PLAY EQUIPMENT INSTALLATION GUIDELINES

FOR

VENTURA UNIFIED SCHOOL DISTRICT
PLAY EQUIPMENT PROJECT

AT

ELMHURST ELEMENTARY SCHOOL
5080 Elmhurst St., Ventura, CA 93003

Prepared By
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Prepared For
Ventura Unified School District
Ventura, CA

Architect Project No. 241012

November 8, 2024

Mound – TK-K Area
Quote # 821-169540A

9/17/2024

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Freestanding - Other

Accessible Scoop Digger
SEAT SUPPORT: Shall be fabricated from 1" X 3" rectangular tubing with 2 3/8"" O.D. galvanized pipe underneath seat for ground post and 1 3/8" stainless steel machined rod for arms. The assembly shall be an all-welded construction.
SEAT AND BACKHOE DIGGER: Shall be cast from high tensile strength aluminum.
GROUND POST: Shall be fabricated of 2-3/8" O.D. galvanized pipe with a stainless steel machined top. The assembly shall be an all-welded construction.
LEFT ARM: Shall be fabricated from 1-1/16" O.D. galvanized pipe and 1" O.D. DOM tubing in an all-welded construction.
RIGHT ARM: Shall be fabricated from 1-1/16" O.D. galvanized pipe, 1" O.D. DOM tubing and 3/16" H.R. steel formed bracket in an all-welded construction.
HORIZONTAL ARM ASS'Y: Shall be fabricated from 1-1/16" galvanized pipe in an all-welded construction.
FINISH: Shall be a bright powder coat finish.
HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.
NOTE: All moving parts shall have oil impregnated bronze bearings.
NOTE: All weights are based on average comparisons of each part.
SPECIFICATIONS: PLAY AND PARK STRUCTURES has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

DuraMax Specifications

General System Specifications:

DuraMax features 3 1/2" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat and utilizing stainless steel tabs on component connections. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Roto-Molded Components

Rain Wheel
Rain Wheel shall be 2-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16” wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).
Back plate is 1/8” H.R. Steel with brass bushing. The Bracket consist of a 5” O.D. Half Clamp made of 3/16” x 3 ½” H.R. Steel, 9 7/8” LG. and a Galvanized Steel Coupling Nut (Galvanized Steel).

Deck Components

Return Step
Return Step
The Return Step shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Return Steps shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

General Specifications of Materials

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal

durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Triangle Transfer Point with Handhold
Triangle Transfer with Handhold
The Triangle Transfer shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Triangle Transfer shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Handhold shall be fabricated from 1 7/8” O.D. x .12” (11gauge) wall and 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Handhold and Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

General Specifications of Materials

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Kickplates
Kickplate measures 9-1/2" x 29", and is cut from galvanneal sheet metal with (4) 7/16" x 1" slotted
holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Rotomolded Components

Activity Panel
Activity Panel shall be 2-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16' wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Other

Small Amaze Activity
Small Activity: The Triangle Housing and Caps shall be injection molded from color impregnated high density polyethylene. The Maze Bubble shall be injection molded from clear ABS plastic. The Echo Chamber, Answer Wheel, Knob and Maze shall be injection molded from color impregnated ABS plastic. The Flat Mirror shall be 1/8" thick Polycarbonate with a mirror finish applied to one side. The Stained Glass shall be 3/16" translucent Polycarbonate

play&park structures®
A PLAYCORE Company

DuraMax Specifications

General System Specifications:

DuraMax features 3 1/2" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat and utilizing stainless steel tabs on component connections. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Deck Components

Kickplates
Kickplate measures 9-1/2" x 29", and is cut from galvanneal sheet metal with (4) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Metal Components

Vertical Ladders
Vertical Ladder shall be manufactured from 1.315” o.d. Galvanized Siderails with 1.029” o.d. Galvanized Rungs in an all welded assembly. Assembly shall be powder coated following the powdercoating specifications outlined herein.

Entry Archway: Entry archway shall be manufactured from a 1.315” o.d. Galvanized formed Archway and 1.315” o.d. Galvanized top and bottom Rails with 1.029” o.d. Galvanized rungs. Entry archway shall attach by means of a 3/16” formed L-Bracket. Archway shall be an all welded assembly and shall be powder coated following the powder coating specifications outlined herein.

Hardware: See existing Specs

Polyester Powder Coating Process: See existing Specs

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

HDPE Components

HDPE Panels
Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

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General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Metal Components

Loop Pole
Vertical Pole Barrier is fabricated from 1-5/16" O.D. , 1-5/8" O.D. galvanized steel tubing, and galvanized tabs, and all welded. The entire barrier is coated after fabrication with a baked on polyester powder-coat finish. Loop Pole consists of a straight 1-5/8" O.D. galvanized steel tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Loops are fabricated from a 1-5/16" O.D. tube bent to form 12" loops and welded to the center pole.

General Specifications of Materials

Rotationally Molded Plastics
All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-

vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

HDPE Components

HDPE Panels
Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Roto-Molded Components

Hurricane Slide
The Extension Platform is fabricated from pre-punched steel sheet 11-gauge thickness with steel flat support bars welded underneath to increase strength. After welding, the entire platform is Plastisol-coated with a thickness of 80 mils min. on top wear surface. Exit Support Bracket is made from 1.315" O.D. 14-gauge galvanized steel tubing welded to 11-gauge steel plate and coated with a baked on polyester powder-coated finish. The one-piece Hurricane Spiral Slide shall be a double wall, one-piece construction of color impregnated rotationally molded linear low-density polyethylene with a 1/4" nominal wall thickness. The slide mast shall be aluminum and permanently molded into the slide during the molding process. The slide shall include a ground socket to receive the mast. Wall Panels are cut from a single sheet of high-density .850" thick extruded solid polyethylene with color molded in and UV-stabilized.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Harmony Music

Presto
Presto Instrument Insert: Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet.

Mallet Package: Shall be an all plastic construction with stainless steel hardware.

Presto Front HDPE Panel and Presto Back HDPE Panel: Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The
material will have a denisty of 60lbs/ftñ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Presto Spacer: Shall be fabricated from 1.315" O.D. x .083 (14 gauage) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate
finish threaded insert. The Presto Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Presto Support Assembly:
Shall be an all welded construction fabricated from 2.375" O.D. x .095" (13 gauge) wall galvanized steel tubing, 3.5" O.D. x .095" (13 gauge) wall galvanized steel tubing, and 1/4" thick laser cut plate. The Presto Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plate steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a
specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

Conga Trio
Conga Triple Front HDPE Panel and Conga Triple Back HDPE Panel:
Shall be precision cut from a single solid sheet fo .750" thick UV-stabilized high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedute C of ASTM

Conga Drum 6, Conga Drum 8, and Conga Drum 10:
Shall be constructed of 6" plastic pipe, 8", and 10" plastic pipe, and molded plastic lid.

Conga Triple Ring Assembly:

Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel. The Conga Triple Ring Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Conga Triple Upright Support:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel The Conga Triple Upright Support shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Spacer with Inserts:
Shall be fabricated from 1.315" galvanized pipe and 1.120" threaded insert. The Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

Sensors

Piano
Piano Panel:
The Piano Panels shall be fabricated from 3/4" high density polyethylene with electronic components contained within water tight low density polyethylene housing.
HDPE Spacer Rings:
The HDPE Spacer Rings shall be fabricated from 3/4" high density polyethylene

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow

dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Harmony Music

Sonata
Sonata Instrument Insert:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet.

Sonata Front HDPE Panel and Sonata Back Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ftñ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Sonata Spacer:
Shall be fabricated from 1.315" O.D. x .083" (14 gauge) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded pipe insert. The Sonata Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein

Small Bracket Plate:
Shall be fabricated from 11 ga. 18" x 1/8" thick stainless steel. The Small Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Long Bracket Plate:
Shall be fabricated from 11 ga. 40"" x 1/8" thick stainless steel. The Long Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Mallet Package:
Shall be an all plastic construction with stainless steel hardware

Sonata Support Assembly:

Shall be an all welded construction fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing, 3 1/2" O.D. x .095" (13 gauge) galvanized steel tubing, 1/4" thick laser cut plate, and 13 ga. 2.375" o.d. galv. tubing. The Sonata Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied
from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

HDPE Components

Patter Path
Pop Pipe Link Frame is fabricated from 3-1/2" O.D., 2-3/8" O.D. galvanized steel tubing with galvanized sheet for flanges. Aluminum Caps are factory riveted with a matching frame color. Entrance Barrier Wall is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing steel welded to yellow-zinc coated 'L'-Fittings and 2 7/8" x 38-1/8" 7-gauge galvanized plate. All metal parts are polyester powder-coated after fabrication. Panel is cut from a solid sheet of high-density .750" thick extruded polyethylene with color molded in and UV-stabilized.

General Specifications of Materials

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Therapeutic Swing

2-5 Made-for-Me Swing Seat

Harness, brace and seat designed specifically for the 2-5 age group. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

Arch Swing Structures

Arch Swing - (3 1/2" O.D. Toprail)
Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

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OWNERS MANUAL



Visit www.playcore.com/shipment or use the QR code to give feedback about the condition of the shipment, quality of the product, and installation feedback.
Please include pictures.

This document includes;

- Warranty Information
- Ground Plan
- Hardware Listing
- Assembly and Installation Instructions

IPEMA MEMBER · ASTM INTERNATIONAL · ISO 9001

playandpark.com | 800.727.1907

play&park structures®

A PLAYCORE Company

Dear Play & Park Customer,

Thank you for choosing to purchase and install a Play & Park Structures play system. We appreciate the confidence and trust you have placed in our company.

Your Play & Park Structures Installation Guide is enclosed. We designed this manual specifically for the products you have purchased. Included in this manual you will find the following documents:

- Product Installation Instructions
- 2-D Top View Drawing specific to your structure
- Ground Plan

If you have any questions concerning your new equipment, you can reach your recreation consultant by calling 1-800-727-1907. To contact a Play & Park Structures customer service representative, you may call 1-888-404-5737 or reach them online by sending an email to: customerservice@playandpark.com

For more information on Play & Park Structures products, please do not hesitate to call us, or visit us online at www.playandpark.com.

Thank you for your business; we look forward to working with you on future playground equipment projects!

Sincerely,

Play & Park Structures

Safety Guidelines

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures STRONGLY recommends that you follow these Safety Guidelines in conjunction with conducting periodic maintenance inspections using the accompanying Playground Maintenance Checklist.
When installing, always consider local conditions and codes. Good common sense works hand-in-hand with the instructions.

LOCATING YOUR PLAY STRUCTURE

Comply with the following when choosing the location for your new equipment:

- Equipment should be placed to eliminate conflicting traffic patterns. As a general rule, allow at least 6' of free space around the entire structure, EXCEPT for slide exits, which require a distance X equal to highest point of sliding surface with a minimum of 72" and maximum of 96" from the edge of the slide. Example: a Slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of and behind them for safe circulation. Example: a Swing with a 8' high beam requires 16' of free space in front, and another 16' behind it, for a total of 32'. These minimum areas should be filled with the appropriate resilient surface material. See below for resilient surfacing recommendations.
- If your equipment includes any metal slides, they should be positioned in a shaded area, or at least positioned to avoid the sun's direct rays.
- Never overlap the safety zones of adjacent equipment. All separate play equipment must have its own safety zone, and these cannot overlap. So, if you have an existing structure with a slide exit oriented toward your new one, add your minimum safety zone to that of the existing slide to determine how far away you need to be.
- Never install playground equipment near, around, or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

CHOOSING RESILIENT SURFACING MATERIAL

Playground equipment must be installed on a soft, resilient, energy-absorbing ground surface.
NEVER INSTALL PLAY EQUIPMENT ON CONCRETE, ASPHALT, OR GRASS. A fall on a hard surface from even a low platform of 3' high can result in serious injury to the user. Refer to CPSC and ASTM F1292 for recommended surfacing depths and requirements.

Tip: If your surfacing material is of the loose variety, checking for proper depth over time can be made easy by applying a non-removable florescent tape or paint in a bright color at the proper level on each post. Thereafter, as the resilient surfacing material compacts or washes away, the person responsible for regular maintenance inspections can easily see it must be replenished as the marks become visible.

AFTER THE EQUIPMENT IS IN USE

- Never add components not intended for use with this product.
- Never install other play equipment, fencing, landscaping, etc., which encroach upon the safety zones of this equipment.
- Check to make sure that there are no overhead obstructions within the use zone of the playground equipment that are not part of the play structures (example: tree limbs). Any overhead obstructions should be at least 84" above each platform or designated play surface or 84" above the pivot point of swings. All overhead utility line clearances above the use zone area should comply with all local, state and national codes.
- Regularly inspect and maintain your playground equipment and its surrounding area. Proper maintenance of Play & Park Structures equipment includes using the accompanying Playground Maintenance Checklist to identify areas requiring repairs or replacement, and barricading the equipment to prevent use while corrections are being made.
- If your playground equipment includes any wood components, bolts may need to be re-tightened after initial use due to wood shrinkage. Check and re-tighten all fasteners after the first few days of use, and again after the first 3 weeks of use. Thereafter, exercise normal maintenance procedures. Using a thread-locking compound on the threads of bolts can help prevent persistent loosening.
- 'S' hooks must be completely closed. Replace all worn 'S' hooks, and never re-use 'S' hooks.
- Pipes should never be allowed to turn. In the case of wood playground equipment, make sure all collars are snugly flush against the inside of posts with set screws tightened and wood screws flush against the outside of the collar, and all flat head bolts and set screws are tight. In the case of steel playground equipment, check set screws for tightness.

For specific information regarding playground safety and your responsibilities as the owner of this equipment, please contact the Consumer Product Safety Commission (CPSC), Washington, DC. for the latest guidelines for your play area and this equipment.

If any conditions or damages are discovered in violation of these Safety Guidelines or the accompanying Playground Maintenance Checklist, the play equipment should be barricaded immediately and children should not be allowed to use it until the conditions are corrected.

Introduction to Installation Instructions

Revised 03.29.16

IMPORTANT! Please read the entire Installation Instructions packet before beginning the installation.

Play & Park Structures has designed the SuperMax, DuraMax, totmax, Skyline, Boulderscapes and Horizons Play Systems to take advantage of all Consumer Product Safety Commission (CPSC) Guidelines and ASTM standards in force at the time of purchase in an effort to help reduce the chance of playground accidents. However, because studies have shown most playground injuries result from accidental falls, you, as the new owner of this equipment, are responsible for providing and adequately maintaining ***resilient play surfacing*** under and around all playground equipment. Please refer to the accompanying Safety Guidelines as well as CPSC guidelines and this document for examples of such surfacing.

We would like to provide the following suggested guidelines for your play environment:

- Refer to the Footing Diagram and note the Minimum Area Required shown for this structure. This area must be filled with adequate resilient play surface material, and must be clear of all obstacles, including but not limited to trees, curbing, sidewalk, fence, other play equipment, rocks and landscaping, etc.

- Acceptable play surfaces include sand, wood mulch, fine gravel or ground belt-less tires, if installed at the appropriate depths per CPSC guidelines for play surfacing.

- When using sand, wood mulch, or ground belt-less tires, a minimum of 6" depth is recommended by the CPSC. Play & Park Structures recommends an additional 4", for a total of 10", to combat the fast compacting characteristics of these materials. Surfaces must be checked at least weekly for compacting, which reduces resiliency significantly.

- Paved surfaces such as asphalt, concrete, gravel or sod are not acceptable for use under playground equipment, or anywhere within the stated Minimum Area Required.

- Close supervision of children playing on or around the structure is strongly recommended, along with classroom and/or home instructions on acceptable behavior on the playground equipment. The full supervision of playgrounds is the responsibility of the owner once the play structure has been properly installed.

TOOLS REQUIRED:

Play & Park Structures supplies the special bits required to fasten the "tamper-resistant" bolts. You will need common tools such as wrenches, Allen key set, drill, string line, level, mallet, shovels, post hole digger, pry bar, washable felt tip marker and a tape measure.

INSTALLATION GUIDELINES:

1. Compare all parts received to the packaging list. Notify Play & Park Structures immediately of any missing parts. We are not responsible for parts discovered missing over 10 days after receipt of the shipment.

2. Refer to your Footing Diagram to ensure this structure will fit into your actual site area. Note the Minimum Area Required measurements to determine clear space required. A minimum of 6' clearance is required between any obstacles and your structure. EXCEPT for slide exits, which require a distance X equal to the highest point of sliding surface with a minimum of 6' and a maximum of 8' from the edge of the slide (example: A slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of its exit).

3. Site selection should include considerations of what is a safe and appropriate play area:
   a. A level and clear site is ideal, free of power lines or electrical equipment.
   b. Do not install play equipment near any bodies of water.
   c. If adjacent to a street with traffic, ensure adequate fencing acts as a barrier to children running into danger.

4. Site layout should include accurate measurement and marking of all footings prior to any installation. Use the dimensions shown between footings on the Footing Diagram to plot out the actual footprint of the play structure before doing any digging. Also, locate any free-standing play equipment in the same way, providing the necessary clearance between the equipment as well as any fences, trees, etc. Ensure at this time that you have enough total space for the equipment to be installed.

5. Excavate holes as shown in the Footing Diagram using a string line. An optional string line level is very helpful. If a level and clear site is not possible, adjust the depth of the footings to maintain a minimum depth of 18 in. for support posts at the lowest grade. NOTE: if soil conditions are very loose or otherwise unstable, a larger diameter footing may be required. Consult with local contractors for appropriate recommendations.

6. Begin your SuperMax, DuraMax, totMax , Skyline, Horizons, and BoulderScapes Play Systems installation by erecting the decks as shown within the following instructions.
   IMPORTANT: Do not concrete product until installation is complete!
   Once all decks are installed, components such as slides, climbers, etc., can be connected per their respective assembly instructions. Note that connecting components between decks such as Horizontal Ladders, Crawl Tunnels, Trapeze Beams, etc., should be installed concurrently with the decks to ensure they meet accurately.

7. CPSC guidelines mandate that there should be no gaps present in the playground equipment which fall between 3 ½" and 9". The positioning of certain components by the installer can affect this criteria, so you should always measure distances created when attaching components by the installer, which can cause entrapment of a child using the equipment. Also, ASTM requires that no more than 2 threads of bolt can protrude from the nut. Any excess threads should be filed down and made smooth to the touch.

8. When concrete is poured, be sure to keep the top 4" below the grade, and sloped away from the post to promote good water drainage. Wash off any concrete, which may have splashed onto the post before it dries. Allow all concrete to harden a minimum of 48 hours before using equipment.

SAFETY DURING INSTALLATION:

1. Before doing any excavation, inquire about any existing underground utilities.

2. Do not leave the job site unattended without making sure that all fastening hardware on all equipment are tightened and all Drive Rivets are in place to prevent clamps from moving, in case of unauthorized use. **PLAY & PARK STRUCTURES CLAMPS ARE NOT DESIGNED TO SUPPORT HUMAN WEIGHT WITHOUT THE DRIVE RIVETS INSTALLED, AND SUCH USE COULD CAUSE INJURY TO THE USER AND/OR DAMAGE TO THE EQUIPMENT.** It is also strongly recommended that all installation areas be roped off with clearly marked warning signs posted. Any open footings should be covered with plywood or other suitable material. Even during installation, it has been found that children will use the unattended equipment, thereby risking accidents.

3. The installation area should remain roped off for at least 48 hours after the last concrete footer is poured. Children should not be allowed to use the equipment during this period so that concrete has a chance to fully set.

4. Do not attach swing chains, trapeze rings or similar moving components until after all construction is complete and resilient surfacing material has been installed. Remember that any equipment, which appears to be complete and functional will invite unauthorized use regardless of its actual state of readiness.

Finally, if you should have any questions regarding the proper installation of this equipment, please contact Play & Park Structures at:

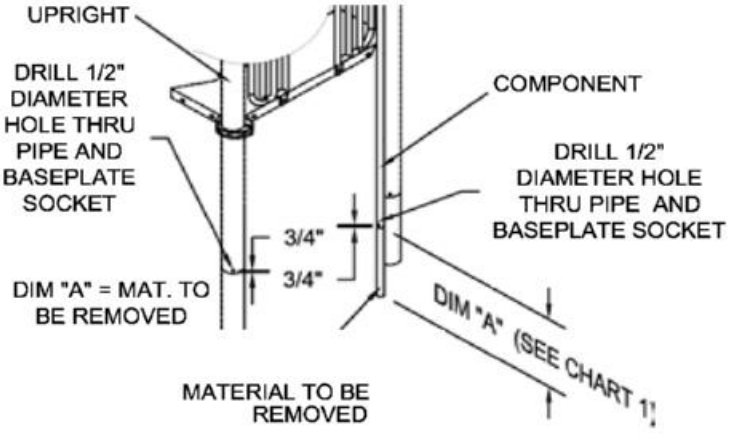
544 Chestnut Street, Chattanooga, TN 37402
TOLL Free: 800.727.1907 FAX: 423.425.3172
EMAIL: customerservice@playandpark.com
Visit our website: www.playandpark.com

play&park structures

60855 SURFACE MOUNT INSTALLATION INSTRUCTIONS FOR PARK STRUCTURES

ISSUED/REVISED: 08/07/14

NOTE: 2", 8", 10" LENGTH INDICATES THE SURFACING DEPTH. ALL COMPONENTS ARE SHIPPED AS STANDARD 30" INGROUND LENGTH. (20" DEEP HOLES & 10" SURFACING)



IMPORTANT: CHECK ALL GROUND MEMBER LOCATIONS TO COMPENSATE FOR SLOPE ***BEFORE*** CUTTING!

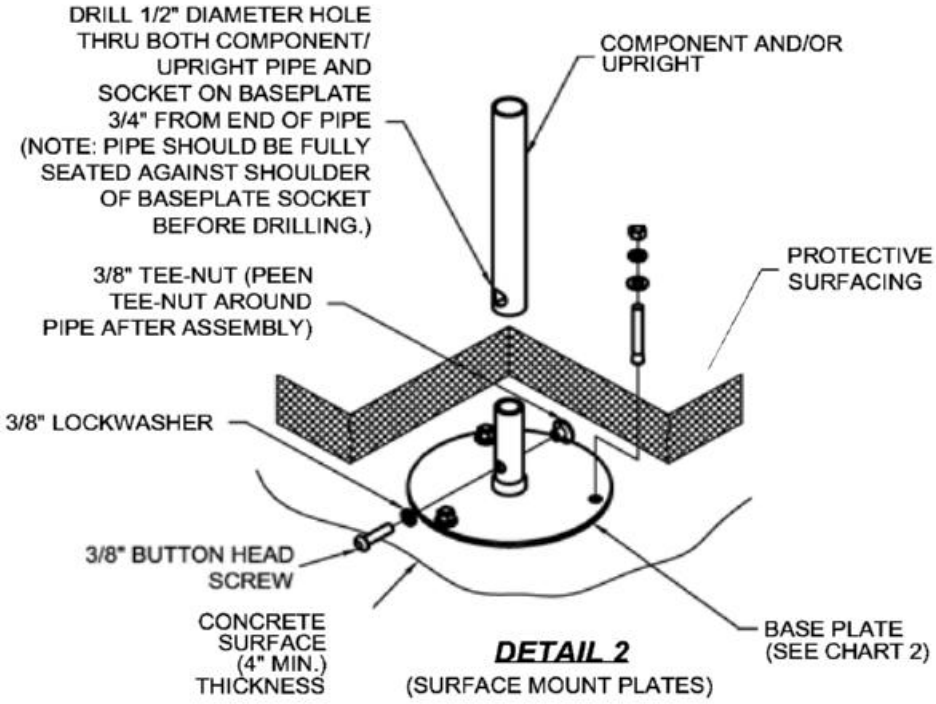
CHART 1

SURFACING DEPTH	MATERIAL TO BE REMOVED	
	W/OUT EXT.	W/6" EXT.
2"	28 11/16"	22 11/16"
8"	22 11/16"	16 11/16"
10"	20 11/16"	14 11/16"

NOTES:
1. DIM "A" = MATERIAL TO BE REMOVED.
2. SOME INGROUND COMPONENTS REQUIRE EXTENSIONS. REVIEW YOUR STANDARD INSTALLATION SHEET IF EXTENSIONS ARE REQUIRED. ADJUST MATERIAL TO BE REMOVED ACCORDINGLY.
i.e. A COMPONENT REQUIRING 6" EXTENSIONS, AND IF SURFACING DEPTH IS TO BE 2", MATERIAL TO BE REMOVED WILL BE 22 11/16"

DETAIL 1

(FOR SURFACE MOUNT INSTALLATIONS)

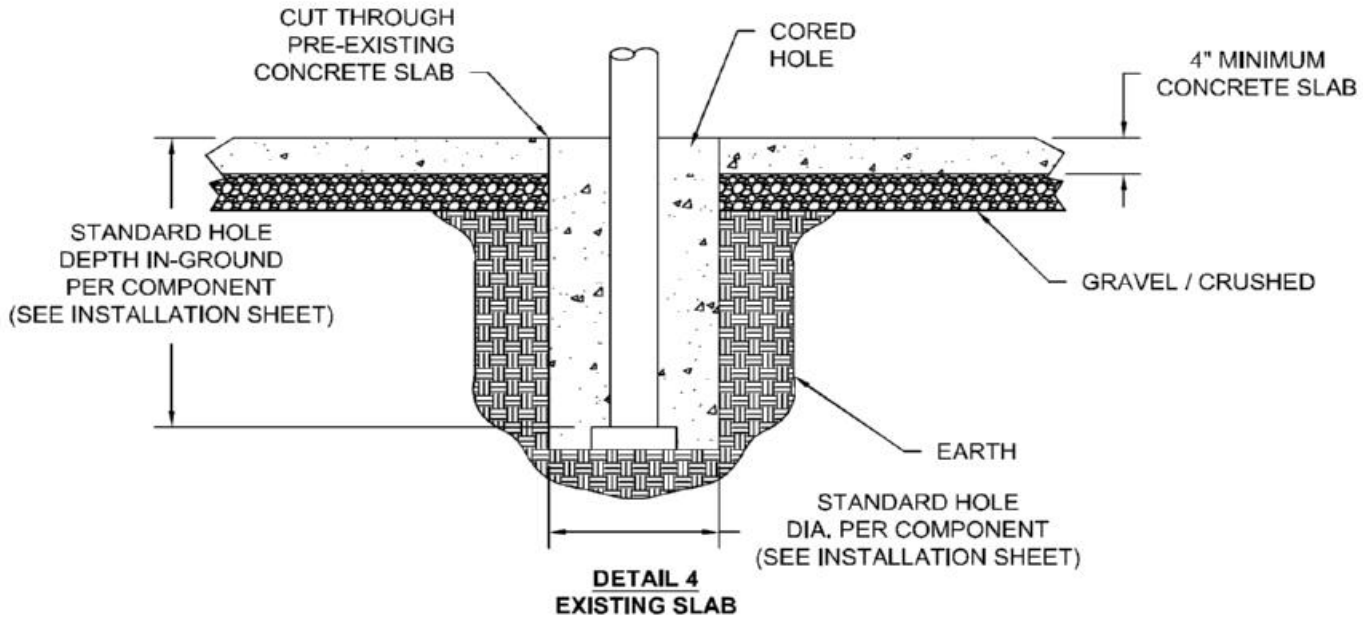


DETAIL 2

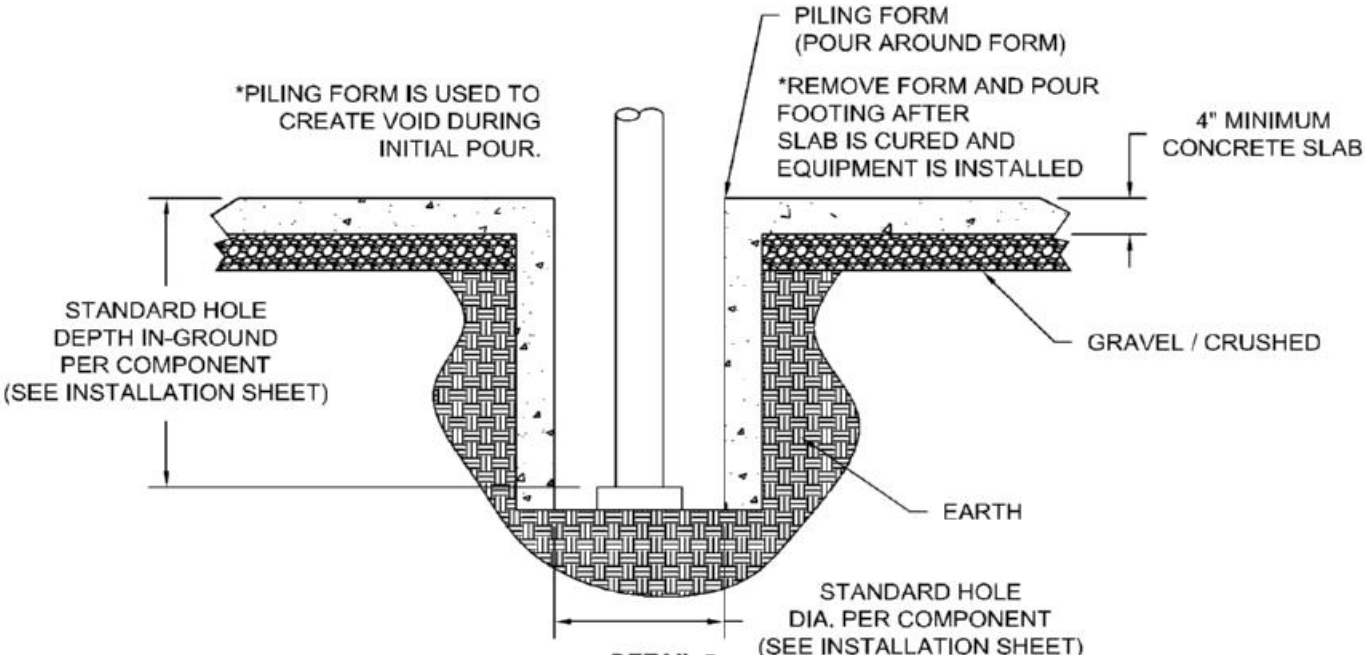
(SURFACE MOUNT PLATES)

CHART 2

NUMBER	O.D.	BASE PLATE
404765	1.029"	404764
60855	1 5/16"	152850
60856	1 5/8"	152851
60857	1 7/8"	152852
60858	2 3/8"	152853
60859	2 7/8"	152854
60860	3 1/2"	152856
60861	5"	152855



DETAIL 4
EXISTING SLAB



DETAIL 5
NEW SLAB

SURFACE MOUNT INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Concrete requirements for Suface Mount shall be 4" minimum thickness w/ 3000 psi.
3. For Surface Mount, remove required length of component and/or upright as indicated in **DETAIL 1**. See ***CHART 1*** for the material length to be removed. (Required for 2", 8" or 10" surface mount only.) ***Note:*** Debur and remove any sharp edges on part after cut is made.
4. Drill 1/2" diameter hole thru component/uprights and baseplate socket 3/4" from end of pipe. The pipe should be fully seated against neck of socket before drilling holes.
5. Attach Component to base plate as shown in **DETAIL 2.** See ***CHART 2*** for the specific base plate required for the diameter pipe being used. (Required for 2", 8" or 12" Surface mount only.)

IMPORTANT: Some components such as slides, chinning bars, nets, climbers, etc. may require "cored" holes to help eliminate movement when installed. Refer to Ground Plan configuration to determine if "cored" holes are required.

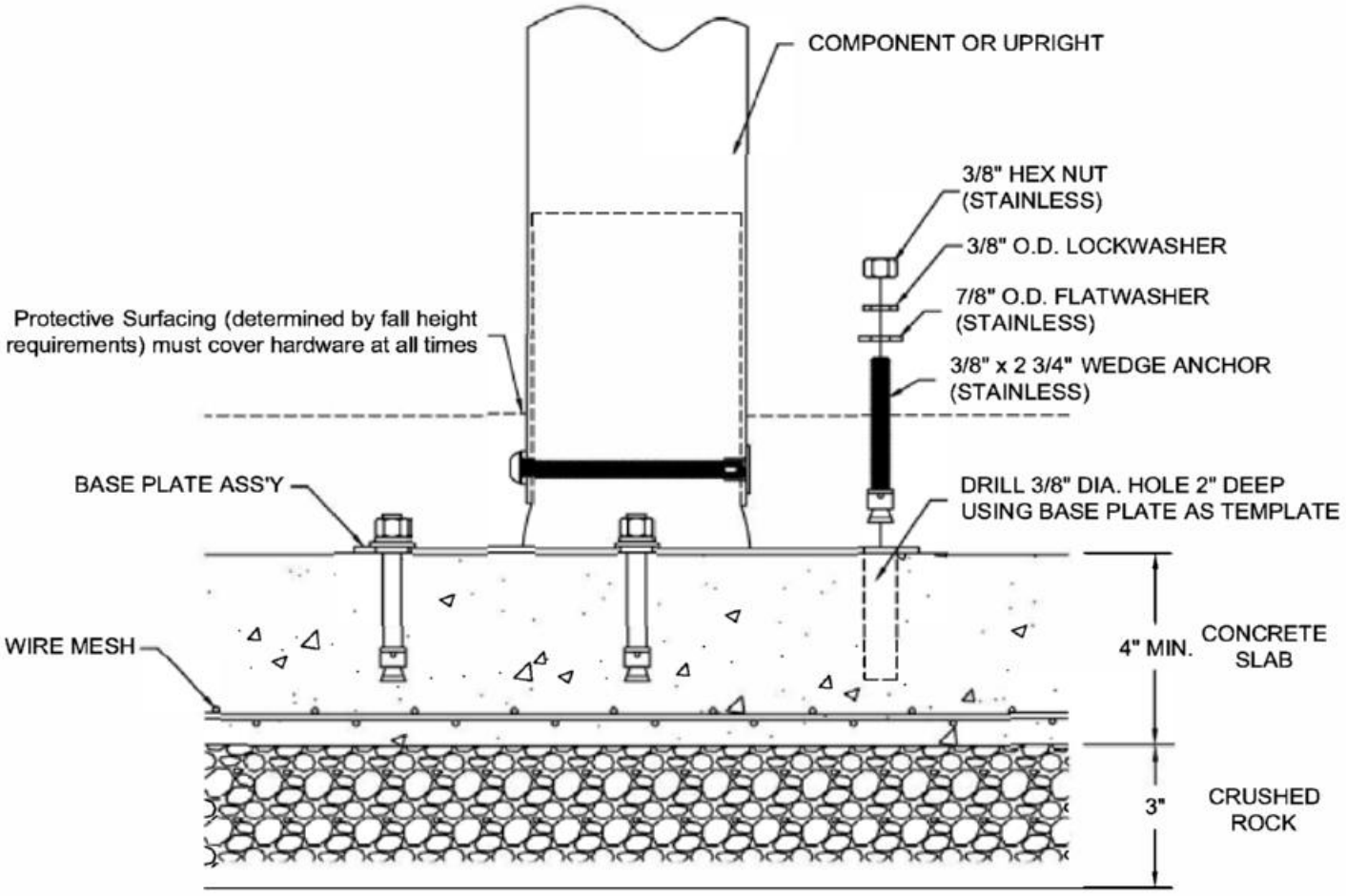
NOTE: If concrete slab is pre-existing and a cored hole is required it must be drilled through exisitng concrete to allow for concrete footing. Review your standard installation sheet for correct size and location of cored hole. See Detail 3.

NOTE: Cored holes can be created prior to concrete pour by using piling forms to create a void when pouring. See Detail 4.

NOTE: If a base plate interferes with an insert required for a below deck component that base plate will require a notch to be applied in the field.

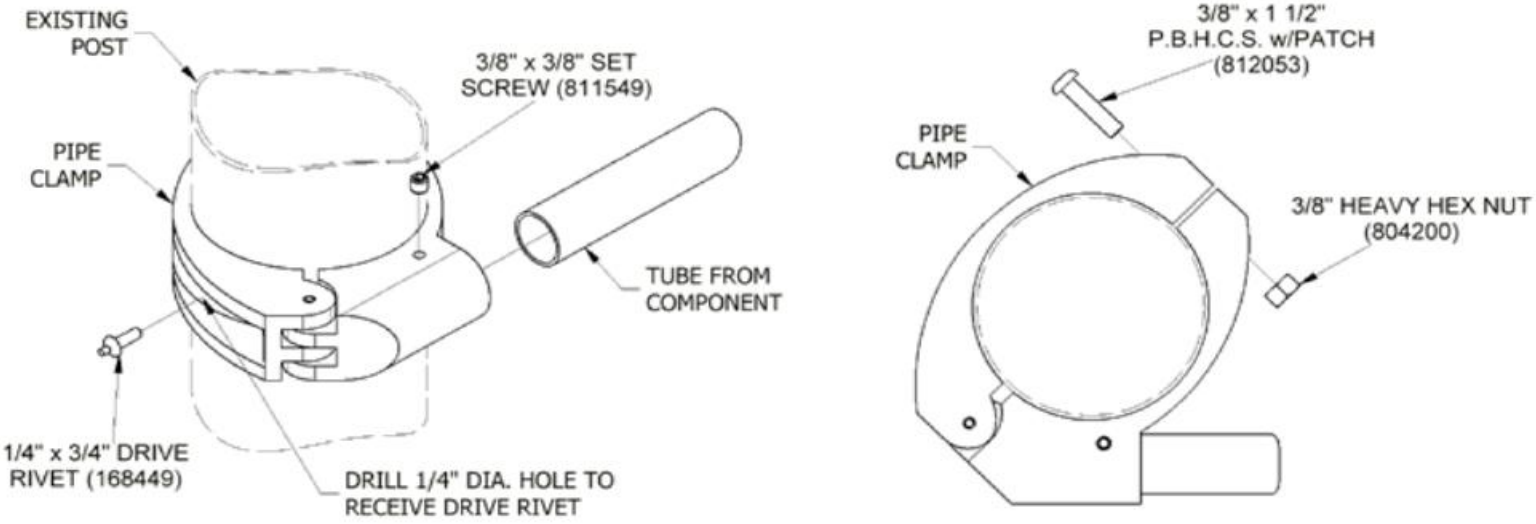
CONCRETE SPECIFICATIONS

1. Depth of concrete must be 4" minimum with wire mesh reinforcement.
2. Base shall be 3" crushed rock over compacted subgrade.
3. Minimum 7 days cure-full cure after 28 days.
4. Concrete rating shall be 3,000 PSI (minimum), 28 days 3,500 PSI.



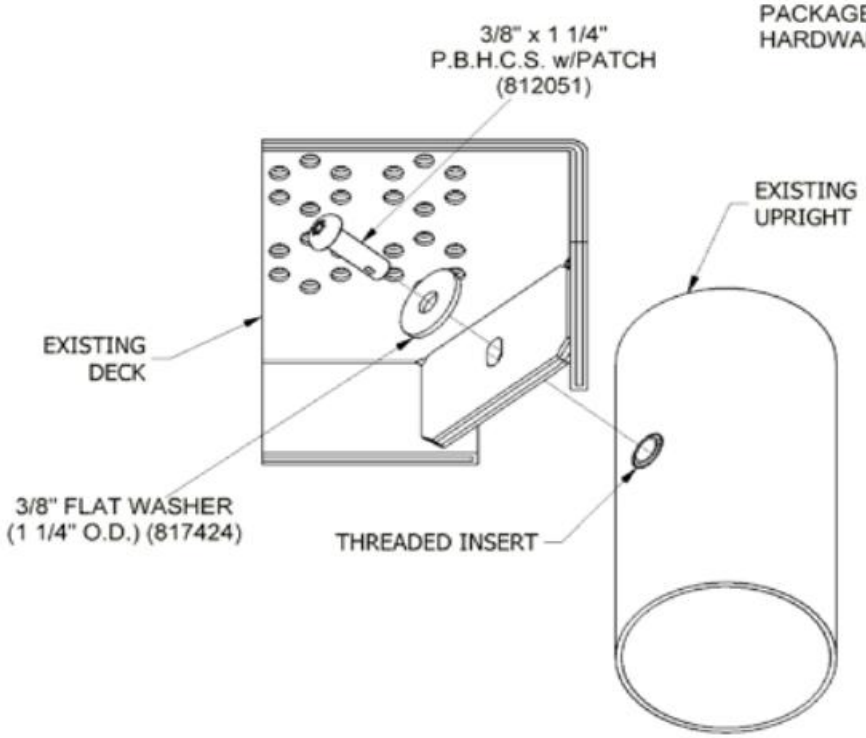
DETAIL 3
SIDE VIEW OF SURFACE MOUNT

Clamp Assembly Details



TYPICAL DURAMAX PIPE CLAMP ASSEMBLY

NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

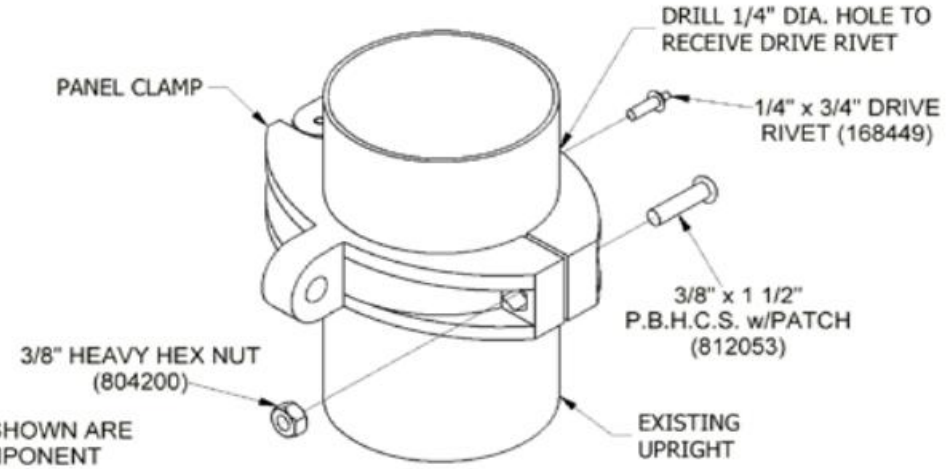


TYPICAL DURAMAX DECK CONNECTION

Issued/Revised: 4/4/2016

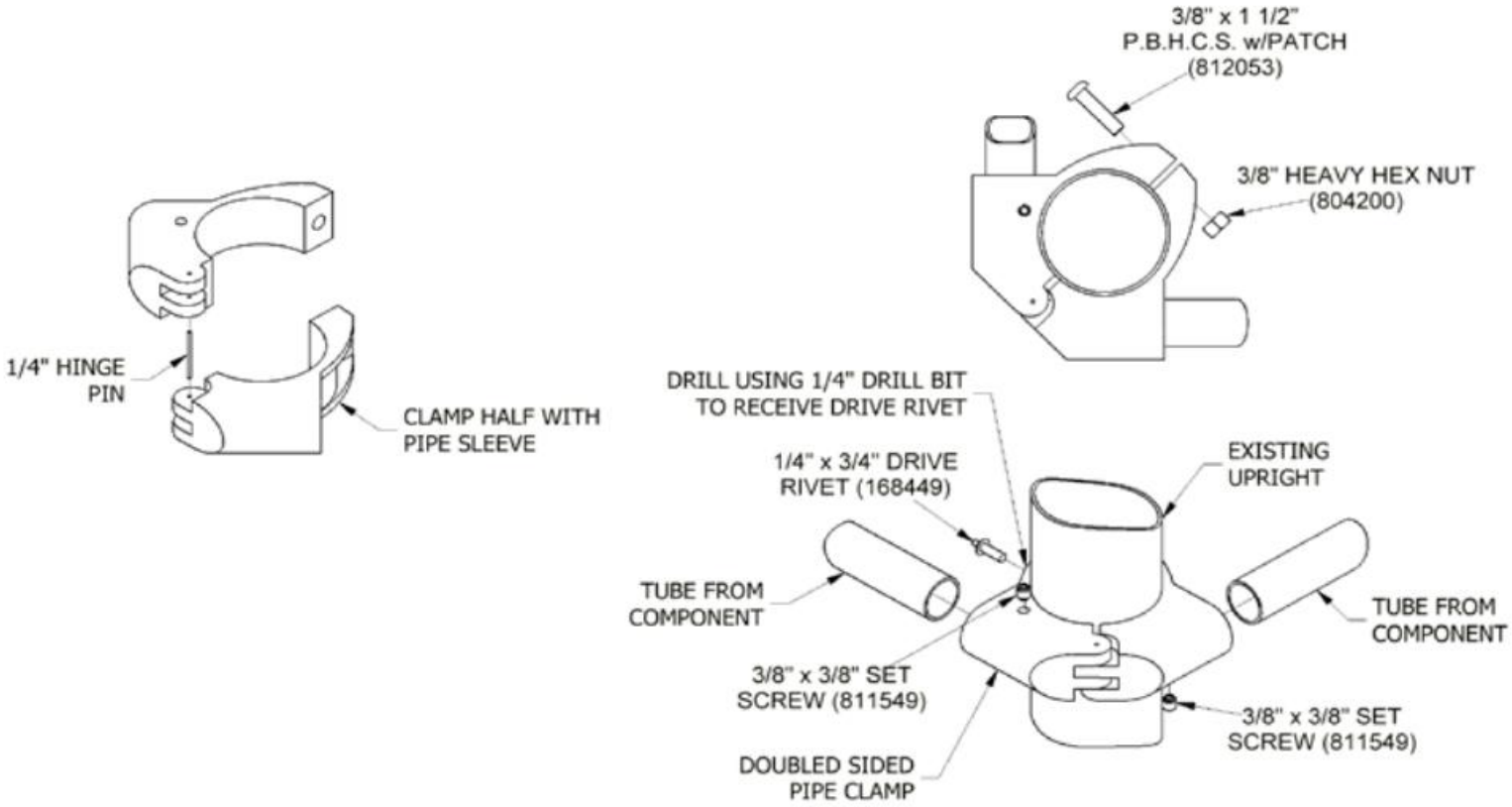
SHEET 1 OF 2

Clamp Assembly Details



NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

TYPICAL DURAMAX PANEL CLAMP ASSEMBLY



DURAMAX APPLICATION: To attach two components at 90 degrees to each other on the same square deck. Use when clamp conflicts do not allow you to use seperate clamps for each component.

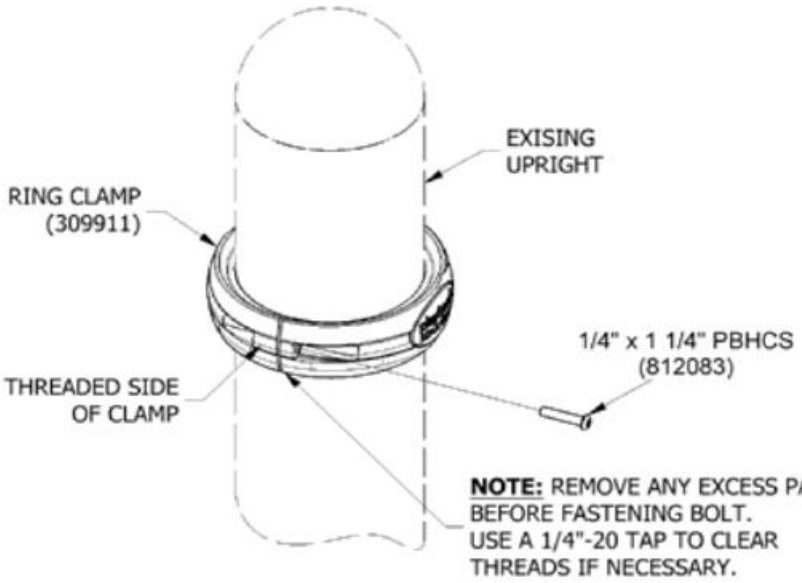
ASSEMBLY INSTRUCTIONS: Use two regular Pipe Clamps and remove hinge pins. Select clamps with pipe sleeves to create the Double Sided Pipe Clamp. Insert hinge pin back into clamps as shown above.

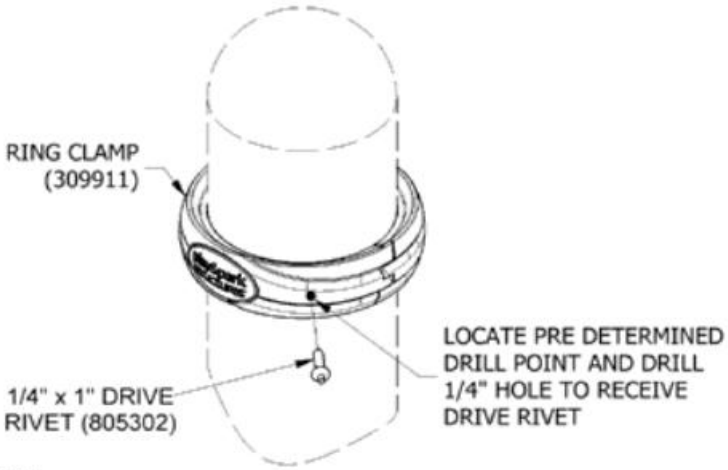
TYPICAL DURAMAX DOUBLE SIDED PIPE CLAMP ASSEMBLY

Issued/Revised: 4/4/2016

SHEET 2 OF 2

Clamp Assembly Details





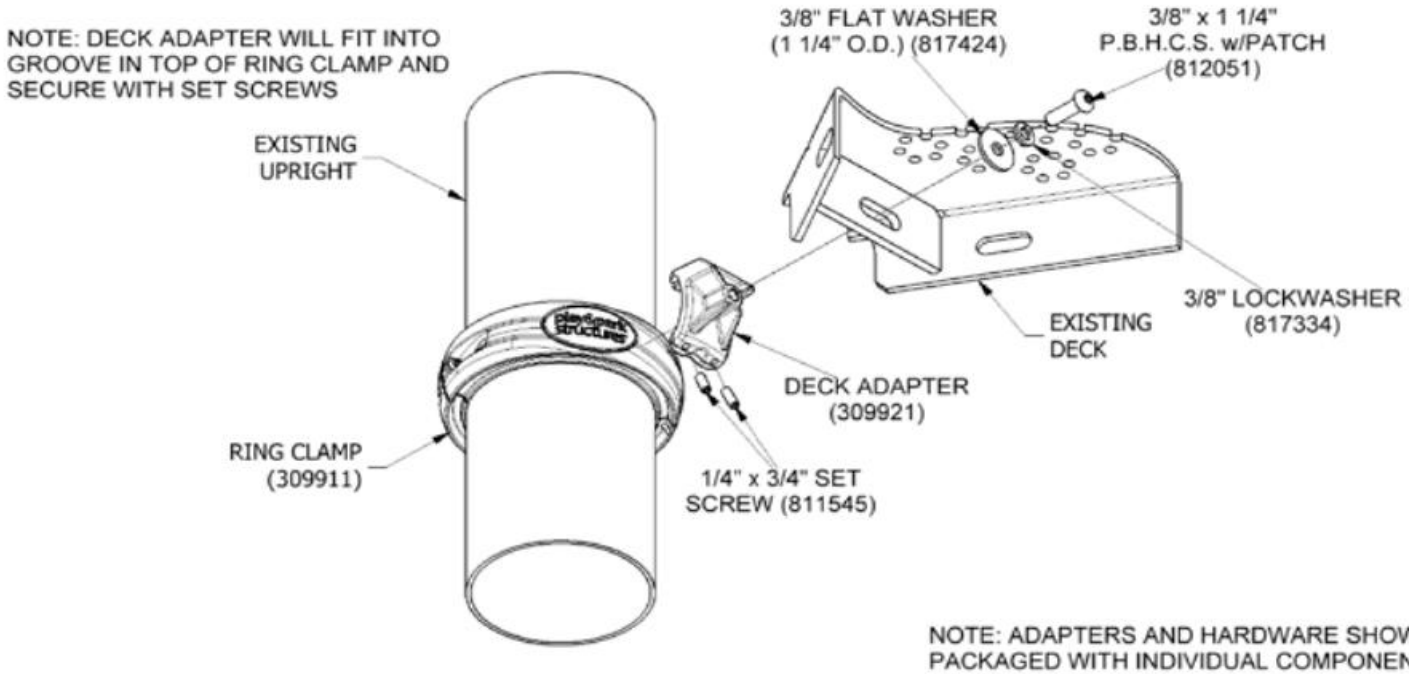
NOTE: THE USE OF LOCTITE IS IMPORTANT.

IMPORTANT: ORIENTATION OF BOLT IS CRITICAL.

NOTE: THE RING CLAMP WILL HAVE A SMALL GAP AT THE CONNECTION POINT AFTER ATTACHED. THE GAP IS DESIGNED FOR DRAINAGE AND TO ENSURE A PROPER FIT.

NOTE: MAKE SURE THE PLAY & PARK STRUCTURES LOGO IS ORIENTED CORRECTLY AND VISIBLE FROM GROUND LEVEL.

TYPICAL SUPERMAX RING CLAMP ASSEMBLY



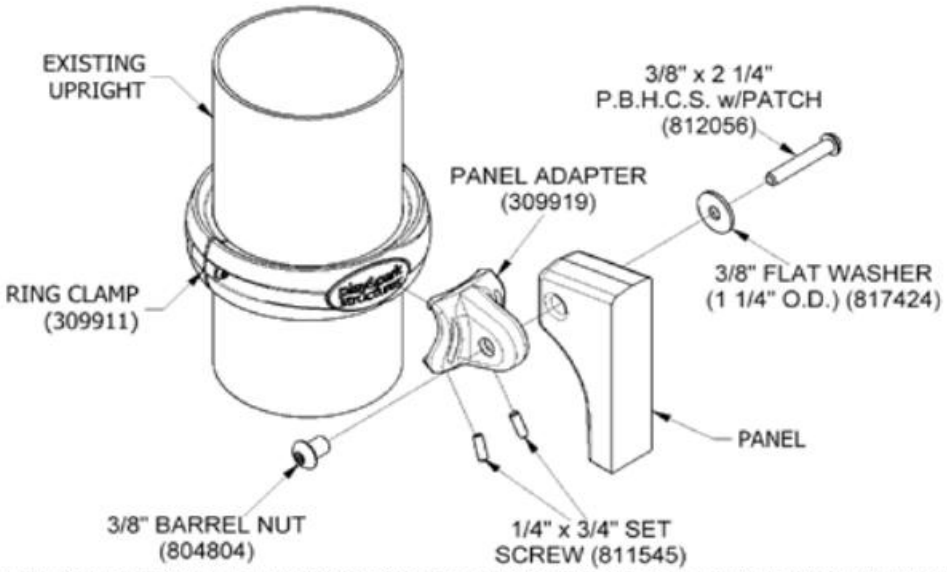
NOTE: ADAPTERS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES

Issued/Revised: 4/11/2016

TYPICAL SUPERMAX DECK CONNECTION

SHEET 1 OF 2

Clamp Assembly Details

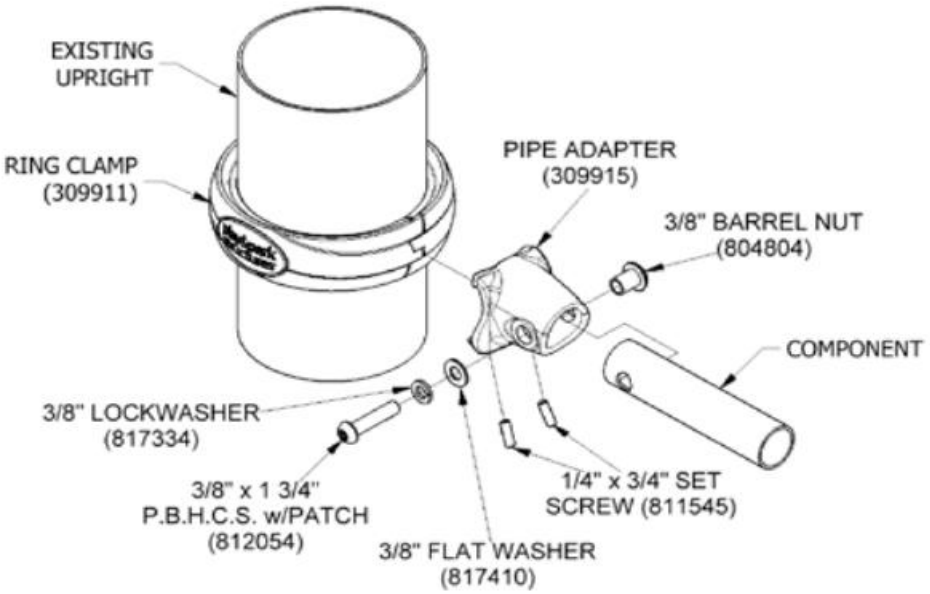


NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.

TYPICAL SUPERMAX PANEL ADAPTER ASSEMBLY

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



TYPICAL SUPERMAX PIPE ADAPTER ASSEMBLY

Issued/Revised: 4/11/2016

SHEET 2 OF 2

DETAILED MAINTENANCE RECORD

play&park structures
A PLAYCORE Company

Play Area Site Name _____

Play Area Location or Description _____

Date _____ Inspector _____

Item Number	OK	Problem	Solution	Date Repaired	Initials

PLAYGROUND MAINTENANCE CHECKLIST

play&park structures
A PLAYCORE Company

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures recommends the following maintenance procedures be followed:

On a daily basis: A responsible individual should conduct a brief visual check for structural defects, signs of vandalism and litter of foreign matter that needs to be removed.

On a weekly basis: A responsible individual should complete this checklist. Any required repairs should be detailed on the separate **Detailed Maintenance Record**, and once they are completed, both should be filed for future reference. A separate file and form should be kept for each play structure at each location.

IMPORTANT: Always refer to - and comply with - the separate *Safety Guidelines* and ASTM and CPSC Guidelines. The play structure(s) should be barricaded so that it cannot be used while repairs are being completed.

	Item to be Checked (use the following page to record a brief description of the necessary repairs)	**OK**	**Repairs Required**	**Date Repaired**
A.	**Play Structures in General**			
	Post and component footings are not exposed, cracked or loose			
	1. Clamps show no signs of slippage, cracking, or failure			
	2. Clamp drive rivets and hardware are secure			
	3. Welds are intact and free of cracks			
	a. Slide and Deck Enclosures			
	b. Overhead Activities			
	c. Climbers			
	4. No rust or corrosion			
	5. No splintered, cracked, gouged or otherwise deteriorated plastics; check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create an entrapment as specified on ASTM-F-1487 section 6.			
	6. No scratched, chipped, or peeling paint			
	7. Metal parts show no visible cracks, bending, warping or breakage			
	8. No missing bolts, nuts, etc.			
	9. All bolts, nuts, and fasteners are tight			
	10. All joints are secure (pay special attention to sectional slides, flush mounted decks, and pipe connections)			
	11. All swivels, bearings, grease fittings, and moving parts are well lubricated and not excessively worn (pay special attention to tire swings, tot swings, strap swings, track rides, and trapeze rings)			
	12. No broken or missing parts			
	13. No sharp edges or unsafe protrusions (check metal corners, bolts, etc.)			
	14. No exposed mechanisms, junctions of moving parts or components that will pose possible pinch or crush points			
B.	**Play Events**			
	1. Plastic is not cut or cracked			
	2. All slide supports/anchors are intact and secure			
	3. All 'S' hooks are closed and not excessively worn			
	4. Clatter bridge chain and connections are not excessively worn, especially at connection points			
	5. Connectors and Chain have free movement			
C.	**Surrounding Area**			
	1. Resilient surfacing material is not scattered or excessively worn			
	2. Resilient surfacing material is adequately deep and retains its fall absorbing abilities as specified at the time of installation			
	3. Border around playground is in good condition and has not come loose			
	4. No roots, rocks, or other objects that may cause a tripping or injury hazard			
	5. Area is clean of litter (no broken glass or bottles, etc .)			

This equipment is designed for children 2-5 or 5-12 years old

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY

PARTS LIST								
DESCRIPTION	7200	7201	7202	7205	7206	7207	7208	PART NUMBER
ANSWER WHEEL ASS'Y	1	0	0	0	0	0	0	316045
MAZE ASS'Y	0	1	0	0	0	0	0	316049
ECHO CHAMBER ASS'Y	0	0	1	0	0	0	0	316047
STAINED GLASS-YELLOW	0	0	0	1	0	0	0	316051
HYPNO WHEEL ASS'Y	0	0	0	0	1	0	0	316048
STAINED GLASS-GREEN	0	0	0	0	0	1	0	316050
BUBBLE MIRROR	0	0	0	0	0	0	1	316046
TRIANGLE HOUSING	2	2	2	2	2	2	2	**
SCREW CAP	6	6	6	6	6	6	6	**
SCREW, FLAT WASHER, RETAINER	3	3	3	3	3	3	3	**

Unless Otherwise Specified, All Units of Measure are Each
***Included in Assembly*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

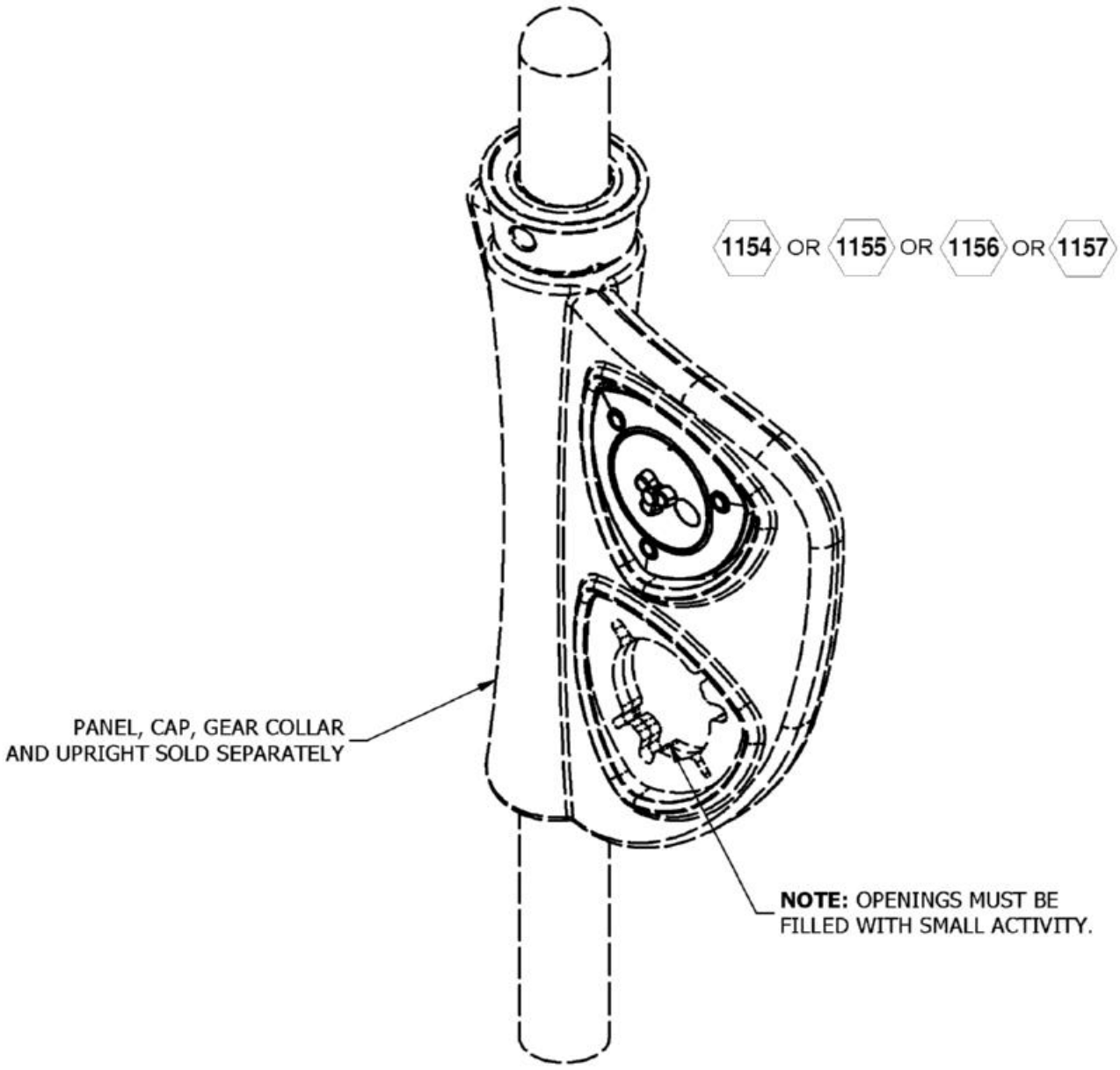
IMPORTANT- ALL OPENINGS MUST BE FILLED WITH A SMALL ACTIVITY.

1. Locate Panel to receive small activity.
2. Place Triangle Housing into small opening in panel. Housing is keyed so that bosses and fins fit into opening. Rotate Housing if needed until it fits into the opening.
3. Take the remaining Housing and place activity so that notches in activity align with ribs on Housing. Refer to Details 1154, 1155, 1156, and 1157 for specific activity. **NOTE:** Remove any protective film that may be on Activity Panel before assembly.
4. Align Housing with openings in Panel and attach the two housings together. Cover with Screw Cap as shown in Details Details 1154, 1155, 1156, and 1157.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY

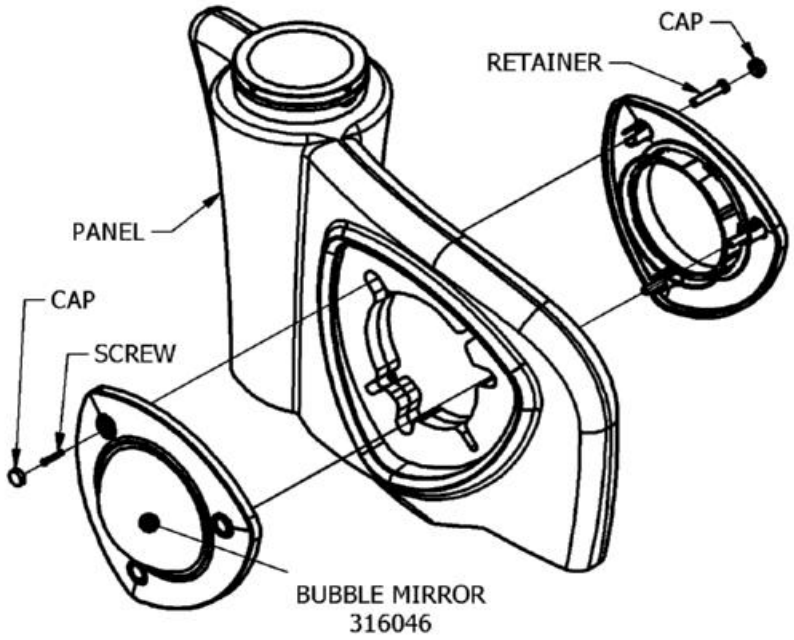


FINISHED ASSEMBLY
7200 VERSION SHOWN

⬡ = INSTALLATION DETAIL

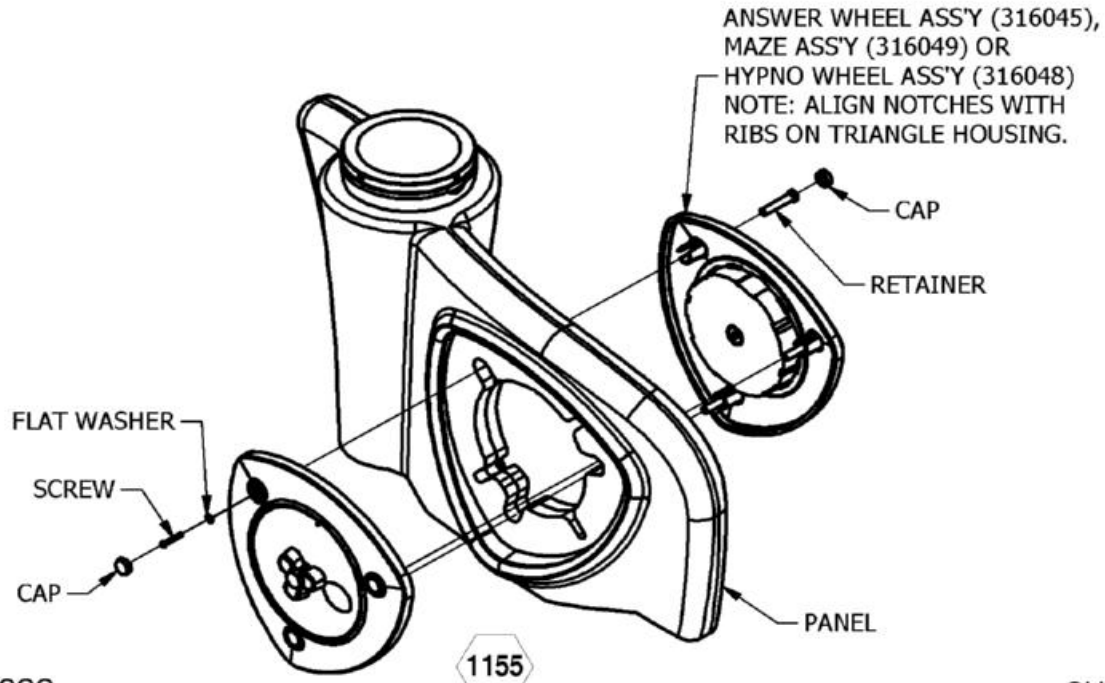
Issued/Revised: 6/21/2022

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY



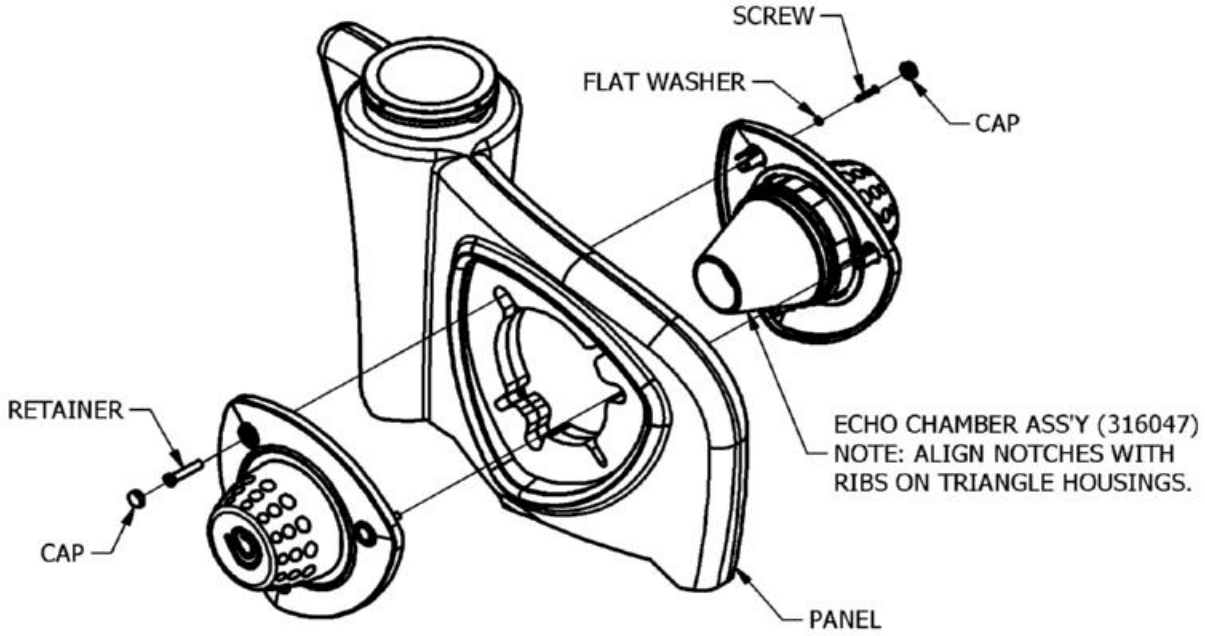
1154

NOTE: IF PRESENT, REMOVE ANY PROTECTIVE FILM THAT MAY BE ON THE ACTIVITY BEFORE ASSEMBLING.



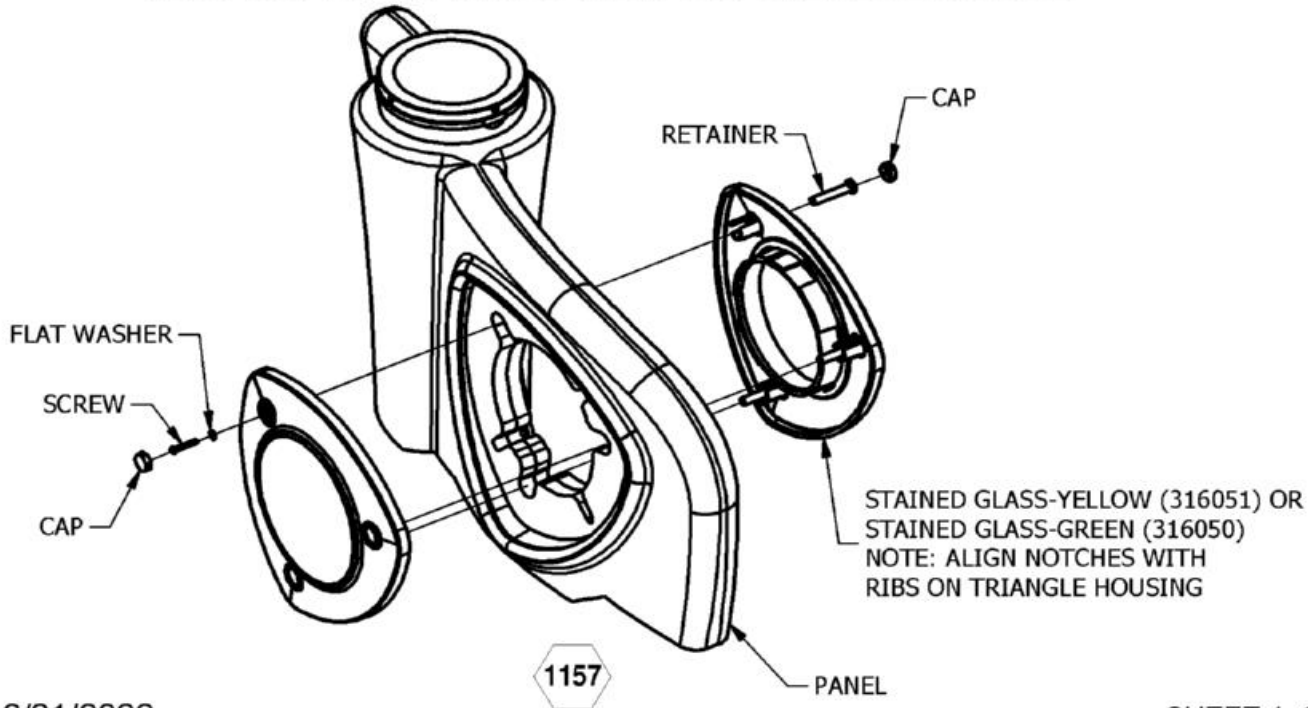
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7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY



1156

NOTE: IF PRESENT, REMOVE ANY PROTECTIVE FILM THAT MAY BE ON THE ACTIVITY BEFORE ASSEMBLING.



1157

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN

Parts List			
DESCRIPTION	7343	7344	PART NUMBER
SPACER	6	0	212416
PIANO SENSOR 20" ROTOGEN	1	0	218237
PIANO SENSOR w/BACK 20" ROTOGEN	0	1	218238
HARDWARE COMPLETE	1	0	212436
HARDWARE COMPLETE	0	1	312646
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	0	4	812056
3/8" x 2 3/4" P.B.H.C.S.	0	4	812058
3/8" x 3" P.B.H.C.S. w/PATCH	4	0	812059
3/8" x 3 3/4" P.B.H.C.S. w/PATCH	4	0	812076
3/8" LOCK WASHER	8	0	817334
3/8" FLAT WASHER	8	8	817410
3/8" T-NUT	4	0	804556
3/8" BARREL NUT	1	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** ***Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.***
2. Attach Piano One Sided to Spacers using 3/8" x 3" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut. See Detail 542.
3. Attach Piano One Sided and Spacers to Rotomold using 3/8" x 3 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 543.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

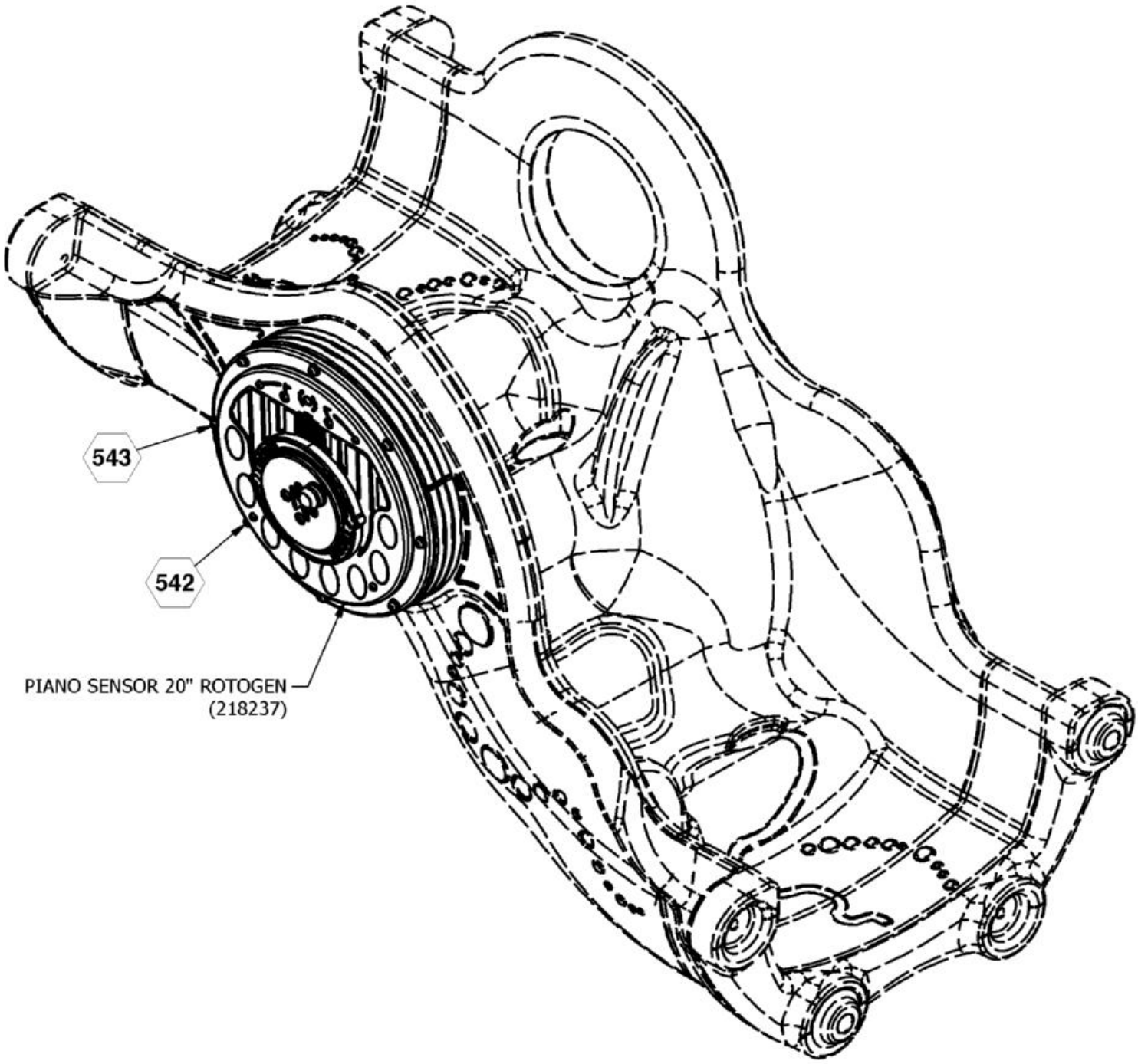
INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** ***Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.***
2. Attach Piano Two Sided and Rings to Rotomold using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 816.
3. Attach Back Cover to Rotomold using 3/8" x 2 3/4" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 817.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN



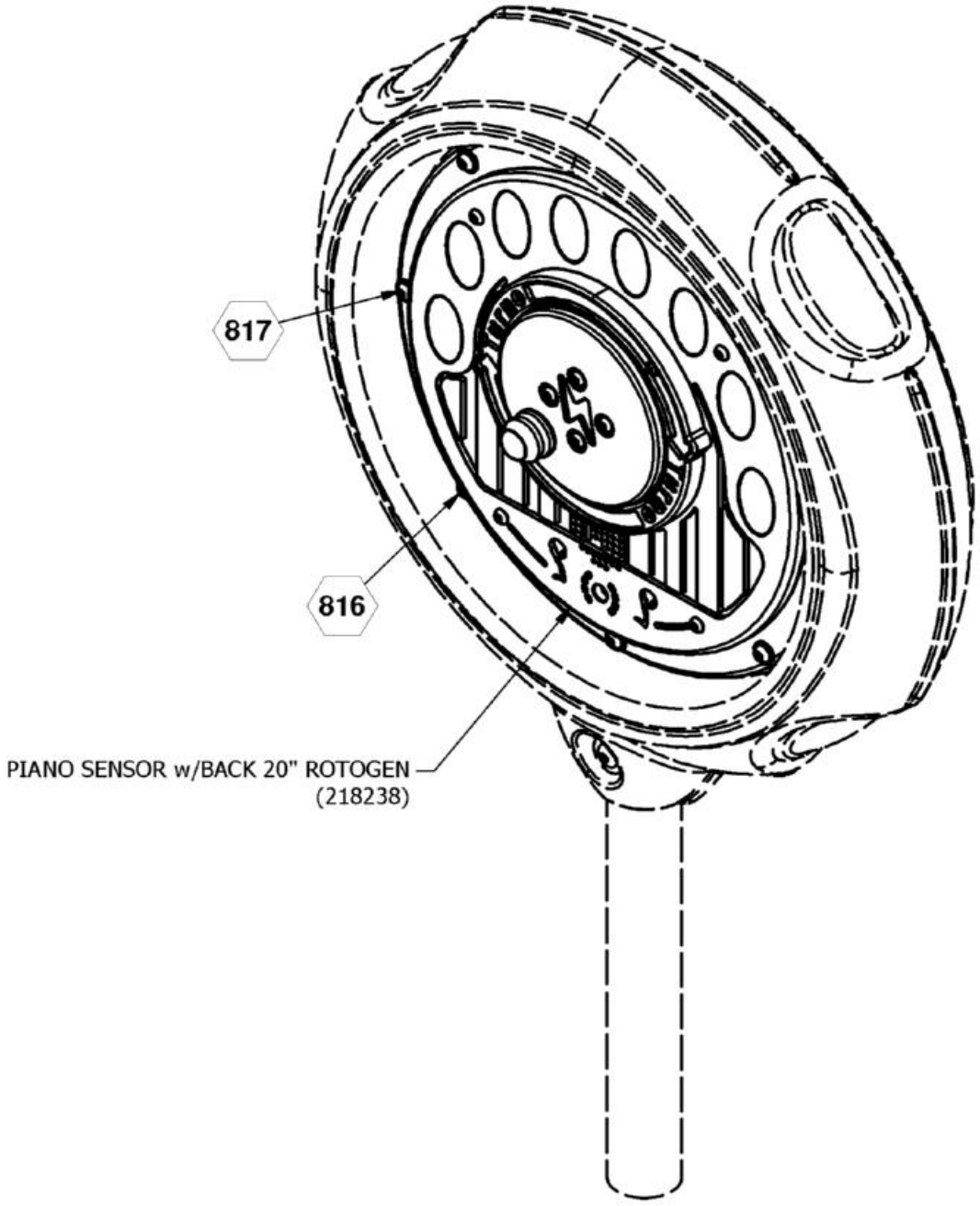
FINISHED ASSEMBLY
7343 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/6/2022

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN



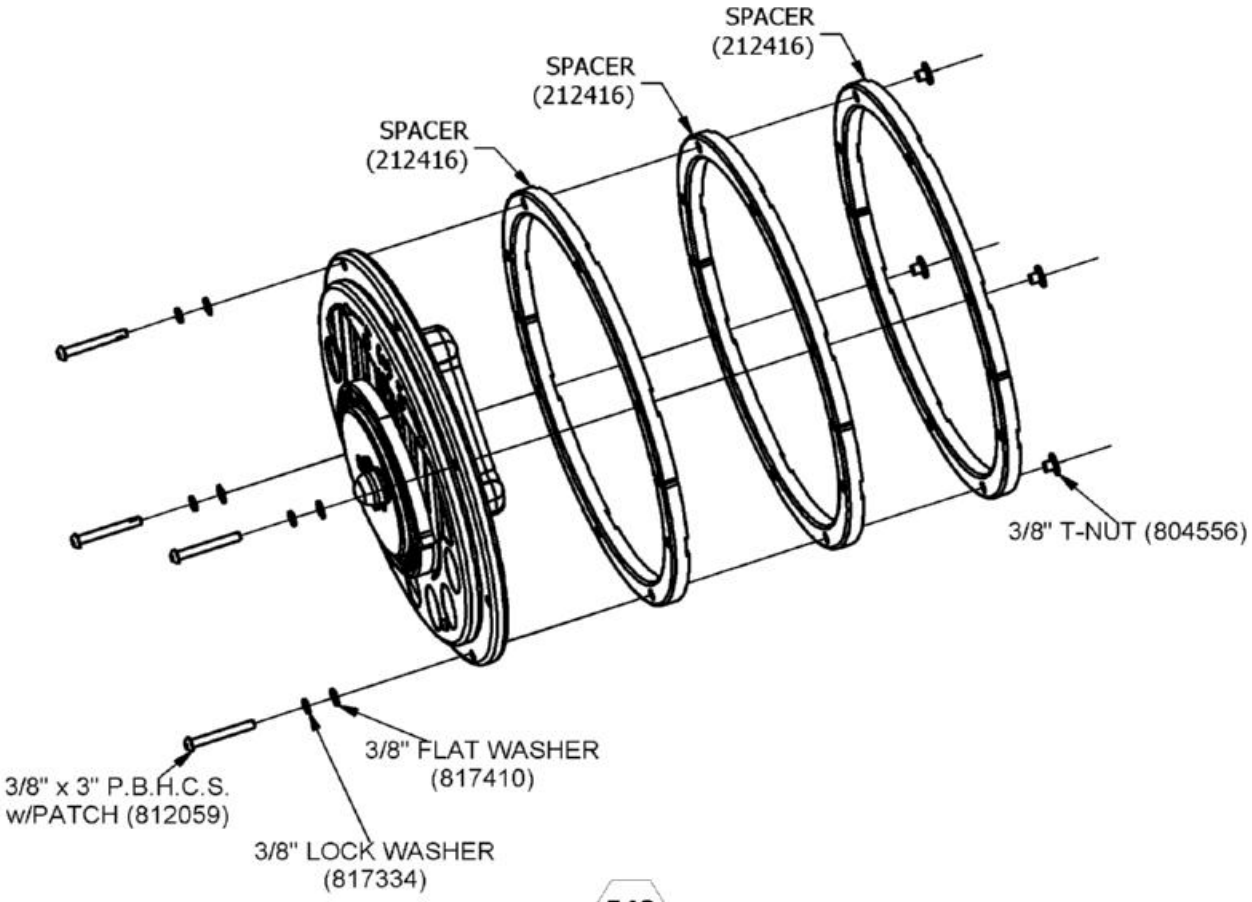
FINISHED ASSEMBLY
7344 SHOWN

= INSTALLATION DETAIL

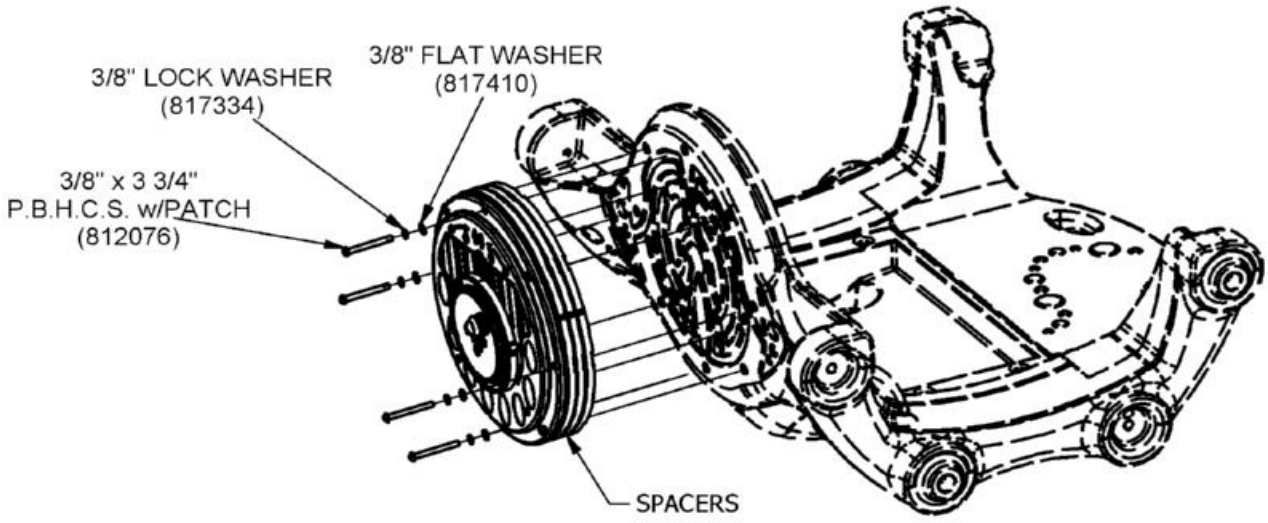
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/6/2022

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN

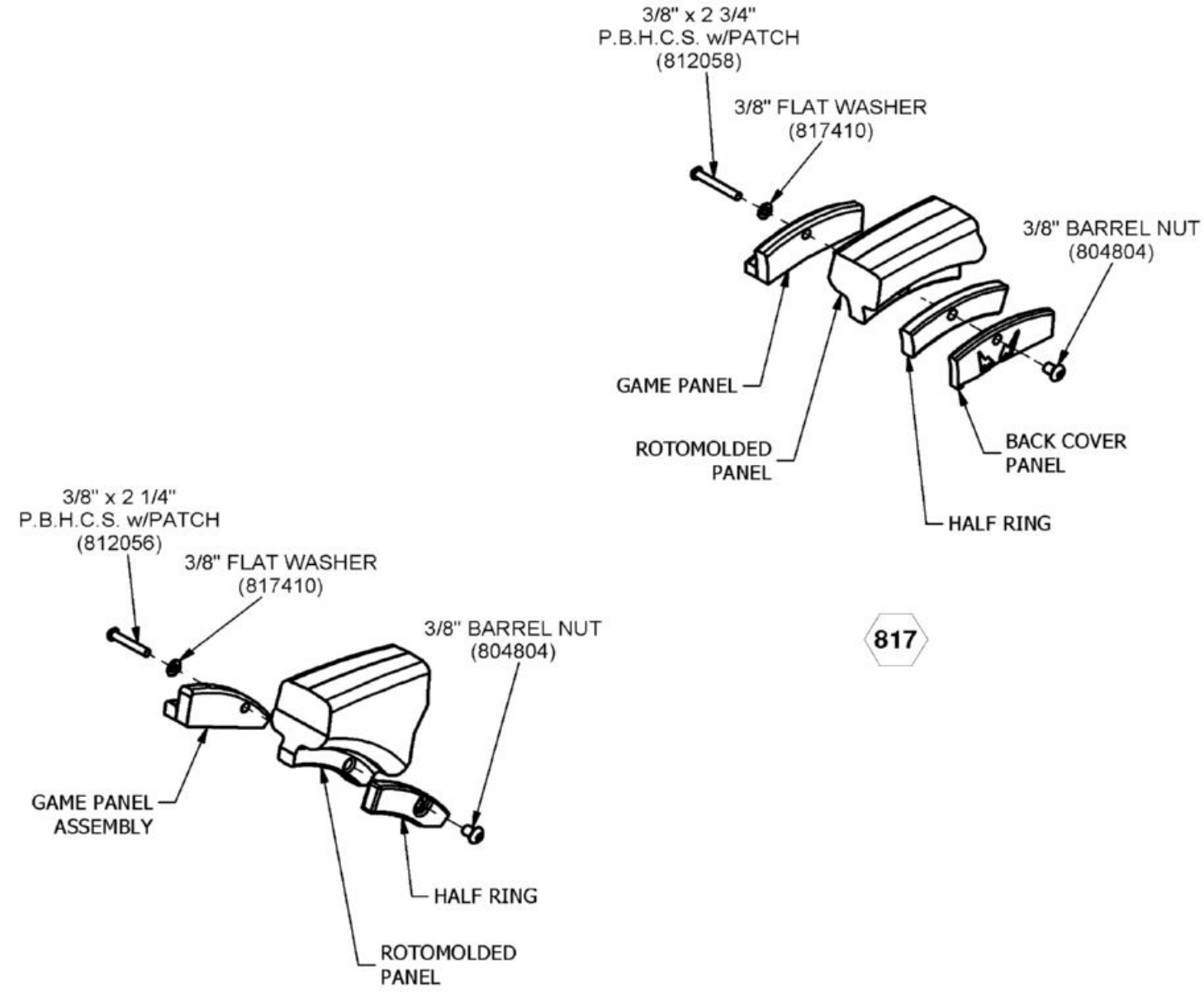


542



543

7343 20" ONE SIDED PIANO ROTOGEN
7344 20" TWO SIDED PIANO ROTOGEN



7349 12" TWO SIDED GIGGLER
7350 20" TWO SIDED GIGGLER

Parts List			
DESCRIPTION	7349	7350	PART NUMBER
12" GIGGLE BOX	1	0	218396
20" GIGGLE BOX	0	1	218239
HARDWARE COMPLETE	1	0	212465
HARDWARE COMPLETE	0	1	212475
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	8	812051
3/8" LOCK WASHER	5	8	817334
3/8" FLAT WASHER	5	8	817410
3/8" BARREL NUT	5	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Giggler:
The Giggler shall be fabricated from 1/2" high density polyethylene with electronic components housed in water tight low density polyethylene housing.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach 12" Giggle Box to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 546.

3. Plumb and level the entire assembly and tighten all fasteners.

4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

7349 12" TWO SIDED GIGGLER
7350 20" TWO SIDED GIGGLER

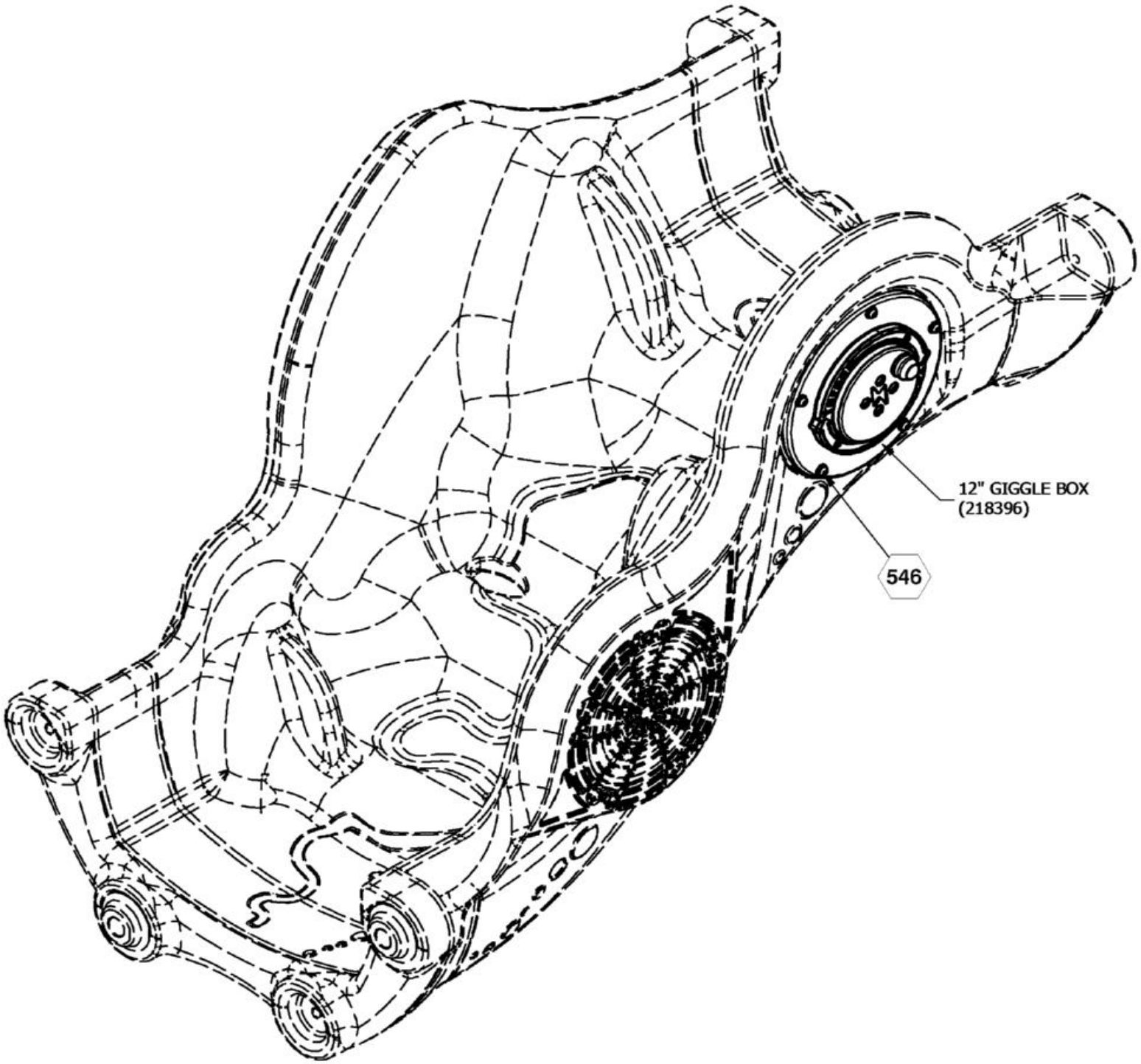
INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 20" Giggle Box to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 546.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7349 12" TWO SIDED GIGGLER
7350 20" TWO SIDED GIGGLER



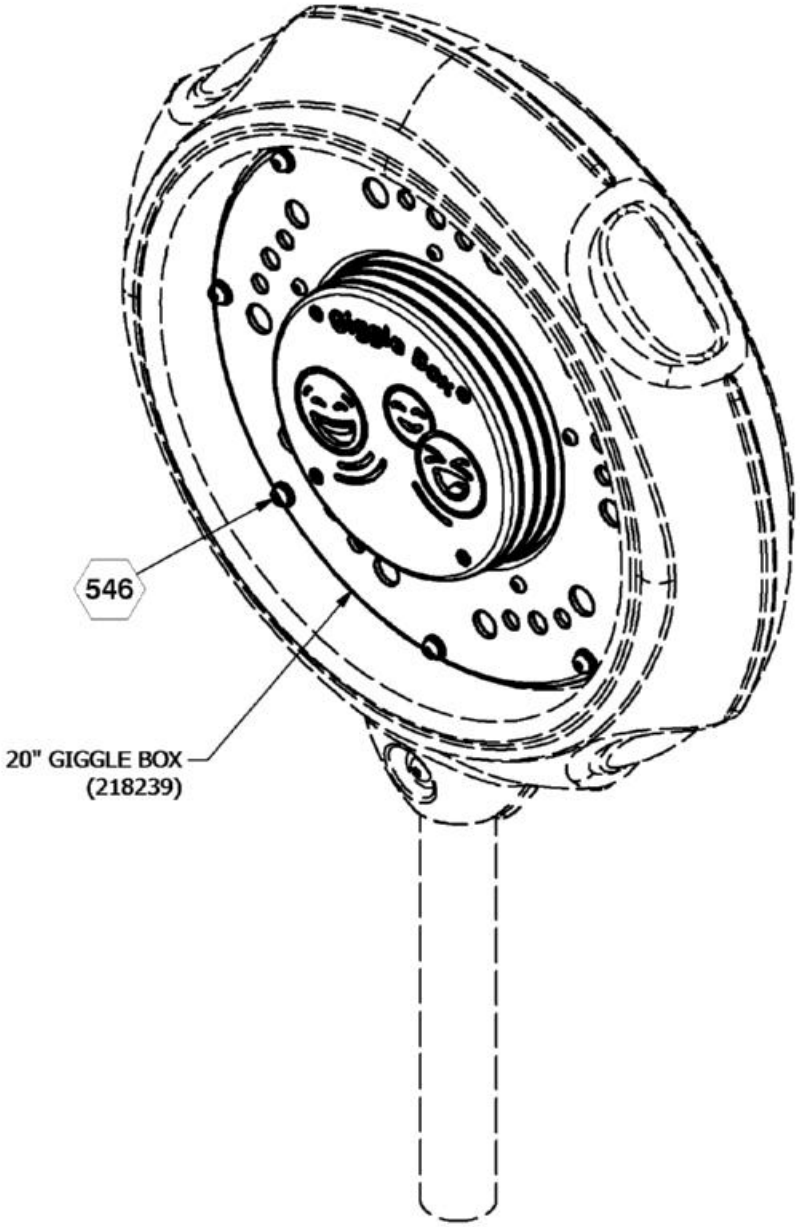
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
7349 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 4/17/2024

7349 12" TWO SIDED GIGGLER
7350 20" TWO SIDED GIGGLER

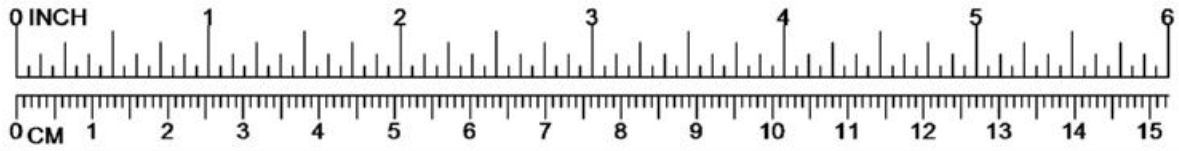


FINISHED ASSEMBLY
7350 SHOWN

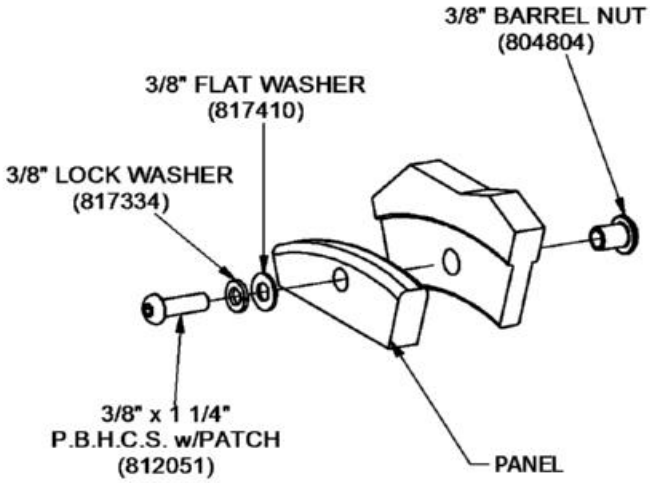
= INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 4/17/2024



7349 12" TWO SIDED GIGGLER
7350 20" TWO SIDED GIGGLER



NOTE: DISCARD BARREL NUT
FOR ROTOMOLD APPLICATION

546

MODEL NO. 60919 ZIG ZAG ADAPTER

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
	Hardware Complete	1	305846
1	Zigzag	2	305847*
	3/8" x 1/2" P.B.H.C.S. w/Patch	2	812049*
	3/8" x 3/4" P.B.H.C.S. w/Patch	4	812052*
	3/8" x 1" P.B.H.C.S. w/Patch	2	812050*
	3/8" Flat Washer	4	817410*
	3/8" Flat Washer (1 1/4" O.D.)	2	817424*
	3/8" Barrel Nut	4	804804*
	3/8" Lock Nut	2	804353*
	3/8" Tee Nut	2	804556*
	1/2" Flatwasher	2	817412*

Unless Otherwise Specified, All Units of Measure are Each

**** Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

MODEL NO. 60919 ZIG ZAG ADAPTER

SPECIFICATIONS:

Zigzag Adapter is made from 3/16" Thick H.R. Steel.

INSTALLATON INSTRUCTIONS

The Zigzag is a piece of hardware designed to avoid clamp conflicts. It has been designed and tested particularly for the use on Deck Clamps, HDPE Panels, Decks, and Barriers that attaches to Decks with Tabs. Important: Do not use The Zigzag with Pipe Clamps and Deck Clamps altogether. There are three types of connections that have been tested: Panel-to-Panel Clamp, Panel To Deck, and Barrier Tab to Deck. Avoid the use of the Zigzag on places where its use has not been intended.

HDPE PANEL TO PANEL CLAMP

1. Attach Zigzag onto a Panel Clamp using 3/8" x ¾" P.B.H.C.S. w/patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 058.

2. Attach HDPE Panel onto Zigzag using 3/8" x 3/4" P.B.H.C.S. w/patch, 3/8 Flat Washer, and 3/8" Barrel Nut. See Detail 058.

HDPE PANEL TO DECK

1. Attach Zigzag onto a Deck using 3/8" x 1" P.B.H.C.S. w/patch, 3/8" Flat Washer, and 3/8" Lock Nut. See Detail 059.

2. Attach HDPE Panel onto Zigzag using 3/8" x 3/4" P.B.H.C.S. w/patch, 3/8 Flat Washer, and 3/8" Barrel Nut. See Detail 059.

BARRIER TAB TO DECK

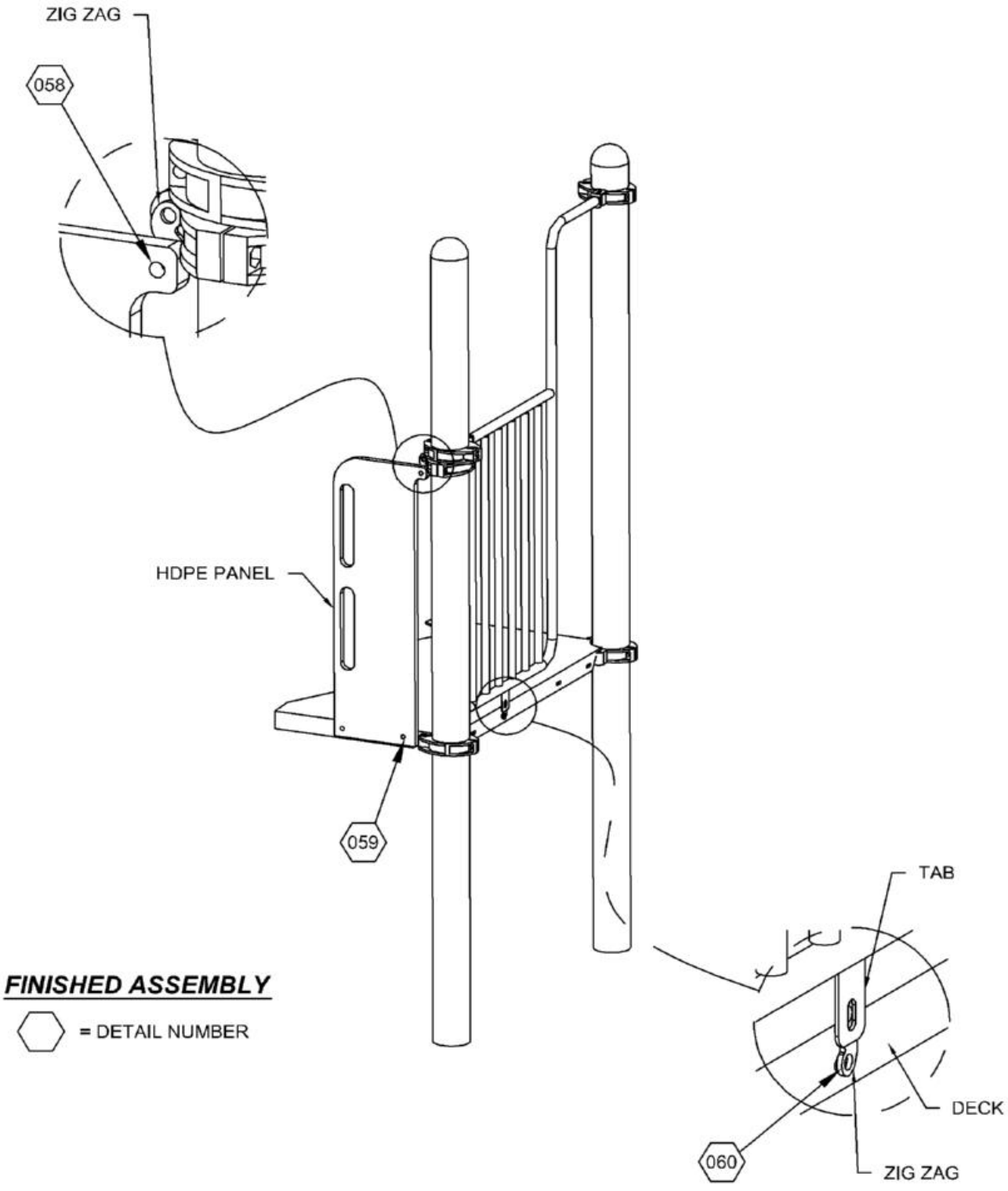
1. Attach Zigzag onto a Deck using 3/8" x 1" P.B.H.C.S. w/patch, 3/8" Flat Washer, and 3/8" Lock Nut. See Detail 060.

2. Attach Barrier Tab onto Zigzag using 3/8" x ½" P.B.H.C.S. w/patch and 3/8" Flat Washer and fastening the opposite side with a 3/8" Tee Nut and a ½" Flat Washer. See Detail 060.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

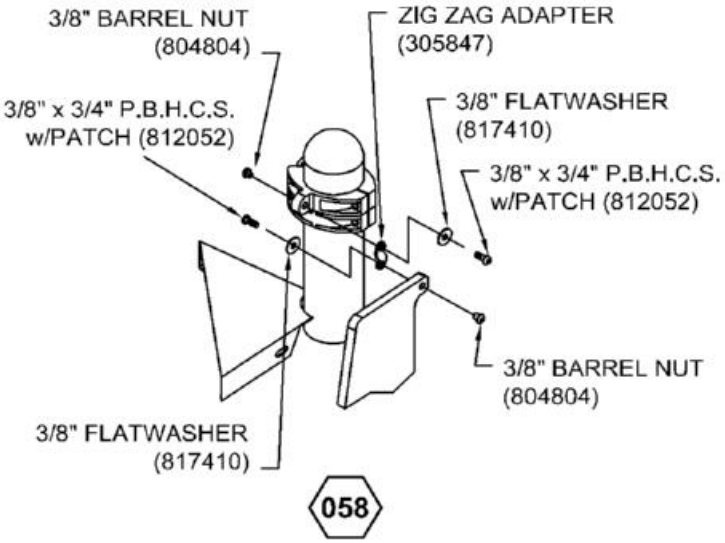
MODEL NO. 60919 ZIG ZAG ADAPTER

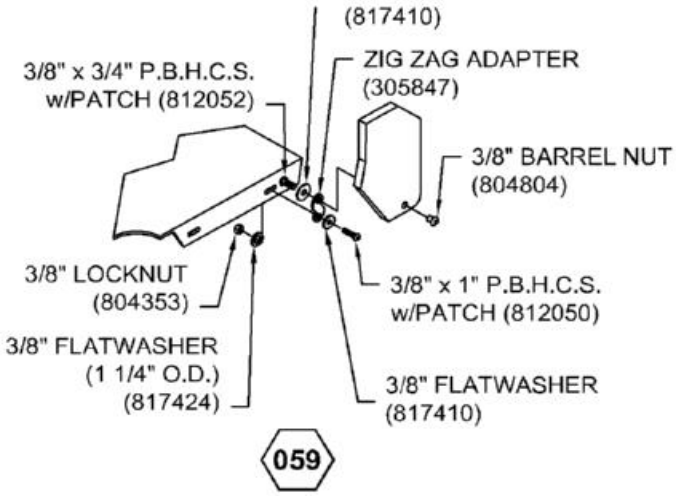


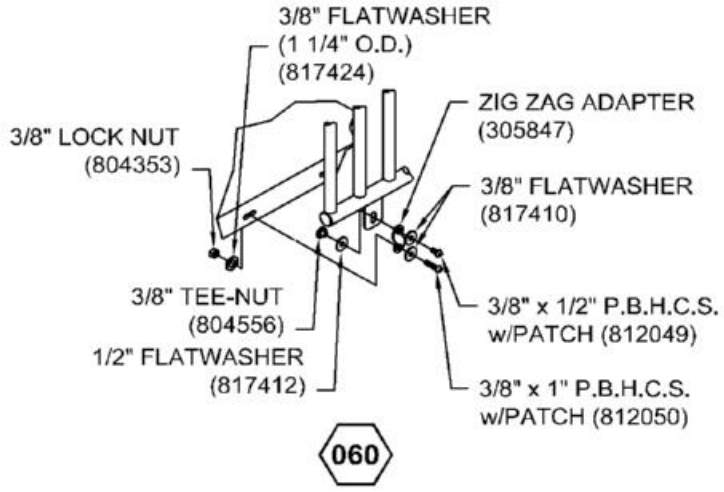
FINISHED ASSEMBLY

⬡ = DETAIL NUMBER

MODEL NO. 60919 ZIG ZAG ADAPTER







Duramax

62015 KICKPLATE 8"

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
9 1/2" x 29" Kick-plate	1	305741
Hardware Complete	1	302183
3/8" Flat Washer (1 1/4" O.D.)	8	817424*
3/8" Lock Nut	4	804353*
3/8" x 3/4" P.B.H.C.S. w/Patch	4	812052*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***
Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Refer to the main drawing to locate decks, which are spaced 8" apart. These will require Kickplate(s).Attach Kickplates after decks have been installed, but before deck clamps have been pinned, in case adjustment in deck heights is required to match up holes in deck flanges with holes in Kickplate.

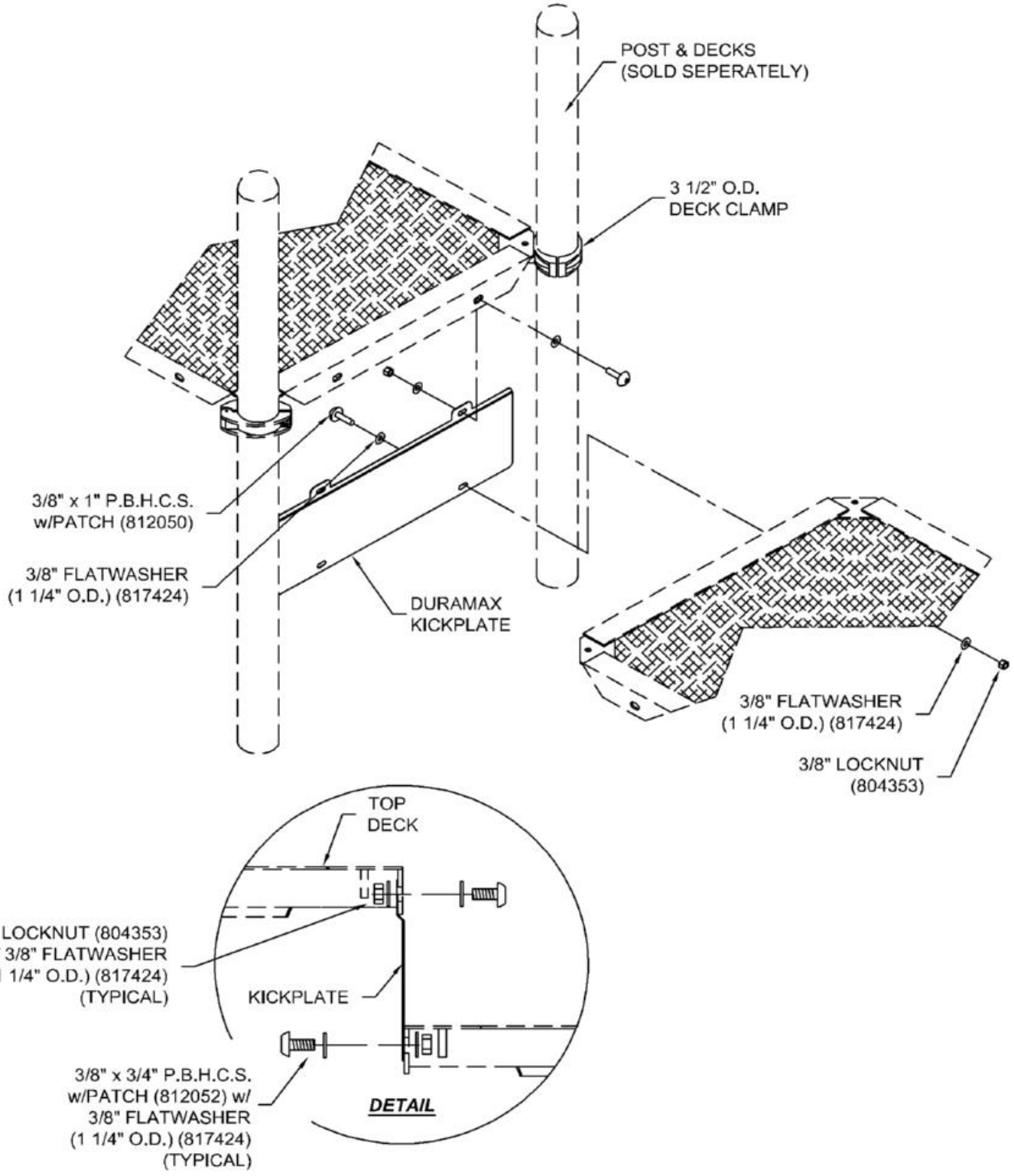
2. Attach Kickplate to decks using 3/8" x 3/4" P.B.H.C.S. w.Patch with 3/8" (1 1/4" O.D.) Flat Washers and 3/8" Lock Nuts. *Formed side of kickplate goes behind edge of top deck. No portion of the Kickplate should be protruding in a manner which could cause a user to receive a cut, scrape or trip over any edge. Any rough edges should be filed smooth, and any protruding corners should be flattened.*

3. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment

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62015 KICKPLATE 8"



Duramax

62032 STORE PANEL

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Duramax Store Panel	1	306751
DM Store Panel Counter	1	302608
90 Degree Angle Bracket	3	302334
3 1/2" O.D. Panel Clamp	4	302567
Hardware Complete	1	302613
1/4" x 3/4" Drive Rivet	4	168449*
3/8" Barrel Nut	10	804804*
3/8" Flatwasher	10	817410*
3/8" Heavy Hex Nut	4	804200*
3/8" x 1 1/2" P.B.H.C.S. w/Patch	8	812053*
3/8" x 3/4" P.B.H.C.S. w/Patch	6	812052*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

INSTALLATION INSTRUCTIONS:
NOTE: This Panel is for ground-level use only. Do not use as a deck barrier.

1. Attach Panel Clamps to Store/Table Panel using the 3/8" x 1 1/2" P.B.H.C.S. w/Patch with 3/8" Flat Washers and 3/8" Barrel Nuts as shown on assembly drawing.

2. Fasten Panel Clamps to Upright Posts (refer to separate Panel Clamp fastening detail).

IMPORTANT! Avoid creating any gaps between the components, which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points, which can trap a child and cause injury.

3. Plumb the Store/Table Panel and tighten Panel Clamp fasteners.

4. Attach Store Panel Counter to Store/Table Panel using 90° angle brackets, 3/8" X 3/4" Hex-pin bolts, and Barrel nuts as shown in the assembly drawing. Note that bolts should always go to the bracket side.

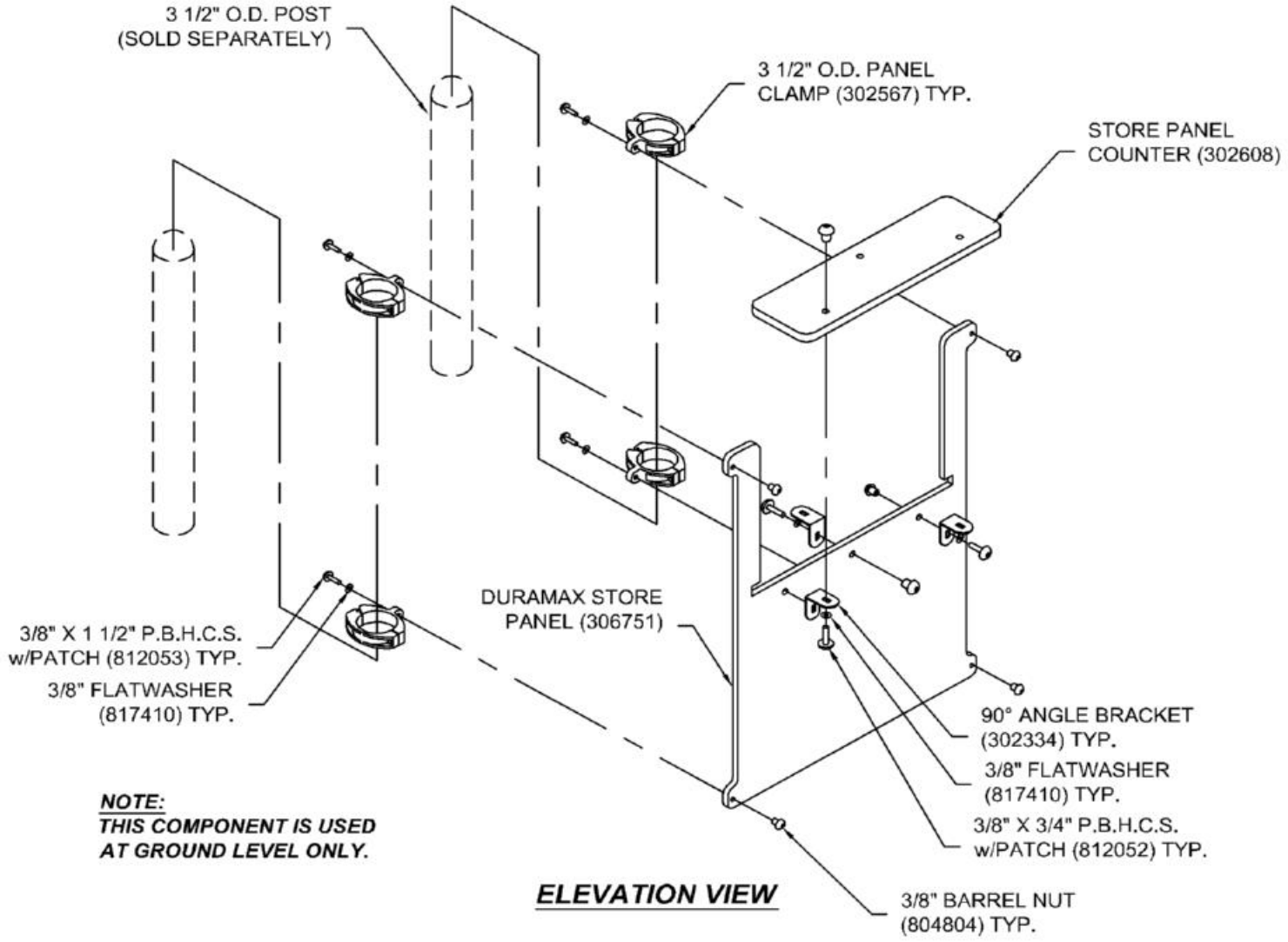
5. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Panel Clamps sub-assembly sheet. **It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.**

6. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust, paint peeling and touch-up if necessary with paint. Check for welded areas and verify integrity. Check for cracks, gouges or breakage on plastic, check for integrity of the plastic, keep plastic clean of any extraneous substance, verify that any deformation does not create entrapment as specified on ASTM F1487-98 section 6. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Duramax

62032 STORE PANEL



NOTE:
THIS COMPONENT IS USED AT GROUND LEVEL ONLY.

ELEVATION VIEW

Duramax

62115 DM SHAPES AND MOTION MIRROR PANEL

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
DM Pre-Assembled Shapes and Motion Mirror Panel	1	303080
3 1/2" O.D. Panel Clamp	4	302567
Hardware Complete	1	302798
1/4" x 3/4" Drive Rivet	4	168449*
3/8" Flatwasher	4	817410*
3/8" Barrel Nut	4	804804*
3/8" Heavy Hex Nut	4	804200*
3/8" x 1 1/2" P.B.H.C.S. w/Patch	8	812053*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

INSTALLATION INSTRUCTIONS:

1. Attach the Pre-assembled DuraMax Shapes and Motion Mirror Panel to Upright Posts by using Panel Clamps (refer to separate Panel Clamp Sub-assembly sheet for details), 3/8" x 1-1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washers 3/8" Barrel Nuts as shown in Assembly Drawing.

Note: Panels should be positioned so that the top of each panel is at least 38" above the deck surface. If a conflict exists between a panel clamp and an adjacent component's clamp, adjust the panel upward (Never lower than 38" above deck) without exceeding a maximum gap of 3-1/2" between the lower end of the panel and the top edge of the deck.

IMPORTANT! Avoid creating any gaps between the components, which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points, which can trap a child and cause injury.

2. Plumb and level the Panel and tighten Panel Clamp fasteners.

3. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Panel Clamps sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

4. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

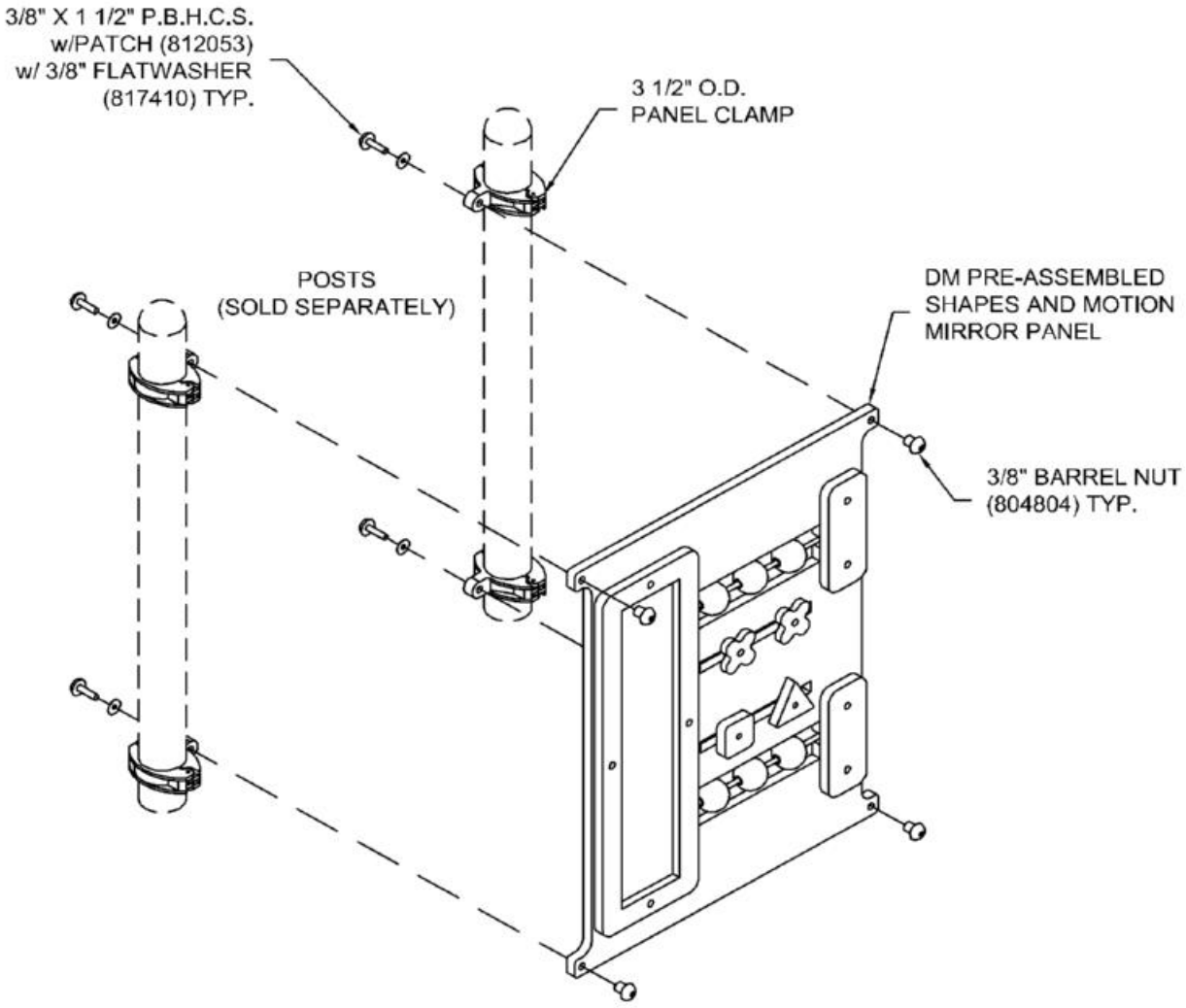
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found is repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check for cracks, gouges or breakage on plastic, check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

62115 DM SHAPES AND MOTION MIRROR PANEL

NOTE:
TOP EDGE OF PANEL MUST BE 38" [965mm] OR GREATER ABOVE ELEVATED PLATFORM SURFACE FOR USE BY 5-12 YEAR OLDS.

TOP EDGE OF PANEL MUST BE 29" [736mm] OR GREATER ABOVE ELEVATED PLATFORM SURFACE FOR USE BY 2-5 YEAR OLDS.



FINISHED ASSEMBLY

Duramax

62127 (4'-0"), 62128 (4'-8"), 62129 (5'-4") and 62130 (6'-0") HURRICANE SPIRAL SLIDE

PARTS LIST					
DESCRIPTION	62127	62128	62129	62130	PART NUMBER
SPIRAL SLIDE	1	1	1	1	215627
SPIRAL SLIDE HOOD	1	1	1	1	315508
EXTENSION PLATFORM 48"	1	0	0	0	302210
EXTENSION PLATFORM 56"	0	1	0	0	302317
EXTENSION PLATFORM 64"	0	0	1	0	302195
EXTENSION PLATFORM 72"	0	0	0	1	306942
BARRIER	2	0	0	0	308050
BARRIER	0	2	0	0	308055
BARRIER	0	0	2	0	308060
BARRIER	0	0	0	2	308065
PIPE ENCLOSURE SUPPORT ASS'Y	2	2	2	2	307933
HANDHOLD ASSEMBLY	2	2	2	2	308401
FOOTBUCK	1	1	0	1	200033
FOOTBUCK	0	0	1	0	176384
GROUND SOCKET	1	1	0	1	168601
GROUND SOCKET	0	0	1	0	302217
DECK CLAMP	4	4	4	4	301731
HARDWARE COMPLETE	1	1	1	1	302786
1/4" x 3/4" DRIVE RIVET	4	4	4	4	168449
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	812052
3/8" x 1" P.B.H.C.S. w/PATCH	2	2	2	2	812050
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	4	4	4	812051
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	12	12	12	12	812053
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	812054
3/8" x 3 1/4" B.H.C.S.	2	2	2	2	811060
3/8" BARREL NUT	4	4	4	4	804804
3/8" T-NUT	4	4	4	4	804556
3/8" LOCK WASHER	16	16	16	16	817334
3/8" FLAT WASHER	8	8	8	8	817410
3/8" (1 1/4" O.D.) FLAT WASHER	10	10	10	10	817424
3/8" LOCK NUT	2	2	2	2	804353
3/8" HEAVY HEX NUT	4	4	4	4	804200
1/2" x 3 1/2" HEX BOLT	2	2	2	2	801213
1/2" LOCK NUT	2	2	2	2	804355

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

62127 (4'-0"), 62128 (4'-8"), 62129 (5'-4") and 62130 (6'-0") HURRICANE SPIRAL SLIDE

INSTALLATION INSTRUCTIONS:

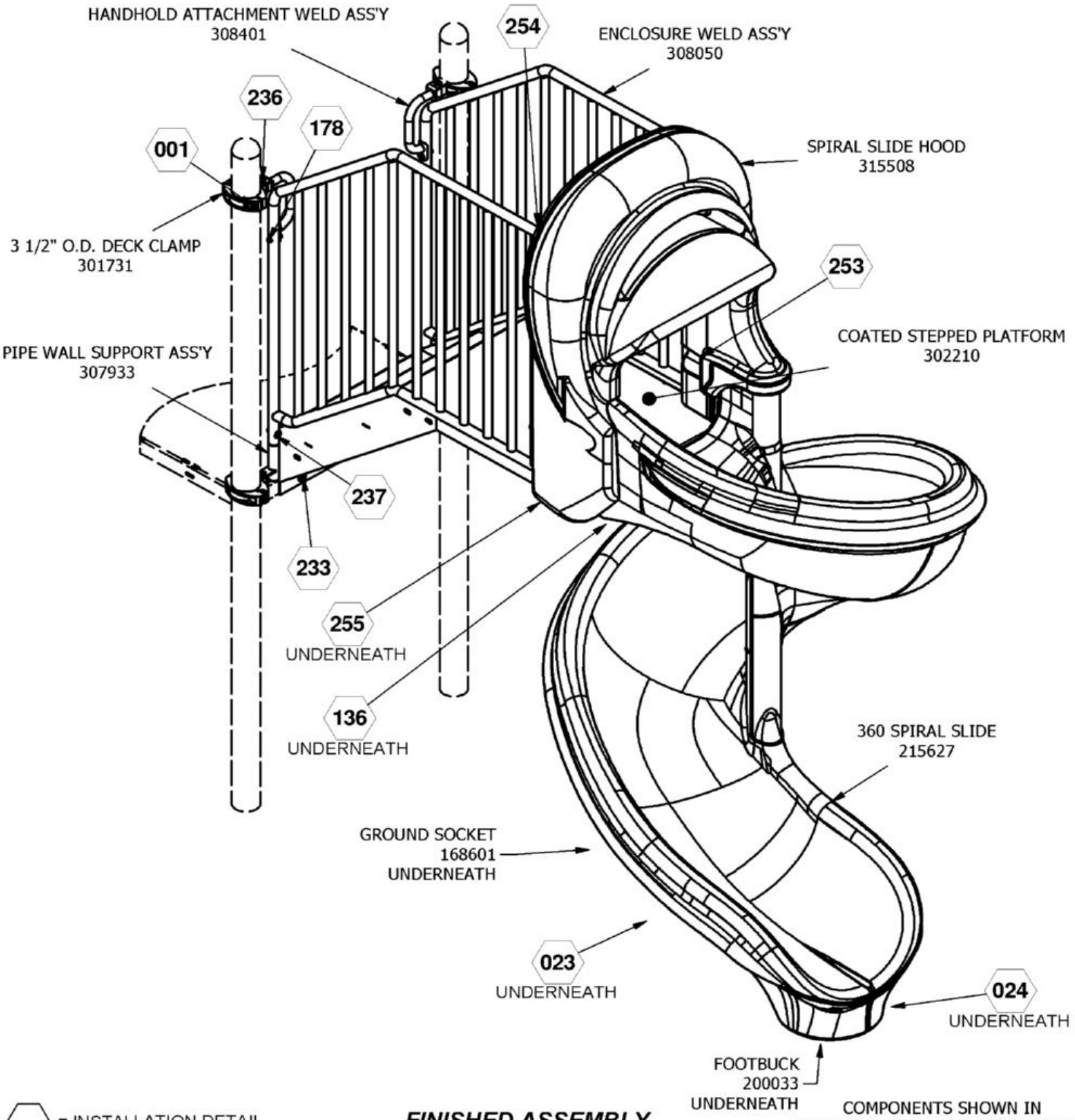
1. Dig footings at locations shown in footing diagram. Note: hole for slide mast must be 36" diameter.
2. Using a 7/16" drill bit, ream out any excess Plastisol-coating from all holes to be used in the Extension Platform. Be careful not to expose the steel.
3. Fasten the Deck Pipe Clamps to the main 3 1/2" O.D. Upright posts supporting the adjacent deck on the main structure. Refer to the Elevation View for proper clamp location. Do not fully tighten fasteners.
4. Attach the Handhold Assemblies to Upper Deck Clamps. See Detail 236.
5. Attach Pipe Enclosure Support Assemblies to lower Deck Clamps. See Detail 236.
6. Fasten the Extension Platform to the adjacent main structure deck. See Detail 233. Do not fully tighten fasteners.
7. Fasten the Footbuck to the Exit Segment of the Hurricane Spiral Slide Bed way. See Detail 024.
8. Fasten the Ground Socket to the Spiral Slide. See Detail 023. Fully tighten fasteners.
9. Place the assembled Hurricane Spiral Slide into the footing holes and attach it to the Extension Platform. See Detail 136.
10. Attach the Hurricane Spiral Slide Hood to the Hurricane Spiral Slide. See Detail 253.
11. Fasten the Hurricane Spiral Slide Hood to the Extension Platform. See Detail 255. Do not fully tighten fasteners.
12. Attach Barriers, Pipe Enclosure Support Assembly, and Handhold Assembly. See Details 178 and 237.
13. Attach Barriers to Spiral Slide Hood. See Detail 254.
14. Plumb and level the entire assembly and tighten all fasteners.
15. Pour concrete footings within 4" to the top and taper away from the posts to allow water drainage. Allow curing at least 48 hours before use.
16. When the structure is finished and satisfactory, install Drive Rivets to all clamps to ensure clamps cannot slide down posts. See Pipe Clamps sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Duramax

62127 (4'-0") HURRICANE SPIRAL SLIDE



⬡ = INSTALLATION DETAIL

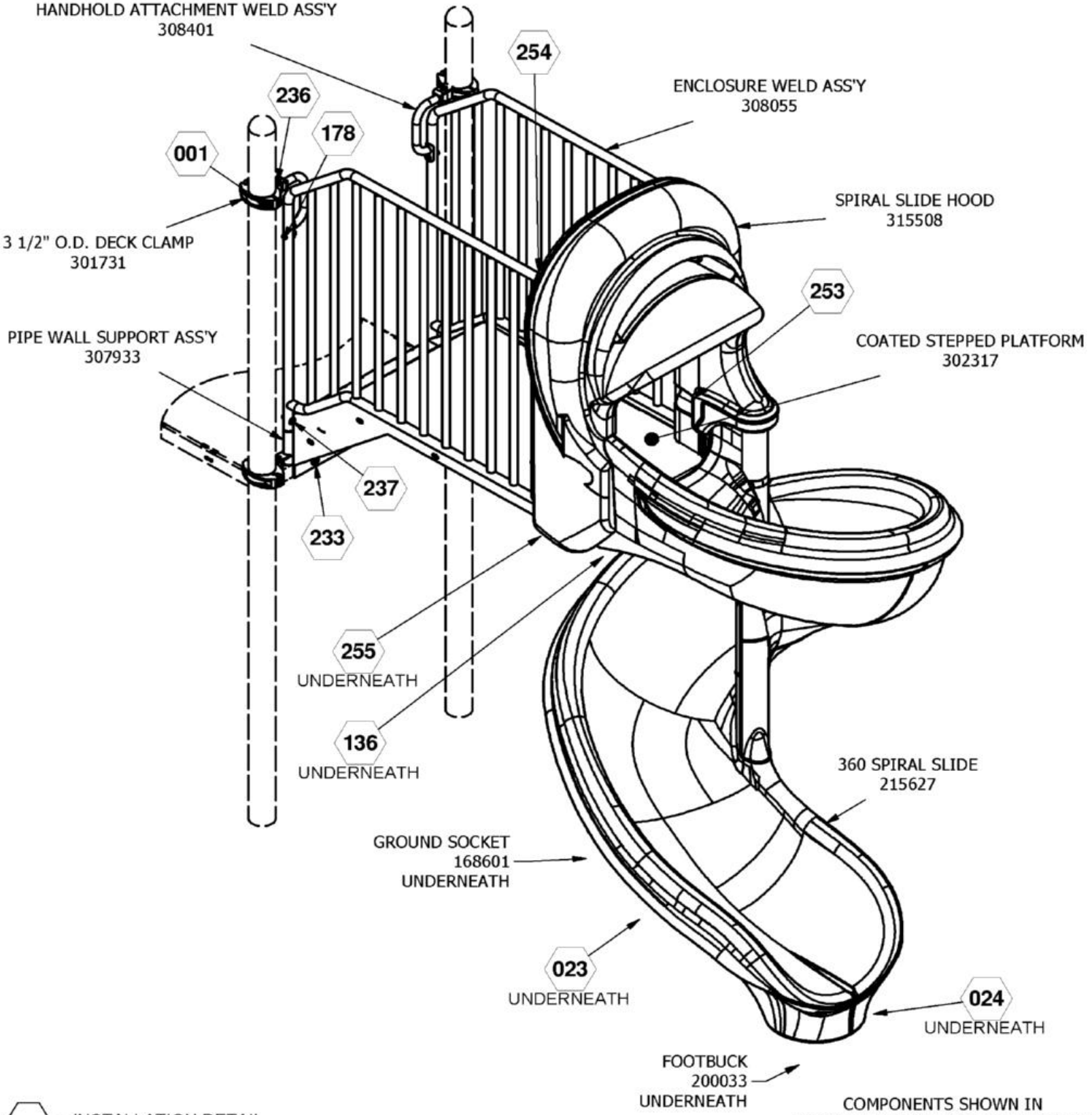
Issued/Revised: 9/21/2022

FINISHED ASSEMBLY
62127 SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Duramax

62128 (4'-8") HURRICANE SPIRAL SLIDE



⬡ = INSTALLATION DETAIL

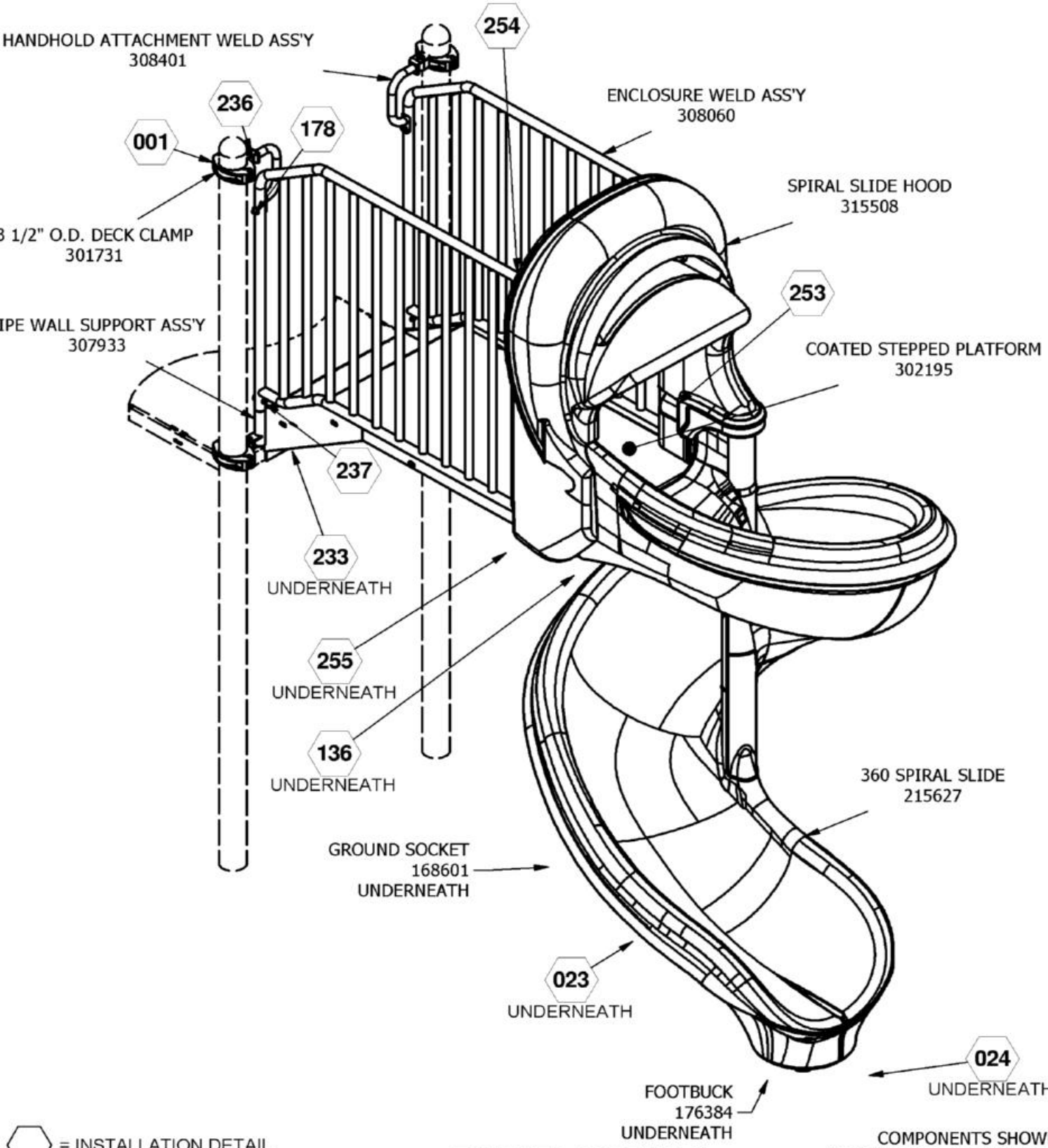
Issued/Revised: 9/21/2022

FINISHED ASSEMBLY
62128 SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

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62129 (5'-4") HURRICANE SPIRAL SLIDE



= INSTALLATION DETAIL

Issued/Revised: 9/21/2022

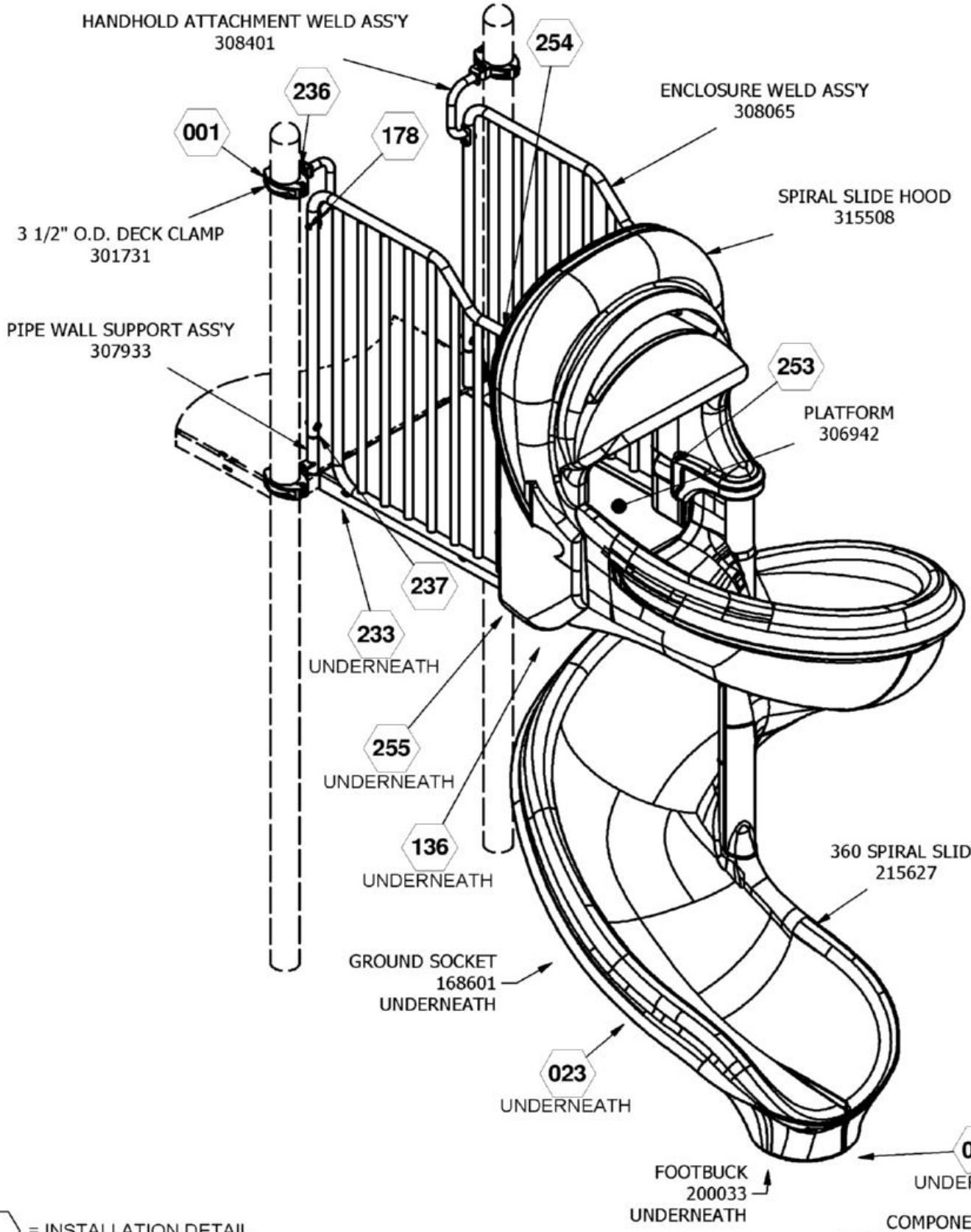
FINISHED ASSEMBLY

62129 SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Duramax

62130 (6'-0") HURRICANE SPIRAL SLIDE



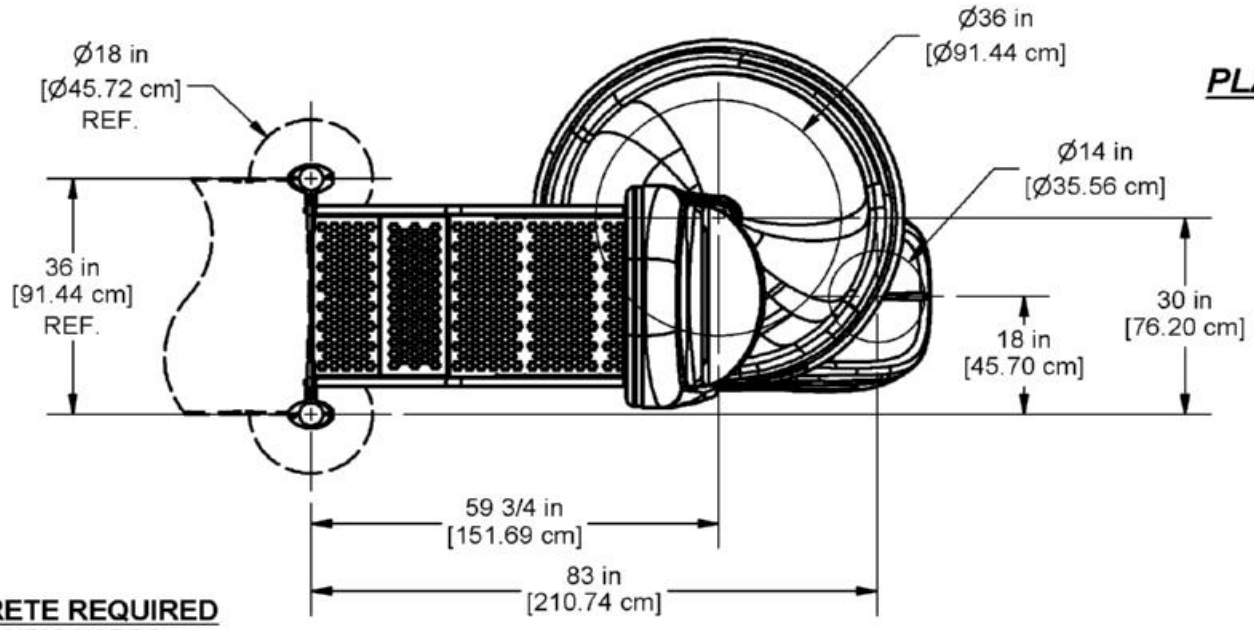
⬡ = INSTALLATION DETAIL

Issued/Revised: 9/21/2022

FINISHED ASSEMBLY
62130 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

62127 (4'-0") HURRICANE SPIRAL SLIDE

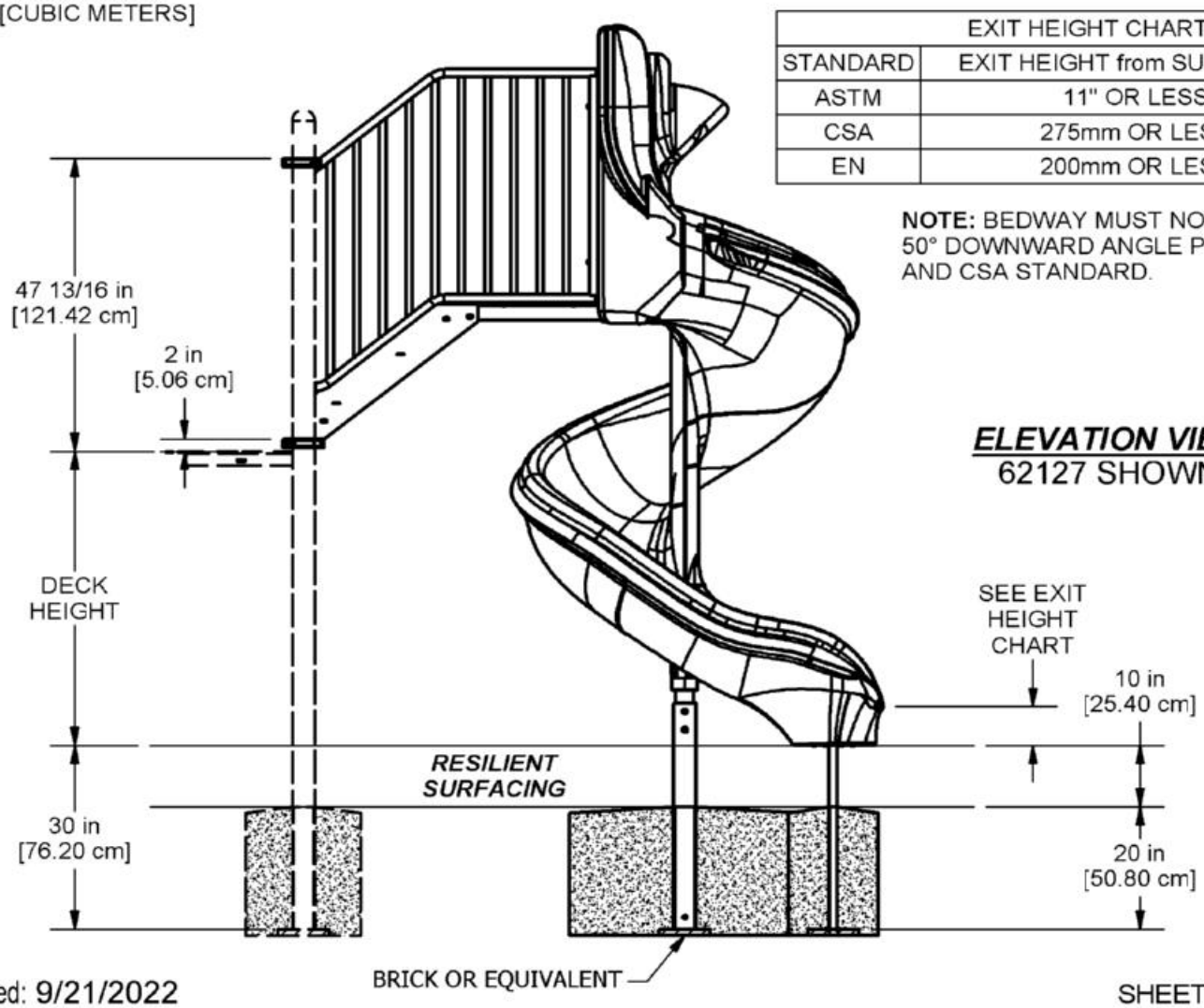


PLAN VIEW

CONCRETE REQUIRED
0.502 CUBIC YARDS
0.384 [CUBIC METERS]

EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	11" OR LESS
CSA	275mm OR LESS
EN	200mm OR LESS

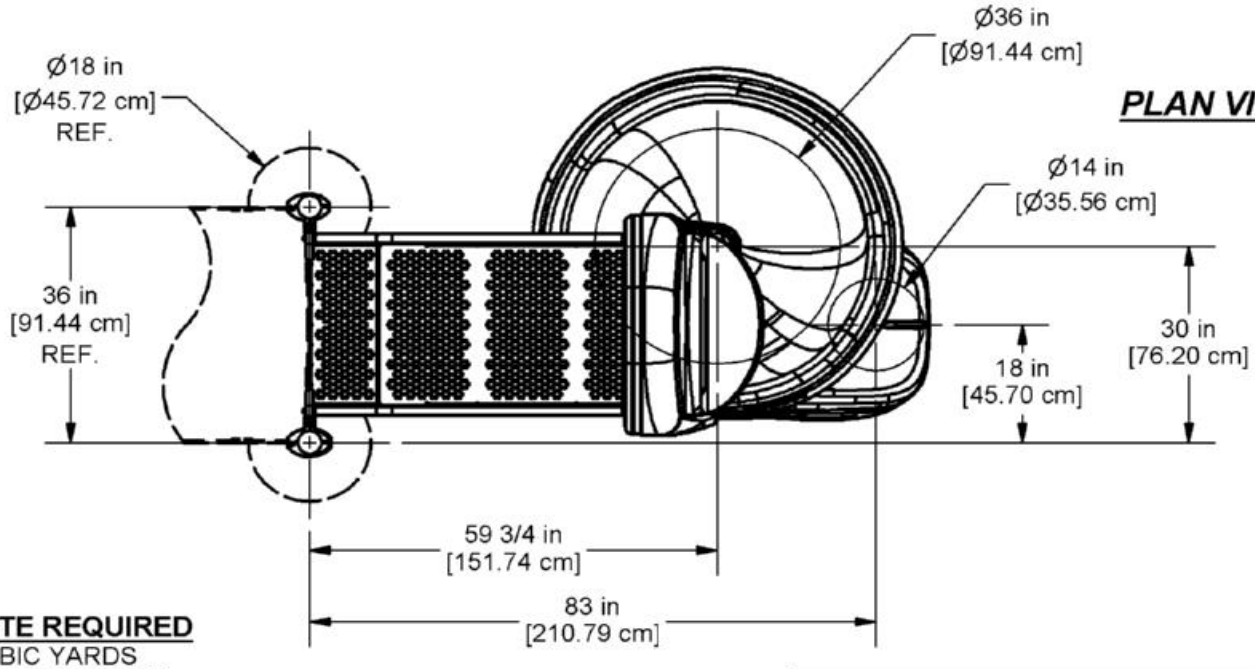
NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.



ELEVATION VIEW
62127 SHOWN

Duramax

62128 (4'-8") HURRICANE SPIRAL SLIDE

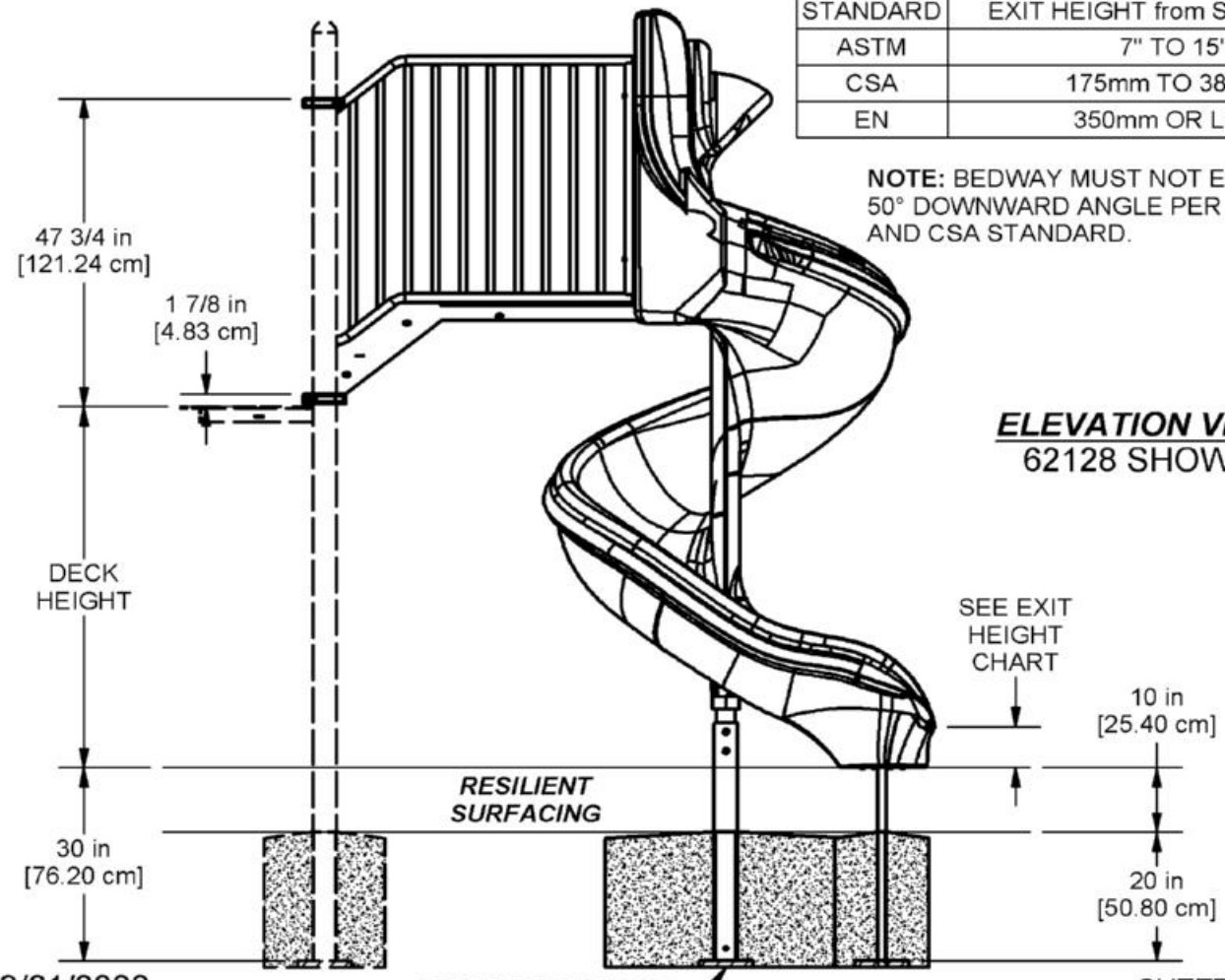


PLAN VIEW

CONCRETE REQUIRED
0.502 CUBIC YARDS
0.384 [CUBIC METERS]

EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

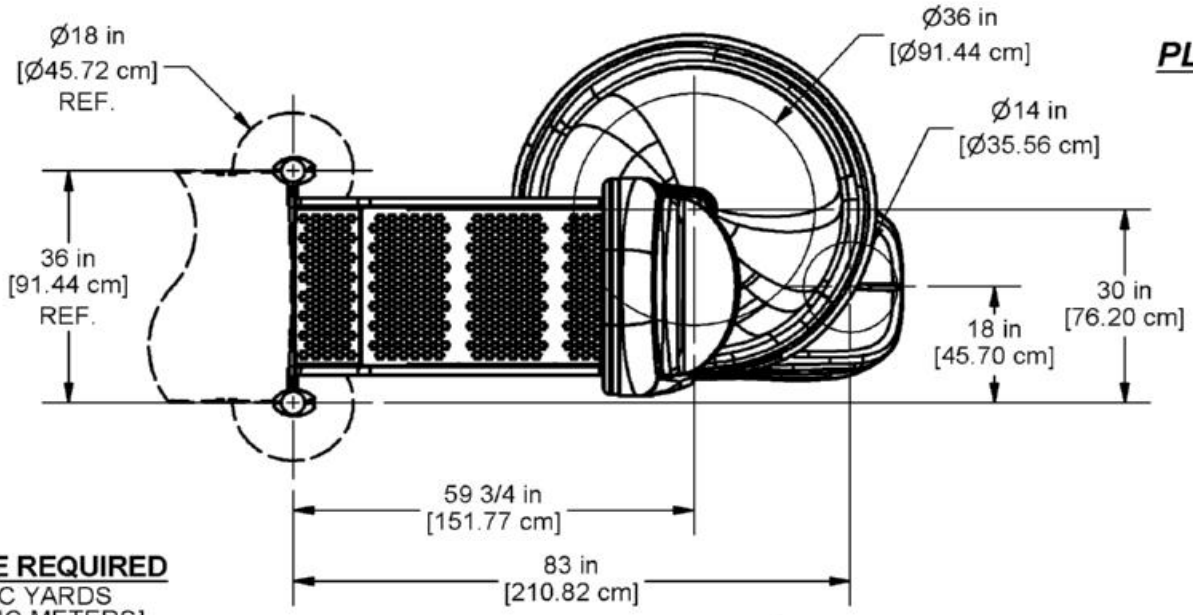
NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.



ELEVATION VIEW
62128 SHOWN

Duramax

62129 (5'-4") HURRICANE SPIRAL SLIDE

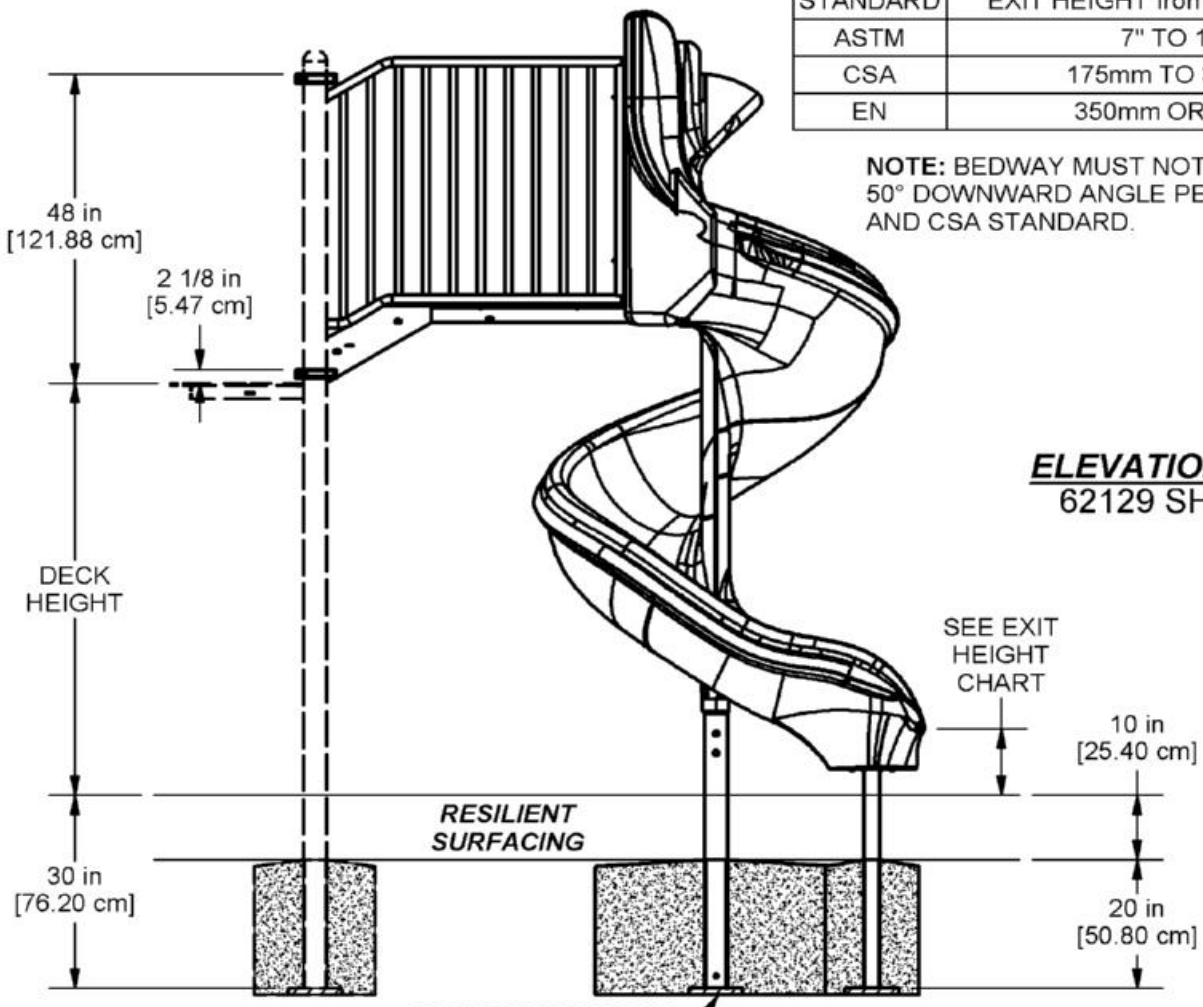


PLAN VIEW

CONCRETE REQUIRED
0.502 CUBIC YARDS
0.384 [CUBIC METERS]

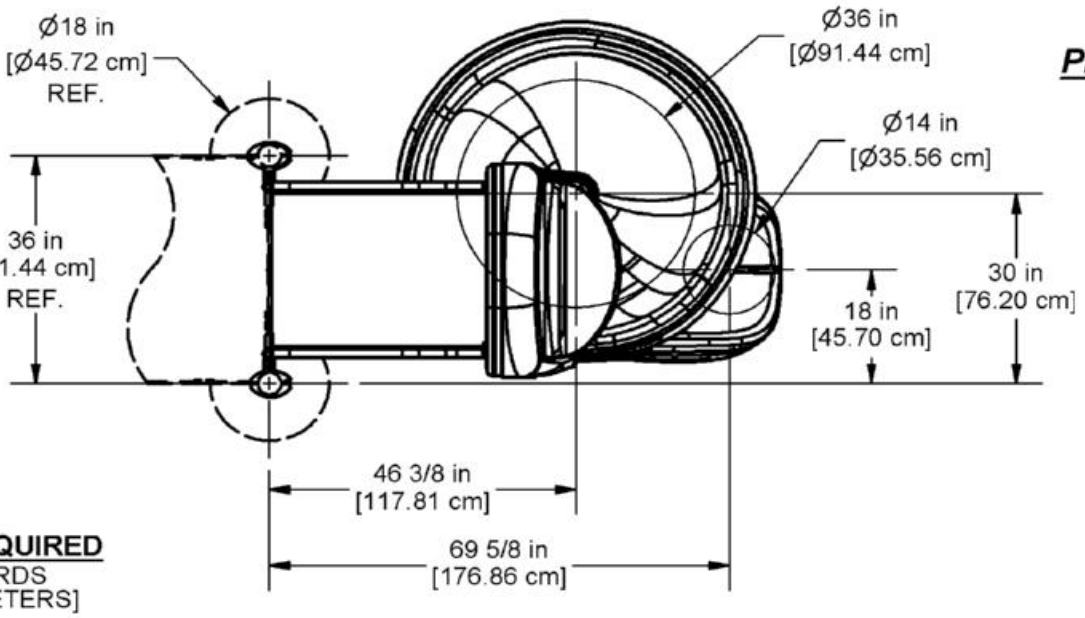
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.



ELEVATION VIEW
62129 SHOWN

62130 (6'-0") HURRICANE SPIRAL SLIDE

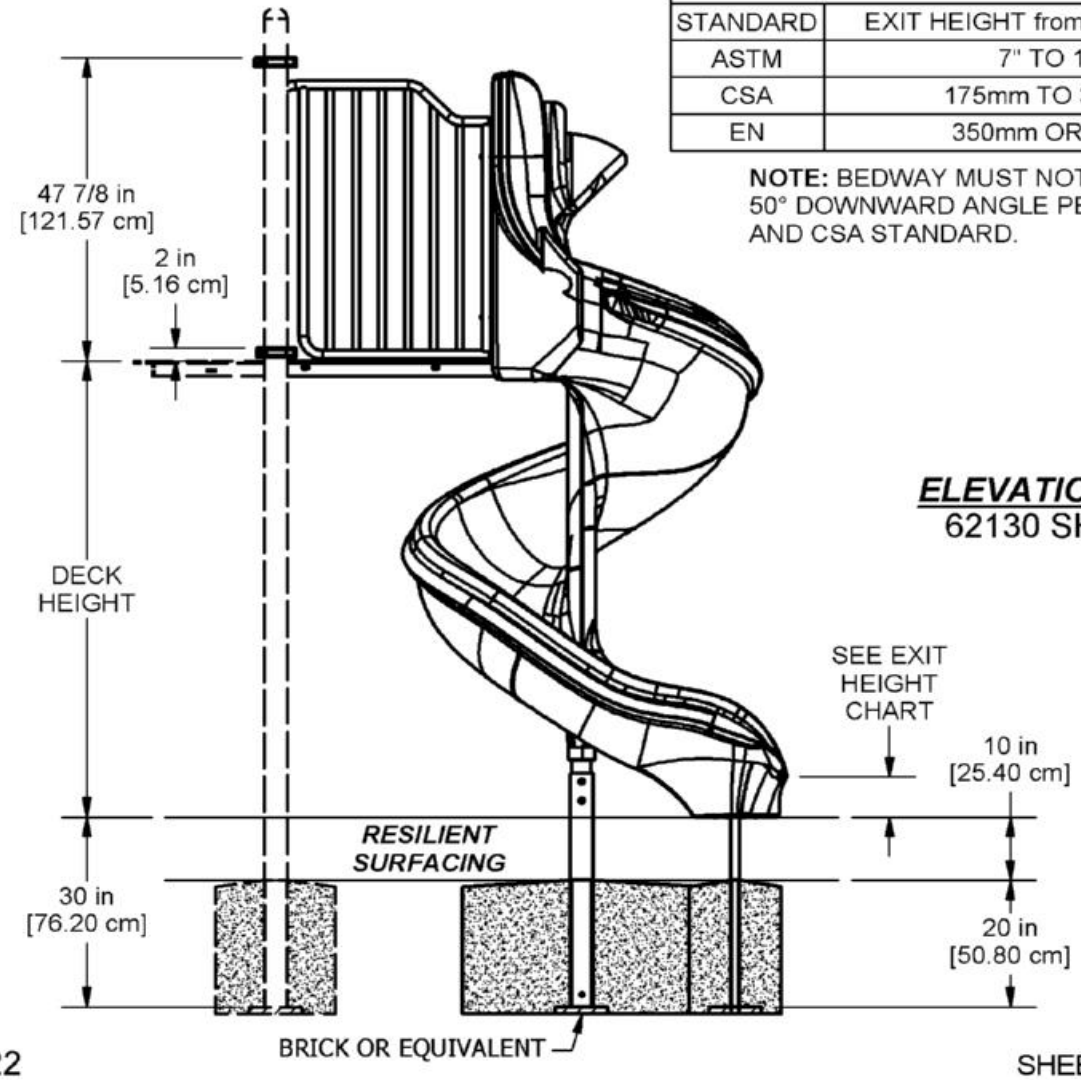


PLAN VIEW

CONCRETE REQUIRED
0.502 CUBIC YARDS
0.384 [CUBIC METERS]

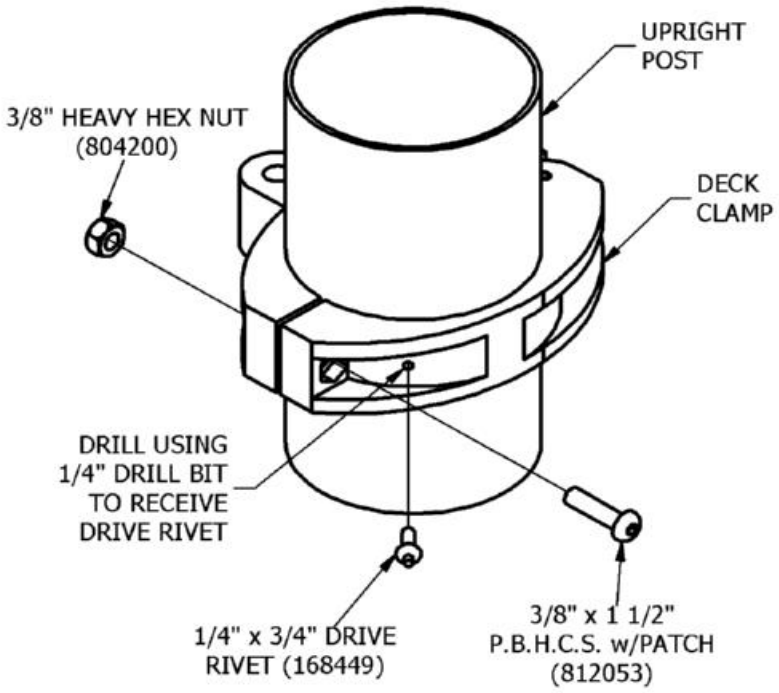
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.

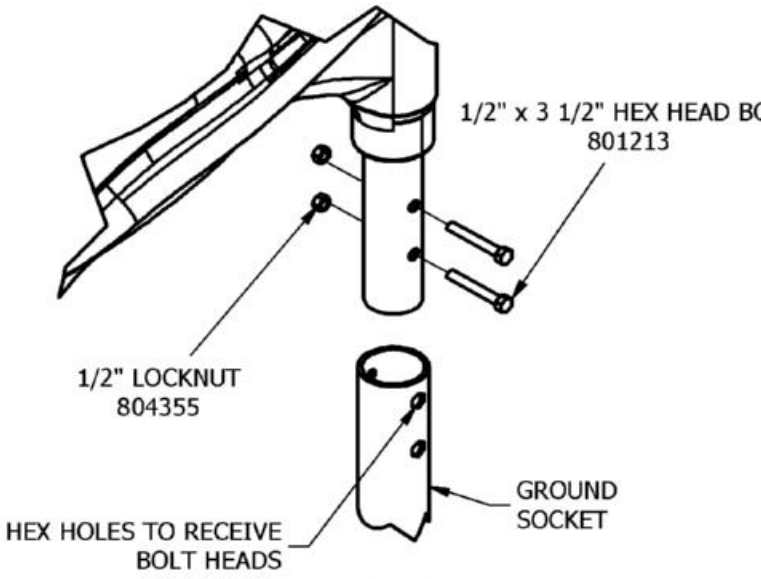


ELEVATION VIEW
62130 SHOWN

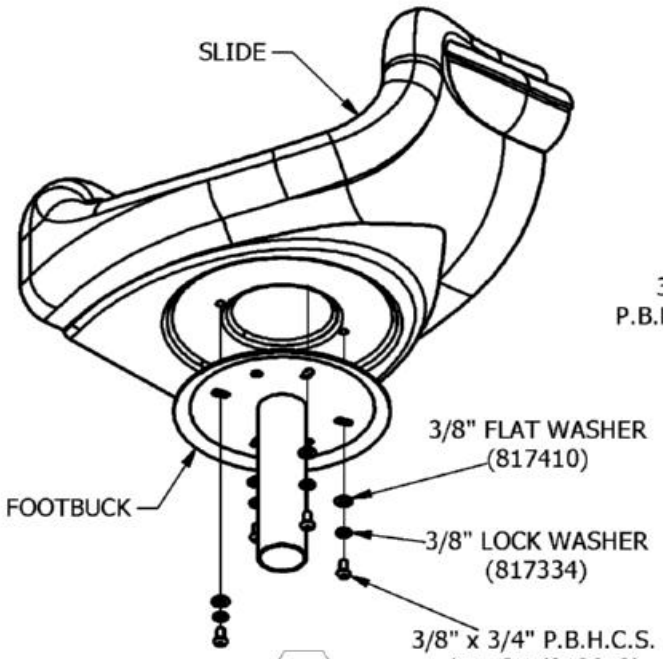
62127 (4'-0"), 62128 (4'-8"), 62129 (5'-4") and 62130 (6'-0") HURRICANE SPIRAL SLIDE



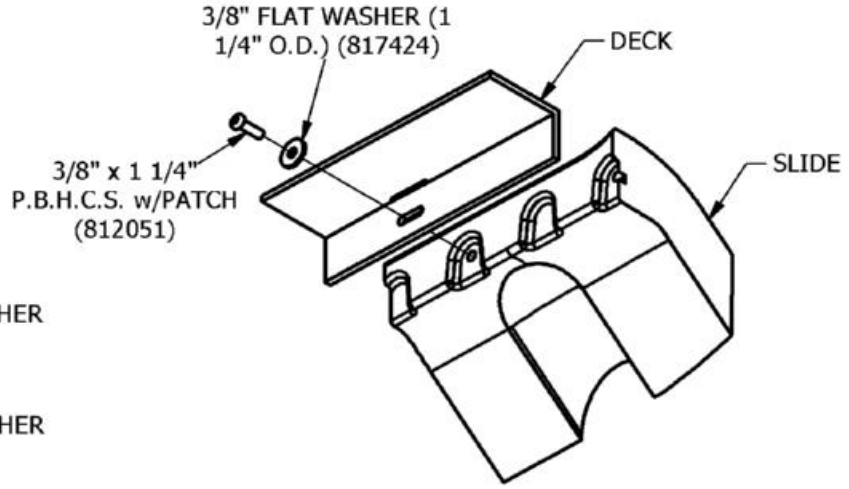
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023

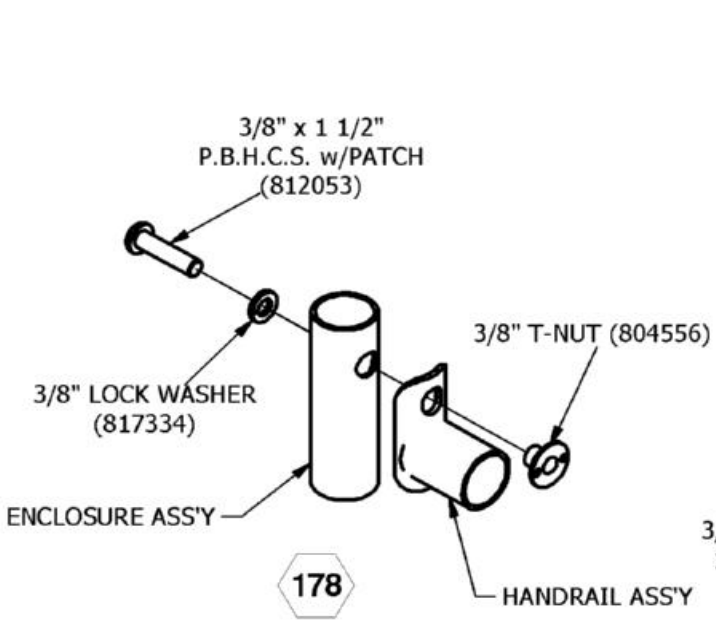


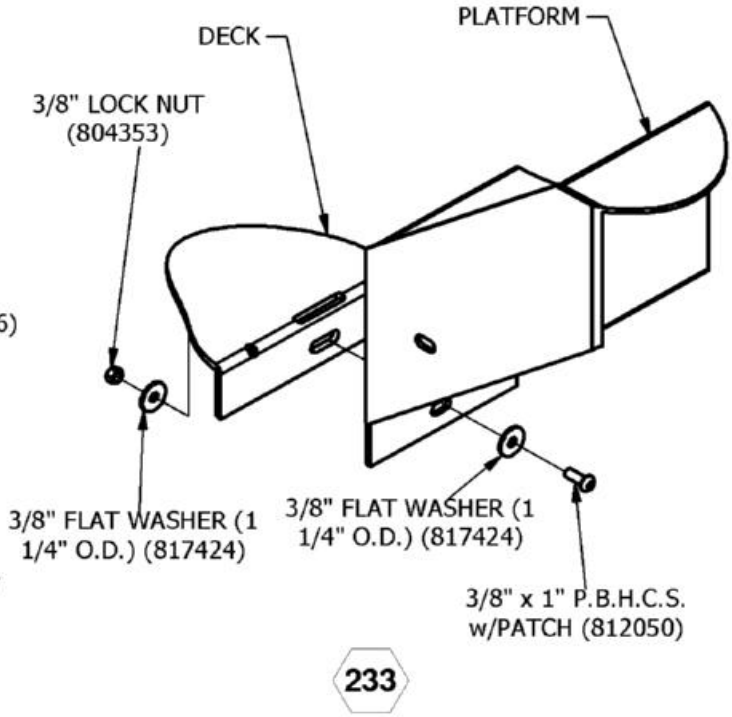
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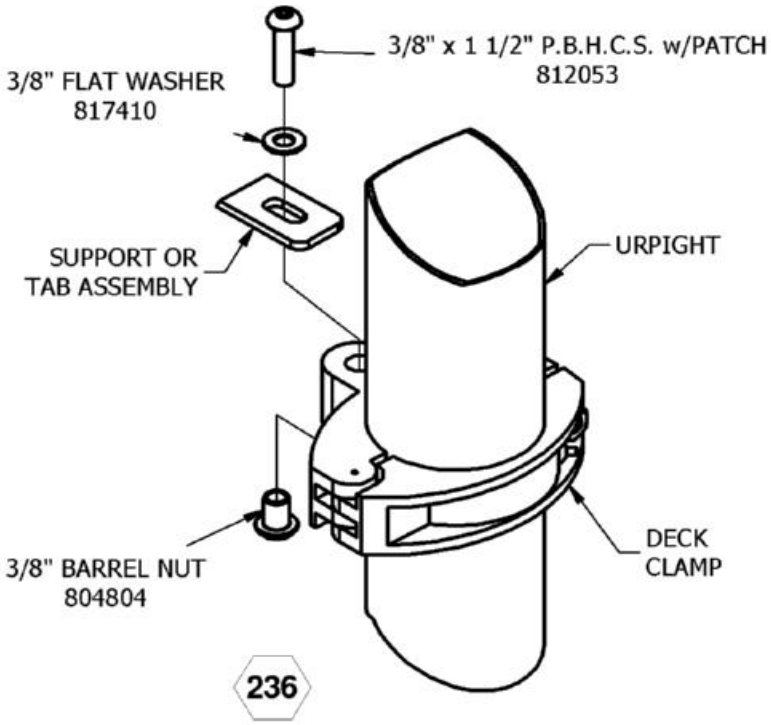


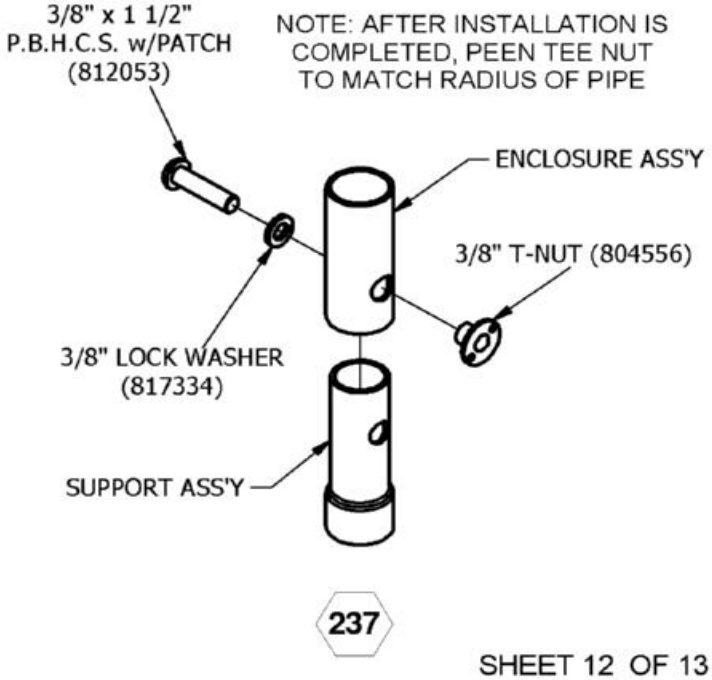
136

62127 (4'-0"), 62128 (4'-8"), 62129 (5'-4") and 62130 (6'-0") HURRICANE SPIRAL SLIDE

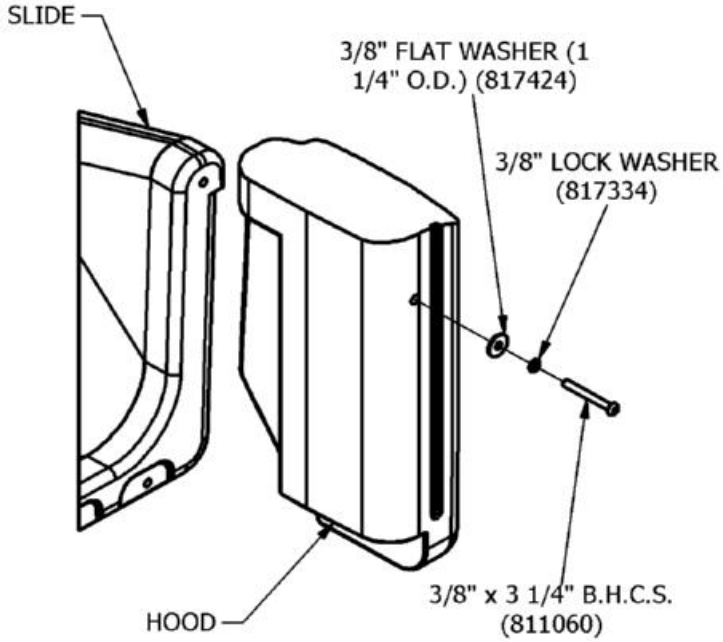




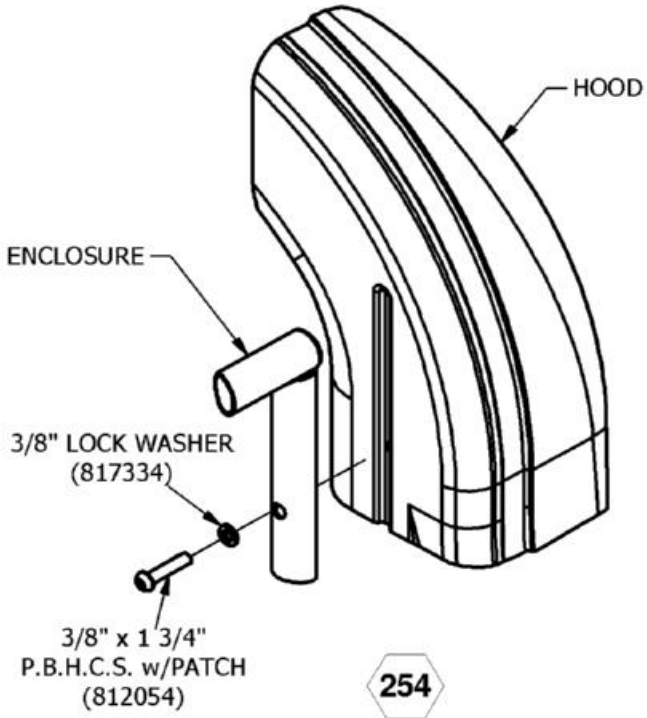




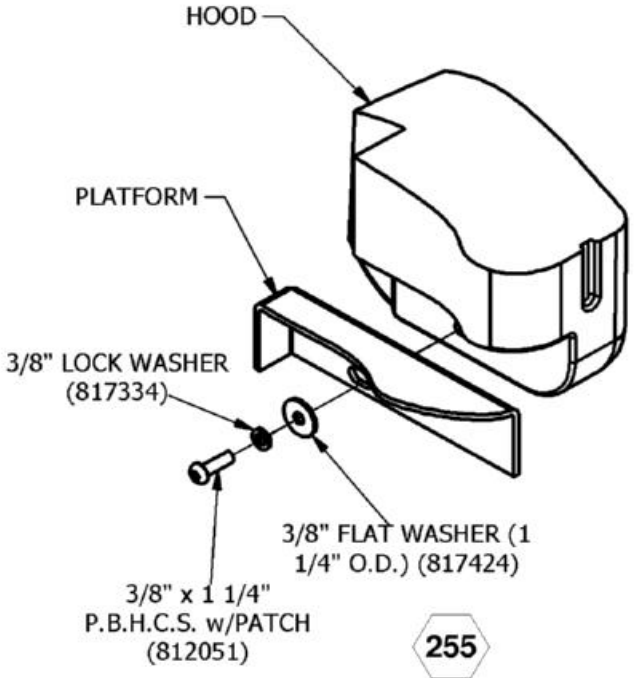
62127 (4'-0"), 62128 (4'-8"), 62129 (5'-4") and 62130 (6'-0") HURRICANE SPIRAL SLIDE



253



254



255

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62268 LOOP POLE (4' DECK)

Parts List		
DESCRIPTION	QTY	PART NUMBER
ENTRY ARCHWAY WITH SOCKET	1	313655
LOOP POLE	1	306145
3 1/2" O.D. DECK CLAMP	2	301731
HARDWARE COMPLETE	1	306116
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	5	812053
3/8" FLAT WASHER	3	817410
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424
3/8" LOCK NUT	2	804353
3/8" BARREL NUT	3	804804
3/8" HEAVY HEX NUT	2	804200
1/4" x 3/4" DRIVE RIVET	2	168449

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which Deck is to receive the Loop Pole. Refer to your Top View drawing for location.
2. Dig footing holes for Loop Pole & Posts at locations noted on Top View.
3. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the Deck. Be careful not to expose the steel.
4. Using Detail-001 and Elevation View, locate and fasten two Deck Clamps to Upright Posts using 3/8" x 1-1/2" P.B.H.C.S. w/Patch, and 3/8" Heavy Hex Nut.
5. Using Detail-797, attach Entry Archway to Upright Posts using Deck Clamps and fasten with 3/8" x 1-1/2" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut.
6. Using Detail-026, insert Entry Archway tab through slot on top of Deck and fasten to flange using 3/8" x 3/4' P.B.H.C.S. w/Patch, 3/8" Flat Washer (1-1/4" O.D.), and 3/8" Lock Nut.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

62268 LOOP POLE (4' DECK)

7. Place Loop Pole into dug hole and attach the swaged end to the socket on top of the Entry Archway using 3/8" x 1 1/2" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut as shown in Detail-066.

8. Plumb and level the entire assembly and tighten all fasteners.

9. Pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use.

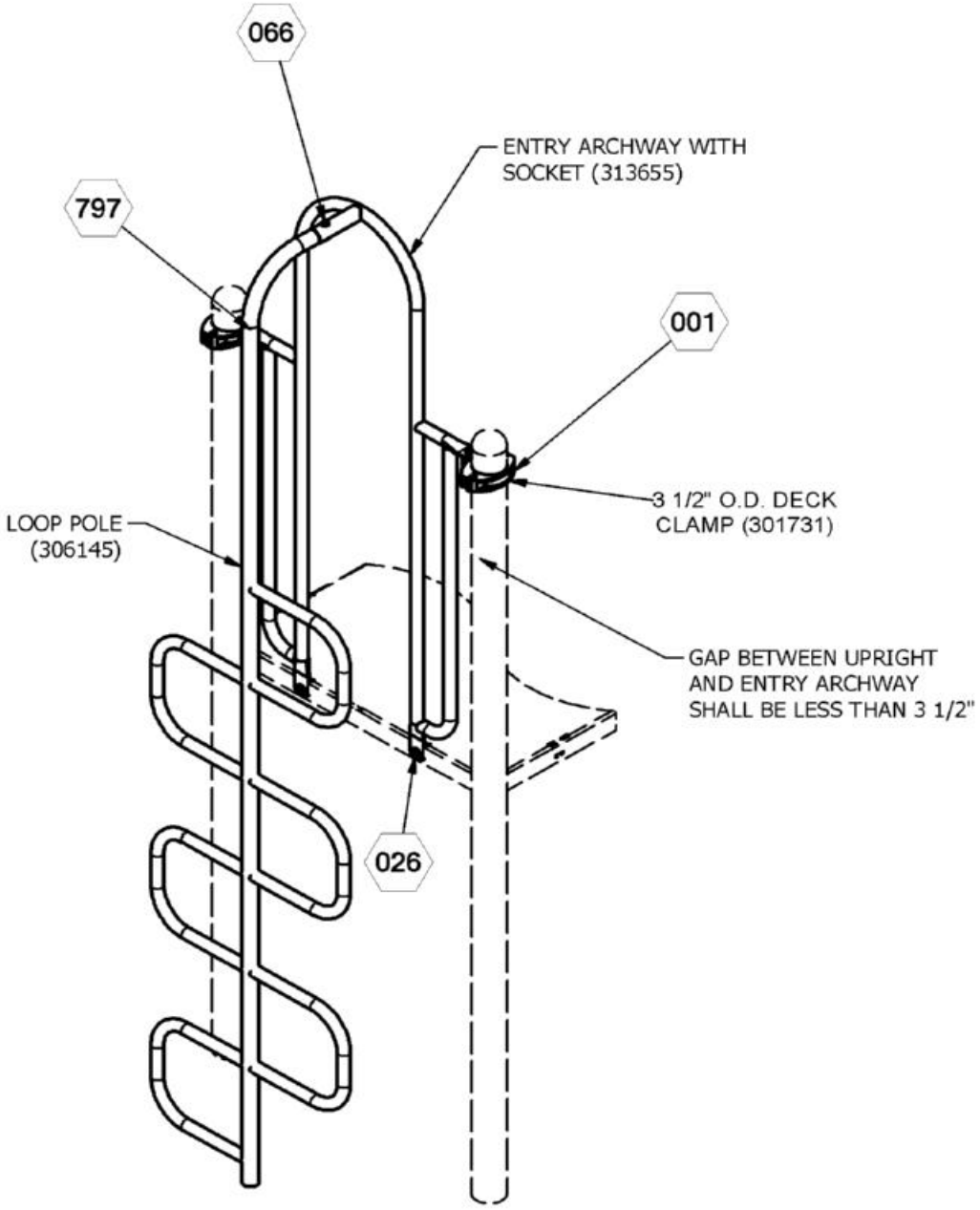
10. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the ***Safety Guidelines***. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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62268 LOOP POLE (4' DECK)



FINISHED ASSEMBLY

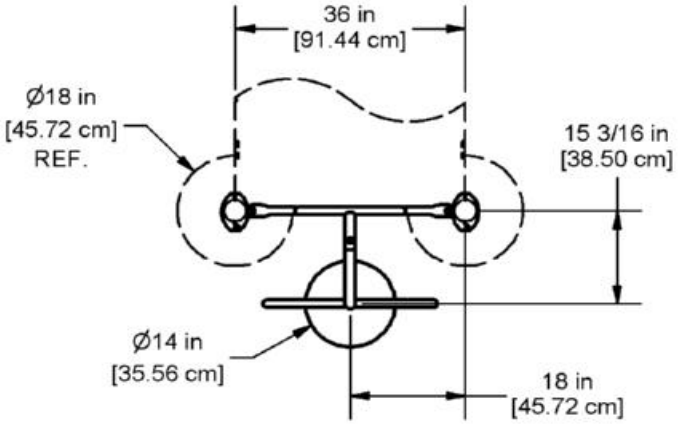
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

⬡ = INSTALLATION DETAIL

Issued/Revised: 11/8/2022

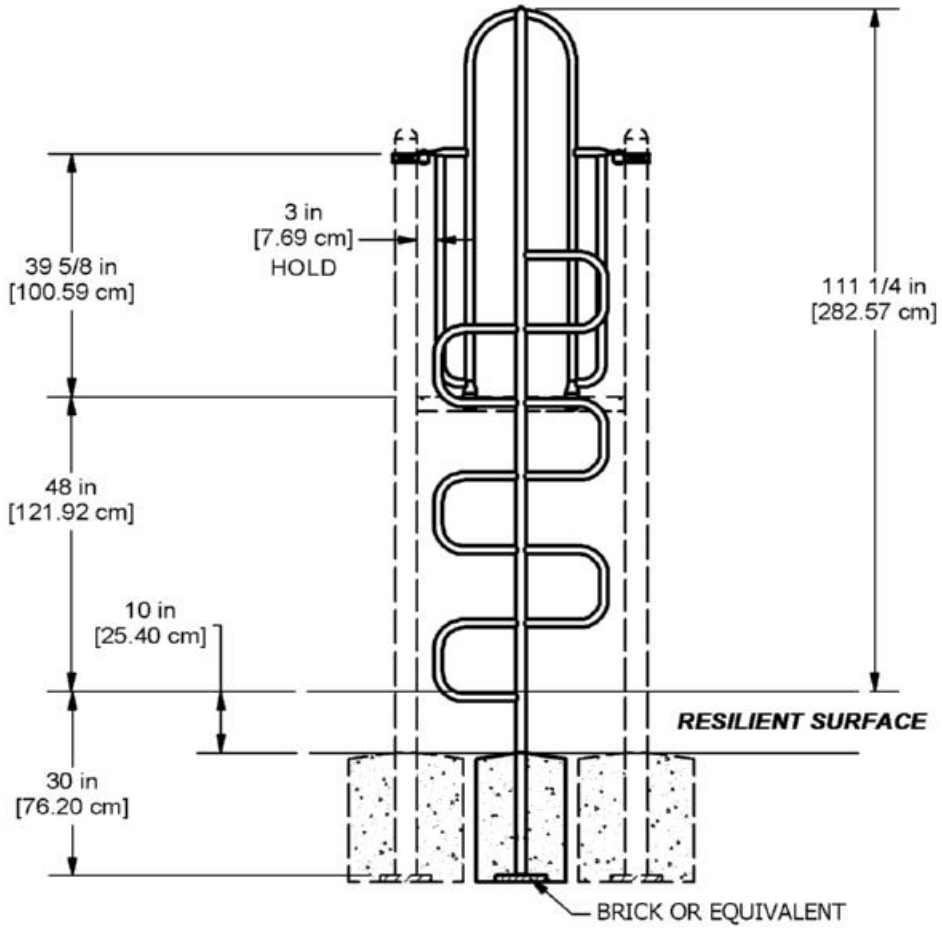
Duramax

62268 LOOP POLE (4' DECK)



PLAN VIEW

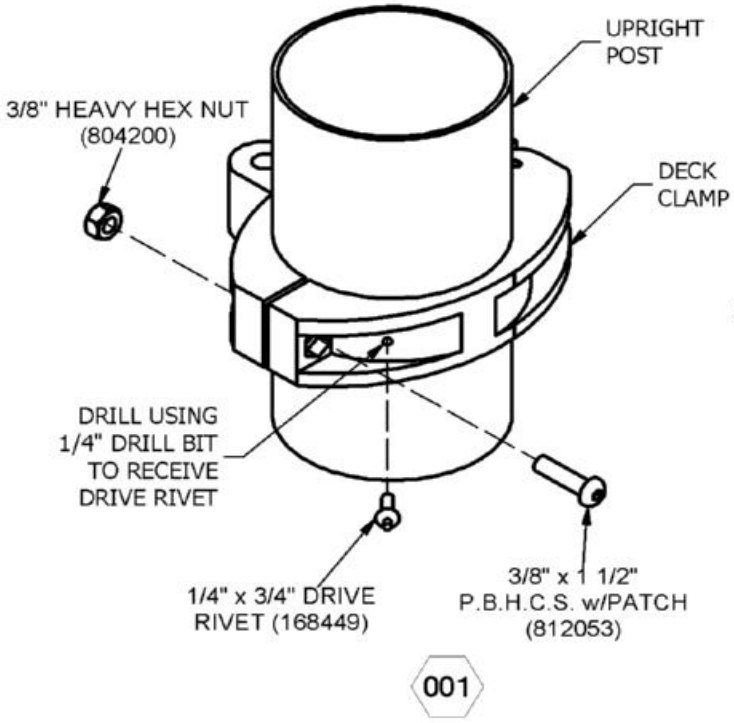
CONCRETE REQUIRED
0.07 CUBIC YARDS
[0.05 CUBIC METERS]

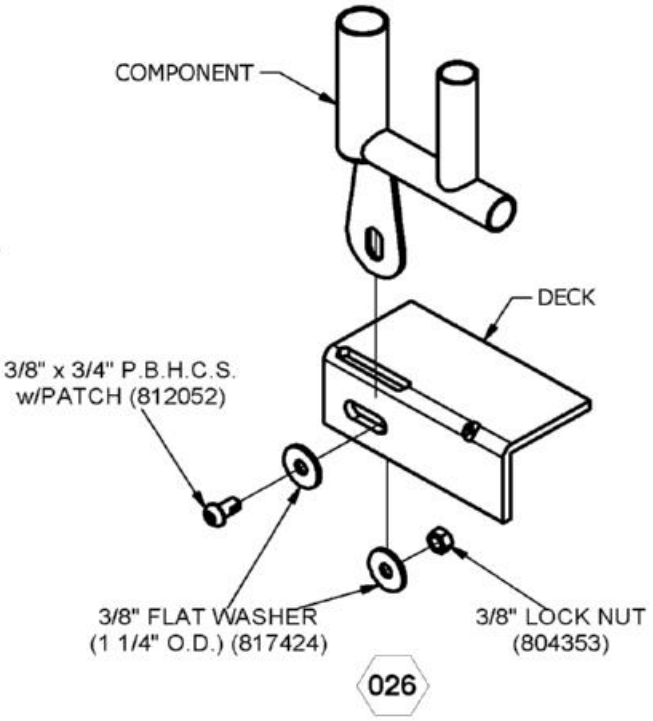


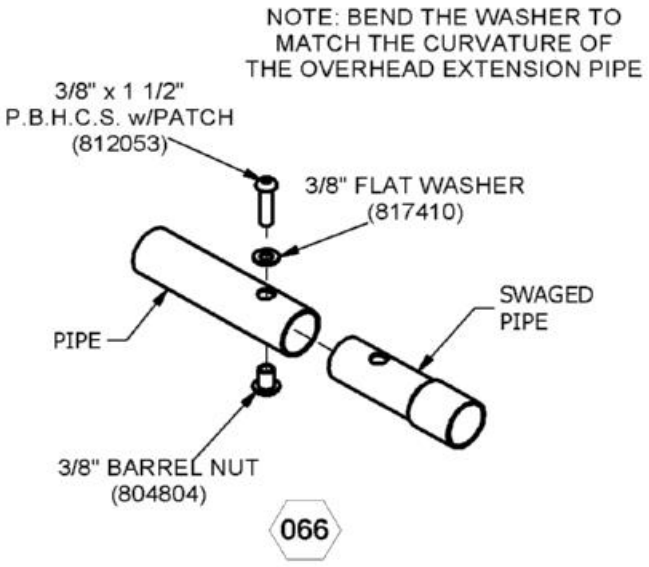
ELEVATION VIEW

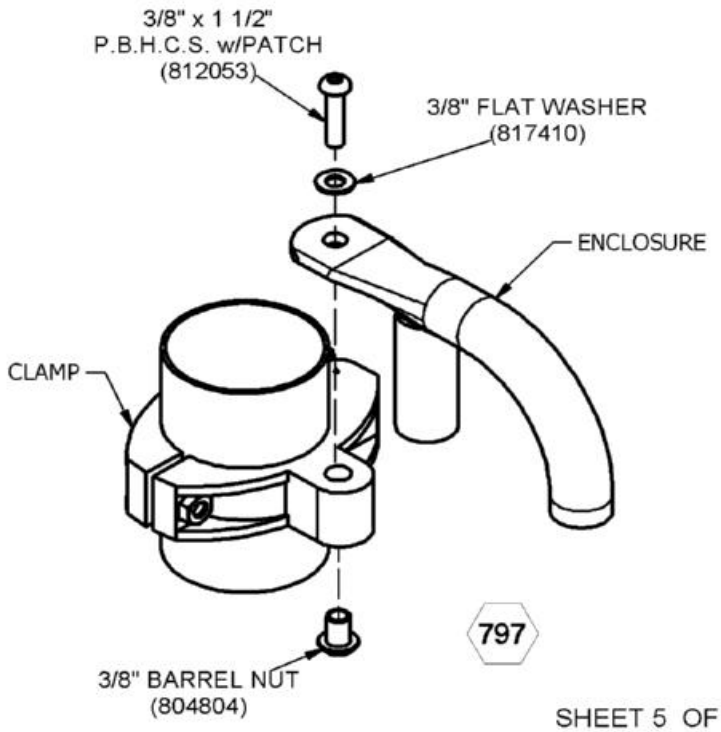
Issued/Revised: 11/8/2022

62268 LOOP POLE (4' DECK)









Issued/Revised: 11/8/2022

Duramax

62345 RETURN STEP

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Return Step	1	306825
Small Kick Plate	1	305741
Support Pipe	2	168470
Hardware Complete	1	307321
3/8" Lock Nut	4	804353*
3/8" Tee Nut	2	804556*
3/8" x 1" P.B.H.C.S. w/Patch	4	812050*
3/8" x 1 3/4" P.B.H.C.S. w/Patch	2	812054*
3/8" Lock Washer	2	817334*
3/8" Flat Washer (1 1/4" O.D.)	10	817424*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***
Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Locate the Triangle Transfer Point to attach the Return Step.

2. Dig Holes to receive the Support Pipes according to dimensions shown in Plan View. Footing Dimension is specified in Elevation View.

3. Attach the Small Kick Plate to the Modular Platform using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut as shown in Detail 106. Note that the Small Kick Plate receded area goes on top and attaches behind deck or platform.

4. Attach the Return Step to the lower part of Small Kick Plate using the same hardware and Detail as in step 3. (Detail 106)

5. Attach the Support Pipes to the lower slots on the sides of the Return Step with 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 ¼" O.D.), and 3/8" Tee Nut. See Detail 124.

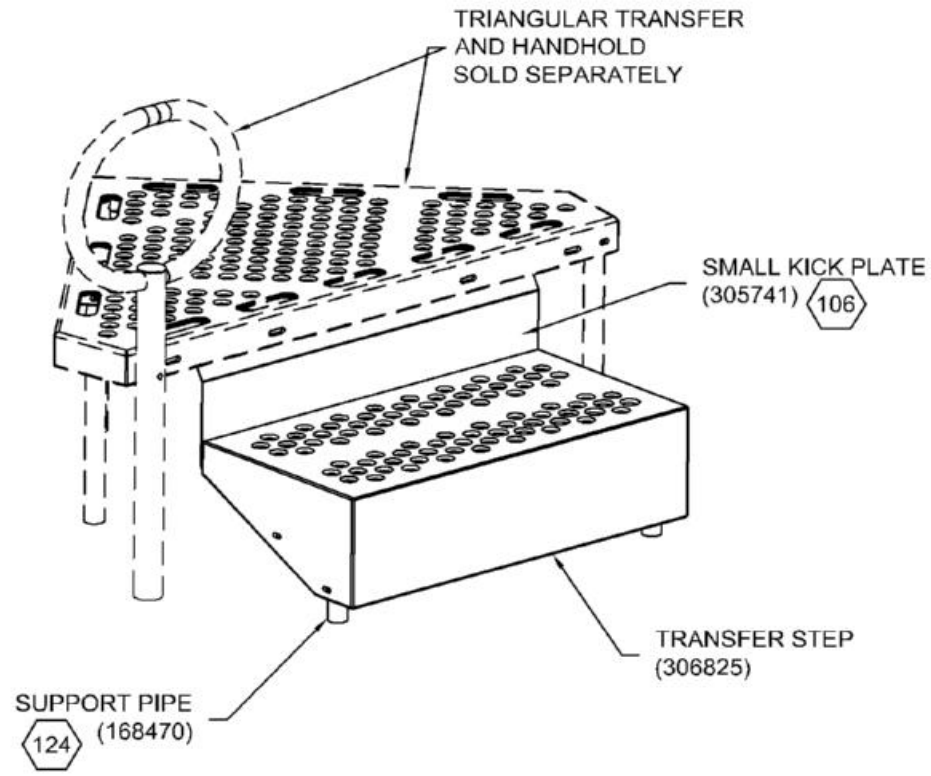
6. Plumb and level the entire assembly. Pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

7. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary, also check if the entrapments and protrusions still satisfactory. Always check all metal parts for paint peeling, corrosion and touch up if necessary. Check all parts for crack, breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

62345 RETURN STEP

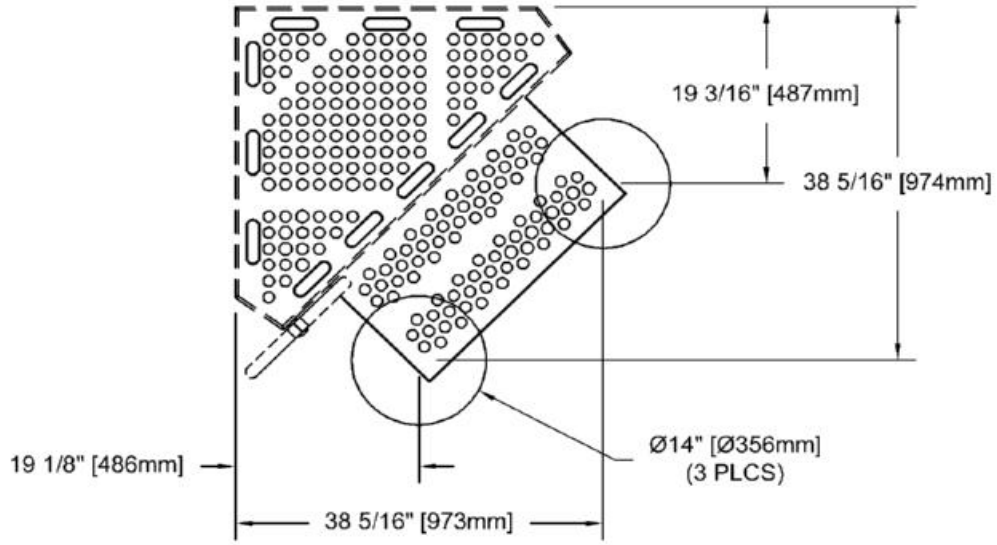


FINISHED ASSEMBLY

=INSTALLATION DETAIL

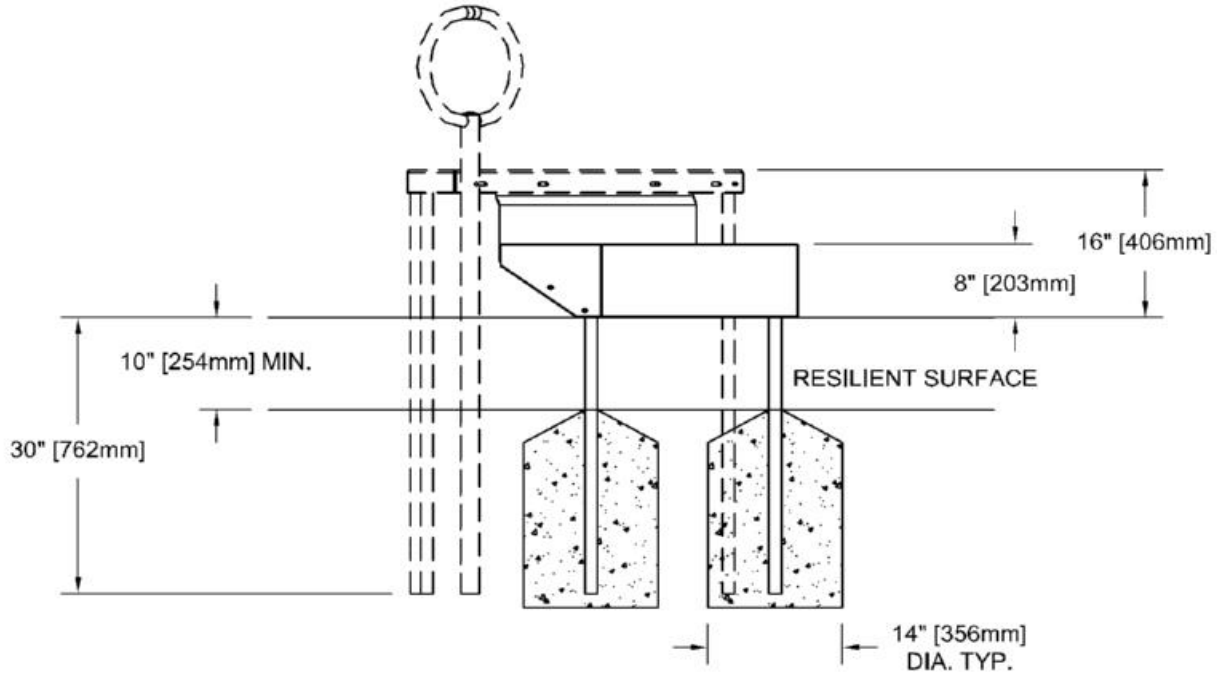
Duramax

62345 RETURN STEP



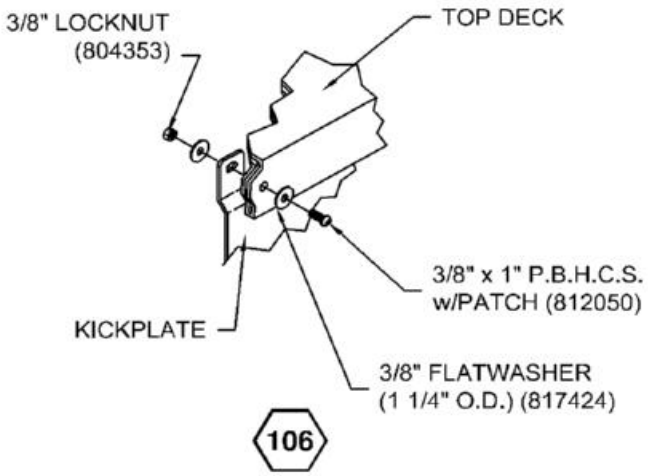
PLAN VIEW

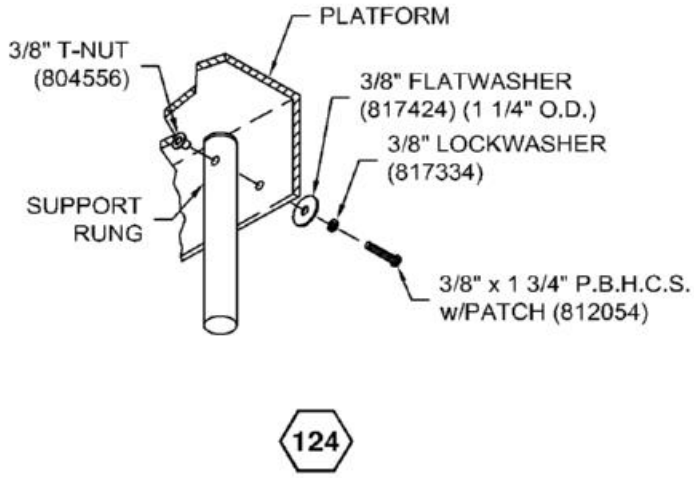
CONCRETE REQUIRED:
.20 CUBIC YARDS
[.15 CUBIC METERS]



ELEVATION VIEW

62345 RETURN STEP





Duramax

62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")

Parts List				
DESCRIPTION	62348	62349	62350	PART NUMBER
UPRIGHT ASS'Y	1	1	1	160662
3 1/2" O.D. DECK CLAMP	2	2	2	301731
HAND HOLD ASS'Y	1	1	1	306838
STAIRS (1'-4" RISE)	1	0	0	307252
STAIRS (2'-0" RISE)	0	1	0	307274
STAIRS (2'-8" RISE)	0	0	1	307281
PLATFORM	1	1	1	309853
HANDRAIL	2	0	0	312656
HANDRAIL	0	2	0	312659
HANDRAIL	0	0	2	312662
ATTACHMENT RAIL	2	2	2	312705
HARDWARE COMPLETE	1	1	1	312708
1/4" x 3/4" DRIVE RIVET	2	2	2	168449
3/8" x 3/4" P.B.H.C.S. w/PATCH	3	3	3	812052
3/8" x 1" P.B.H.C.S. w/PATCH	2	2	2	812050
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	2	2	812051
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	4	4	812053
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	4	812054
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	1	1	1	812056
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	4	4	4	812057
3/8" LOCK WASHER	12	12	12	817334
3/8" FLAT WASHER	2	2	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	8	8	8	817424
3/8" HEAVY HEX NUT	2	2	2	804200
3/8" LOCK NUT	4	4	4	804353
3/8" T-NUT	12	12	12	804556
3/8" BARREL NUT	2	2	2	804804
1/2" FLAT WASHER	4	4	4	817412

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Transfer Module, refer to your overhead drawing for location. Dig footing holes at location and depth shown.

2. Loosely attach 3 1/2" O.D. Deck Clamp to Uprights at noted height using Detail 001. Fasten Attachment Rails to the clamp as shown in Detail 043.

3. Attach Upright Assembly to underside of Platform using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" T-Nuts as shown in Detail 247. Connect Smashed Pipes to bottom edge of the Platform Step using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washers (1 1/4" O.D.), and 3/8" Lock Nuts as shown in Detail 554.

4. Attach the Handhold to side of the Platform using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washers and 3/8" T-Nuts as shown in Detail 125.

5. Position assembly in dug holes and match holes in Stairs to holes in deck and Platform and fasten as shown in Detail 147 at the deck and Detail 984 at the Platform.

6. Then, placing Handrails into dug holes, Attach Handrails to side of steps using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washers, 1/2" Flat Washers, and 3/8" T-Nuts as shown in Detail 599 and attach to Attachment rails using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washers, 1/2" Flat Washers, and 3/8" T-Nuts as shown in Detail 145.

7. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

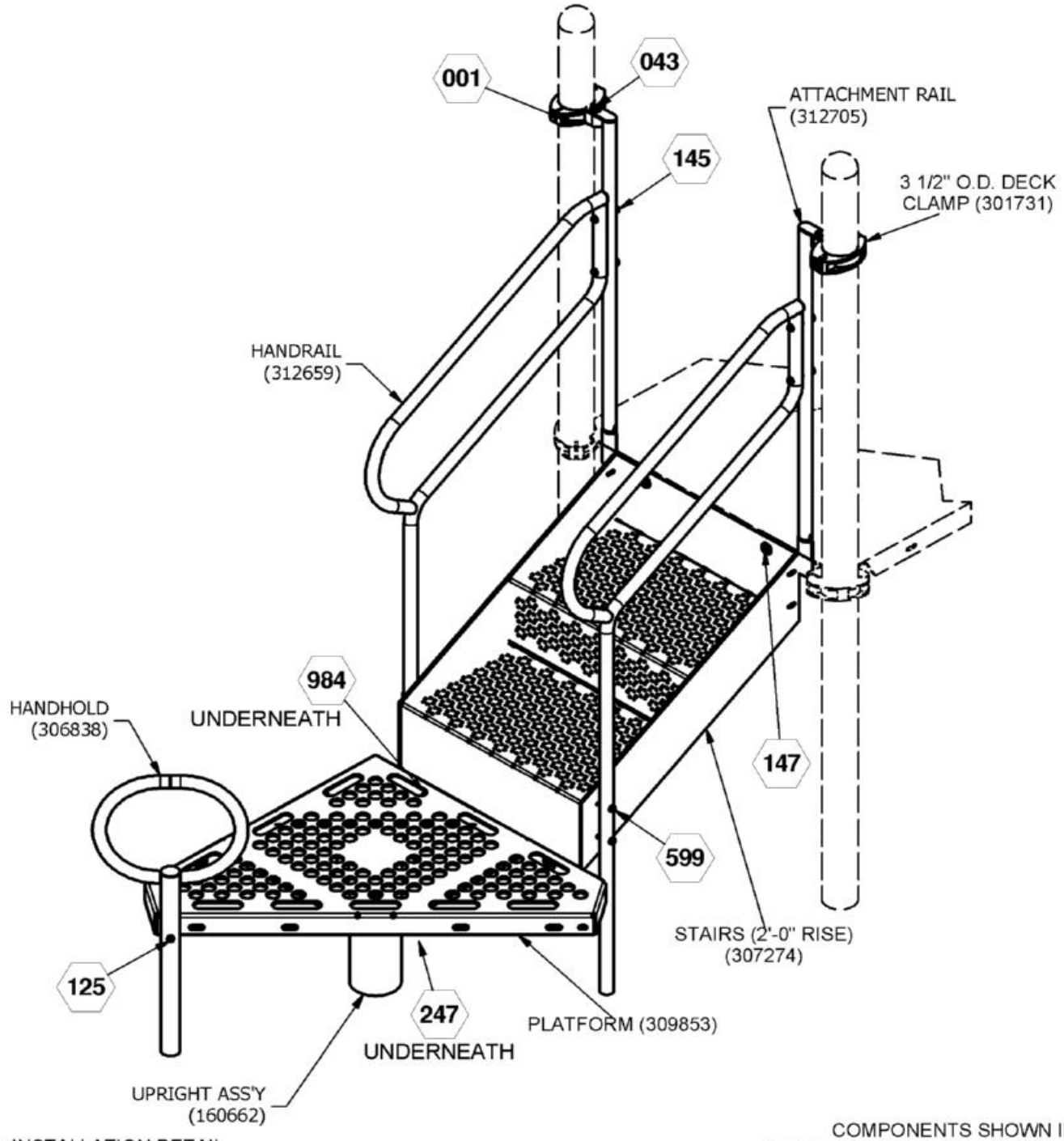
Note: To cushion accidental falls by children, Park Structures strongly recommends that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Duramax

62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")



⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
62349 SHOWN

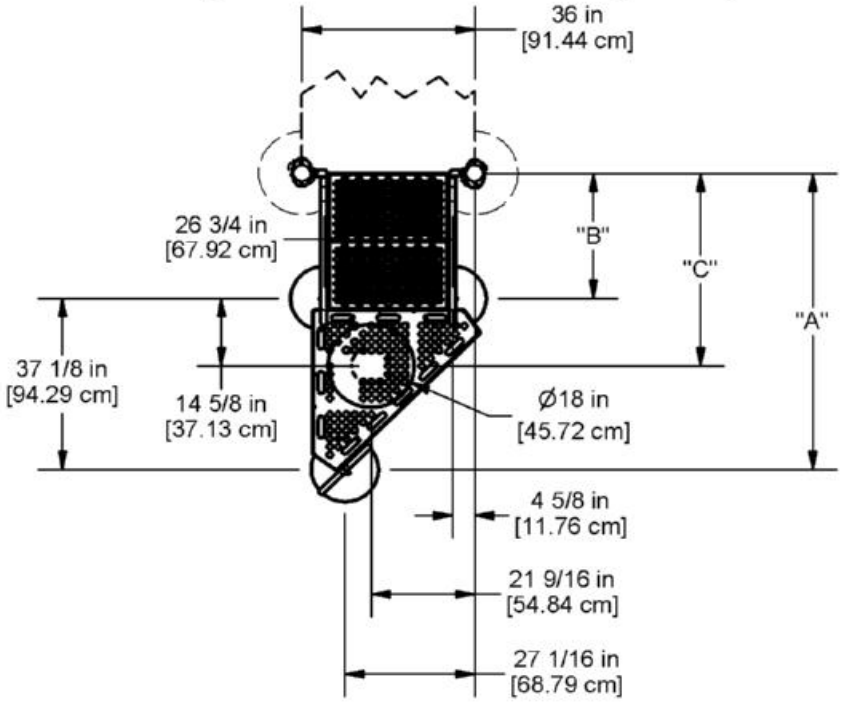
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 2/22/2019

Duramax

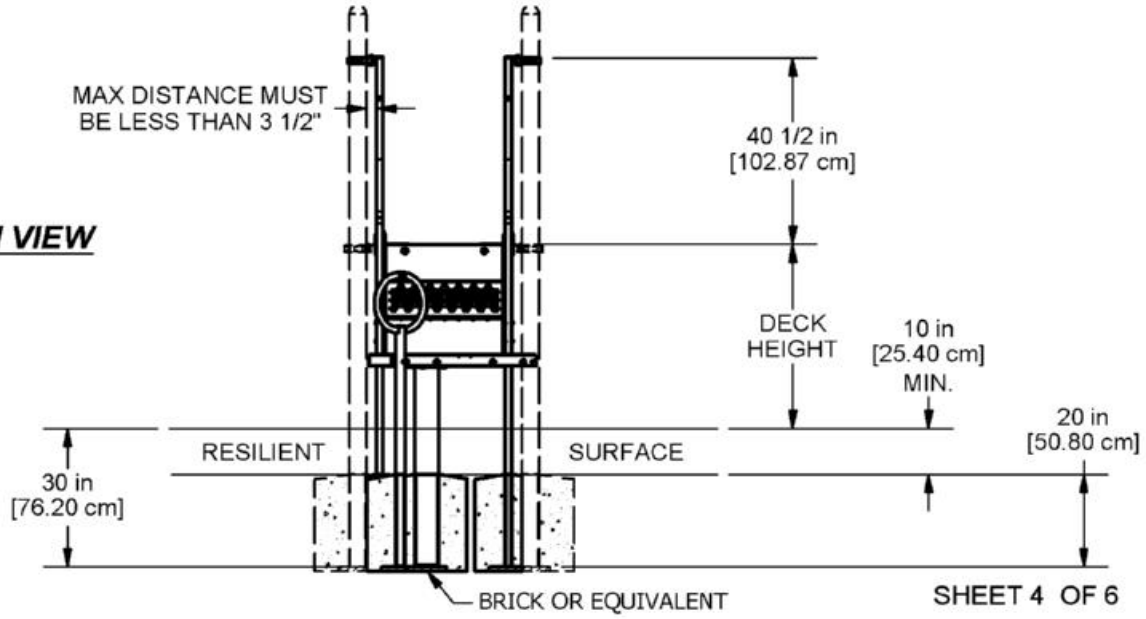
62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")

PLAN VIEW

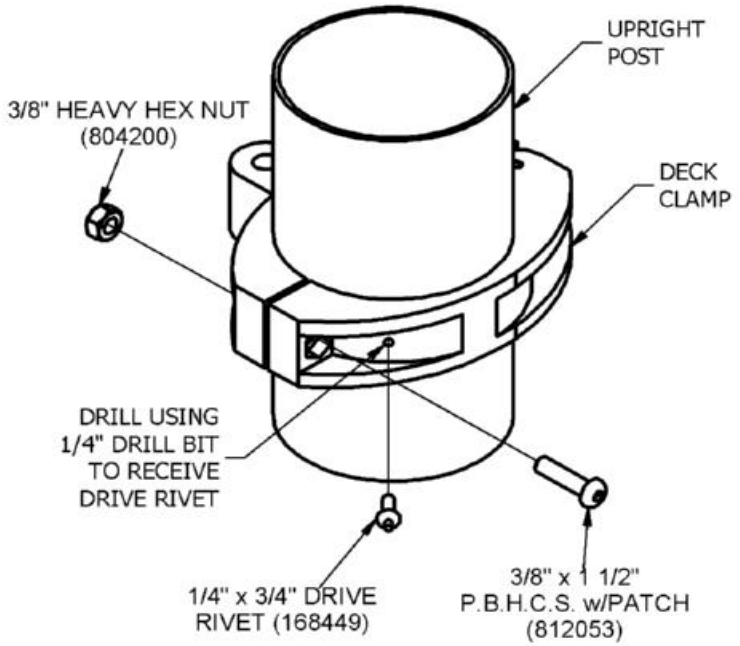


Dimension Table				
Product	Deck Height	Dim. A	Dim. B	Dim. C
62348	32 in [cm]	49 5/8 in [126.05 cm]	12 1/2 in [31.67 cm]	27 1/8 in [68.89 cm]
62349	40 in [cm]	64 5/16" [163.37 cm]	27 3/16 in [68.99 cm]	41 13/16 in [106.21 cm]
62350	48 in [121.92 cm]	79 in [200.68 cm]	41 13/16 in [106.27 cm]	56 1/2 in [143.52 cm]

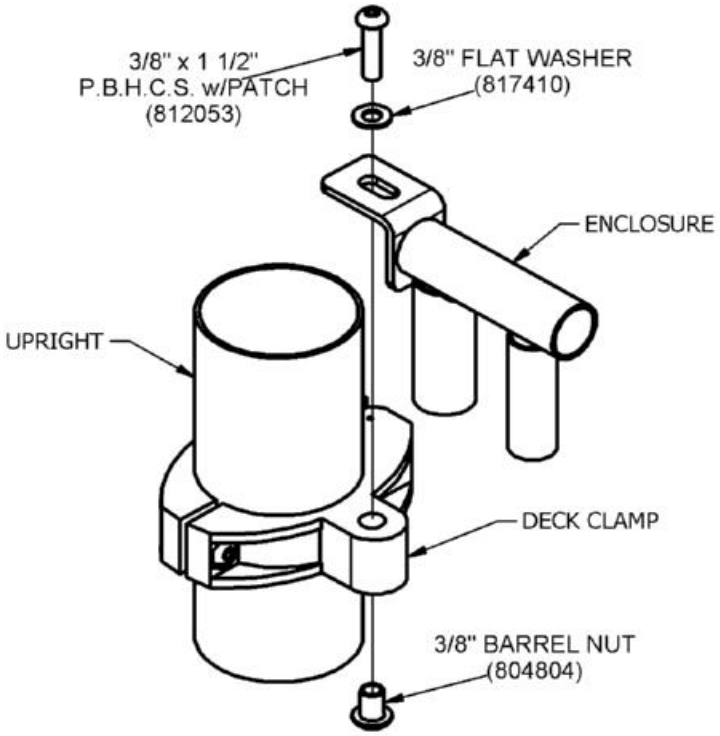
ELEVATION VIEW



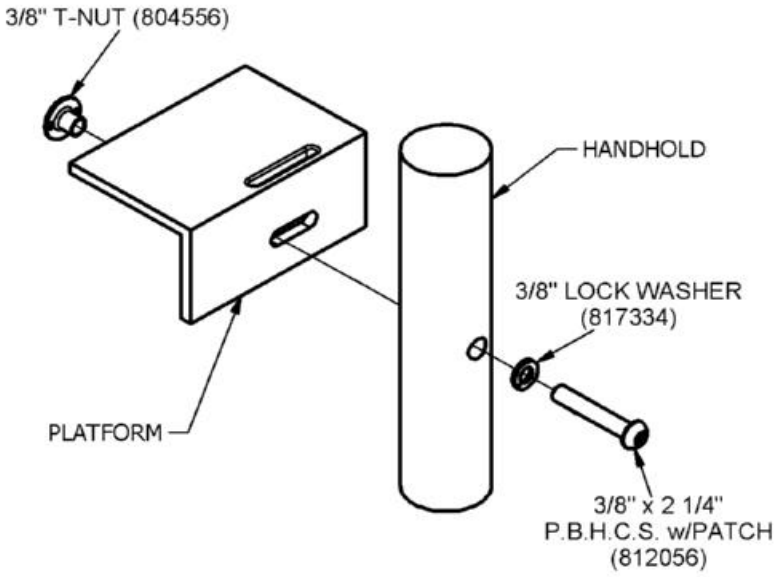
62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")



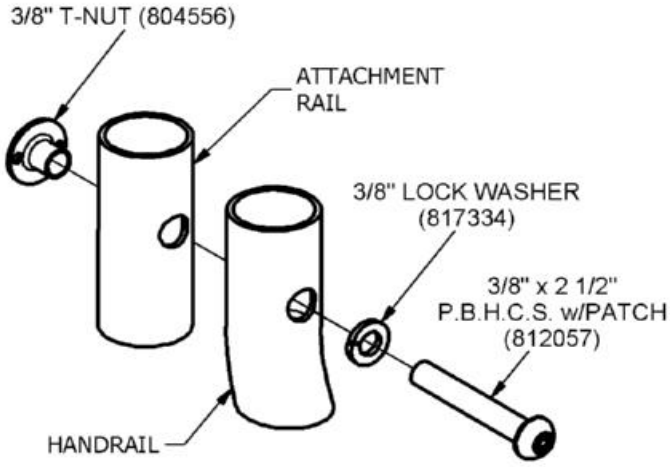
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043

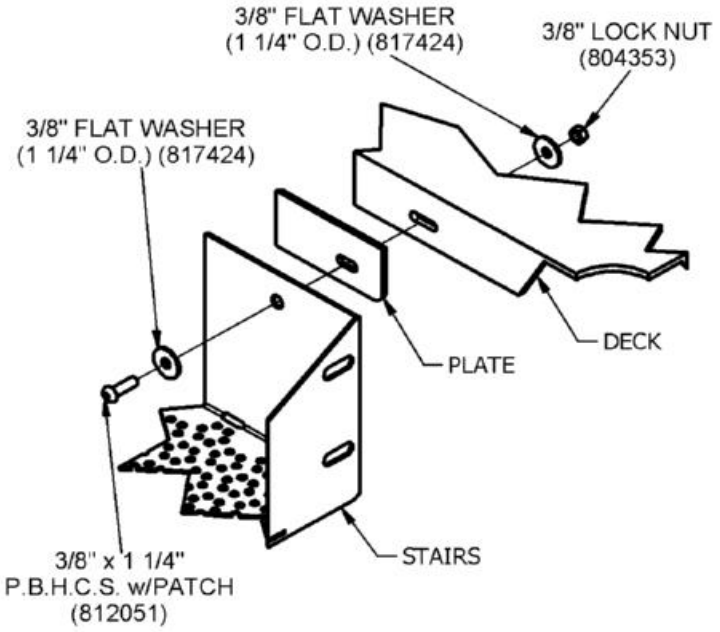


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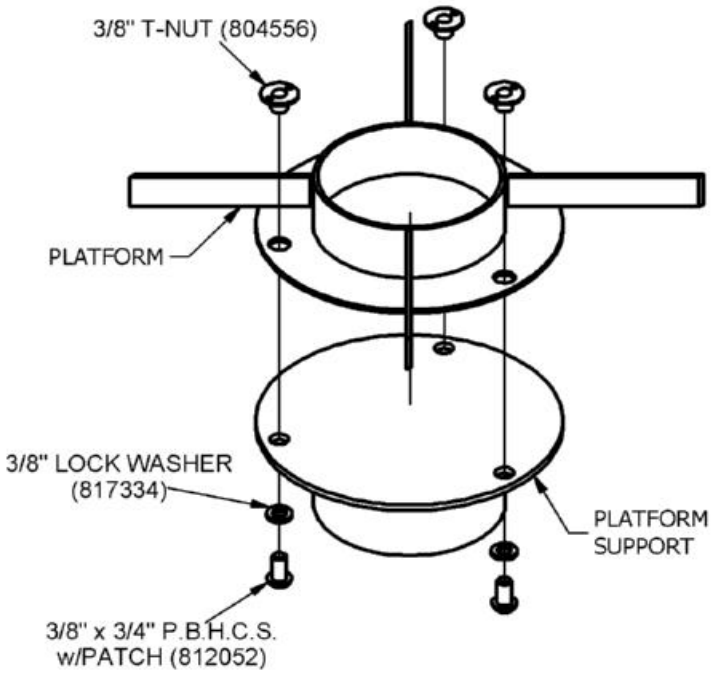


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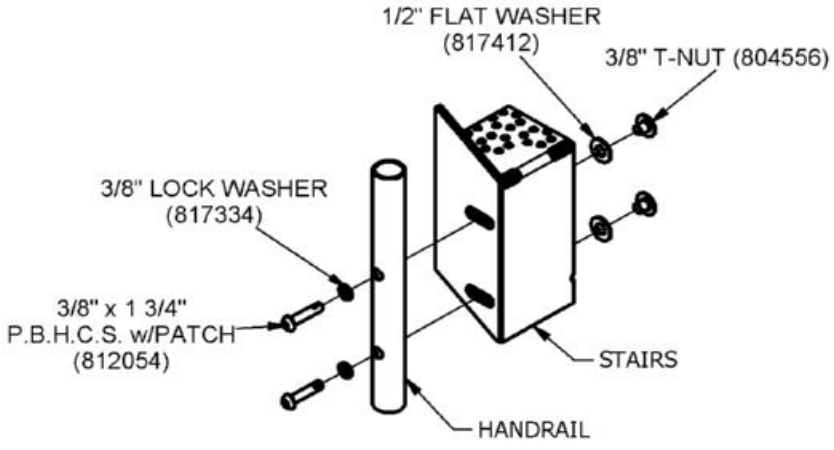
62348 Triangle Transfer Point (2'-8")
62349 Triangle Transfer Point (3'-4")
62350 Triangle Transfer Point (4'-0")



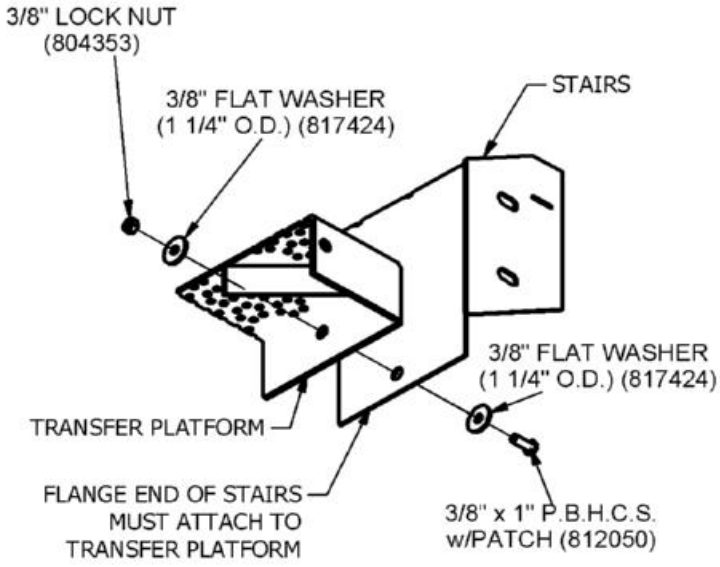
147



247



599



984

Duramax

62372 DOUBLE ACTIVITY PANEL

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Double Activity Panel	1	307781
Smashed Pipe	2	307586*
3 1/2" O.D. Panel Clamp	2	302567*
Hardware Complete	1	307799
1/4" x 3/4" Drive Rivet	2	168449*
3/8" Barrel Nut	2	804804*
3/8" Flat Washer (1-1/4" O.D.)	6	817424*
3/8" Heavy Hex Nut	2	804200*
3/8" Lock Nut	2	804353*
3/8" x 1 1/2" P.B.H.C.S. w/ Patch	2	812053*
3/8" x 1" P.B.H.C.S. w/ Patch	2	812050*
3/8" x 2 1/4" P.B.H.C.S. w/ Patch	2	812056*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on all threaded hardware.

INSTALLATION INSTRUCTIONS:

1. Locate the deck opening to receive the Double Activity Panel. Refer to Top View.

2. Insert the (2) Smashed Pipes through the deck slots and attach using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut as shown in Detail 188. ***Note***: Pipes are smashed to one side. Refer to Detail for orientation.

3. Attach 2 Panel Clamps to the uprights using 3/8" x 1 ½" P.B.H.C.S. w/Patch and 3/8" Heavy Hex Nut. See Detail 052. ***Important:*** Orient the clamps so the hinges face toward the deck. Refer to Elevation and Plan Views for clamp height and orientation.

4. Slide the Double Activity Panel over the smashed pipes and attach to clamps using 3/8" x 2 ¼" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1-1/4" O.D.), and 3/8" Barrel Nut. Refer to Detail 051.

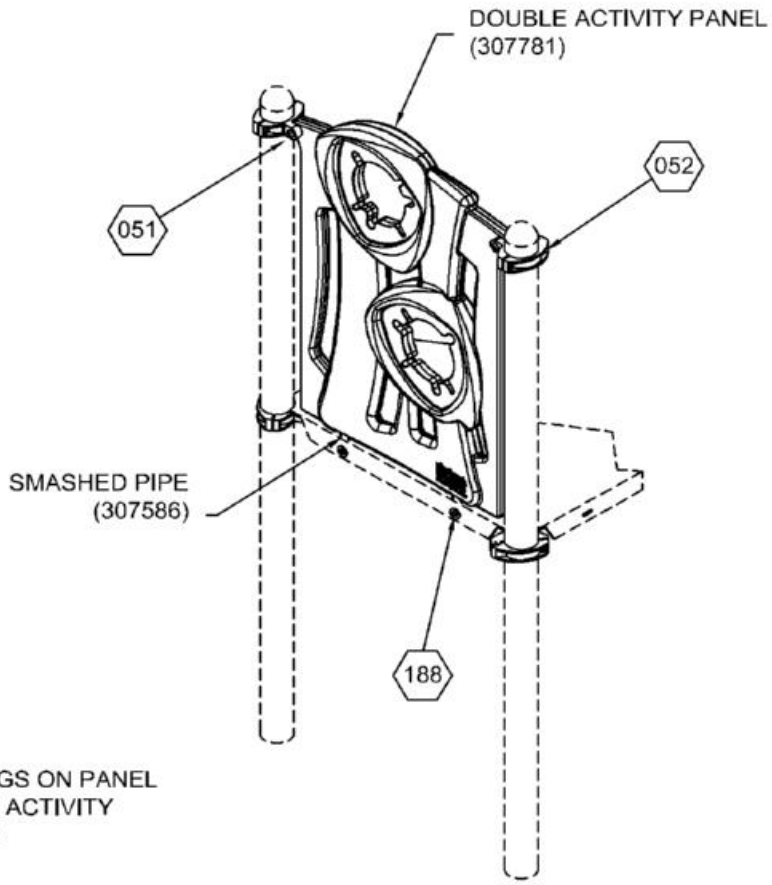
5. Plumb and level the entire assembly.

6. When structure is finished and satisfactory, tighten all fastener and install Drive Rivets in all clamps to ensure clamps cannot slide down the posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety Guidelines.

62372 DOUBLE ACTIVITY PANEL

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



IMPORTANT: ALL OPENINGS ON PANEL MUST BE FILLED WITH AN ACTIVITY BEFORE PLAYGROUND IS OPERATIONAL.

NOTE:
-FOR SMALL ACTIVITIES SEE INSTALLATION SHEET 7200.
-FOR LARGE ACTIVITIES SEE INSTALLATION SHEET 7300.

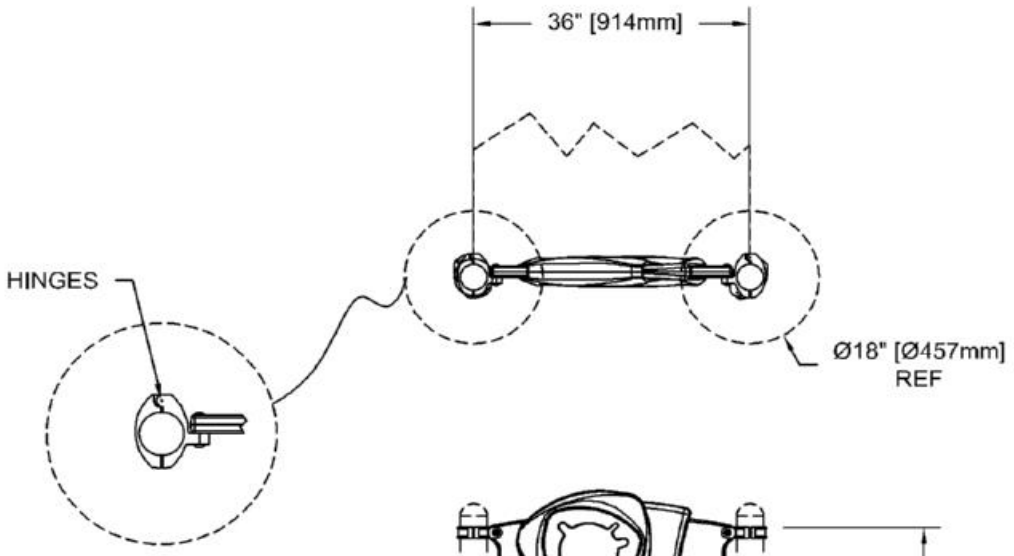
DECKS & POSTS SOLD SEPARATELY

FINISHED ASSEMBLY

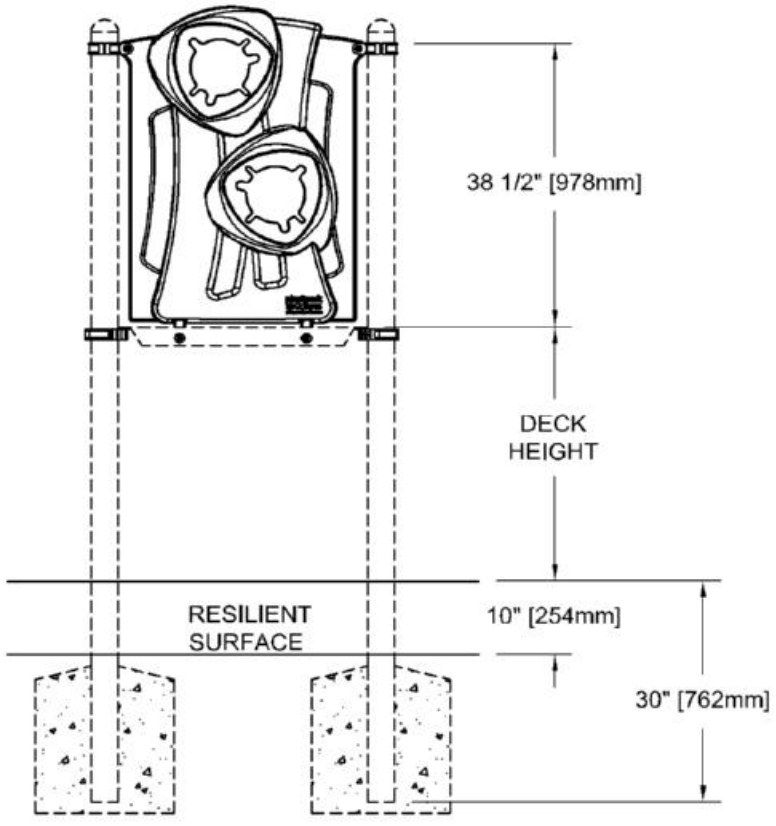
⬡ = INSTALLATION DETAIL

62372 DOUBLE ACTIVITY PANEL

PLAN VIEW

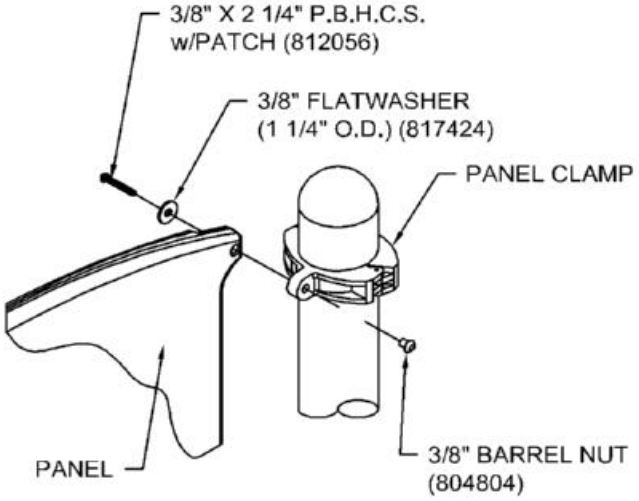


ORIENTATION DETAIL

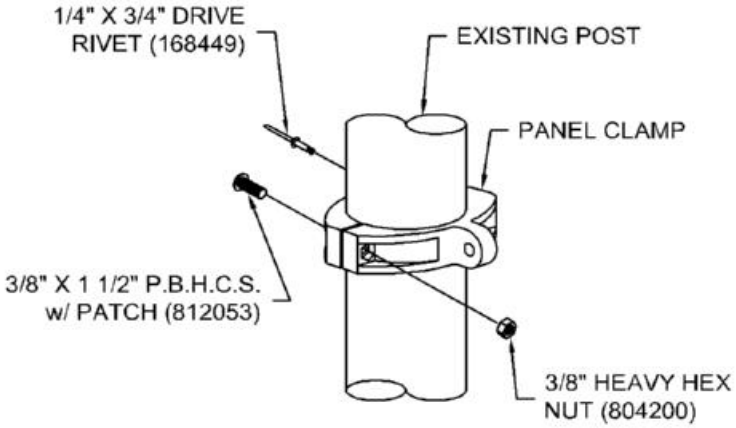


ELEVATION VIEW

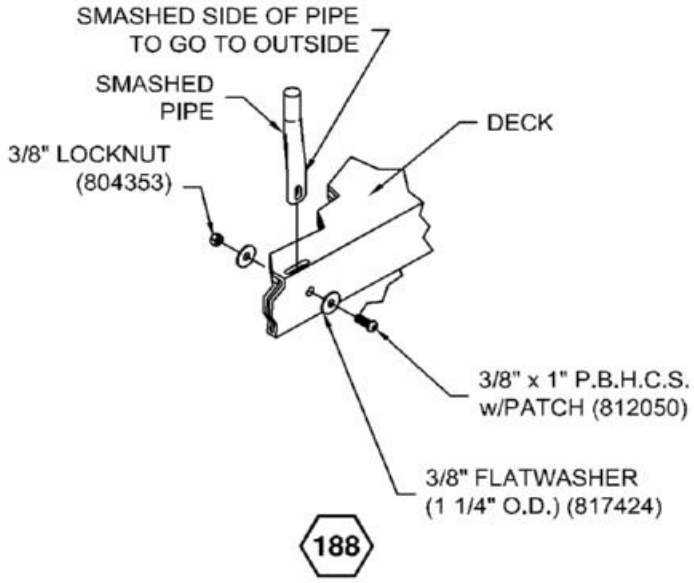
62372 DOUBLE ACTIVITY PANEL



051



052



188

Duramax

63776 Rain Wheel for 3 1/2" O.D. Post

Parts List		
DESCRIPTION	QTY	PART NUMBER
RAIN WHEEL	1	308123
	1	312898
HARDWARE COMPLETE	1	805301*
1/4" x 3/4" DRIVE RIVET	1	168449*
3/8" FLAT WASHER	2	817410*
3/8" HEAVY HEX NUT	2	804200*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051*
3 1/2" HALF CLAMP	1	301765

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which upright is to receive Rain Wheel. Refer to Plan View for location.

2. Attach Rain Wheel and 3 1/2" O.D. Half Clamp to upright using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Heavy Hex Nut. See Detail 726.

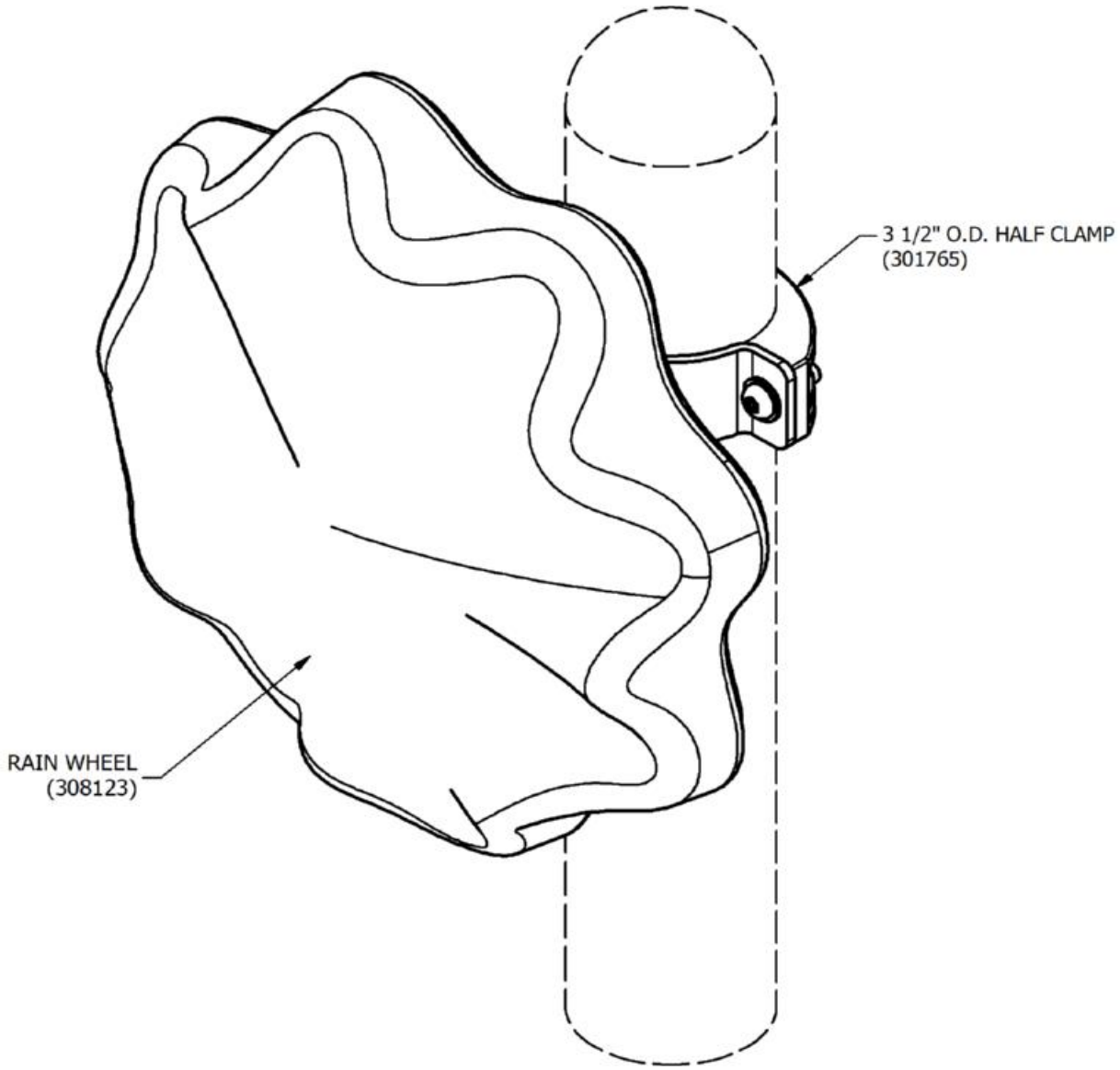
3. Once the assembly is finshed and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts.

4. Eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. See Clamp sub-assembly sheet. ***It is very impertant that all Drive Rivets be installed before allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

63776 Rain Wheel for 3 1/2" O.D. Post

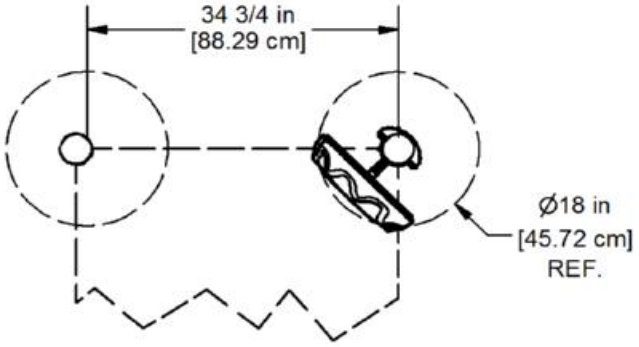


FINISHED ASSEMBLY

⬡ = INSTALLATION DETAIL

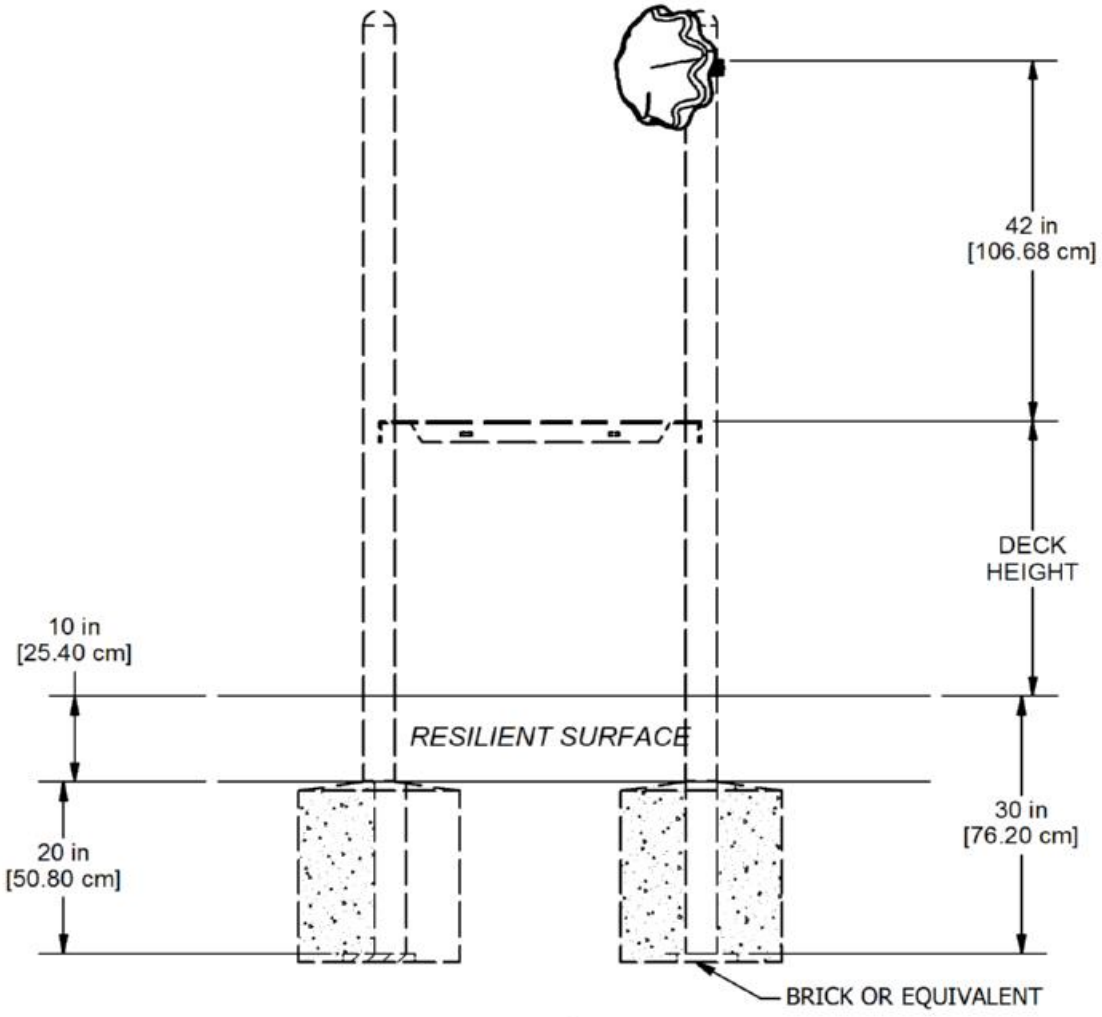
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

63776 Rain Wheel for 3 1/2" O.D. Post



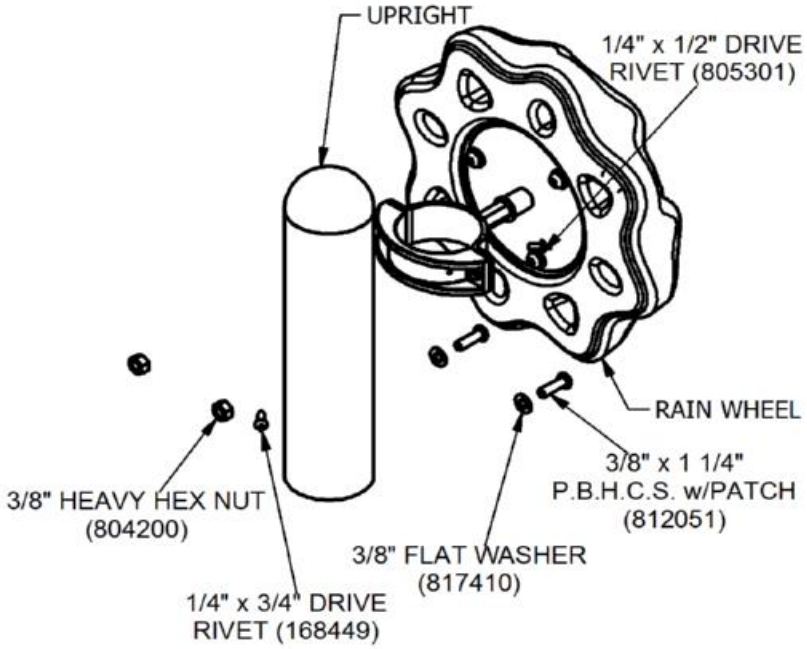
PLAN VIEW

Height will vary depending on adjacent components.



ELEVATION VIEW

63776 Rain Wheel for 3 1/2" O.D. Post



726

ParkPlay Free Standing

65130 LEAF HOP

Parts List		
DESCRIPTION	QTY	PART NUMBER
LEAF HOP ASSEMBLY	1	311894
LEAF	7	311896
GROUND PIPE	2	311898
3 1/2" DOME CAP	2	212995
HARDWARE COMPLETE	1	311892
3/8" x 1" P.B.H.C.S. w/PATCH	28	812050*
3/8" x 2" P.B.H.C.S. w/PATCH	4	812055*
3/8" LOCK WASHER	4	817334*
3/8" FLAT WASHER	56	817410*
3/8" LOCK NUT	28	804353*
3/8" T-NUT	4	804556*
3/16" x 13/32" DRIVE RIVET	4	805366*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Pod Pipe Link Frame is fabricated from 3-1/2" O.D., 2-3/8" O.D. galvanized steel tubing with galvanized sheet for flanges. All welding is steel. Aluminum Caps are factory riveted with a matching frame color. Panel is cut from a solid sheet of high-density .850" thick extruded polyethylene with color molded in and UV-stabilized.

Primary hardware is stainless steel.

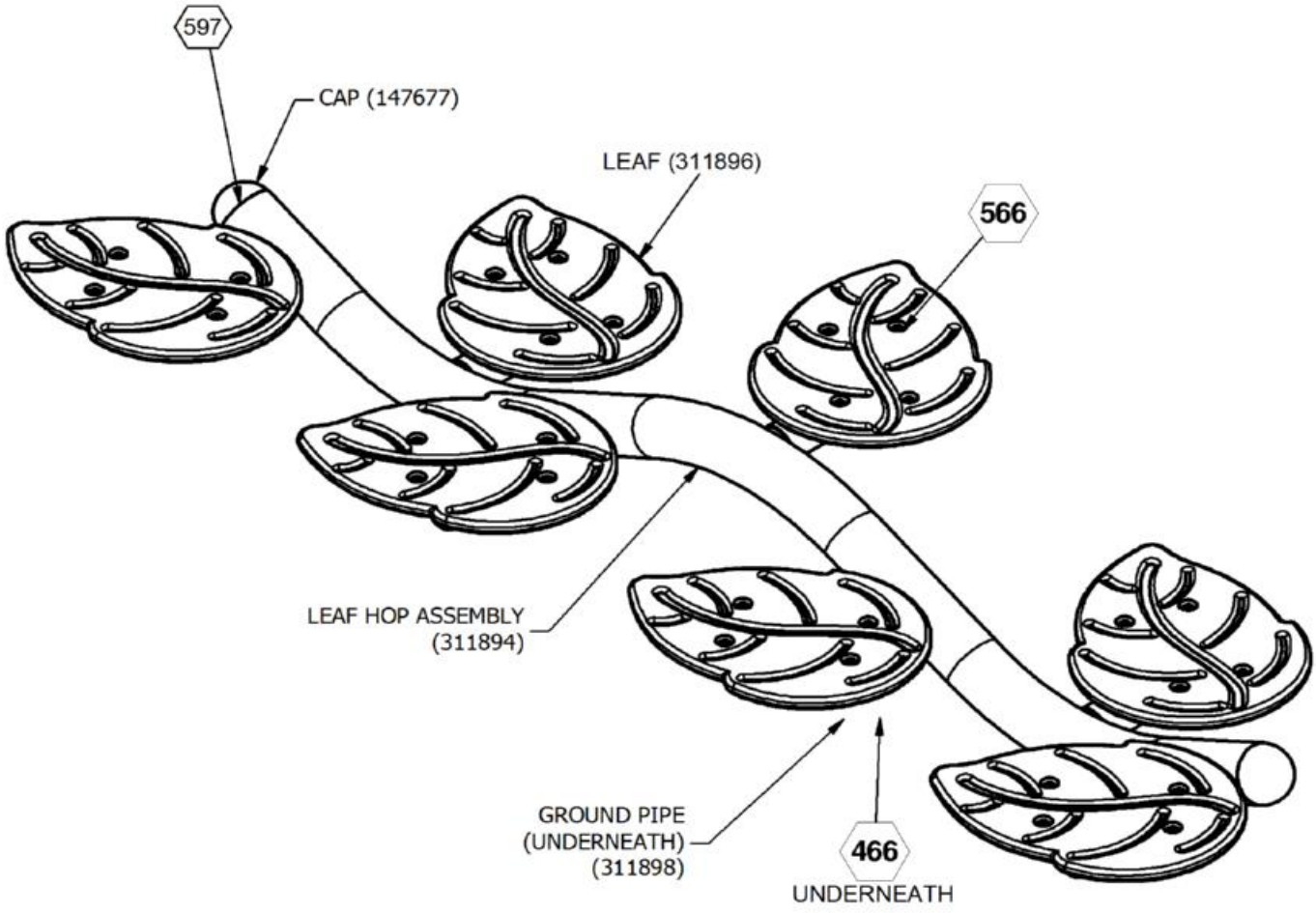
INSTALLATION INSTRUCTIONS:

1. Dig footings as shown in the Footing Diagram. Refer to your overhead drawing for location.
2. Attach Leaf to Leaf Hop Assembly using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washers, and 3/8" Lock Nut. See Detail 566.
3. Attach Leaf Hop Assembly to Ground Pipe using 3/8" x 2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" T-Nut. Bend T-Nut to match radius of pipe after assembling. See Detail 466. Attach Caps to Leaf Hop Assembly using Detail 597.
4. Plumb and level the entire frame and pour concrete footings within 4" to the top of posts and taper away for water drainage. Allow to cure at least 48" hours before use.
5. Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65130 LEAF HOP

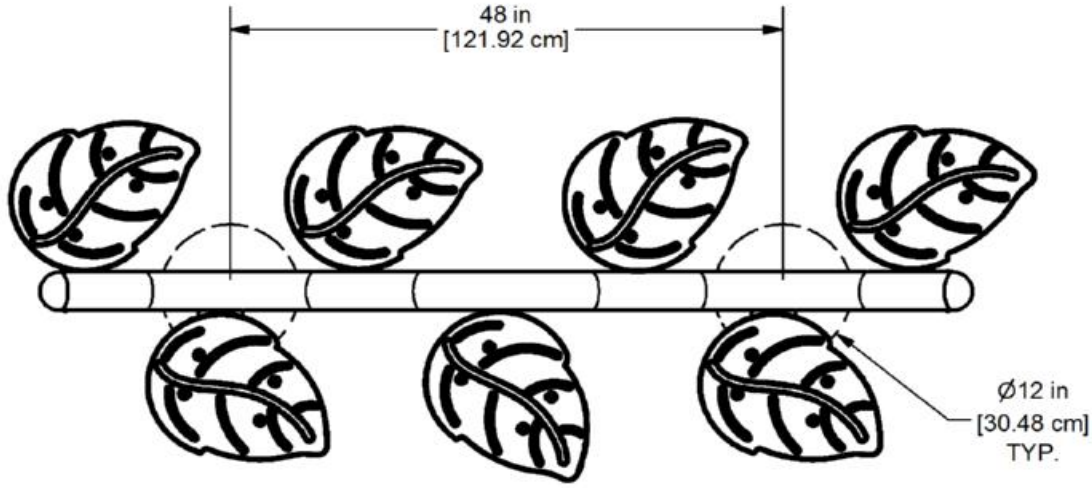


FINISHED ASSEMBLY

⬡ = INSTALLATION DETAIL

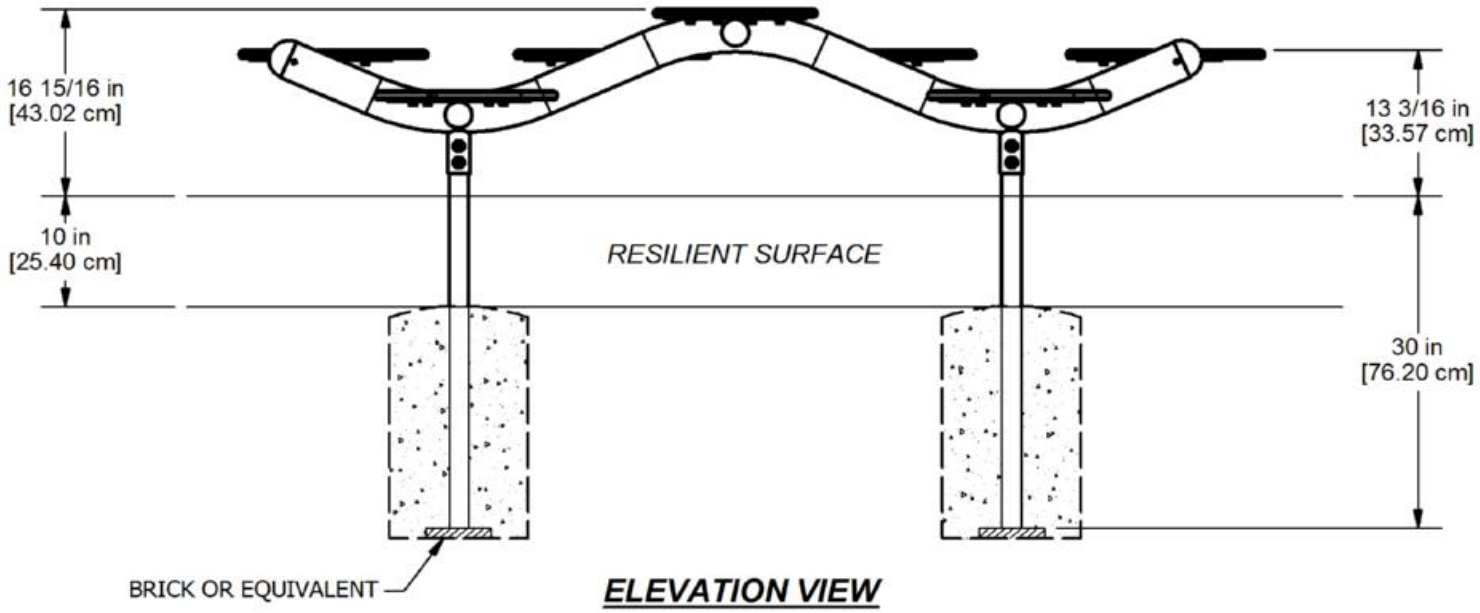
ParkPlay Free Standing

65130 LEAF HOP



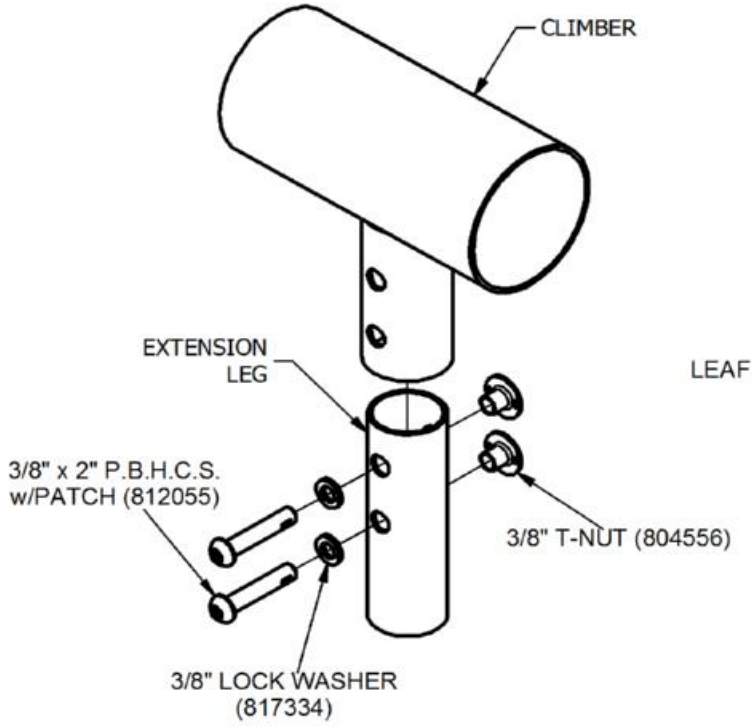
PLAN VIEW

CONCRETE REQUIRED
0.368 CUBIC YARDS
0.282 [CUBIC METERS]

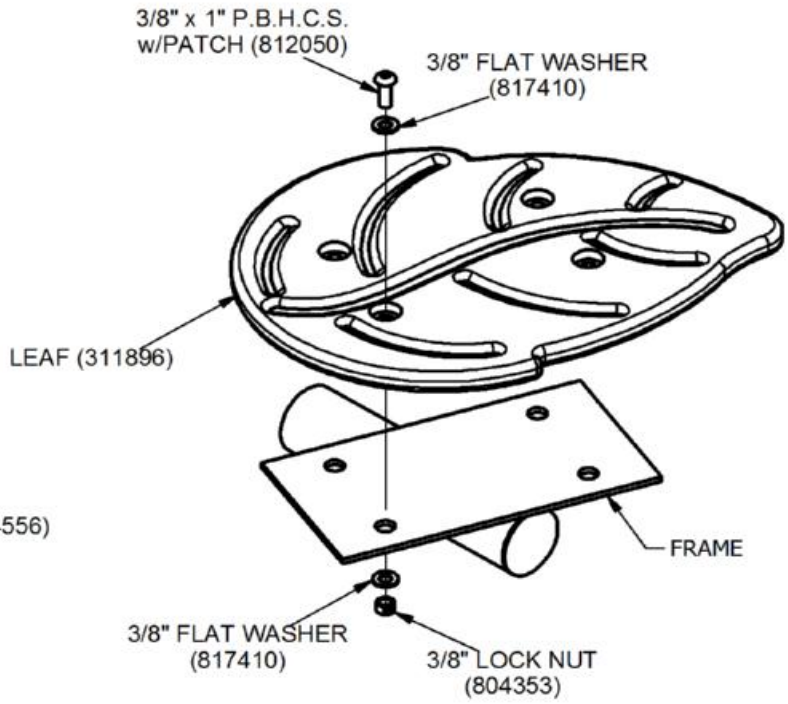


ELEVATION VIEW

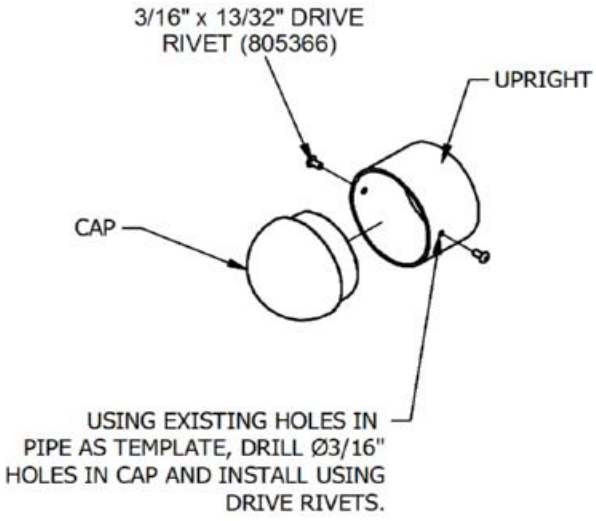
65130 LEAF HOP



466



566



597

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12

Parts List				
DESCRIPTION	65288	65290	65291	PART NUMBER
HPL WELCOME SIGN 5 - 12	1	0	0	316380
HPL WELCOME SIGN 2 - 5	0	1	0	316628
HPL WELCOME SIGN 2 - 12	0	0	1	316629
WELCOME SIGN WELDMENT	1	1	1	316382
HARDWARE COMPLETE	1	1	1	316385
1/4" x 1/2" B.H.C.S. w/PATCH	3	3	3	812011
1/4" LOCK WASHER	3	3	3	817327
1/4" FLAT WASHER (5/8" O.D.)	3	3	3	817408
1/2" ANCHOR ROD	1	1	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

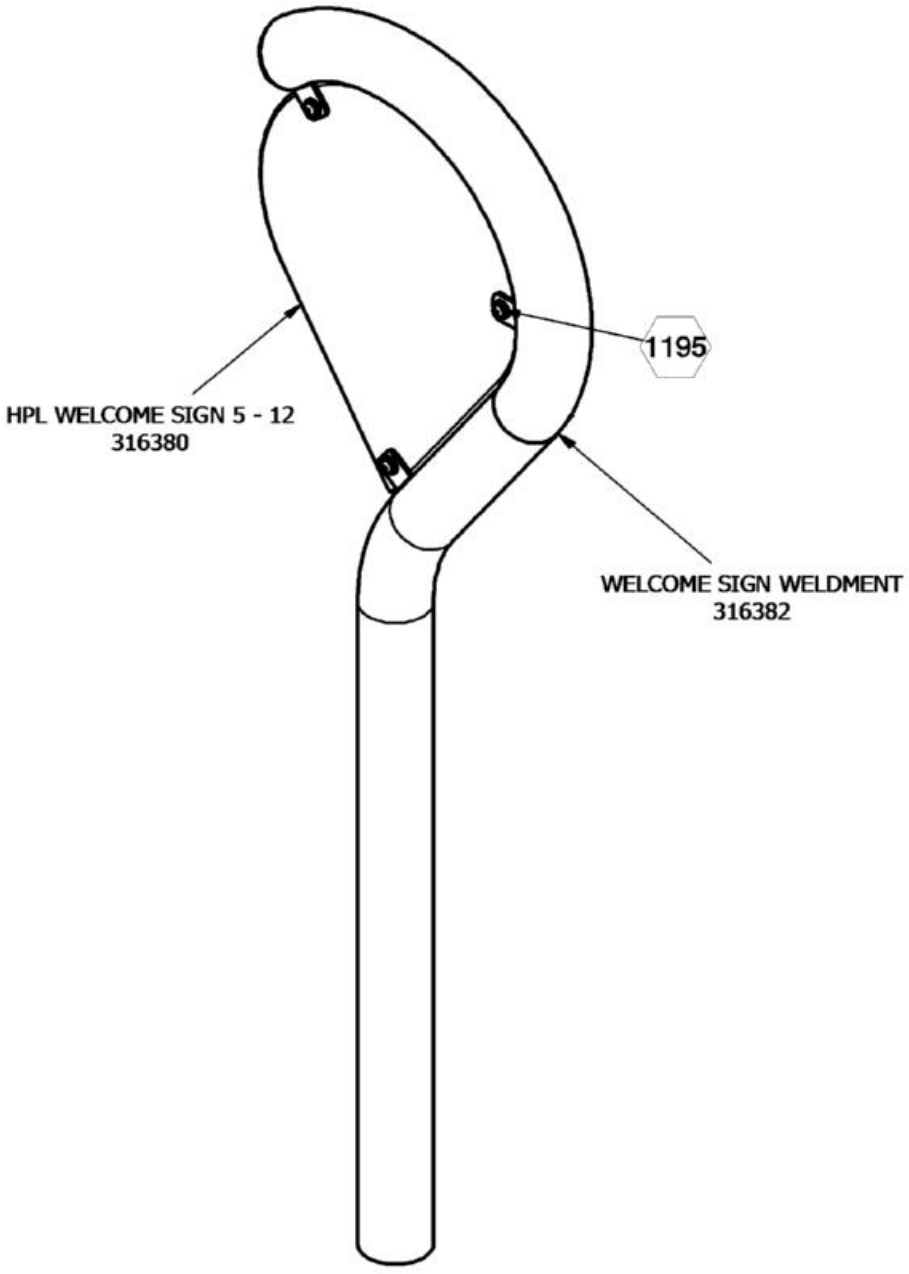
INSTALLATION INSTRUCTIONS:

1. Determine location of Welcome Sign and dig footing hole. Refer to order Top View and Elevation View.
2. Attach the H.P.L. Welcome Sign to the Welcome Sign Weldment. See Detail 1195.
3. Place Welcome Sign Weldment into footing hole.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After the entire unit is assembled, pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure for at least 48 hours before use. Note: Temporary bracing may be required until concrete cures.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



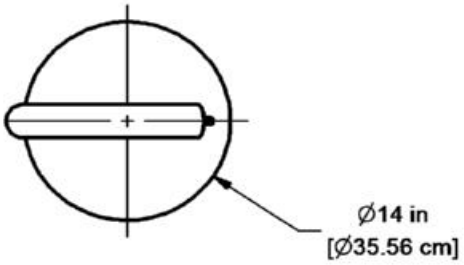
⬡ = INSTALLATION DETAIL

Issued/Revised: 6/1/2023

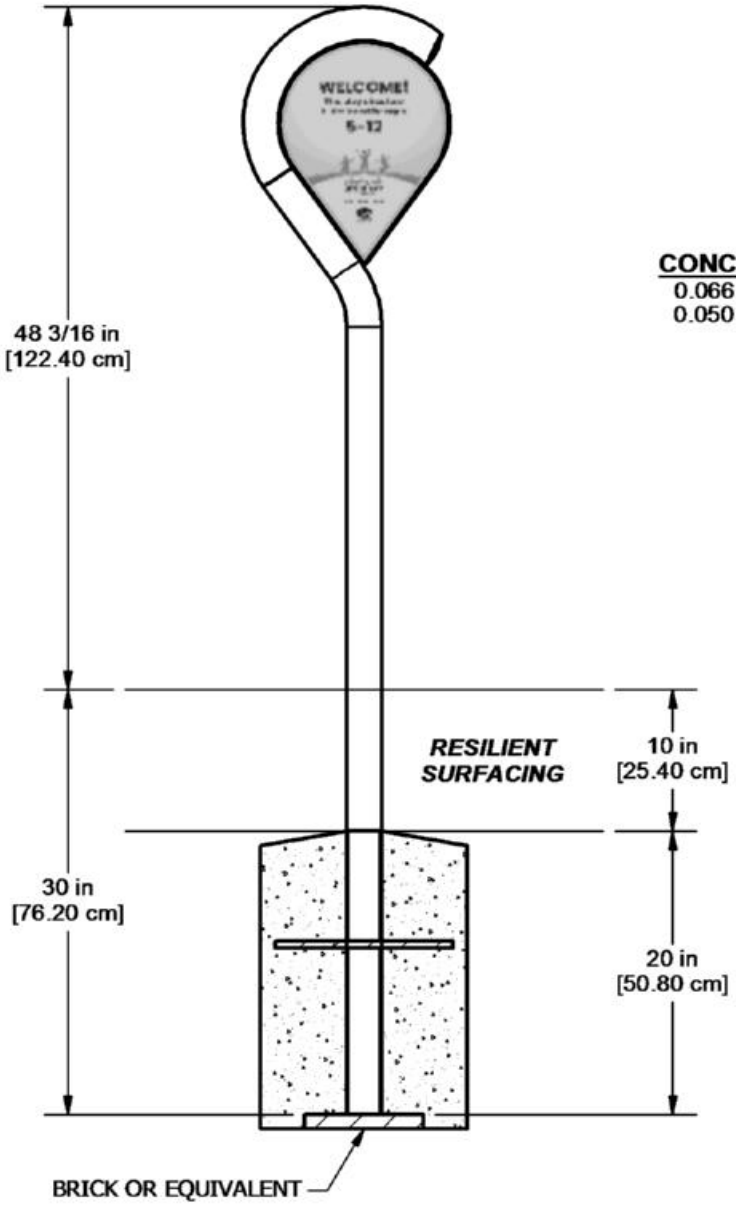
FINISHED ASSEMBLY

65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



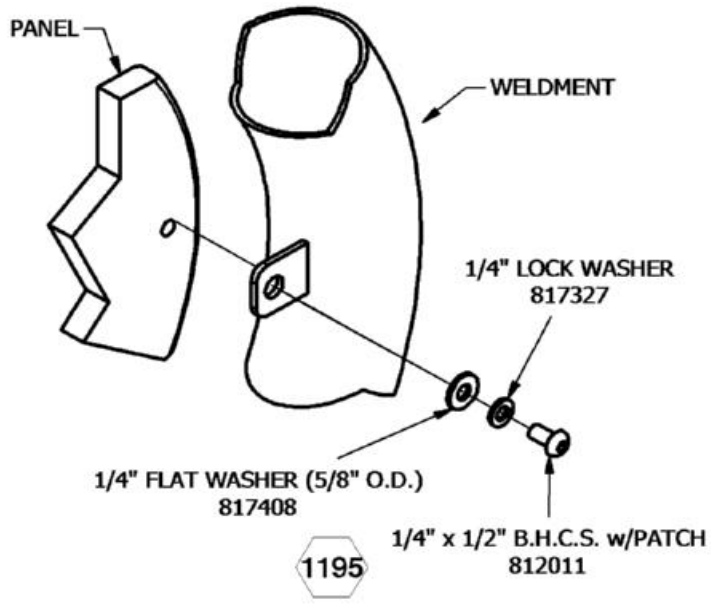
PLAN VIEW
65288 SHOWN



CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

ELEVATION VIEW
65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

PARTS LIST

DESCRIPTION	NO. REQ'D 67558	NO. REQ'D 67620	PART NUMBER
3-1/2" O.D. Toprail	1	1	168622
Arch End Upright Ass'y	2	0	152803
Multi-Bay Arch Upright Ass'y	0	1	152805
Hardware Complete	1	1	303587
1/2" x 4" Hex Bolt	2	2	801215*
1/2" Lockwasher	2	2	817342*
1/2" Hex Nut	2	2	804055*
1/2" Flatwasher	2	2	817412*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

Primary hardware is stainless steel.

INSTALLATION INSTRUCTIONS:

1. Refer to your site plan; select the area where the Arch Swing will be installed. Note that although the actual area of the Toprail are 3'-4" X 12'-9" a minimum of 16' is required in front of and behind swing, and 6' is required to each side, for a total of 32' X 24'-5". This area should be clear of all obstacles and contain an appropriate resilient surface material. Please refer to your *Safety Guidelines* for more information.

2. Dig footings spaced as shown on the diagram. Footing diameters should be 24". Calculate depth depending on the amount of resilient surfacing which will be installed. A depth of 10" resilient surfacing is shown on the elevation view. If you determine that less than 10" of surfacing is required, make up the difference with earth before applying surfacing.

3. Set the Post Arches in to their footing and block in position with sleeves facing each other.

4. Attach Swing Beams to the post arches as shown in detail 'A' and temporarily secure with a 1/2" x 4" Hex Head Bolts each sleeve. Adjust post arches heights so that the top beam is 8'-1 3/4" above the finished ground level.

5. Square and level entire Swing Beam assembly. When satisfactory, fully tighten all bolts and follow support post instructions for concrete. DO NOT ATTACH SEAT SWING ASSEMBLIES UNTIL RESILIENT SURFACING HAS BEEN INSTALLED.

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

6. ONLY AFTER ALL RESILIENT SURFACE MATERIAL HAS BEEN INSTALLED, attach the Swing Seat Packages to the top beams as instructed on Installation Sheet for Swing Seats. FULLY CRIMP SHUT ALL 'S' HOOKS as per specification by ASTM F 1487 for Entanglement.

7. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

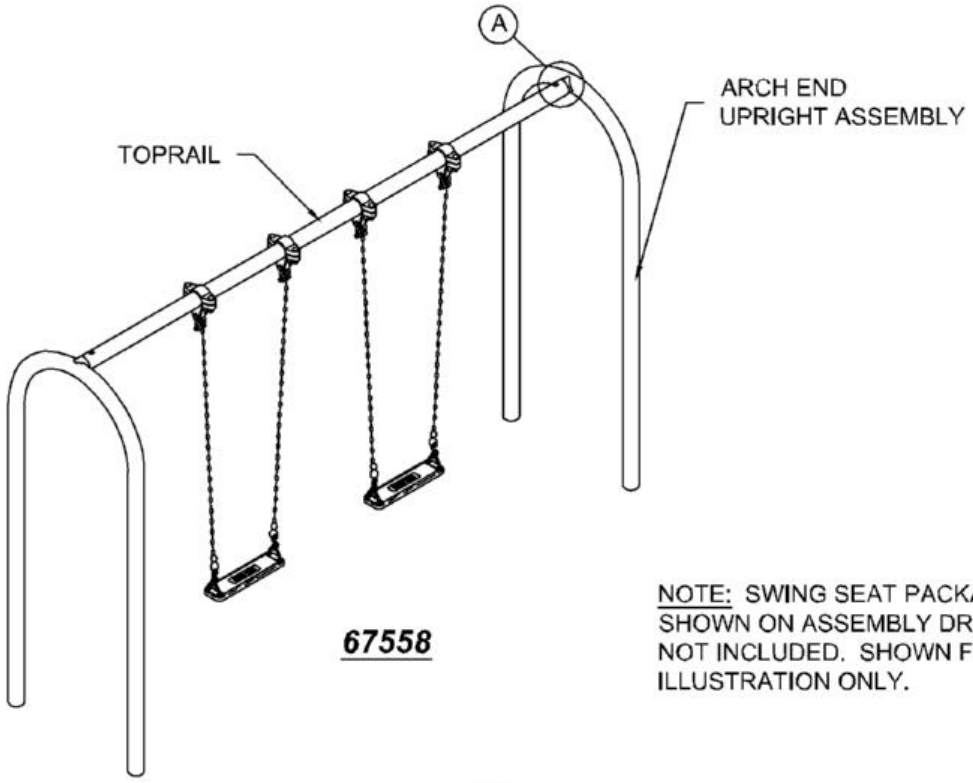
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check 'S' Hooks at both ends and all connection points for wear. Check all moving parts such as bushings, hangers and chain for wear. Check opening on 'S' Hooks for entanglement as specified by ASTM F-1487 Section 6.3. Check Strap seats for cracks, breakage or wear, and verify proper height. Check Chains for integrity and corrosion. Check connections for excessive wear and replace immediately if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Model No: _____

Desc: _____

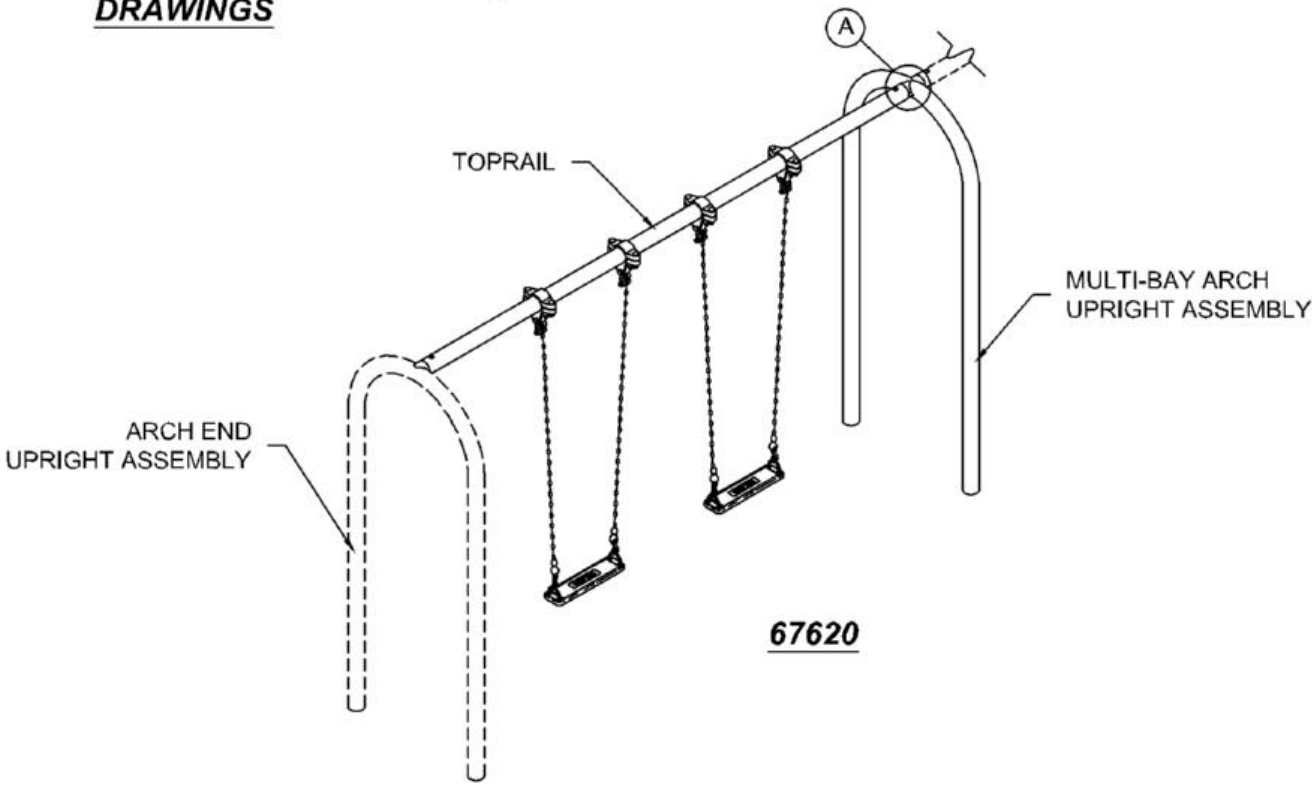
67558 3 1/2" O.D. ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ARCH SWING ADD-A-BAY

ASSEMBLY DRAWINGS



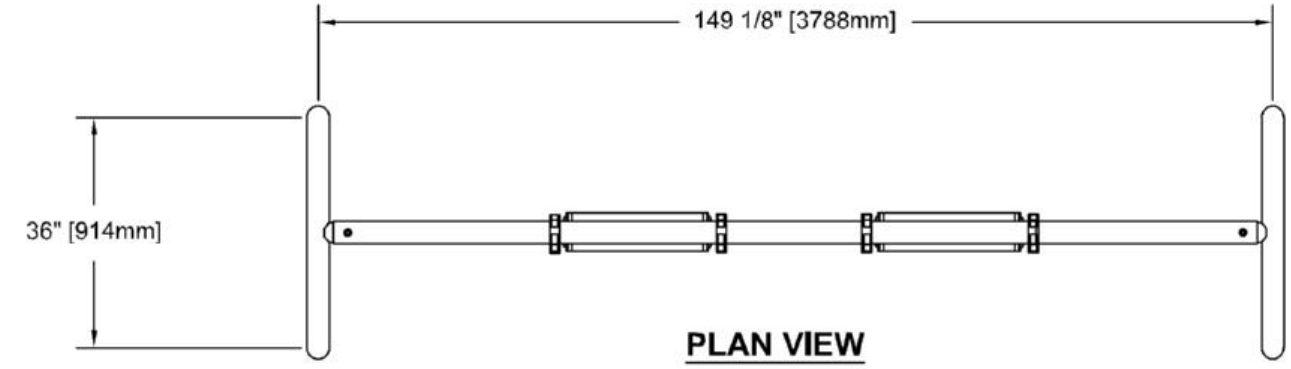
67558

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

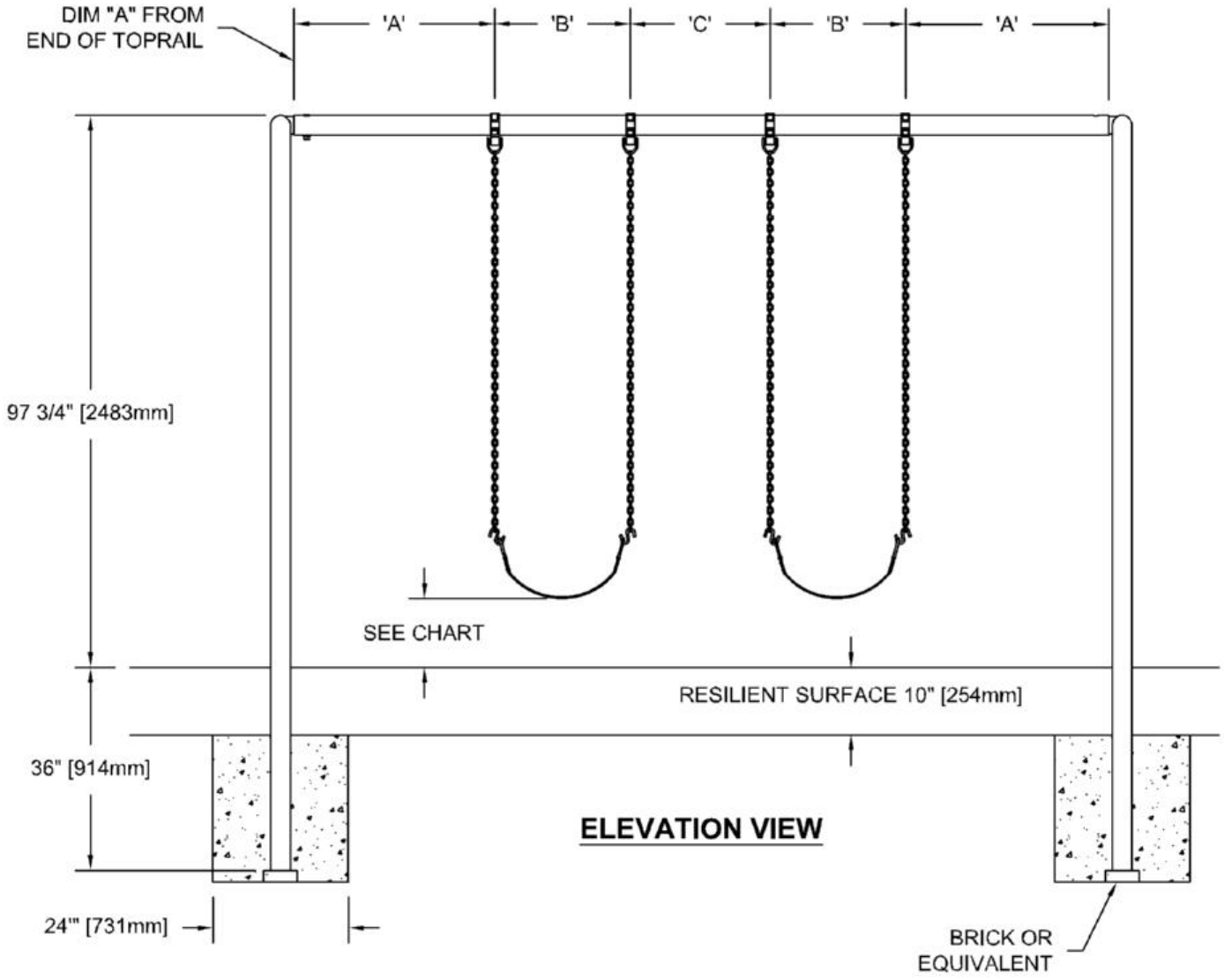


67620

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



PLAN VIEW



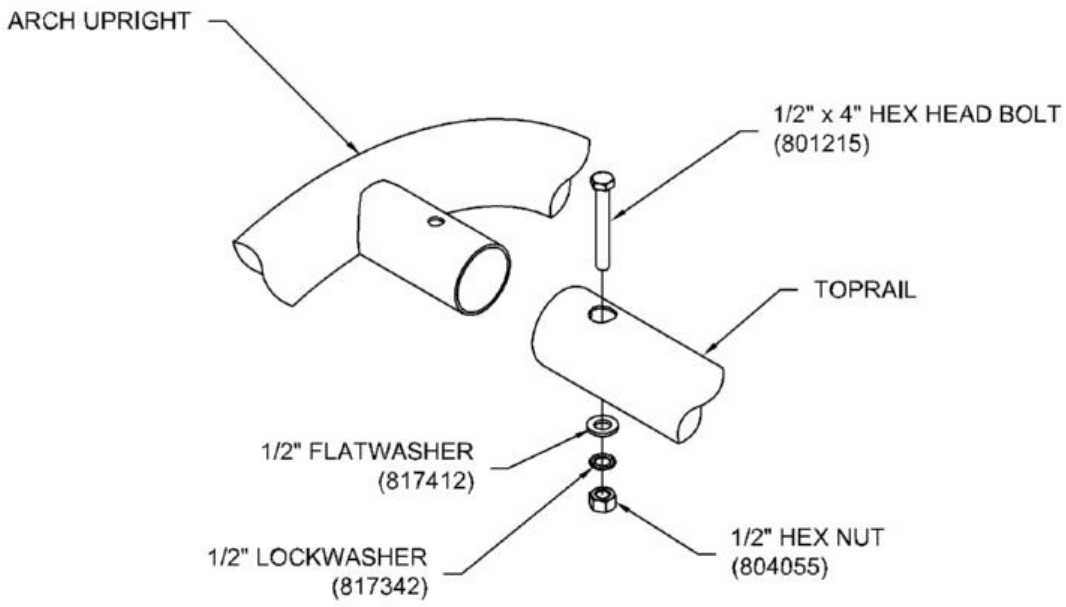
ELEVATION VIEW

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

TOPRAIL DIMENSIONS	
DIM. A	32" [813mm]
DIM. B	26" [660mm]
DIM. C	28" [711mm]

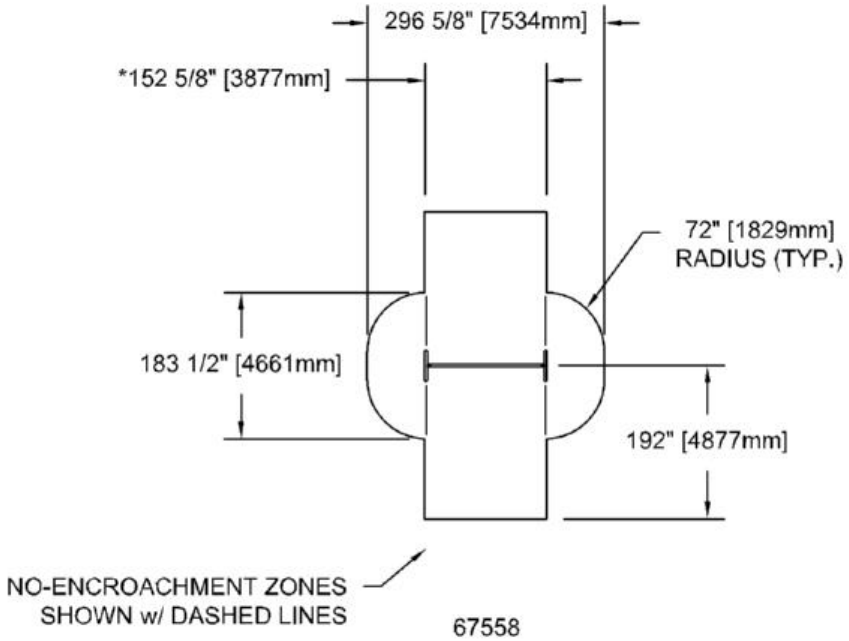
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	**MIN.**	**MAX.**
CANADIAN	STRAP - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	STRAP - 12" [305mm] ENCLOSED TOT SEAT- 24" [610mm]	N/A

MEASURED WHEN OCCUPIED BY MAXIMUM USERS

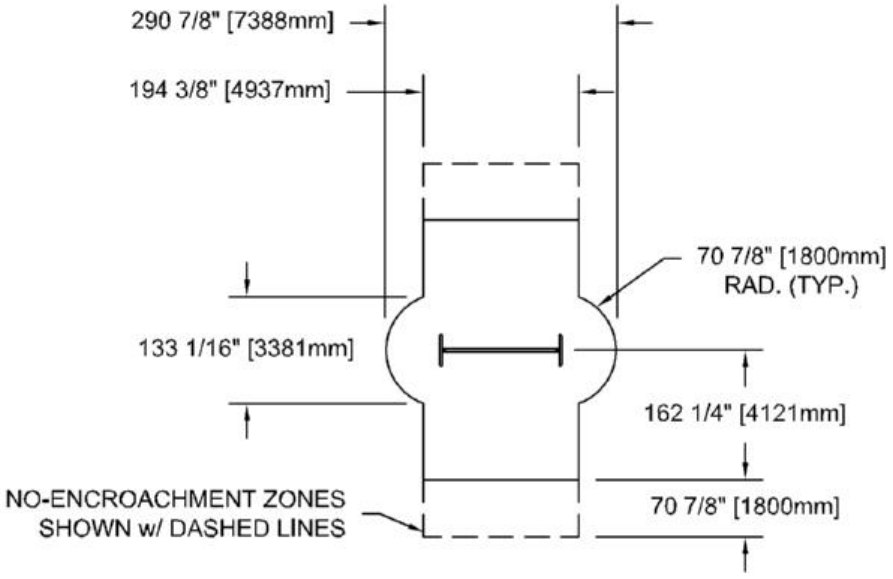


DETAIL 'A': TOPRAIL TO ARCH CONNECTION

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



67558



67558 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 149 1/8" [3788mm].

MODEL NO. 67842 Accessible Scoop Digger

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Base Assembly	1	179695*
Ground Post	1	179638
Left Arm	1	179249*
Right Arm	1	178474*
Horizontal Arm	1	179244*
Backhoe Casting	1	177720*
Hardware Complete	1	179251
Bronze Thrust Washer	2	818389**
3/8" x 3/4" P.B.H.C.S. w/Patch	3	812052**
3/8" Flatwasher (1 1/4" O.D.)	2	817424**
3/8" Lockwasher	3	817334**
3/8" Barrel Nut	1	804804**
1/2" Flatwasher	1	817412**
1/2" Lockwasher	1	817342**
1/2" x 2 1/2" Shoulder Bolt	2	802734**
1/2" x 1 1/4" Shoulder Bolt	1	802726**
Bushing	1	102820**
Anchor Rod	1	135038**
3/8" Pin-In Torx Bit	1	812655**

Unless Otherwise Specified, All Units of Measure are Each
**** Included in 308630 Package***
*****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

SPECIFICATIONS

BASE ASSEMBLY: Shall be fabricated from 2 3/8"" O.D. galvanized pipe for ground post and 1 3/8" stainless steel machined rod for arms. The assembly shall be an all-welded construction.
BACKHOE CASTING: Shall be cast from high tensile strength aluminum.
GROUND POST: Shall be fabricated of 2-3/8" O.D. galvanized pipe with a stainless steel machined top. The assembly shall be an all-welded construction.
LEFT ARM: Shall be fabricated from 1-1/16" O.D. galvanized pipe and 1" O.D. DOM tubing in an all-welded construction.
RIGHT ARM: Shall be fabricated from 1-1/16" O.D. galvanized pipe, 1" O.D. DOM tubing and 3/16" H.R. steel formed bracket in an all-welded construction.
HORIZONTAL ARM ASS'Y: Shall be fabricated from 1-1/16" galvanized pipe in an all-welded construction.
FINISH: Shall be a bright powder coat finish.
HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.
NOTE: All weights are based on average comparisons of each part.
SPECIFICATIONS: We have a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

MODEL NO. 67842 Accessible Scoop Digger

INSTALLATION INSTRUCTIONS:

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

STEP 1: Dig a 2'-6" [76.20cm] deep x 1'-6" [45.72cm] diameter hole. Place a brick or equivalent at the bottom of hole to help support the upright. Allow for this in hole depth. Dig out for sand pit approximately 0'-10" [25.40cm] deep x 3'-9" [114.30cm] radius. See Front View.

STEP 2: Insert anchor rod into ground post.Place ground post in hole so that machined end is at the top of upright. Be sure that cut out slot in ground post faces in the opposite direction from the intended area for the sand pit. Fill hole with concrete to within 1'-0" [30.48cm] of ground level and cover concrete with 0'-2" [5.08cm] of backfill. Check to make sure post is level and plumb. Allow 48 hours minimum for concrete to cure and harden.

STEP 3: Slide Base Assembly over ground post. See Detail A.

STEP 4: Attach right and Left Arms to Base Assembly using hardware shown in detail. See Detail B.

STEP 5: Attach Horizontal Arm to the bracket welded on the Right Arm. See Detail C.

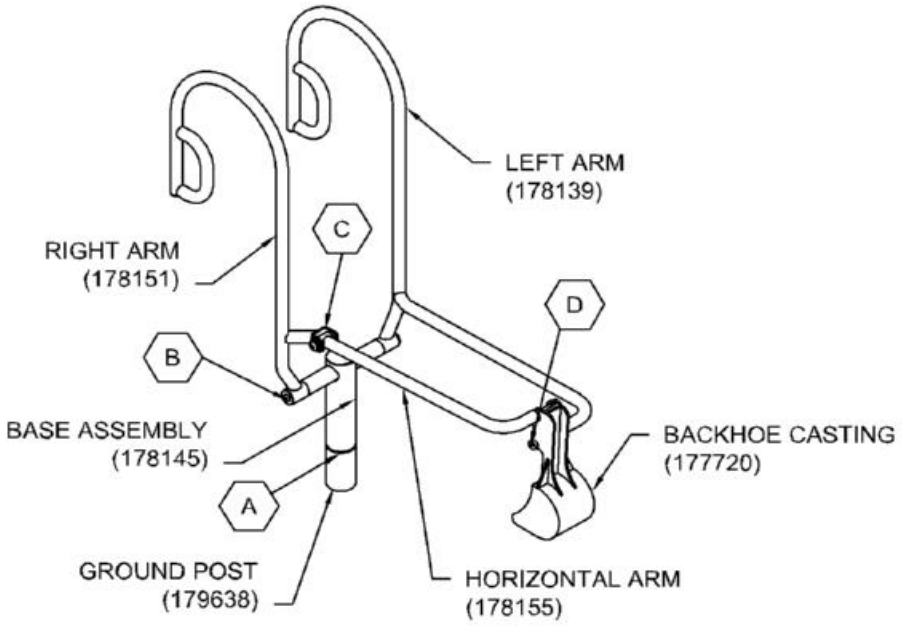
STEP 6: Attach Shovel Casting to the end of the Horizontal Arm and the Left Arm as shown in Detail D.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

MAINTENANCE PROCEDURE:

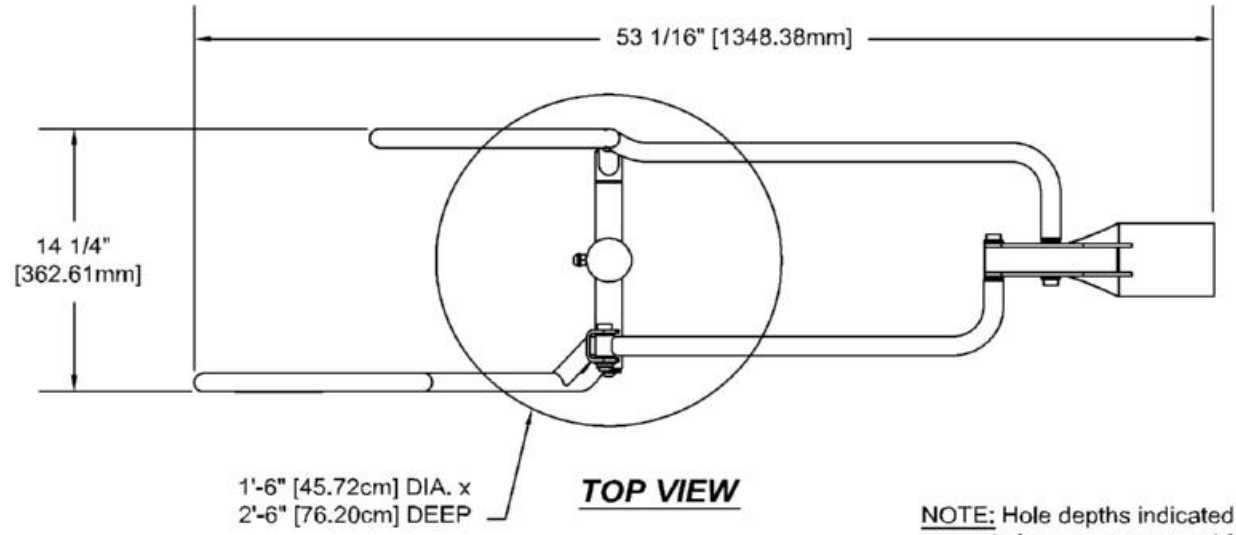
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check for cracks, gouges or breakage on plastic, check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create entrapment as specified on ASTM F-1487 section 6. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



⬡ = INSTALLATION DETAIL

ASSEMBLY DRAWING

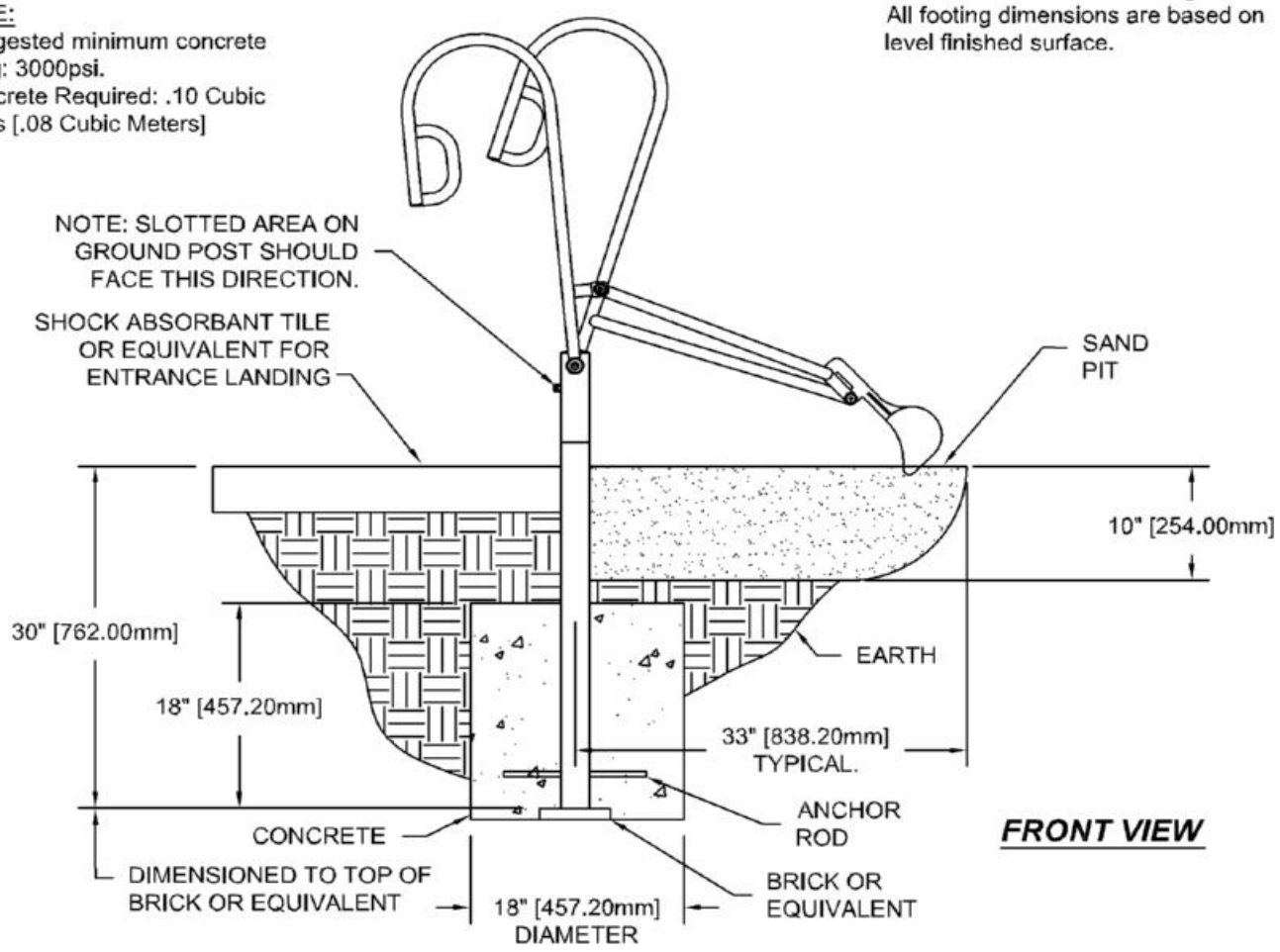
MODEL NO. 67842 Accessible Scoop Digger



TOP VIEW

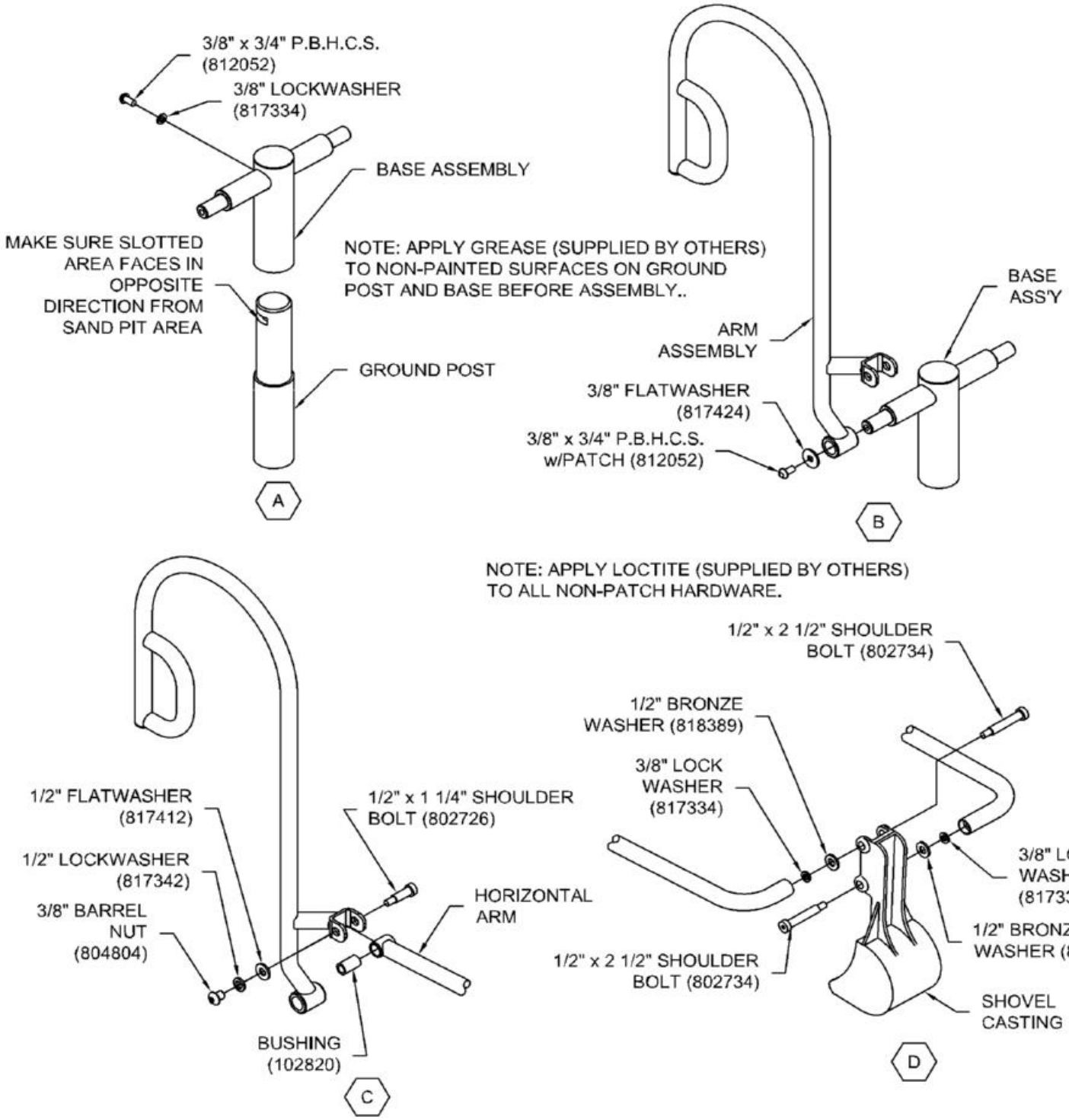
NOTE: Hole depths indicated on all ground plans are measured from the finished surface. See Footing Detail. All footing dimensions are based on level finished surface.

NOTE:
-Suggested minimum concrete rating: 3000psi.
-Concrete Required: .10 Cubic Yards [.08 Cubic Meters]



FRONT VIEW

MODEL NO. 67842 Accessible Scoop Digger



ParkPlay Free Standing

Model No: _____

Desc: _____

MODEL NO. 67860 Made-for-Me Swing Seat
MODEL NO. S67860 Made-for-Me Swing Seat w/S.S. Chain

PARTS LIST

DESCRIPTION	Number Required 67860	Number Required S67860	PART NUMBER
Made-for-Me Swing Seat Assembly (2 - 5)	1	1	178862
Seat Brace (Yellow)	1	1	214730**
Seat Latch (Yellow)	1	1	178513**
Hardware Complete	1	0	178870
Hardware Complete	0	1	178871
Galvanized Chain, 100 5/8" Lg.	2	0	178866*
Stainless Steel Chain, 100 5/8" Lg.	0	2	178867*
3/8" x 1 1/4" P.B.H.C.S. w/ Patch	2	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/ Patch	2	2	812054*
3/8" Lockwasher	4	4	817334*
3/8" Flatwasher	2	2	817410*
3/8" Flatwasher (1-1/4" O.D.)	2	2	817424*
3/8" Barrel Nut	2	2	804804*
Swing Hanger	2	2	1462*
Spacer	2	2	179390*

Unless Otherwise Specified, All Units of Measure are Each
***Included in Hardware** ***Included in Seat Assembly**

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

SPECIFICATIONS:

All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

INSTALLATION INSTRUCTIONS:

1. Remove 3/8" x 3/4" Hex Head Bolts from seat and discard.

2. Attach appropriate chain to top of seat using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher and 3/8" Flatwasher (1 ¼" O.D.), and spacer. See Detail 297.

3. Connect chain to bottom of seat using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, 3/8" Flatwasher and 3/8" Barrel Nut. See Detail 296.

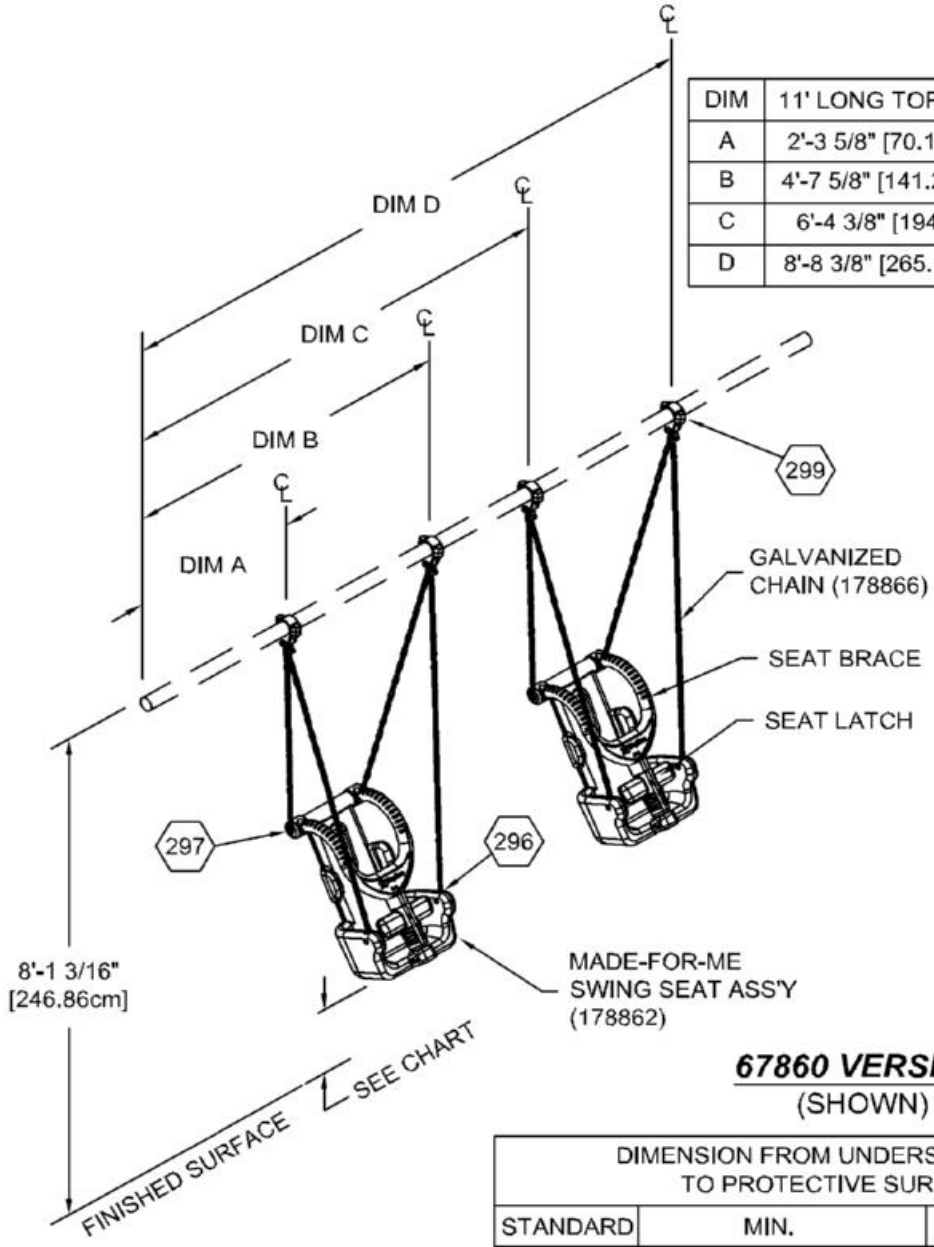
4. Connect assembled Swing Seat to swing hanger using 3/8" x 1" Shoulder Bolt. Refer to Detail 299.

5. Attach Swing Seat Assembly to top rail using 3/8" x 2" Carriage Bolt and 3/8" Lock Nut. See Detail 299 . Refer to Finished Assembly drawing for swing seat spacing.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check 'S' Hooks at both ends and all connection points for wear. Check all moving part such as hangers for wear. Check 'S' Hooks as specified by ASTM F 1487 SECTION 6.3 for Entanglement. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 67860 Made-for-Me Swing Seat
MODEL NO. S67860 Made-for-Me Swing Seat w/S.S. Chain



DIM	11' LONG TOP RAIL	12' LONG TOP RAIL
A	2'-3 5/8" [70.17cm]	2'-9 5/8" [85.41cm]
B	4'-7 5/8" [141.29cm]	5'-1 5/8" [156.53cm]
C	6'-4 3/8" [194cm]	6'-10 3/8" [209.24cm]
D	8'-8 3/8" [265.12cm]	9'-2 3/8" [28.36cm]

67860 VERSION
(SHOWN)

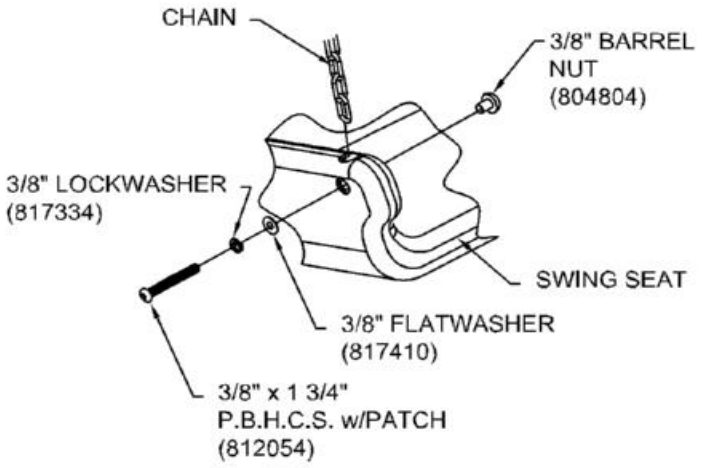
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	12" [305mm]	N/A

* UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

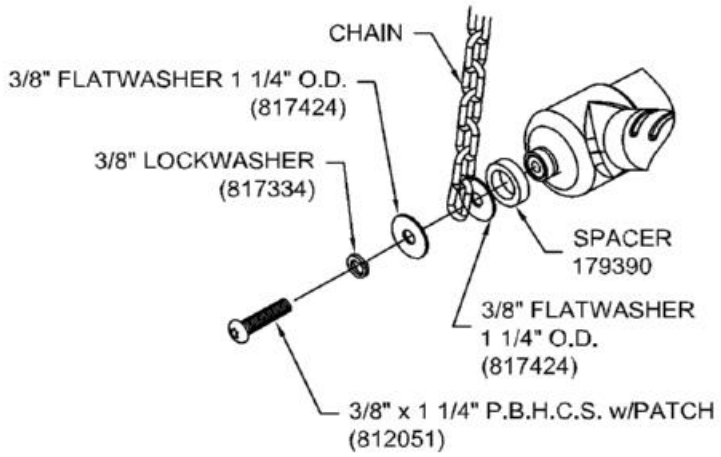
= INSTALLATION DETAIL

FINISHED ASSEMBLY

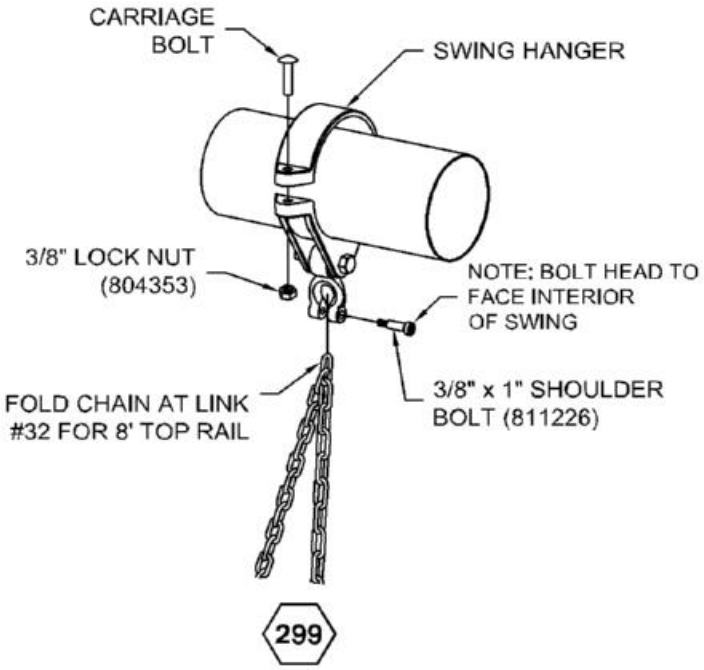
MODEL NO. 67860 Made-for-Me Swing Seat
MODEL NO. S67860 Made-for-Me Swing Seat w/S.S. Chain



296



297



299

68115 ACTIVITY METER

Parts List		
DESCRIPTION	QTY	PART NUMBER
FREESTANDING METER PANEL	1	313741
SUPPORT PIPE	1	313832
HARDWARE COMPLETE	1	313833
3/8" x 3" P.B.H.C.S. w/PATCH	1	812059*
3/8" FLAT WASHER (1 1/4" O.D.)	1	817424*
3/8" BARREL NUT	1	804804*
1/2" FLAT WASHER (1 3/8" O.D.)	1	817425*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Freestanding Meter Panel:
Shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Denisty (ASTM D-155); Brittleness Temperature (ASTM D-745; Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The frame shall be reinforced with all welded construction fabricated from 1.688" O.D. x .083" (14 gauge) wall galvanized steel tubing, 2.375" x .095" (13 gauge) wall galvanized steel tubing, and 1/4" stainless steel plate.

Support Pipe:
Shall be fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing. The Support Pipe shall be coated with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing hole according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

68115 ACTIVITY METER

2. Attach Support Pipe to Freestanding Meter Panel using 3/8" x 3" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), 1/2" Flat Washer (1 3/8" O.D.), and 3/8" Barrel Nut. See Detail 839.

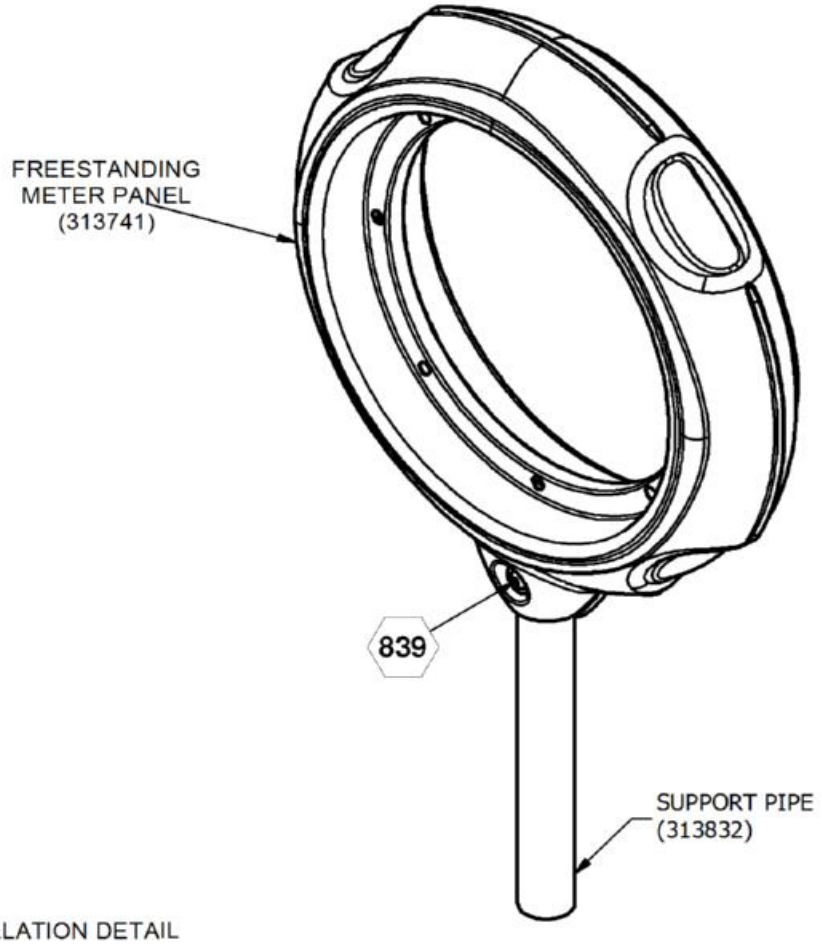
3. Plumb and level the entire assembly and tighten all fasteners.

4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

5. When the structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

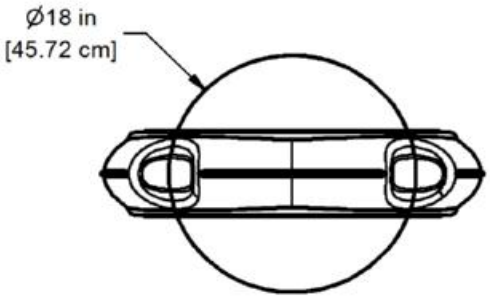
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



⬡ = INSTALLATION DETAIL

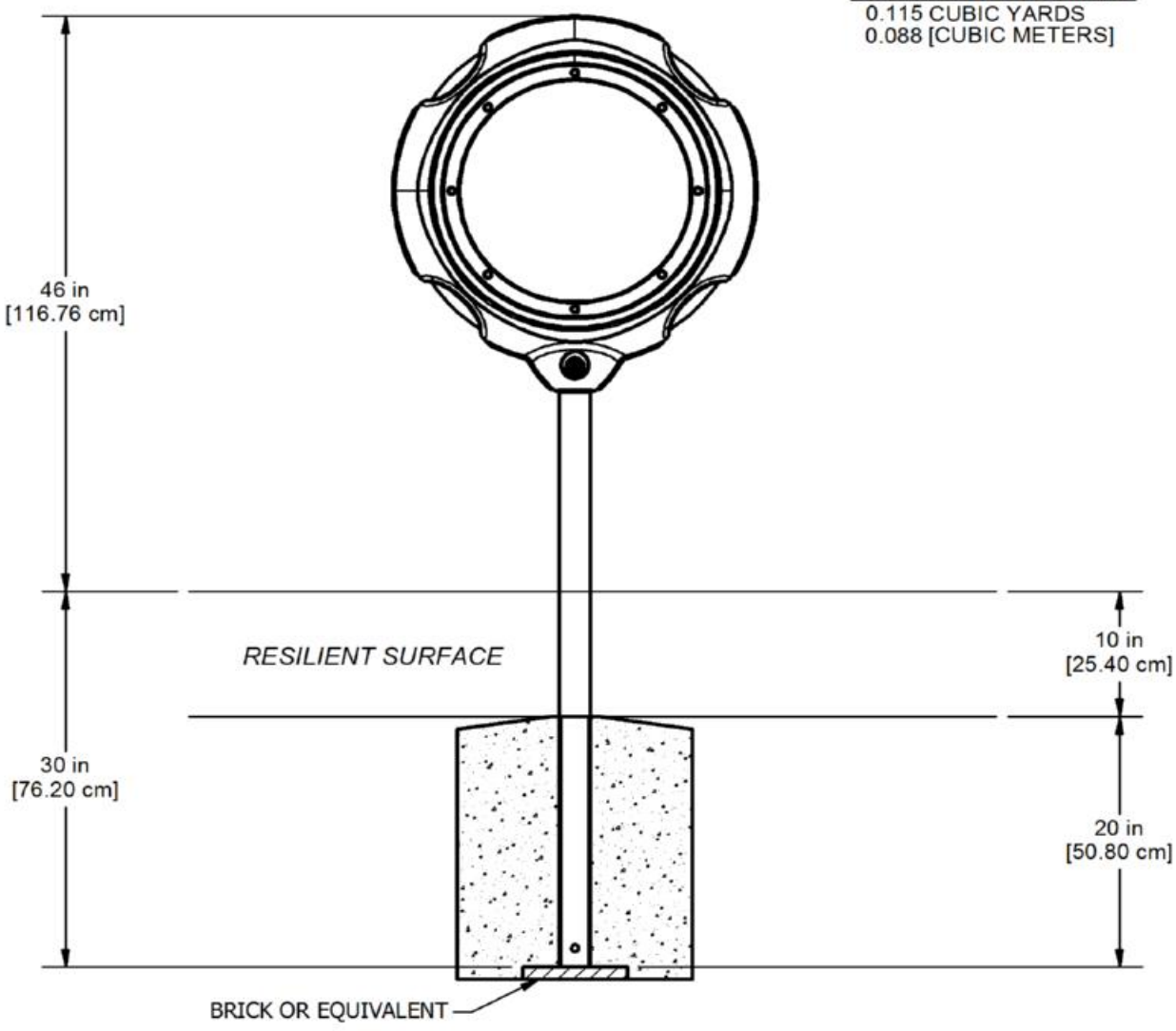
FINISHED ASSEMBLY

68115 ACTIVITY METER



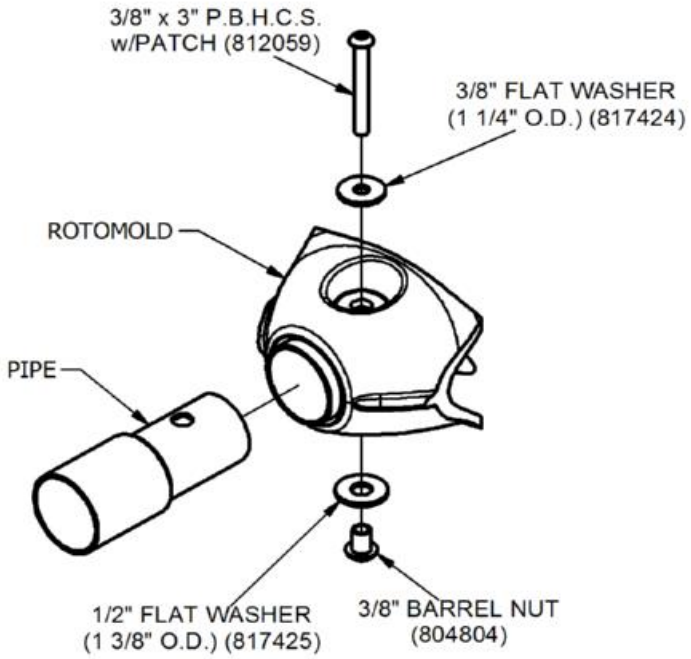
PLAN VIEW

CONCRETE REQUIRED
0.115 CUBIC YARDS
0.088 [CUBIC METERS]



ELEVATION VIEW

68115 ACTIVITY METER



839

68128 SONATA

Parts List		
DESCRIPTION	QTY	PART NUMBER
SONATA INSTRUMENT PACKAGE	1	313936
SONATA FRONT HDPE PANEL	1	313937
SONATA BACK PANEL	1	313938
SONATA SPACER	4	313940
SMALL BRACKET PLATE	1	313943
LONG BRACKET PLATE	1	313946
SONATA SUPPORT ASSEMBLY	1	313948
3 1/2" DOME CAP	2	212995
HARDWARE COMPLETE	1	313971
#10 x 1 1/4" SHEET METAL SCREW	15	810069
#10 x 1 1/2" SHEET METAL SCREW	24	810064
3/8" x 3/4" P.B.H.C.S. w/PATCH	12	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	8	812053
3/8" FLAT WASHER	20	817410
3/8" BARREL NUT	12	804804
3/16" x 13/32" DRIVE RIVET	4	805366
#10 x 1" SCREW	4	815506

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Sonata Instrument Package:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallets shall be an all plastic construction with stainless steel hardware.

Sonata Front HDPE Panel and Sonata Back Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ft^3 and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Sonata Spacer:
Shall be fabricated from 1.315" O.D. x .083" (14 gauge) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded pipe insert. The Sonata Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein

Small Bracket Plate:
Shall be fabricated from 11 ga. 18" x 1/8" thick stainless steel. The Small Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Long Bracket Plate:
Shall be fabricated from 11 ga. 40"" x 1/8" thick stainless steel. The Long Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

68128 SONATA

Sonata Support Assembly:
Shall be an all welded construction fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing, 3 1/2" O.D. x .095" (13 gauge) galvanized steel tubing, 1/4" thick laser cut plate, and 13 ga. 2.375" o.d. galv. tubing. The Sonata Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Sonata Instrument Insert to Sonata Back Panel using #10 x 1 1/4" Wood Screw. See Detail 851.

3. Attach Sonata Back Panel to Sonata Support Assemby using #10 x 1 1/2" Sheet Metal Screw. See Detail 852. Attach Caps to Support Assembly using 3/16" x 13/32" Drive Rivets as shown in Detail 597.

4. Attach Small Bracket Plate and Long Bracket Plate to Sonata Back Panel and Sonata Front HDPE Panel using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 853. **NOTE:** *Refer to Detail Views A and B for bracket orientation.*

5. Attach Sonata Spacer to Sonata Back Panel and Sonata Front HDPE Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 854.

6. Attach Mallets to the bottom edge of Sonata Front Panel using #10 x 1"Screw (Included in Hardware Complete Package). See Detail 856. **NOTE:** *Drill 1/8" pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes.* **NOTE:** *Make sure to install mallets no higher than 26 1/2" from top of connection point. Refer to Finished Assembly View and Elevation View.*

7. Plumb and level the entire assembly and tighten all fasteners.

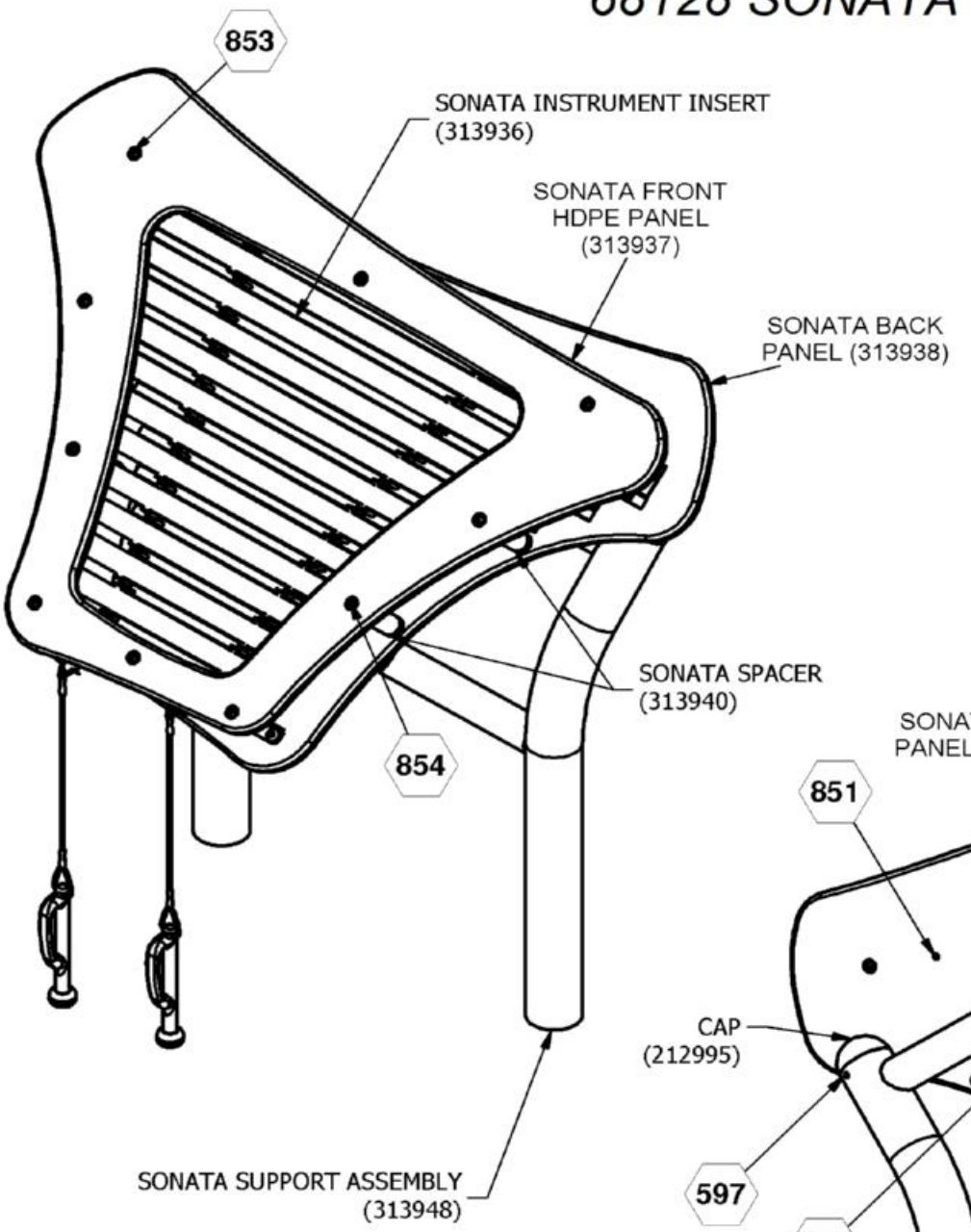
8. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures

9. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

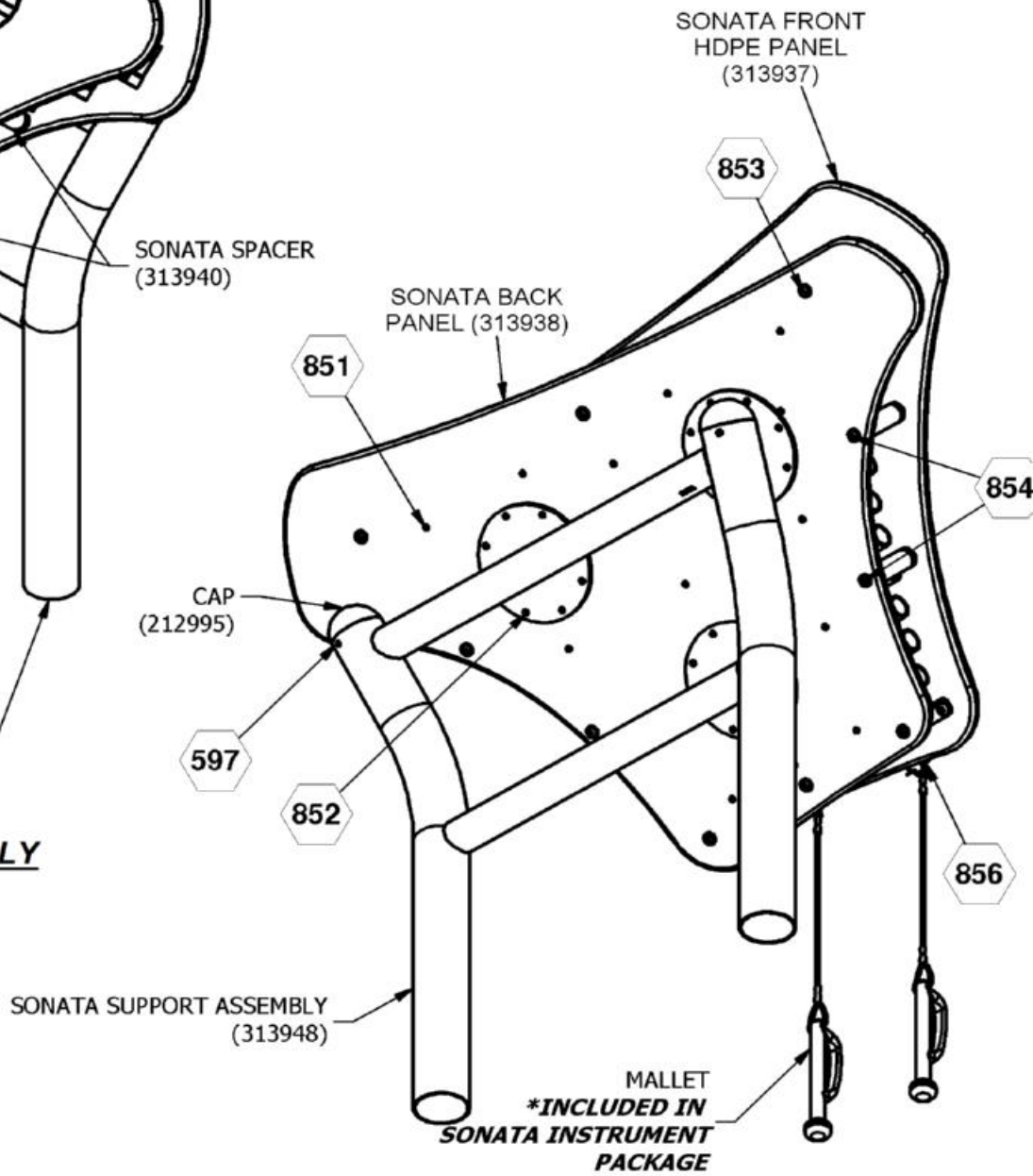
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68128 SONATA



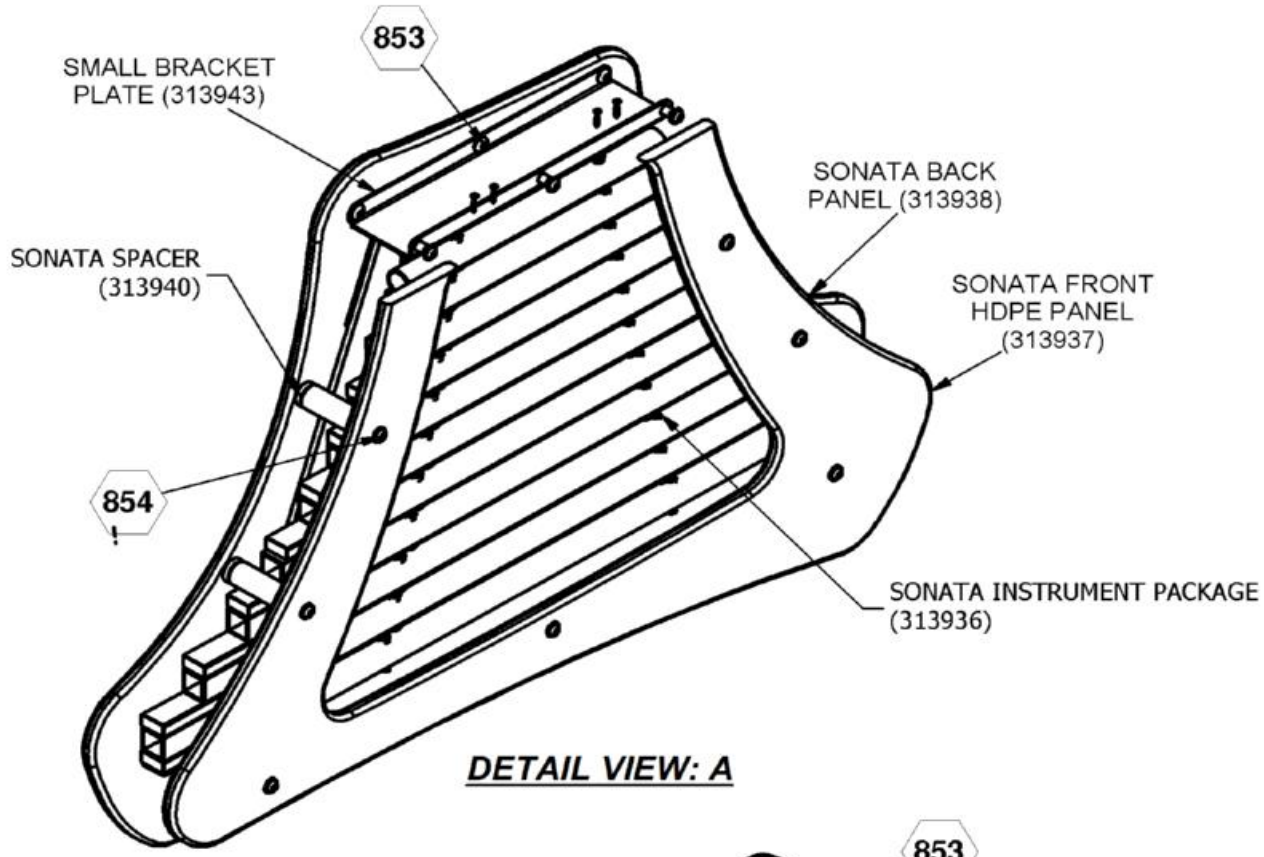
FINISHED ASSEMBLY



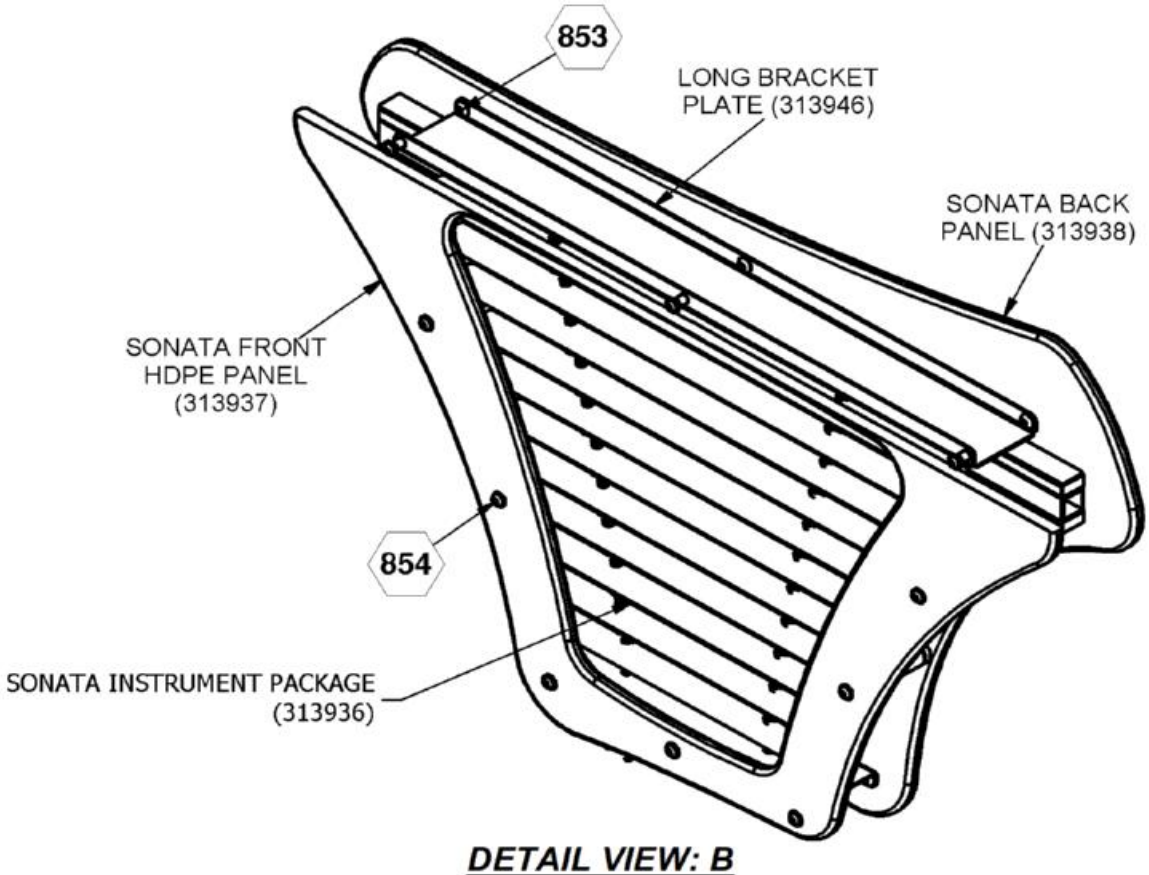
UNDERNEATH VIEW

⬡ = INSTALLATION DETAIL

68128 SONATA

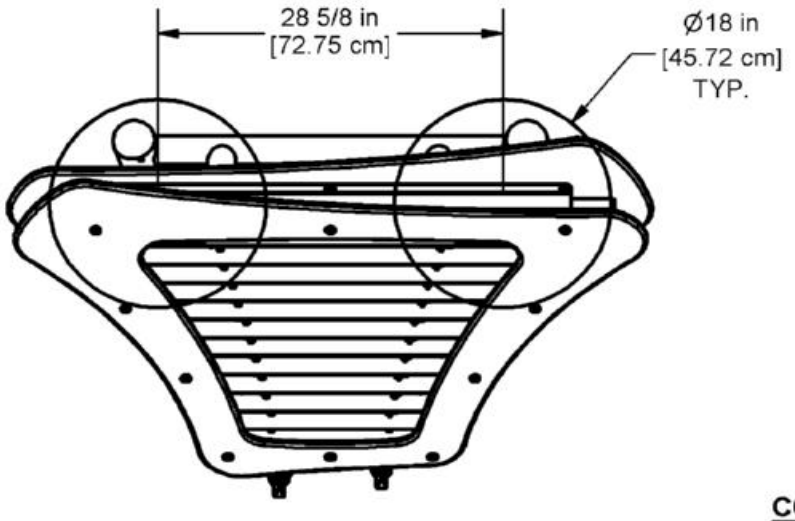


DETAIL VIEW: A



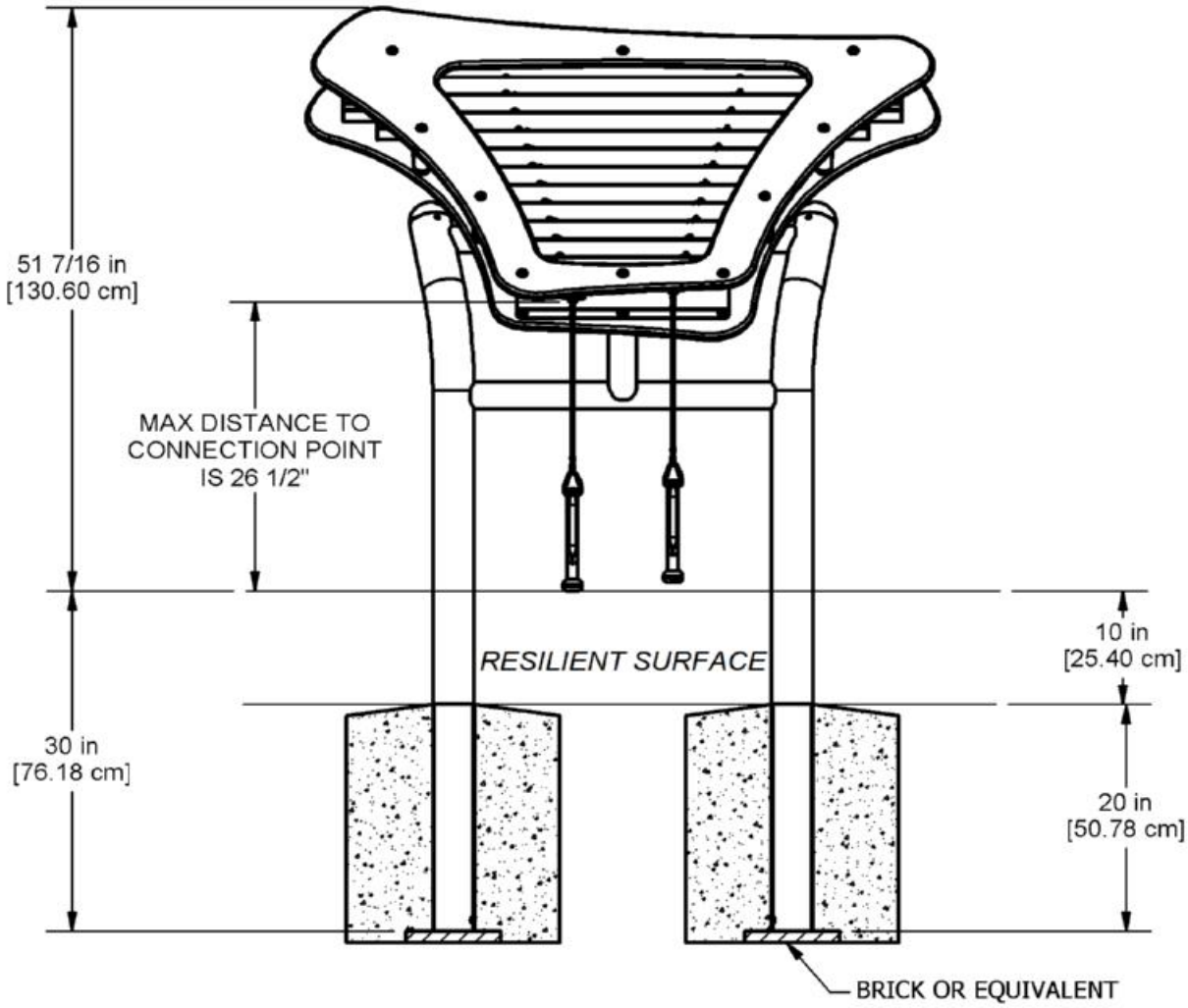
DETAIL VIEW: B

68128 SONATA



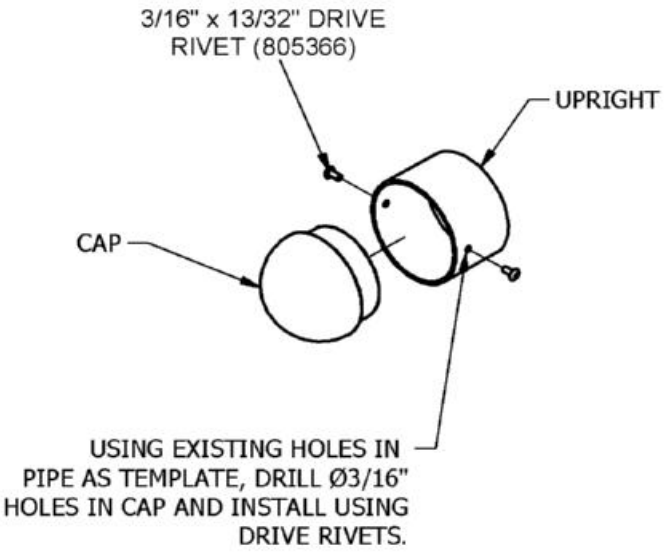
PLAN VIEW

CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

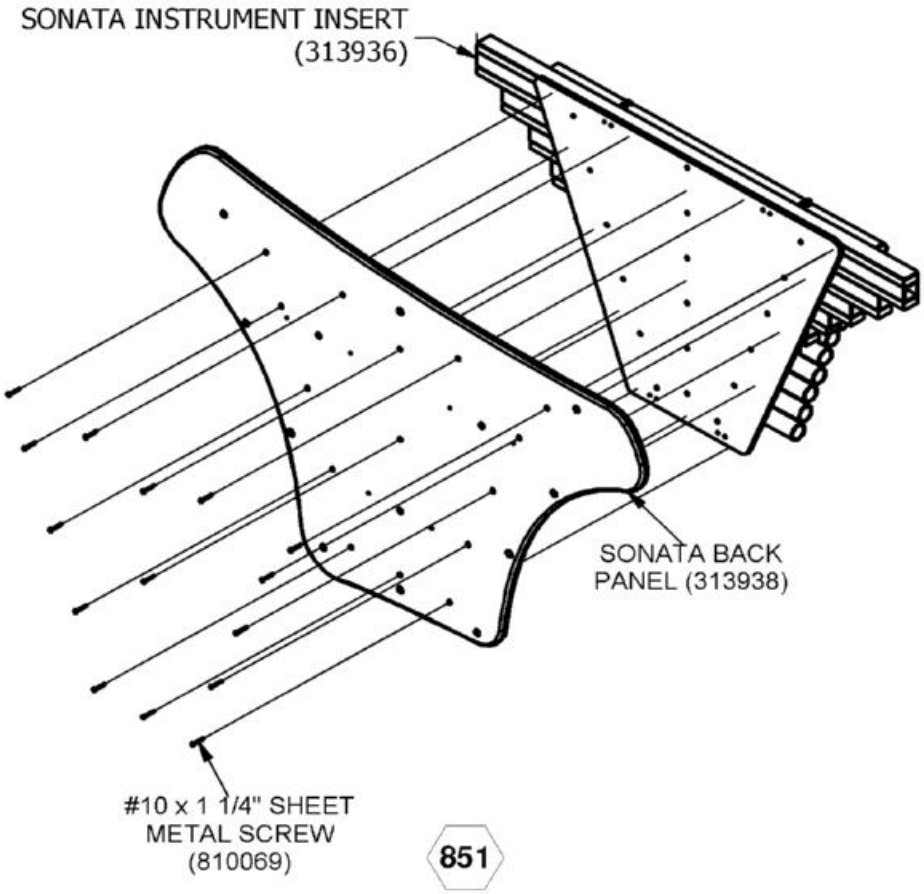


ELEVATION VIEW

68128 SONATA

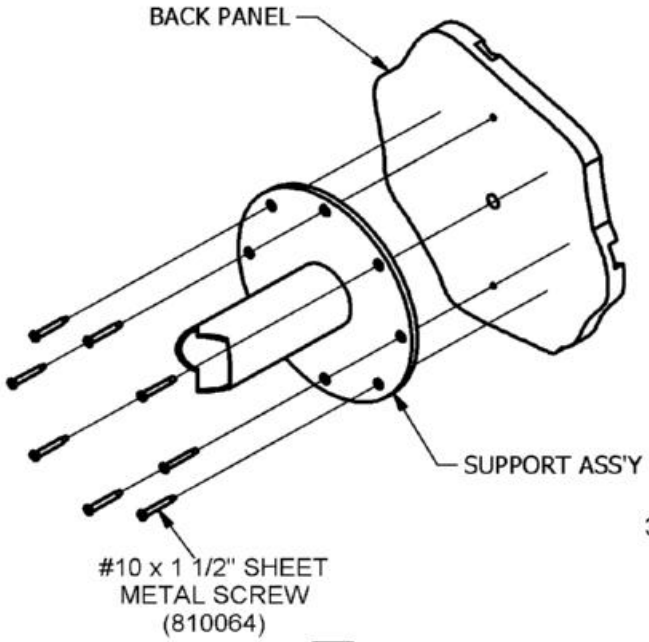


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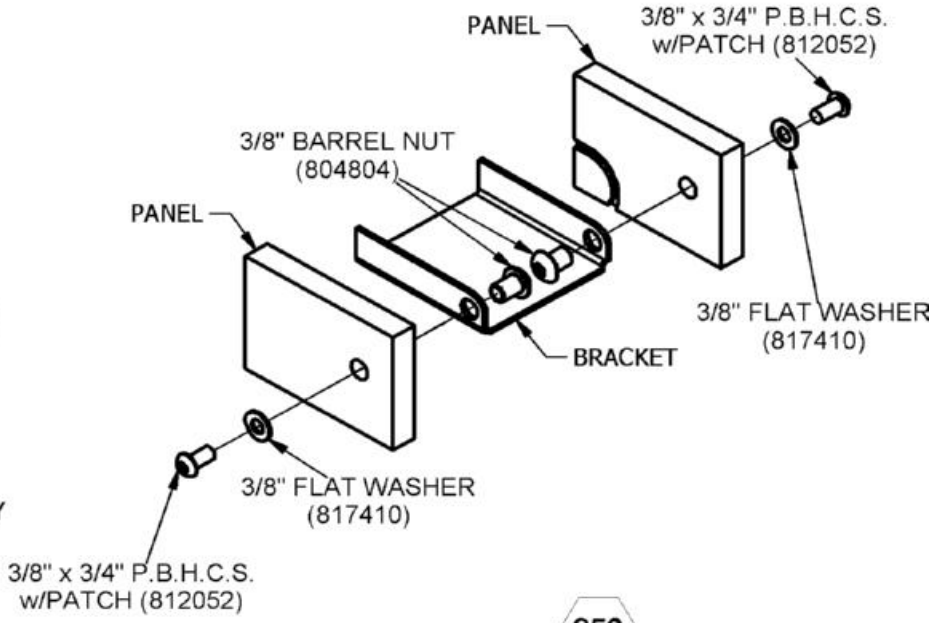


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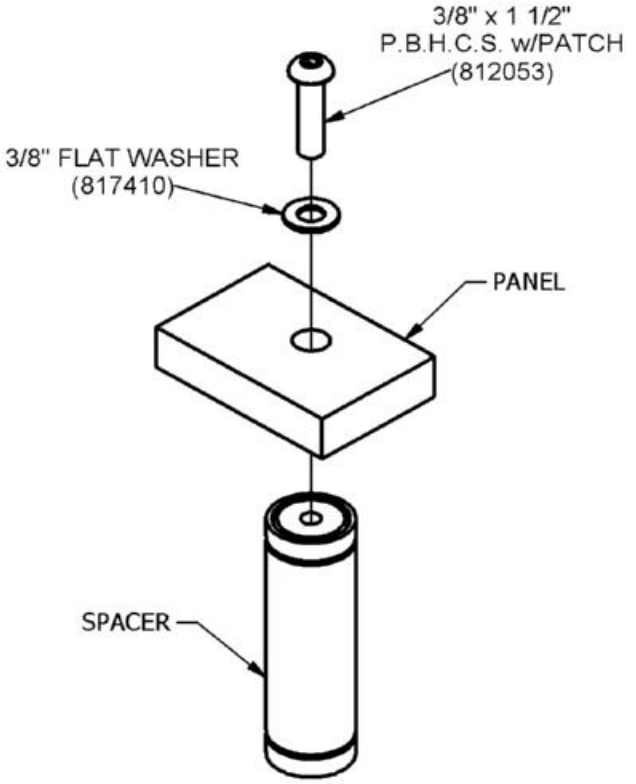
68128 SONATA



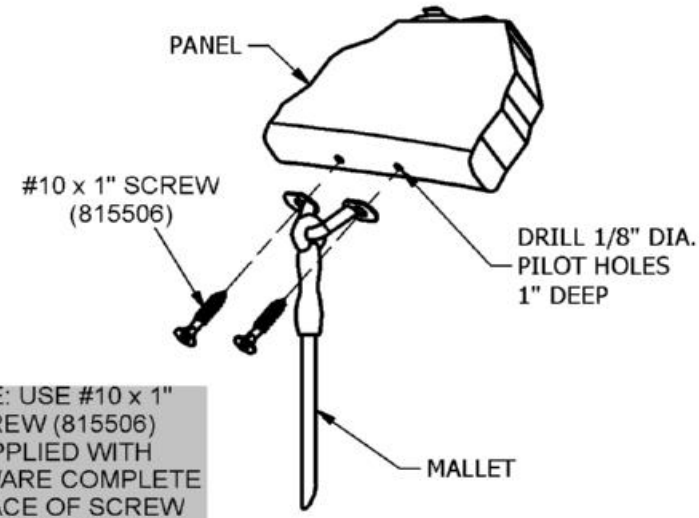
852



853



854



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET.
PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.

856

68129 PRESTO

Parts List		
DESCRIPTION	QTY	PART NUMBER
PRESTO INSTRUMENT PACKAGE	1	313912
PRESTO FRONT HDPE PANEL	1	313914
PRESTO BACK HDPE PANEL	1	313915
PRESTO SPACER	10	313917
PRESTO SUPPORT ASSEMBLY	1	313919
3 1/2" DOME CAP	2	212995
HARDWARE COMPLETE	1	313972
#10 x 1 1/4" SHEET METAL SCREW	15	810069
#10 x 1 1/2" SHEET METAL SCREW	16	810064
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	20	812053
3/8" FLAT WASHER	20	817410
3/16" x 13/32" DRIVE RIVET	4	805366
#10 x 1" SCREW	4	815506

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Presto Instrument Package:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallet shall be an all plastic construction with stainless steel hardware.

Presto Front HDPE Panel and Presto Back HDPE Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a denisty of 60lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Presto Spacer:
Shall be fabricated from 1.315" O.D. x .083 (14 gauage) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded insert. The Presto Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Presto Support Assembly:
Shall be an all welded construction fabricated from 2.375" O.D. x .095" (13 gauge) wall galvanized steel tubing, 3.5" O.D. x .095" (13 gauge) wall galvanized steel tubing, and 1/4" thick laser cut plate. The Presto Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula fo TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

68129 PRESTO

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plate steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Presto Back HDPE Panel to Presto Support Assemby using #10 x 1 1/2" Sheet Metal Screw. See Detail 852. Attach Caps to Suppo Assembly using 3/16" x 13/32" Drive Rivets as shown in Detail 597.

3. Attach Presto Instrument Insert to Presto Back HDPE Panel using #10 x 1 1/4" Sheet Metal Screw. See Detail 855.
   IMPORTANT: Orientation of instrument insert is critical. Open end of chimes must be facing down to allow drainage.

4. Attach Presto Spacer to Presto Back HDPE Panel and Presto Front HDPE Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 854.

5. Attach Mallets to the bottom edge of Presto Back HDPE Panel using #10 x 1" Screw (Included in Hardware Complete). See Detail 856. **NOTE:** *Drill 1/8" pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes.*
   NOTE: *Make sure to install mallets no higher than 26 1/2" from the top of connection point. Refer to Finished Assembly View and Elevation View.*

6. Plumb and level the entire assembly and tighten all fasteners.

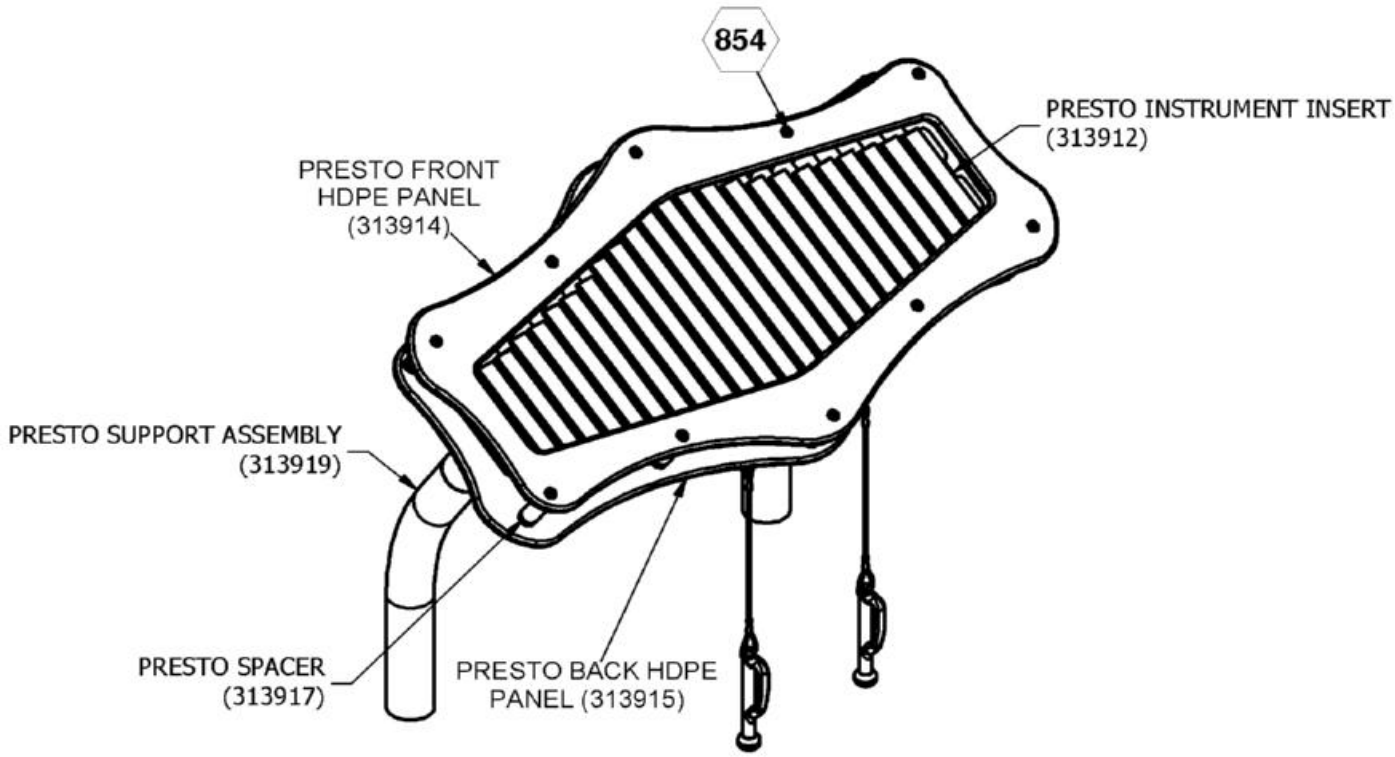
7. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

8. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

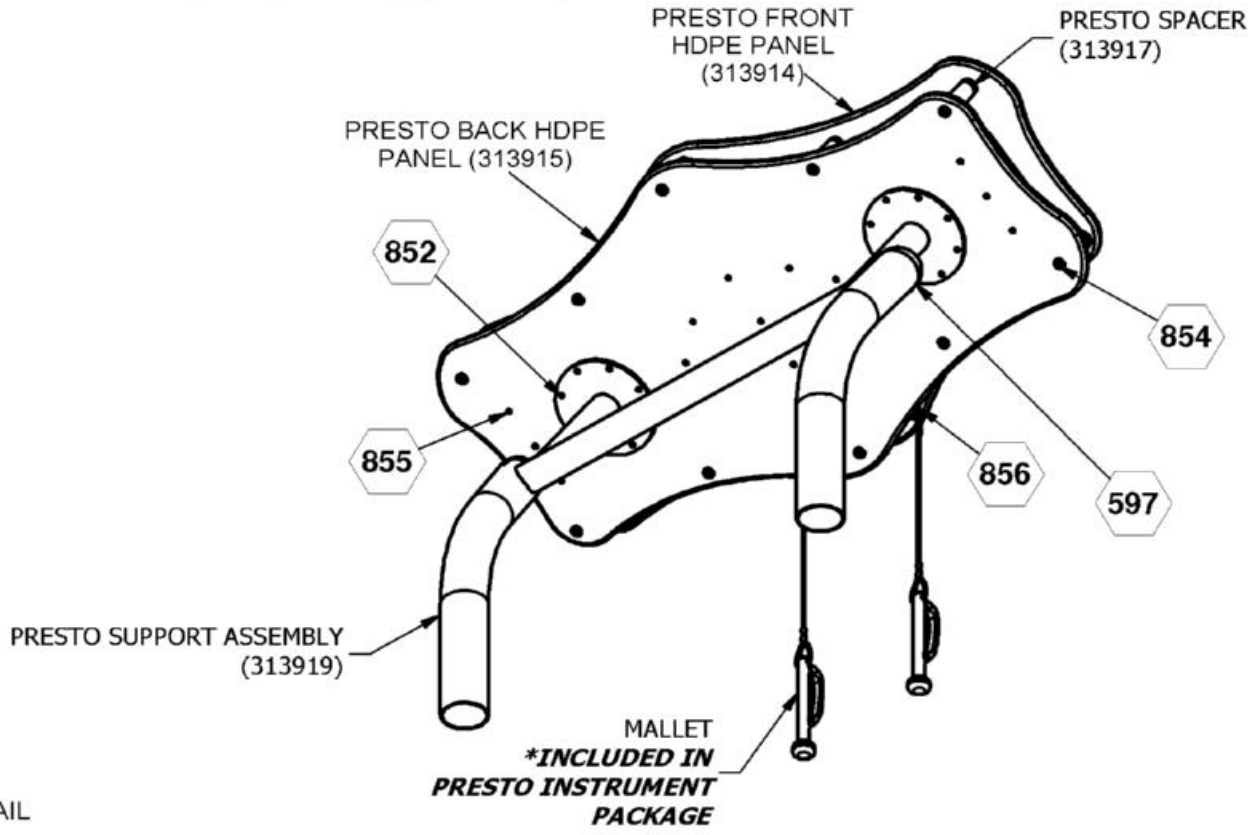
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68129 PRESTO



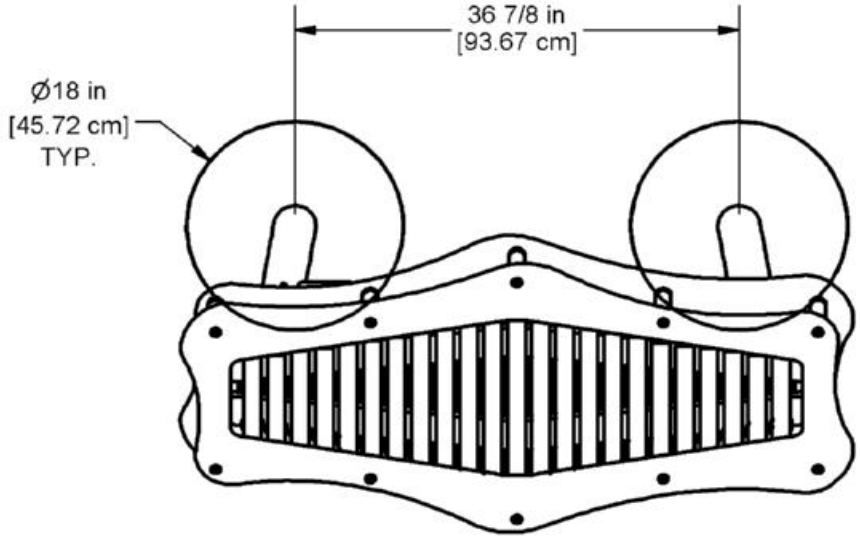
FINISHED ASSEMBLY



= INSTALLATION DETAIL

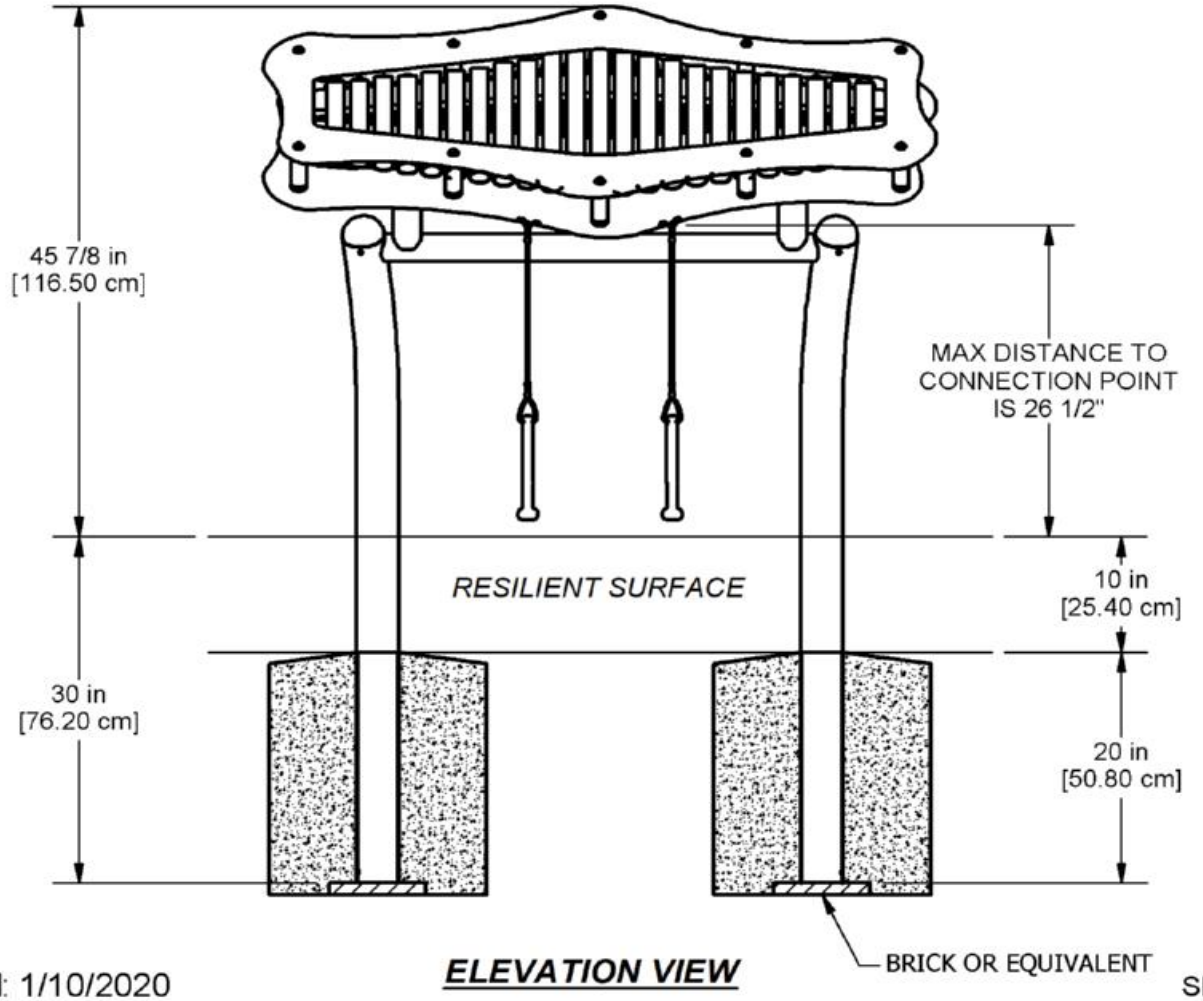
UNDERNEATH VIEW

68129 PRESTO



CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

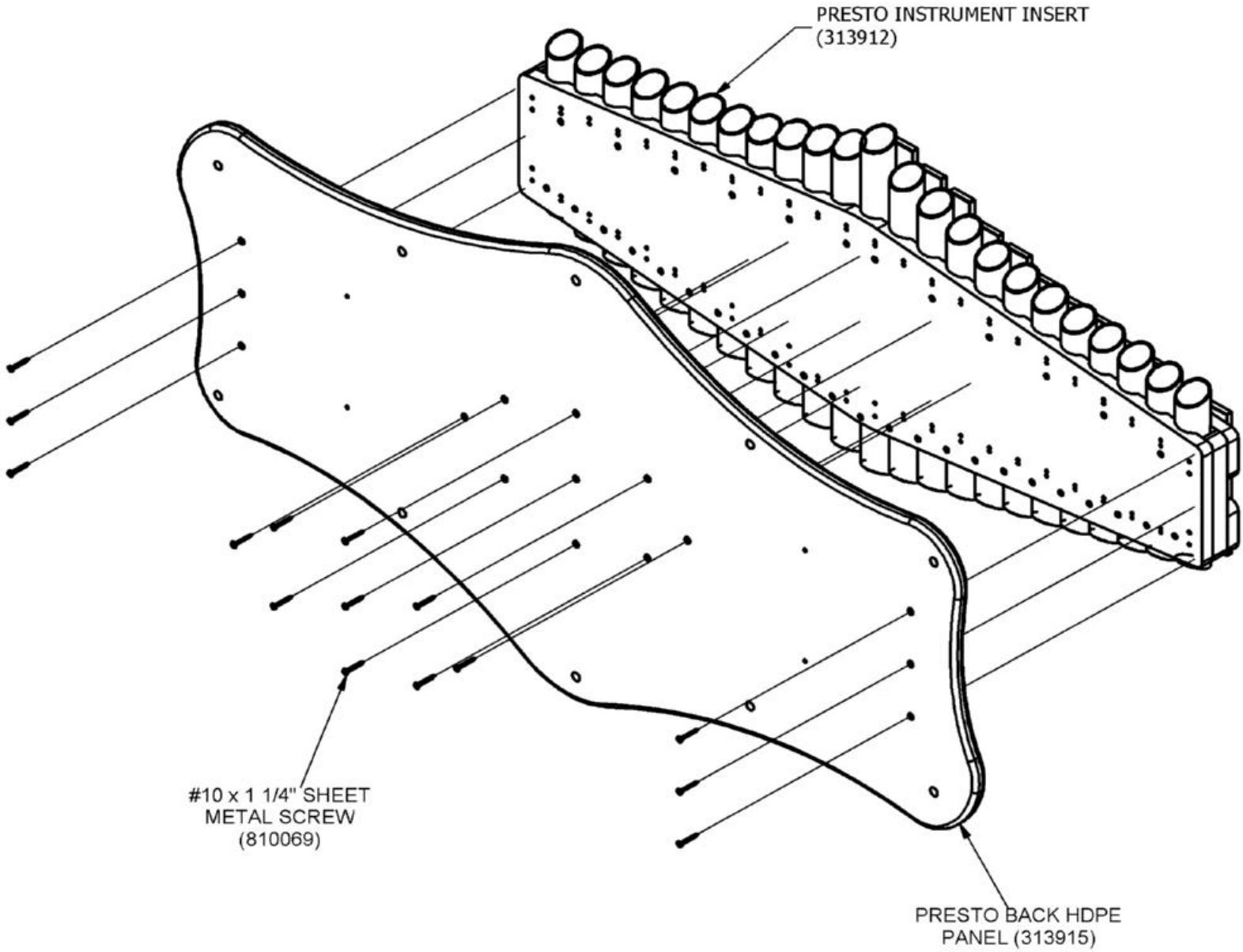
PLAN VIEW



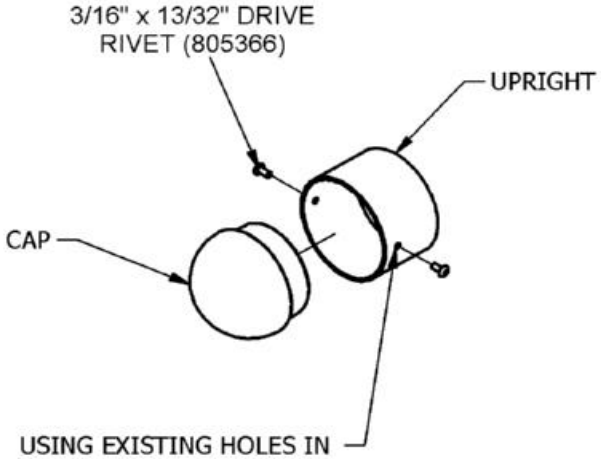
ELEVATION VIEW

68129 PRESTO

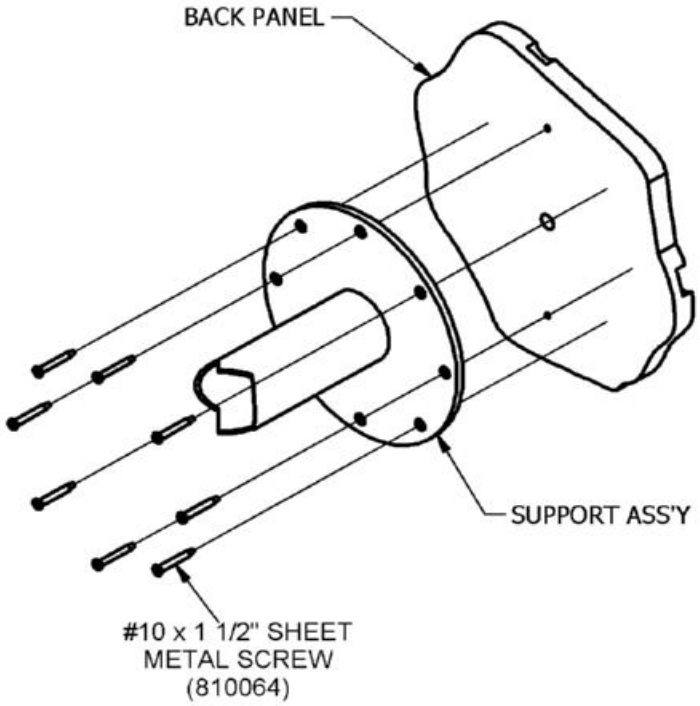
IMPORTANT: ORIENTATION OF INSTRUMENT INSERT IS CRITICAL.
OPEN END OF CHIMES MUST BE FACING DOWN TO ALLOW DRAINAGE.



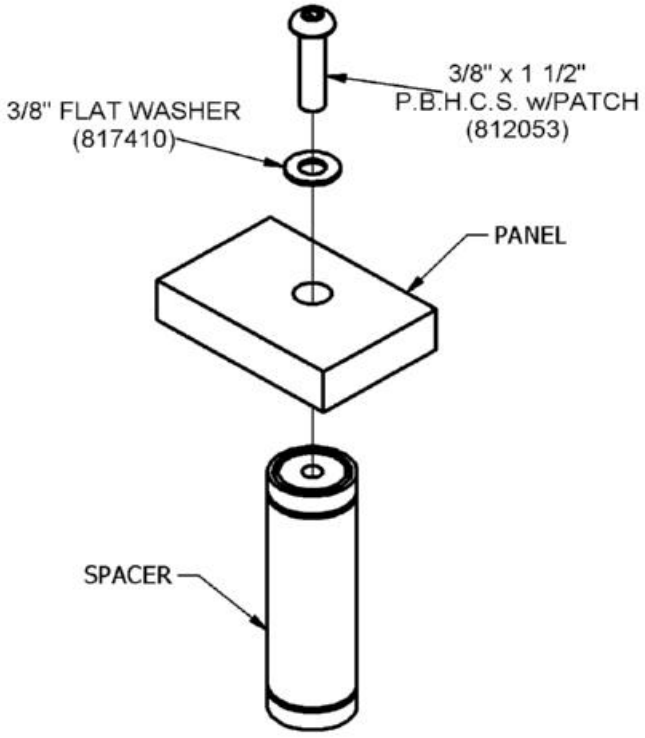
68129 PRESTO



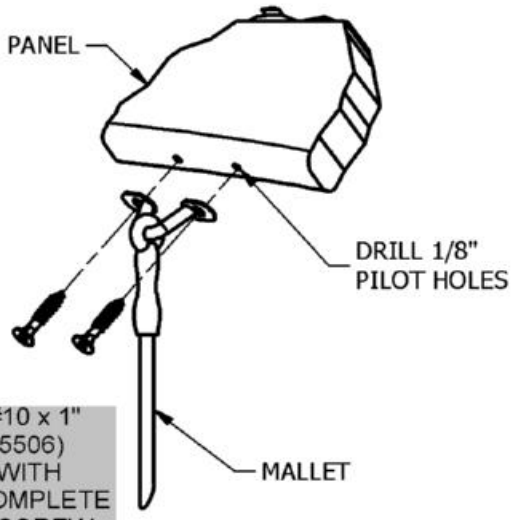
597



852



854



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET.
PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.

856

68140 CONGA (SET OF 3)

Parts List		
DESCRIPTION	QTY	PART NUMBER
CONGA TRIPLE FRONT HDPE PANEL	1	314066
CONGA TRIPLE BACK HDPE PANEL	1	314067
CONGA TRIPLE UPRIGHT SUPPORT	1	314065
CONGA TRIPLE RING ASSEMBLY	1	314062
SPACER WITH INSERTS	9	314057
DRUMS PKG. (SET OF THREE)	1	314097
HARDWARE COMPLETE	1	314070
3/8" x 3/4" P.B.H.C.S. w/PATCH	36	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	18	812053
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	18	812057
3/8" x 3 1/4" P.B.H.C.S. w/PATCH	4	812060
3/8" HEX NUT	18	804053
3/8" LOCKWASHER	22	817334
3/8" PLASTIC SPACER	36	817613
3/8" FLAT WASHER	72	817410
3/8" BARREL NUT	40	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Conga Triple Front HDPE Panel and Conga Triple Back HDPE Panel:
Shall be 3/4" thick high-desnity polyethylene.

Conga Drum 6, Conga Drum 8, and Conga Drum 10:
Shall be constructed of 6" plastic pipe, 8", and 10" plastic pipe, and molded plastic lid.

Conga Triple Ring Assembly:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel. The Conga Triple Ring Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Conga Triple Upright Support:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel The Conga Triple Upright Support shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Spacer with Inserts:
Shall be fabricated from 1.315" galvanized pipe and 1.120" threaded insert. The Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

68140 CONGA (SET OF 3)

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Conga Triple Back HDPE Panel to Conga Triple Upright Support using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 862. **NOTE:** *Rotate panel so that the reference arrow is face up in the top right corner.*

3. Attach Spacer with Inserts to Conga Triple Upright Support using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 870. **NOTE:** *Do not tighten connection until entire assembly is complete. Rotate Spacers so that the holes are orientated toward the center hole for the drum.*

4. Attach Conga Triple Ring Assembly to Conga Triple Upright Support using 3/8" x 3 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 868.

5. Attach Conga Triple Front HDPE Panel to Conga Triple Ring Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 862. **NOTE:** *Rotate panel so that the reference arrow is face up in the top left corner.*

6. Attach Conga Triple Ring Assembly and Conga Triple Front HDPE Panel to Spacer with Inserts using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 871.

7. Insert Conga Drum 6, Conga Drum 8, and Conga Drum 10 (Included in Drum Pkg.) into appropriate hole for each drum. Place the open end toward ground and allow the top to rest on the Conga Drum Support Assembly. Align each Spacer with Inserts so that the holes face each drum and field drill 3/8" hole thru each drum. Attach Conga Drums to Spacers with Inserts using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Plastic Spacer, 3/8" Lock Washer, and 3/8" Hex Nut. See Detail 863.

8. Plumb and level the entire assembly and tighten all fasteners

9. Attach bottom cover for Conga Drum 6, Conga Drum 8, and Conga Drum 10 using supplied adhesive. See Detail 869.

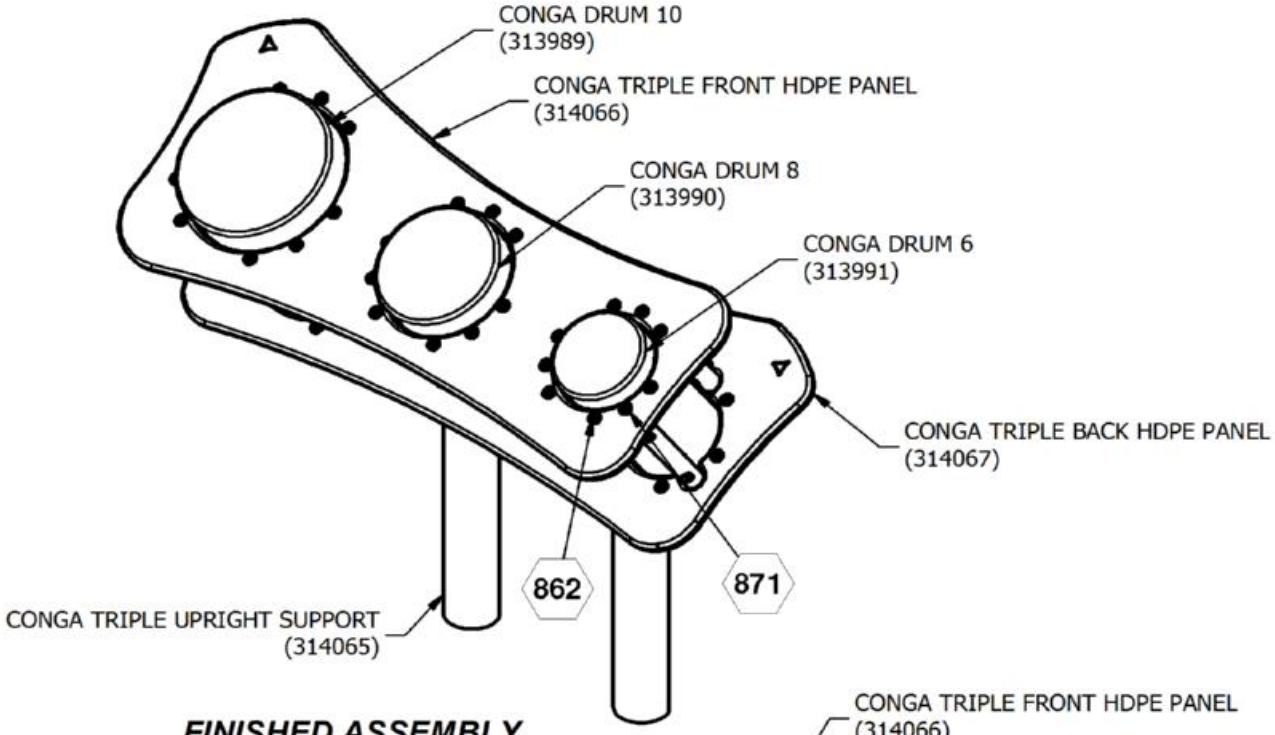
10. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

11. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines

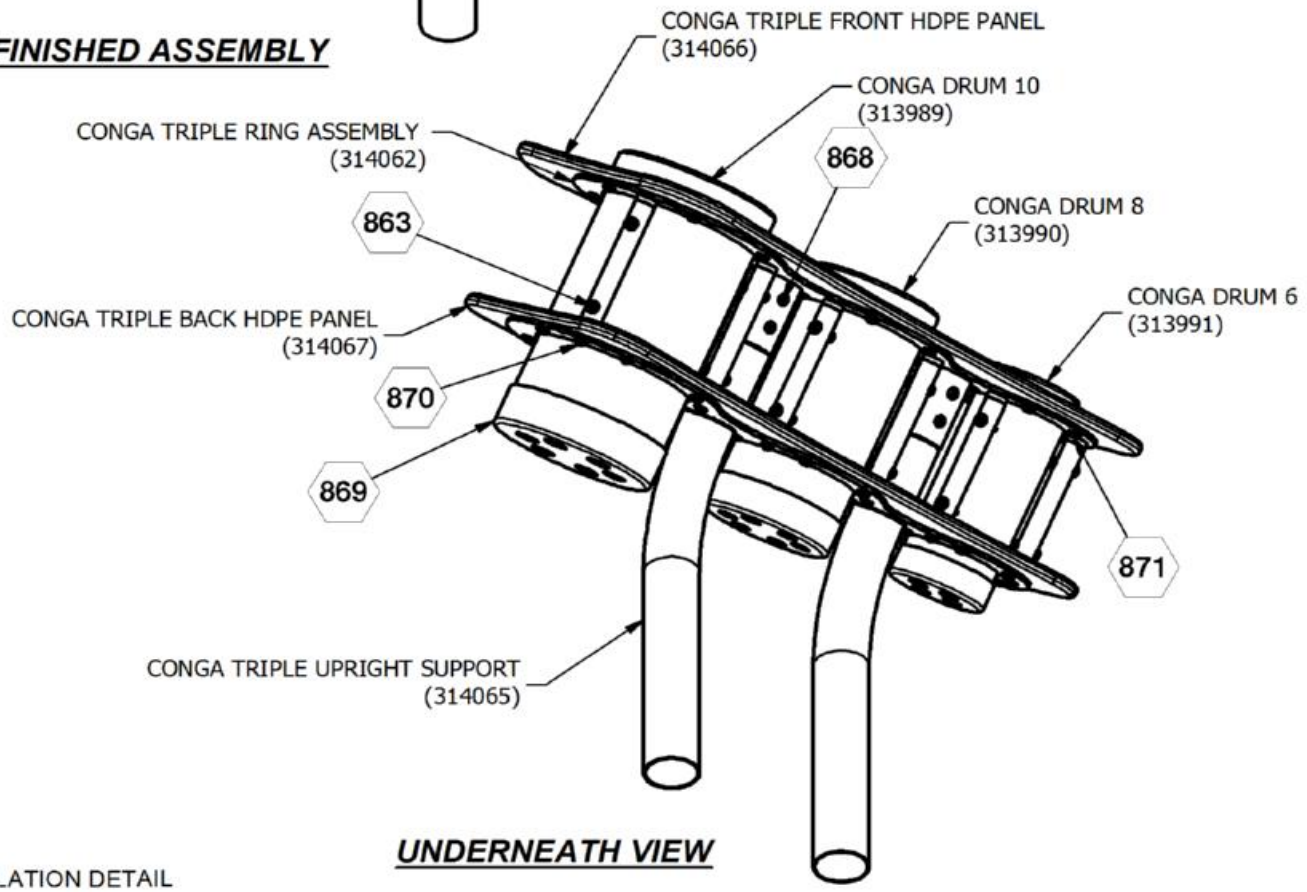
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68140 CONGA (SET OF 3)



FINISHED ASSEMBLY

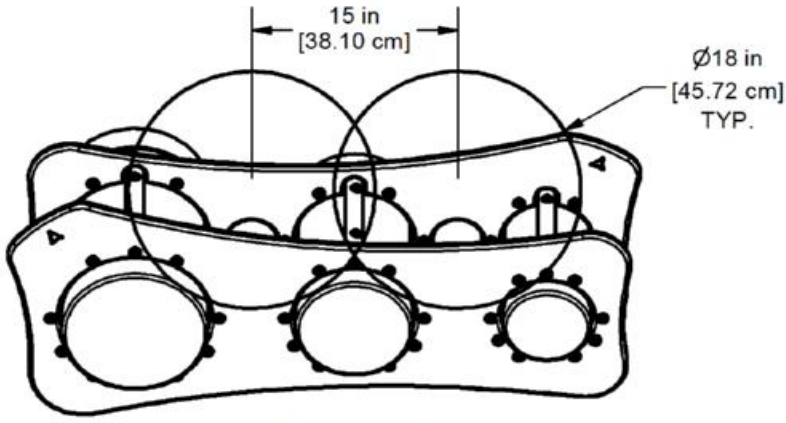


UNDERNEATH VIEW

⬡ = INSTALLATION DETAIL

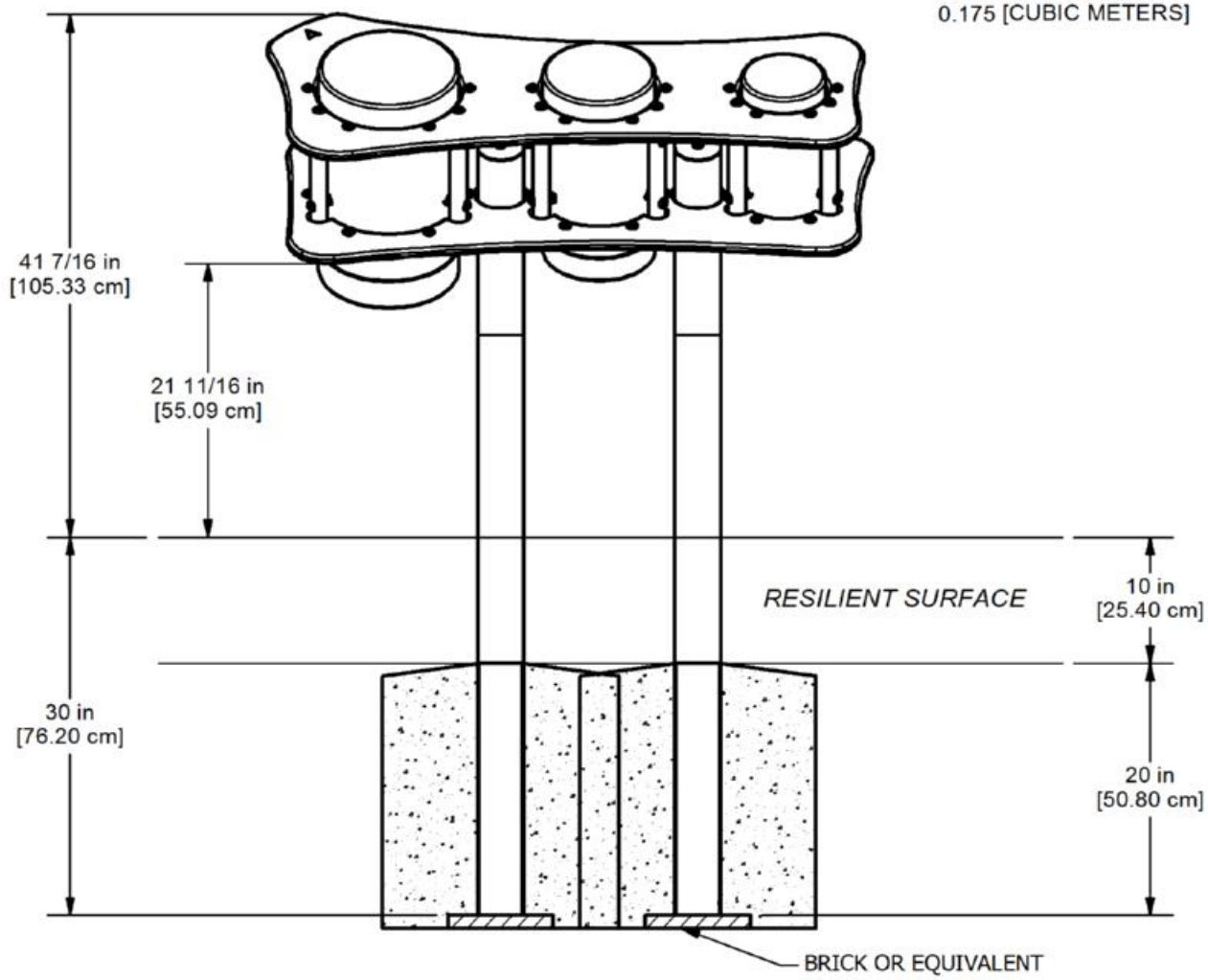
Issued/Revised: 11/3/2016

68140 CONGA (SET OF 3)



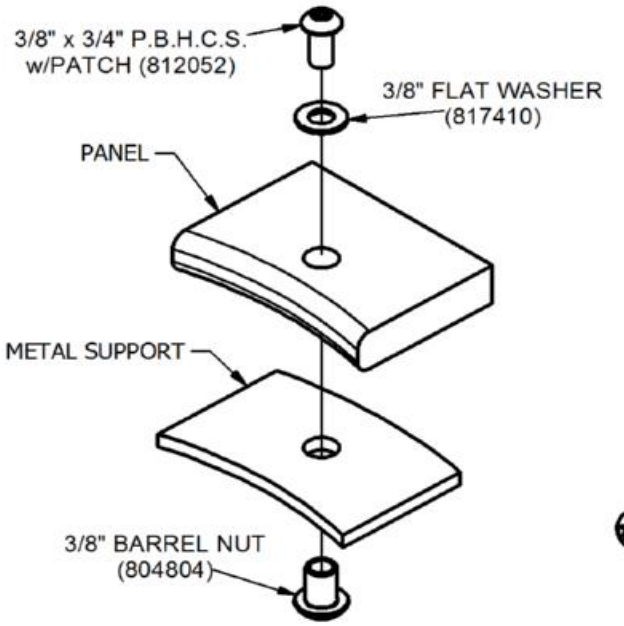
PLAN VIEW

CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

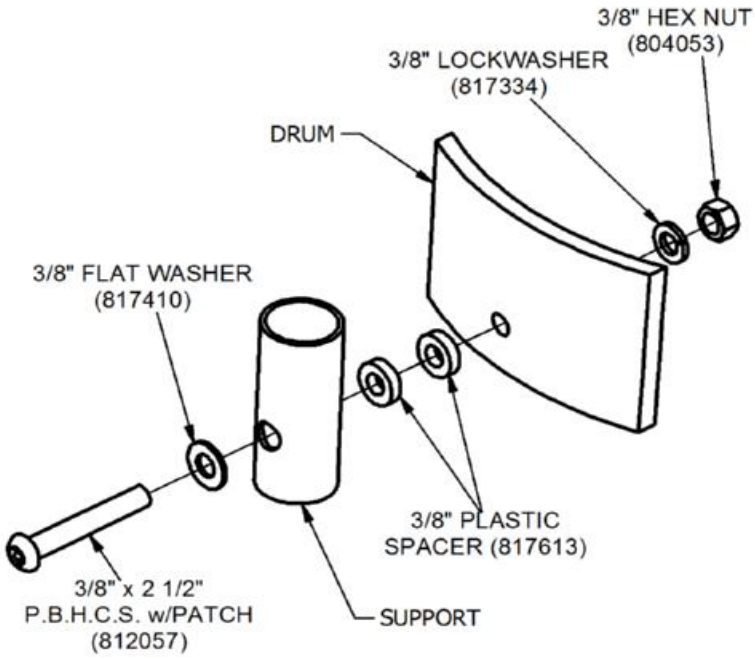


ELEVATION VIEW

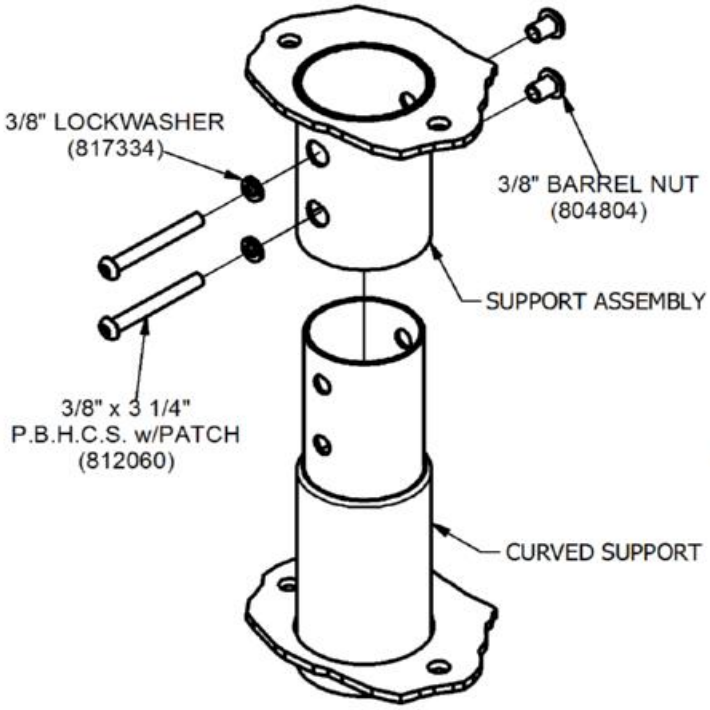
68140 CONGA (SET OF 3)



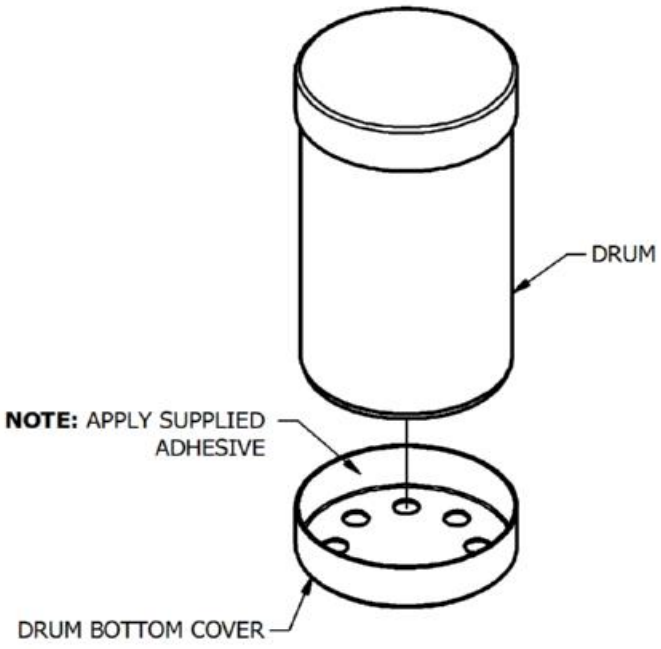
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863

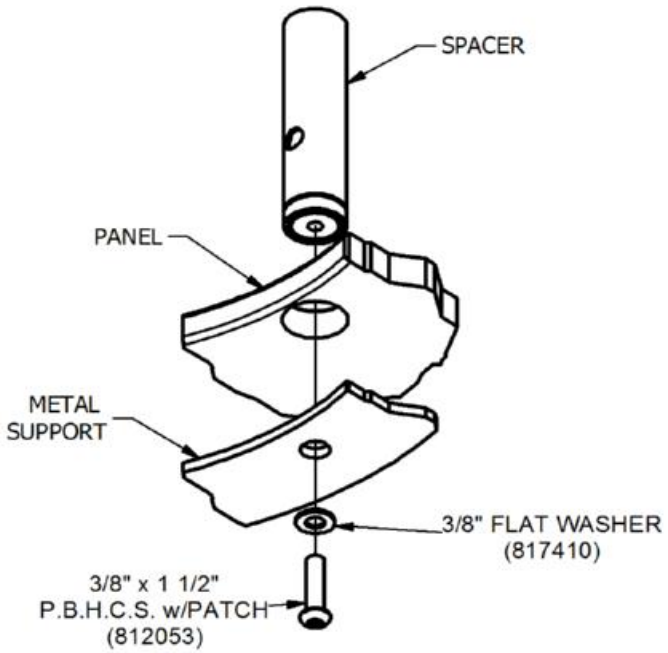


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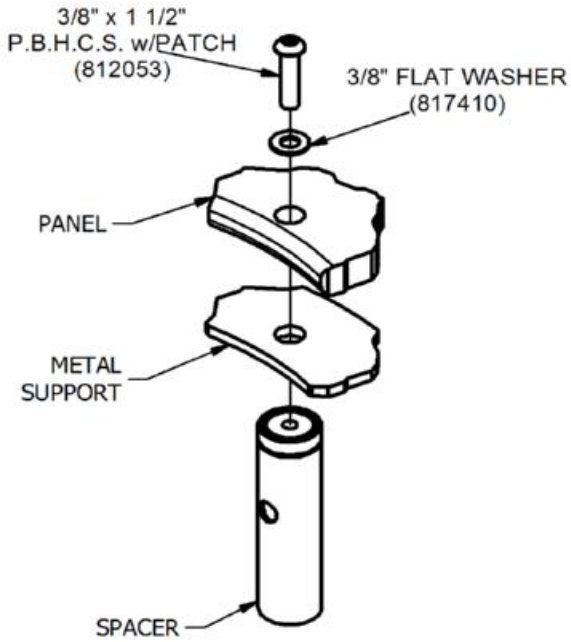


869

68140 CONGA (SET OF 3)



870



871

68156 SPINNING SEAT

Parts List		
DESCRIPTION	QTY	PART NUMBER
SENSORY WAVE SEAT	1	211584
SPINNING SEAT HANDHOLD ASS'Y	2	212788
STRAIGHT POST WELD ASS'Y	1	211694
8" DIA. BEARING ASSEMBLY	1	215654
COVER PLATE	1	219578
HARDWARE COMPLETE	1	219717
1/4" x 2" P.B.H.C.S. w/PATCH	1	812018
1/4" FLAT WASHER (5/8" O.D.)	2	817408
1/4" HEX NUT	1	804351
3/8" x 1 1/4" HEX HEAD BOLT	1	801004
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	812057
3/8" x 3" P.B.H.C.S. w/PATCH	2	812059
3/8" x 4 1/2" P.B.H.C.S. w/PATCH	2	812077
3/8" FLAT WASHER	8	817410
3/8" FLAT WASHER (1 1/4" O.D.)	1	817424
3/8" LOCK WASHER	9	817334
3/8" BARREL NUT	4	804804
1/2" ANCHOR ROD	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Sensory Wave Seat:
Shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM-638); Flexural Modulus (ASTM- D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

Arch Pipe w/ Inserts Assembly:
Shall be fabricated from 1.315" galvanized pipe and .375" zinc plated .5 mil coating with chromate finish pipe insert. The Arch Pipe w/ Inserts Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Post Weld Assembly:
Shall be an all welded assembly constructed of 2" SCH 40 galvanized steel pipe, 1/4" thick H.R. steel plate, and a shaft machined from H.R. steel.

Bearing Assembly:
Shall be an all welded assembly constructed of 1/4" H.R. steel plate, and a hub machined from C.R. steel. Two bearings shall be press fit into the weld assembly.

68156 SPINNING SEAT

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibtor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Dig holes according to the Plan View. See Plan View for dimensions and notes regarding surfacing,etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach the Bearing Assembly to the Straight Post Assembly using 3/8" x 1 1/4" Hex Head Bolt, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" O.D.). See Detail 514.

3. Plug center hole behind pommel using 1/4" x 2 P.B.H.C.S. w/Patch, 1/4" Flat Washer (5/8" O.D.), and 1/4" Hex Nut. See Detail 514.

4. Attach Sensory Wave Seat (back two holes) to the Cover Plate and Bearing Assembly using 3/8" x 2 1/4" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 514.

5. Attach Sensory Wave Seat (front two holes) to the Cover Plate and Bearing Assembly using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" FlatWasher, and 3/8" Barrel Nut. See Detail 514.

6. Attach top part of Spinning Seat Handhold Ass'y to top part of Sensory Wave Seat using 3/8" x 4 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 515.

7. Attach bottom part of Spinning Seat Handhold Ass'y to bottom part of Sensory Wave Seat using 3/8" x 3" P.B.H.C.S w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 516.

8. Insert the Anchor Rod into the bottom of the Straight Post Assembly. See Detail 184.

9. Plumb and level the entire assembly and tighten all fasteners.

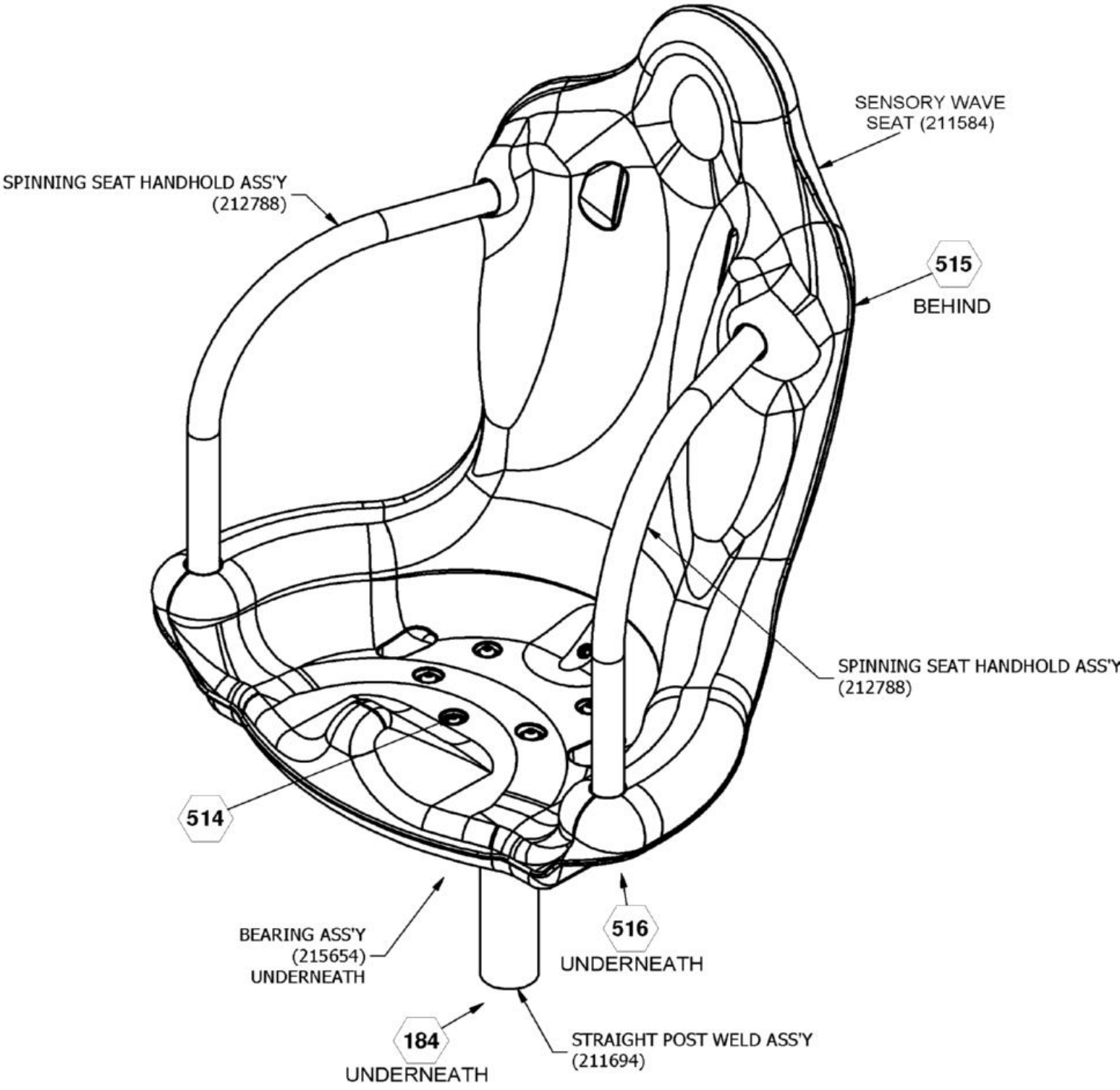
10. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

11. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

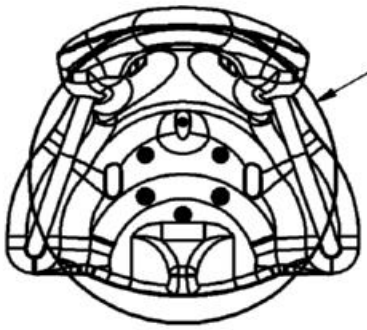
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68156 SPINNING SEAT



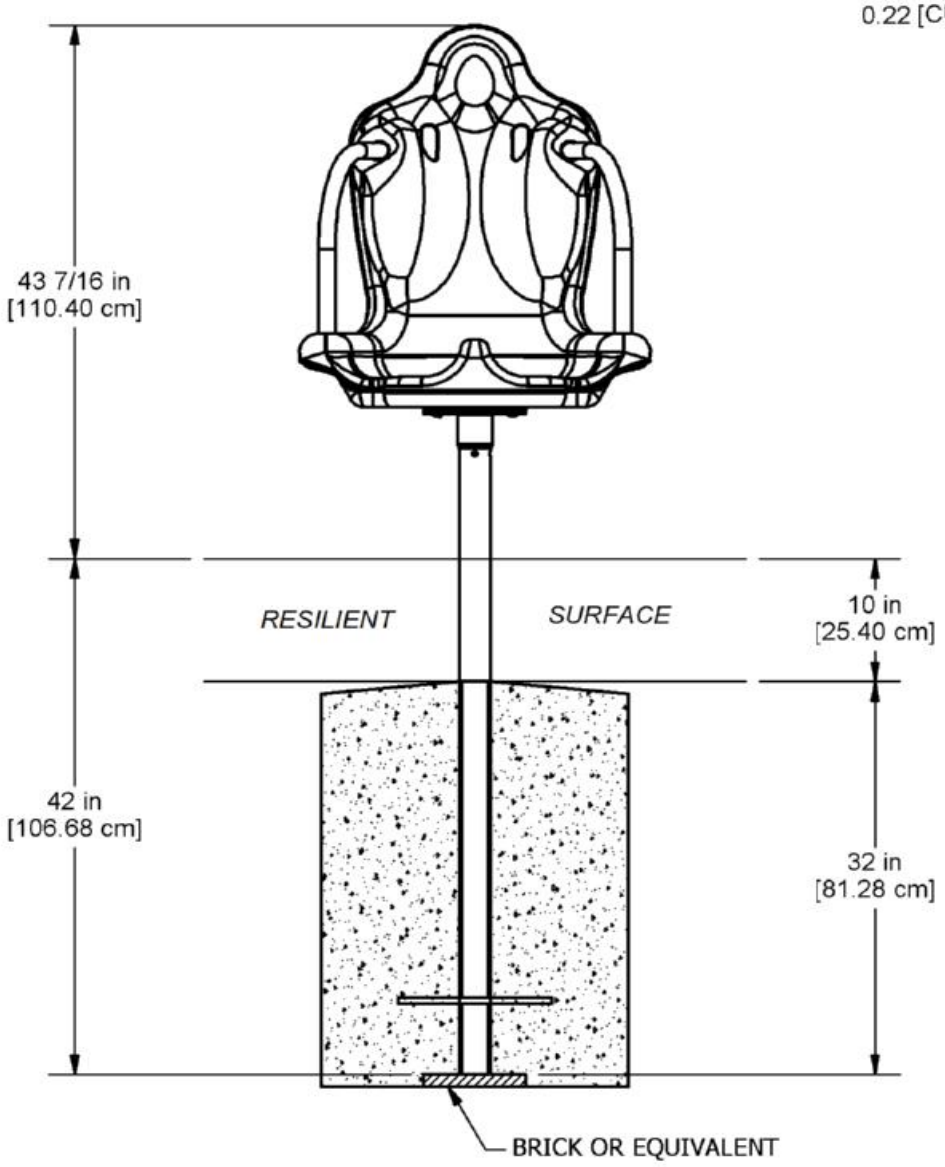
FINISHED ASSEMBLY

68156 SPINNING SEAT



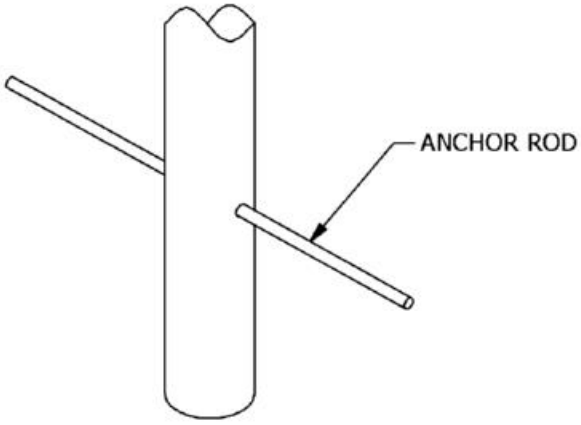
PLAN VIEW

CONCRETE REQUIRED
0.29 CUBIC YARDS
0.22 [CUBIC METERS]

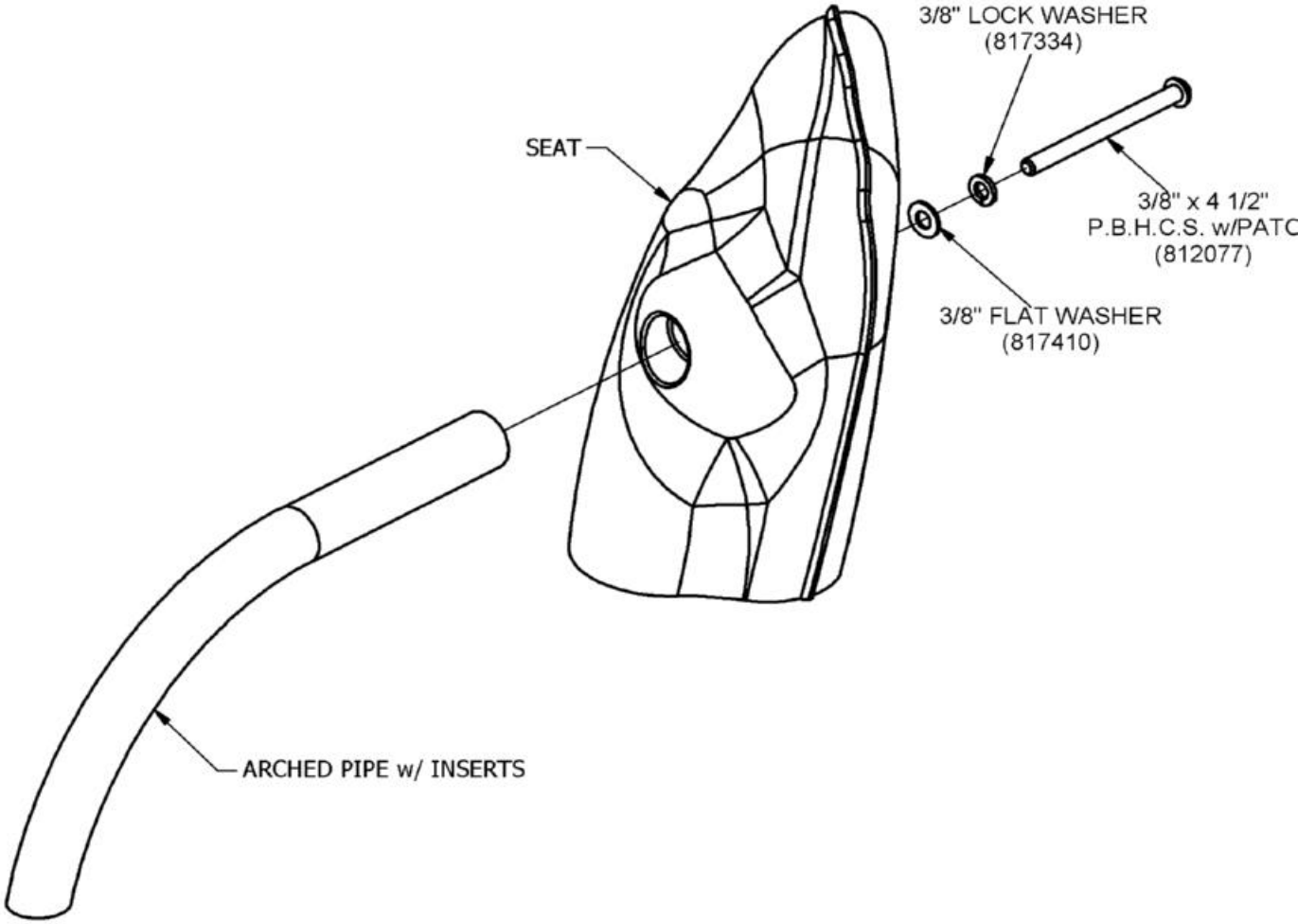


ELEVATION VIEW

68156 SPINNING SEAT

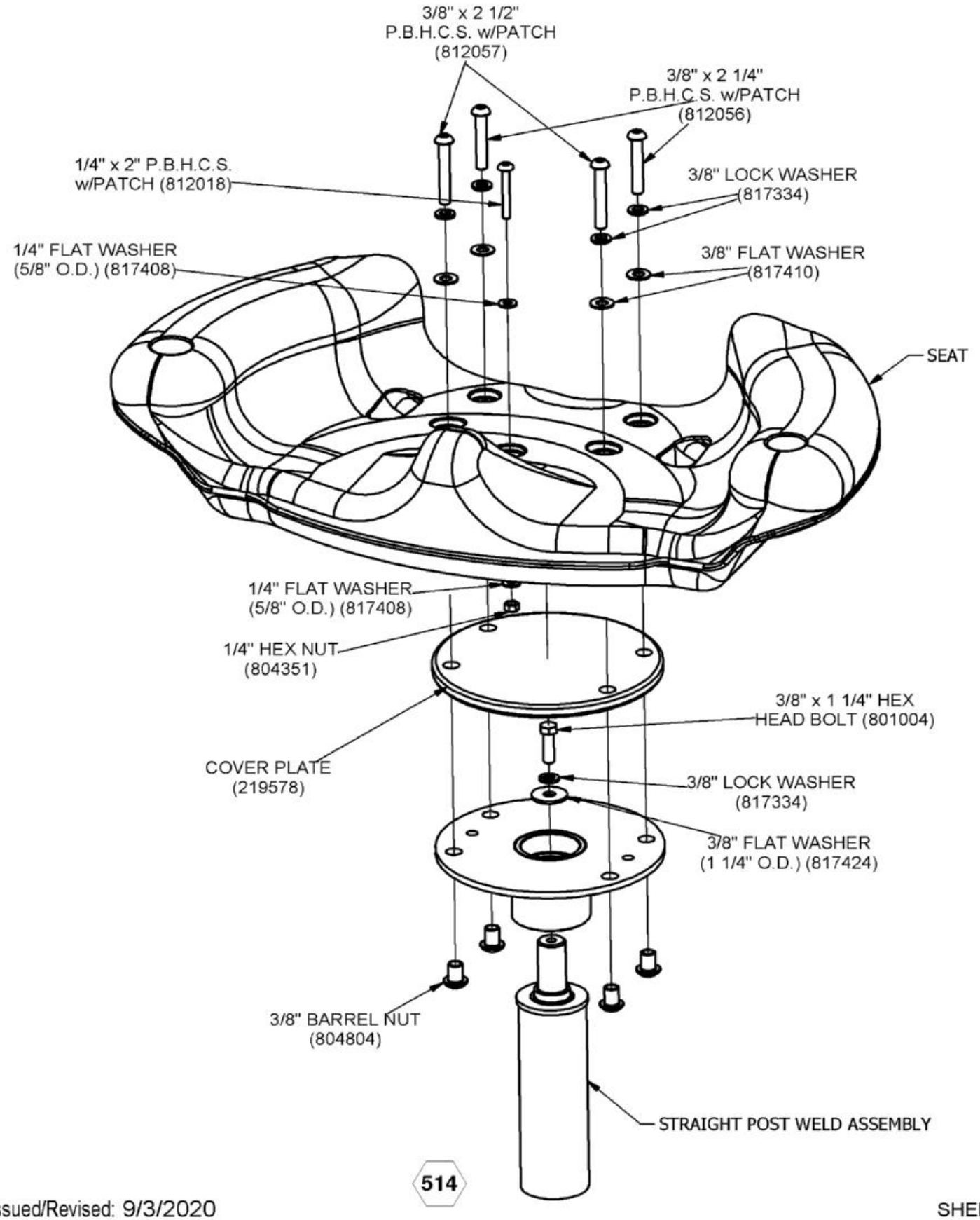


184

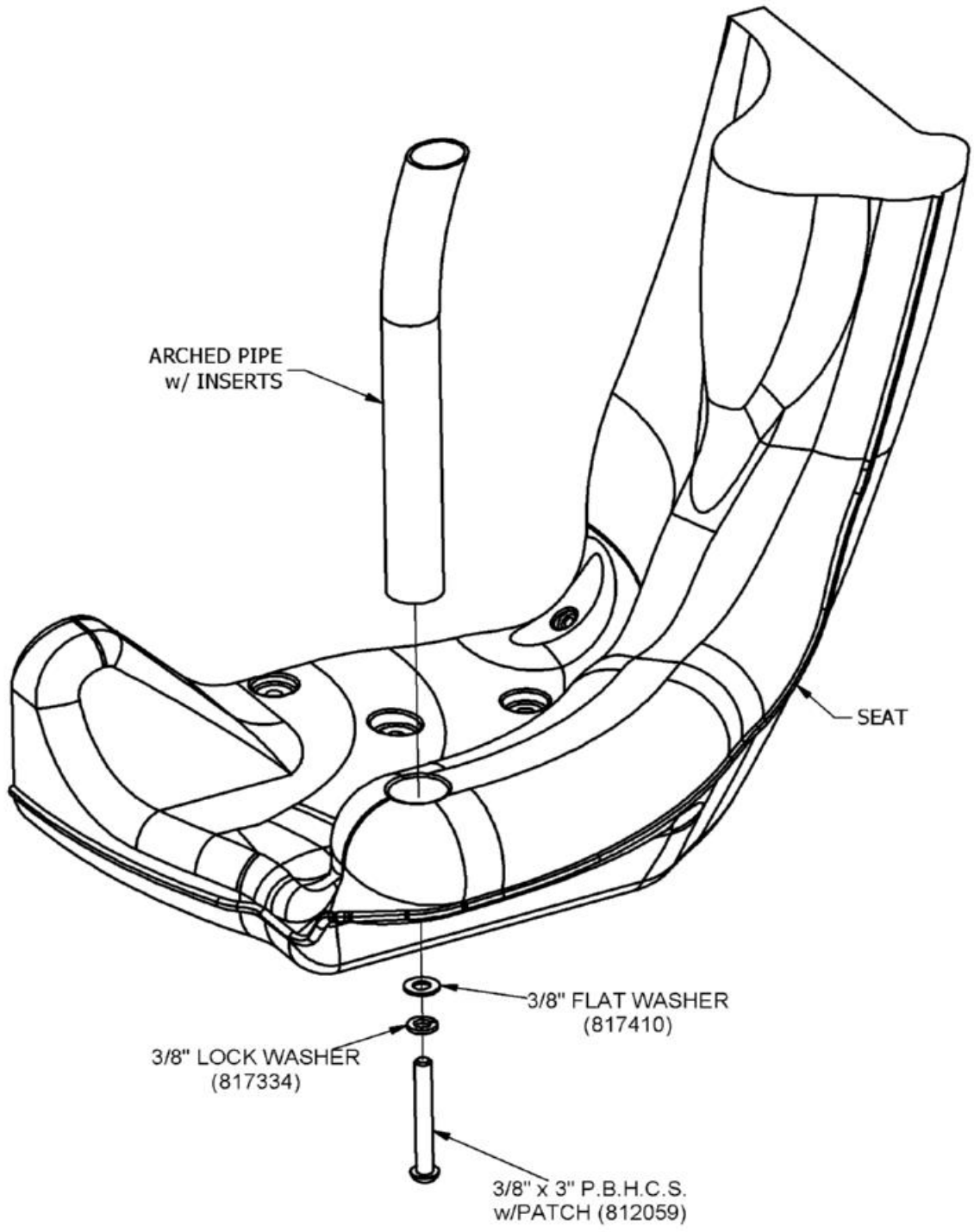


515

68156 SPINNING SEAT



68156 SPINNING SEAT



68176 SPINNING SEAT SAFETY BELT KIT

Parts List		
DESCRIPTION	QTY	PART NUMBER
ADAPTIVE SWING SAFETY BELT	1	167111
HARDWARE COMPLETE	1	211955
1/4" x 1/2" B.H.C.S. w/PATCH	1	812011
1/4" x 3/4" B.H.C.S.	2	811010
1/4" x 2" P.B.H.C.S. w/PATCH	1	812018
1/4" FLAT WASHER (5/8" O.D.)	4	817408
1/4" HEX NUT	3	804351

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

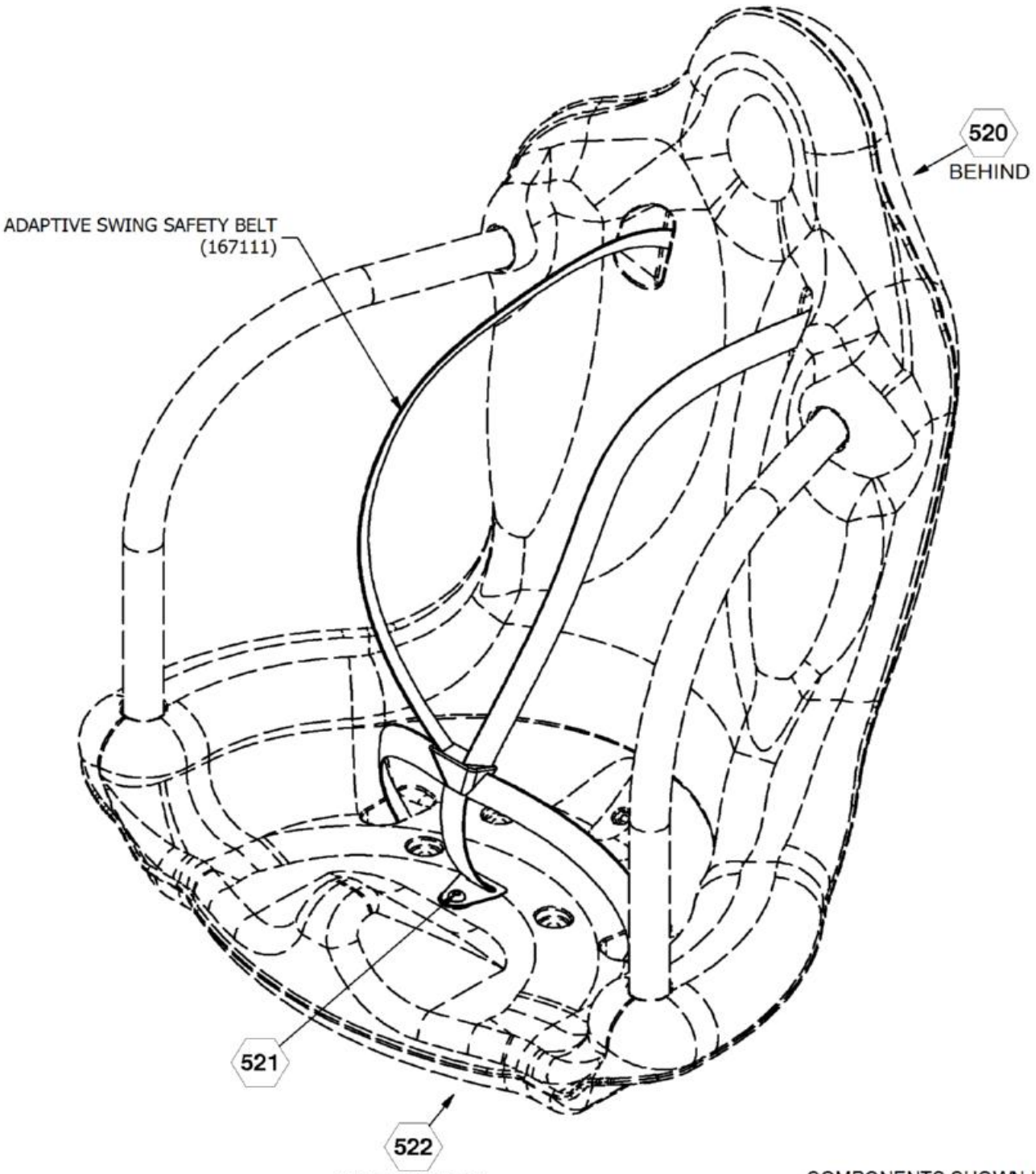
INSTALLATION INSTRUCTIONS:

1. Feed top straps of Safety Belt through top slots in Spinning Seat, attach to back of Spinning Seat using 1/4" x 1/2" B.H.C.S. w/Patch and 1/4" Flat Washer. See Detail 520.
2. Attach shortest strap to open hole close to the pommel using 1/4" x 2" P.B.H.C.S. w/Patch, 1/4" Flat Washer, and 1/4" Hex Nut. See Detail 521.
3. Feed bottom straps of Safety Belt through slots in seat area of Spinning Seat, Attach to bottom of Spinning Seat using 1/4" x 3/4" B.H.C.S., 1/4" Flat Washer, and 1/4" Hex Nut. See Detail 522.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours befores use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68176 SPINNING SEAT SAFETY BELT KIT



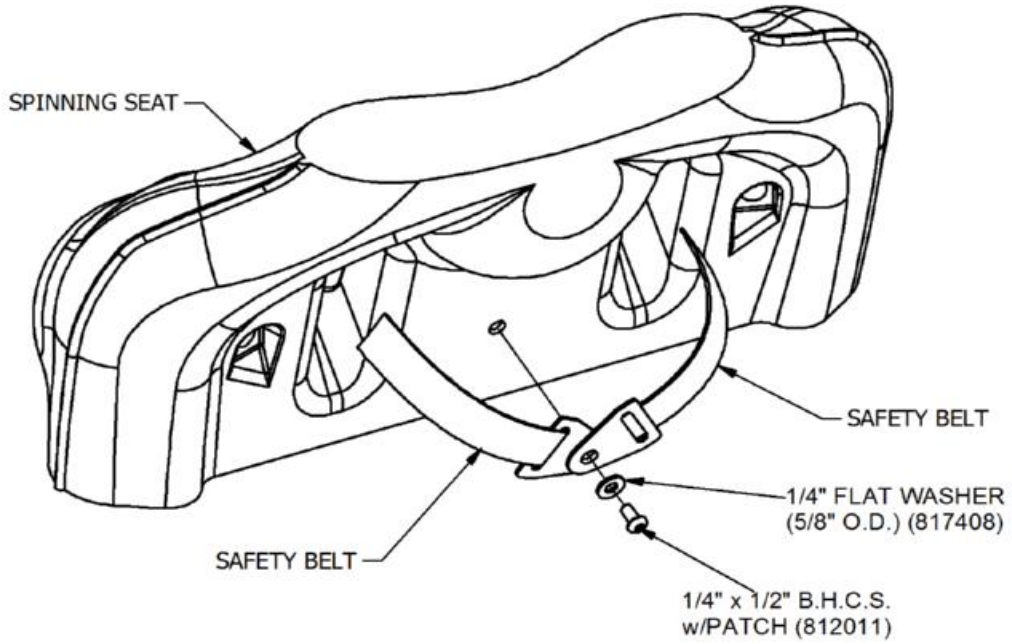
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

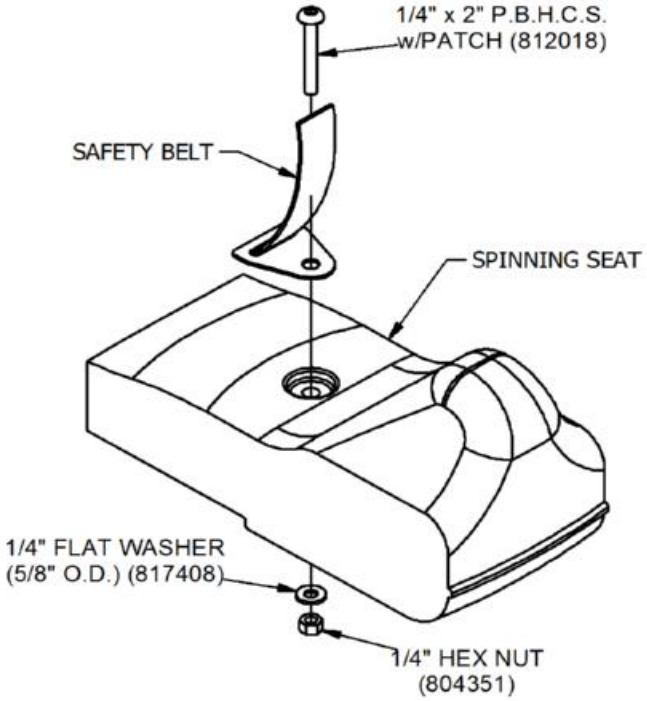
Issued/Revised: 5/4/2017

FINISHED ASSEMBLY

68176 SPINNING SEAT SAFETY BELT KIT



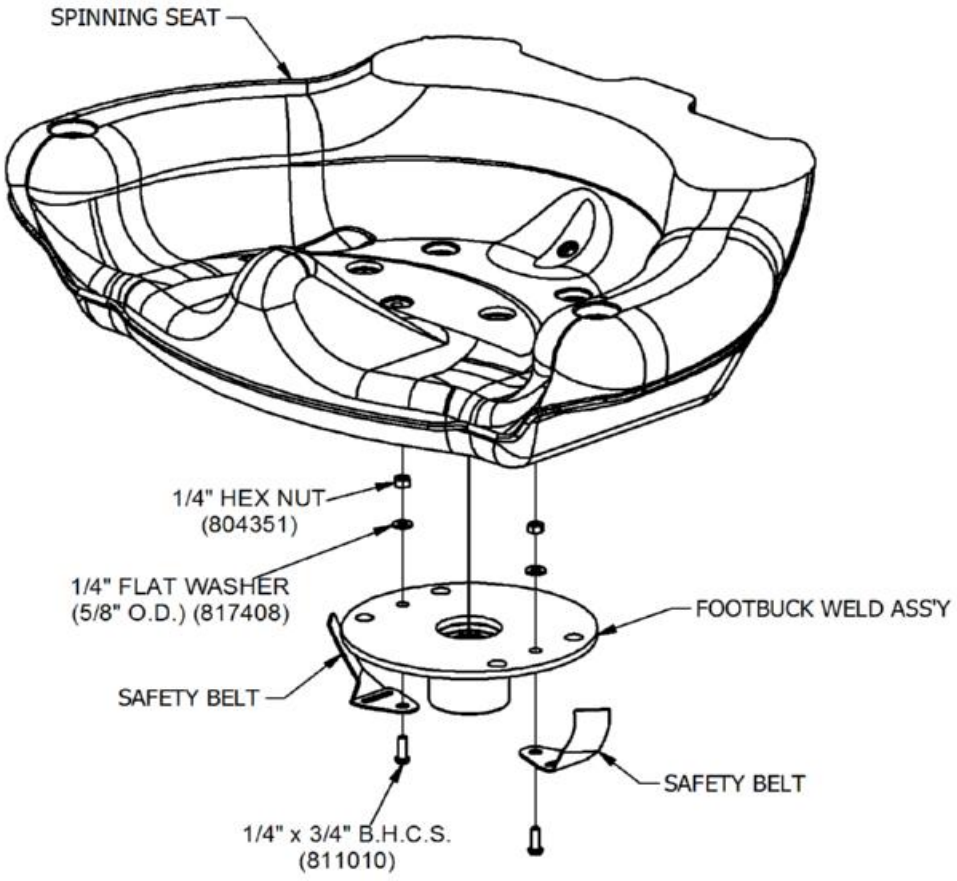
520



521

68176 SPINNING SEAT SAFETY BELT KIT

NOTE:
FEED SAFETY BELTS THROUGH SEAT AND ATTACH BEFORE ATTACHING SEAT TO PLATE.



522

Duramax

69046 (2'-0"), 69047 (2'-8",3'-4"), 69048 (4'-0"), 69049 (4'-8", 5'-4"), 69050 (6'-0") Vertical Access Ladder

Parts List						
DESCRIPTION	69046	69047	69048	69049	69050	PART NUMBER
3 1/2" O.D. DECK CLAMP	2	2	2	2	2	301731
VERTICAL ACCESS LADDER, 2'	1	0	0	0	0	309816
VERTICAL ACCESS LADDER, 2'-8"	0	1	0	0	0	309820
VERTICAL ACCESS LADDER, 4'	0	0	1	0	0	309823
VERTICAL ACCESS LADDER, 4'-8"	0	0	0	1	0	309826
VERTICAL ACCESS LADDER, 6'	0	0	0	0	1	309829
SPLIT ENTRANCE	2	2	2	2	2	313623
HARDWARE COMPLETE	1	0	1	0	1	309849
HARDWARE COMPLETE	0	1	0	1	0	309850
8" EXTENSION	0	2	0	2	0	307623*
1/4" x 3/4" DRIVE RIVET	2	2	2	2	2	168449*
3/8" x 1" P.B.H.C.S. w/PATCH	2	2	2	2	2	812050*
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	4	4	4	4	812053*
3/8" x 2" HEX HEAD BOLT	0	2	0	2	0	801007*
3/8" LOCK WASHER	0	2	0	2	0	817334*
3/8" FLAT WASHER	4	4	4	4	4	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	2	2	2	2	2	817424*
3/8" HEX NUT	0	2	0	2	0	804053*
3/8" HEAVY HEX NUT	2	2	2	2	2	804200*
3/8" LOCK NUT	2	2	2	2	2	804353*
3/8" BARREL NUT	2	2	2	2	2	804804*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Select the appropriate deck to receive the Vertical Access Ladder. Dig footing holes at appropriate locations and position the lower ends of the Ladder into footing holes.

2. Attach 3 1/2" O.D. Deck Clamp to upright using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, and 3/8" Heavy Hex Nut. Refer to Elevation View for Clamp height and location. See Detail 001.

3. Attach Split Entrance to 3 1/2" O.D. Deck Clamp using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 797.

4. Insert smashed end of Split Entrance through the slot on top of the Deck. Attach Vertical Ladder to Deck flange and Split Entrance smashed end using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Flat Washer (1-1/4" O.D.), and 3/8" Locknut as shown in Detail 439.

69046 (2'-0"), 69047 (2'-8",3'-4"), 69048 (4'-0"), 69049 (4'-8", 5'-4"), 69050 (6'-0") Vertical Access Ladder

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

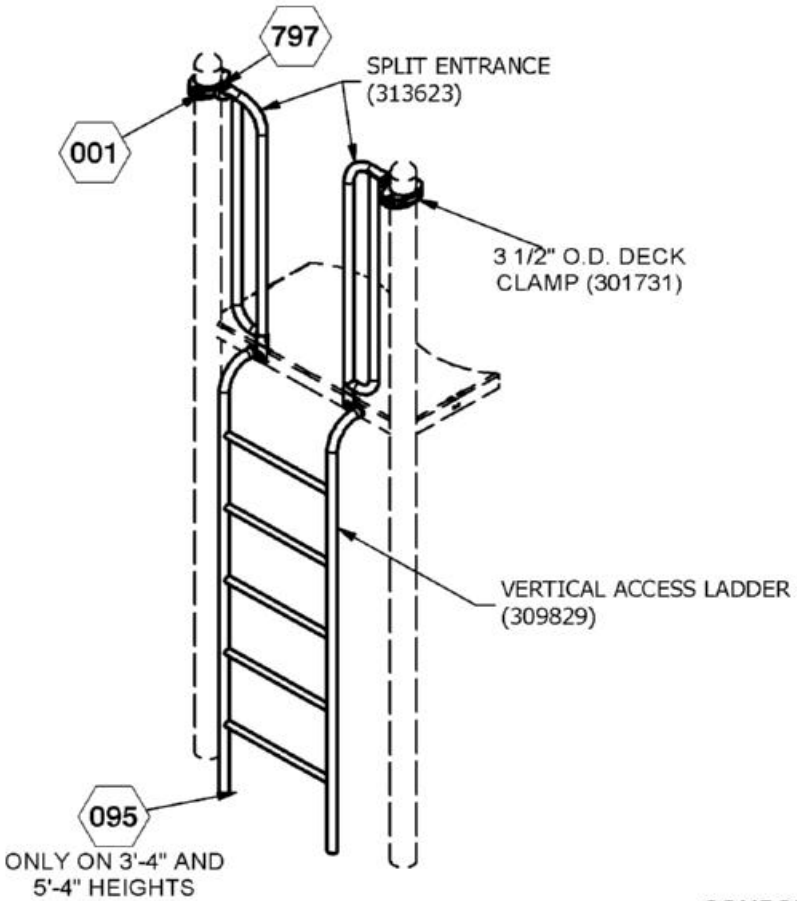
5. Vertical Access Ladders at 3'-4" and 5'-4" deck heights require an extension. Attach extension to legs of ladder using 3/8" x 2" Hex Head Bolt, 3/8" Lockwasher, and 3/8" Hex Nut. See Detail 095.

6. Plumb and level the entire Vertical Ladder Assembly and tighten all fasteners. Pour concrete footing to within 4" to the top and taper away from posts to allow water drainage. Allow to cure at least 48 hours before use.

7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines.* Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

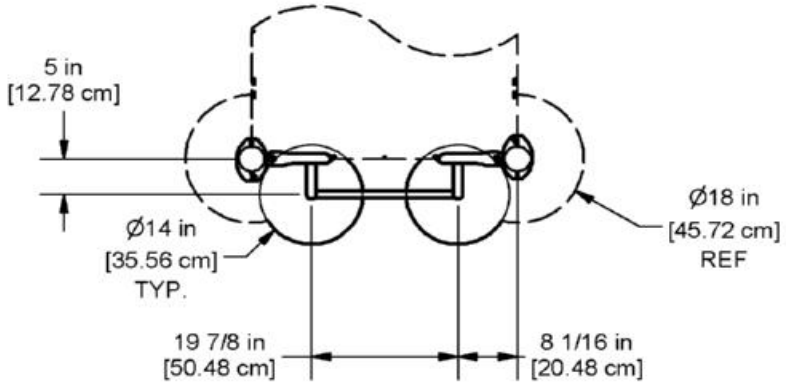


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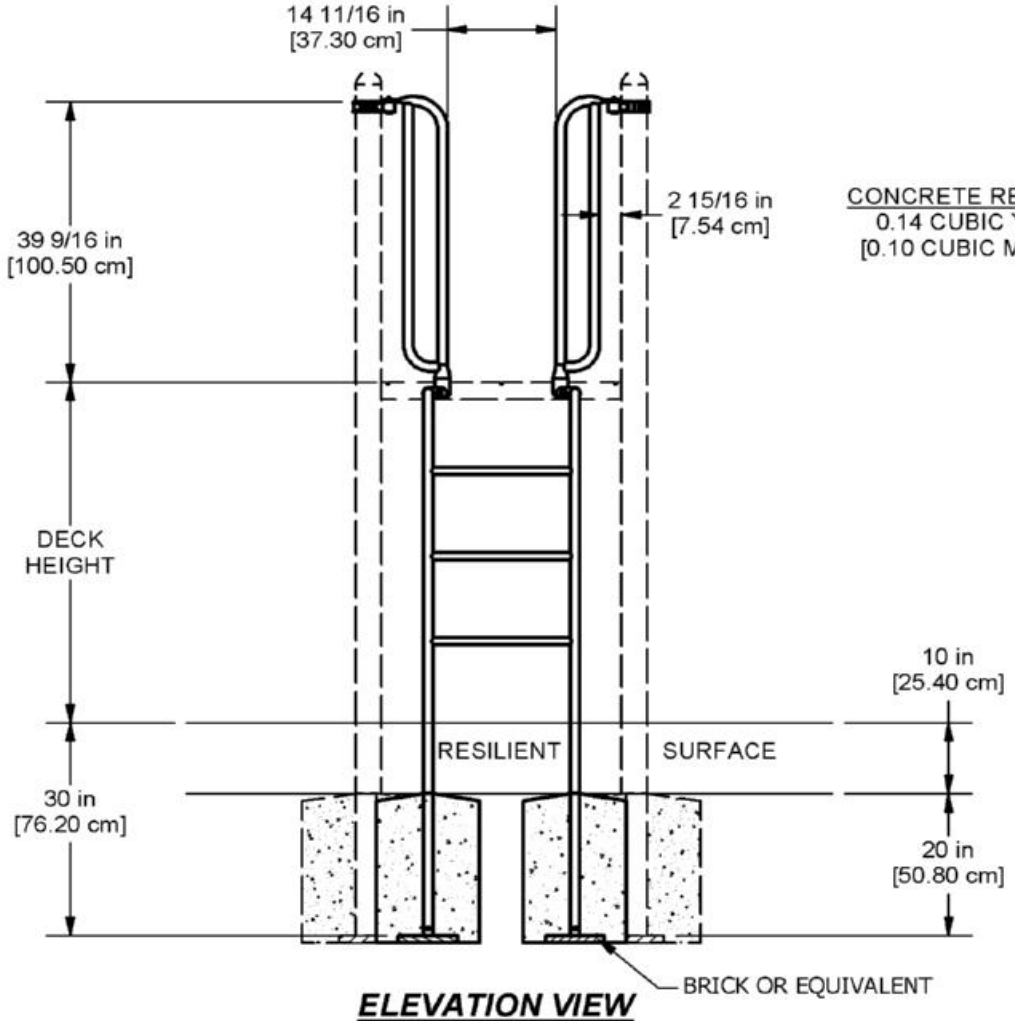
FINISHED ASSEMBLY
6' VERISON SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

69046 (2'-0"), 69047 (2'-8",3'-4"), 69048 (4'-0"), 69049 (4'-8", 5'-4"), 69050 (6'-0") Vertical Access Ladder



PLAN VIEW



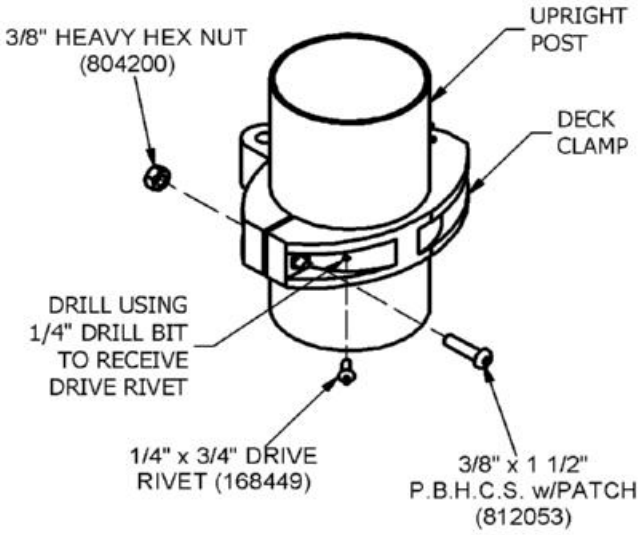
CONCRETE REQUIRED:
0.14 CUBIC YARDS
[0.10 CUBIC METERS]

ELEVATION VIEW

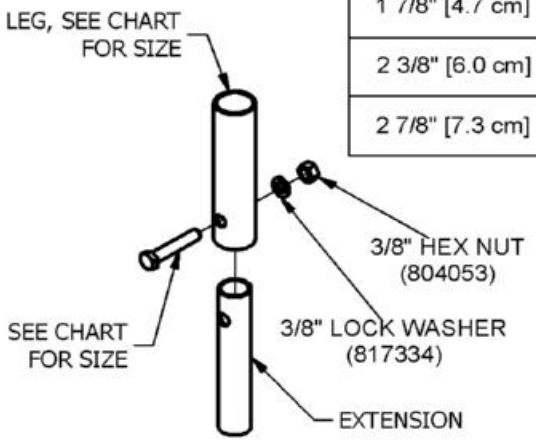
Issued/Revised: 7/18/2024

69046 (2'-0"), 69047 (2'-8",3'-4"), 69048 (4'-0"), 69049 (4'-8",5'-4"), 69050 (6'-0") Vertical Access Ladder

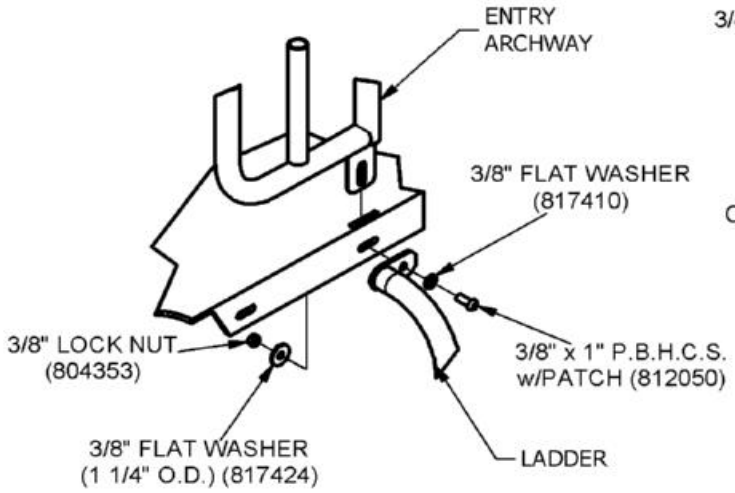
LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)



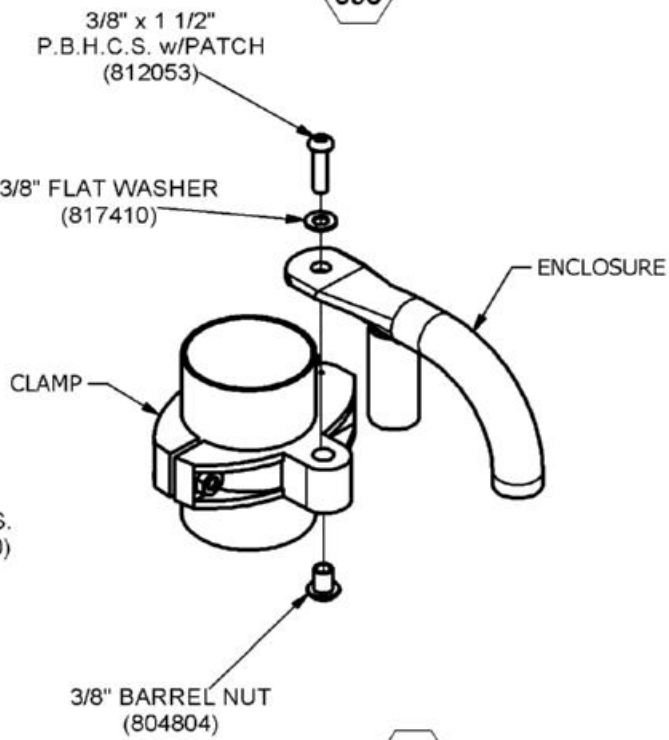
001



095



439



797

Duramax

69302 SQUARE DECK
69303 TRIANGLE DECK

Parts List			
DESCRIPTION	69302	69303	PART NUMBER
SQUARE DECK	1	0	312807
TRIANGLE DECK	0	1	312811
HARDWARE COMPLETE	1	0	312841
HARDWARE COMPLETE	0	1	312864
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	812052*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	3	812051*
3/8" LOCK WASHER	2	2	817334*
3/8" FLAT WASHER (1 1/4" O.D.)	6	5	817424*
3/8" T-NUT	2	2	804556*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Uprights in dug holes at appropriate height per Upright instructions. Get the height required for the deck from the Plan View Diagram.

2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the Deck. Be careful not to expost the steel.

3. Attach Deck to Uprights using 3/8" x 1 1/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 717.

4. Attach side-by-side Decks to one another using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" T-Nut. See Detail 061.

5. When all decks are completed and correct, pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow curing at least 48 hours before use.

6. When structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

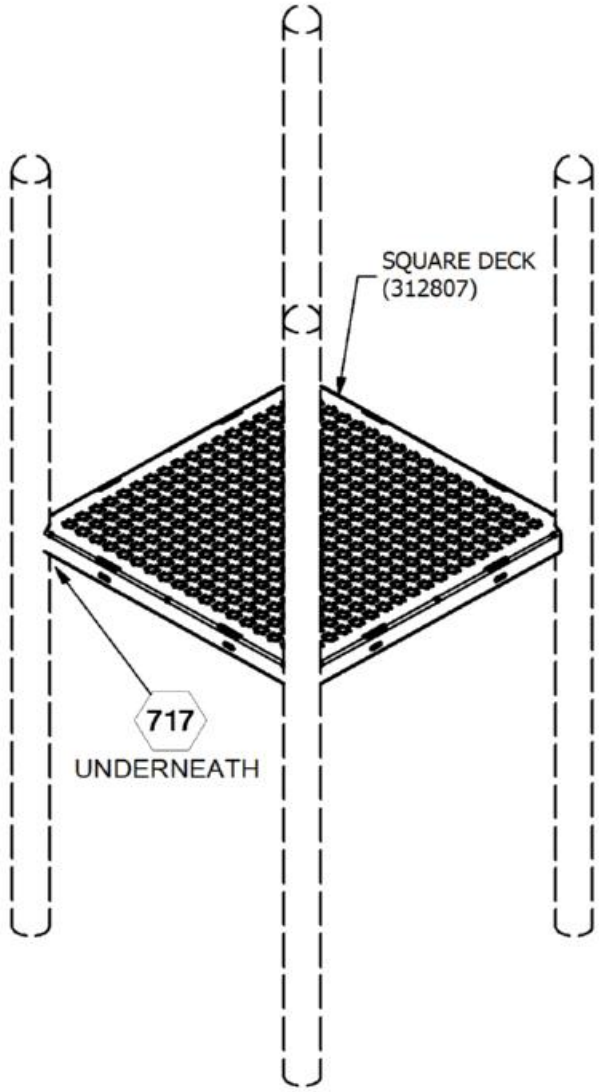
Note: To cushion accidental falls by children, Park Structures strongly recommends that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc. to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your *Safety Guidelines*, provided within the assembly instructions packet.

MAINTENANCE PROCEDURE:

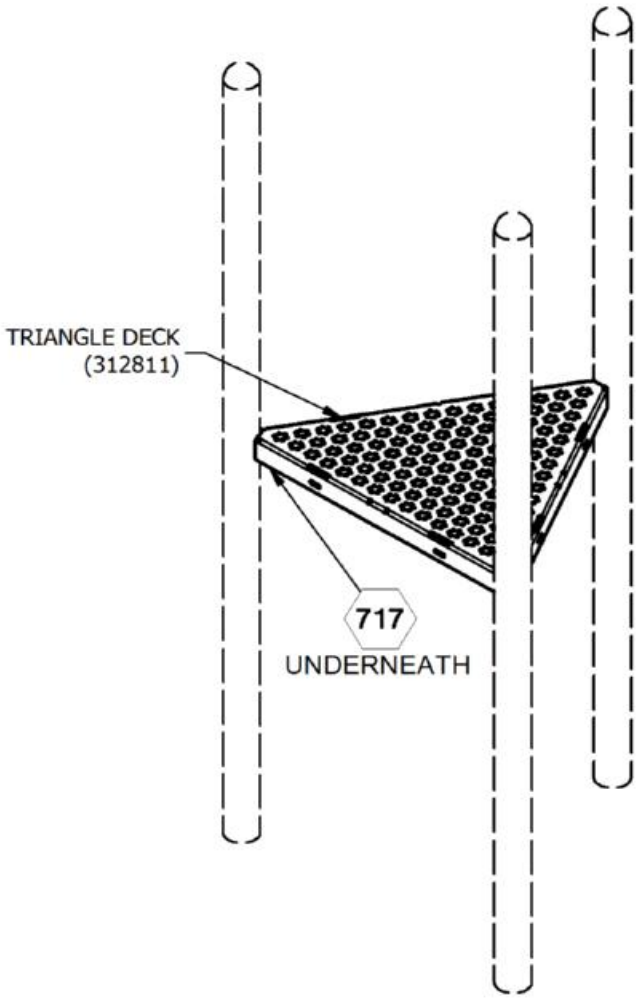
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Duramax

69302 SQUARE DECK
69303 TRIANGLE DECK



SQUARE DECK



TRIANGLE DECK

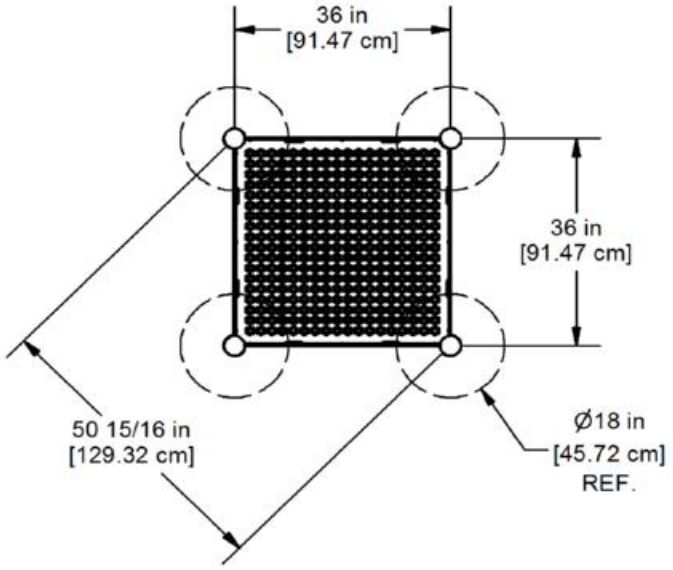
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

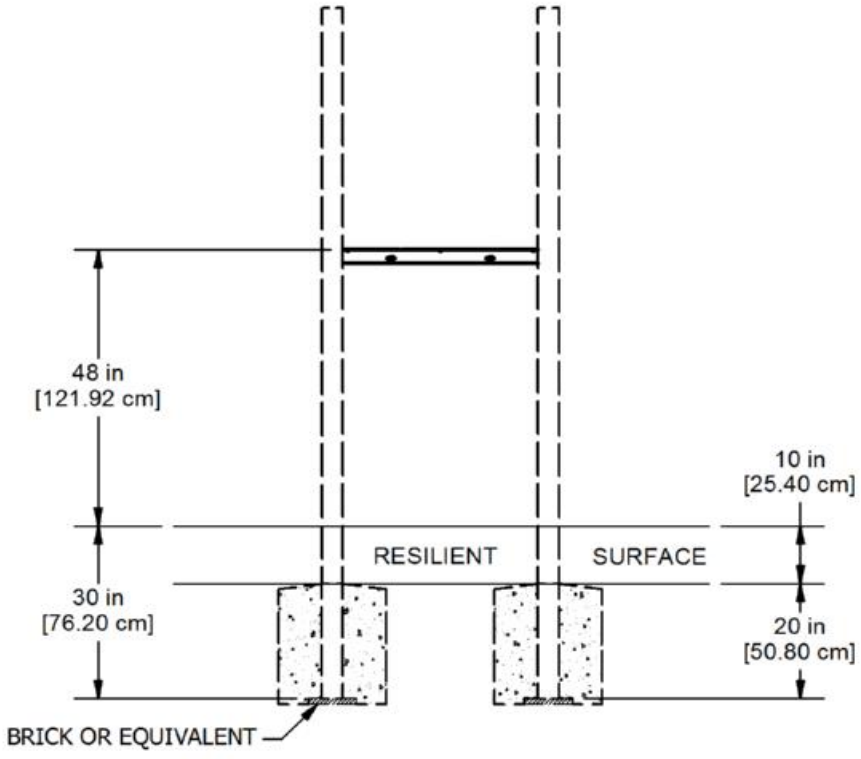
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/27/2014

69302 SQUARE DECK
69303 TRIANGLE DECK

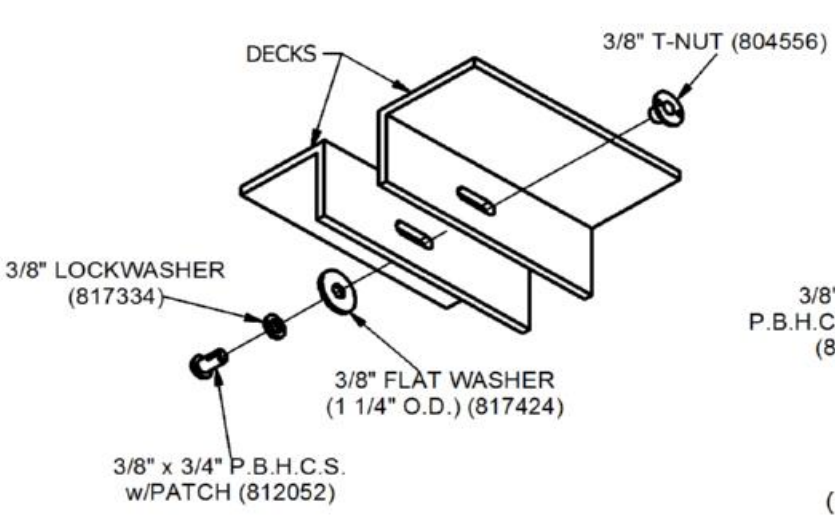


PLAN VIEW

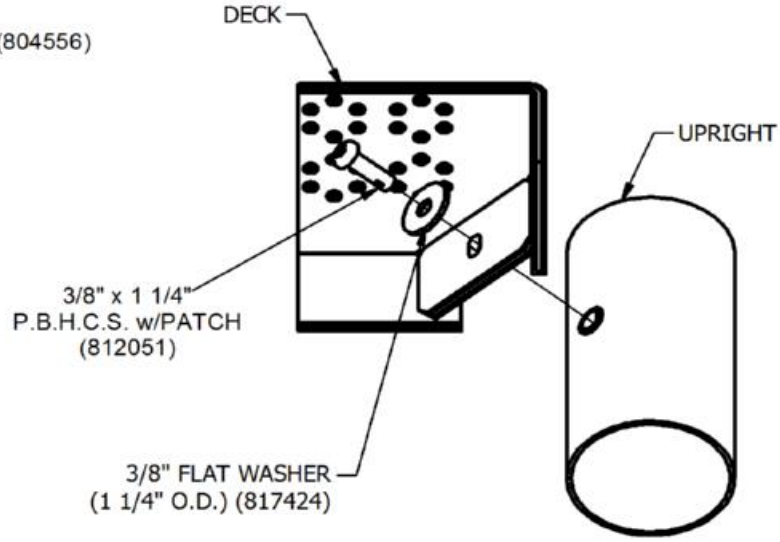


ELEVATION VIEW
69302 SHOWN

69302 SQUARE DECK
69303 TRIANGLE DECK



061



717

Duramax

69617 DURAMAX 10' x 10' SHADE 1' TO 6'
69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'

Parts List			
DESCRIPTION	69617	69618	PART NUMBER
10' SQUARE FABRIC PACKAGE	1	1	223002
CABLE CLAMP	4	4	**
10' SQUARE SHADE FABRIC	1	1	**
3/16" CABLE, 50'-0" LG	1	1	**
10' RAFTER	4	4	223018
SHADE CROWN WELD ASSEMBLY	1	0	223012
SHADE CROWN WELD ASSEMBLY	0	1	223020
IN-GROUND EXTENSION	1	1	223116
GLIDE ELBOW	4	4	316306
HARDWARE COMPLETE	1	1	316969
1/4" x 1" SELF TAPPING TORX w/PATCH	8	8	HWS0021
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	8	8	HWS0081
1/2" x 4" HEX HEAD BOLT	4	4	801215
1/2" LOCKNUT	4	4	804355
1/2" ANCHOR ROD	2	2	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

69617 DURAMAX 10' x 10' SHADE 1' TO 6'
69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'

INSTALLATION INSTRUCTIONS:

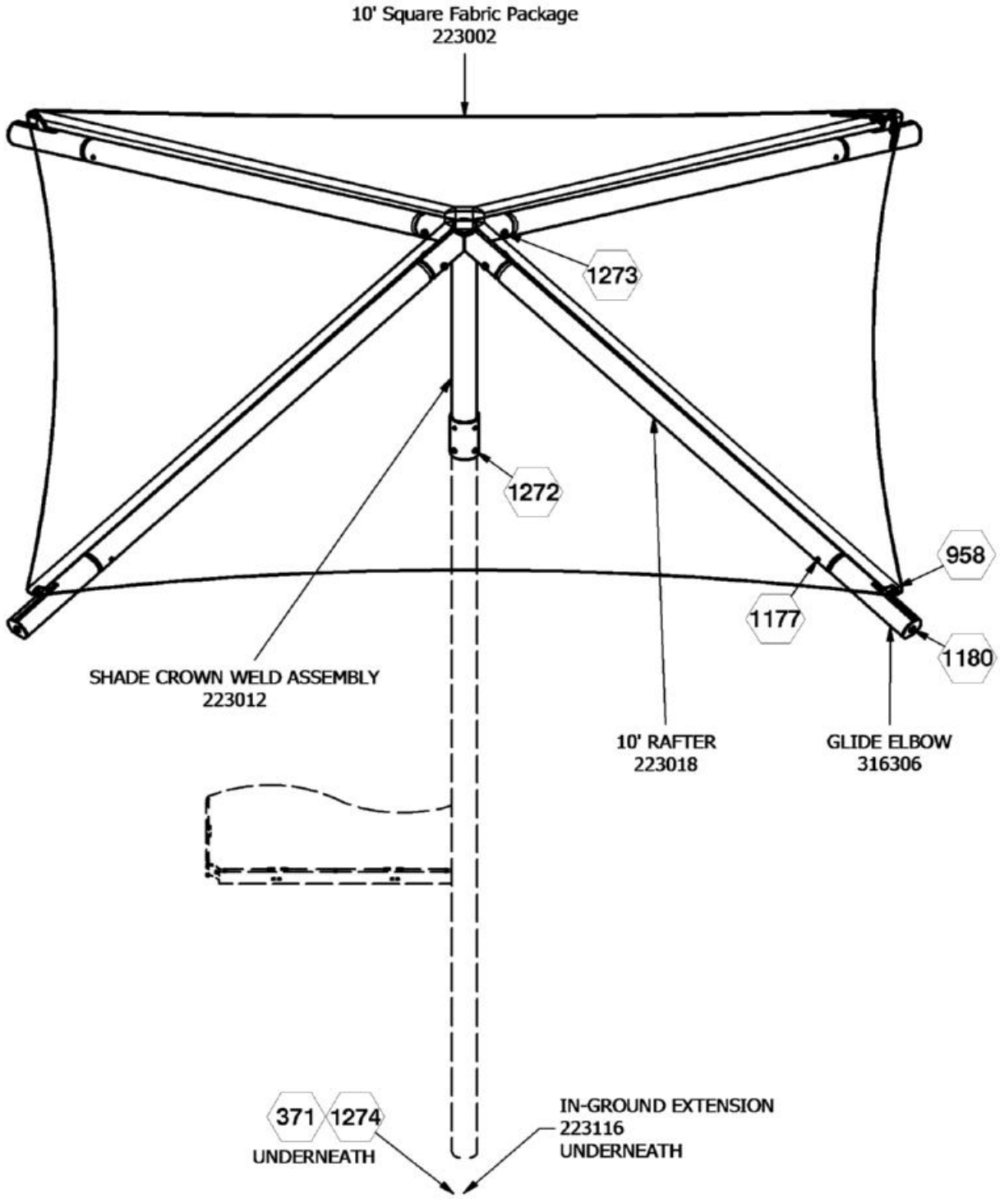
1. Determine which upright is to receive the 10' x 10' Shade. Refer to order Top View.
2. Put Anchor Rods into In-Ground Extensions. See Detail 371.
3. Attach the In-Ground Extension to the existing upright. See Detail 1274.
4. Attach the Shade Crown Weld Assembly to the existing upright. See Detail 1272.
5. Attach the Glide Elbows to the 10' Rafters. See Detail 956.
6. Attach the assembled rafters to Shade Crown Weld Assembly. See Detail 1273. **NOTE:** Orientation of hook on Glide Extension is critical.
7. Starting at any corner thread the steel cable through the jump-out hole under loop at the edge of the shade fabric until it comes out the end of the sleeve at the next corner. Continue threading cable through sleeve all the way around the shade fabric until the entire shade fabric has been encircled. Cable will exit through jump-out hole on the same corner it was started. Leave a loop of approximately 9 inches at each non-tensioning corner. Spread the shade fabric over the frame and secure corners to the Glide Hooks. It may be necessary to flap the loose corners up and down to stretch the shade fabric so that it fits over the Glide Hooks. **NOTE:** The Steel Cable must always pass under the Glide Hooks. See Detail 958.
8. Pull tight by hand then using the clamps provided, fasten the steel cables together. All clamps must be used. After clamps are tightened, thread the excess steel cable back into the jump-out holes in the shade fabric. **NOTE:** If any portion of the steel cable was bent/kinked during the tensioning process, it must be straightened by bending the steel cable back in the opposite direction of the bend. **NOTE:** Cable clamp must be installed with nuts facing down. Clamps must be touching each other. **NOTE:** Any bolt end protruding more than two full threads beyond face of the nut promptly cut-off flush, file smooth, and treat to prevent corrosion. See Detail 958.
9. Remove Cover Plate from Glide Insert to access tensioning nut. Take turns tensioning each Glide Insert in small increments. Make sure that the steel cables cross each other at the corner where the steel cable ends. DO NOT OVER TENSION! You can test the tightness of the shade fabric by hitting the perimeter steel cable with the palm of your hand to see how much it moves. If the shade fabric does not move more than 6" up or down then you have the correct tension. If the shade fabric bounces and has a ripple affect then you may need to apply more tension. Attach Cover Plate to Glide Insert. See Detail 957.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Duramax

69617 DURAMAX 10' x 10' SHADE 1' TO 6'



⬡ = INSTALLATION DETAIL

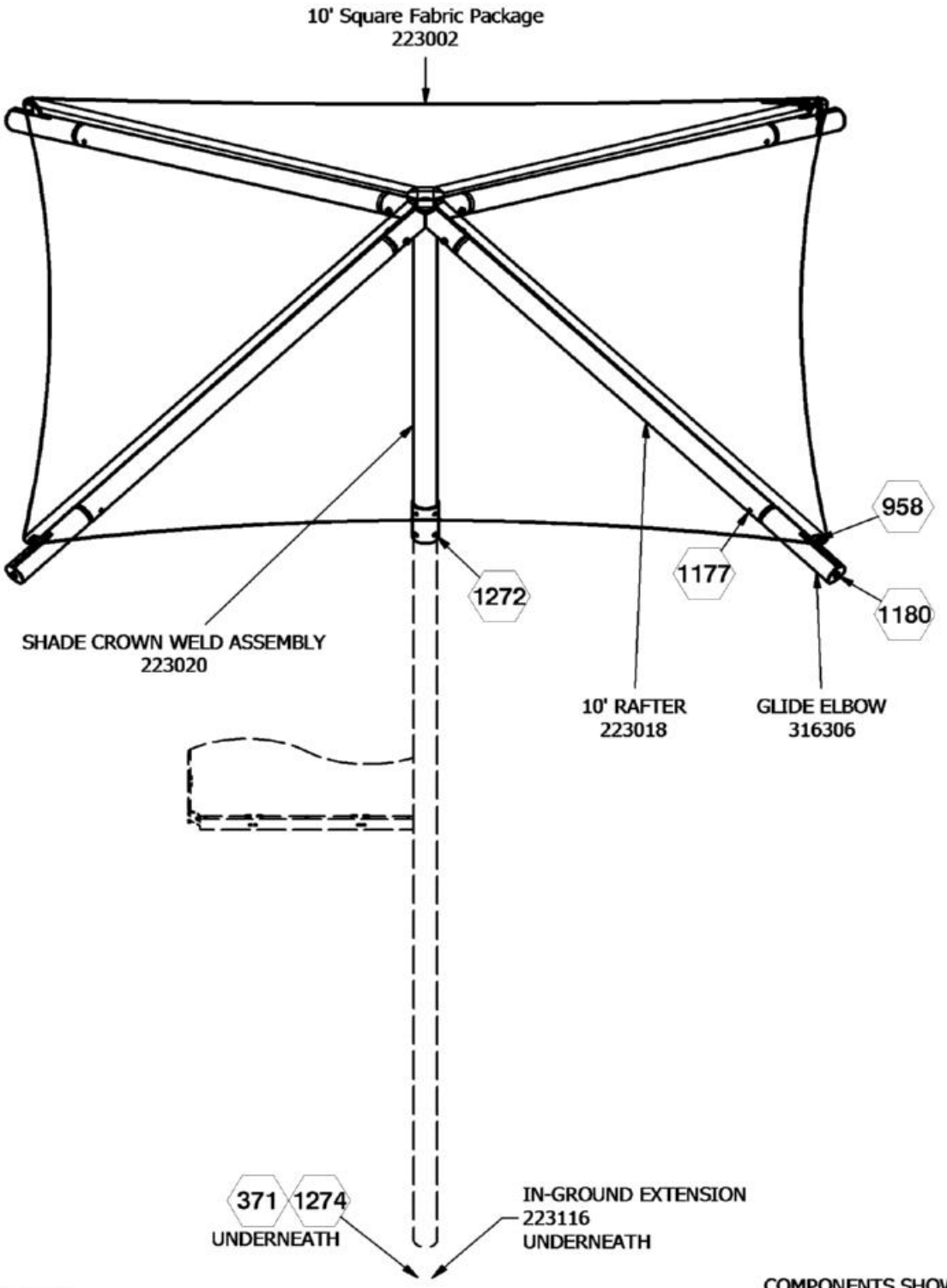
Issued/Revised: 11/2/2023

FINISHED ASSEMBLY
4'-0" SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Duramax

69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'



= INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

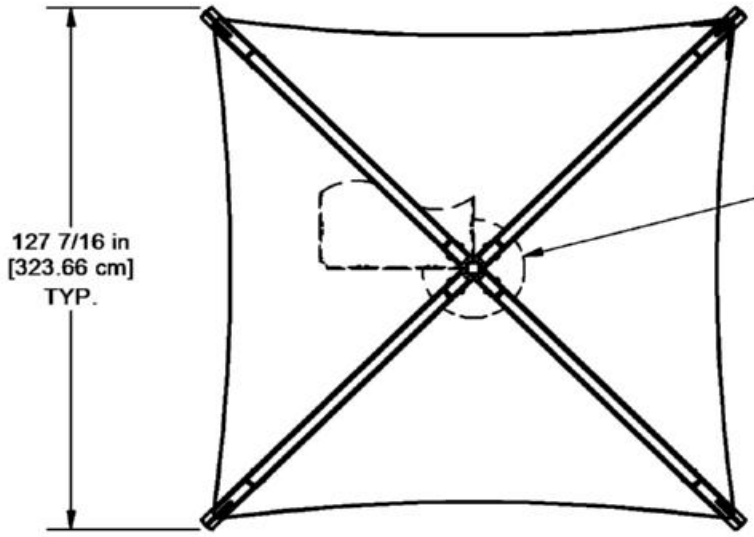
FINISHED ASSEMBLY

6'-8" SHOWN

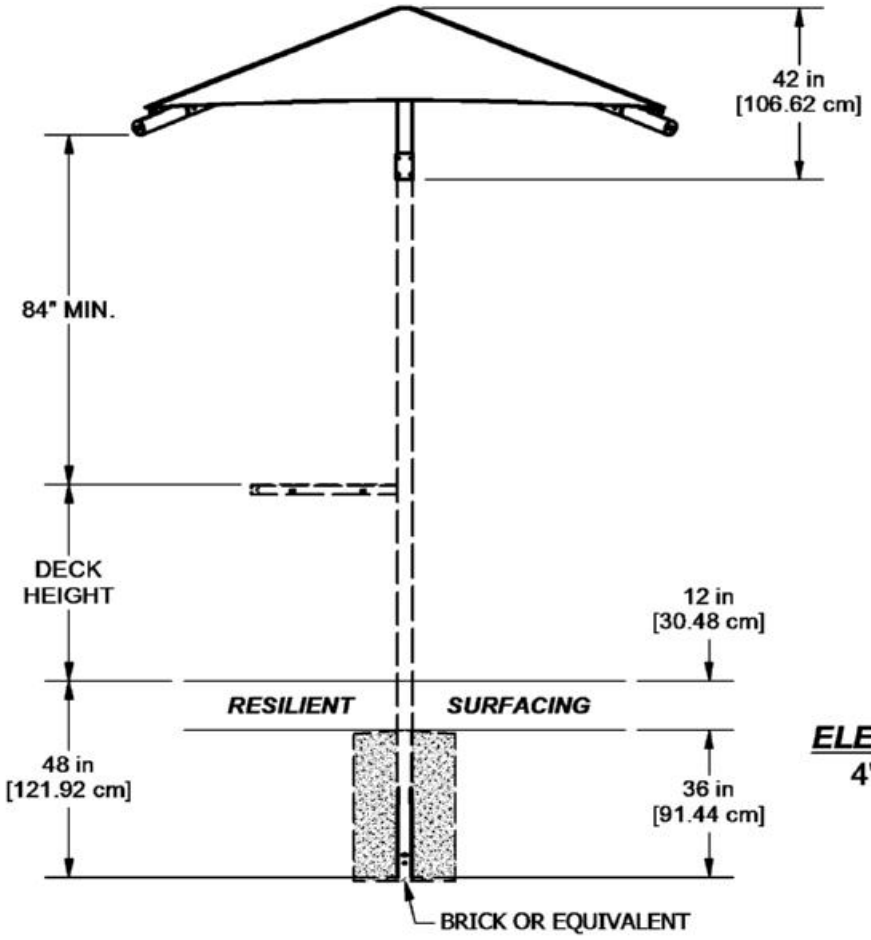
Issued/Revised: 11/2/2023

Duramax

69617 DURAMAX 10' x 10' SHADE 1' TO 6'



PLAN VIEW

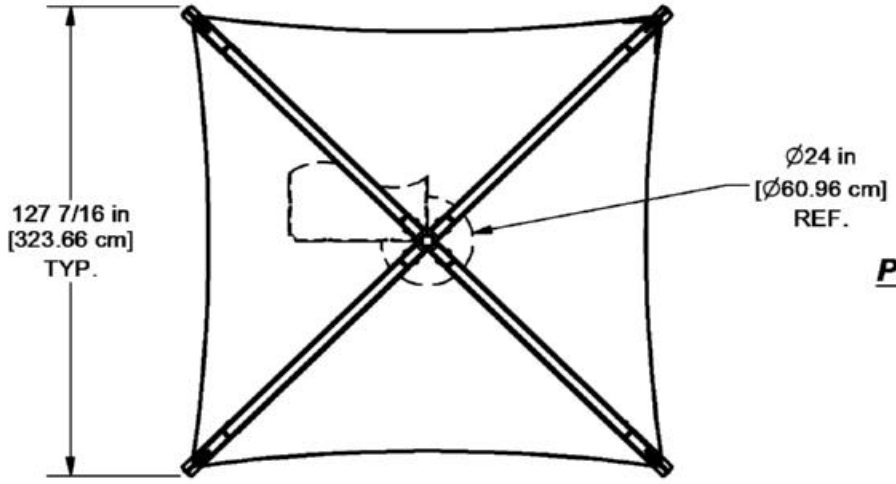


ELEVATION VIEW
4'-0" SHOWN

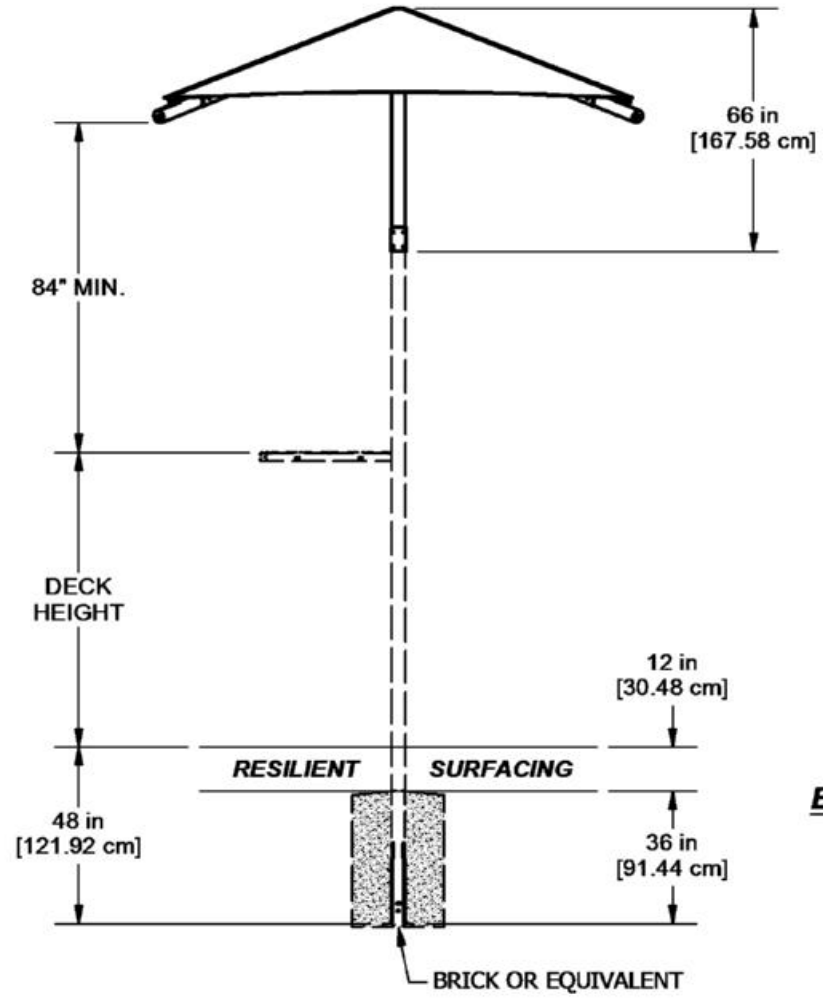
Issued/Revised: 11/2/2023

Duramax

69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'



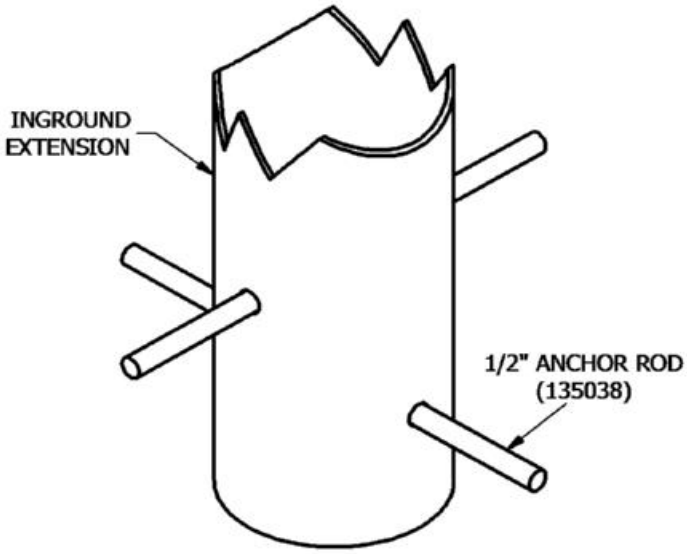
PLAN VIEW



ELEVATION VIEW
6'-8" SHOWN

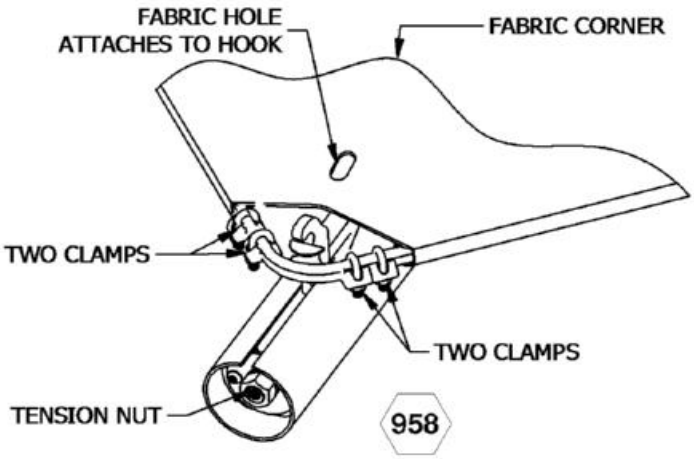
Issued/Revised: **11/2/2023**

69617 DURAMAX 10' x 10' SHADE 1' TO 6'
69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'



371

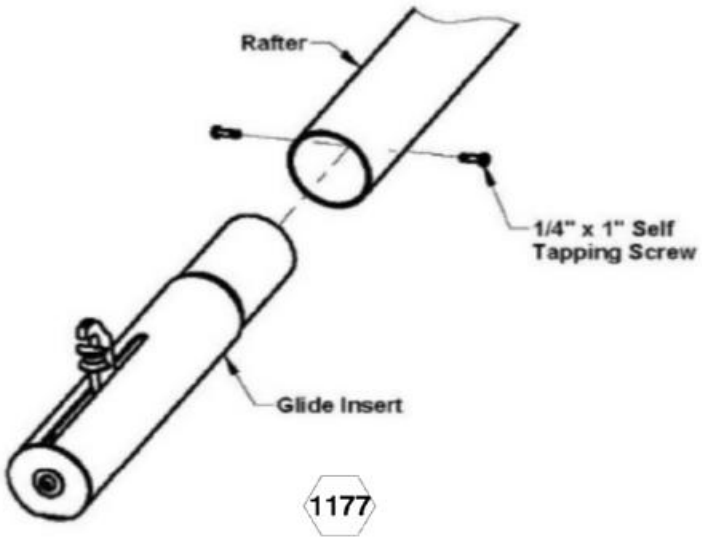
SMALLER GLIDE INSERTS WILL NOT HAVE A CABLE GUIDE ON THE GLIDE HOOK. THE CABLE FOLLOWED BY THE FABRIC HOLE ARE BOTH PLACED OVER THE HOOK.



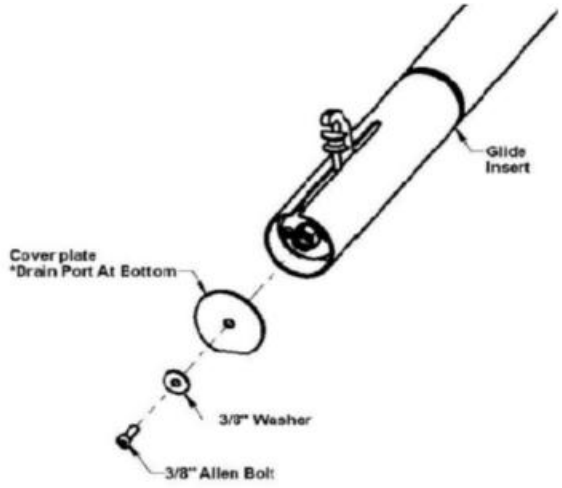
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NOTE: ON THREE OF THE FOUR CORNERS THE CABLE WILL LOOP AROUND THE HOOK OR CABLE GUIDE.

ON THE FOURTH CORNER THE CABLE ENDS WILL OVERLAP AROUND THE HOOK OR CABLE GUIDE AND BE SECURED WITH TWO CABLE CLAMPS ON EITHER SIDE. THE FABRIC HOLE IS THEN PULLED OVER HOOK. LOOSE CABLE END ARE TO BE TUCKED BACK INTO FABRIC HEMS.

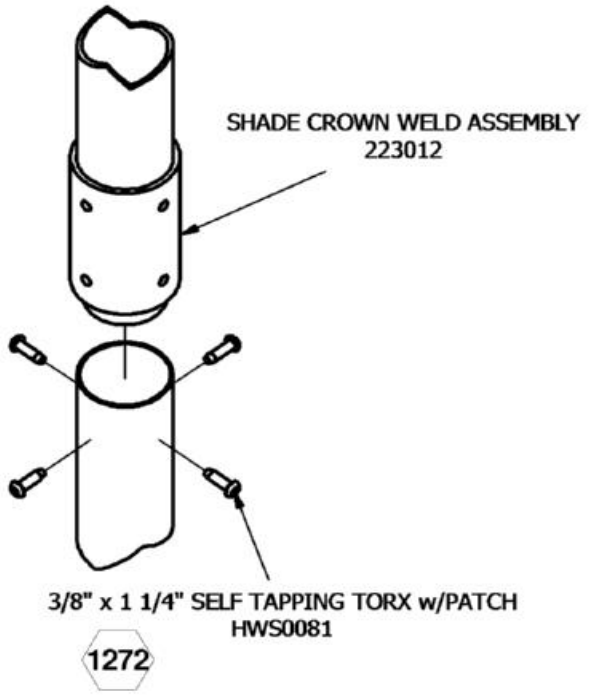


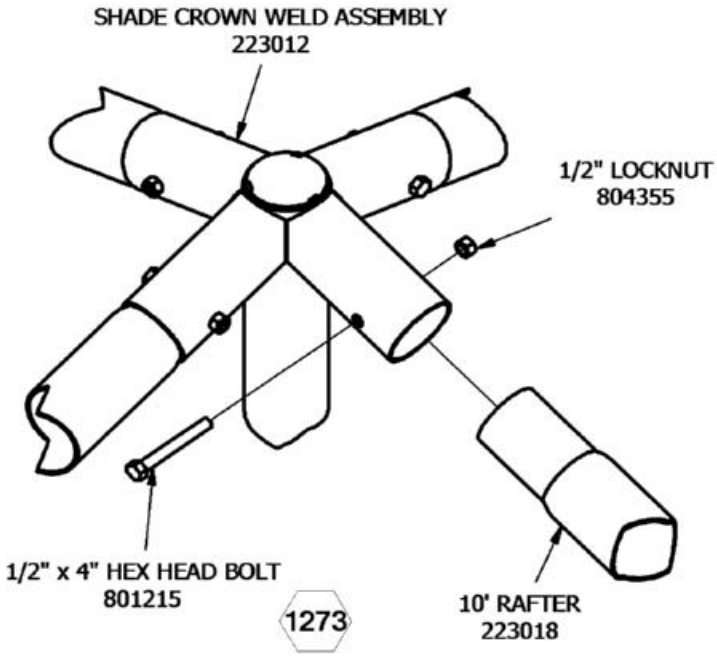
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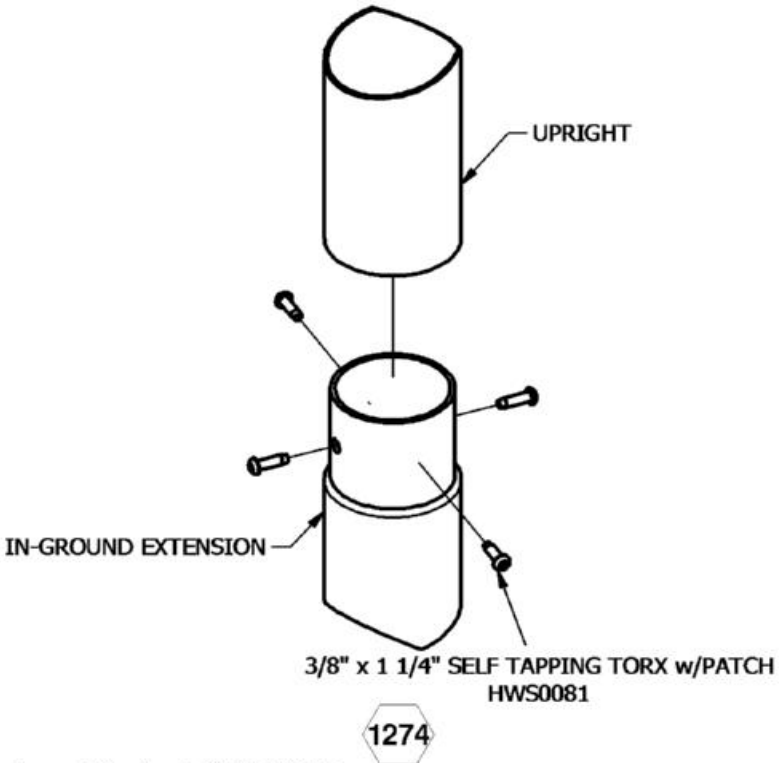


1180

69617 DURAMAX 10' x 10' SHADE 1' TO 6'
69618 DURAMAX 10' x 10' SHADE 6'-8" TO 8'







Issued/Revised: 11/2/2023

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Introduction

Congratulations on your selection of a BigToys play structure. You have chosen a high quality product that, when properly installed and maintained, will withstand many years of hard use. Unlike traditional playground equipment, BigToys is a modular system, designed by our experienced professionals to create a safe, yet challenging play structure. This instruction packet has been developed to help you install your new play structure according to the manufacturer's specifications as required for compliance to all internationally recognized safety standards.

Before You Begin

Please read this entire *Installation Prolog* as well as the *General Information and Site Preparation* document and follow all instructions carefully.

Briefly reviewing the instructions for each play event in advance will help to ensure proper installation and save you valuable time. If you find any instructions missing, please request a free replacement before starting work.
If questions should arise before or during the installation process, please call your BigToys representative. You may also contact BigToys directly at 360/528-8697.

Recommended Tools

(Not all tools on this list will be required for every installation, but most will come in handy.)

2' and 4' Bubble Level	Claw Hammer
Complete Hex Key Set	Dead Blow Hammer
Drill and Bits Ø1/8" to Ø1/2" and Ø11/16" [1]	Socket Set 3/8" – 3/4" Ratchet w/extension
Ø7/8 Spade Wood Bit[1]	Pick Bar
Posthole Digger	Rubber Mallet
Sledge Hammer	Hack Saw
Square Drive Bits #2,#3	8ft. Step Ladder
Open End Wrench set	Tape Measure 25'

Sorting Components

Sorting components into these common groups will help you quickly locate the correct items during installation:

Metal Columns - Sort by length and part number. Take care to remove all staples prior to removal from the protective packaging.
Platforms and Platform Extensions - Sort by size
Threaded Inserts
(See Typical Threaded Insert Installation")
Hole Plugs
(See "Typical Hole Plug Installation.")
End Caps / Column End Fittings
(See "Typical End Cap Installation")
(See "Typical Column End Fitting Installation")
Metal Brackets – Sort by part number and finish color.
Pipes - Sort by part number and finish color.
Connector Packages – Sort by part number.

Note: Connector Packages must be used only with the activity or assembly designated. Spare parts packages are provided to replace missing or damaged parts from other packs as needed.

IMPORTANT!
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.

Once Assembly Is Completed, Remove Any Unused Parts from the Play Environment and Dispose/Save Them In A Secure Location.

Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flat washers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.

[1] Only required when Wobbly Walk or Suspension Bridge is to be installed.

Assembly of the Basic Structure

Generally, the best procedure is to locate and dig the footing holes first and plumb and level the structure as assembly progresses. The footing depth is determined by the depth of the resilient surface.

Be sure to lay out the footing locations carefully. Site dimensions can be checked by arranging the full-sized components in their respective positions.

Note: If your structure includes a PlayShell Fort, we strongly recommend that assembly of the play structure begin with this play event. This ensures that platform(s) attached to the fort will be at the correct height. The top surface of the first layer of PlayShells must be level and set 5¼ inches above the resilient surface.

BigToys systems are flexible and can be corrected or adjusted at any stage of installation, however much time and effort can be saved if care is taken to plumb and level the main structure during assembly.

IMPORTANT!
Do not pour concrete until assembly is complete and the entire structure is plumb and level.

The installation of some play structures may take more than one day. It is recommended that all tools and materials be secured prior to leaving the site unattended. Temporary fencing should be used to prevent children from playing on the unfinished play structure.

IMPORTANT!
As a general assembly rule, do not fully tighten all hardware or install Do-Nut Caps until the installation process is fully completed.

Final Procedures

1. Thoroughly inspect the structure to ensure that installation does not deviate from BigToys installation instructions.
2. Install all entanglement prevention hardware as described in "Protection against Entanglement" and in the individual play activity instructions.
3. Check all joints and connections to ensure they are tight and secure. Install protective covers according to instructions.

IMPORTANT!
All bolts with more than two threads exposed must be trimmed back to less than two threads and peened over to eliminate sharp edges.

4. Install all labels in prominent, visible locations per the instructions included in each package. BigToys suggests that you also review labels and other safety information with the owner/operator.
5. Remove all waste or injurious materials from the site. Do not burn treated wood or plastics.
6. Resilient surfacing must be installed as recommended by either the safety standard for your locale or your BigToys play consultant.
7. Prior to opening the playground, the use zone should be free of all obstacles (other than the play equipment itself) that children could run into or fall on top of and thus be injured.
8. Prior to opening the playground a thorough safety inspection should be performed by a qualified person. The play structure must be inspected for compliance with all clearance zones, use zones, no-encroachment zones, and resilient surfacing requirements.

IMPORTANT!
The playground must be fully installed and inspected with the protective surfacing in place before users can safely play on the equipment. Failure to comply with this recommendation can lead to serious injuries or death of the user.

Follow Up

Playground maintenance and inspections are a continuous and integral part of providing a safe play environment. Inspection and maintenance costs should be incorporated into an operating budget to ensure the continued safety of your play structure[1].

BigToys strongly recommends that all owner/operators obtain and familiarize themselves with all relevant safety standards for their locale. This will help to quickly identify potential safety problems or hazards that can occur through the life of the product. Addresses and phone numbers for obtaining these safety standards are listed at the end of this document.

Repairs

Occasionally, parts may require replacement due to breakage or wear. These parts should be replaced as soon as possible. Be sure to use only official BigToys replacement parts, assemblies, hardware, and special tools. Only genuine BigToys replacement parts, assemblies, and hardware used to repair playstructures or play events can be guaranteed to meet our safety or wear standards.

If repairs cannot be made immediately, the owner/operator should prevent access to that portion of the playstructure or the entire structure until repairs are completed.

All repairs should be in accordance with this manual and the installation instructions where necessary or recommended. Replacement parts and copies of installation instructions can be obtained either through your BigToys sales consultant or by contacting BigToys Inc. directly at the phone number or the address shown in the introduction of this manual.

[1] *Annual Cost Considerations* (Appendix E) from the Canadian Standard (CAN/CSA Z614-98), provides suggested outline of what should be considered in establishing a budget for your playground.

We have provided a touch-up pen for your metal uprights in the assembly materials package. Should you need a touch-up pen for any other powder coated component, please either call 360-528-8697 or email info@bigtoys.com and we will send you one at no charge

IMPORTANT!

Be sure to use only official BigToys replacement parts, assemblies, hardware, and special tools. Only genuine BigToys replacement parts, assemblies, and hardware used to repair playstructures or play events can be guaranteed to meet our safety or wear standards. These parts, assemblies, and hardware can be obtained from you local sales representative or BigToys® at 360/528-8697.

Attention All Contract Installers:

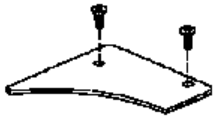
Please be sure to present the enclosed Safety and Maintenance Manual to the owner/operator. This manual contains important safety information, suggested inspection and maintenance schedules, and maintenance procedures. If possible, we suggest that you also review a copy of the manual with those persons directly involved in the maintenance of the play structure.

Protection against Entanglement

BigToys has identified two types of possible entanglement areas found at and within 24" of the entrances to Slides and Slidepoles on BigToys equipment and has created a solution for each. (See examples below)

You should refer to your structure design for location of these entanglement protectors. Each type will be shown on an overhead view as part of the Installation Detail drawing included with your Installation Instruction Packet. Each type will be designated with a letter and arrow as shown in the examples below.

- **Type P1**: V-shaped areas found where our platforms meet the vertical columns.



Corner Plate with Screws (P1)

- **Type P2**: Gaps found at the top of the Enclosure where it meets the column.

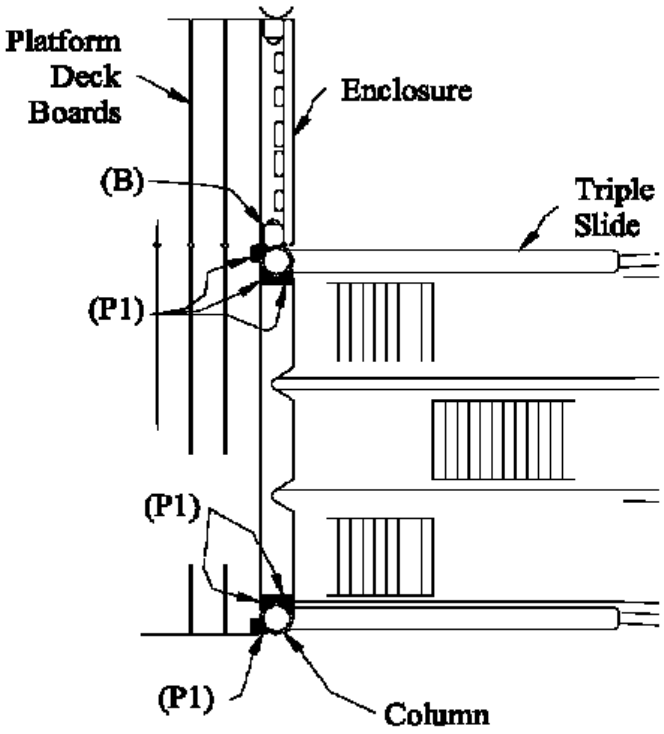


Enclosure Filler Plate (P2)

- **Type B**: Gaps found at the bottom of the Enclosure Support and the top of Accessible Stairs.



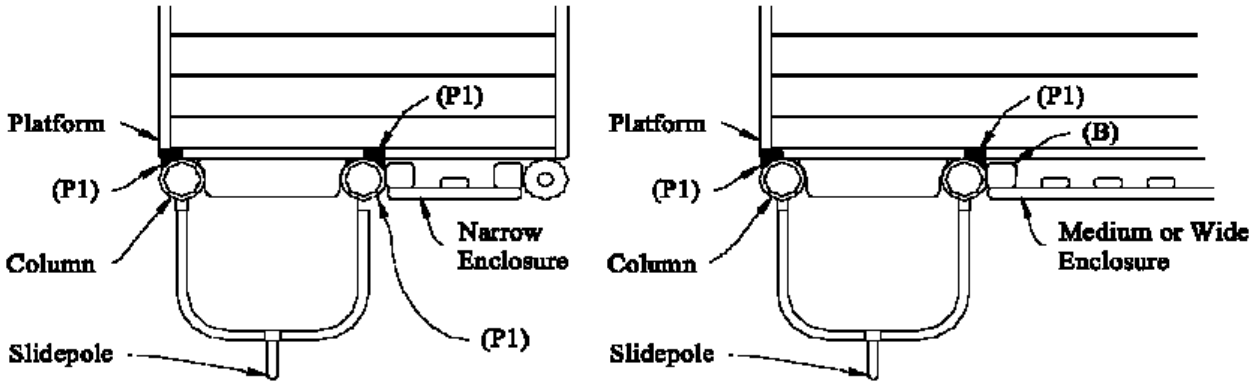
Corner Protector with Screws (B)



Examples (Triple Slide)

Note: It is important to assemble each structure carefully and according to the installation instruction in order to prevent additional entanglement around Slides and Slidepoles. Make sure all connections are tight and all pieces fit together properly.

Examples (Slidepoles)

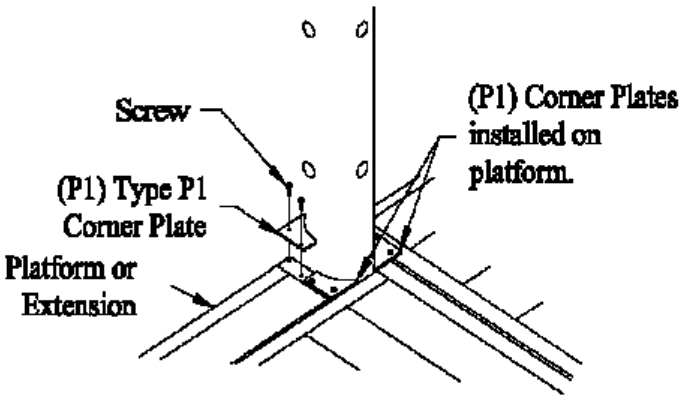


Installing Type (P1) Corner Plates around a Platform

1. Installing Type P1 Corner Plates, position tight against the column and align flat sides of plate with sides of platform and attach to platform screw as shown.
2. Position Corner Plates snug against the column and align flat sides of plate with sides of platform and attach to platform as shown.

Hint: To secure screws initially, lightly tap screws into platform with a small hammer as you would a nail, then use a screw driver to tighten.

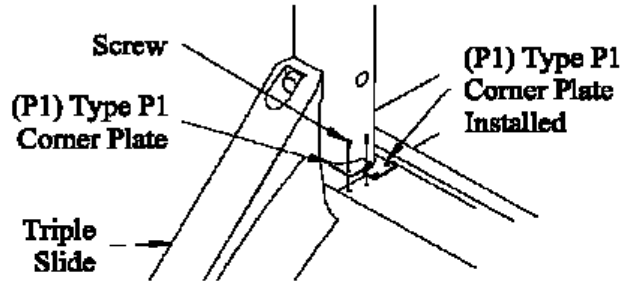
Note: Make sure plate does not shift away from column when tightening screws.



Installing Type (P1) Corner Plates around a Triple Slide

1. Install Triple Slide per instructions and tighten all fasteners.

2. Position Corner Plates snug against the column and align flat sides of plate with sides of platform and attach to platform as shown.



Installing Type (B) Corner Protector on Enclosure Support

1. **Position Type (B) Entanglement Protector** onto corner of Enclosure Support as shown.

Note: part must fit flat against top of platform before and after screws are installed.

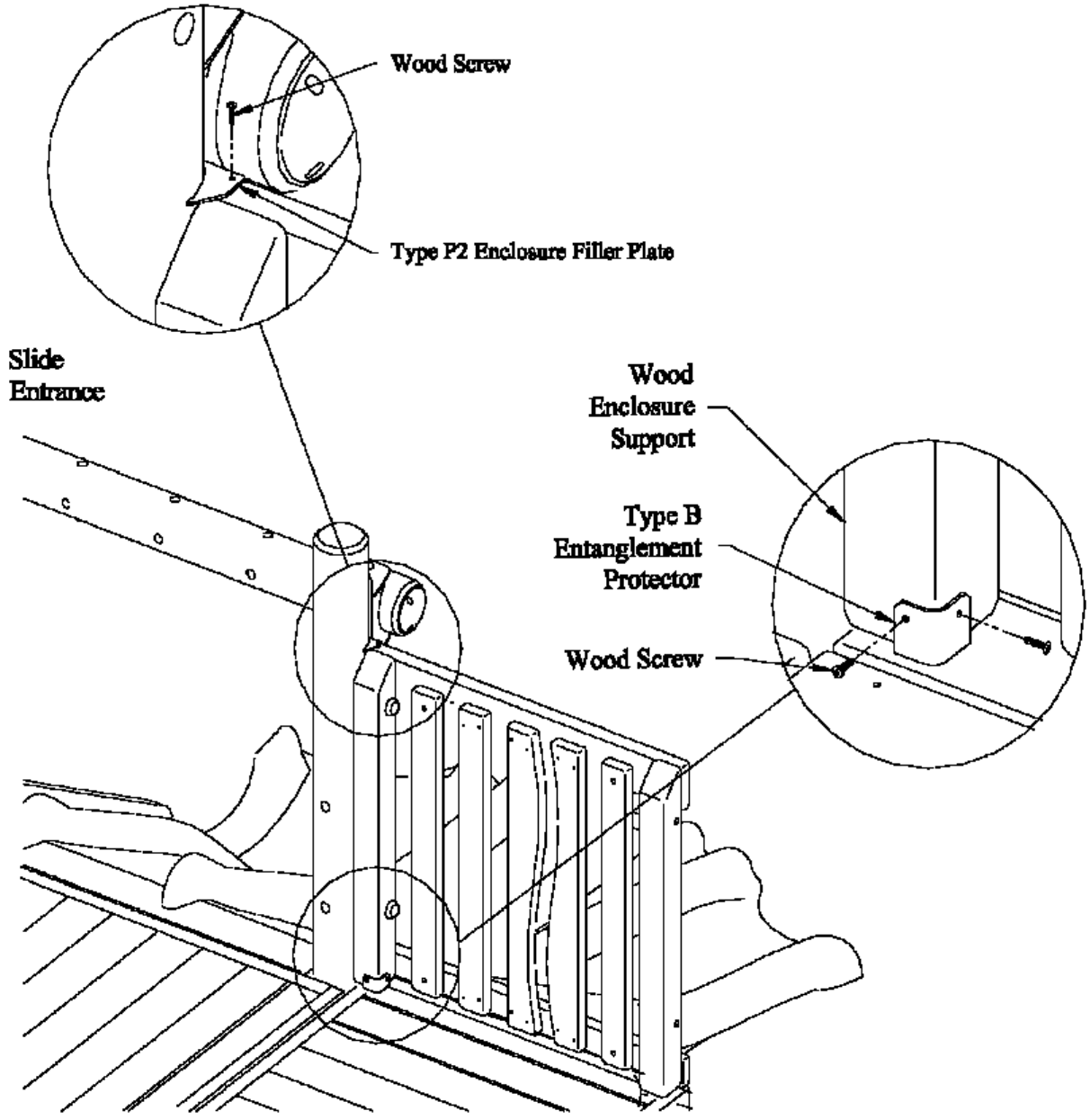
2. **Install Screws.**

Installing Type (P2) Entanglement Plates on Enclosures

1. **Position Type (P2) Enclosure Filler Plate** onto corner of Enclosure Support as shown.

Note: part must fit flat against top of platform before and after screws are installed.

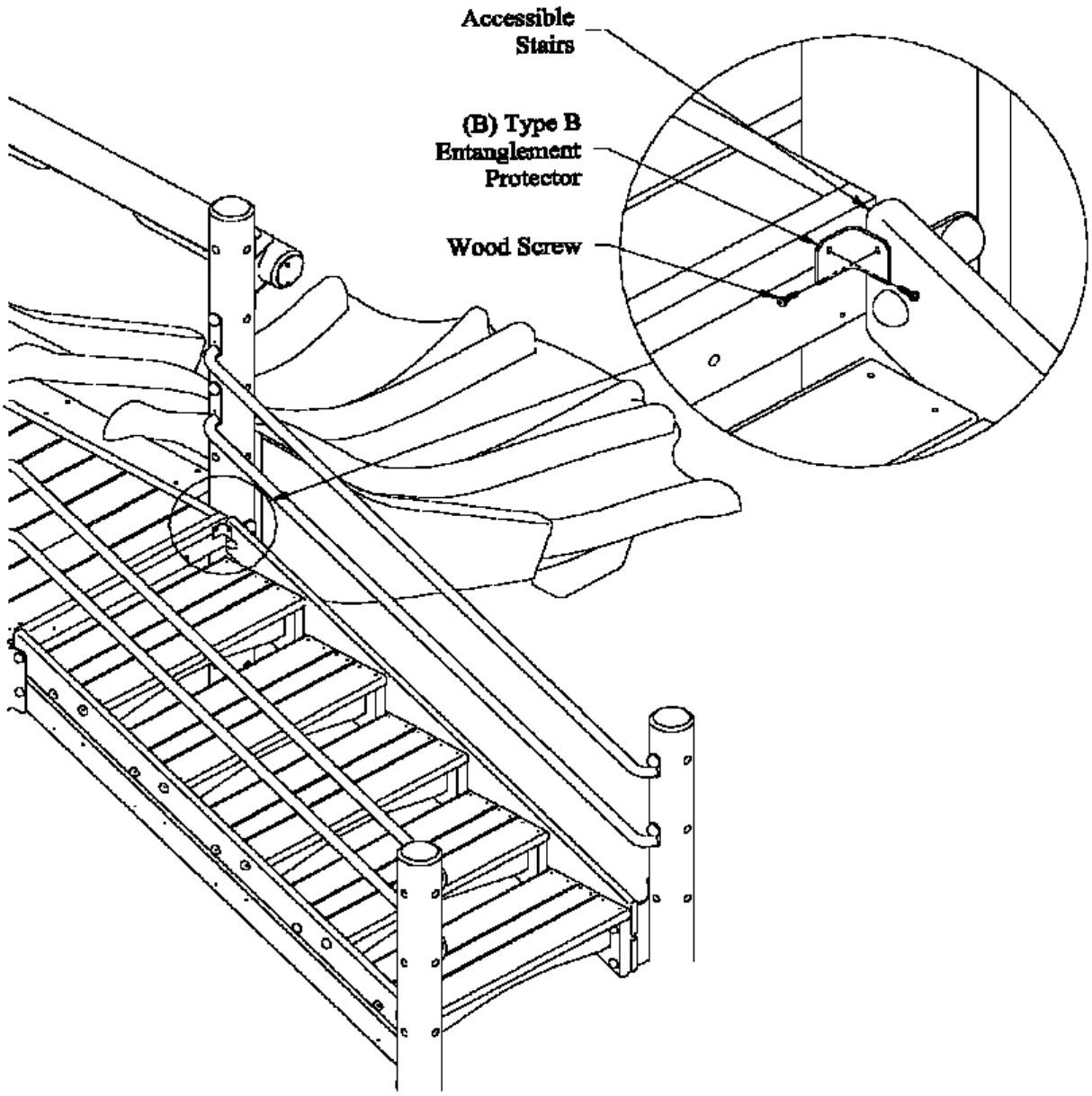
2. **Install Screws.**



Installing Type B Entanglement Plates on Accessible Stairs

1. **Position (B) Type B Corner Protector** into the upper corner of Stair adjacent to the entrance of a slide or Slidepole. *Note: Top of Corner Protector must be installed below the radius of boards.*

2. **Install wood screws.**



Installing Entanglement Plates on Adjacent Platforms and Enclosures

1. **Position Type P1 Corner Plates,** Align flat sides of plate with sides of platform and attach against the column

2. **Install wood screws.**

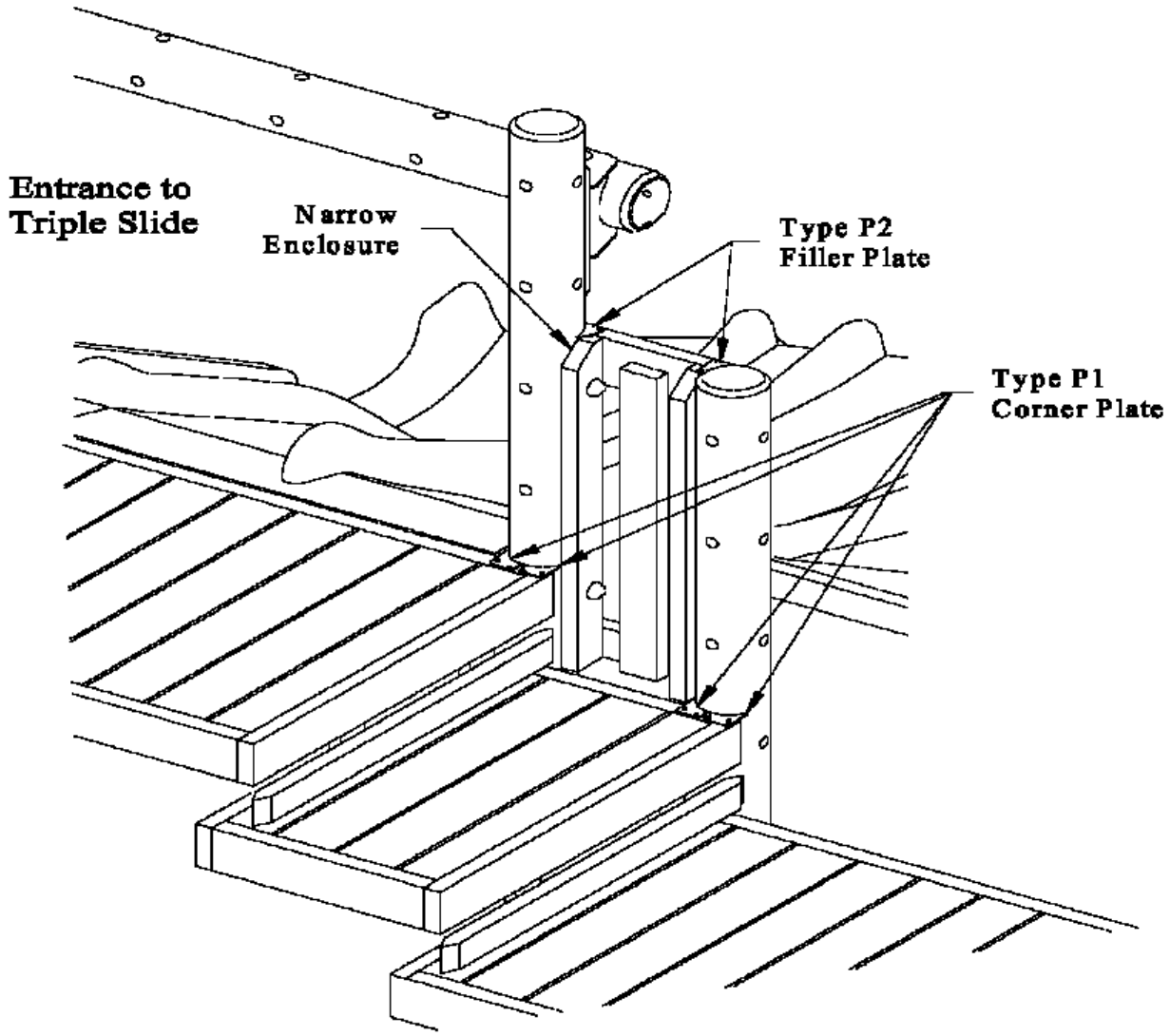
Hint: To secure screws initially, lightly tap screws into platform with a small hammer as you would a nail, then use a screw driver to tighten.

Note: Make sure plate does not shift away from column when tightening screws.

1. **Position Type P2 Enclosure Filler Plate** onto desired top corner of Enclosure Support.

2. **Install wood screws.**

Note: Part must fit flat against enclosure and tight against column before and after screws are installed.



Typical Concrete Footings

Footing depth depends on:

- The thickness of the resilient surface you have chosen for your BigToys play structure.
- The various types of footing are:
  - Standard-Column Footing
  - Pipe Footing
  - Ground Level Activity Footing
  - Deep-Column Footing

The distance from the top of the resilient surface to the bottom of the footing is different for each footing type:

Footing Type	BigToys 5-12	EarlyWorks 2-5
Standard Footing	28"	21"
Deep Column Footing	40"	33"
Pipe Footing	28"	21"
Ground Level Activity Footing	33"	26"

Note: Refer also to the information found in "Frost Heave and Footings" on page 12.

Use this simple formula to find the footing depths for your BigToys play structure:

Total Depth of footing minus Resilient Surface Thickness equals Footing Depth.

TD – RST = FD

Example: to find the footing depth for a BigToys 5-12 Standard Footing with 12 inches of resilient surface, the formula would look like this:

28" – 12" = 16

Your footing depth is 16".

Typical Concrete Requirement

1. All Footings should bear on firm, undisturbed soil capable of permanently supporting 2500 pounds per square foot.

2. Prepackaged concrete should be mixed per manufacturer's instructions.

3. Ready-mix concrete should contain five sacks of cement per cubic yard minimum.

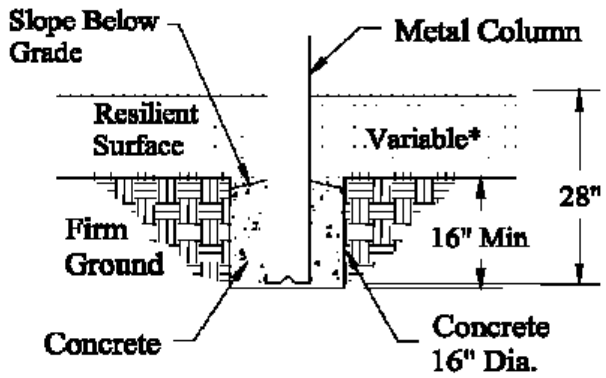
4. All concrete should have a minimum 2500 pounds rating and conform to U.B.C., state, and local codes.

5. When concrete has been poured in the holes, finish the top surface of the footing so that it is smooth and sloping away from the column or pipe.

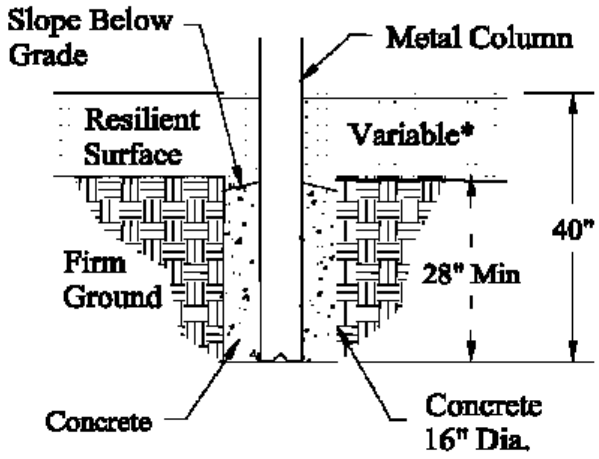
Depth of resilient surface will vary depending on the type surfacing used. (See enclosed USCPSC report.)

Typical Concrete Footings
BigToys 5-12

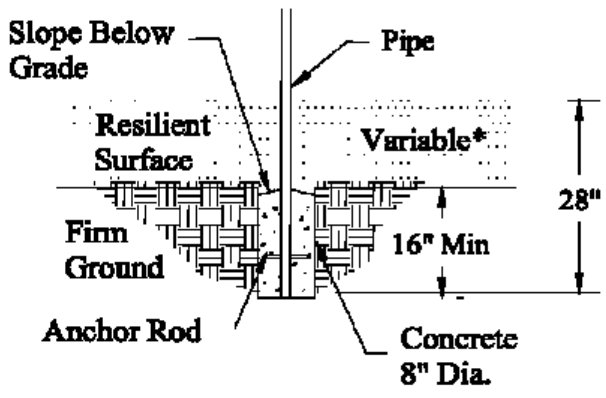
Standard Footing
(BigToys 5-12)
(1.6 to 2.6 cubic feet of concrete)**



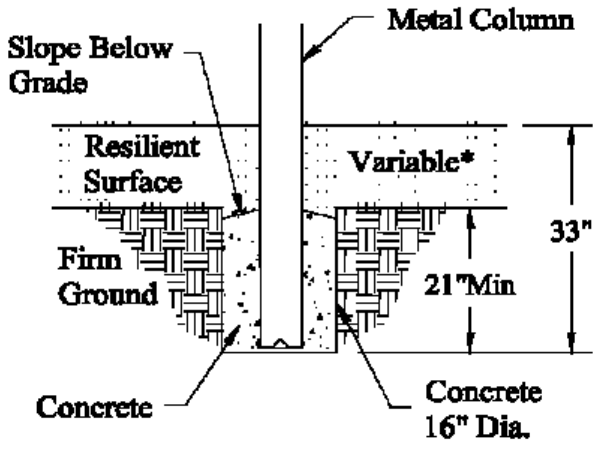
Deep Footing
(BigToys 5-12)
(2.8 to 3.8 cubic feet of concrete)**



Pipe Footing
(BigToys 5-12)
(0.5 to 0.75 cubic feet of concrete)**



Ground Level Activity Footing
(BigToys 5-12)
(2.1 to 3.1 cubic feet of concrete)**

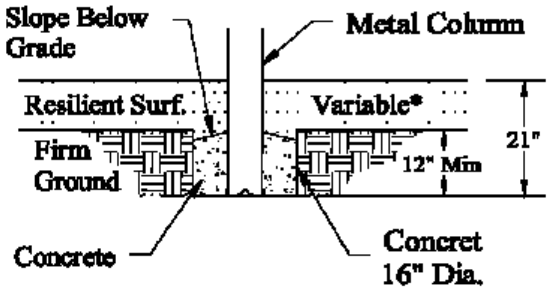


**Depth of resilient surface will vary depending on the type of surfacing used. (See enclosed USCPSC report.)*

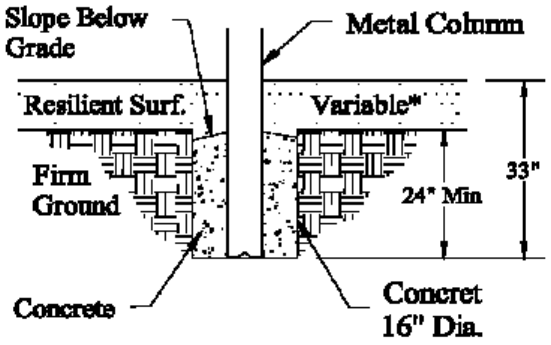
*** The concrete volumes listed are approximations based on the maximum and minimum resilient surface thickness' available. Varying soil conditions may also affect volumes.*

Typical Concrete Footings
EarlyWorks 2-5

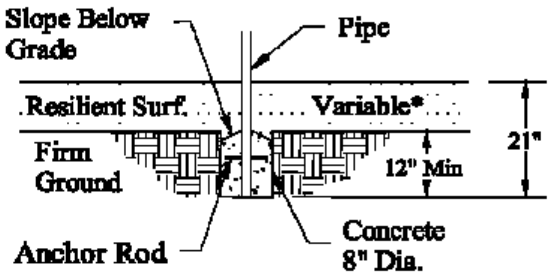
Standard Footing
(EarlyWorks 2-5 yrs)
(1.2 to 1.9 cubic feet of concrete)**



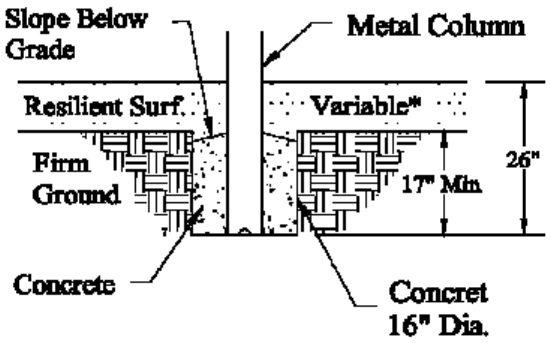
Deep Footing
(EarlyWorks 2-5 yrs)
(2.4 to 3.1 cubic feet of concrete)**



Pipe
(EarlyWorks 2-5 yrs)
(0.4 to 0.6 cubic feet of concrete)**



Ground Level Activity Footing
(EarlyWorks 2-5 yrs)
(1.7 to 2.4 cubic feet of concrete)**



**Depth of resilient surface will vary depending on the type of surfacing used. (See enclosed USCPSC*

*** The concrete volumes listed are approximations based on the maximum and minimum resilient surface thickness' available. Varying soil conditions may also affect volumes.*

Frost Heave and Footings

Frost heave footings should be used only when local, state, or provincial codes or ordinances require that footings be installed below the combined depth of footing and the resilient surface call-out indicated by the installation instruction details. Columns and footing pipes will need to be suspended in the footing holes to achieve the proper heights above ground.

Frost heave footing depth depends on:

- The thickness of the resilient surface you have chosen for your BigToys play structure.
- Nominal depth of the footing (BigToys 5-12 standard footing- 16 inches or deep footing - 28 inches).
- Frost line depth.

Use the following formula to find the frost heave footing depth of your BigToys play structure.

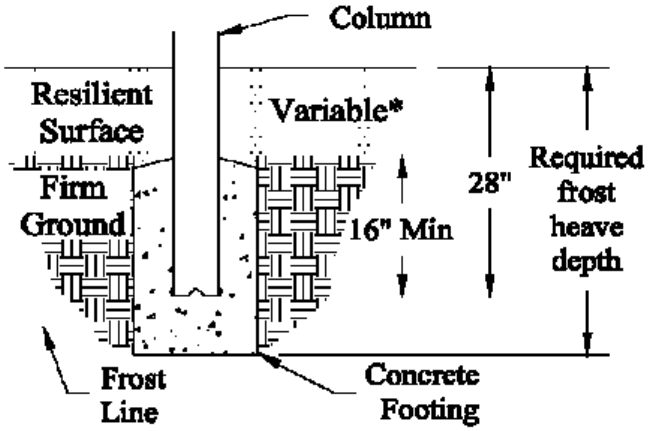
Total Frost Heave Depth of footing minus Resilient Surface Thickness equals Footing Depth.

TD – RST = FD

Example: To find the footing depth for BigToys 5-12 Standard-Column with 12 inches resilient surface and a 36-inch frost line, the formula would look like this:
36" – 12" = 24"

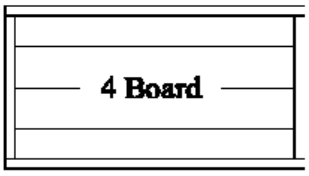
Note: this same process can be used for all non-columns footing as well.

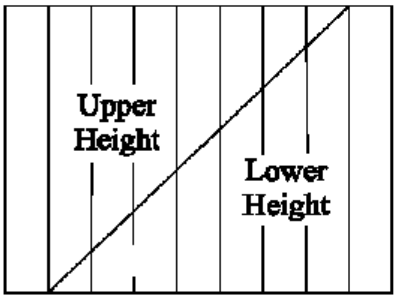
Note: Dimensions in this example are similar to those in BigToys 5-12 Standard Footing, but footing has been extended below frost line.



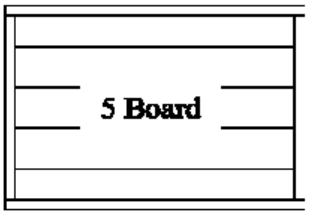
Example Frost Heave Footing

Platform Configurations

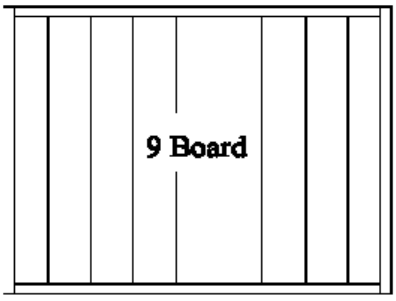


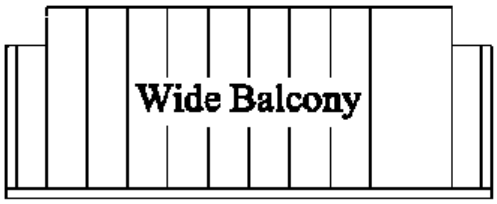


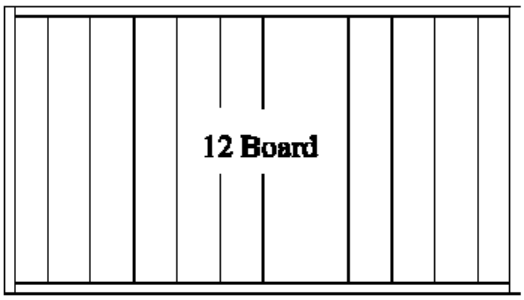
Split Platform











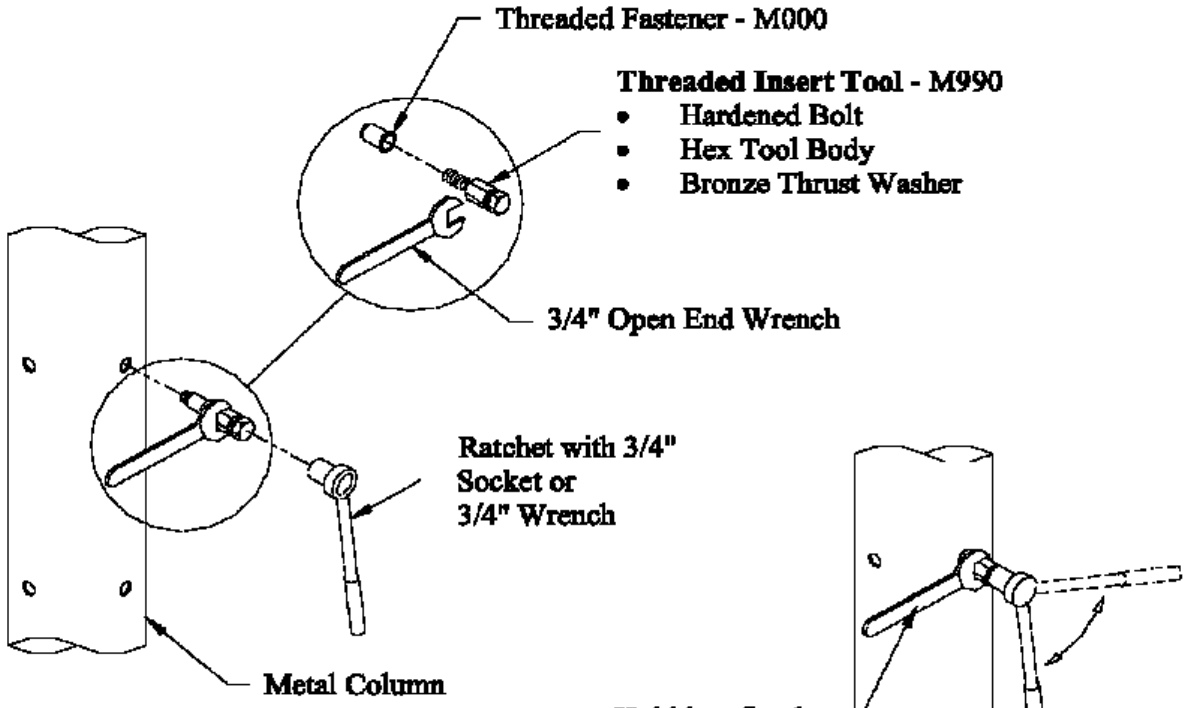
Typical Threaded Insert Installation

1. Lubricate the provided tool on the exposed thread and the head of the captive bolt.
2. Thread the captive bolt into the Threaded Insert as shown.
3. Insert the Threaded Insert into the hole on the column as specified in the installation instruction and hold the wrench in place.
4. While holding the wrench still, use a ratchet or 3/4" wrench to tighten the captive bolt to within the torque range of 20-28 ft-lb.

HELPING HINT!
Form a tight "V" with wrenches to make the process easier.

HELPING HINT!
Basic Threaded Insert Tools can be found in the E002_ Assembly Materials Package.

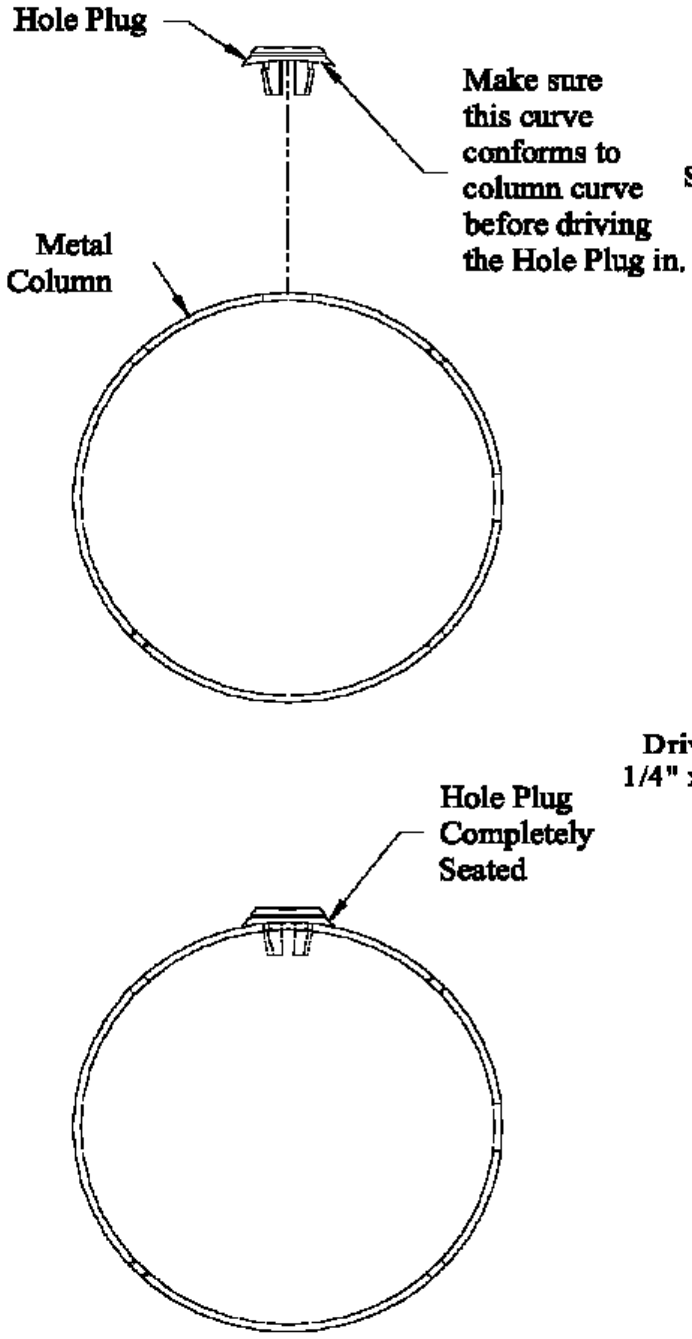
IMPORTANT!
Note: If the Threaded Insert is damaged or fails, it can be easily removed by drilling through the head of the Threaded Insert using an 11/16" drill bit.



Typical Hole Plug Installation

1. When playground installation is completed, install the Hole Plug into every open column hole and align as illustrate below.

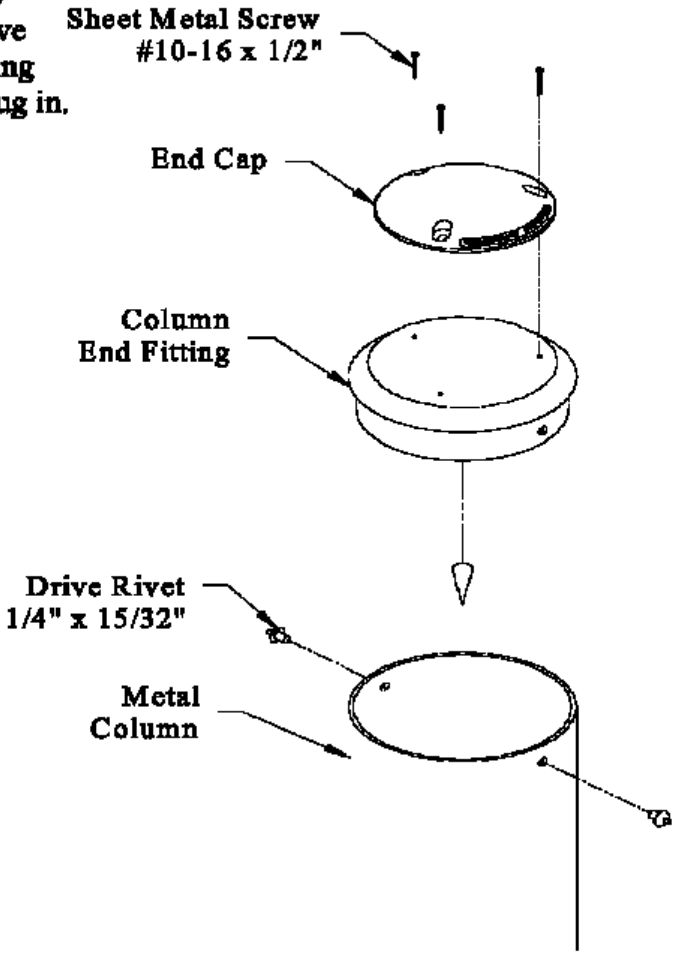
2. Drive the Hole Plug into the column hole using a soft hammer until completely seated.



Typical End Cap Installation

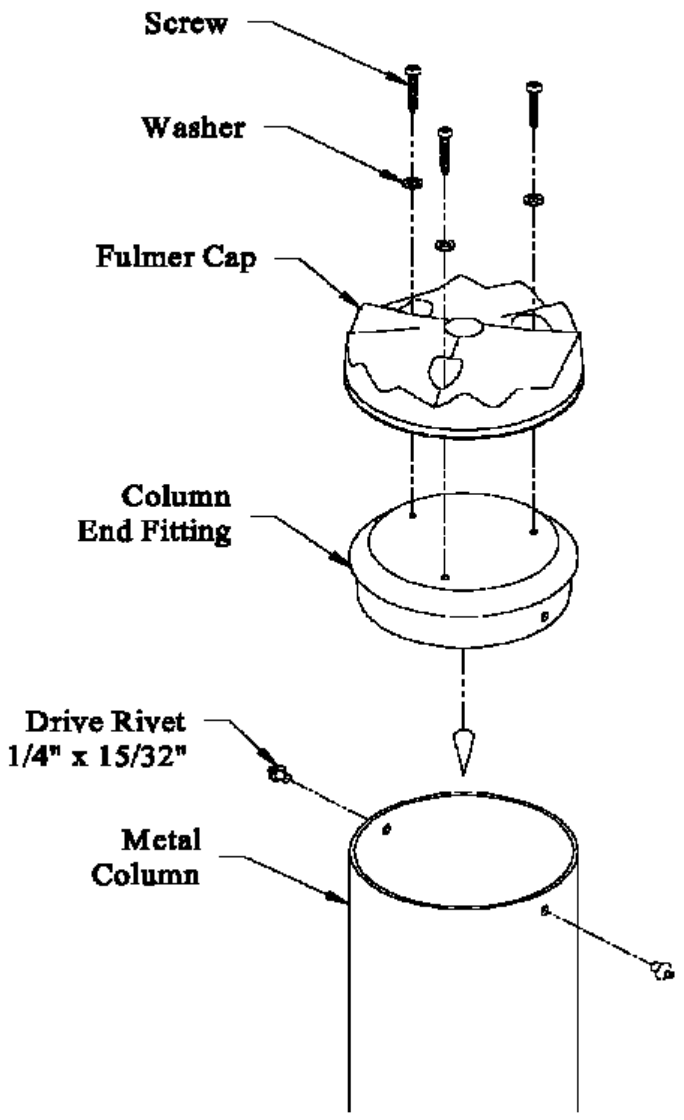
1. Insert Column End Fitting into the Metal Column and securely attach in place by using Drive Rivet ¼" x 15/32" as shown.

2. Attach End Cap to the Column End Fitting using Sheet Metal Screw #10-16 x 1/2" as shown.



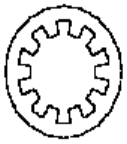
Typical Fulmer Cap Installation

1. Insert Column End Fitting into the Metal Column and securely attach in place by using Drive Rivet ¼" x 15/32" as shown.
2. Attach Fulmer Cap to the Column End Fitting using screws and washers as shown.



Typical Do-Nut Installation

1. Align hardware and Do-Nut components as shown in the installation instruction.
   Note: The hardware used on your structure may vary from hardware shown here.

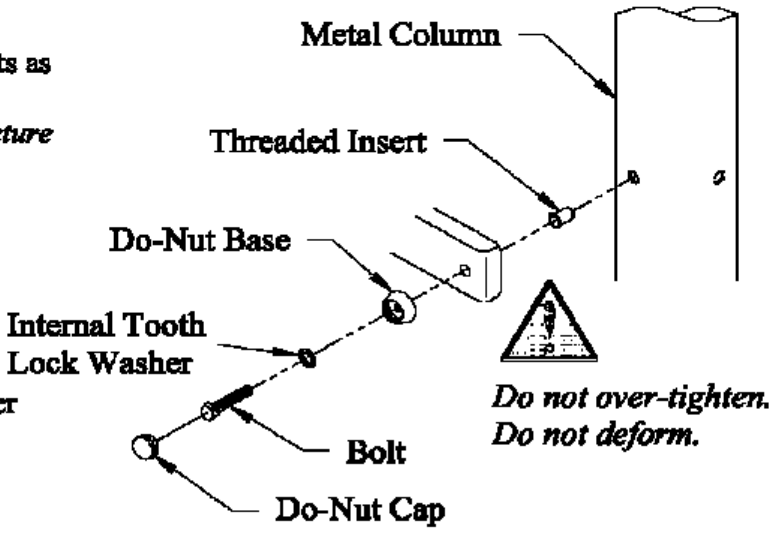


½" Internal Tooth Lock Washer typically should be used with a ½" Do-Nut base.

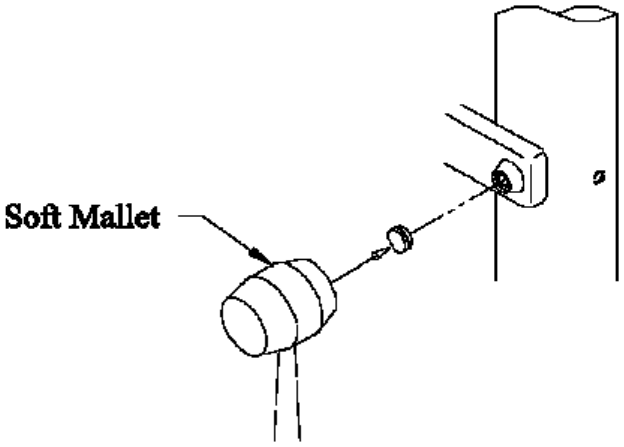


3/8" Internal Tooth Lock Washer typically should be used with a 3/8" Do-Nut base.

2. After final tightening of hardware, use a soft mallet to pound Do-Nut Caps into Do-Nut Bases until flush.



Do not over-tighten.
Do not deform.

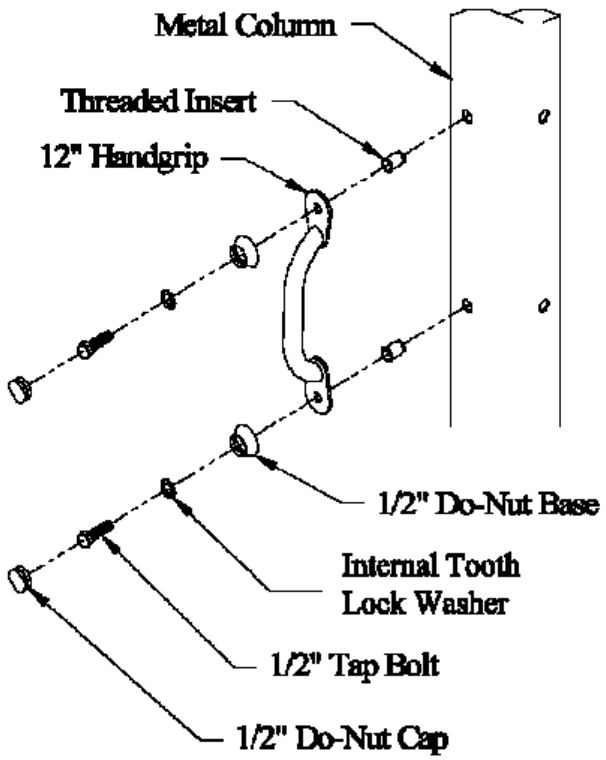


Do not install Do-Nut Cap until all hardware are tightened.

Typical 12” Handgrip Installation

1. Install Threaded Insert into the holes specified in the installation instruction. (See “Typical Threaded Insert Installation.”)

2. Attach the Handgrip to the column with the hardware provided.

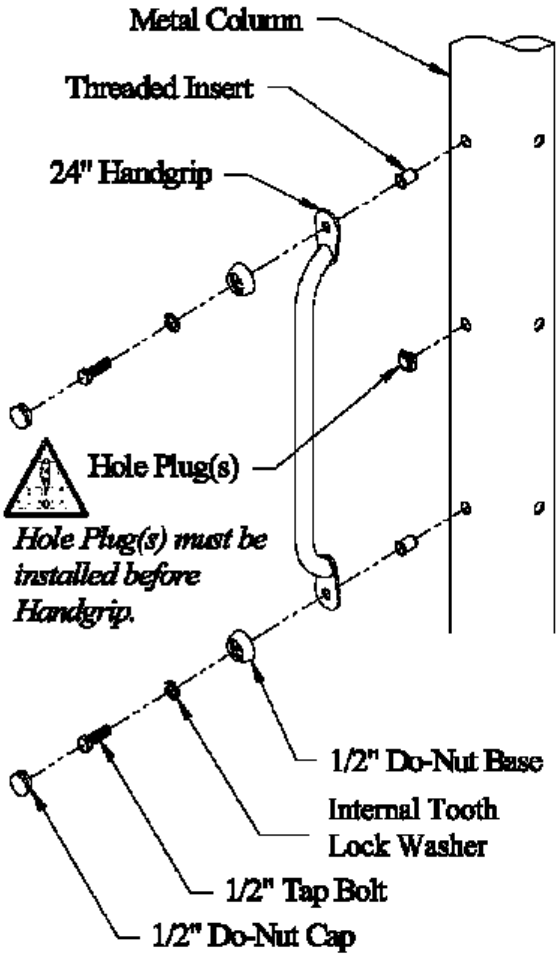


Typical 24” & 36” Handgrip Installation

1. Install Threaded Insert into the holes specified in the installation instruction. (See “Typical Threaded Insert Installation.”)

2. Install Hole Plug (Two Hole Plugs for 36” Handgrip) between the two Threaded Inserts as shown.

3. Attach the Handgrip to the column with the hardware provide.



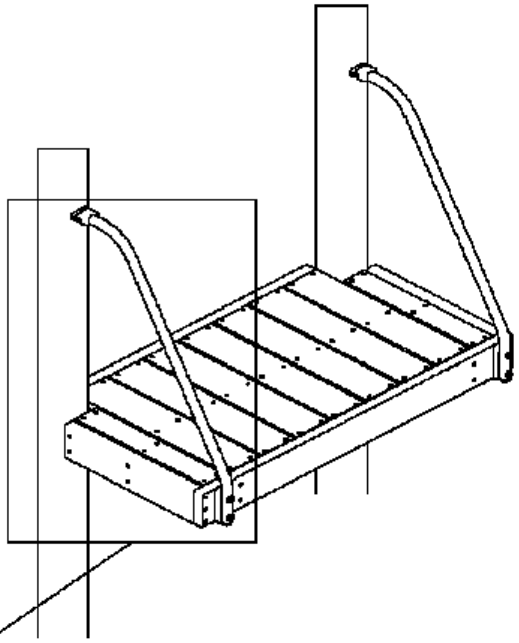
Typical Access Platform Installation

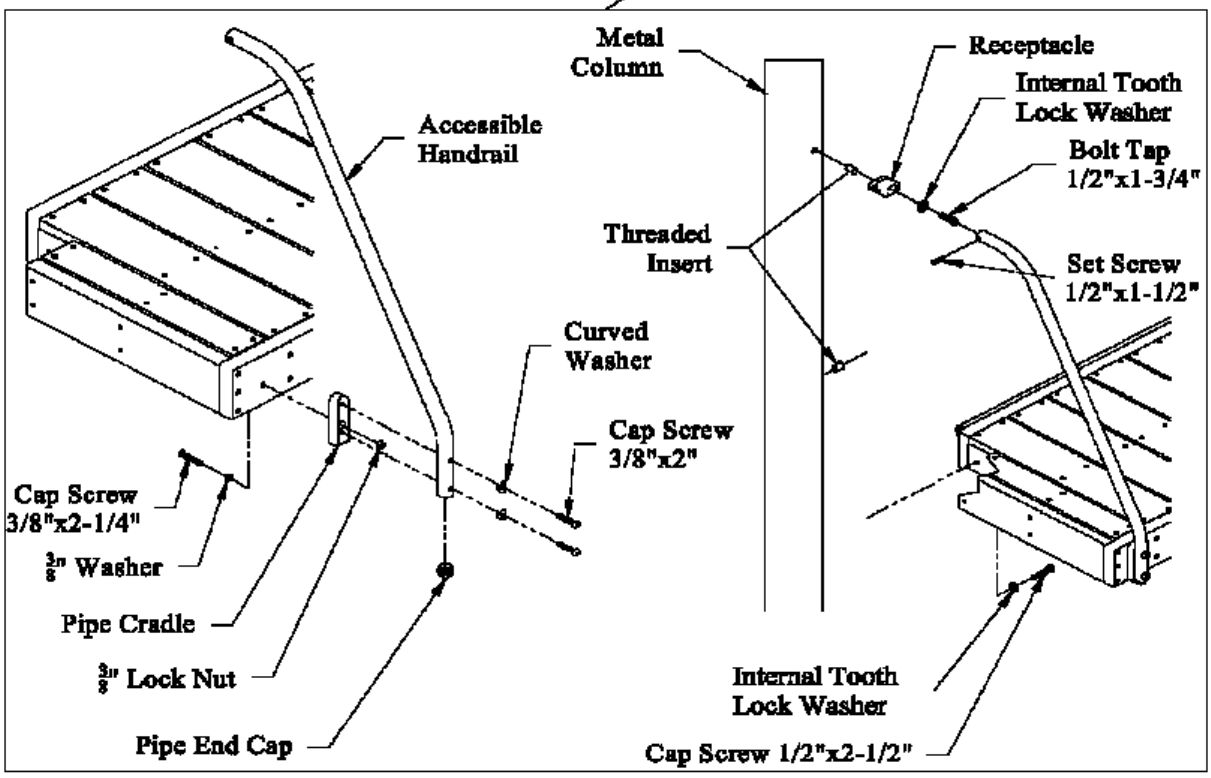
1. Attach Pipe Cradle to Balcony Platform using 3/8" x 2-1/4" Cap Screw, 3/8" Washer, and 3/8" Lock Nut.

2. Install Pipe End Cap to Accessible Handrail as shown.

3. Attach Accessible Handrail to Pipe Cradle using 3/8" x 2" Cap Screw and 3/8" Curved Washer.

4. Attach Balcony Platform and Accessible Handrail to Metal Column using Threaded Insert, 1/2" x 2-1/2" Cap Screw, 1/2" USS Washer, Receptacle, 1/2" SAE Washer, Bolt 1/2" x 1-3/4" Tap, and Set Screw 1/2" x 1-1/2" as shown.



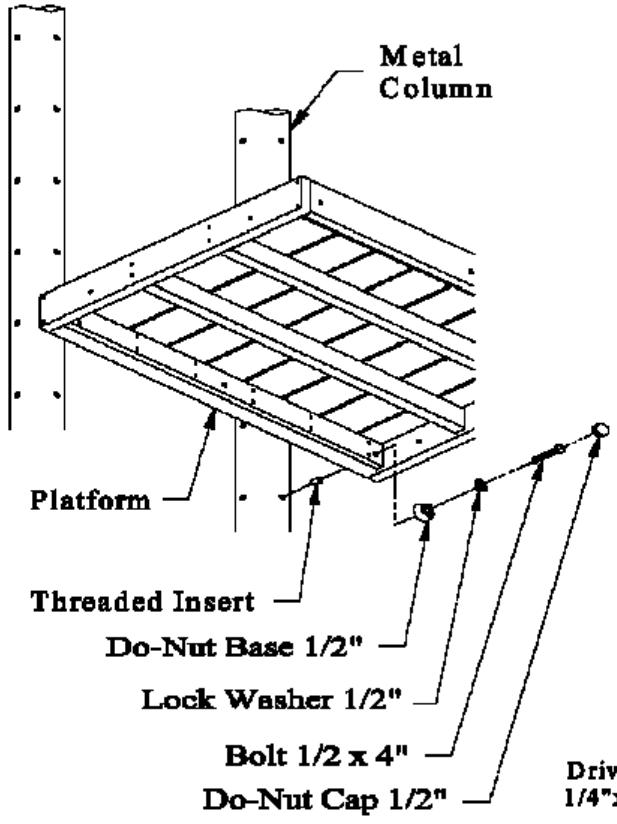


Typical Platform Installation

1. Install the Threaded Insert into the Metal Column as the location specified in the installation instructions.
   (See "Typical Threaded Insert Installation.")

2. Attach Platform to the column using hardware shown.

Note: Some hardware maybe hidden for clarity.



Platform Viewed From Below

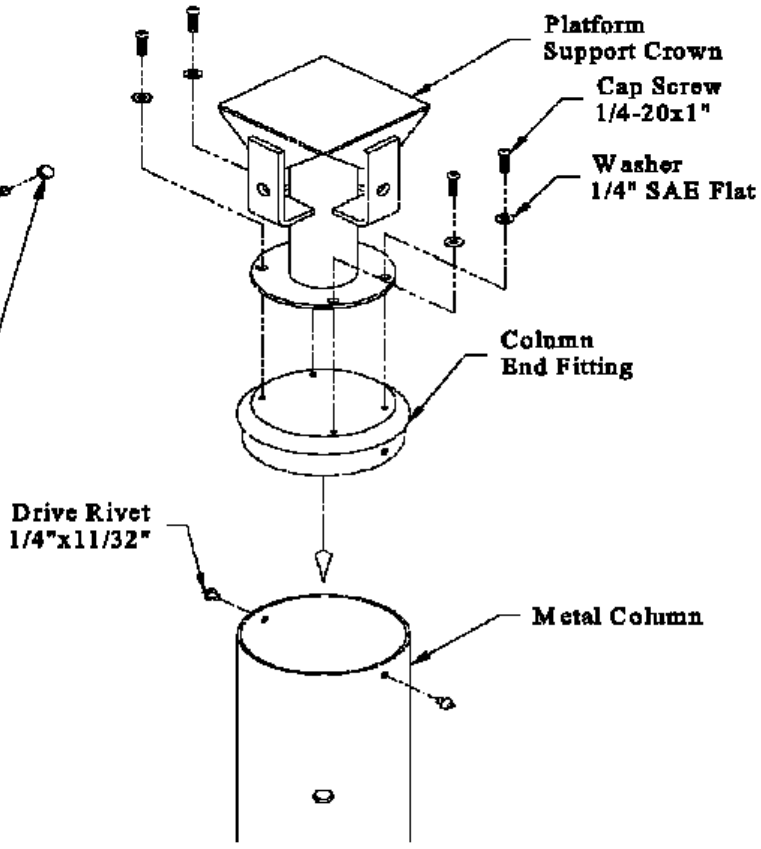
Typical Platform Support Crown Installation

1. Refer to your structure design for location of the Platform Support Crown.

2. Install Threaded Insert into columns at locations specified in installation instructions.
   (See "Typical Threaded Insert Installation.")

3. Insert Column End Fitting into the Metal Column and securely attach in place by using Drive Rivet ¼" x 11/32".

4. Attach Platform Support Crown to Column End Fitting using hardware shown.



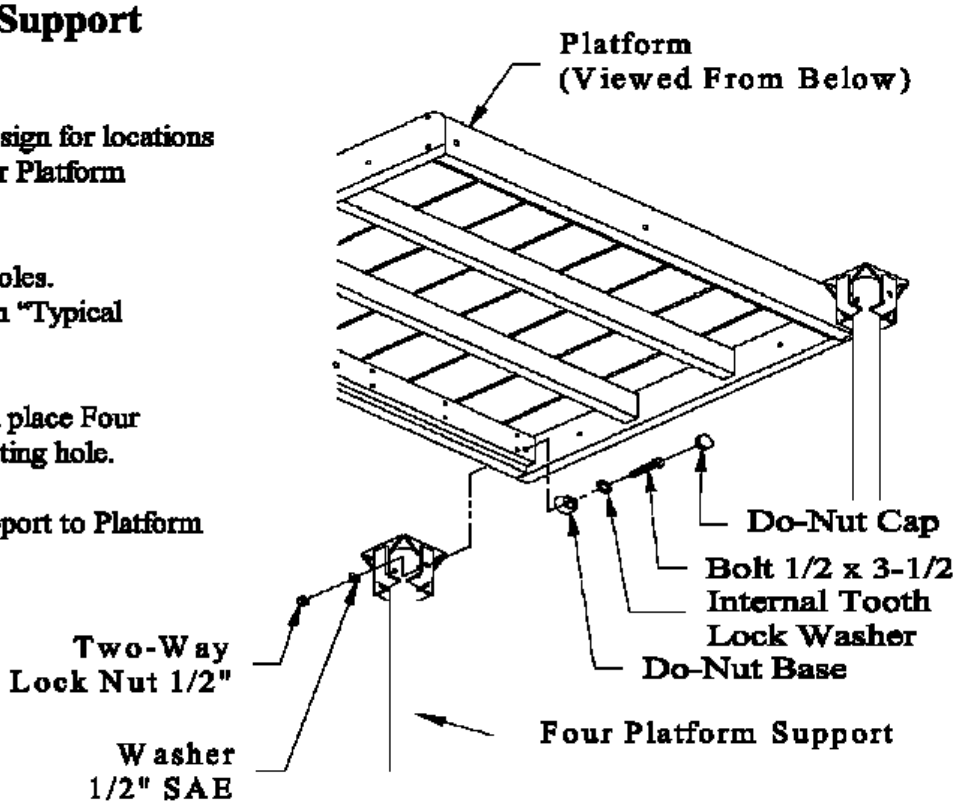
Typical Four Platform Support Installation

1. Refer to your structure design for locations and configurations of Four Platform Support.

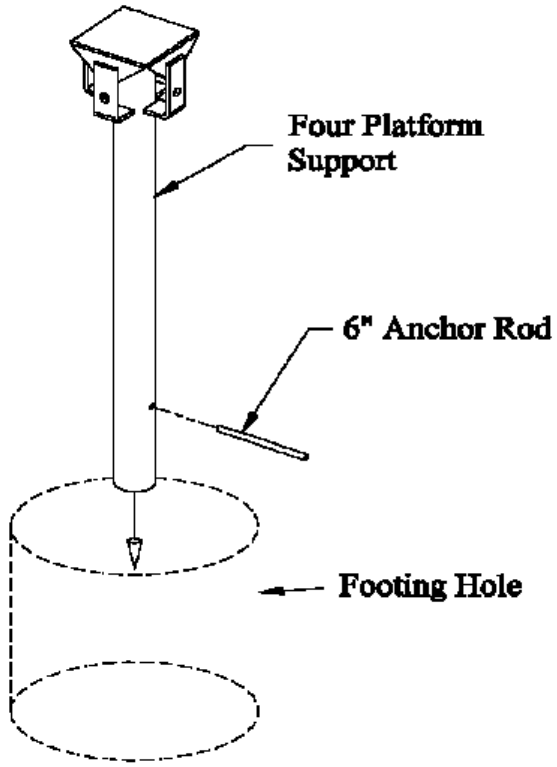
2. Layout footings and dig holes. (See "Standard Footing" in "Typical Concrete Footings.")

3. Insert 6" Anchor Rod and place Four Platform Support into footing hole.

4. Attach Four Platform Support to Platform using hardware as shown.



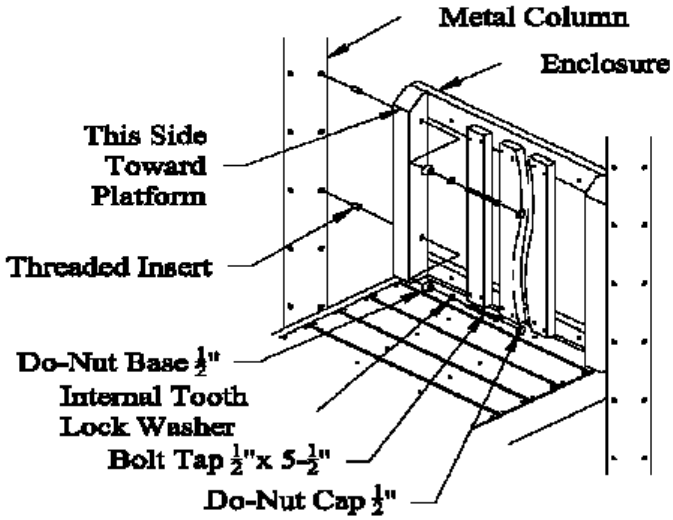
Platform Viewed From Below



Typical Enclosure Installation

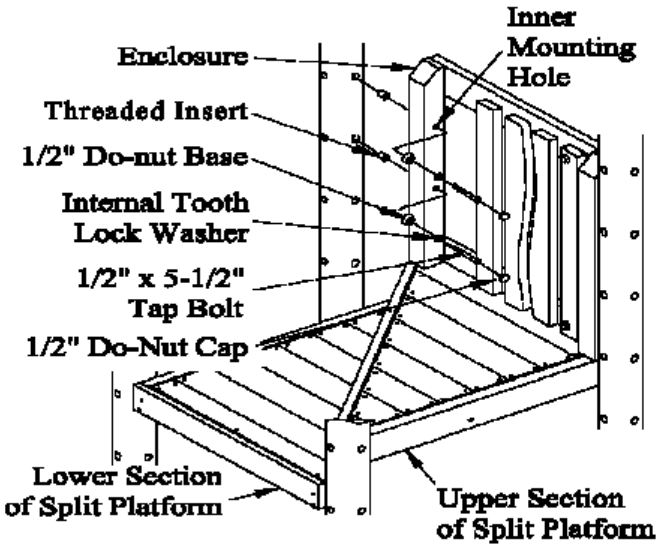
Enclosure installed over Standard Platform

1. Refer to your structure design for location of the Enclosure.
2. **Install Threaded Insert** in columns and in-line with outer mounting holes on Enclosure.
   (See "Typical Threaded Insert Installation.")
3. **Attach Enclosure** to columns using hardware as shown. Be sure that there is a ¼" gap between Enclosure and Platform.



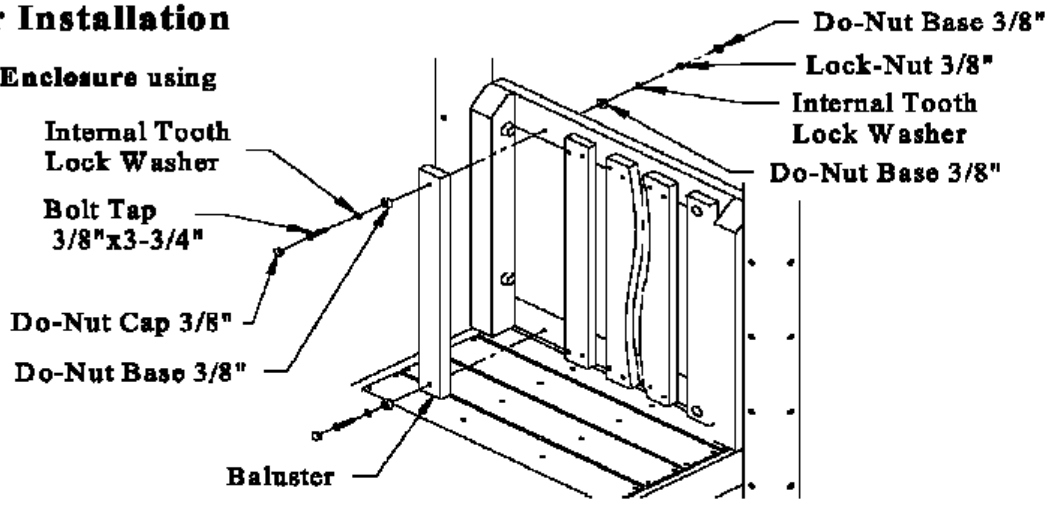
Enclosure installed over upper section of Split Platform

1. Refer to your structure design for location of Enclosure.
2. **Install Threaded Insert** in columns and in-line with inner mounting holes on Enclosure.
   (See "Typical Threaded Insert Installation.")
3. **Attach Enclosure** to columns using hardware as shown. Be sure that there is a ¼" gap between Enclosure and Platform.



Typical Baluster Installation

1. **Attach Balusters to Enclosure** using hardware as shown.

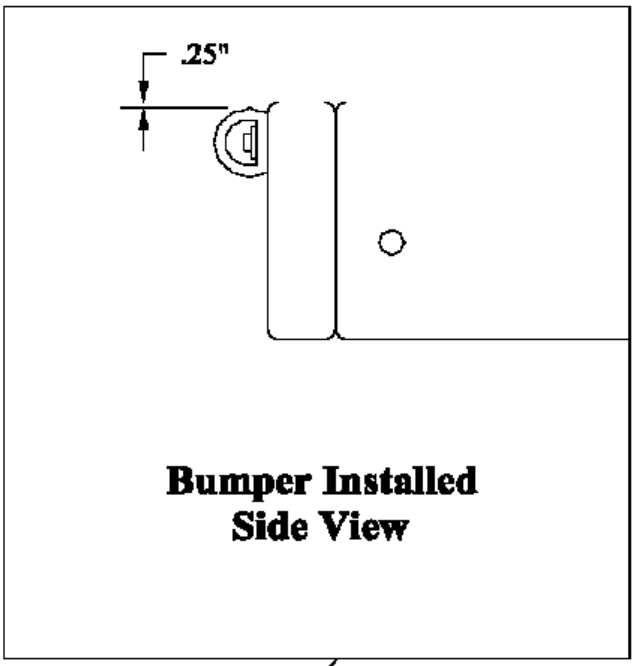


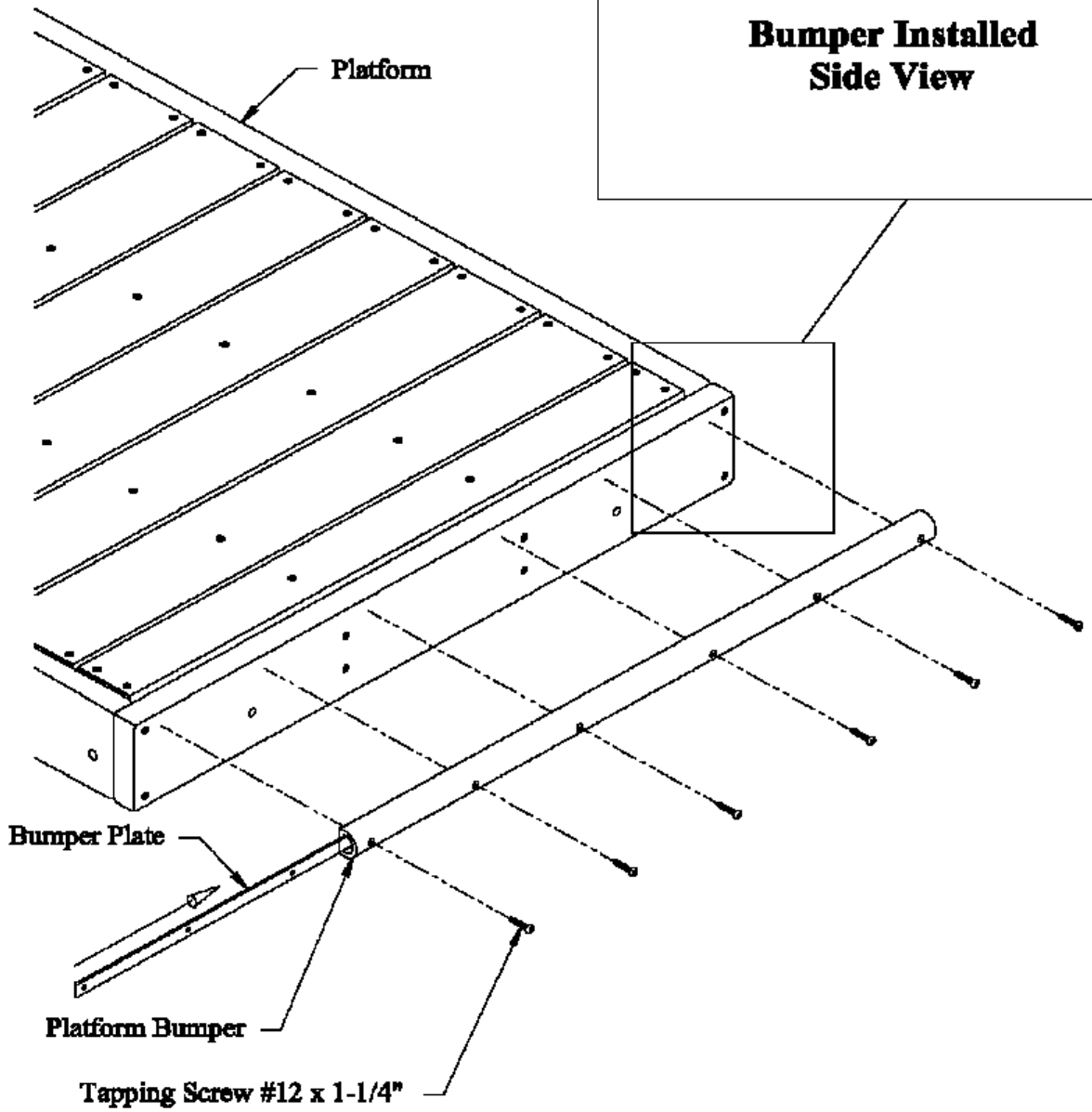
Typical Soft Edge Installation

1. **Insert Bumper Plate into Platform Bumper.**

2. **Center and align top edge of Platform Bumper** to top of platform.

3. **Attach Soft Edge Assembly to platform** by driving Wood Screws through holes in Platform Bumper and Bumper Plate and into Platform.



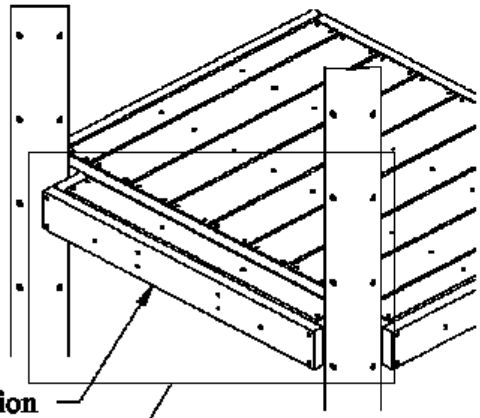


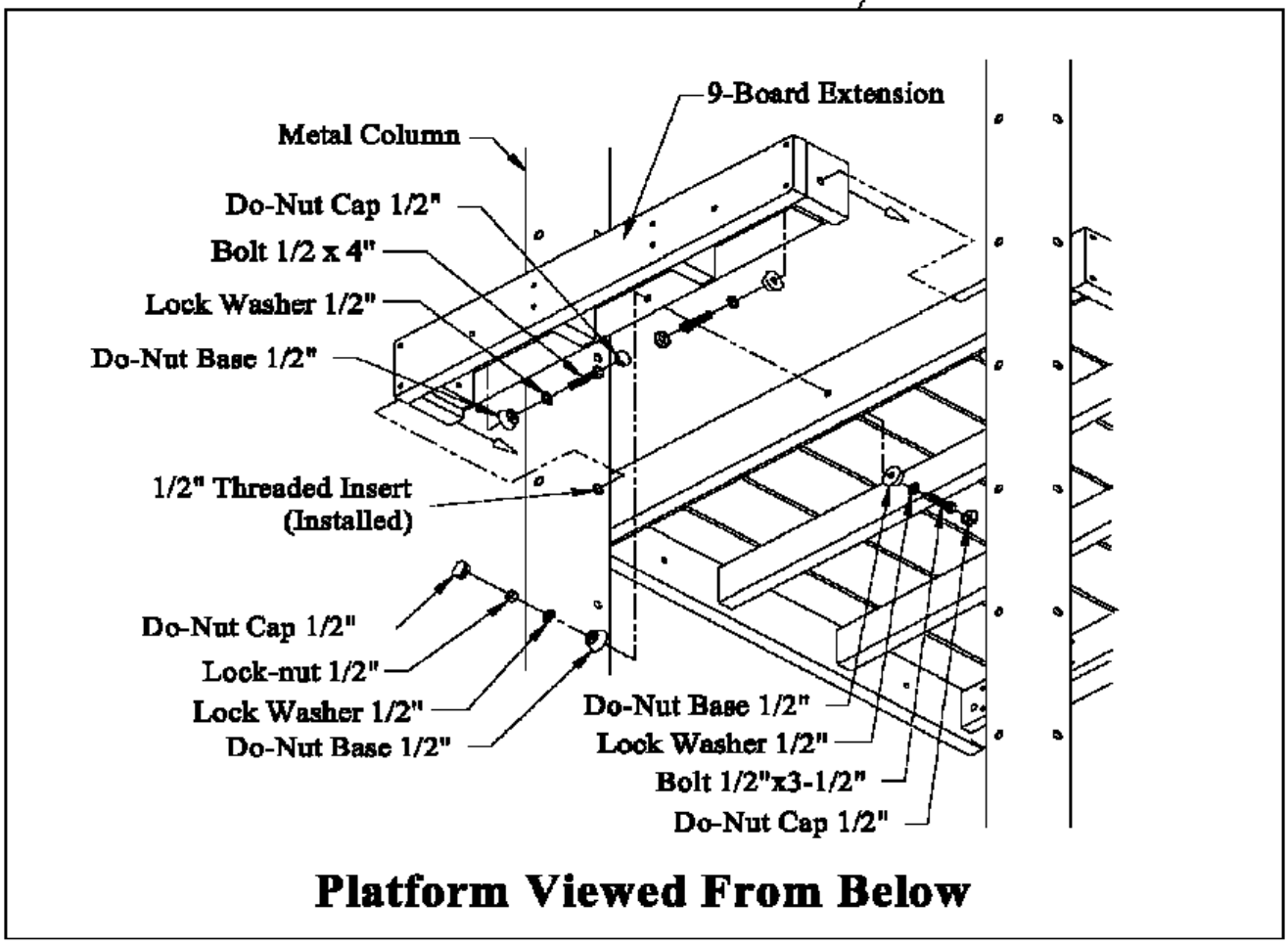
Typical 9-Board Extension Installation

1. Install the Threaded Inserts at the locations specified in Installation Instruction. (See "Typical Threaded Insert Installation").

2. Orient and slide the extension toward the platform in between Metal Columns as shown.

3. Attach the extension to the columns and the the platform using hardware as shown.





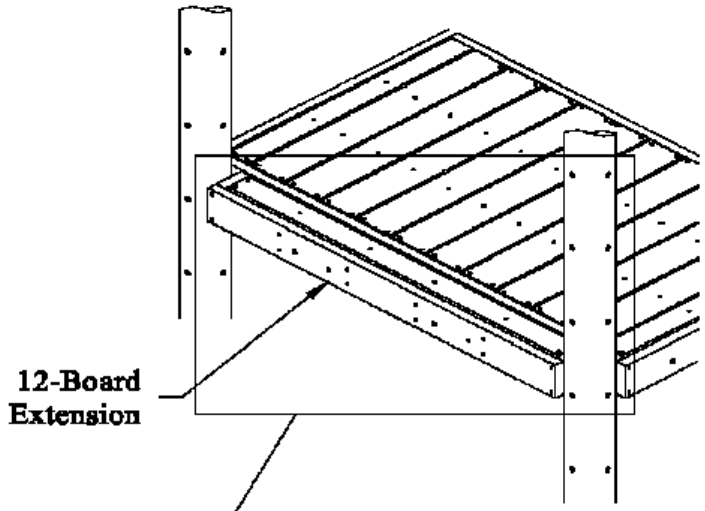
Platform Viewed From Below

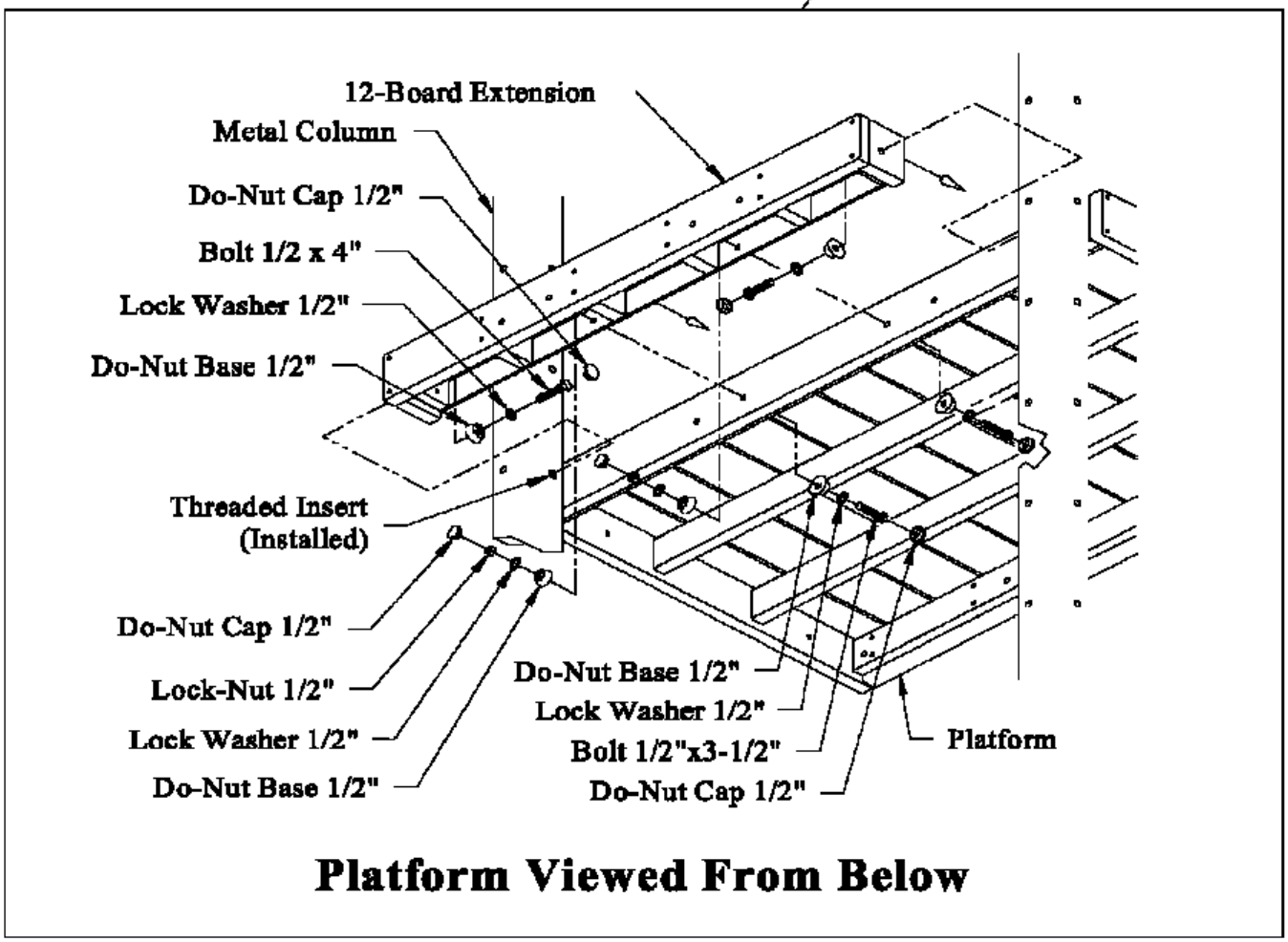
Typical 12-Board Extension Installation

1. Install the Threaded Inserts at the locations specified in Installation Instruction. (See "Typical Threaded Insert Installation").

2. Orient and slide the extension toward the platform in between Metal Columns as shown.

3. Attach the extension to the columns and the the platform using hardware as shown.

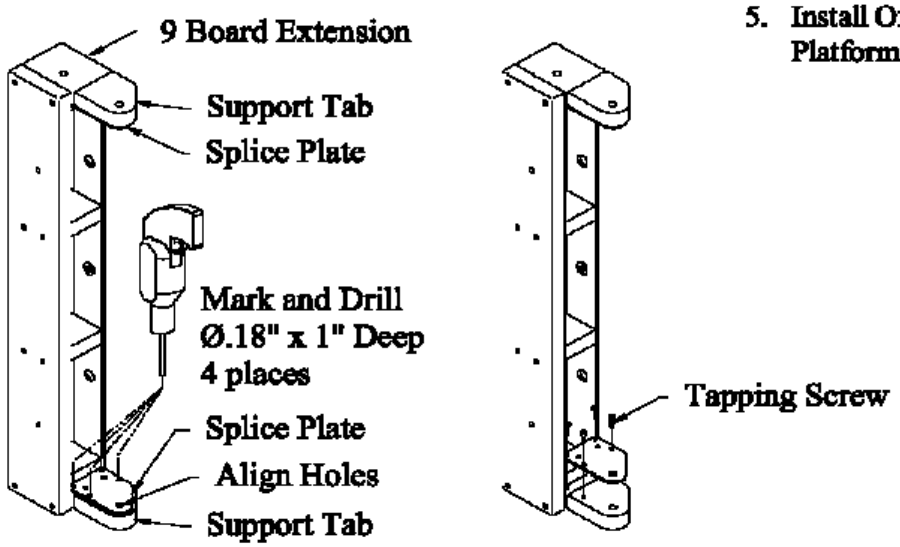


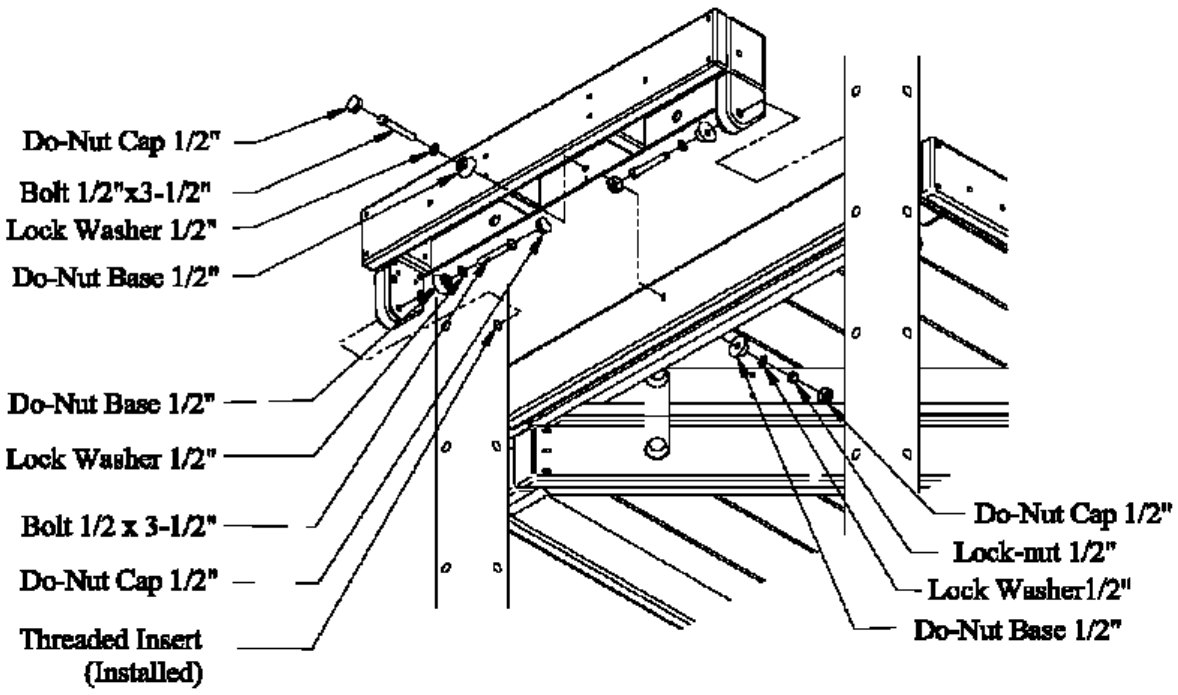


Platform Viewed From Below

Typical 9-Board Offset Extension

1. Temporarily locate Splice Plates and Support Tabs on Extension.
2. Mark hole locations for outer holes (4 places).
3. Drill Ø.18" (3/16") x 1" deep pilot holes into Support Tab and Extension.
4. Attach Support Tabs and Splice Plates to Extension using #04 x 1" Tapping Screws.
5. Install Offset Extension onto Upper Split Platform as shown below.





Glossary of Terms

ACTIVITY	Used to describe that part of a playground structure used to promote a particular type of play. For example, a slide or a climber.
ASTM	American Society for Testing and Materials.
Attachable	An item that can be attached to the basic structure.
Basic Structure	Columns or posts, platforms and enclosures.
Clearance Zone	A clear area, free of equipment, that surrounds the specific types of dynamic play events e.g.; swings, slides, etc.).
CSA	Canadian Standards Association
End caps	Plastic disks used to cover column ends.
Footing	Concrete base supporting vertical columns and pipes
Hole Plug	Plastic device used to plug unused holes in wood columns.
IPEMA	International Play Equipment Manufacturer's Association
No-Encroachment Zone	The additional area adjacent to the protective surfacing zone surfacing intended to allow pedestrian traffic near the play equipment in use while minimizing the risk of injury to pedestrians (CSA only).
Platforms	Horizontal decks forming part of the basic structure.
Play Event	See "Activity."
Structure	A single activity or group of activities joined to form one unit.
Threaded Insert	An expanding anchor that allows for mechanical attachment to the metal column.
USCPSC	United States Consumer Product Safety Commission.

Contact Information for Safety Standards

► US Consumer Product Safety Commission, Washington DC 20207
Phone: (800) 638-2772
Fax: (301) 504-0124
Web address: US Consumer Product Safety Commission

- Handbook for Public Playground Safety

► American Standards for Testing and Materials: 100 Barr Harbor Dr., West Conshocken, PA 19428
Phone: (610) 832-9585
Fax: (610) 832-9555
Web address: American Standards for Testing and Materials

- F1487-01: Standard Safety Performance Specification for Playground Equipment for Public Use
- F1292-95: Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

► Canadian Standards Association, Consolidated Mailing List, 178 Rexdale Blvd., Etobicoke, Ontario, Canada M9W1R3
Phone: (416) 747-4000 or (866)797-4272 Toll Free 8-5, EST
Fax: (416) 747-4149
Web address: Canadian Standards Association

- CAN/CSA-Z614-03: Children's Playspaces and Equipment

M59001 PLAYHOUSE TABLE

Parts List		
DESCRIPTION	QTY	PART NUMBER
PLAYHOUSE ANGLE BRACKET	1	405068
TABLE TOP	1	405128
TABLE LEG	1	405129
---HARDWARE COMPLETE---	1	405130
#10 x 1 1/2" WOOD SCREW	4	815509
3/8" x 2" LAG SCREW	2	800726

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

PLAYHOUSE ANGLE BRACKET: Shall be 1/8" x 1 1/4" Pickled and Oiled Hot Rolled Flat Steel. Playhouse Angle Bracket will have baked on polyester powder-coated finished after fabrication.

TABLE TOP: Shall be precision cut from a single solid sheet of .50" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

TABLE LEG: Shall be fabricated from 2" x 4" Nominal HDPE uv-inhibited Plastic Lumber. Density/L.F.:0.061

HARDWARE: All screws and used in assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. The wood screws are #10 stainless steel.

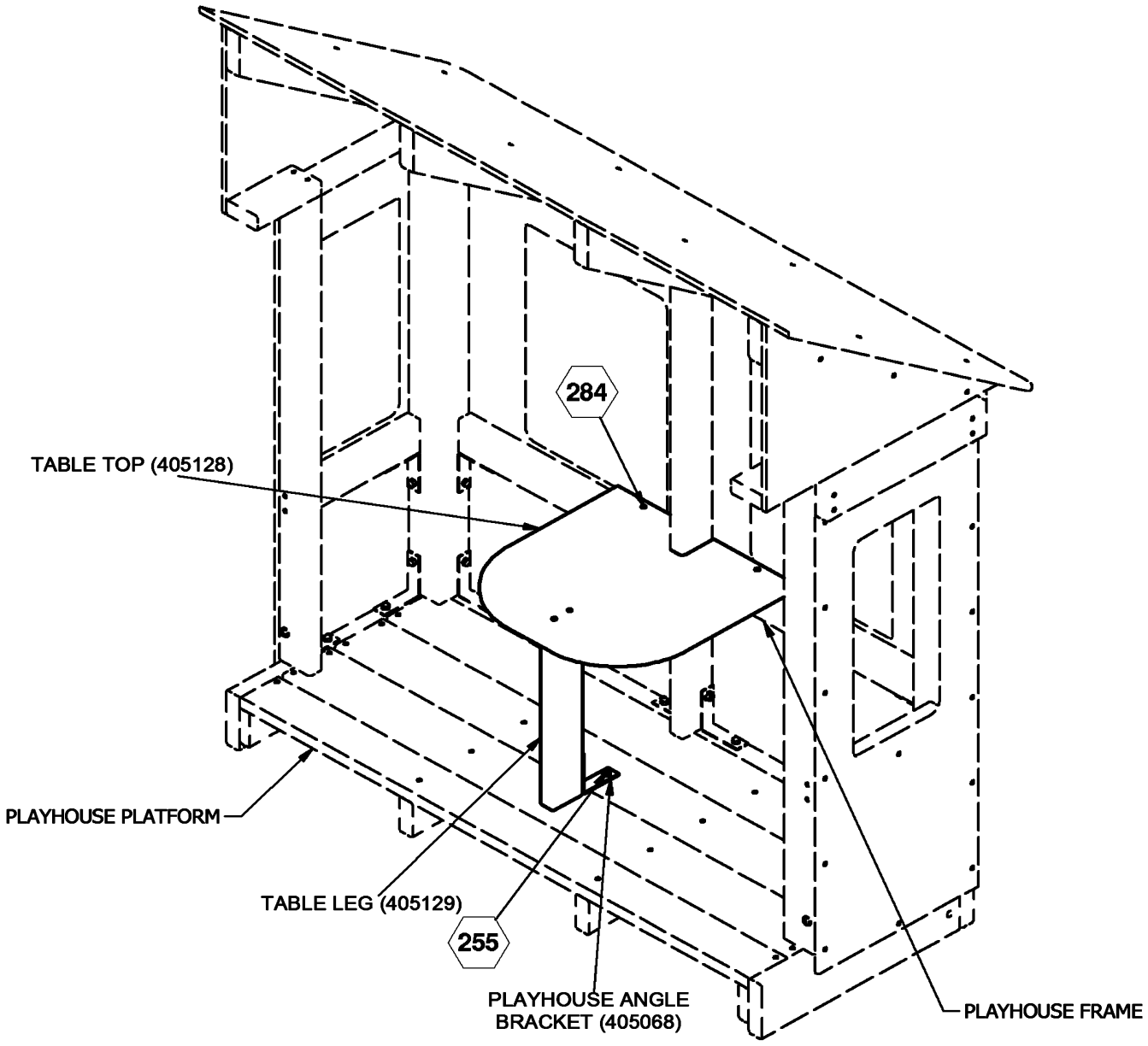
INSTALLATION INSTRUCTIONS:

1. Locate Table Top and attach Table Leg to the Table Top using #10 x 1 1/2" Wood Screws. See Detail 284.
2. Attach Playhouse Angle Bracket to Table Leg using 3/8" x 2" Lag Screw. See Detail 255. **NOTE:** Make sure that the bottom of the Playhouse Angle Bracket is flush with the bottom of the Table Leg before using.
3. Slide assembled Table into the correct location and attach Table Top to the Playhouse frame using #10 x 1 1/2" Wood Screws. See Detail 284.
4. Attach Playhouse Angle Bracket to Playhouse Platform using 3/8" x 2" Lag Screw. See Detail 255.
5. Plumb and level the entire assembly and tighten all fasteners.
6. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

M59001 PLAYHOUSE TABLE

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

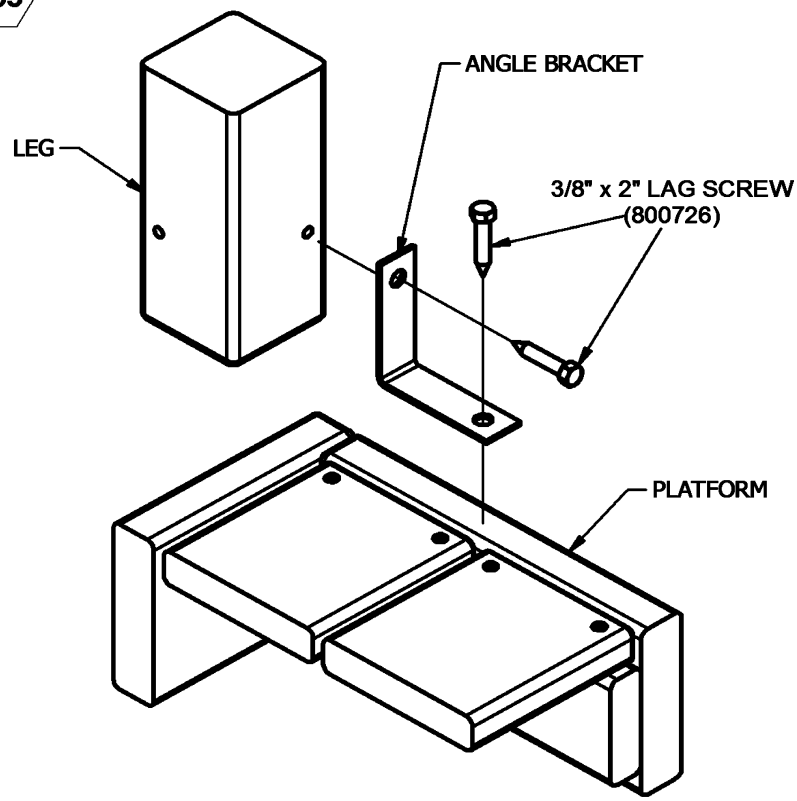
Issued/Revised: 04/09/15

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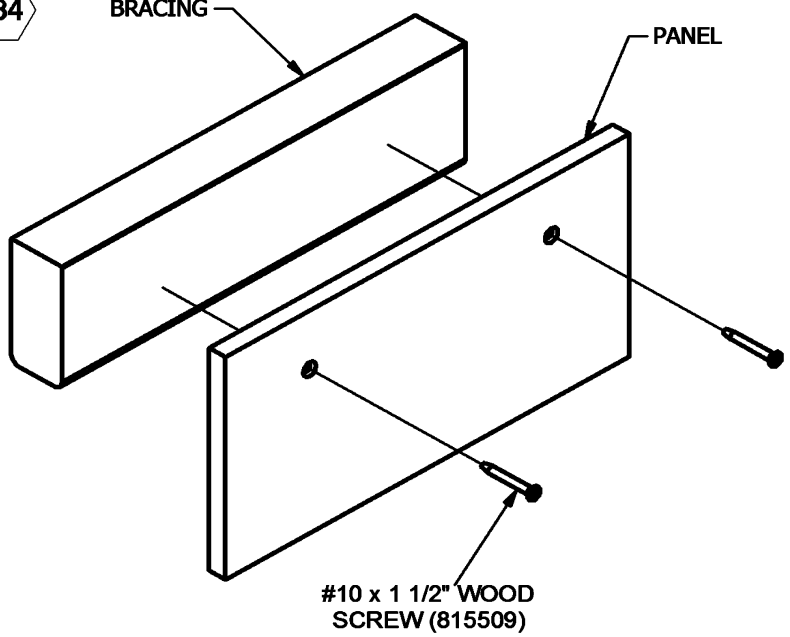
bigtoys.com

M59001 PLAYHOUSE TABLE

255



284



M59006 5' PLAYHOUSE

Parts List		
DESCRIPTION	QTY	PART NUMBER
4' UPRIGHT	2	405040
4' UPRIGHT 2	2	405215
DOORWAY TOP PLATE	2	405041
4' STUD 1	2	405042
4' STUD 2	1	405043
4' STUD 3	1	405062
5' TOP BEAM	1	405044
5' MIDDLE ROOF STRUTS	4	405045
5' ROOF STRUT	4	405046
5' BLOCKING	4	405047
SHORT BLOCKING	2	405048
5' END CAP	2	405049
DOOR PANEL	2	405050
5' SIDE PANEL	2	405051
5' ROOF PANEL	2	405052
5' PLAYHOUSE PLATFORM	1	405054
TOP PLATE 2	2	405061
PLAYHOUSE ANGLE BRACKET	22	405068
DOOR PANEL BRACE	2	405075
---HARDWARE COMPLETE---	1	405067
#10 x 1 1/2" SHEET METAL SCREW	40	810064
#10 x 2" WOOD SCREW	112	815507
#10 x 3" WOOD SCREW	28	815511
3/8" x 2" LAG SCREW	34	800726
3/8" x 2" P.B.H.C.S. w/PATCH	6	812055
3/8" FLAT WASHER	8	817410
3/8" HEX NUT	6	804053

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

M59006 5' PLAYHOUSE

SPECIFICATIONS:

Uprights, Top Plates, Studs, Top Beams, Roof Struts, Blockings, Braces: Shall be fabricated from 2" x 4" and 4" x 4" Nominal HDPE uv-inhibited Plastic Lumber. Density/L.F.:0.061

Hdpe Panels: Shall be precision cut from a single solid sheet of .50" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

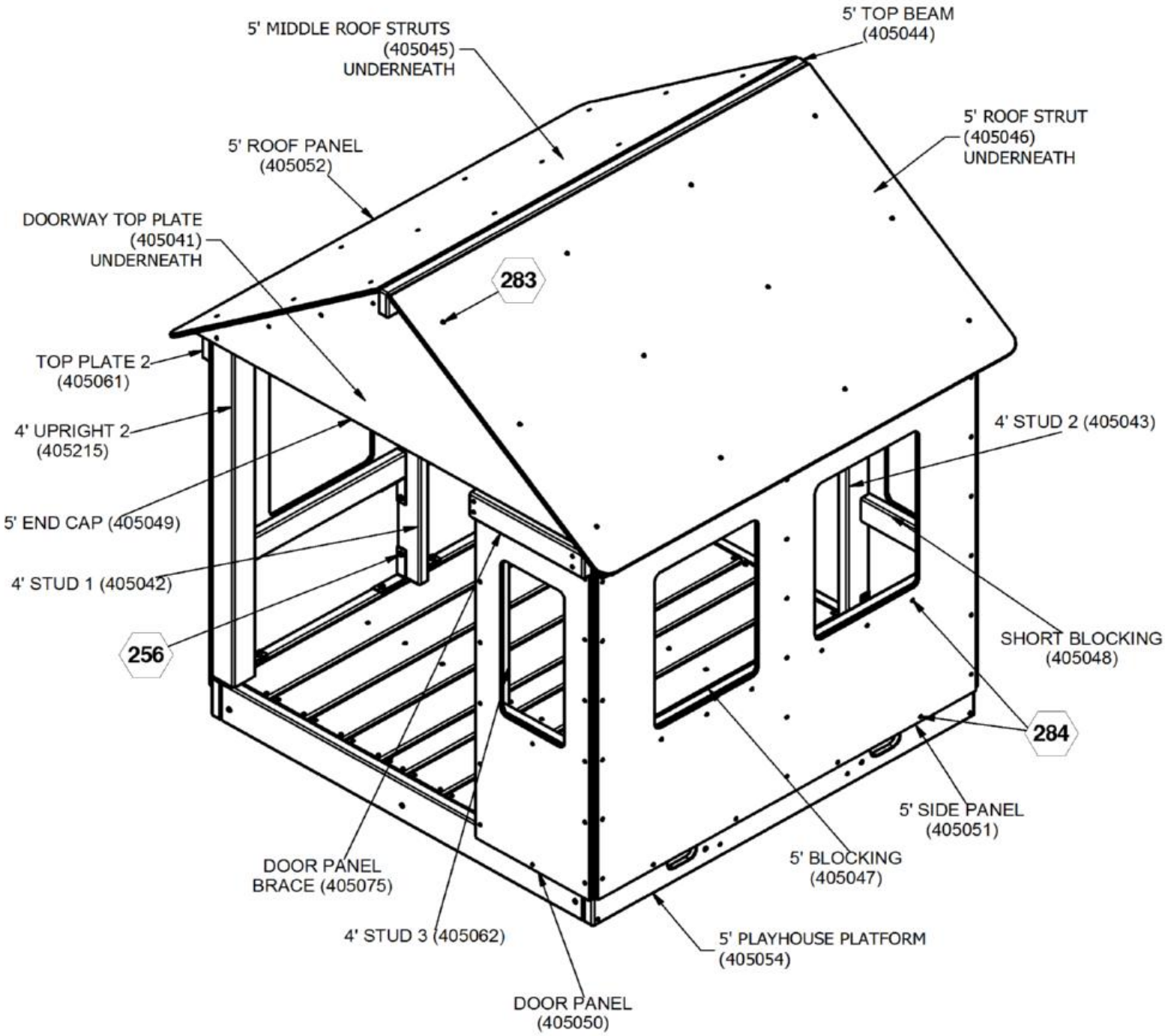
Playhouse Angle Bracket: Shall be 1/8" x 1 1/4" Pickled and Oiled Hot Rolled Flat Steel. Playhouse Angle Bracket will have baked on polyester powder-coated finished after fabrication.

Platform: Shalll be constructed from 5/4" platform floor and doubler boards, nominal 2" x 4" support boards, and nominal 2" x 6" skirting boards. Platform is constructed using #10 stainless steel screws. All support, doubler, and skirting components are fiberglass reinforced for rigidity.

Hardware: All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consisit of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

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M59006 5' PLAYHOUSE



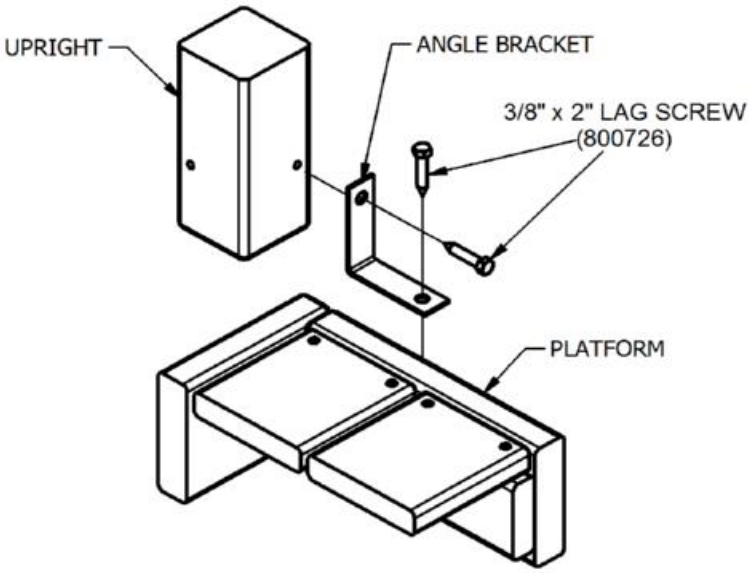
FINISHED ASSEMBLY

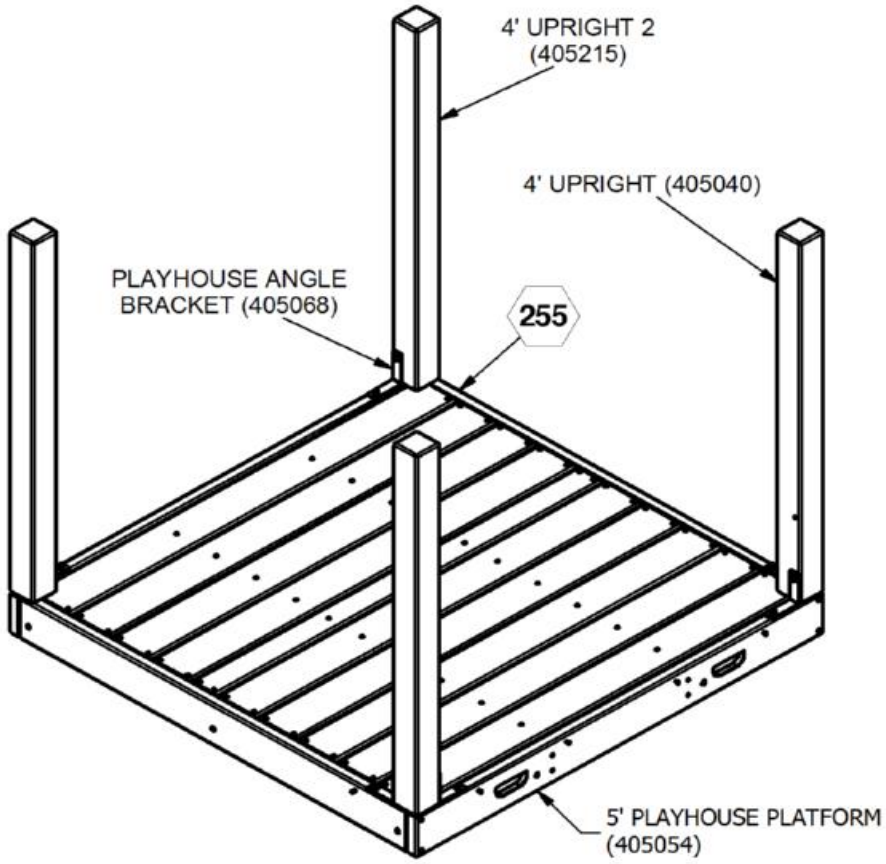
⬡ = INSTALLATION DETAIL

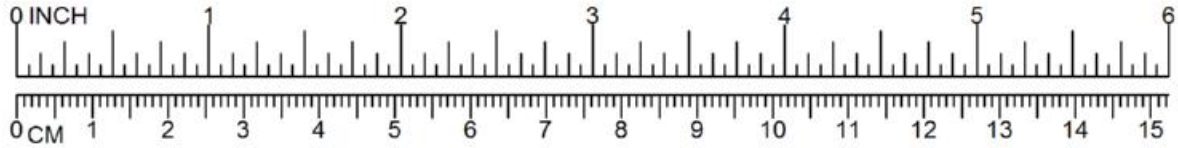
M59006 5' PLAYHOUSE
STEP 1

1. Attach 4' Upright and 4' Upright 2 to 5' Playhouse Platform using Playhouse Angle Bracket and 3/8" x 2" Lag Screw. See Detail 255.
   NOTE: Make sure that the 4' Upright is flush with the outside of platform before attaching.

255





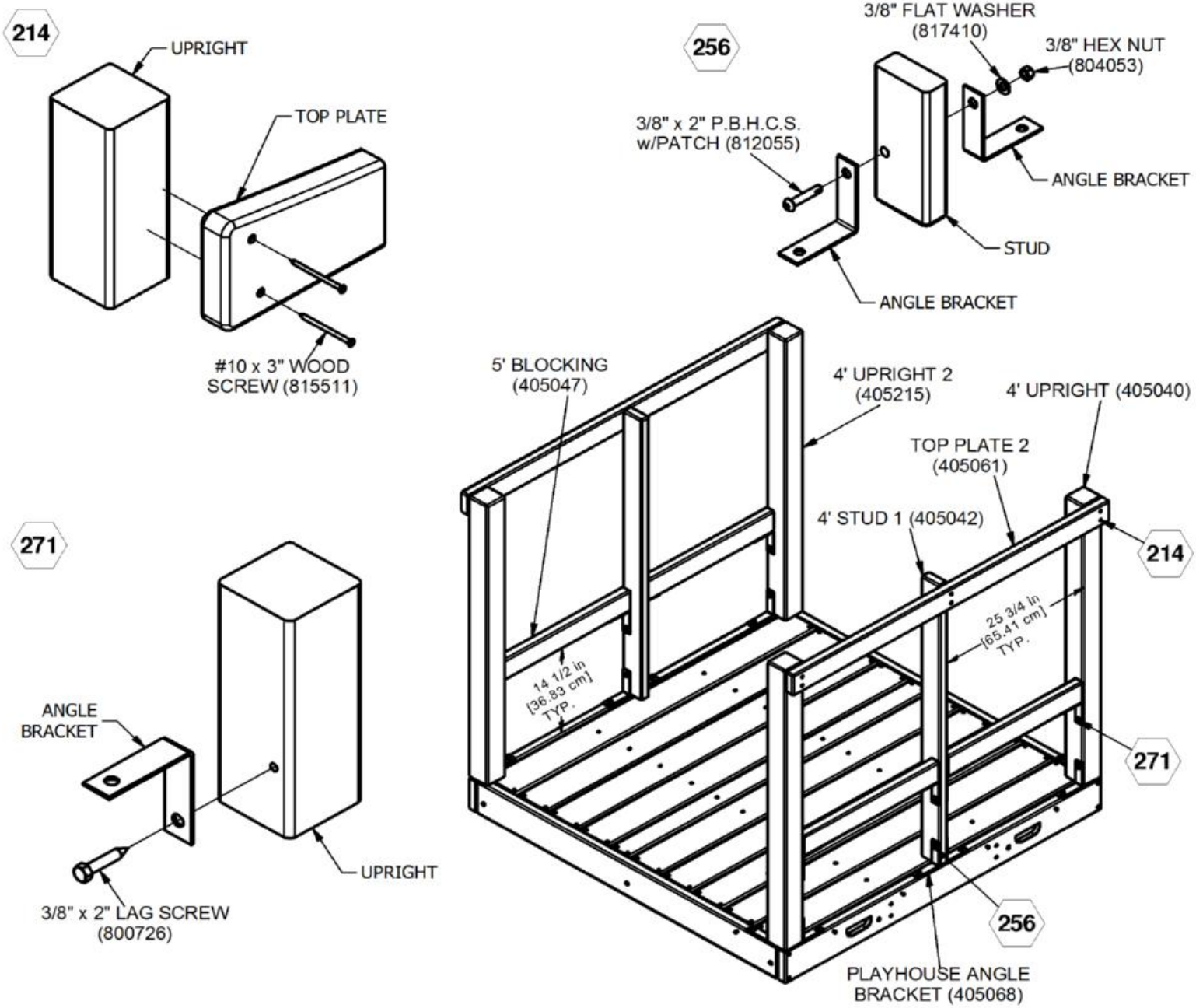


M59006 5' PLAYHOUSE
STEP 2

1. Attach Top Plate 2 to 4' Upright and 4' Upright 2 using #10 x 3" Wood Screws. See Detail 214. **NOTE:** Make sure the top and sides of the Top Plate 2 are flush with the top and sides of the 4' Uprights before attaching.

2. Attach Playhouse Angle Bracket to 4' Stud 1, 4' Uprights, and 4' Upright 2 using 3/8" x 2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Hex Nut. See Detail 256.

3. Attach Playhouse Angle Bracket to 5' Blockings, 4' Uprights, and 4' Upright 2 using 3/8" x 2" Lag Screws. See Detail 271. **NOTE:** Make sure the face of the 5' Blocking is flush with the face of the 4' Uprights before attaching.

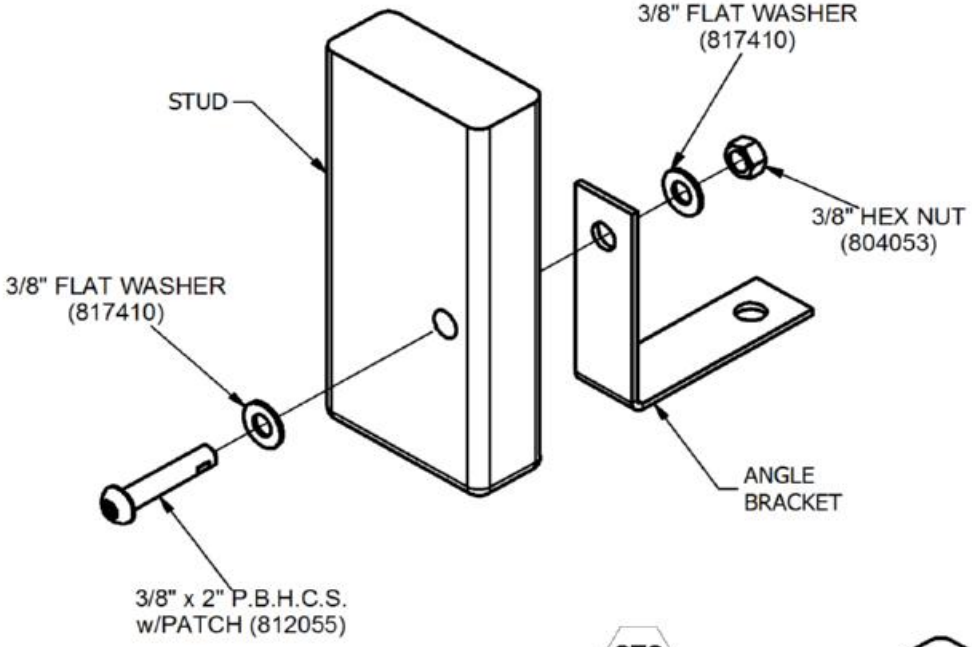


M59006 5' PLAYHOUSE
STEP 3

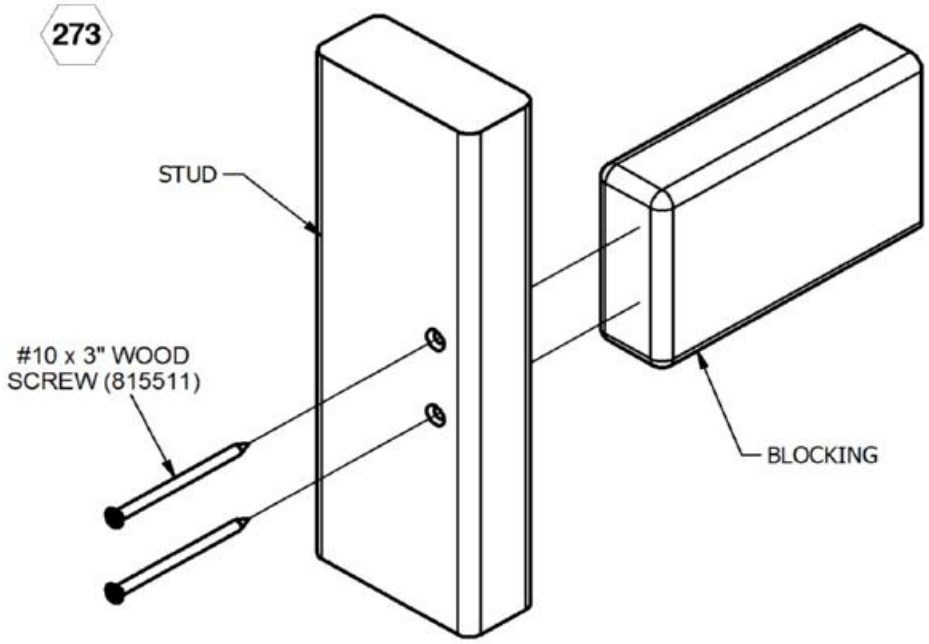
1. Attach Playhouse Angle Bracket to 4' Stud 2 and 4' Stud 3 using 3/8" x 2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Hex Nut. See Detail 272.

2. Attach Short Blocking to 4' Stud 2 and 4' Stud 3 using #10 x 3" Wood Screw. See Detail 273. **NOTE:** Make sure the face of the Short Blocking is flush with the face of the 4' Stud 2 before attaching.

272



273

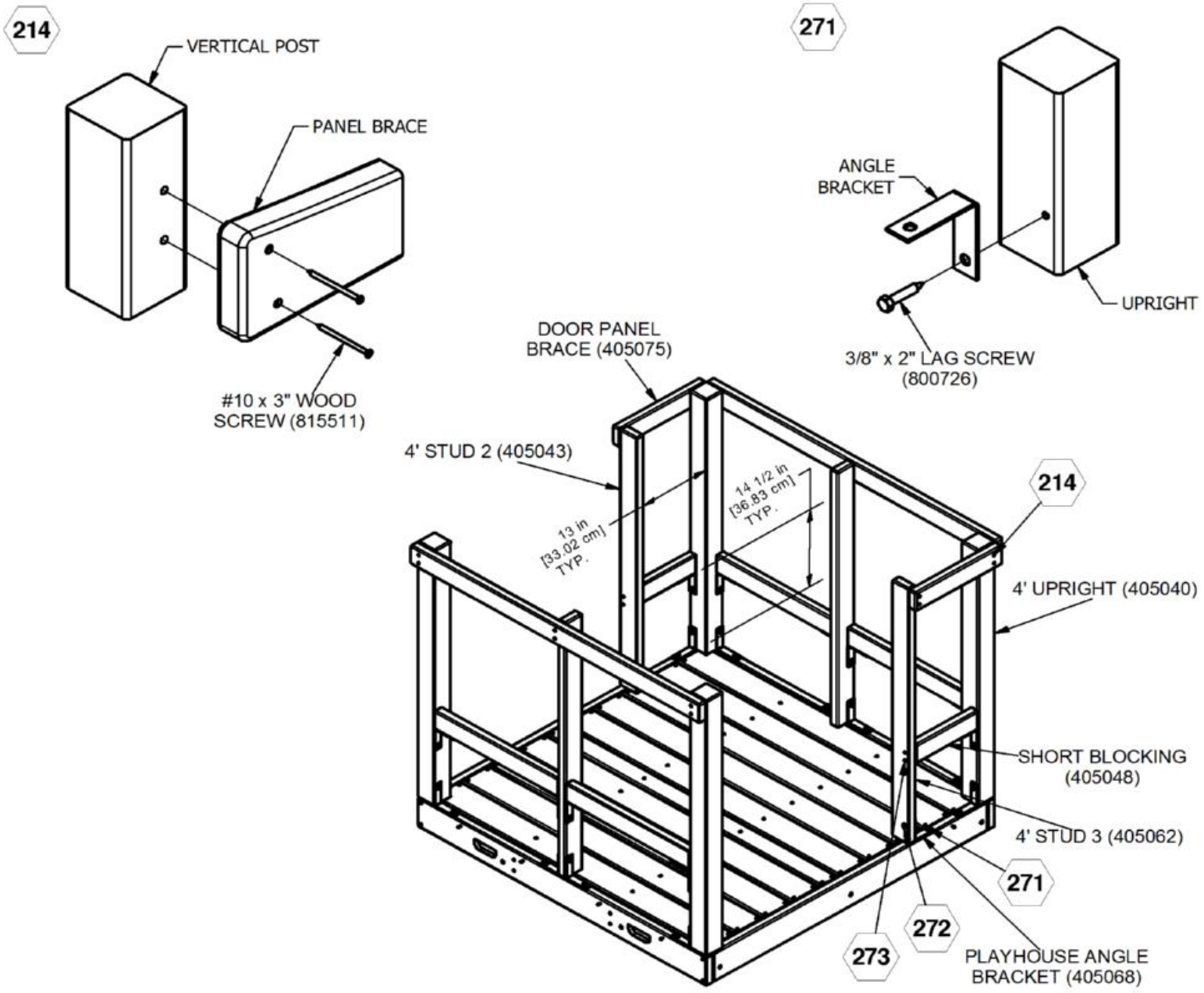


M59006 5' PLAYHOUSE
STEP 3 CONT'D

3. Attach Door Panel Brace to 4' Stud 2, 4' Stud 3, and 4' Uprights using #10 x 3" Wood Screws. See Detail 214. **NOTE:** Make sure the Door Panel Brace top and sides are flush with the top and sides of the 4' Upright, 4' Stud 2, 4' Stud 3 before attaching.

4. Attach Playhouse Angle Bracket to Short Blocking and 4' Upright using 3/8" x 2" Lag Screws. See Detail 271. **NOTE:** Make sure the face of the Short Blocking is flush with the face of the 4' Upright before attaching.

5. Attach Playhouse Angle Bracket on 4' Stud 2 and 4' Stud 3 to Platform using 3/8" x 2" Lag Screws. See Detail 271.

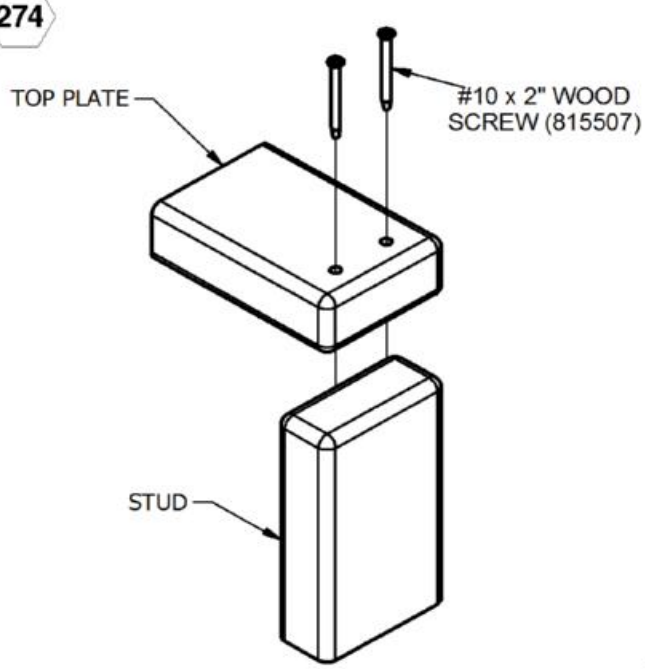


M59006 5' PLAYHOUSE
STEP 4

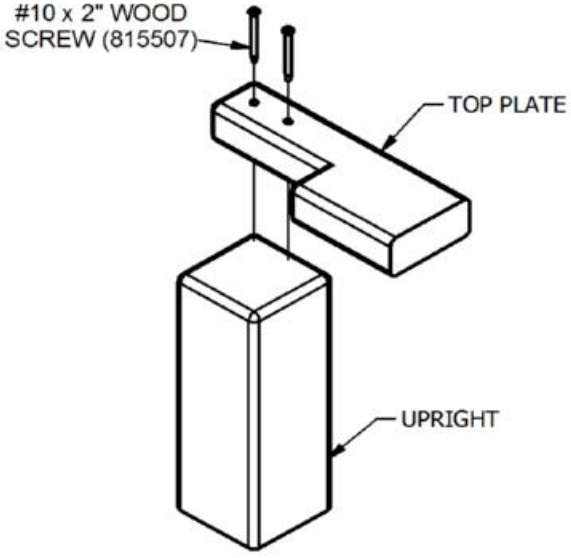
1. Attach Doorway Top Plate to 4' Stud 2 and 4' Stud 3 using #10 x 2" Wood Screw. See Detail 274. **NOTE:** Make sure the sides and back of the Doorway Top Plate are flush with the sides and back of the 4' Stud 2 before attaching.

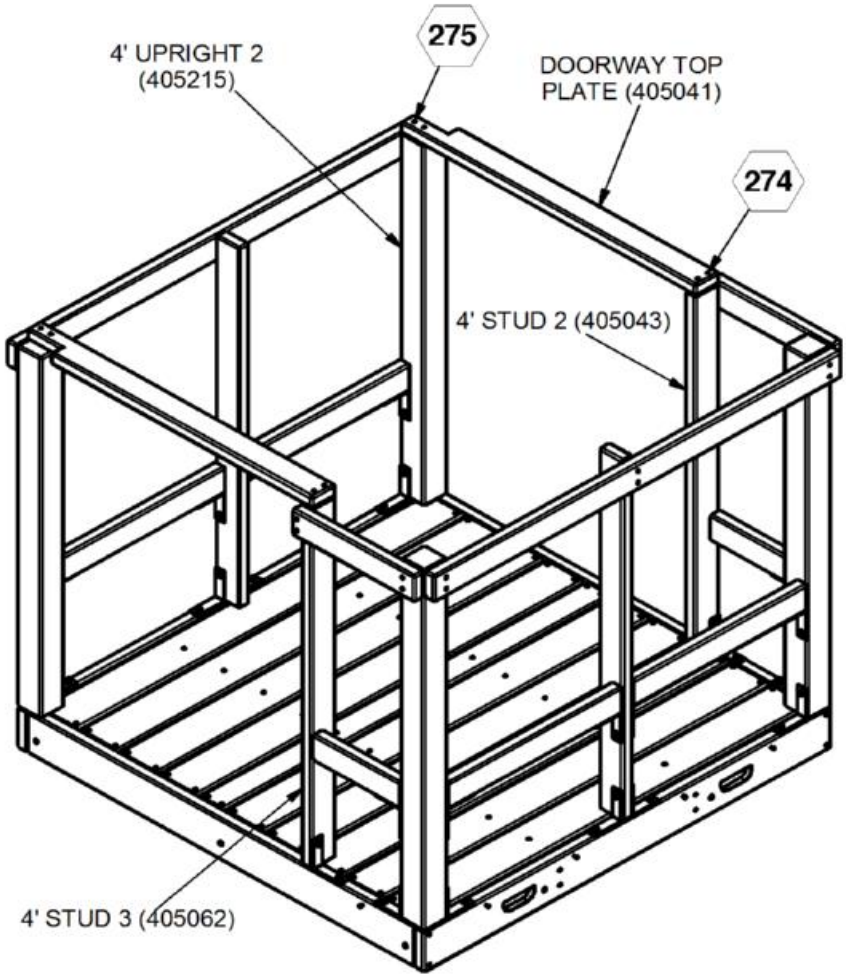
2. Attach Doorway Top Plate to 4' Upright 2 using #10 x 2" Wood Screw. See Detail 275. **NOTE:** Make sure the side and front of the Doorway Top Plate are flush with the side and front of the 4' Upright 2 before attaching.

274



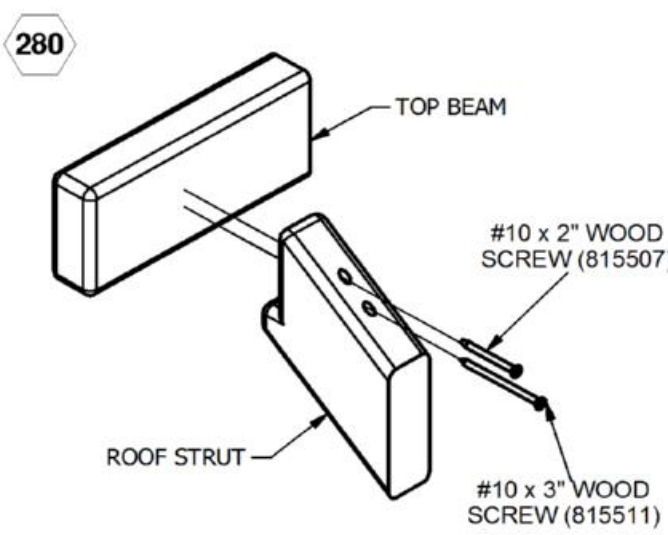
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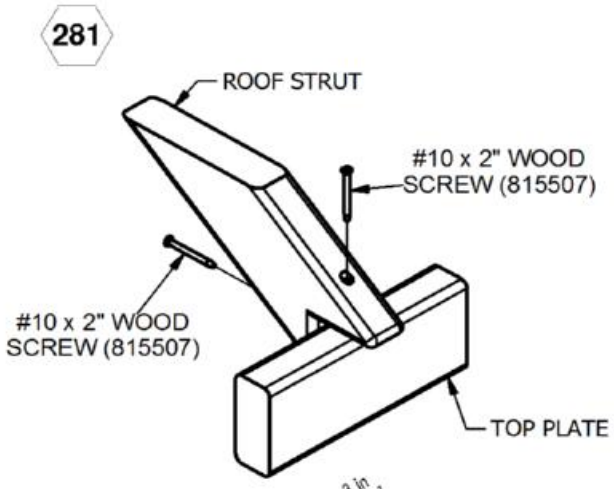


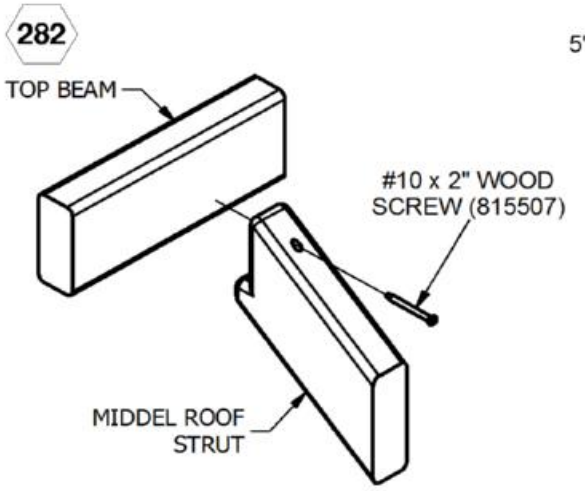


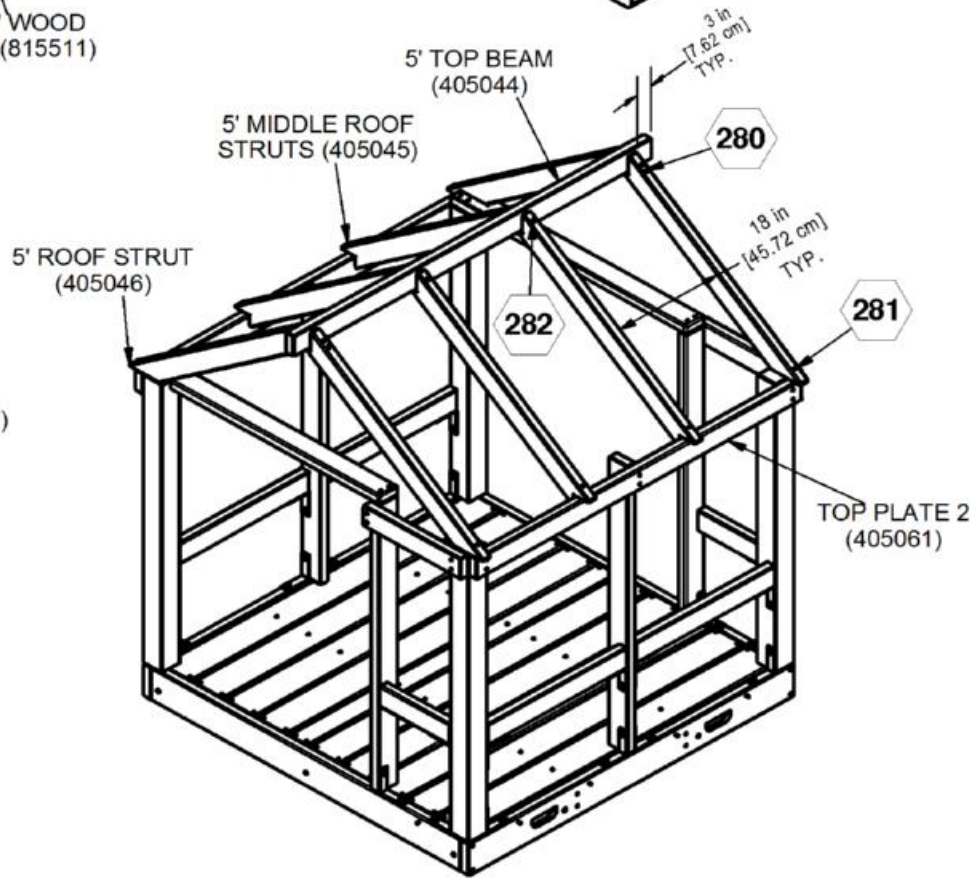
M59006 5' PLAYHOUSE
STEP 5

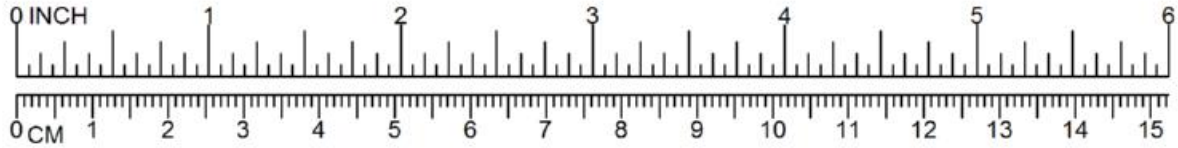
1. Attach 5' Roof Strut to 5' Top Beam using #10 x 2" Wood Screw and #10 x 3" Wood Screw. See Detail 280.
2. Attach 5' Roof Strut to Top Plate 2 using #10 x 2" Wood Screw. See Detail 281.
3. Attach 5' Middle Roof Strut to 5' Top Beam and Top Plate 2 using #10 x 2" Wood Screw. See Detail 282.











M59006 5' PLAYHOUSE
STEP 6

1. Attach 5' Side Panel to 4' Upright and 4' Stud 1 using #10 x 2" Wood Screw. See Detail 283. **NOTE:** Make sure the top of the 5' Side Panel is flush with the bottom of the Top Plate 2 before attaching.

2. Attach 5' Side Panel to 5' Blocking and 5' Playhouse Platform using #10 x 1 1/2" Sheet Metal Screw. See Detail 284.

3. Attach Door Panel to 4' Upright and 4' Stud 2 and 3 using #10 x 2" Wood Screw. See Detail 283. **NOTE:** Make sure the top of the Door Panel is flush with the bottom of the Door Panel Brace before attaching.

4. Attach Door Panel to Short Blocking and 5' Playhouse Platform using #10 x 1 1/2" Wood Screw. See Detail 284.

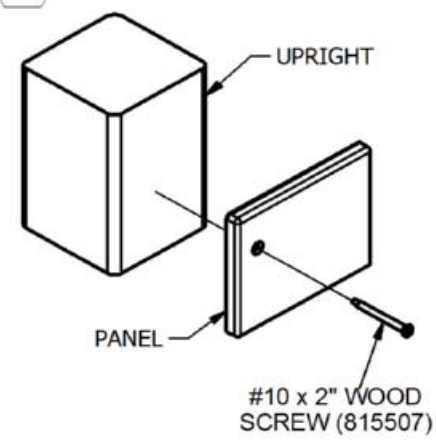
5. Attach Roof Panel to 5' Roof Strut and 5' Middle Roof Strut using #10 x 2" Wood Screws. See Detail 283. **NOTE:** Make sure the top of the Roof Panel is flush with the 5' Top Beam before attaching.

6. Attach 5' End Caps to 5' Roof Struts using #10 x 1 1/2" Wood Screw. See Detail 284. **NOTE:** Make sure the top edges of 5' End Cap meets bottom surface of 5' Roof Panel before attaching.

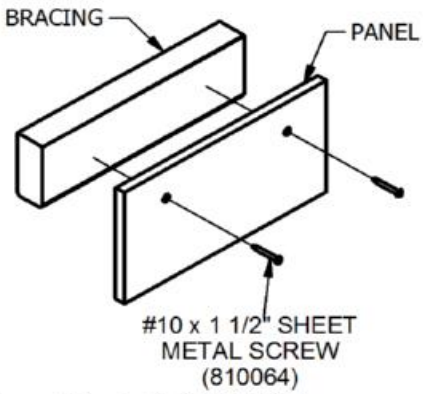
7. Plumb and level the entire assembly and tighten all fasteners.

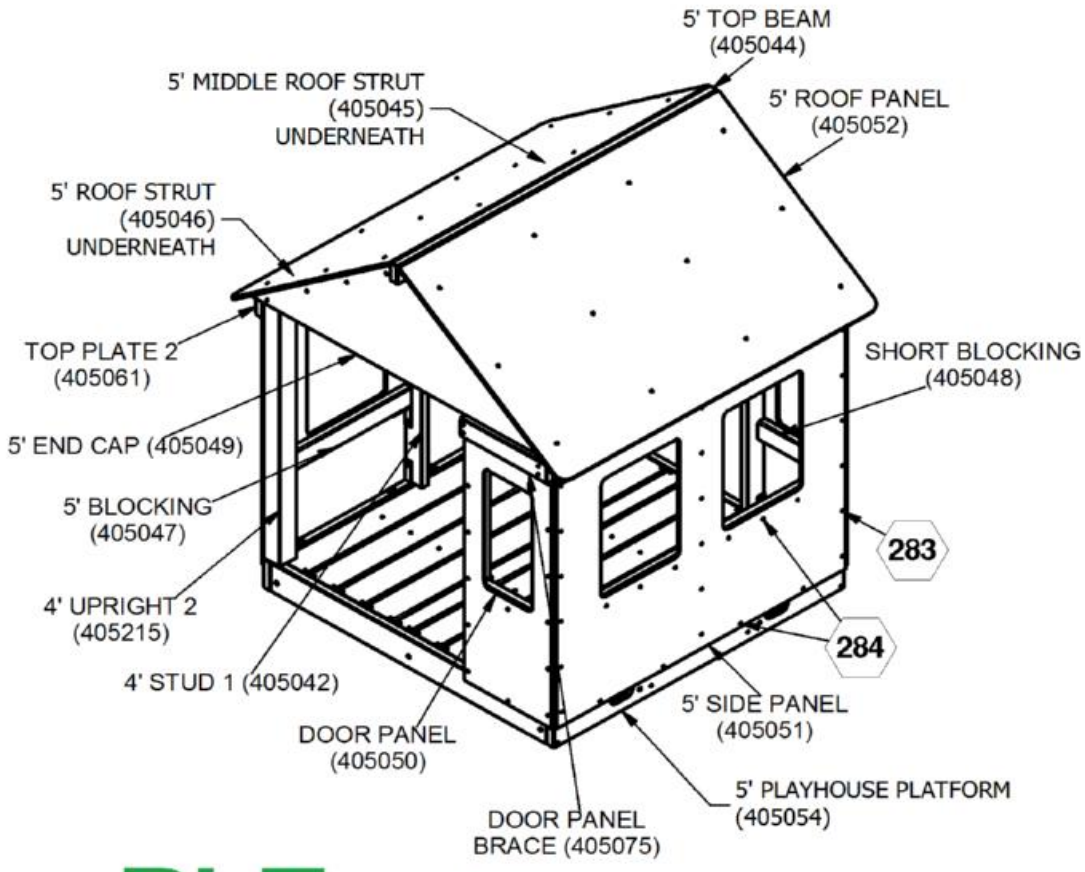
8. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height fo each structure. Refer to the safety guidelines.

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Issued/Revised: 11/14/16

1-866-814-8697

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M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

Parts List			
DESCRIPTION	M59014	M59018	PART NUMBER
PLAYHOUSE ANGLE BRACKET	1	1	405068
UPRIGHT	1	1	405134
FAUCET HANDLE	2	2	405135
FAUCET HANDLE SPACER	2	2	405136
SUPPORT	2	2	405137
BASIN	1	1	405138
FAUCET	1	1	405139
FAUCET BRACE	2	2	405140
STOVE KNOB	4	4	405169
5' COMBO COUNTER	1	0	405171
5' COMBO FRAME	1	0	405172
6' COMBO COUNTER	0	1	405174
6' COMBO FRAME	0	1	405175
---HARDWARE COMPLETE---	1	1	405173
#10 x 1" WOOD SCREW	4	4	815515
#10 x 1 1/2" SHEET METAL SCREW	19	19	810064
#10 x 2" WOOD SCREW	3	3	815507
#10 x 3" WOOD SCREW	4	4	815511
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	812054
3/8" x 2" LAG SCREW	1	1	800726
3/8" x 2" P.B.H.C.S. w/PATCH	1	1	812055
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	2	2	812057
3/8" FLAT WASHER	18	18	817410
3/8" HEX NUT	1	1	804053
3/8" LOCK NUT	6	6	804353

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

PLAYHOUSE ANGLE BRACKET: Shall be 1/8" x 1 1/4" Pickled and Oiled Hot Rolled Flat Steel. Playhouse Angle Bracket will have baked on polyester powder-coated finished after fabrication.

UPRIGHT, SUPPORT, COMBO FRAME: Shall be fabricated from 2" x 4" Nominal HDPE uv-inhibited Plastic Lumber. Density/L.F.:0.061.

FAUCET, FAUCET BRACE, COMBO COUNTER: Shall be precision cut from a single solid sheet of .50" thick UV-stabilized extruded high-denisty polyethylene with colors molded in. The material will have a denisty of 60lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1298. All edges shall have radiuses and all corners rounded for safe play.

M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

SPECIFICATIONS CONT'D:

FAUCET HANDLE, FAUCET HANDLE SPACER, STOVE KNOB: Shall be precision cut from a single solid sheet of .75" thick UV-stabilized extruded high-denisty polyethylene with colors molded in. The material will have a denisty of 60lbs/ft^3 and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1298. All edges shall have radiuses and all corners rounded for safe play.

BASIN: Shall be fabricated from 1/8" thick Polycarbonate, measuring 12 3/4" length, 10 3/8" width, and 4" tall with a 3/4" continuous mounting flange.

HARDWARE: All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

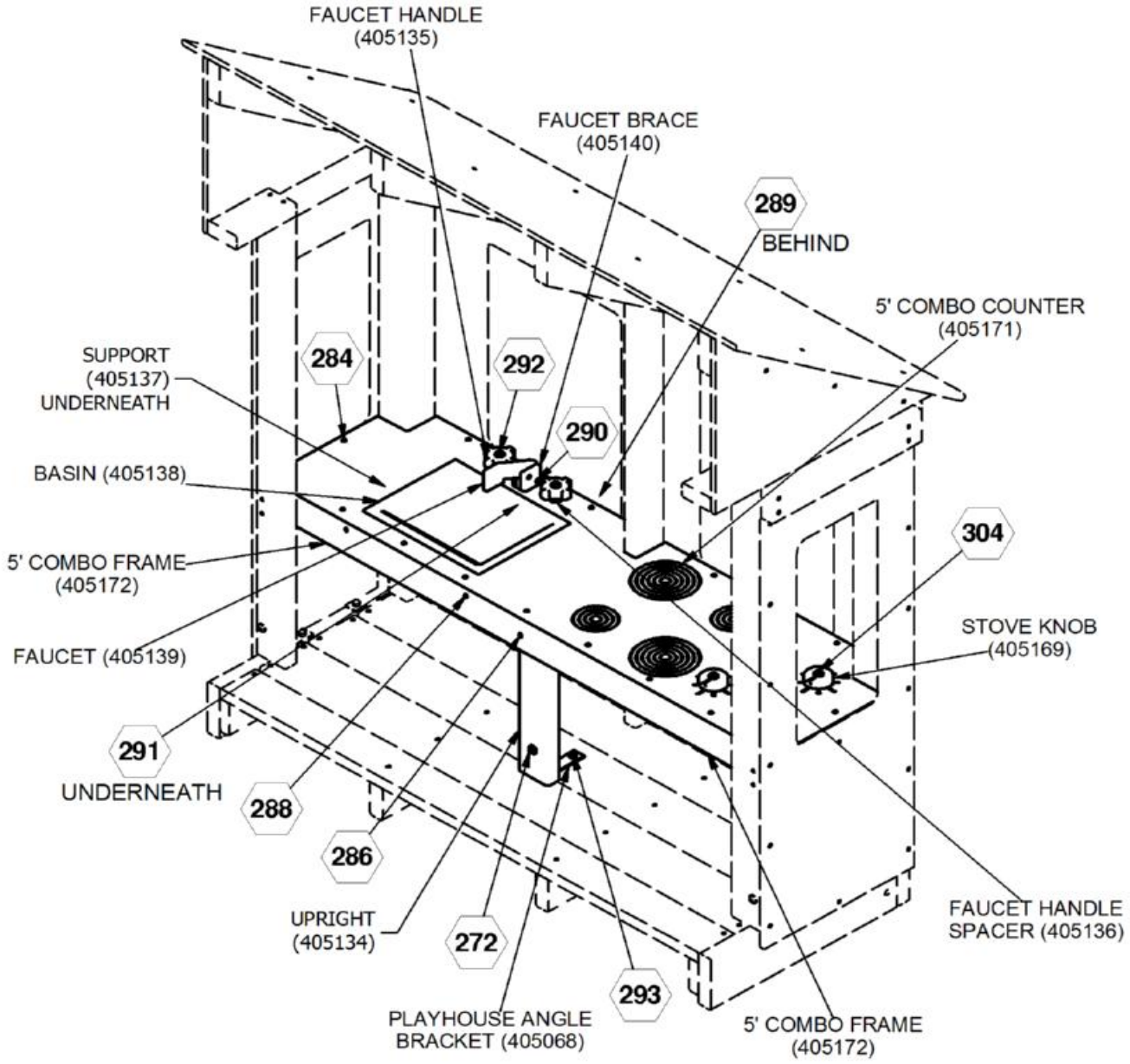
INSTALLATION INSTRUCTIONS:

1. Locate Upright and attach Upright to the Combo Frame using #10 x 2" Wood Screw. See Detail 286. **NOTE:** Make sure the top of Upright is flush with the top of the Combo Frame before attaching.
2. Attach Playhouse Angle Bracket to Upright using 3/8" x 2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Hex Nut. See Detail 272. **NOTE:** Make sure that the bottom of the Playhouse Angle Bracket is flush with the bottom of the Upright before attaching.
3. Attach Support to Combo Frame using #10 x 3" Wood Screw. See Detail 288. **NOTE:** Make sure the top of the Support is flush with the top of the top of the 5' Combo Frame before attaching.
4. Slide assembled Combo Frame into correct location and attach Combo Frame to Playhouse Framing using #10 x 2" Wood Screw. See Detail 286. **NOTE:** Make sure the top of the 5' Combo Frame and Support is flush with the top of the Playhouse Framing before attaching.
5. Attach Sink Support to Playhouse Side Panel and Playhouse Framing using #10 x 3" Wood Screw. See Detail 289.
6. Attach Faucet Brace to Faucet using #10 x 1" Wood Screw. See Detail 290. **NOTE:** Make sure the side and bottom of the Faucet Brace is flush with the side and bottom of the Faucet before attaching.
7. Attach assembled Faucet to Combo Counter using #10 x 1 1/2" Sheet Metal Screw. See Detail 291.
8. Attach Faucet Handle and Faucet Handle Spacer to the Combo Counter using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Lock Nut. See Detail 292. **NOTE:** Do not overtighten.
9. Attach Stove Knob to Combo Counter using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Lock Nut. See Detail 304. **NOTE:** Do not overtighten.
10. Attach assembled Combo Counter to Combo Frame and Playhouse Framing using #10 x 1 1/2" Sheet Metal Screw. See Detail 284.
11. Attach Playhouse Angle Bracket to Playhouse Platform using 3/8" x 2" Lag Screw. See Detail 293.
12. Plumb and level the entire assembly and tighten all fasteners.
13. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



= INSTALLATION DETAIL

FINISHED ASSEMBLY
M59014 SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

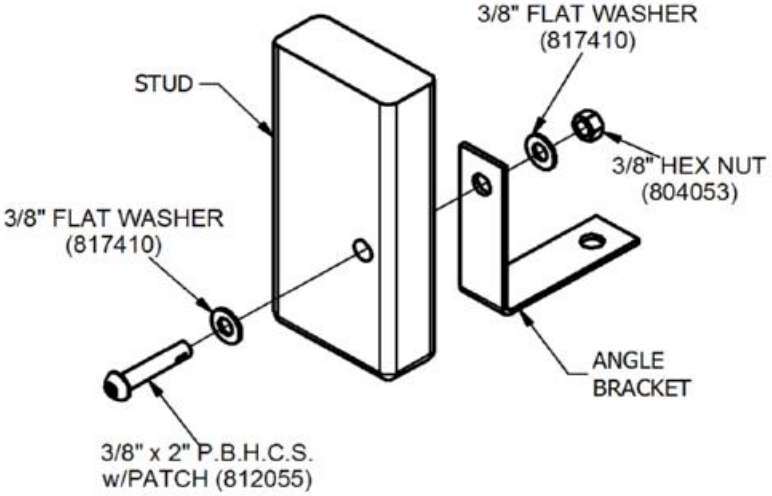
Issued/Revised: 11/15/16

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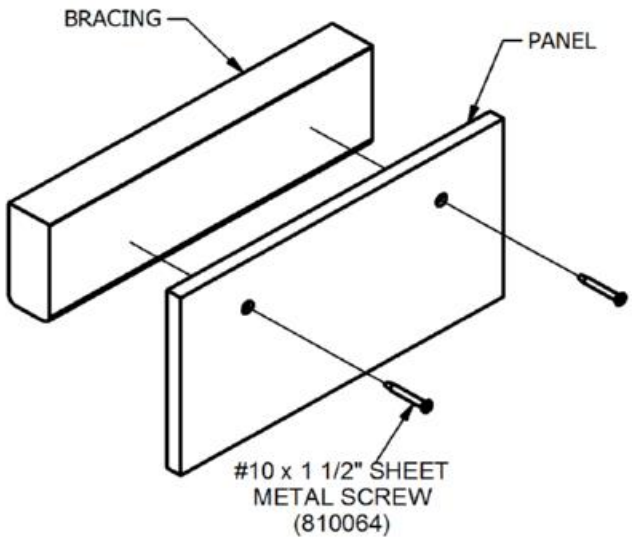
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M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

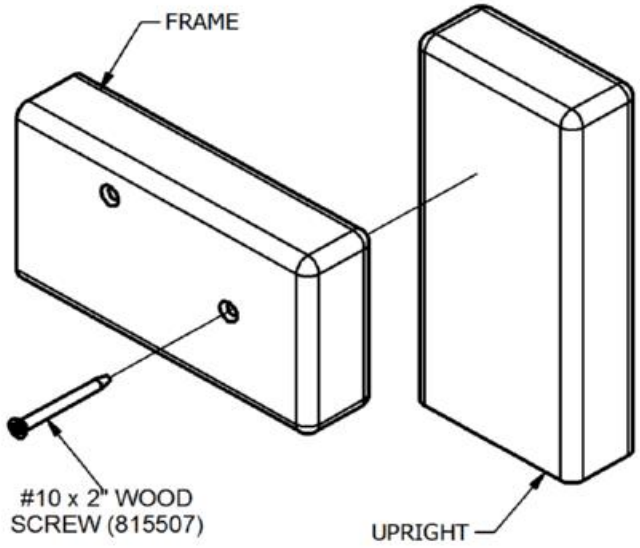
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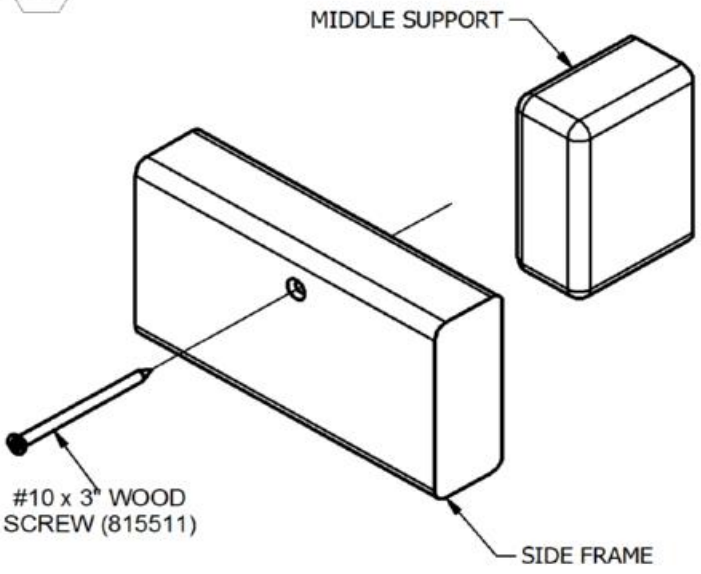
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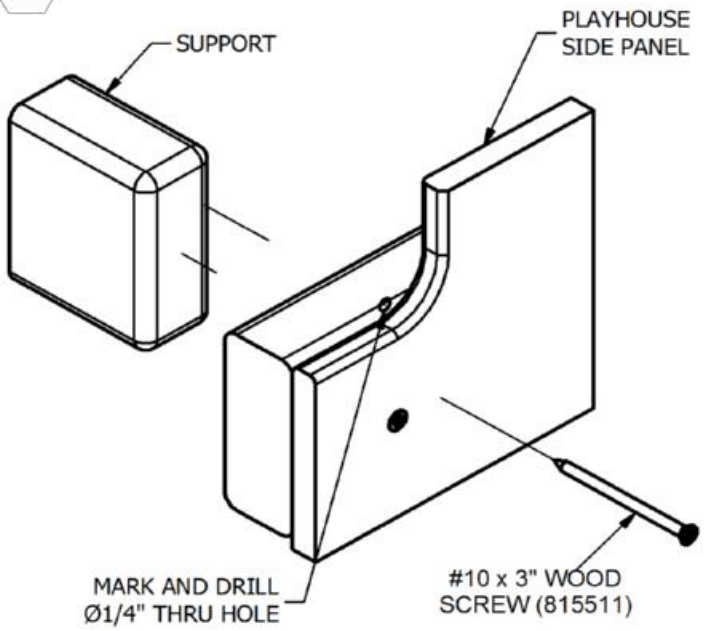


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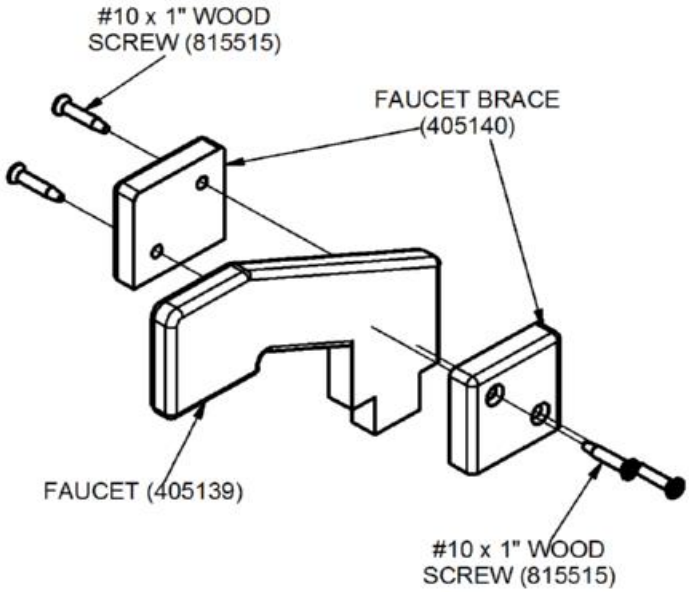


M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

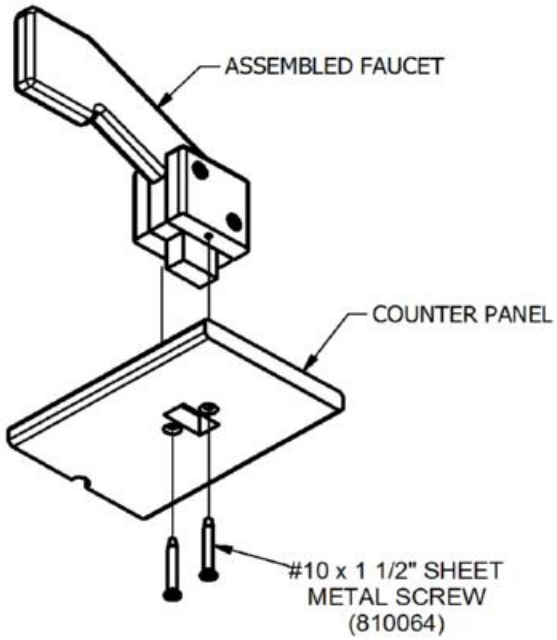
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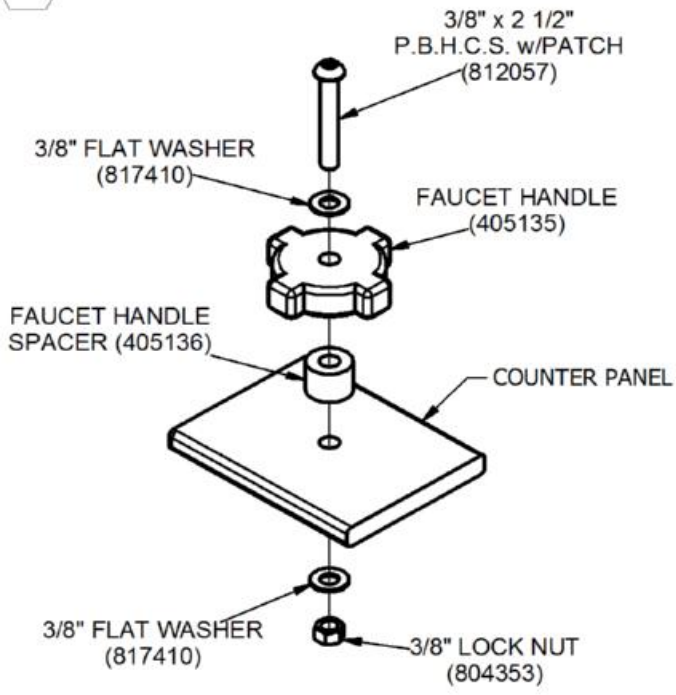
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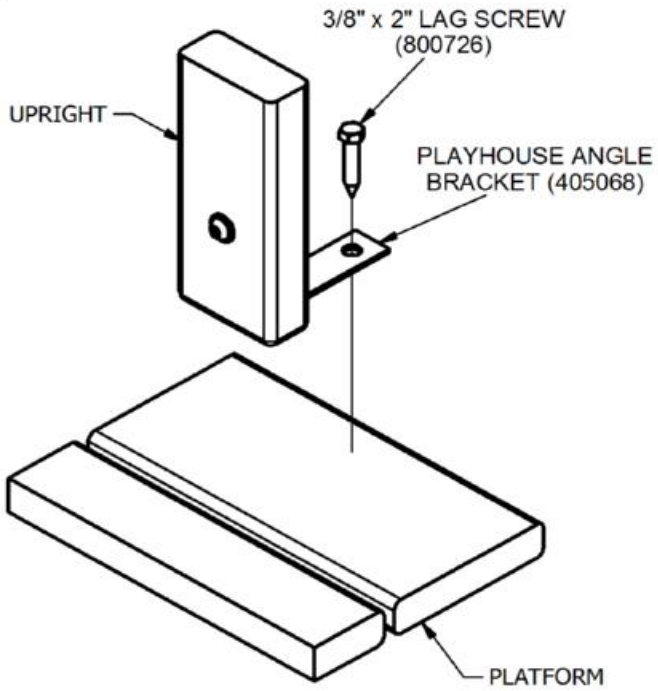


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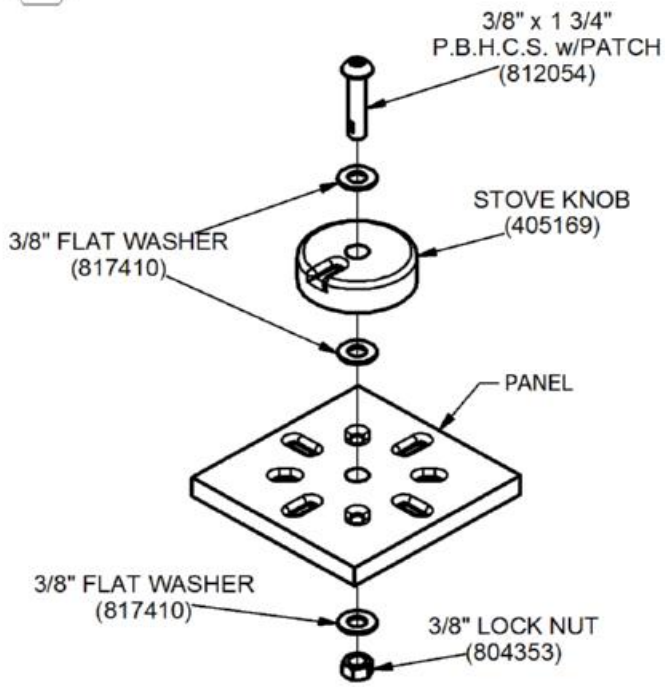


M59014 5' PLAYHOUSE SINK/STOVE COMBO
M59018 6' PLAYHOUSE SINK/STOVE COMBO

293

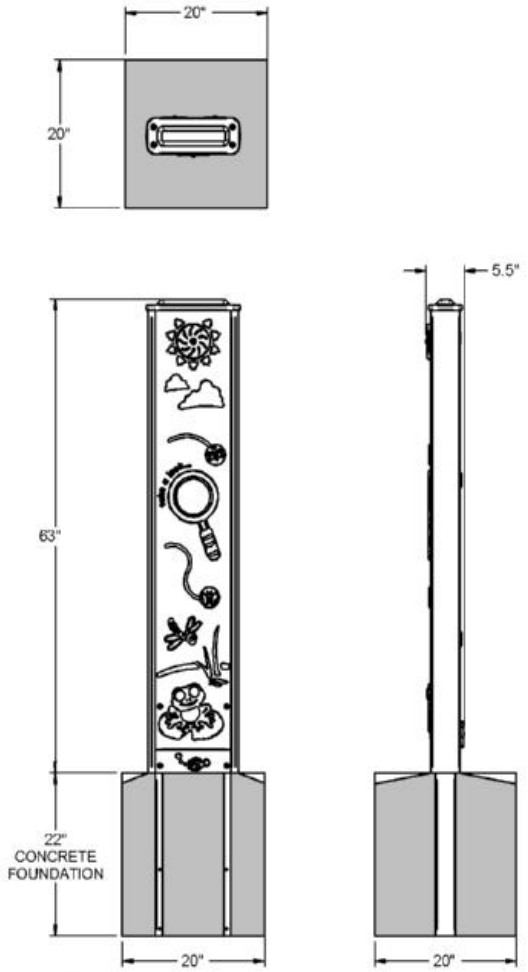


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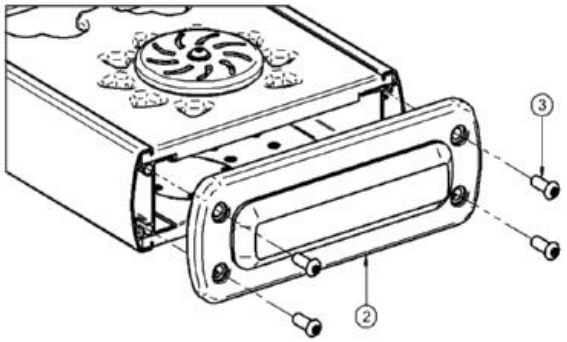
YP447 - Wildlife Totem - Installation Instructions

FITMMIN - Wildlife Totem



Prepare foundation detail as specified above.

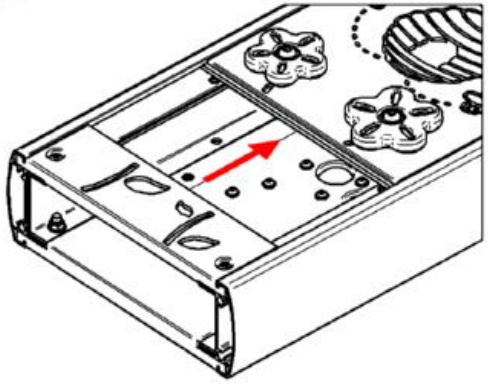
1.



i) Remove the Totem Assembly from the packaging and place the unit horizontally on the floor - use the packaging to lay the Totem on in order to avoid any damage to either face of the unit.

ii) Remove the Beam Cap using the Driver Bit supplied.

2.



Once the Beam Cap is removed, slide the Rear Panel out until it looks similar to the above image.



Parts List

Item	Code	Description	Qty
1	FME0684-B	Totem Foundation Bracket	2
2	FSA0323-A	Alu Edge Beam Cap - 292.5mm Panel	1
3	FSU0001-A	M10 x 25mm Button Head Bolt - Security Pin - SS	4
4	FSU0039-A	M8 Washer - SS (Form B)	6
5	FSU0071-A	M8 x 25mm Button Head Bolt - Security Pin - SS	6
6	FSU0087-A	M8 Nylock Nut - ZP	6
7	FXS0001-A	H5 Security Driver Bit	1
8	FXS0002-A	T40 Torx Security Driver Bit	1

Maintenance Inspection

FREQUENCY	WHAT TO DO
VISUAL INSPECTION (EVERY MONTH)	Identify any risks stemming from vandalism, intensive use or unusual weather
	Check for missing or broken parts
	Make sure that all protective covers are in place
	Inspect surfacing below and around equipment
FUNCTIONALITY INSPECTION (EVERY MONTH)	Check that the equipment, or the part concerned is operating correctly
	Check all fixings, joints and stability of the equipment and tighten or replace if necessary
	Check all parts for wear and tear and replace if necessary
	Thorough cleaning of equipment and any stainless steel parts with water and detergent
COMPREHENSIVE INSPECTION (EVERY 6 MONTHS)	All of the above plus:
	Inspect the anchoring system
	Inspect any moving, mechanical and electrical parts are operating correctly
	Check overall condition of any paintwork or galvanizing – repaint / touch up if necessary

Caution
Heavy

Total Weight:
23.5kg total

Modification	Date	Approved
New Drawing	05/10/21	LG
Updated to include new fixings	04/01/22	JC

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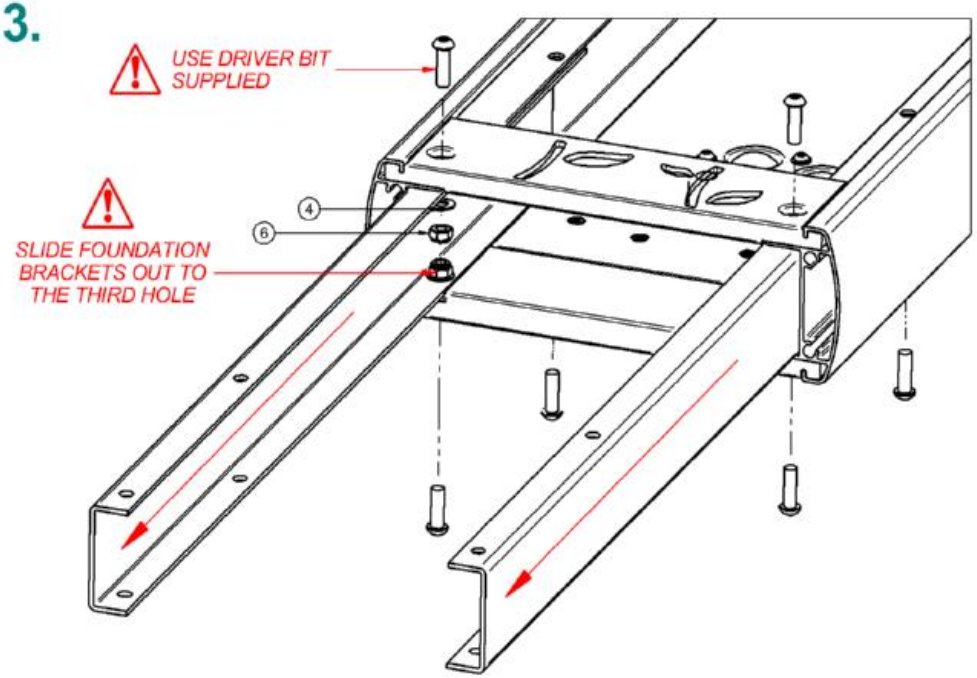
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All Dimensions in mm | 1 of 2 | Not To Scale

YP447 - Wildlife Totem - Installation Instructions

FITMMIN - Wildlife Totem

3.

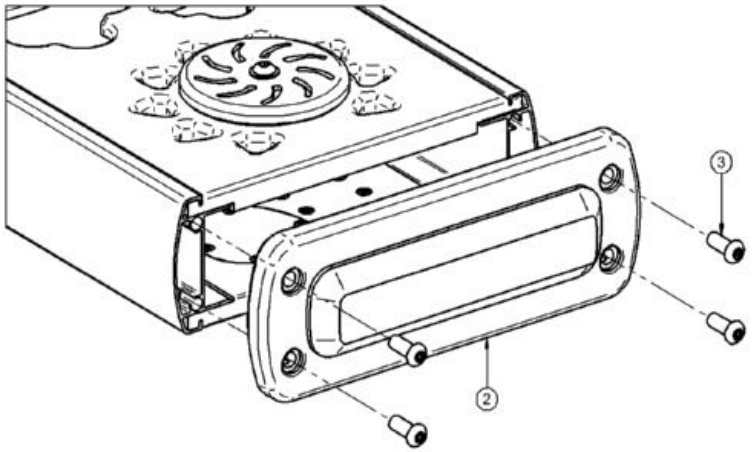


i) Remove the Fixings on the Lower Panels and the two fixings at the bottom of the front panel using the Driver Bit supplied.

ii) Slide each of the Foundation Brackets out of the Aluminium profile on either side of the Totem, ensuring the third set of fixing holes in the Foundation Brackets line up with the holes in the lower panels (see illustration).

iii) Secure by replacing the fixings previously removed from the Lower Panels and the fixings located slightly higher on the Front Panel

4.



i) Slide the Rear Panel back to its previous position.

ii) Secure the Beam Cap by replacing the previously removed fixings.

Modification	Date	Approved
New Drawing	05/10/21	LG
Updated to include new fixings	04/01/22	JC

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Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
2-5 or 5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" =1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Cassie Pruitt
Date:
9/17/24
Quote Number:
821-169540A

play&park structures
A PLAYCORE Company
544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

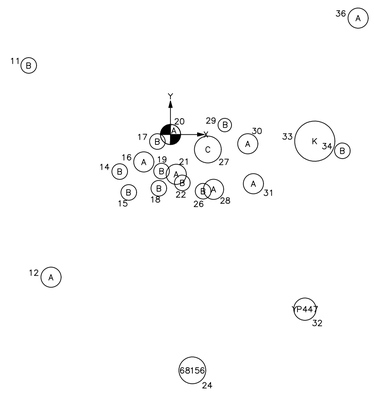
Total Play Components	22			User Capacity
Elevated Play Components	5			65-70
Elevated Play Components Accessible by Ramp	0	Req.	0	Critical Fall Height
Elevated Components Accessible by Transfer	4	Req.	3	8'-0"
Accessible Ground Level Components Shown	17	Req.	2	
Different Types of Ground Level Components	5	Req.	2	

SUPERmax PLAY SYSTEMS BigToys®

ultraPLAY A PLAYCORE Company

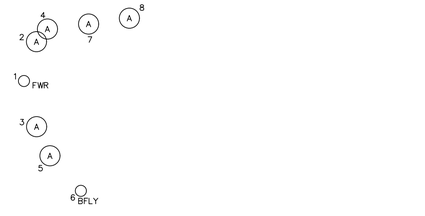
Order 4268631

ISO 9001 CERTIFIED











FOOTINGS ORDINATE TABLE			
HOLE	X	Y	DIAG
1	-52'-11 1/2"	-56'-7 1/2"	77'-6 1/2"
2	-52'-0 1/2"	-53'-8 1/2"	74'-9"
3	-52'-0"	-60'-0 1/2"	79'-5"
4	-51'-2 1/2"	-52'-9"	73'-8"
5	-51'-0 1/2"	-62'-2 1/2"	80'-5 1/2"
6	-48'-8 1/2"	-64'-9 1/2"	81'-1"
7	-48'-2"	-52'-4 1/2"	71'-1 1/2"
8	-45'-1"	-51'-11 1/2"	68'-9 1/2"
9	-19'-6"	-53'-1"	56'-6 1/2"
10	-15'-6 1/2"	-52'-7 1/2"	54'-10 1/2"
11	-10'-7"	5'-1 1/2"	11'-9"
12	-8'-11"	-10'-7 1/2"	13'-10 1/2"
13	-6'-6 1/2"	-25'-0"	25'-10 1/2"
14	-3'-9 1/2"	-2'-9"	4'-8 1/2"
15	-3'-1 1/2"	-4'-4"	5'-4"
16	-2'-0"	-2'-0 1/2"	2'-10 1/2"
17	-1'-0"	-0'-6 1/2"	1'-1 1/2"
18	-0'-10 1/2"	-4'-0"	4'-1 1/2"
19	-0'-8"	-2'-9"	2'-10"
20	0'-0"	0'-0"	0'-0"
21	0'-5"	-2'-11 1/2"	3'-0"
22	0'-10 1/2"	-3'-7 1/2"	3'-8 1/2"
23	1'-6 1/2"	-40'-5 1/2"	40'-6"
24	1'-7 1/2"	-17'-2"	17'-8"
25	2'-0 1/2"	-43'-5"	43'-5 1/2"
26	2'-5"	-4'-2 1/2"	4'-10 1/2"
27	2'-9 1/2"	-1'-1 1/2"	3'-0"
28	3'-2 1/2"	-4'-1"	5'-2 1/2"
29	4'-0 1/2"	0'-8 1/2"	4'-1"
30	5'-9"	-0'-8 1/2"	5'-9 1/2"
31	6'-2"	-3'-8"	7'-2"
32	10'-0"	-13'-0 1/2"	16'-5"
33	10'-9"	-0'-6"	10'-9"
34	12'-9 1/2"	-1'-2 1/2"	12'-10 1/2"
35	13'-9 1/2"	-38'-4 1/2"	40'-9"
36	14'-0"	8'-8"	16'-5 1/2"
37	14'-3 1/2"	-41'-4"	43'-8 1/2"

IF FOOTING CONTAINS A COMPONENT NUMBER, REFERENCE THE INSTALLATION MANUAL FOR COMPONENT FOOTING SPECS.

FOOTINGS TABLE			
TYPE	DIAMETER/SIDE	DEPTH	QTY.
A	1'-6" [45.72cm]	2'-6" [76.20cm]	15
B	1'-2" [35.56cm]	2'-6" [76.20cm]	12
C	2'-0" [60.96cm]	4'-0" [121.92cm]	1
D	2'-0" [60.96cm]	2'-6" [76.20cm]	5
J	1'-0" [30.48cm]	2'-0" [60.96cm]	1
K	3'-0" [91.44cm]	2'-6" [76.20cm]	1

It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
2-5 or 5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" =1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
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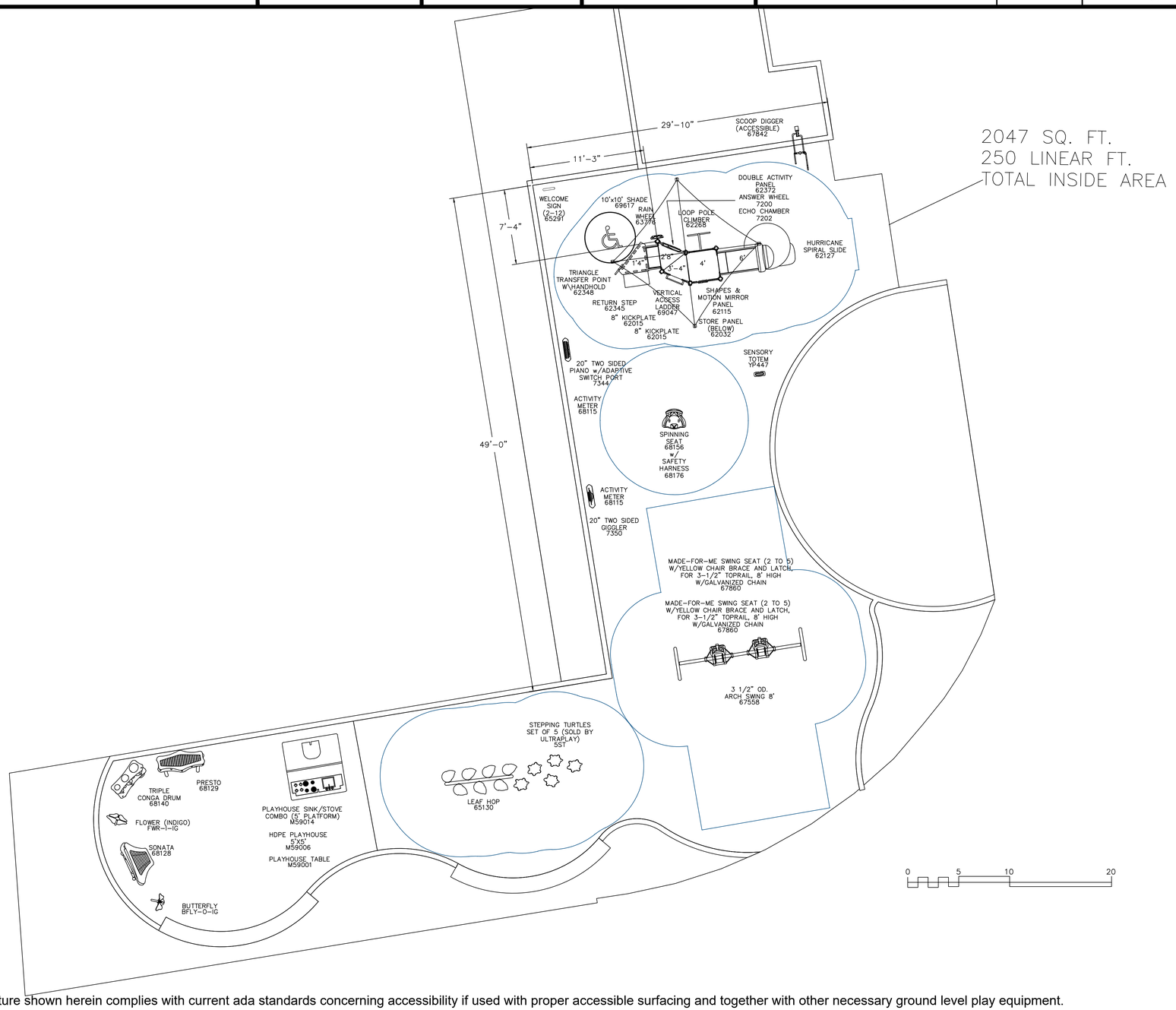
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SUPERmax PLAY SYSTEMS
BigToys
Freenotes Harmony Park™
A PLAYCORE Company
ultraPLAY
A PLAYCORE Company

Order 4268631

ISO 9001 CERTIFIED

This equipment is designed for children
2-5 or 5-12 years old



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455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
2-5 or 5-12

Minimum Area Required:
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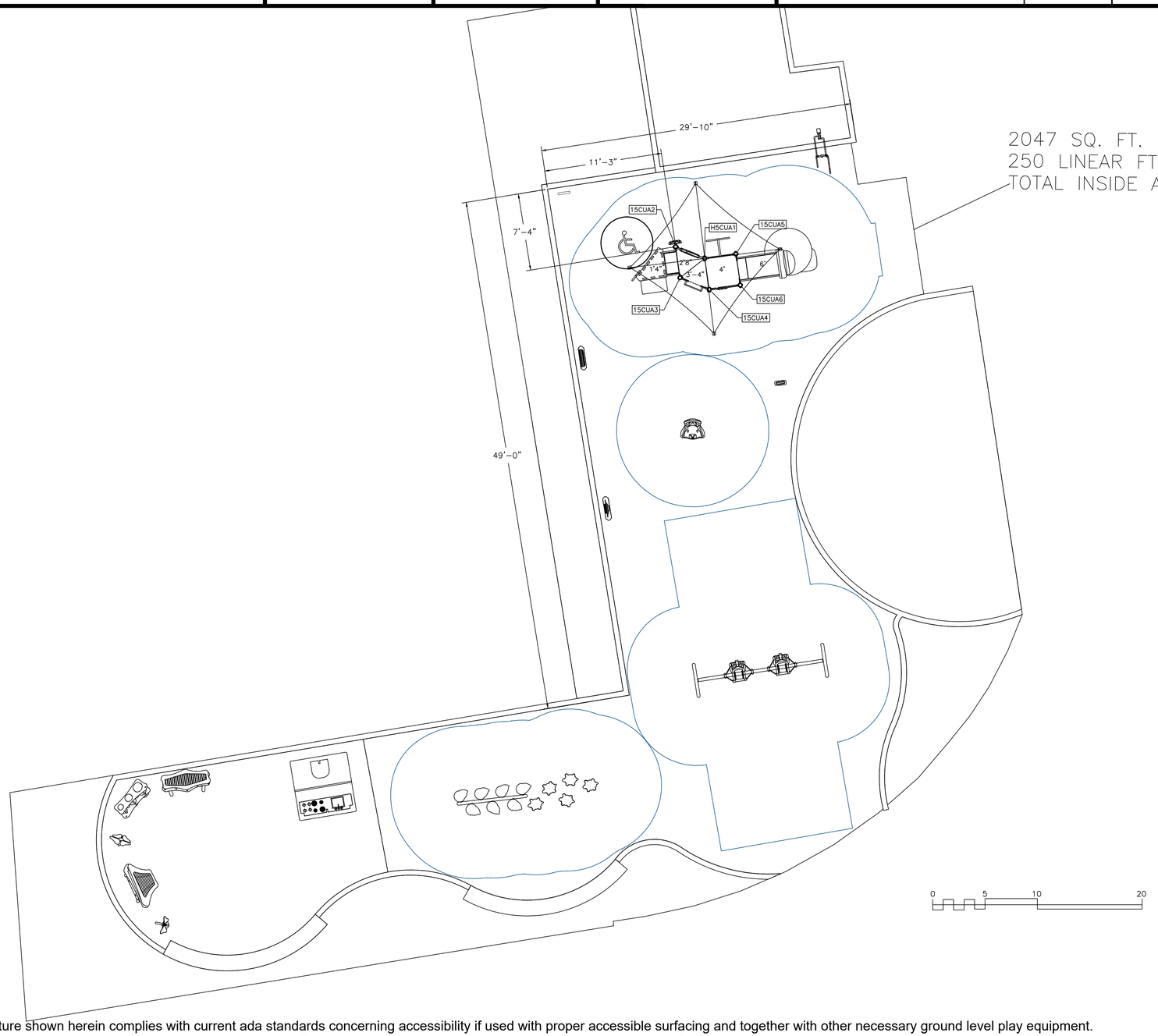
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SUPERmax PLAY SYSTEMS
BigToys
Freenotes Harmony Park™ A PLAYCORE Company
ultraPLAY A PLAYCORE Company

Order 4266631

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years old



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play&park structures
A PLAYCORE Company

Mound 1st-3rd
Quote # 821-170069A

9/17/2024

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Sensors

Color Wheel
Color Wheel:
The Color Wheel shall be fabricated from 1/2" high density polyethylene and 3/16" thick colored UV inhibitive acrylic

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

Harmony Music

Conga Trio
Conga Triple Front HDPE Panel and Conga Triple Back HDPE Panel:
Shall be precision cut from a single solid sheet fo .750" thick UV-stabilized high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedute C of ASTM

Conga Drum 6, Conga Drum 8, and Conga Drum 10:
Shall be constructed of 6" plastic pipe, 8", and 10" plastic pipe, and molded plastic lid.

Conga Triple Ring Assembly:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel. The Conga Triple Ring Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Conga Triple Upright Support:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel The Conga Triple Upright Support shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Spacer with Inserts:
Shall be fabricated from 1.315" galvanized pipe and 1.120" threaded insert. The Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

Allegro- Set of 7
Allegro (Set of 7) Package:
Each is made with heavy duty, anodized aluminum. Each instrument is supplied with four durable mallets with coated steel cables

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Rotationally Molded Plastics
All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Rotomolded Components

Double Slides - Roto-Molded
Slide foot buck is fabricated from 2 3/8" O.D. galvanized steel tubing and 12 gauge stainless steel plate. Cross Bar is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing. Barrier assembly is fabricated from 1 5/16" O.D. 14-gauge galvanized tubing and 1 1/4" O.D. galvanized end cap. Collar Plate is fabricated from 1/8" sheet steel and 2 1/8" O.D. steel collar. All metal parts shall be coated

with a custom formula TGIC polyester powder coating. Slide sections and Visor Hood shall be rotationally molded from an extremely durable double-walled low density polyethylene with (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2< Category 3, and has a minimum 1/4" wall thickness (3/16" for Visor Hood). Steel inserts are molded in to receive fastening bolts. Slide side rails are a minimum 12" high from the inside slide surface, and slide bed-way is designed to have a 20" minimum width.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Deck Components

Return Step
Return Step
The Return Step shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Return Steps shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

General Specifications of Materials

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Transfer Station (Triangle)
The Platform and Step shall each be made from 12 gauge punched steel with a protective p&o finish. The Platform and Step shall each be a one-piece welded assembly finished with the matte PVC coating. The step shall have a minimum of 355 square inches of area per step and shall descend in increments of 8" or less, as specified by the Americans with Disabilities Act (ADA). Handhold and Platform Supports shall be fabricated from 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and 1 ¼" (14 gauge) pipe cap. Handhold and platform supports shall be all-welded assemblies and shall be coated with a custom formula of TGIC polyester powder.

General Specifications of Materials

Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Metal Components

Origami Center Entryway
PIPE ADAPTOR:
All Pipe Adaptor castings shall be fabricated from die cast aluminum

ORIGAMI ENTRYWAY METAL BARRIER ASS'Y:
The punched steel face is to be made from 11 gauge, punched steel with a protective p&o finish. All frame assemblies shall be an all weld assembly fabricated from 1.315" x .083 (14ga) and 1.029" x .072" (15ga) galvanized pipe. The assembly shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 -

87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Deck Components

Luminous Ascent
Climbing wall, Stratascend and Button Step:
shall be ¼" wall thickness double wall construction, color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). Aura tab shall be 3/8" stainless steel.

Climbing Wall Supports:
Shall be fabricated from .120 (11gauge) hot-rolled flat steel, and 2-1/2" x 1-1/2" black steel tubing. Supports shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

Sail Wall Curved Upright: Shall be made from 2 3/8" O.D. 14-gauge galvanized steel tubing. All parts have a baked on polyester powder-coated finish after fabrication.

Big Rope:
Shall be 3" diameter and the load required to break or extract cable from connection is to be greater than or equal to 6000 LBS. With 15/32" S.S. straight d shackle with no-snag pin to the end of each cable (2 PLCS).

Hand Rope:
Cable shall be 18mm diameter UV protected polyimide (nylon) rope cable with a calculated breaking load greater than or equal to 79.82kN: 6 strands each containing 19 steel reinforcing (0.6mm) strands within a polyamide sleeve wrapped around a reinforcing steel core containing 6 strands each containing 19 steel reinforcing (0.4mm) steel strands; each end of the cable having a junction loop attached onto the cable with a finished aluminum sleeve and lined with a stainless steel wear bar.

Overhead:
Spine support shall be fabricated with 2 3/8" O.D. 14-gauge galvanized steel tubing and 1 5/16" O.D. 14-gauge galvanized steel tubing for round rungs. All parts are an all welded construction with a baked on polyester powder-coated finish after fabrication

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

HDPE Components

Inclined Wall Climber
Inclined Wall shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play. Frame Assembly shall be an all welded assembly fabricated from 1.315” O.D. galvanized steel tubing (.083” wall thickness). This assembly shall have a powder coat finish.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Deck Platforms
Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Metal Components

Origami Barrier

ORIGAMI BARRIER shall be fabricated from 12 gauge (.109) hot rolled steel. The enclosure panel frame shall be fabricated from 1-5/16" x 14 gauge (.083") wall. The Origami Barrier shall be an all welded assembly powder coated after fabrication with a custom formula of TGIC polyester in conformance with the specifications outlined herein.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

HDPE Components

Space Shuttle Launch Panel
Clamps
All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installa-tion and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi
Yield Strength - 26,000 psi
Shear Strength - 40,000 psi
Elongation - 8 %

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 100% at 400 degrees Fahrenheit.

HDPE Panels
Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

General Specifications of Materials

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Deck Platforms
Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Sensors

Fun Mirror
Mirror Panel:
The mirror panels shall be fabricated from 3/16" thick acrylic with UV inhibitive reflective coating.

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Other Swings

TweenMates Swing
SWING HANGERS:
All Swing Hanger castings shall be cast of malleable iron.

BUDDY SEATS:

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

SELFIE SWING CHAIN:
Shall be #80 4/10 straight link coil galvanized chain. The chain is chemically washed and completely submerged in a special heatactivated primer and allowed to dry.

LARGE FRAME WELDMENT:
All frame assemblies shall be an all weld assembly fabricated from 1.315 O.D. schedule 40 pipe, 1.029" x 0.0.72" (13 gauge) wall pipe stob, 12 ga. pickled and oil hot rolled flat steel cap, .752" aluminum bronze bushing pressed in 9.25" x 4.375" hot rolled steel tab.. The frame ass'y shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

APPROPRIATE AGE LABEL & WARNING LABEL:
Shall be fabricated from 4mil vinyl with poly carbonate overlay.

D SHACKLE w/NO-SNAG PIN:
Shall be fabricated from 316 stainless steel.

POWDER COAT FINISH:
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage Alkaline bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a rich primer that forms a rust-resistant barrier layer over each weld prior to application of the color powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 100% at 400 degrees Fahrenheit.

HARDWARE:
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandalresistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment.

Therapeutic Swing

Made-for-Me Swing Seat
All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum

shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

Arch Swing Structures

Arch Swing - (3 1/2" O.D. Toprail)
Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will

prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Steel
The posts shall be 5" outside diameter, 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

play&park structures®

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OWNERS MANUAL



Visit www.playcore.com/shipment or use the QR code to give feedback about the condition of the shipment, quality of the product, and installation feedback.
Please include pictures.

This document includes;

- Warranty Information
- Ground Plan
- Hardware Listing
- Assembly and Installation Instructions

IPEMA MEMBER · ASTM INTERNATIONAL · ISO 9001

playandpark.com | 800.727.1907

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Dear Play & Park Customer,

Thank you for choosing to purchase and install a Play & Park Structures play system. We appreciate the confidence and trust you have placed in our company.

Your Play & Park Structures Installation Guide is enclosed. We designed this manual specifically for the products you have purchased. Included in this manual you will find the following documents:

- Product Installation Instructions
- 2-D Top View Drawing specific to your structure
- Ground Plan

If you have any questions concerning your new equipment, you can reach your recreation consultant by calling 1-800-727-1907. To contact a Play & Park Structures customer service representative, you may call 1-888-404-5737 or reach them online by sending an email to: customerservice@playandpark.com

For more information on Play & Park Structures products, please do not hesitate to call us, or visit us online at www.playandpark.com.

Thank you for your business; we look forward to working with you on future playground equipment projects!

Sincerely,

Play & Park Structures

Safety Guidelines

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures STRONGLY recommends that you follow these Safety Guidelines in conjunction with conducting periodic maintenance inspections using the accompanying Playground Maintenance Checklist.
When installing, always consider local conditions and codes. Good common sense works hand-in-hand with the instructions.

LOCATING YOUR PLAY STRUCTURE

Comply with the following when choosing the location for your new equipment:

- Equipment should be placed to eliminate conflicting traffic patterns. As a general rule, allow at least 6' of free space around the entire structure, EXCEPT for slide exits, which require a distance X equal to highest point of sliding surface with a minimum of 72" and maximum of 96" from the edge of the slide. Example: a Slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of and behind them for safe circulation. Example: a Swing with a 8' high beam requires 16' of free space in front, and another 16' behind it, for a total of 32'. These minimum areas should be filled with the appropriate resilient surface material. See below for resilient surfacing recommendations.
- If your equipment includes any metal slides, they should be positioned in a shaded area, or at least positioned to avoid the sun's direct rays.
- Never overlap the safety zones of adjacent equipment. All separate play equipment must have its own safety zone, and these cannot overlap. So, if you have an existing structure with a slide exit oriented toward your new one, add your minimum safety zone to that of the existing slide to determine how far away you need to be.
- Never install playground equipment near, around, or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

CHOOSING RESILIENT SURFACING MATERIAL

Playground equipment must be installed on a soft, resilient, energy-absorbing ground surface.
NEVER INSTALL PLAY EQUIPMENT ON CONCRETE, ASPHALT, OR GRASS. A fall on a hard surface from even a low platform of 3' high can result in serious injury to the user. Refer to CPSC and ASTM F1292 for recommended surfacing depths and requirements.

Tip: If your surfacing material is of the loose variety, checking for proper depth over time can be made easy by applying a non-removable florescent tape or paint in a bright color at the proper level on each post. Thereafter, as the resilient surfacing material compacts or washes away, the person responsible for regular maintenance inspections can easily see it must be replenished as the marks become visible.

AFTER THE EQUIPMENT IS IN USE

- Never add components not intended for use with this product.
- Never install other play equipment, fencing, landscaping, etc., which encroach upon the safety zones of this equipment.
- Check to make sure that there are no overhead obstructions within the use zone of the playground equipment that are not part of the play structures (example: tree limbs). Any overhead obstructions should be at least 84" above each platform or designated play surface or 84" above the pivot point of swings. All overhead utility line clearances above the use zone area should comply with all local, state and national codes.
- Regularly inspect and maintain your playground equipment and its surrounding area. Proper maintenance of Play & Park Structures equipment includes using the accompanying Playground Maintenance Checklist to identify areas requiring repairs or replacement, and barricading the equipment to prevent use while corrections are being made.
- If your playground equipment includes any wood components, bolts may need to be re-tightened after initial use due to wood shrinkage. Check and re-tighten all fasteners after the first few days of use, and again after the first 3 weeks of use. Thereafter, exercise normal maintenance procedures. Using a thread-locking compound on the threads of bolts can help prevent persistent loosening.
- 'S' hooks must be completely closed. Replace all worn 'S' hooks, and never re-use 'S' hooks.
- Pipes should never be allowed to turn. In the case of wood playground equipment, make sure all collars are snugly flush against the inside of posts with set screws tightened and wood screws flush against the outside of the collar, and all flat head bolts and set screws are tight. In the case of steel playground equipment, check set screws for tightness.

For specific information regarding playground safety and your responsibilities as the owner of this equipment, please contact the Consumer Product Safety Commission (CPSC), Washington, DC. for the latest guidelines for your play area and this equipment.

If any conditions or damages are discovered in violation of these Safety Guidelines or the accompanying Playground Maintenance Checklist, the play equipment should be barricaded immediately and children should not be allowed to use it until the conditions are corrected.

Introduction to Installation Instructions

Revised 03.29.16

IMPORTANT! Please read the entire Installation Instructions packet before beginning the installation.

Play & Park Structures has designed the SuperMax, DuraMax, totmax, Skyline, Boulderscapes and Horizons Play Systems to take advantage of all Consumer Product Safety Commission (CPSC) Guidelines and ASTM standards in force at the time of purchase in an effort to help reduce the chance of playground accidents. However, because studies have shown most playground injuries result from accidental falls, you, as the new owner of this equipment, are responsible for providing and adequately maintaining ***resilient play surfacing*** under and around all playground equipment. Please refer to the accompanying Safety Guidelines as well as CPSC guidelines and this document for examples of such surfacing.

We would like to provide the following suggested guidelines for your play environment:

- Refer to the Footing Diagram and note the Minimum Area Required shown for this structure. This area must be filled with adequate resilient play surface material, and must be clear of all obstacles, including but not limited to trees, curbing, sidewalk, fence, other play equipment, rocks and landscaping, etc.

- Acceptable play surfaces include sand, wood mulch, fine gravel or ground belt-less tires, if installed at the appropriate depths per CPSC guidelines for play surfacing.

- When using sand, wood mulch, or ground belt-less tires, a minimum of 6" depth is recommended by the CPSC. Play & Park Structures recommends an additional 4", for a total of 10", to combat the fast compacting characteristics of these materials. Surfaces must be checked at least weekly for compacting, which reduces resiliency significantly.

- Paved surfaces such as asphalt, concrete, gravel or sod are not acceptable for use under playground equipment, or anywhere within the stated Minimum Area Required.

- Close supervision of children playing on or around the structure is strongly recommended, along with classroom and/or home instructions on acceptable behavior on the playground equipment. The full supervision of playgrounds is the responsibility of the owner once the play structure has been properly installed.

TOOLS REQUIRED:

Play & Park Structures supplies the special bits required to fasten the "tamper-resistant" bolts. You will need common tools such as wrenches, Allen key set, drill, string line, level, mallet, shovels, post hole digger, pry bar, washable felt tip marker and a tape measure.

INSTALLATION GUIDELINES:

1. Compare all parts received to the packaging list. Notify Play & Park Structures immediately of any missing parts. We are not responsible for parts discovered missing over 10 days after receipt of the shipment.

2. Refer to your Footing Diagram to ensure this structure will fit into your actual site area. Note the Minimum Area Required measurements to determine clear space required. A minimum of 6' clearance is required between any obstacles and your structure. EXCEPT for slide exits, which require a distance X equal to the highest point of sliding surface with a minimum of 6' and a maximum of 8' from the edge of the slide (example: A slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of its exit).

3. Site selection should include considerations of what is a safe and appropriate play area:
   a. A level and clear site is ideal, free of power lines or electrical equipment.
   b. Do not install play equipment near any bodies of water.
   c. If adjacent to a street with traffic, ensure adequate fencing acts as a barrier to children running into danger.

4. Site layout should include accurate measurement and marking of all footings prior to any installation. Use the dimensions shown between footings on the Footing Diagram to plot out the actual footprint of the play structure before doing any digging. Also, locate any free-standing play equipment in the same way, providing the necessary clearance between the equipment as well as any fences, trees, etc. Ensure at this time that you have enough total space for the equipment to be installed.

5. Excavate holes as shown in the Footing Diagram using a string line. An optional string line level is very helpful. If a level and clear site is not possible, adjust the depth of the footings to maintain a minimum depth of 18 in. for support posts at the lowest grade. NOTE: if soil conditions are very loose or otherwise unstable, a larger diameter footing may be required. Consult with local contractors for appropriate recommendations.

6. Begin your SuperMax, DuraMax, totMax , Skyline, Horizons, and BoulderScapes Play Systems installation by erecting the decks as shown within the following instructions.
   IMPORTANT: Do not concrete product until installation is complete!
   Once all decks are installed, components such as slides, climbers, etc., can be connected per their respective assembly instructions. Note that connecting components between decks such as Horizontal Ladders, Crawl Tunnels, Trapeze Beams, etc., should be installed concurrently with the decks to ensure they meet accurately.

7. CPSC guidelines mandate that there should be no gaps present in the playground equipment which fall between 3 ½" and 9". The positioning of certain components by the installer can affect this criteria, so you should always measure distances created when attaching components by the installer, which can cause entrapment of a child using the equipment. Also, ASTM requires that no more than 2 threads of bolt can protrude from the nut. Any excess threads should be filed down and made smooth to the touch.

8. When concrete is poured, be sure to keep the top 4" below the grade, and sloped away from the post to promote good water drainage. Wash off any concrete, which may have splashed onto the post before it dries. Allow all concrete to harden a minimum of 48 hours before using equipment.

SAFETY DURING INSTALLATION:

1. Before doing any excavation, inquire about any existing underground utilities.

2. Do not leave the job site unattended without making sure that all fastening hardware on all equipment are tightened and all Drive Rivets are in place to prevent clamps from moving, in case of unauthorized use. **PLAY & PARK STRUCTURES CLAMPS ARE NOT DESIGNED TO SUPPORT HUMAN WEIGHT WITHOUT THE DRIVE RIVETS INSTALLED, AND SUCH USE COULD CAUSE INJURY TO THE USER AND/OR DAMAGE TO THE EQUIPMENT.** It is also strongly recommended that all installation areas be roped off with clearly marked warning signs posted. Any open footings should be covered with plywood or other suitable material. Even during installation, it has been found that children will use the unattended equipment, thereby risking accidents.

3. The installation area should remain roped off for at least 48 hours after the last concrete footer is poured. Children should not be allowed to use the equipment during this period so that concrete has a chance to fully set.

4. Do not attach swing chains, trapeze rings or similar moving components until after all construction is complete and resilient surfacing material has been installed. Remember that any equipment, which appears to be complete and functional will invite unauthorized use regardless of its actual state of readiness.

Finally, if you should have any questions regarding the proper installation of this equipment, please contact Play & Park Structures at:

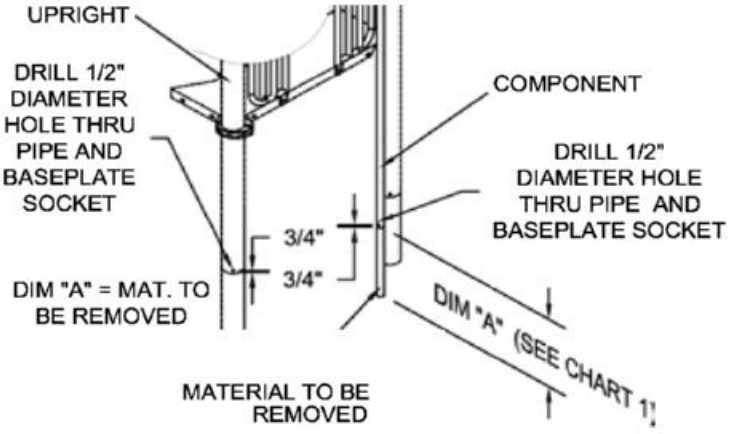
544 Chestnut Street, Chattanooga, TN 37402
TOLL Free: 800.727.1907 FAX: 423.425.3172
EMAIL: customerservice@playandpark.com
Visit our website: www.playandpark.com

play&park structures

60855 SURFACE MOUNT INSTALLATION INSTRUCTIONS FOR PARK STRUCTURES

ISSUED/REVISED: 08/07/14

NOTE: 2", 8", 10" LENGTH INDICATES THE SURFACING DEPTH. ALL COMPONENTS ARE SHIPPED AS STANDARD 30" INGROUND LENGTH. (20" DEEP HOLES & 10" SURFACING)



IMPORTANT: CHECK ALL GROUND MEMBER LOCATIONS TO COMPENSATE FOR SLOPE ***BEFORE*** CUTTING!

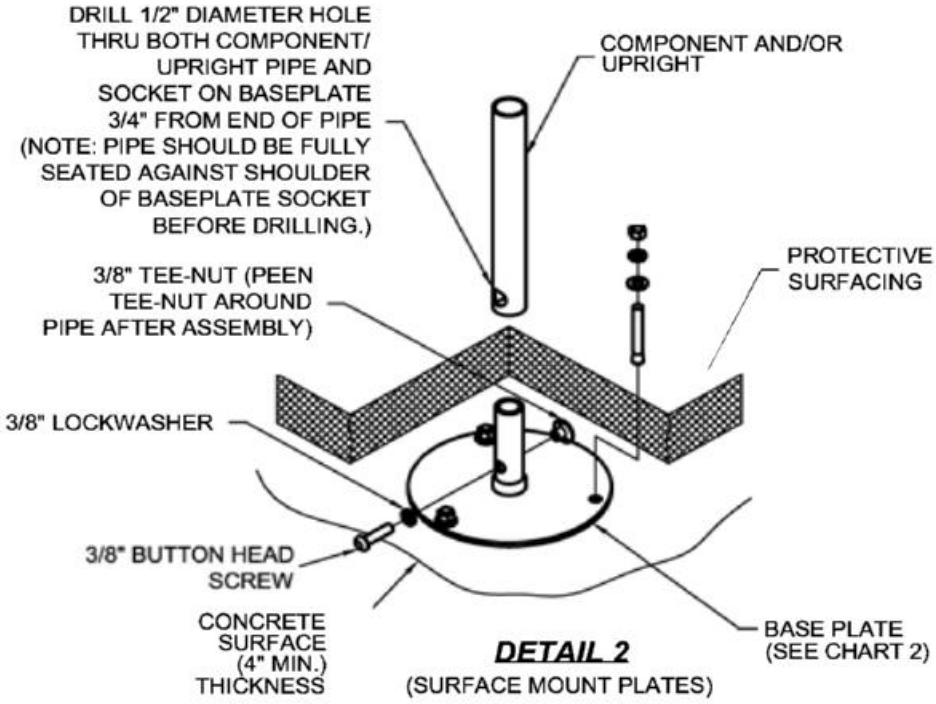
CHART 1

SURFACING DEPTH	MATERIAL TO BE REMOVED	
	W/OUT EXT.	W/6" EXT.
2"	28 11/16"	22 11/16"
8"	22 11/16"	16 11/16"
10"	20 11/16"	14 11/16"

NOTES:
1. DIM "A" = MATERIAL TO BE REMOVED.
2. SOME INGROUND COMPONENTS REQUIRE EXTENSIONS. REVIEW YOUR STANDARD INSTALLATION SHEET IF EXTENSIONS ARE REQUIRED. ADJUST MATERIAL TO BE REMOVED ACCORDINGLY.
i.e. A COMPONENT REQUIRING 6" EXTENSIONS, AND IF SURFACING DEPTH IS TO BE 2", MATERIAL TO BE REMOVED WILL BE 22 11/16"

DETAIL 1

(FOR SURFACE MOUNT INSTALLATIONS)

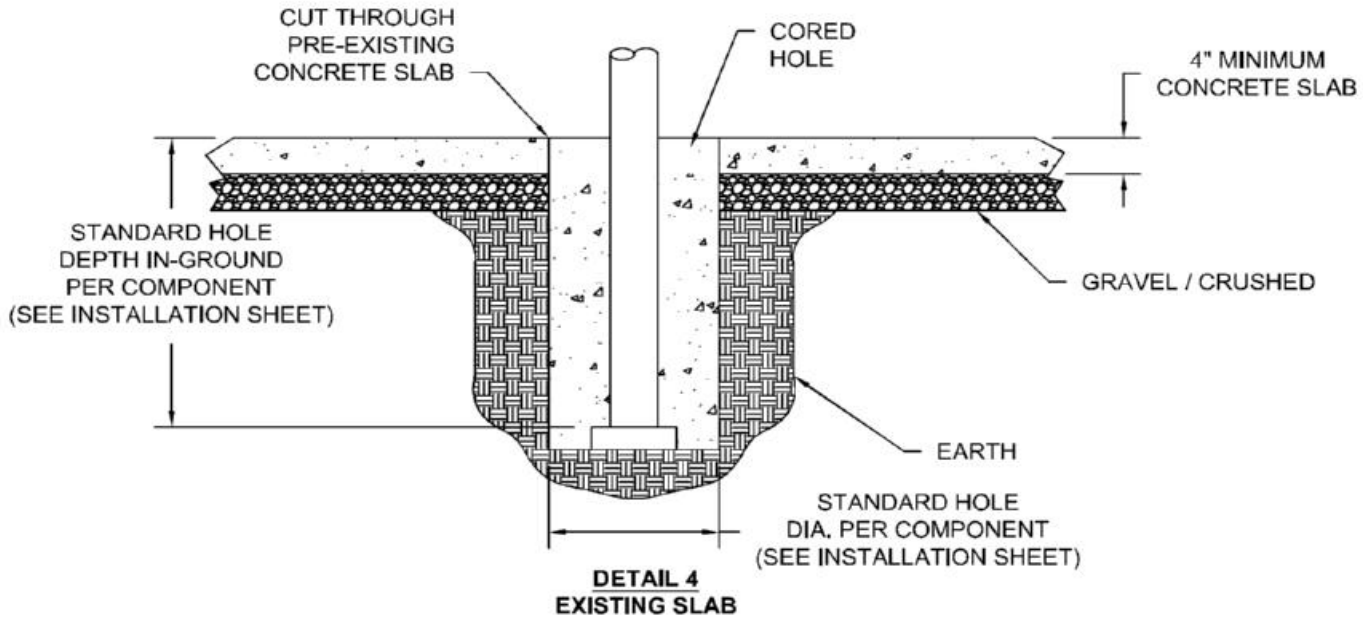


DETAIL 2

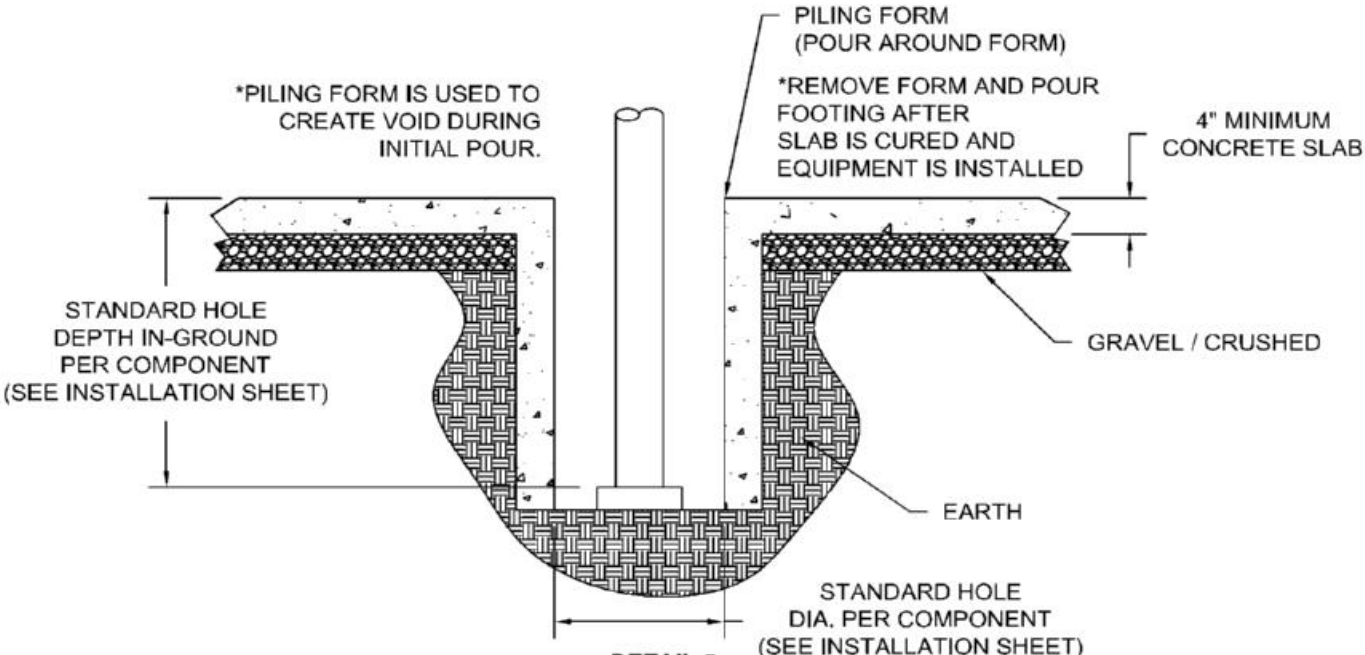
(SURFACE MOUNT PLATES)

CHART 2

NUMBER	O.D.	BASE PLATE
404765	1.029"	404764
60855	1 5/16"	152850
60856	1 5/8"	152851
60857	1 7/8"	152852
60858	2 3/8"	152853
60859	2 7/8"	152854
60860	3 1/2"	152856
60861	5"	152855



DETAIL 4
EXISTING SLAB



DETAIL 5
NEW SLAB

SURFACE MOUNT INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Concrete requirements for Suface Mount shall be 4" minimum thickness w/ 3000 psi.
3. For Surface Mount, remove required length of component and/or upright as indicated in **DETAIL 1**. See ***CHART 1*** for the material length to be removed. (Required for 2", 8" or 10" surface mount only.) ***Note:*** Debur and remove any sharp edges on part after cut is made.
4. Drill 1/2" diameter hole thru component/uprights and baseplate socket 3/4" from end of pipe. The pipe should be fully seated against neck of socket before drilling holes.
5. Attach Component to base plate as shown in **DETAIL 2.** See ***CHART 2*** for the specific base plate required for the diameter pipe being used. (Required for 2", 8" or 12" Surface mount only.)

IMPORTANT: Some components such as slides, chinning bars, nets, climbers, etc. may require "cored" holes to help eliminate movement when installed. Refer to Ground Plan configuration to determine if "cored" holes are required.

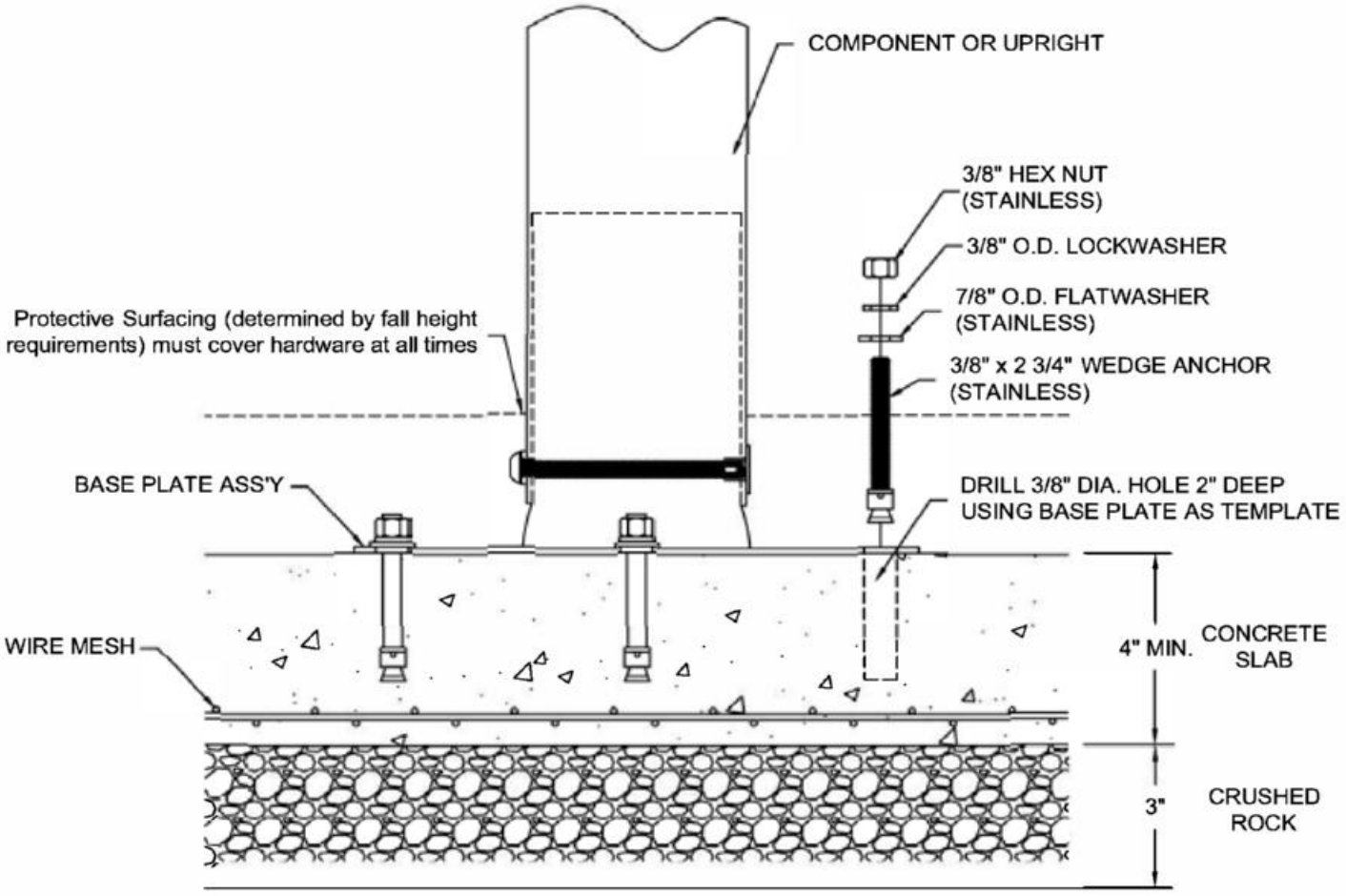
NOTE: If concrete slab is pre-existing and a cored hole is required it must be drilled through exisitng concrete to allow for concrete footing. Review your standard installation sheet for correct size and location of cored hole. See Detail 3.

NOTE: Cored holes can be created prior to concrete pour by using piling forms to create a void when pouring. See Detail 4.

NOTE: If a base plate interferes with an insert required for a below deck component that base plate will require a notch to be applied in the field.

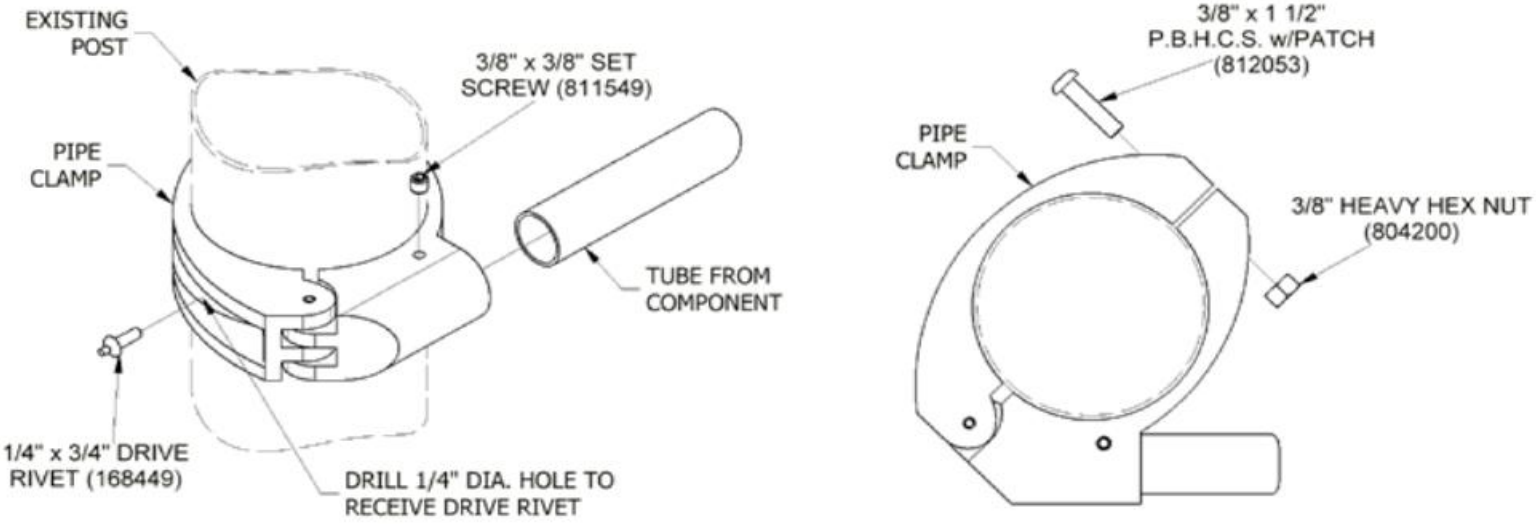
CONCRETE SPECIFICATIONS

1. Depth of concrete must be 4" minimum with wire mesh reinforcement.
2. Base shall be 3" crushed rock over compacted subgrade.
3. Minimum 7 days cure-full cure after 28 days.
4. Concrete rating shall be 3,000 PSI (minimum), 28 days 3,500 PSI.



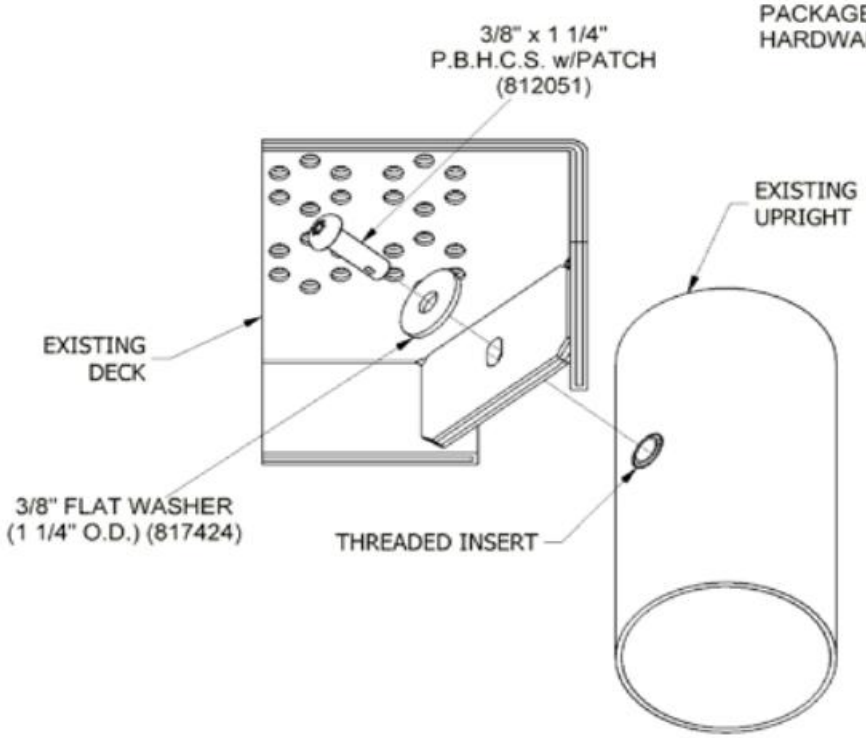
DETAIL 3
SIDE VIEW OF SURFACE MOUNT

Clamp Assembly Details



TYPICAL DURAMAX PIPE CLAMP ASSEMBLY

NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

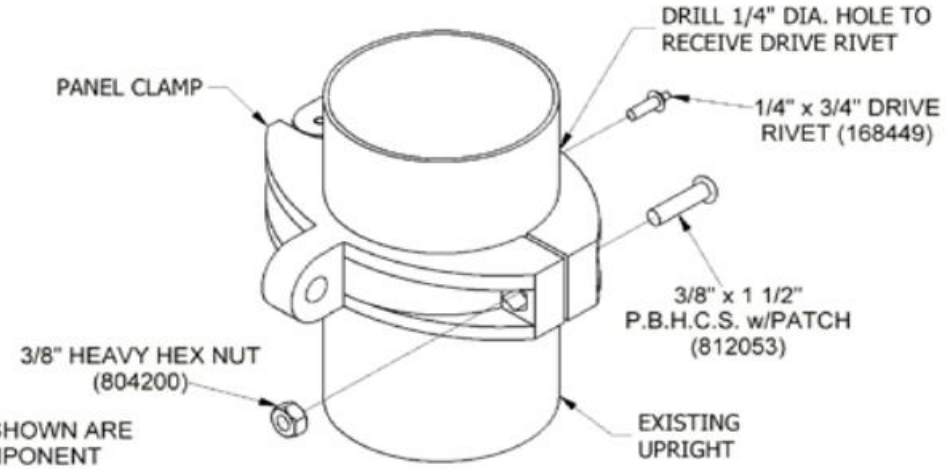


TYPICAL DURAMAX DECK CONNECTION

Issued/Revised: 4/4/2016

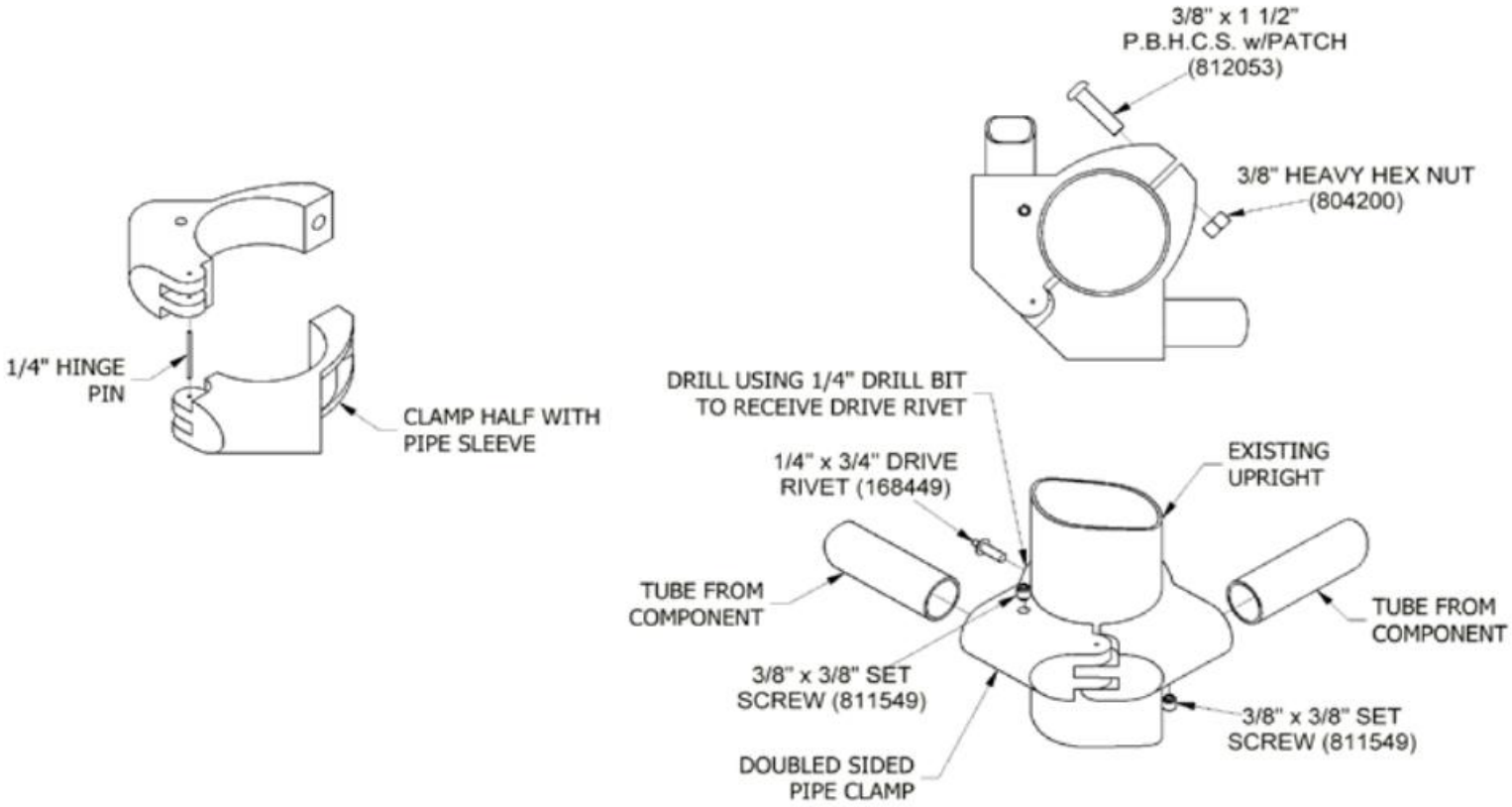
SHEET 1 OF 2

Clamp Assembly Details



NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

TYPICAL DURAMAX PANEL CLAMP ASSEMBLY



DURAMAX APPLICATION: To attach two components at 90 degrees to each other on the same square deck. Use when clamp conflicts do not allow you to use seperate clamps for each component.

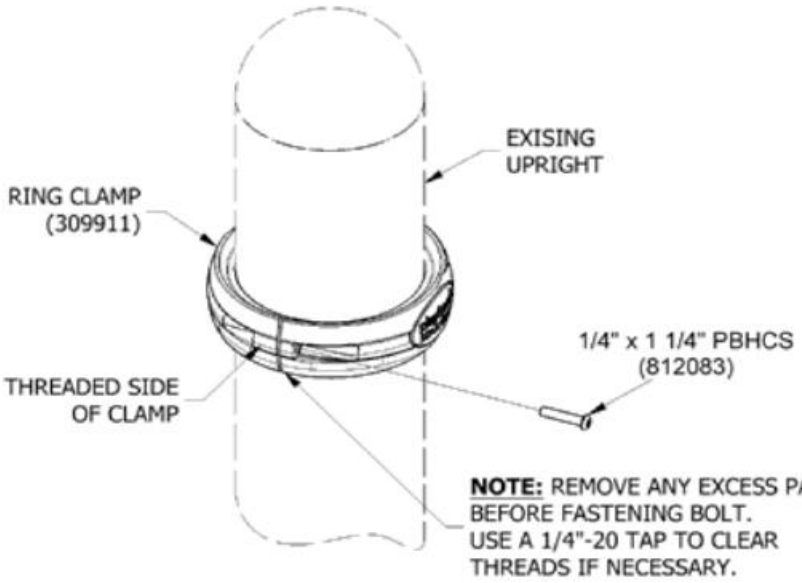
ASSEMBLY INSTRUCTIONS: Use two regular Pipe Clamps and remove hinge pins. Select clamps with pipe sleeves to create the Double Sided Pipe Clamp. Insert hinge pin back into clamps as shown above.

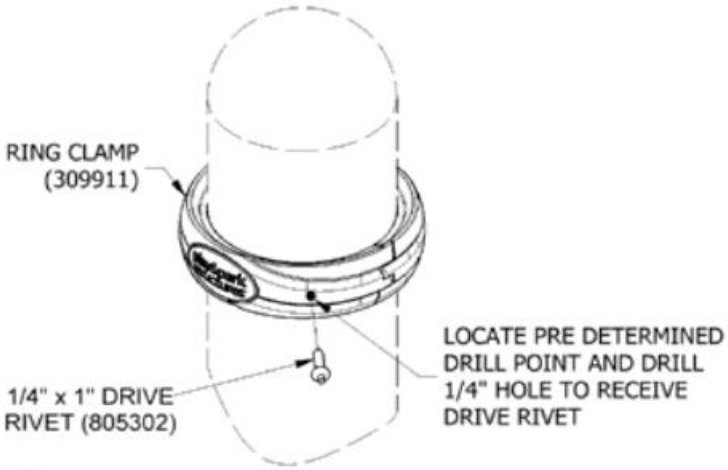
TYPICAL DURAMAX DOUBLE SIDED PIPE CLAMP ASSEMBLY

Issued/Revised: 4/4/2016

SHEET 2 OF 2

Clamp Assembly Details





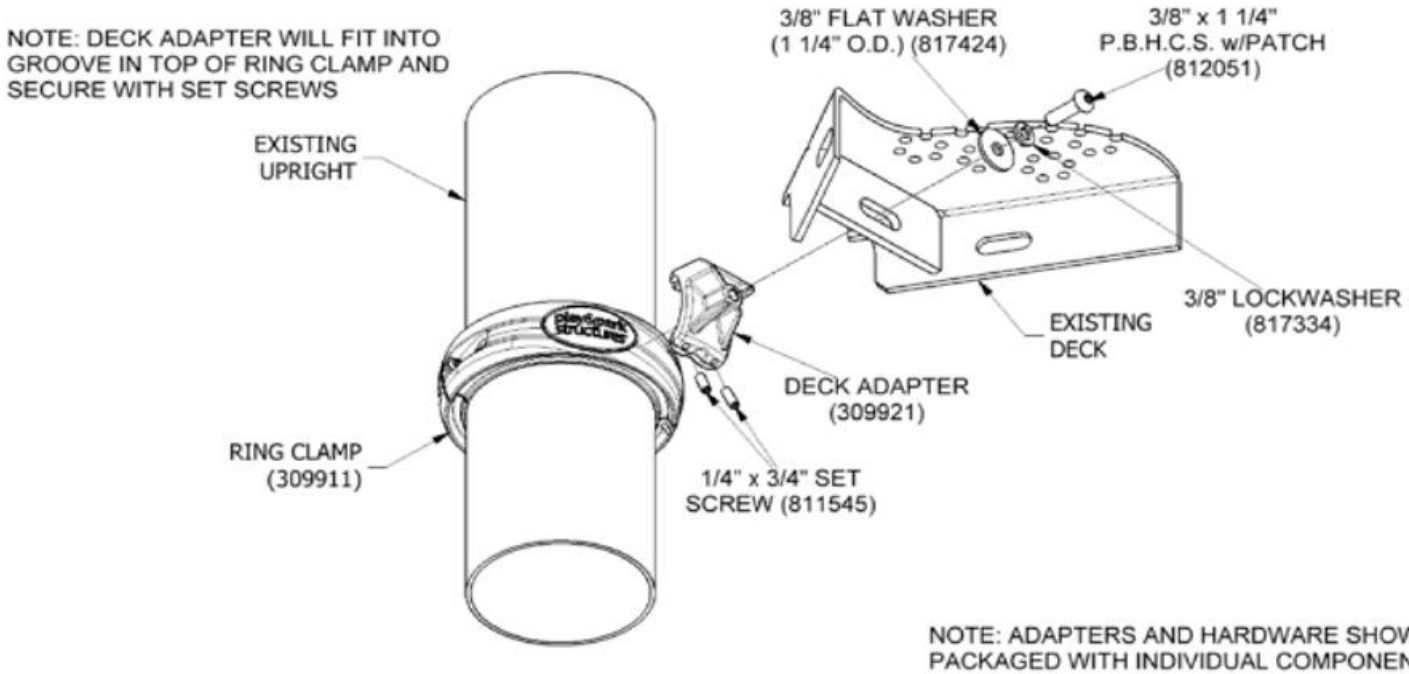
NOTE: THE USE OF LOCTITE IS IMPORTANT.

IMPORTANT: ORIENTATION OF BOLT IS CRITICAL.

NOTE: THE RING CLAMP WILL HAVE A SMALL GAP AT THE CONNECTION POINT AFTER ATTACHED. THE GAP IS DESIGNED FOR DRAINAGE AND TO ENSURE A PROPER FIT.

NOTE: MAKE SURE THE PLAY & PARK STRUCTURES LOGO IS ORIENTED CORRECTLY AND VISIBLE FROM GROUND LEVEL.

TYPICAL SUPERMAX RING CLAMP ASSEMBLY



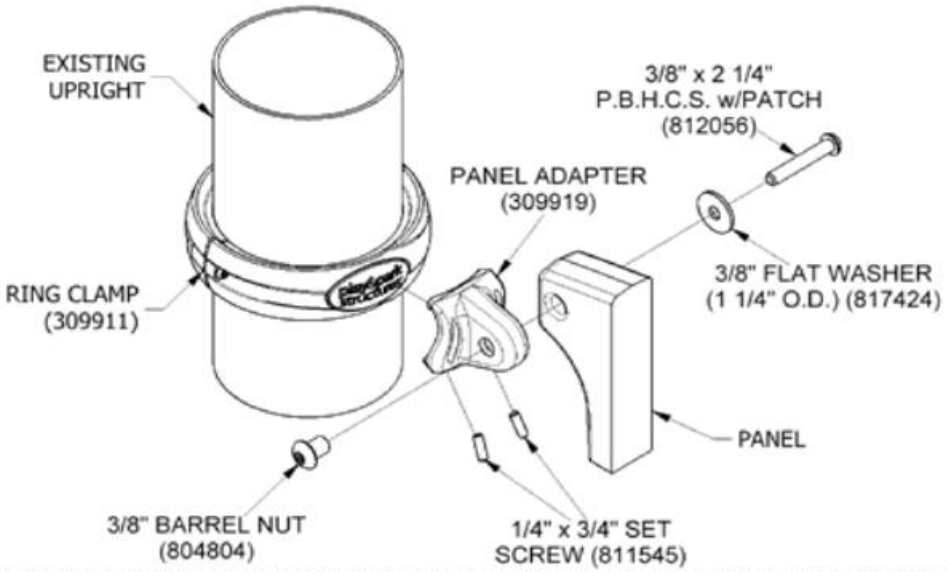
NOTE: ADAPTERS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES

Issued/Revised: 4/11/2016

TYPICAL SUPERMAX DECK CONNECTION

SHEET 1 OF 2

Clamp Assembly Details

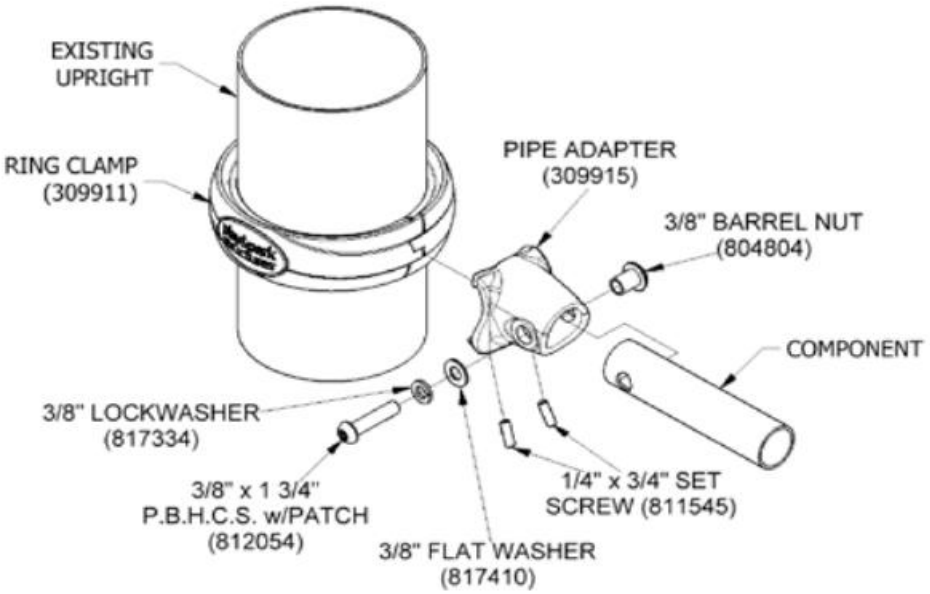


NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.

TYPICAL SUPERMAX PANEL ADAPTER ASSEMBLY

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



TYPICAL SUPERMAX PIPE ADAPTER ASSEMBLY

Issued/Revised: 4/11/2016

SHEET 2 OF 2

DETAILED MAINTENANCE RECORD

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Play Area Site Name _____

Play Area Location or Description _____

Date _____ Inspector _____

Item Number	OK	Problem	Solution	Date Repaired	Initials

PLAYGROUND MAINTENANCE CHECKLIST

play&park structures
A PLAYCORE Company

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures recommends the following maintenance procedures be followed:

On a daily basis: A responsible individual should conduct a brief visual check for structural defects, signs of vandalism and litter of foreign matter that needs to be removed.

On a weekly basis: A responsible individual should complete this checklist. Any required repairs should be detailed on the separate **Detailed Maintenance Record**, and once they are completed, both should be filed for future reference. A separate file and form should be kept for each play structure at each location.

IMPORTANT: Always refer to - and comply with - the separate *Safety Guidelines* and ASTM and CPSC Guidelines. The play structure(s) should be barricaded so that it cannot be used while repairs are being completed.

	Item to be Checked (use the following page to record a brief description of the necessary repairs)	**OK**	**Repairs Required**	**Date Repaired**
A.	**Play Structures in General**			
	Post and component footings are not exposed, cracked or loose			
	1. Clamps show no signs of slippage, cracking, or failure			
	2. Clamp drive rivets and hardware are secure			
	3. Welds are intact and free of cracks			
	a. Slide and Deck Enclosures			
	b. Overhead Activities			
	c. Climbers			
	4. No rust or corrosion			
	5. No splintered, cracked, gouged or otherwise deteriorated plastics; check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create an entrapment as specified on ASTM-F-1487 section 6.			
	6. No scratched, chipped, or peeling paint			
	7. Metal parts show no visible cracks, bending, warping or breakage			
	8. No missing bolts, nuts, etc.			
	9. All bolts, nuts, and fasteners are tight			
	10. All joints are secure (pay special attention to sectional slides, flush mounted decks, and pipe connections)			
	11. All swivels, bearings, grease fittings, and moving parts are well lubricated and not excessively worn (pay special attention to tire swings, tot swings, strap swings, track rides, and trapeze rings)			
	12. No broken or missing parts			
	13. No sharp edges or unsafe protrusions (check metal corners, bolts, etc.)			
	14. No exposed mechanisms, junctions of moving parts or components that will pose possible pinch or crush points			
B.	**Play Events**			
	1. Plastic is not cut or cracked			
	2. All slide supports/anchors are intact and secure			
	3. All 'S' hooks are closed and not excessively worn			
	4. Clatter bridge chain and connections are not excessively worn, especially at connection points			
	5. Connectors and Chain have free movement			
C.	**Surrounding Area**			
	1. Resilient surfacing material is not scattered or excessively worn			
	2. Resilient surfacing material is adequately deep and retains its fall absorbing abilities as specified at the time of installation			
	3. Border around playground is in good condition and has not come loose			
	4. No roots, rocks, or other objects that may cause a tripping or injury hazard			
	5. Area is clean of litter (no broken glass or bottles, etc .)			

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR

Parts List					
DESCRIPTION	7337	7338	7339	7340	PART NUMBER
SMALL FUN MIRROR	1	2	0	0	212280
LARGE FUN MIRROR	0	0	1	2	212281
HARDWARE COMPLETE	1	1	0	0	212226
HARDWARE COMPLETE	0	0	1	0	212225
HARDWARE COMPLETE	0	0	0	1	314124
3/8" x 3/4" P.B.H.C.S. w/PATCH	5	5	8	0	812052
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	0	0	0	8	812051
3/8" FLAT WASHER	5	5	8	8	817410
3/8" LOCKWASHER	5	5	8	8	817334
3/8" BARREL NUT	5	5	8	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Mirror Panel:
The mirror panels shall be fabricated from 3/16" thick acrylic with UV inhibitive reflective coating.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR

7337, 7338, & 7339 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach Small or Large Fun Mirror to Rotomold using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 868.
3. When using 7338, attach (2) Small Mirrors to Rotomold using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 872.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

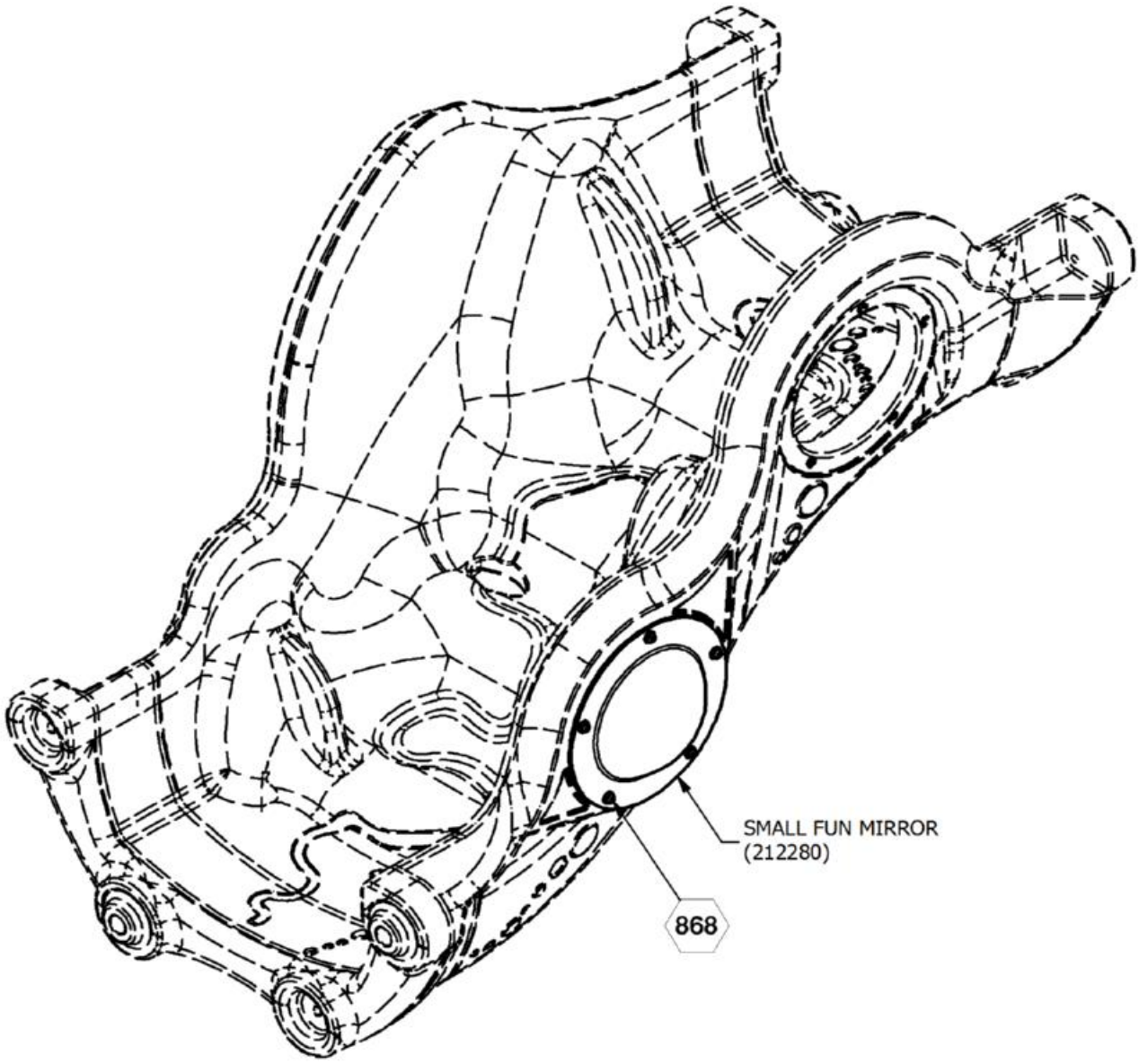
7340 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach Large Fun Mirror to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 880.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR



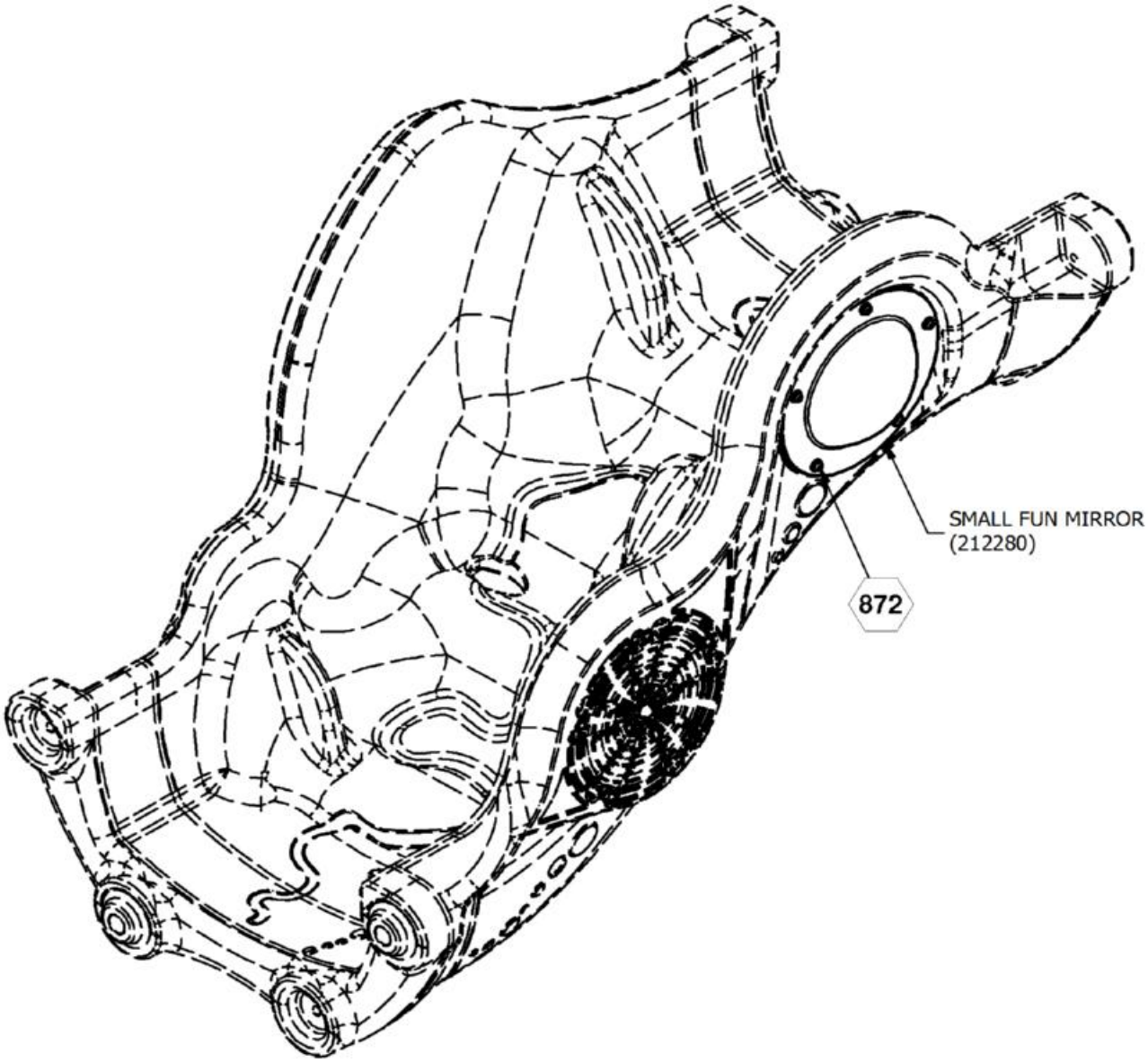
FINISHED ASSEMBLY
7337 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 1/26/2017

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR



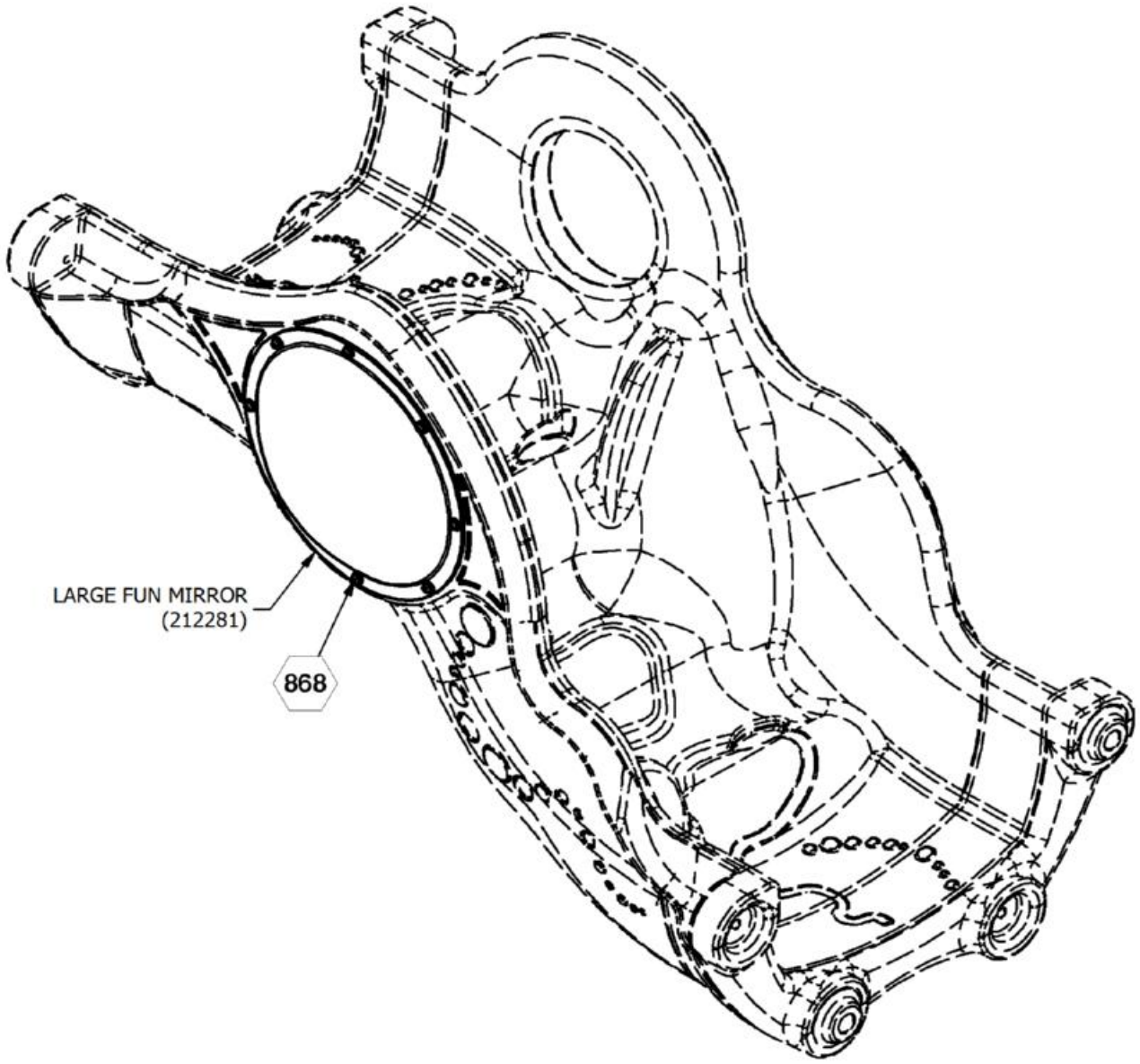
= INSTALLATION DETAIL

FINISHED ASSEMBLY
7338 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 1/26/2017

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR

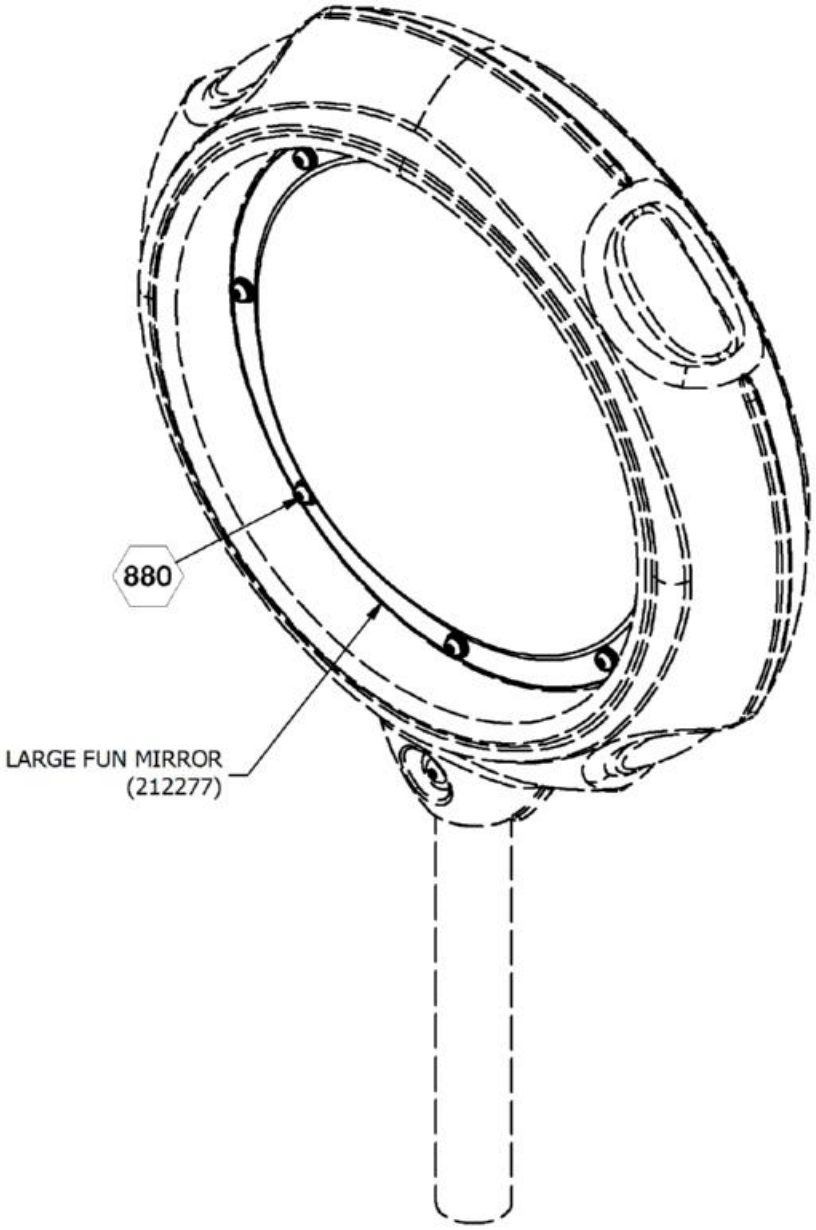


FINISHED ASSEMBLY
7339 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR



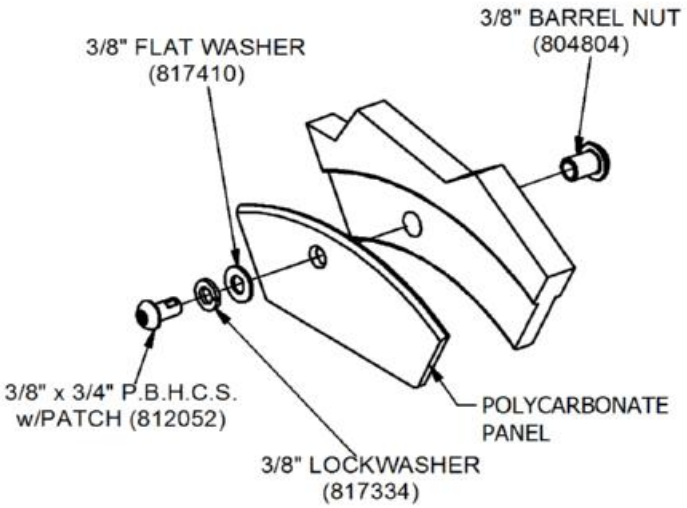
FINISHED ASSEMBLY
7340 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

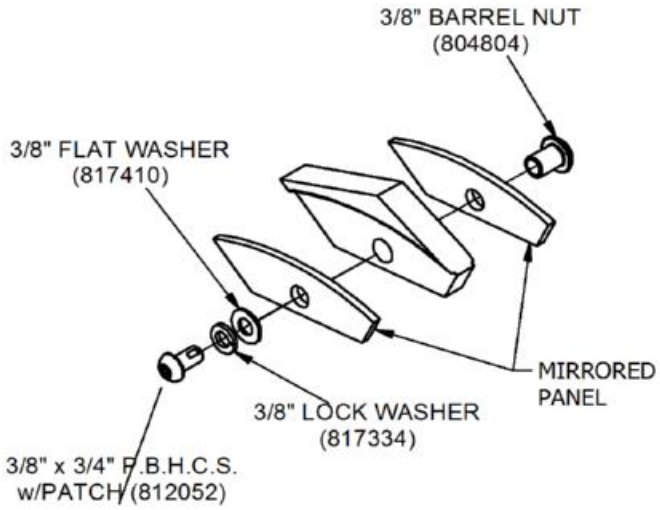
Issued/Revised: 1/26/2017

7337 12" ONE SIDED FUN MIRROR
7338 12" TWO SIDED FUN MIRROR
7339 20" ONE SIDED FUN MIRROR
7340 20" TWO SIDED FUN MIRROR

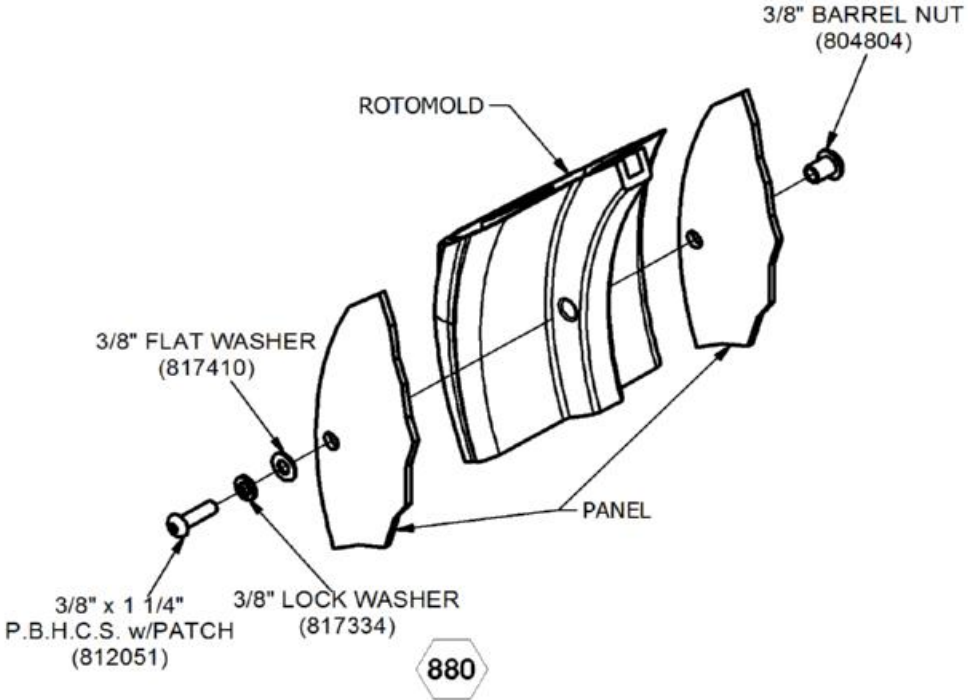


NOTE: DISCARD BARREL NUT FOR ROTOMOLD APPLICATION

868



872



880

7347 12" TWO SIDED COLOR WHEEL
7348 20" TWO SIDED COLOR WHEEL

Parts List			
DESCRIPTION	7347	7348	PART NUMBER
12" COLOR WHEEL	1	0	212463
20" COLOR WHEEL	0	1	212464
HARDWARE COMPLETE	1	0	212465
HARDWARE COMPLETE	0	1	314125
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	0	812051
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	0	8	812058
3/8" LOCK WASHER	5	8	817334
3/8" FLAT WASHER	5	8	817410
3/8" BARREL NUT	5	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Color Wheel:
The Color Wheel shall be fabricated from 1/2" high density polyethylene and 3/16" thick colored UV inhibitive acrylic.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

7347 12" TWO SIDED COLOR WHEEL
7348 20" TWO SIDED COLOR WHEEL

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 12" Color Wheel to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 546.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

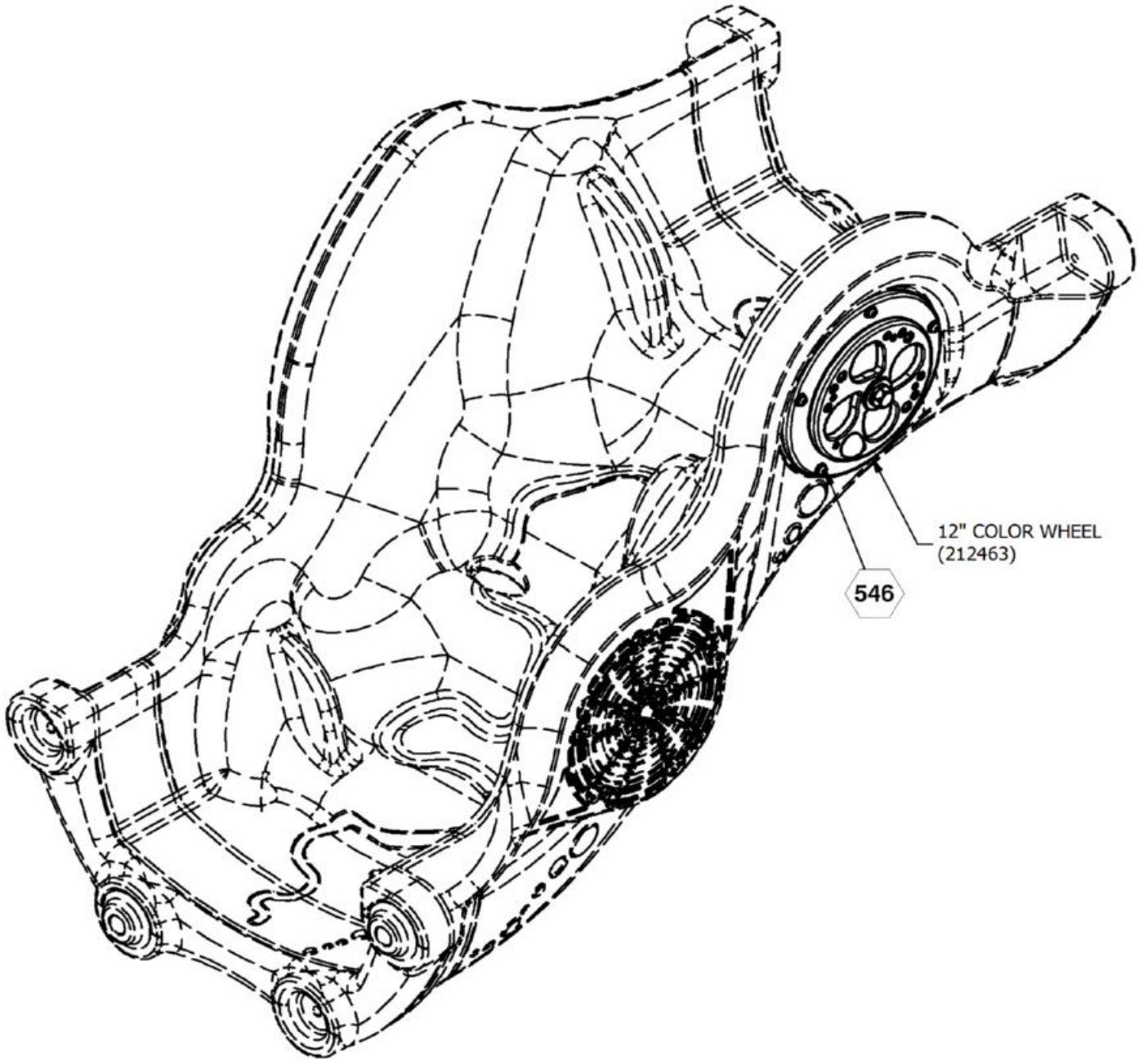
INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 20" Color Wheel to Rotomold using 3/8" x 2 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 881.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

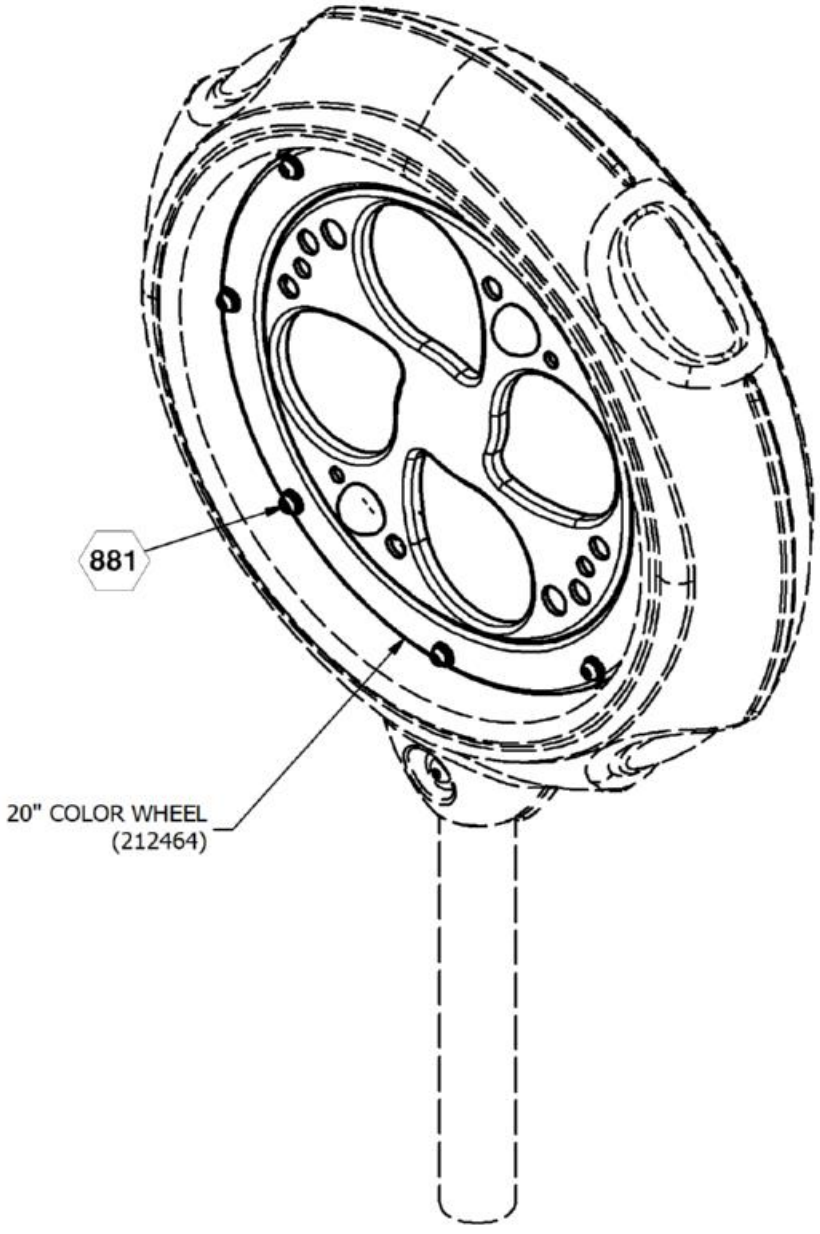
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7347 12" TWO SIDED COLOR WHEEL
7348 20" TWO SIDED COLOR WHEEL



FINISHED ASSEMBLY
7347 SHOWN

7347 12" TWO SIDED COLOR WHEEL
7348 20" TWO SIDED COLOR WHEEL



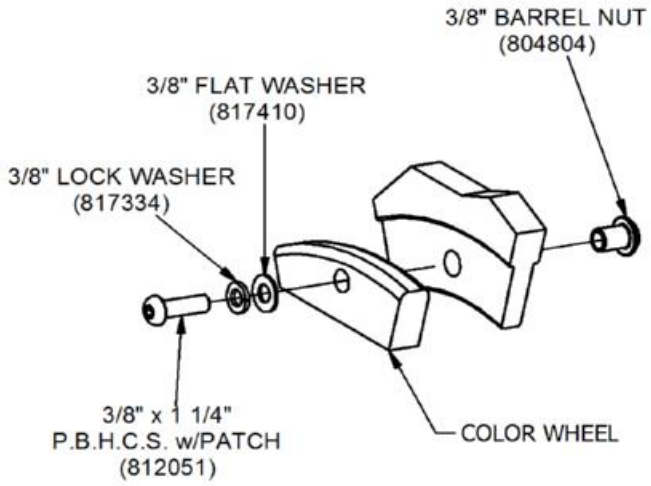
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
7348 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

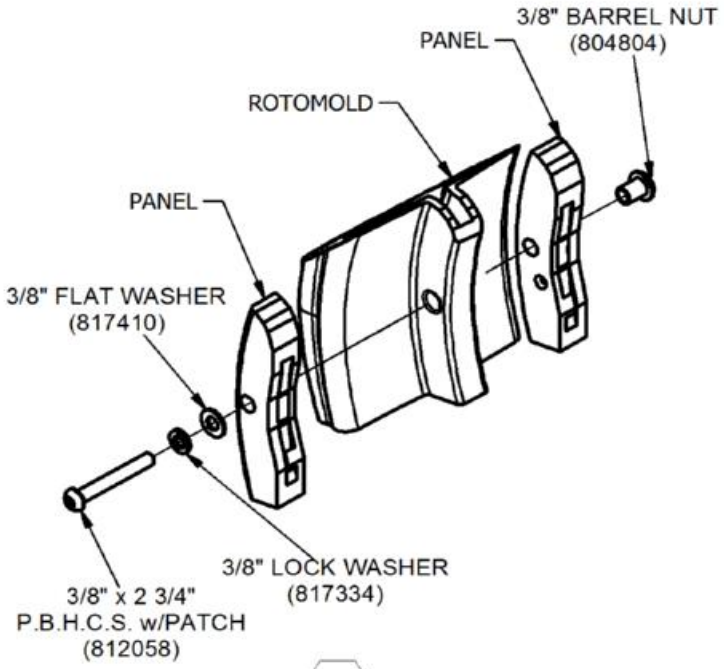
Issued/Revised: 2/2/2017

7347 12" TWO SIDED COLOR WHEEL
7348 20" TWO SIDED COLOR WHEEL



NOTE: DISCARD BARREL NUT FOR ROTOMOLD APPLICATION

546



881

7361 20" TWO SIDED TWIST BEARING

Parts List		
DESCRIPTION	QTY	PART NUMBER
20" TWIST BEARING PANEL	1	212484
HARDWARE COMPLETE	1	212890
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	8	812053
3/8" LOCK WASHER	8	817334
3/8" FLAT WASHER	8	817410
3/8" BARREL NUT	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Twist Bearing:
The Twist Bearing shall be fabricated from 1/2" high density polyethylene and 3/16" thick UV inhibitive acrylic with 4.5mm stainless steel balls.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach 20" Twist Bearing Panel to Rotomold using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Lock Washer, and 3/8" Barrel Nut. See Detail 878.

3. Plumb and level the entire assembly and tighten all fasteners.

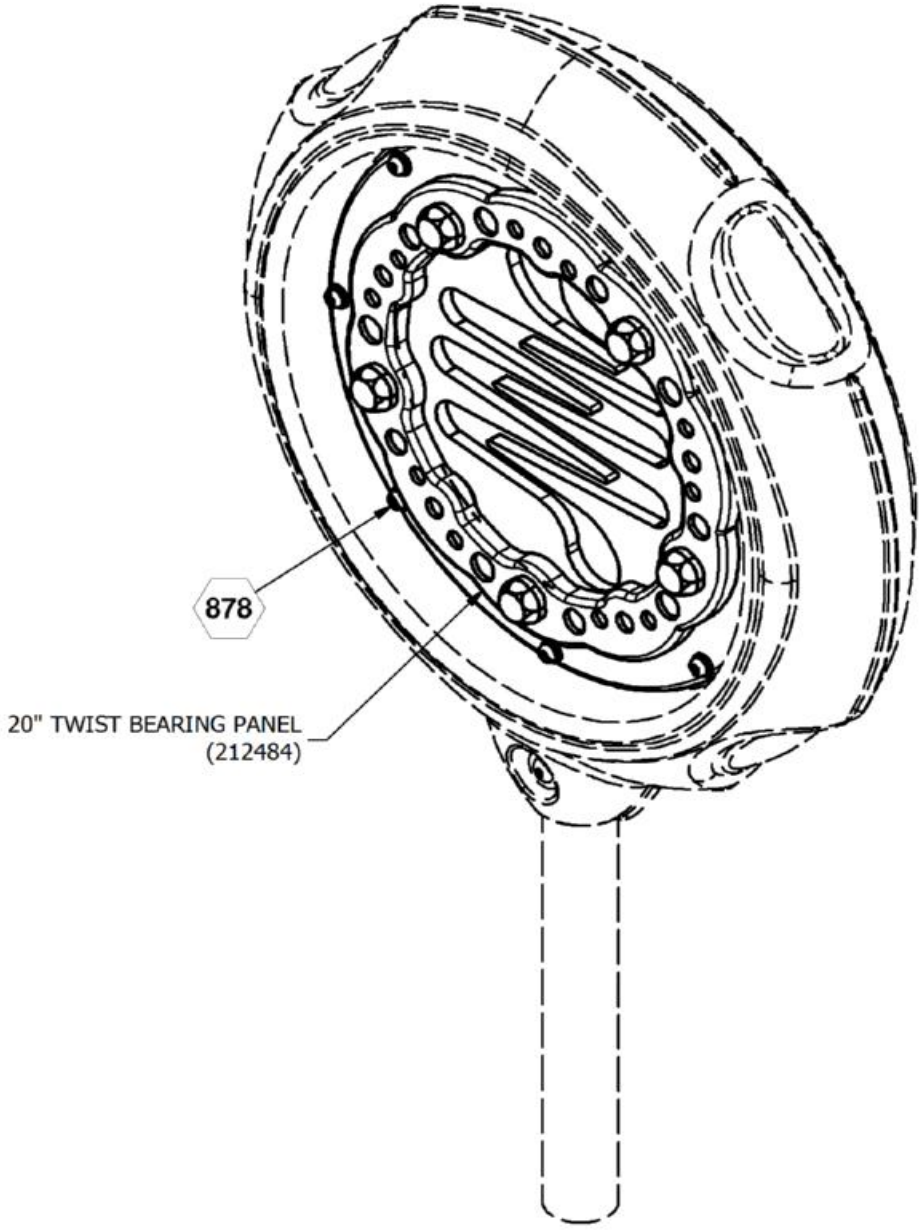
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

7361 20" TWO SIDED TWIST BEARING

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

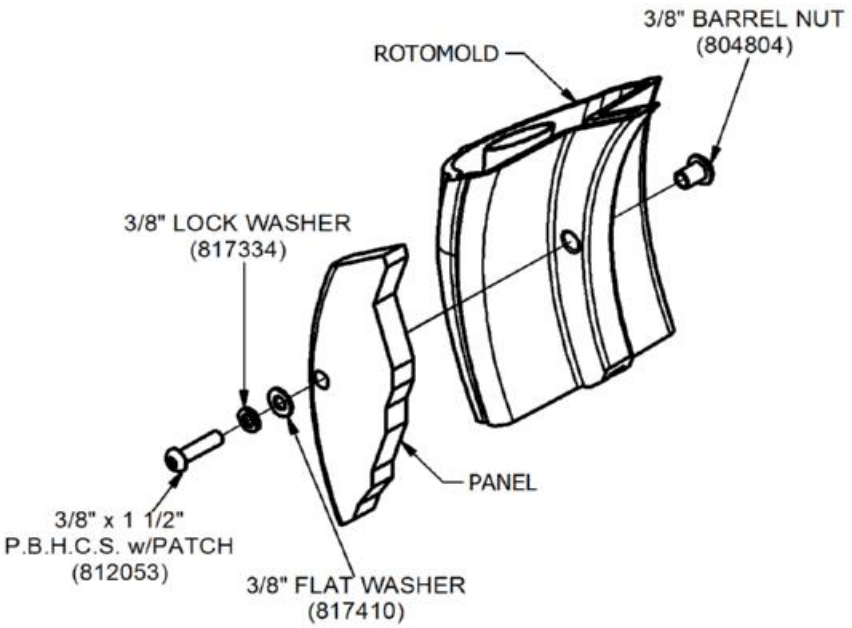


= INSTALLATION DETAIL

FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

7361 20" TWO SIDED TWIST BEARING



SuperMax Play Systems

60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

Parts List									
DESCRIPTION	60059	G60059	60060	G60060	60088	G60088	60102	G60102	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 10'	1	0	0	0	0	0	0	0	300130
5" O.D. POST WITH CAP (GALVANIZED) 10'	0	1	0	0	0	0	0	0	G00130
5" O.D. POST WITH CAP (ALUMINUM) 12'	0	0	1	0	0	0	0	0	300059
5" O.D. POST WITH CAP (GALVANIZED) 12'	0	0	0	1	0	0	0	0	G00059
5" O.D. POST WITH CAP (ALUMINUM) 14'	0	0	0	0	1	0	0	0	300060
5" O.D. POST WITH CAP (GALVANIZED) 14'	0	0	0	0	0	1	0	0	G00060
5" O.D. POST WITH CAP (ALUMINUM) 6'	0	0	0	0	0	0	1	0	300057
5" O.D. POST WITH CAP (GALVANIZED) 6'	0	0	0	0	0	0	0	1	G00057

Parts List									
DESCRIPTION	60178	G60178	60946	G60946	60947	G60947	60948	G60948	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 8'	1	0	0	0	0	0	0	0	300521
5" O.D. POST WITH CAP (GALVANIZED) 8'	0	1	0	0	0	0	0	0	G00521
5" O.D. POST WITH CAP (ALUMINUM) 15'	0	0	1	0	0	0	0	0	305801
5" O.D. POST WITH CAP (GALVANIZED) 15'	0	0	0	1	0	0	0	0	G05801
5" O.D. POST WITH CAP (ALUMINUM) 13'	0	0	0	0	1	0	0	0	305803
5" O.D. POST WITH CAP (GALVANIZED) 13'	0	0	0	0	0	1	0	0	G05803
5" O.D. POST WITH CAP (ALUMINUM) 11'	0	0	0	0	0	0	1	0	305805
5" O.D. POST WITH CAP (GALVANIZED) 11'	0	0	0	0	0	0	0	1	G05805

Parts List									
DESCRIPTION	60949	G60949	60956	G60956	61538	G61538	61539	G61539	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 7'	1	0	0	0	0	0	0	0	305807
5" O.D. POST WITH CAP (GALVANIZED) 7'	0	1	0	0	0	0	0	0	G05807
5" O.D. POST WITH CAP (ALUMINUM) 9'	0	0	1	0	0	0	0	0	305810
5" O.D. POST WITH CAP (GALVANIZED) 9'	0	0	0	1	0	0	0	0	G05810
5" O.D. POST WITH CAP (ALUMINUM) 4'	0	0	0	0	1	0	0	0	304957
5" O.D. POST WITH CAP (GALVANIZED) 4'	0	0	0	0	0	1	0	0	G04957
5" O.D. POST WITH CAP (ALUMINUM) 5'	0	0	0	0	0	0	1	0	305615
5" O.D. POST WITH CAP (GALVANIZED) 5'	0	0	0	0	0	0	0	1	G05615

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

INSTALLATION INSTRUCTIONS:

1. Component numbers are for one (1) Upright Post only. Please refer to your Plan Drawing and Footing Diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure up from the lower end of each Upright Post and mark using a felt-tip marker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof naker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be instaling. Using your footing diagram and elevation view as a reference, move and dig holes accordingly.

3. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

4. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete has a downward slope of 45° at the top away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like nuts, bolts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

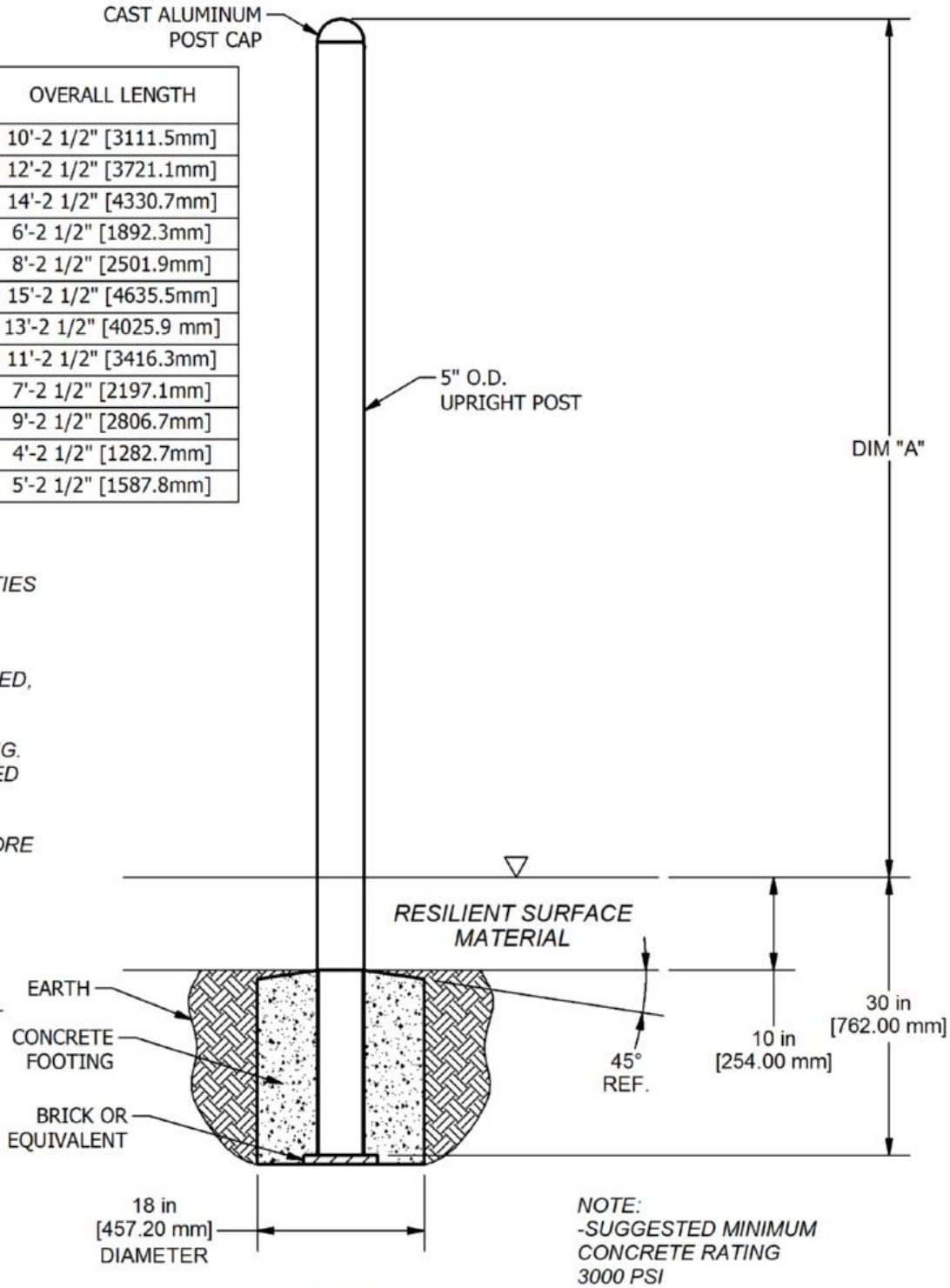
60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

NO.	DIM "A"	OVERALL LENGTH
60059	7'-8 1/2" [2349.5mm]	10'-2 1/2" [3111.5mm]
60060	9'-8 1/2" [2959.1mm]	12'-2 1/2" [3721.1mm]
60088	11'-8 1/2" [3568.7mm]	14'-2 1/2" [4330.7mm]
60102	3'-8 1/2" [1130.3mm]	6'-2 1/2" [1892.3mm]
60178	5'-8 1/2" [1739.9mm]	8'-2 1/2" [2501.9mm]
60946	12'-8 1/2" [3873.5 mm]	15'-2 1/2" [4635.5mm]
60947	10'-8 1/2" [3263.9mm]	13'-2 1/2" [4025.9 mm]
60948	8'-8 1/2" [2654.3mm]	11'-2 1/2" [3416.3mm]
60949	4'-8 1/2" [1435.1mm]	7'-2 1/2" [2197.1mm]
60956	6'-8 1/2" [2044.7mm]	9'-2 1/2" [2806.7mm]
61538	1'-8 1/2" [520.7mm]	4'-2 1/2" [1282.7mm]
61539	2'-8 1/2" [1282.7mm]	5'-2 1/2" [1587.8mm]

SHOCK ABSORBING PROPERTIES OF RESILIENT SURFACING MATERIALS VARY. IF YOU DETREMINE THAT LESS THAN 10" OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH BEFORE APPLYING SURFACING. IF MORE THAN 10" IS REQUIRED MAKE UP THE DIFFERENCE BY REDUCING THE DEPTH OF THE GROUND HOLE BY NO MORE THAN 2".

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF RESILIENT SURFACE MATERIAL AND CONCRETE



NOTE:
-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

ELEVATION VIEW

Issued/Revised: 7/11/2019

MODEL NO. 60947 Aluminum 156" Post with Cap
MODEL NO. G60947 Galvanized 156" Post with Cap

PARTS LIST

DESCRIPTION	60947	G60947	PART NUMBER
5" O.D. Post with Cap (Aluminum)	1	0	305803
5" O.D. Post with Cap (Galvanized)	0	1	G05803

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:
Post is 5" O.D. x 156", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyesterpowder-coated after fabrication. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 30.25 lb. / 13.72 kg.

GALVANIZED SPECIFICATIONS:
Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 82.30 lb. / 36.42 kg.

INSTALLATION INSTRUCTIONS:

1. The models 60947 and G60947 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that itis time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will beinstalling. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.

3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.

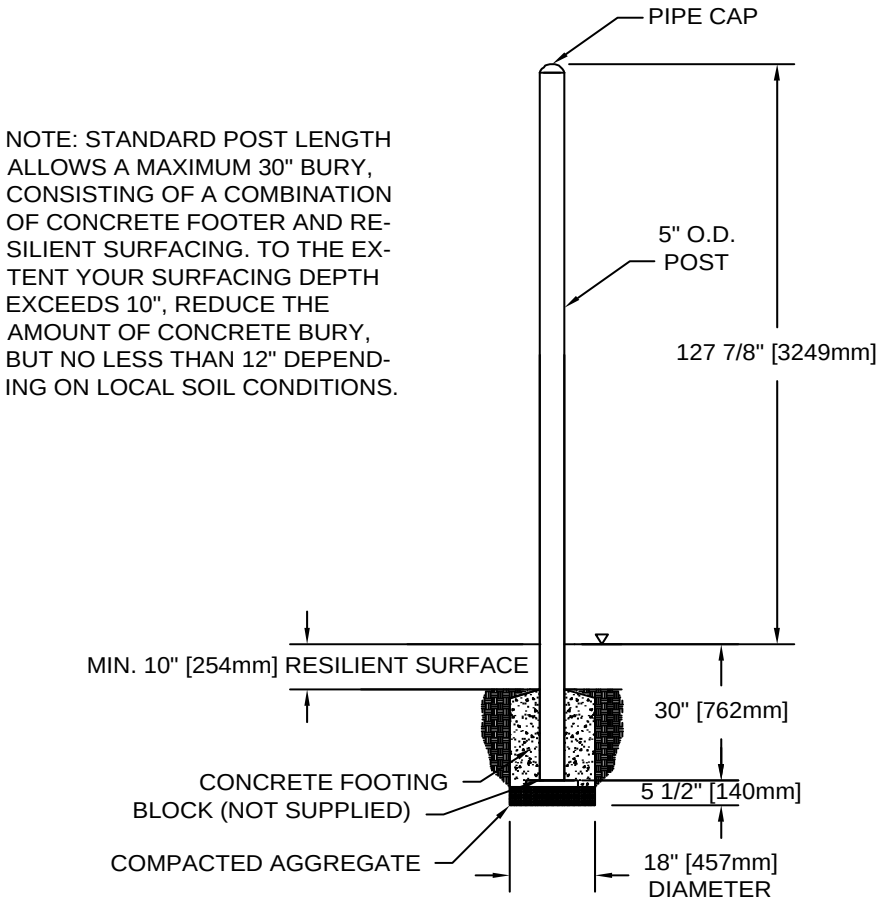
4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only whenall positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60947 Aluminum 156" Post with Cap
MODEL NO. G60947 Galvanized 156" Post with Cap

IMPORTANT:
To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for holes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair
records for each public-use playground equipment.



MODEL NO. 60948 Aluminum 132" Post with Cap
MODEL NO. G60948 Galvanized 132" Post with Cap

PARTS LIST

DESCRIPTION	60948	G60948	PART NUMBER
5" O.D. Post with Cap (Aluminum)	1	0	305805
5" O.D. Post with Cap (Galvanized)	0	1	G05805

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:
Post is 5" O.D. x 132", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyesterpowder-coated after fabrication. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 25.75 lb. / 11.68 kg.

GALVANIZED SPECIFICATIONS:
Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 69.79 lb. / 31.65 kg.

INSTALLATION INSTRUCTIONS:

1. The models 60948 and G60948 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that itis time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will beinstalling. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.

3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.

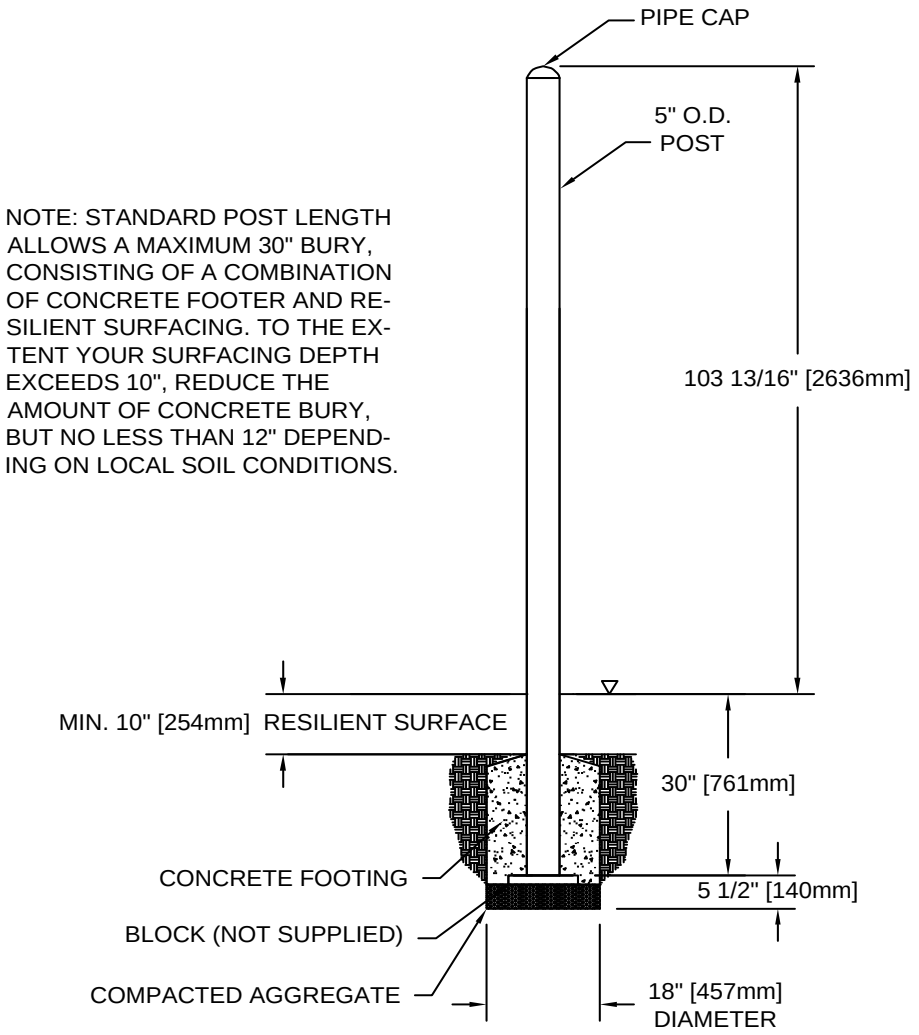
4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only whenall positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60948 Aluminum 132" Post with Cap
MODEL NO. G60948 Galvanized 132" Post with Cap

IMPORTANT:
To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for holes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair
records for each public-use playground equipment.



MODEL NO. 61117 RETURN STEP

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Return Step	1	306825
Small Kick Plate	1	315031
Support Pipe	2	168470
Hardware Complete	1	307321
3/8" Lock Nut	4	804353*
3/8" Tee Nut	2	804556*
3/8" x 1" P.B.H.C.S. w/Patch	4	812050*
3/8" x 1 3/4" P.B.H.C.S. w/Patch	2	812054*
3/8" Lock Washer	2	817334*
3/8" Flat Washer (1 1/4" O.D.)	10	817424*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

The Return Step shall be made from 12 gauge punched steel with a protective p&o finish. The Return Step shall be a one-piece welded assembly finished with the matte PVC coating. The Return step shall have a minimum of 355 square inches of area per step and shall descend in increments of 8" or less, as specified by the Americans with Disabilities Act (ADA). Platform Supports shall be fabricated from 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and 1 ¼" (14 gauge) pipe cap. Small Kickplate is cut from galvanneal sheet metal with slotted holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish. Support Pipes shall be all-welded assemblies and shall be coated with a custom formula of TGIC polyester powder.

INSTALLATION INSTRUCTIONS:

1. Locate the Triangle Transfer Point to attach the Return Step.

2. Dig Holes to receive the Support Pipes according to dimensions shown in Plan Views. Footing Dimension is specified in Elevation View. Refer to proper configuration in the Plan Views.

3. Attach the Small Kick Plate to the Modular Platform using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut as shown in Detail 106. Note that the Small Kick Plate receded area goes on top and attaches behind deck or platform.

4. Attach the Return Step to the lower part of Small Kick Plate using the same hardware and Detail as in step 3. (Detail 106)

MODEL NO. 61117 RETURN STEP

5. Attach the Support Pipes to the lower slots on the sides of the Return Step with 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 ¼" O.D.), and 3/8" Tee Nut. See Detail 124.

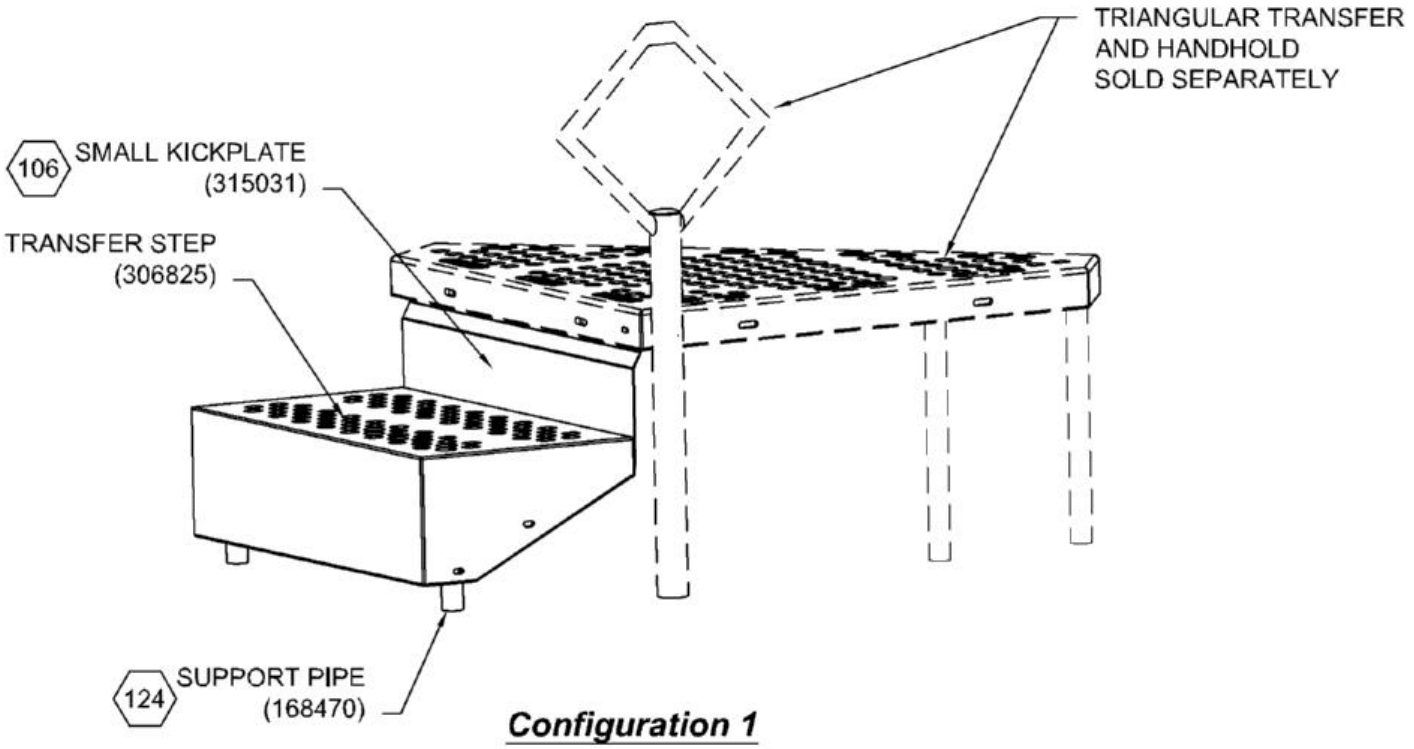
6. Plumb and level the entire assembly. Pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

7. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

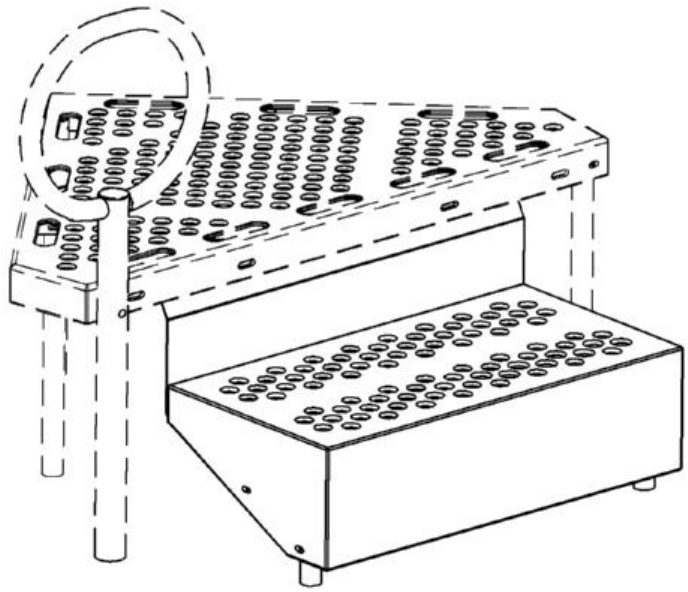
Periodically check hardware for tightness, and tighten as necessary, also check if the entrapments and protrusions still satisfactory. Always check all metal parts for paint peeling, corrosion and touch up if necessary. Check all parts for crack, breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 61117 RETURN STEP



Configuration 1

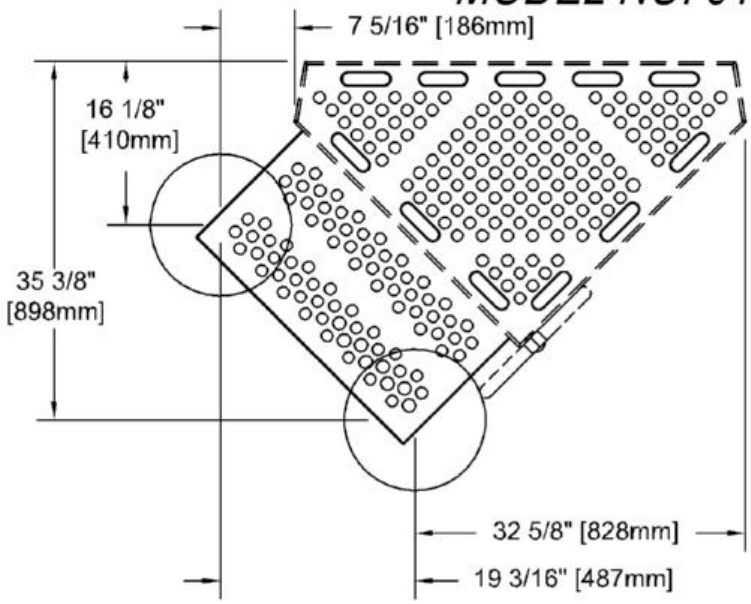
FINISHED ASSEMBLY



Configuration 2

⬡=INSTALLATION DETAIL

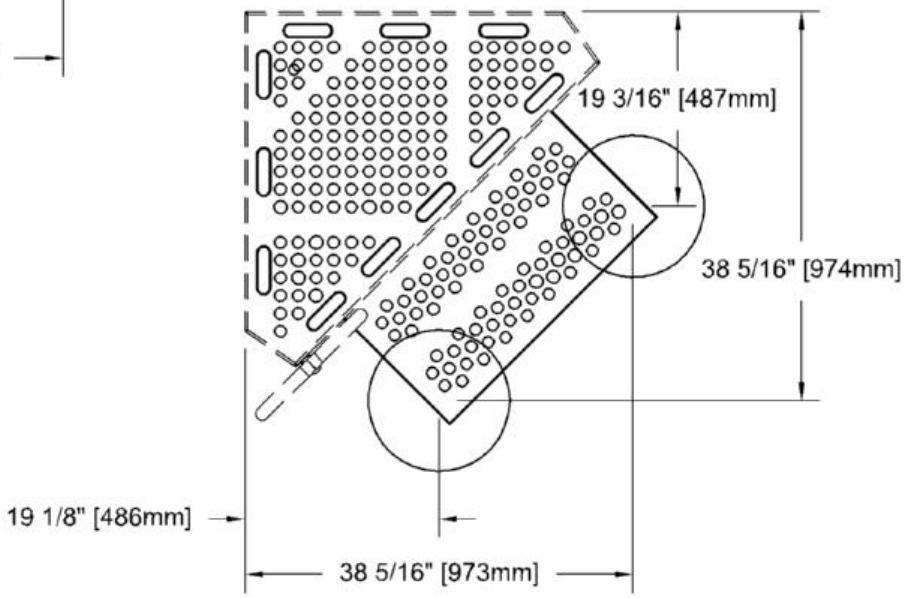
MODEL NO. 61117 RETURN STEP



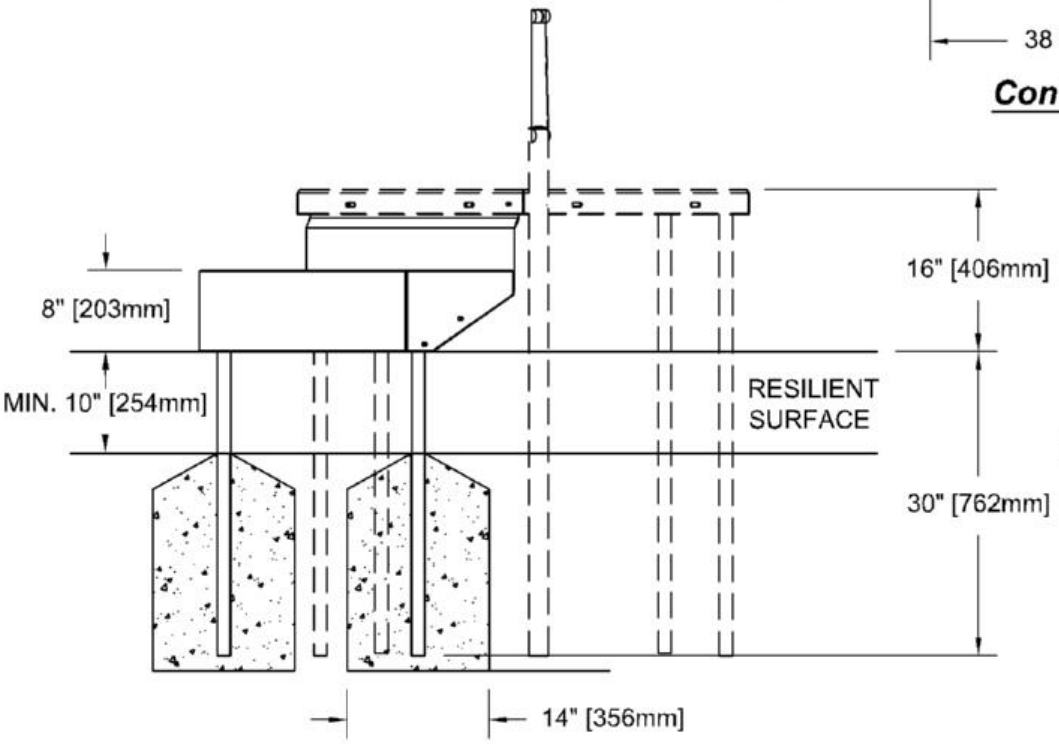
CONCRETE REQUIRED:
.20 CUBIC YARDS
[.15 CUBIC METERS]

Configuration 1

PLAN VIEWS

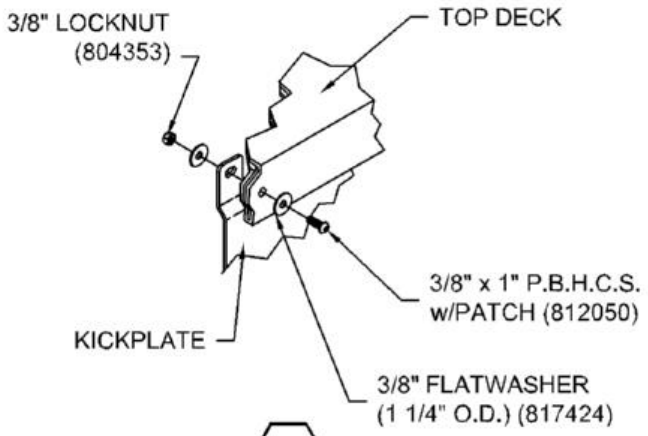


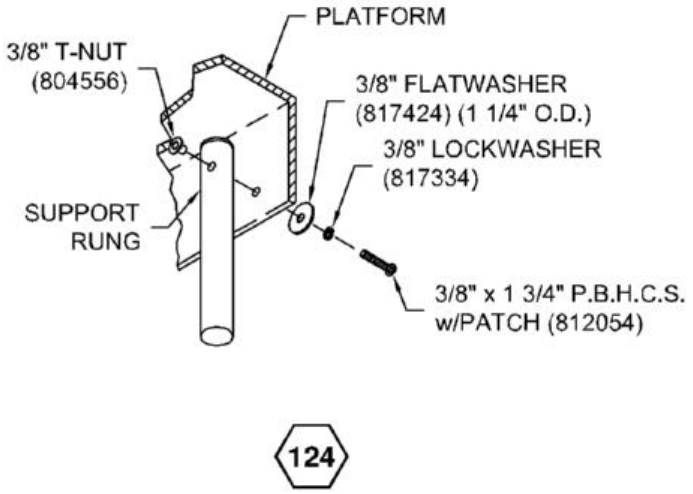
Configuration 2



ELEVATION VIEW

MODEL NO. 61117 RETURN STEP





65158 ROLLER TABLE

Parts List		
DESCRIPTION	QTY	PART NUMBER
SIDE RAIL	2	207805
PLATFORM	2	208872
ARCH HANDHOLD	4	207791
IN-GROUND PIPE	4	208889
3 1/2" DOME CAP	4	212995
ROLLER ASSEMBLY	44	220888
HARDWARE COMPLETE	1	220666
3/16" x 13/32" DRIVE RIVET	8	805366
3/8" x 1 1/4" B.H.C.S.	24	811051
3/8" x 1 3/4" B.H.C.S.	4	811054
3/8" FLAT WASHER	16	817410
3/8" FLAT WASHER (1 1/4" O.D.)	16	817424
3/8" LOCK WASHER	28	817334
3/8" HEX NUT	8	804053
5/16" x 3/4" B.H.C.S.	88	811040
5/16" FLAT WASHER	88	817406
5/16" LOCKWASHER	88	817330
3/8" BARREL NUT	4	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Dig footing holes as shown in Plan View and Elevation View.

2. Attach In-ground pipe to Side Rails. See Detail 363. Place Side Rails into footing holes.

3. Attach Rollers Assemblies to Side Rails. See Detail 360. Do not tighten hardware until assembly is completed.

4. Attach Platforms to the Side Rails. See Detail 362. Do not tighten hardware until assembly is completed. Platforms should be against its adjacent roller.

5. Attach Arch Handholds to the top of the Side Rails. See Detail 004. Attach Caps to Siderails using Detail 597.

6. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

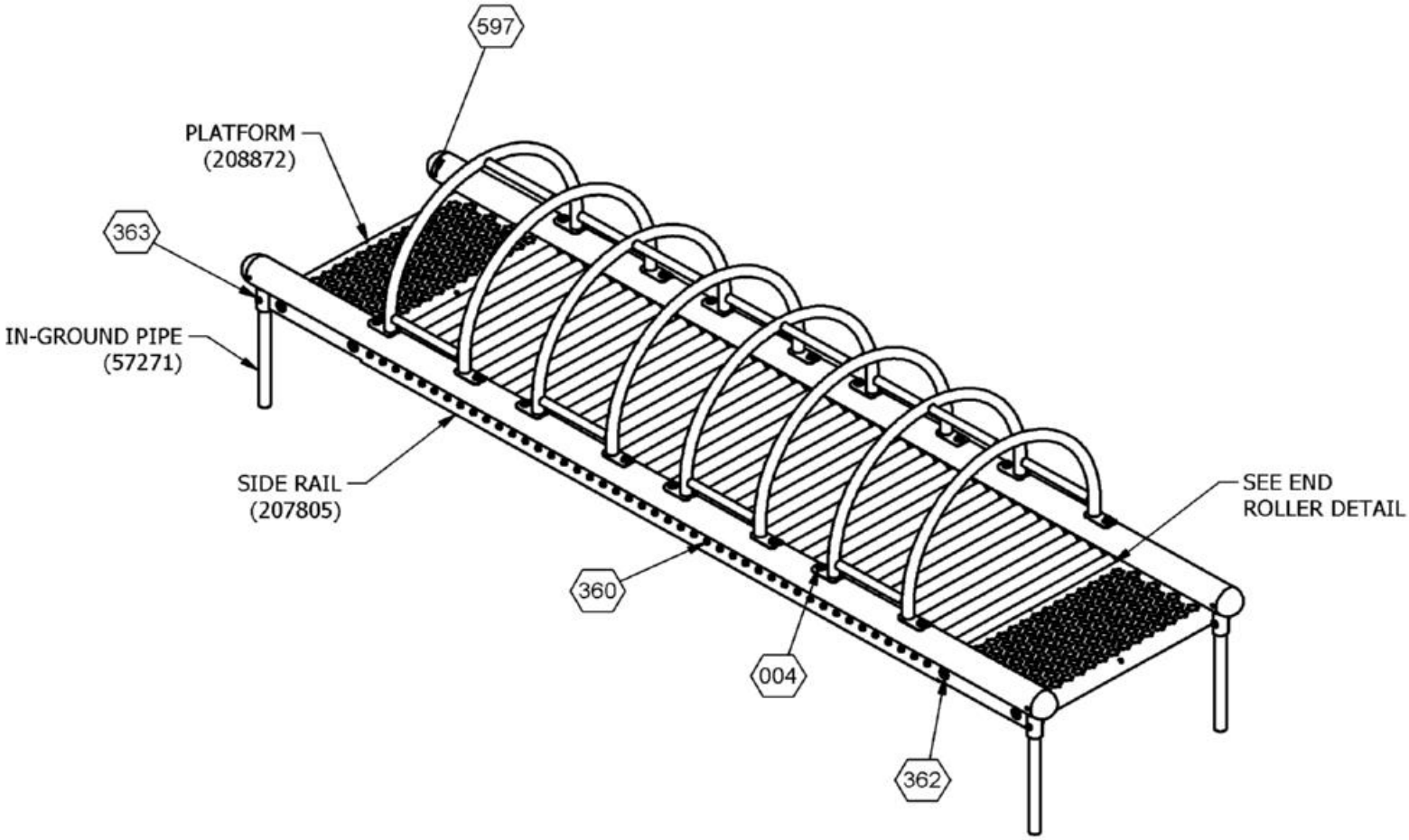
7. After entire unit is assambled pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

65158 ROLLER TABLE

8. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.





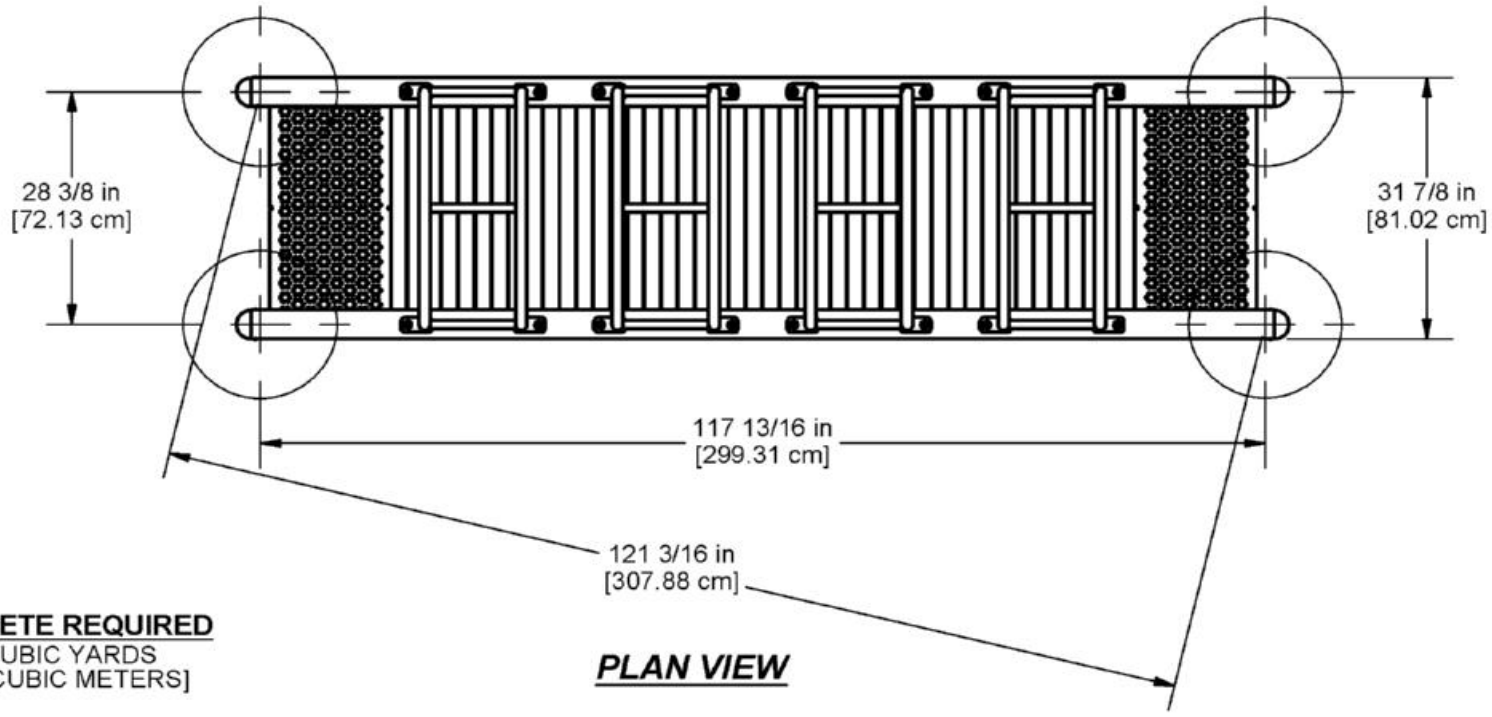
END ROLLER DETAIL

⬡ = INSTALLATION DETAIL

Issued/Revised: 12/9/2021

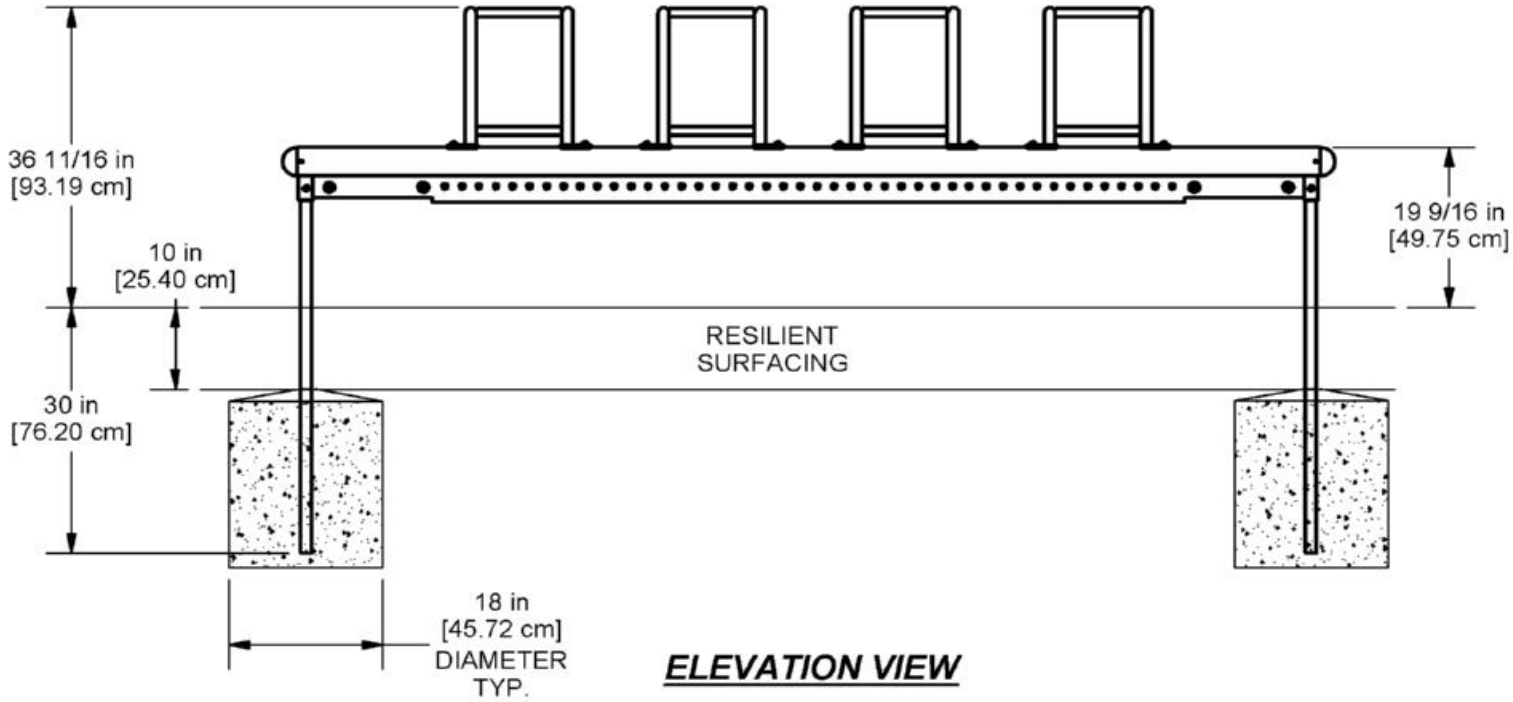
FINISHED ASSEMBLY

65158 ROLLER TABLE



CONCRETE REQUIRED
0.690 CUBIC YARDS
0.528 [CUBIC METERS]

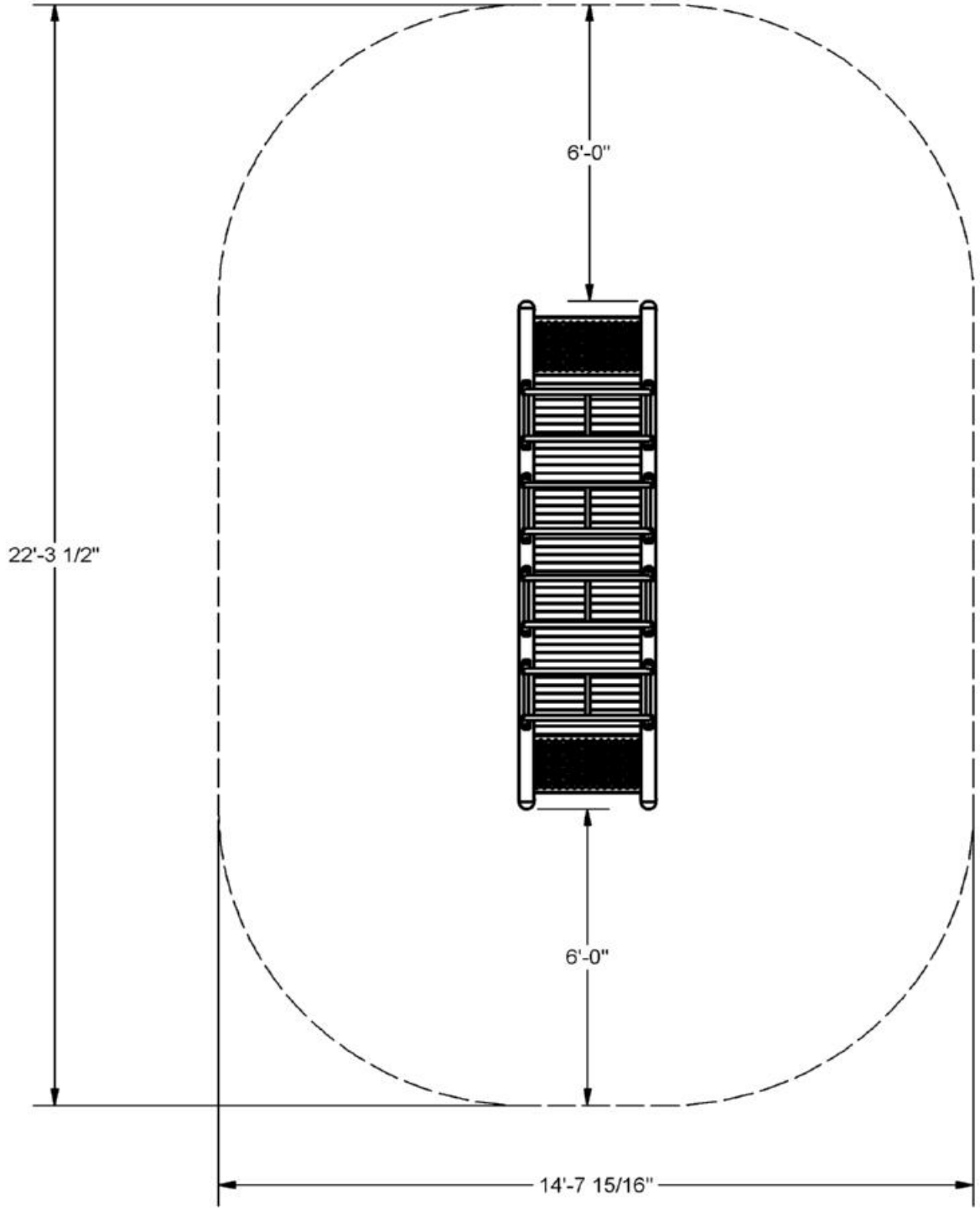
PLAN VIEW



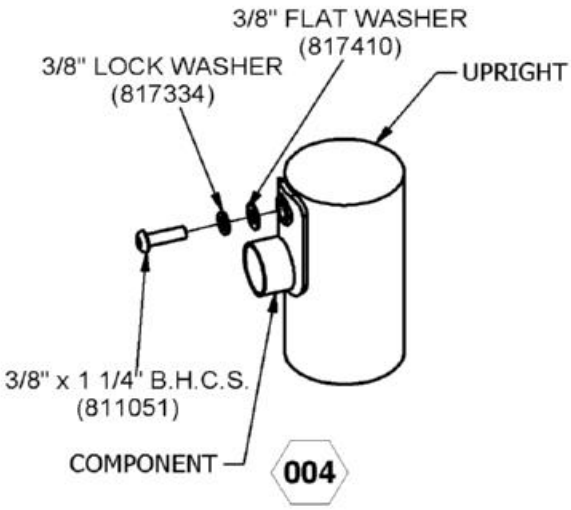
ELEVATION VIEW

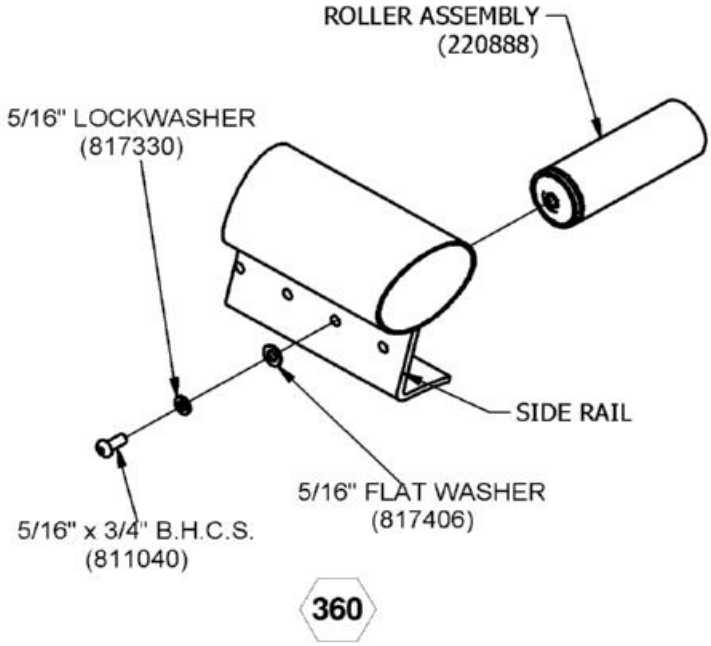
65158 ROLLER TABLE USE ZONE

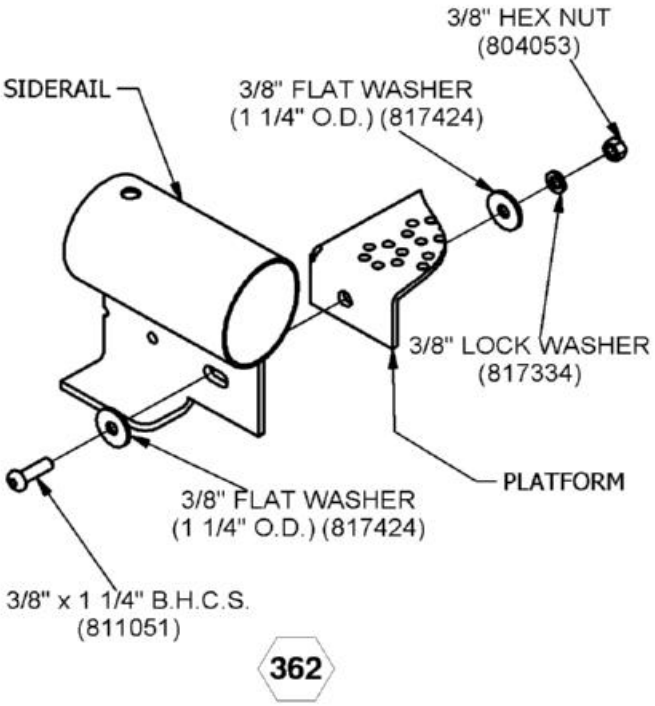
NOTE:
OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITH THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1487 (U.S.) OR CAN/CSA-Z-614 (CANADA).

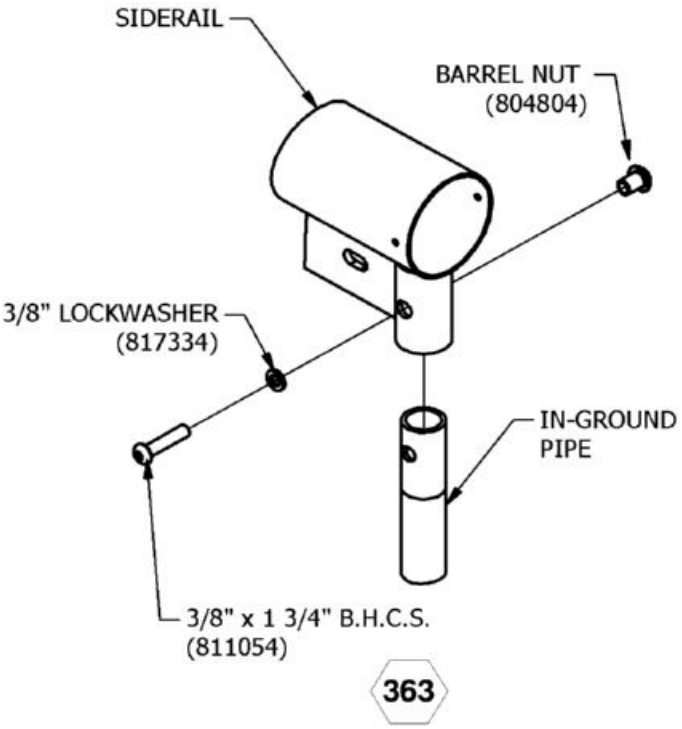


65158 ROLLER TABLE

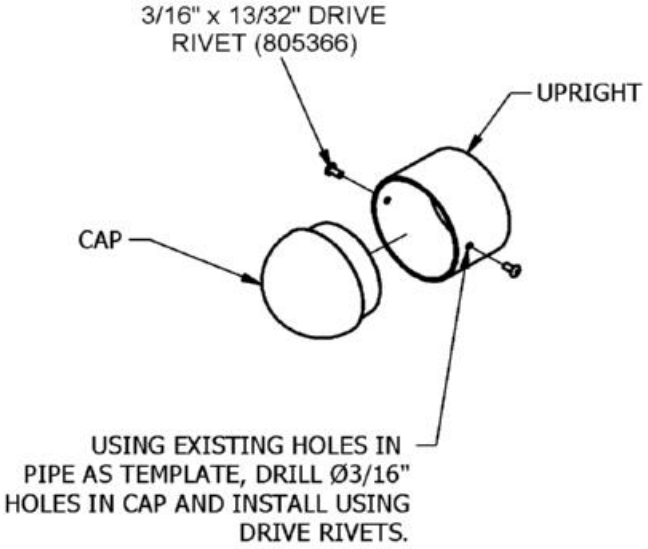








65158 ROLLER TABLE



597

This equipment is designed for children 5-12 years old

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.

Parts List			
DESCRIPTION	65179	65180	PART NUMBER
SWING HANGER (3-1/2" O.D.)	2	0	1462
SWING HANGER (5" O.D.)	0	2	1487
TWEEN SEAT	2	2	316322
DOUBLE TOT CHAIN	4	4	314928
TWEENMATES FRAME	1	1	316371
HARDWARE COMPLETE	1	1	314910
3/8" x 2" P.B.H.C.S. w/PATCH	8	8	812055
3/8" LOCK WASHER	8	8	817334
3/8" FLAT WASHER	8	8	817410
3/8" PLASTIC SPACER	8	8	817613
D SHACKLE w/NO-SNAG PIN	4	4	161853
APPROPRIATE AGE LABEL	1	1	305551
WARNING LABEL	1	1	309483

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Attach Swing Hanger (3-1/2" O.D.) to Top Rail. See Detail 218. **NOTE:** *DO NOT tighten Swing Hangers until properly spaced according to Elevation View with specific swing arrangement.*

2. Attach Tween Seat to Tweenmates Frame. See Detail 1225.

3. Attach appropriate chain to Tweenmates Frame. See Detail 421. **NOTE:** *Add Loctite to pin before attacing to tabs.*

NOTE: *If using two Tween Mates Swings in a single bay, ensure that horizontal arms of swing frames are adjacent to each other in order to prevent entering and exiting in path of adjacent swing.*

4. Attach appropriate chain to appropriate Swing Hanger. See Detail 218 or 739.

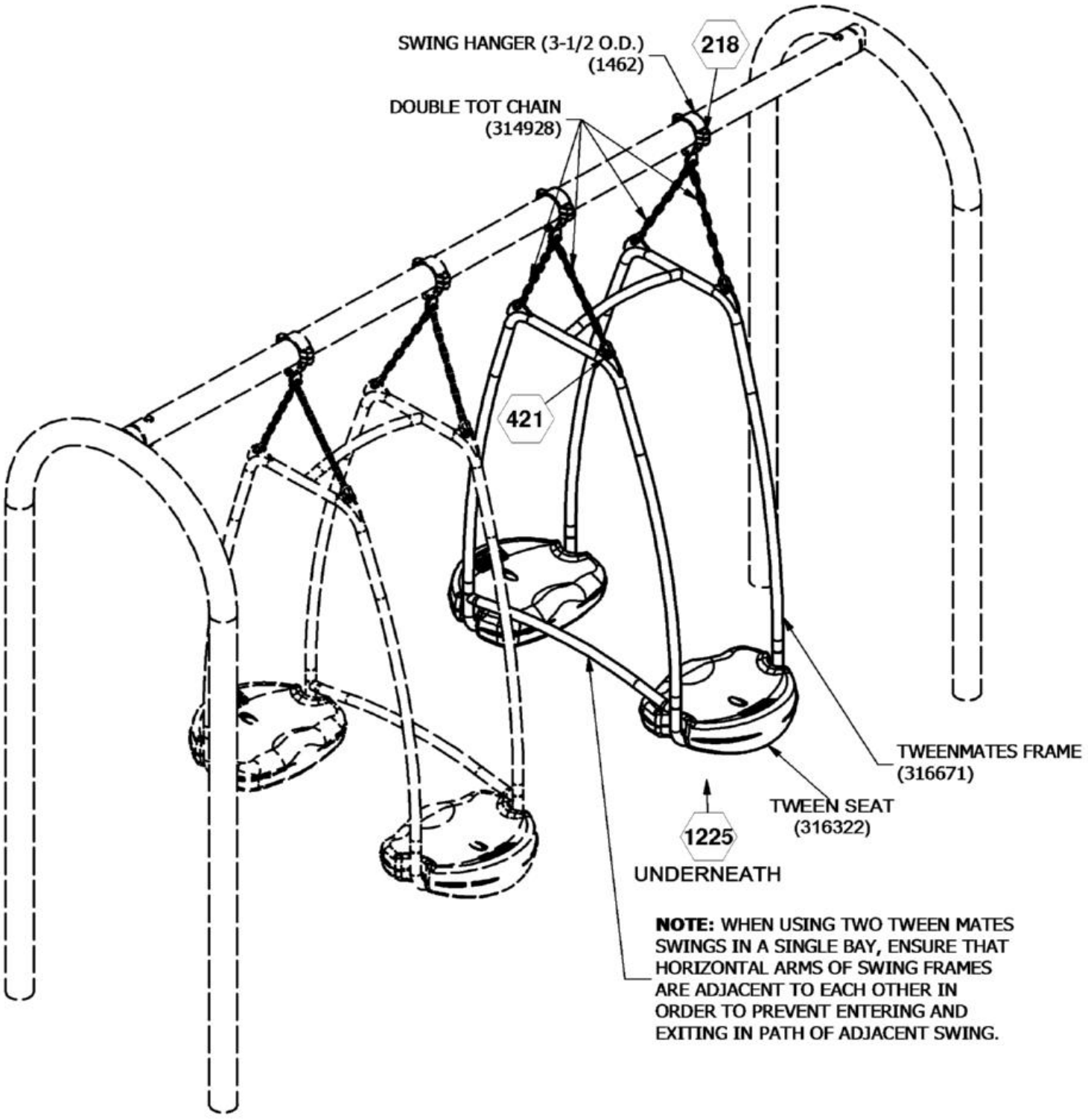
5. Plumb and level entire assembly and tighten all fasteners.

6. When structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



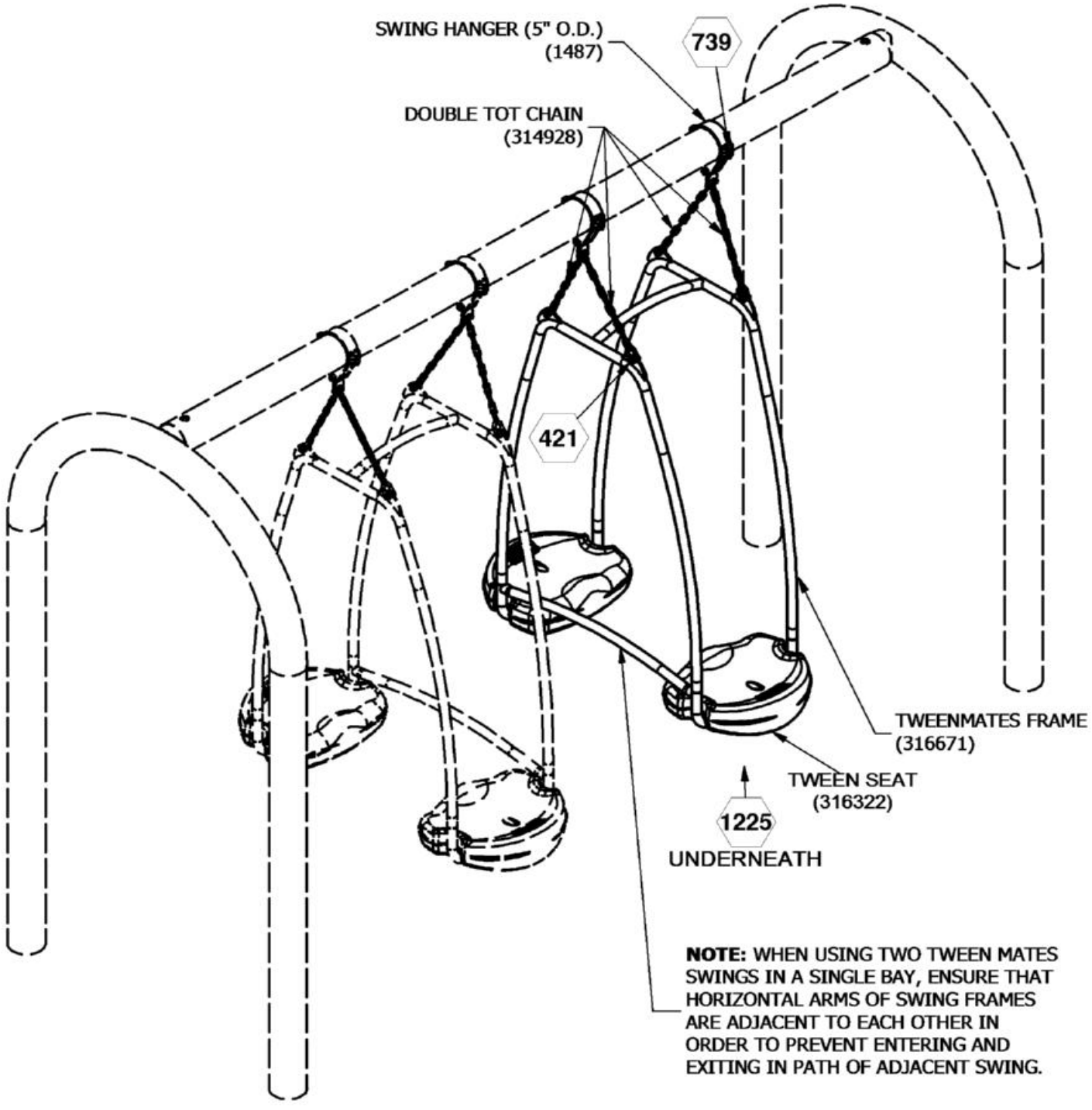
FINISHED ASSEMBLY
65179 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 6/20/2023

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



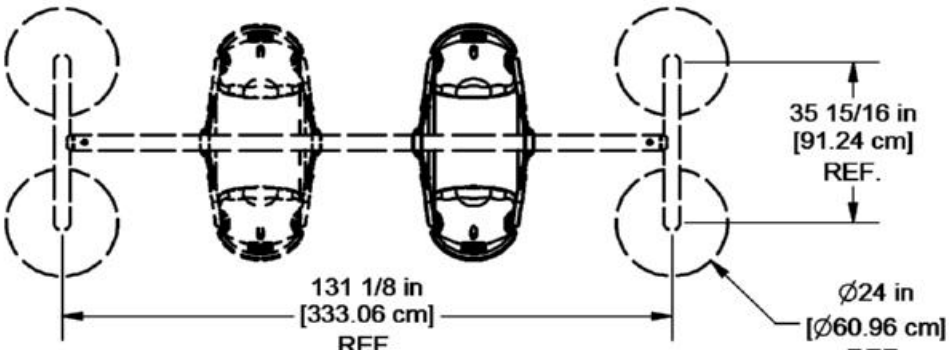
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
65180 SHOWN

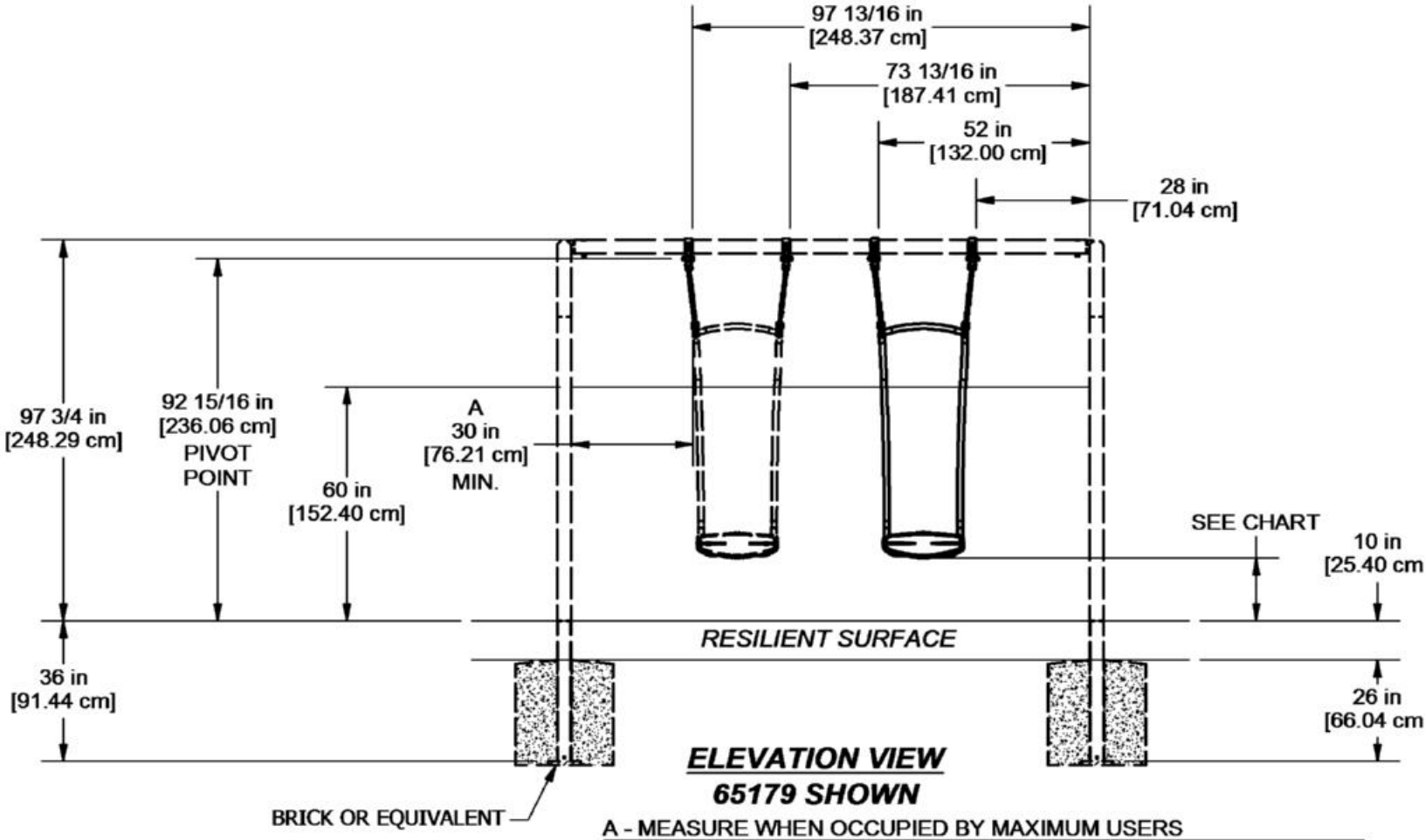
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 6/20/2023

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



PLAN VIEW



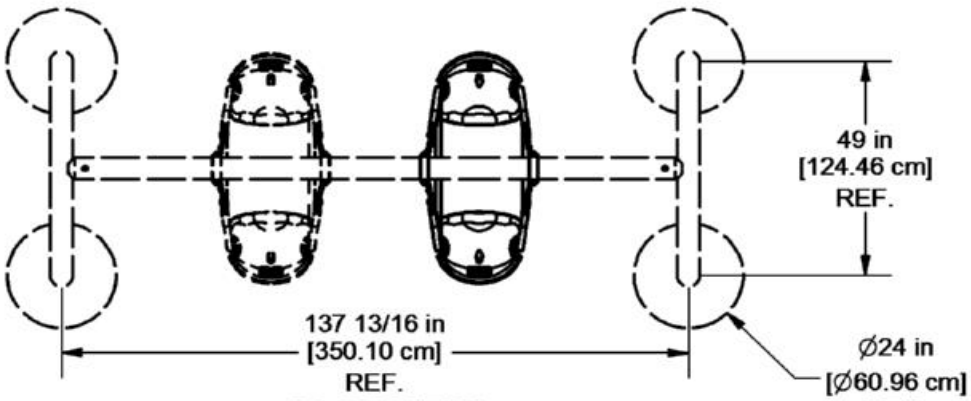
ELEVATION VIEW
65179 SHOWN

A - MEASURE WHEN OCCUPIED BY MAXIMUM USERS

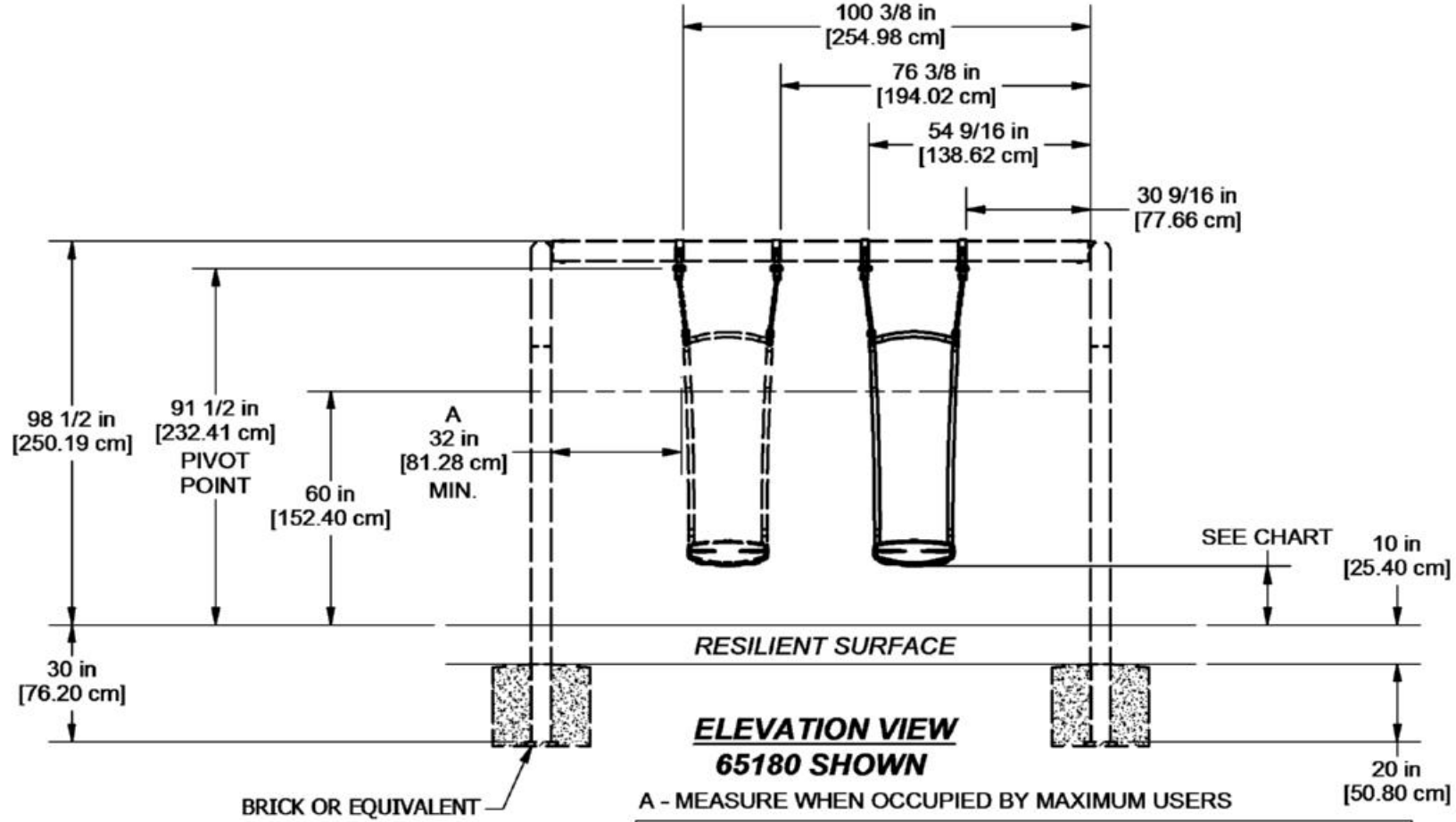
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	0'-11 13/16" [300mm]	N/A
ASTM	1'-0" [304mm]	N/A
DIN	1'-1 3/4" [350mm]	N/A
CPSC	1'-0" [304mm]	N/A

* UNDER LOAD CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



PLAN VIEW



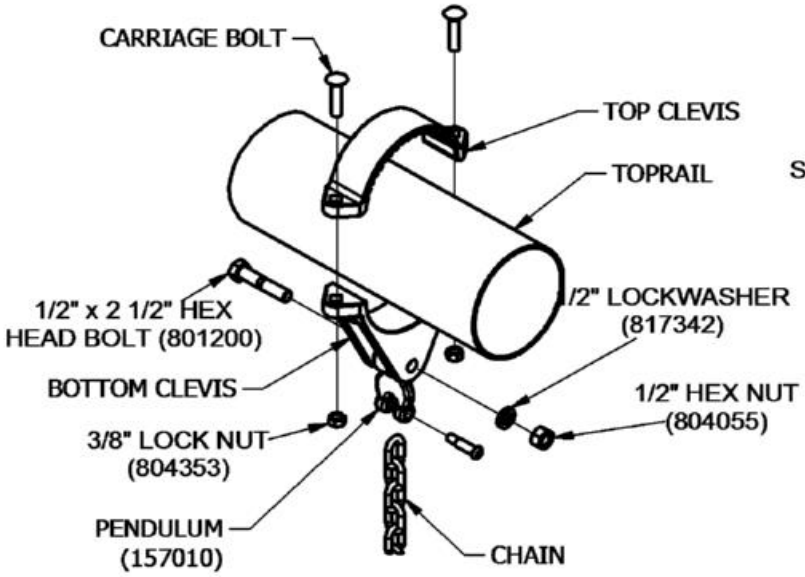
ELEVATION VIEW
65180 SHOWN

A - MEASURE WHEN OCCUPIED BY MAXIMUM USERS

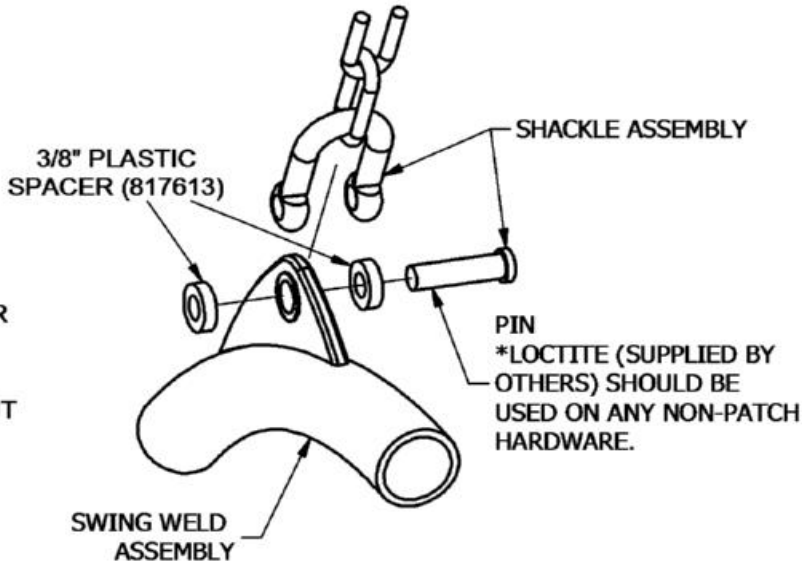
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	0'-11 13/16" [300mm]	N/A
ASTM	1'-0" [304mm]	N/A
DIN	1'-1 3/4" [350mm]	N/A
CPSC	1'-0" [304mm]	N/A

* UNDER LOAD CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.

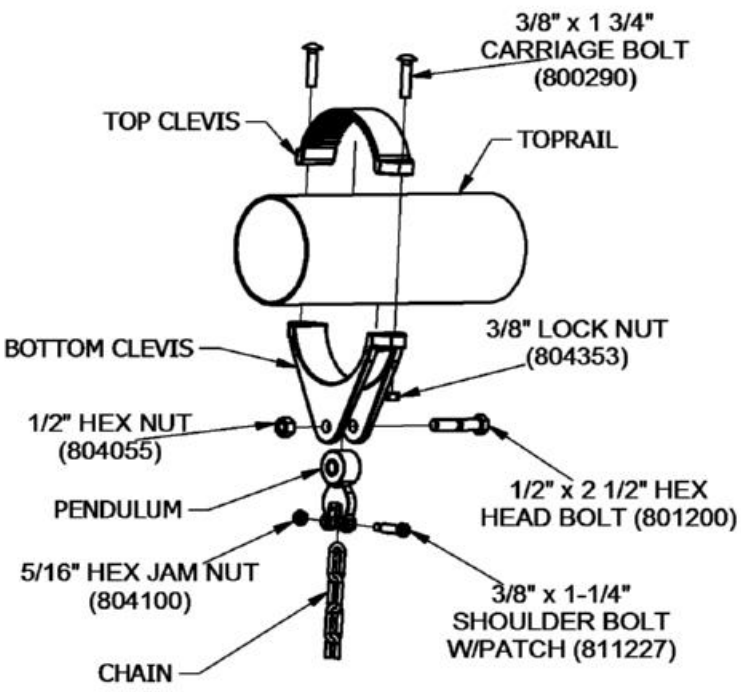


218

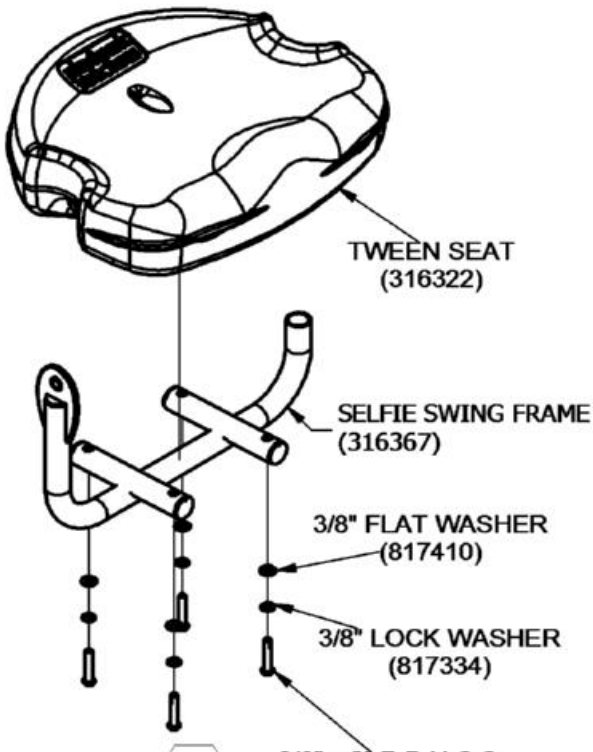


NOTE:
SPACERS LOCATED BETWEEN TAB AND INTERIOR OF SHACKLE.

421



739



1225

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE

Parts List						
DESCRIPTION	65191	65192	65193	65194	65195	PART NUMBER
NDS FITNESS SIGN	1	0	0	0	0	216564
NDS PLAY ON SIGN	0	1	0	0	0	216566
NDS INCLUSIVE PLAY SIGN	0	0	1	0	0	216568
NDS PATHWAYS FOR PLAY SIGN	0	0	0	1	0	216570
NDS NATURE GROUNDS SIGN	0	0	0	0	1	216572
SIGN POST WELD ASS'Y	1	1	1	1	1	216574
HARDWARE COMPLETE	1	1	1	1	1	216580
1/4" x 3/4" B.H.C.S.	4	4	4	4	4	811010
1/4" LOCK WASHER	4	4	4	4	4	817327
1/4" FLAT WASHER (5/8" O.D.)	4	4	4	4	4	817408
1/2" ANCHOR ROD	1	1	1	1	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

SIGN POST WELD ASSEMBLY: Shall be fabricated from 3 1/2" O.D. x .095" (13 gauge) wall galvanized steel tubing and 1/4" thick hot rolled steel mounting plate. The Sign Post Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specification outlined herein.

NDS SIGNS: The NDS Signs shall be 1/2" thick exterior DHPL with a 12 color high definition printed graphic with four 1/4"-20 UNC threaded inserts for mounting.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE

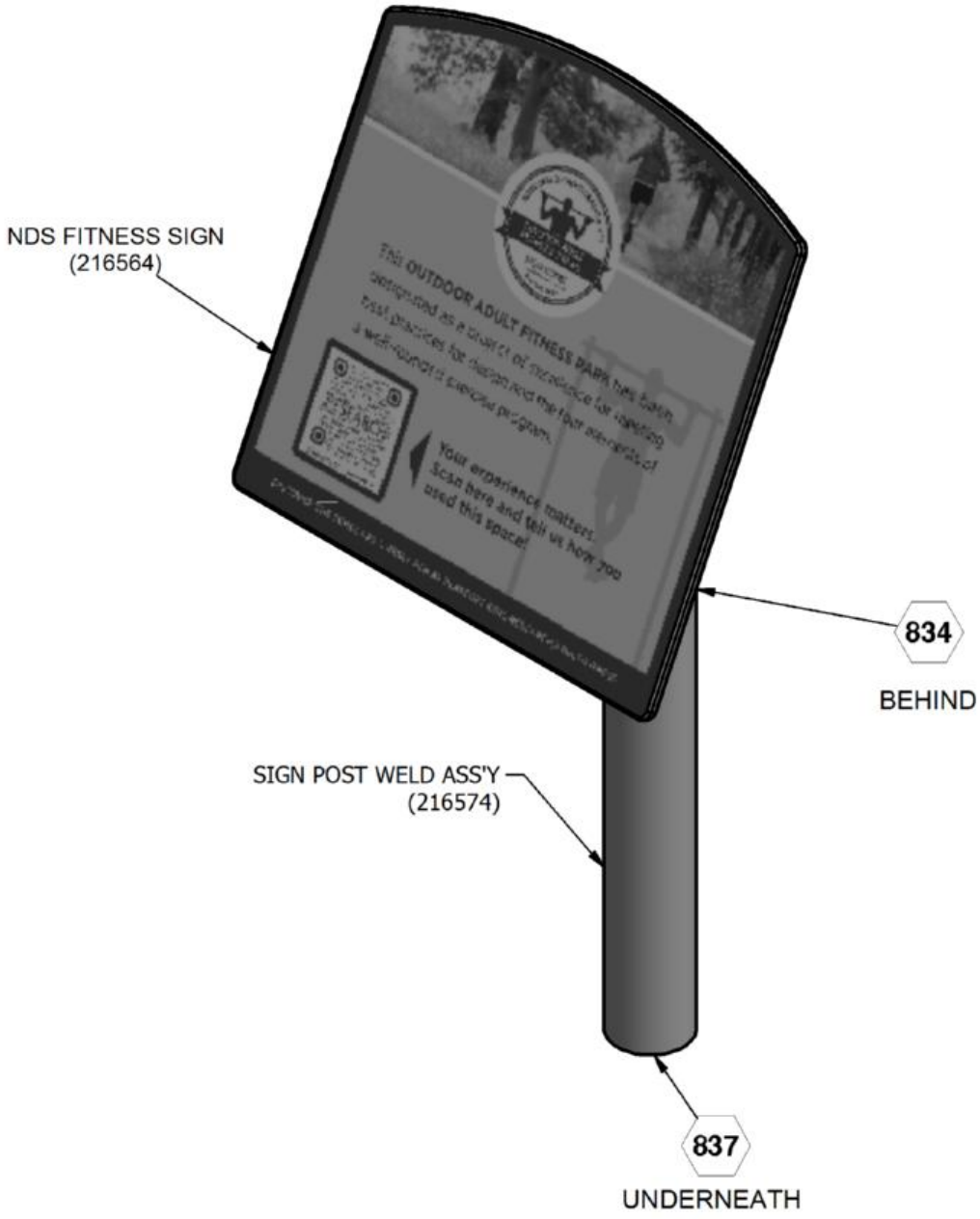
INSTALLATION INSTRUCTIONS:

1. Determine location for sign and dig footing. Refer to the Elevation View for footing depth.
2. Bolt NDS Sign into Sign Post Weld Ass'y using 1/4" x 3/4" B.H.C.S., 1/4" Lock Washer, and 1/4" Flat Washer (5/8" O.D.). See Detail 834.
3. Insert 1/2" Anchor Rod into Sign Post Weld Ass'y. See Detail 837.
4. Place Assembly into ground hole.
5. Plumb and level the entire assembly and tighten all fasteners.
6. Pour concrete footings within 4" to the top and taper away from posts for good water drainage. Allow curing at least 48 hours before proceeding.
7. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE

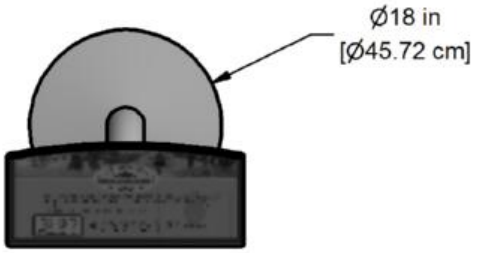


= INSTALLATION DETAIL

Issued/Revised: 2/21/2019

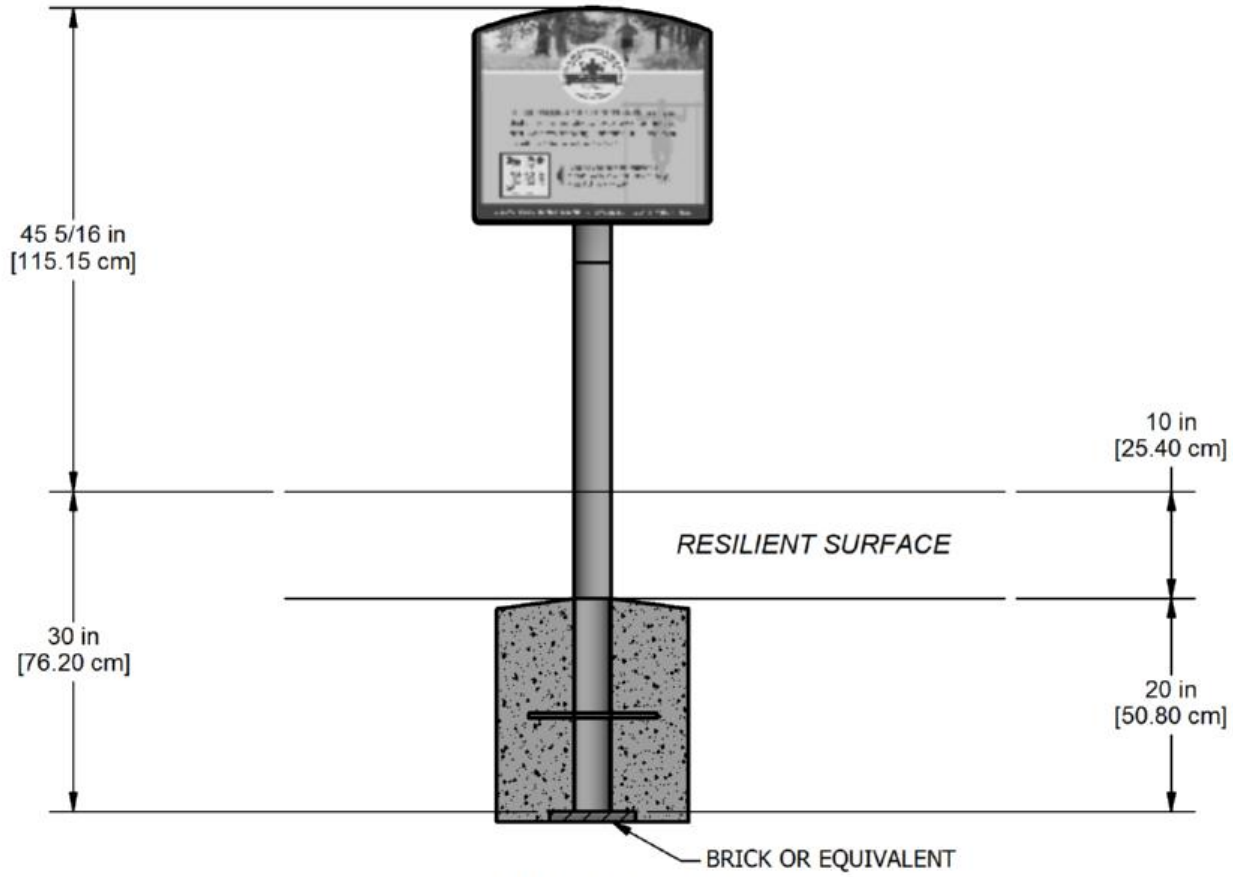
FINISHED ASSEMBLY
65191 SHOWN

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS NATURE GROUNDS SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE



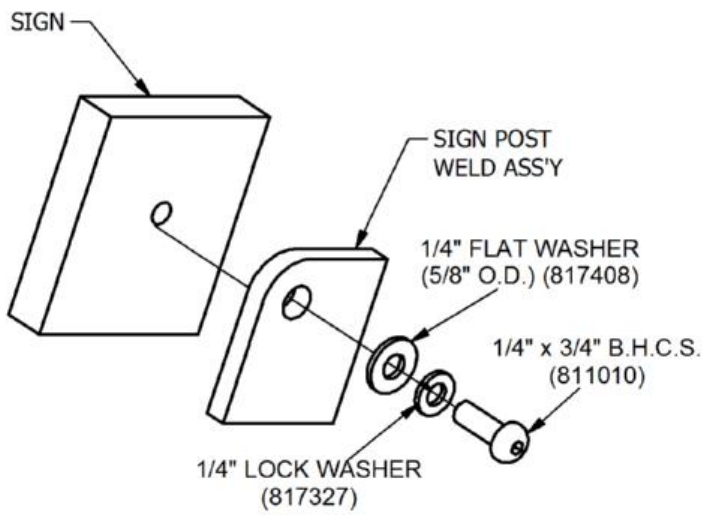
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]

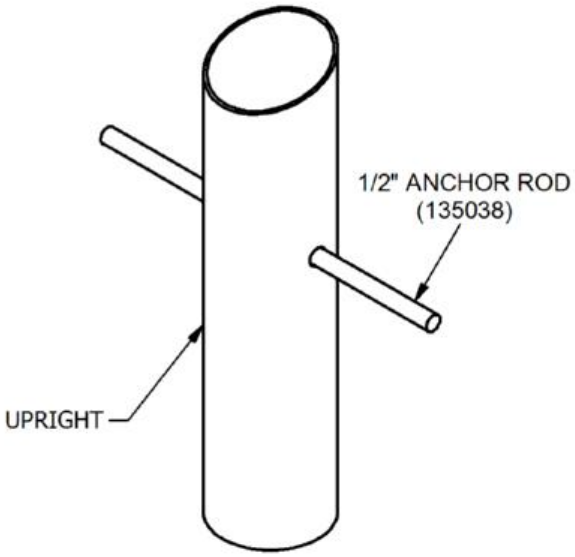


ELEVATION VIEW
65191 SHOWN

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE



834



837

65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65280
65281

Parts List				
DESCRIPTION	65280	65281	65282	PART NUMBER
BUTTON STEP	1	1	1	315509
FOOTBUCK 10"	1	0	0	316196
FOOTBUCK 20"	0	1	0	316200
FOOTBUCK 30"	0	0	1	316203
HARDWARE COMPLETE	1	1	1	316198
3/8" x 1" P.B.H.C.S. w/PATCH	4	4	4	812050
3/8" LOCK WASHER	4	4	4	817334
3/8" FLAT WASHER	4	4	4	817410



65282

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

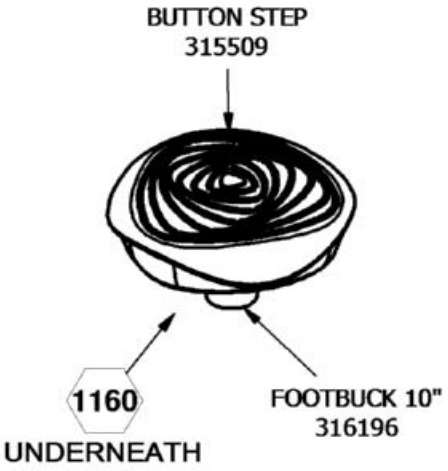
INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Button Step. Refer to order top view.
2. Dig required holes, refer to elevation view and order plan view for correct location and size.
3. Attach Button Step to correct Footbuck. Refer to order parts list. See Detail 1160.
4. Place Footbuck and Button Step assembly into hole.
5. Plumb and level the entire assembly and tighten all fasteners.
6. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure for at least 48 hours before use. Temporary may be required until concrete cures.

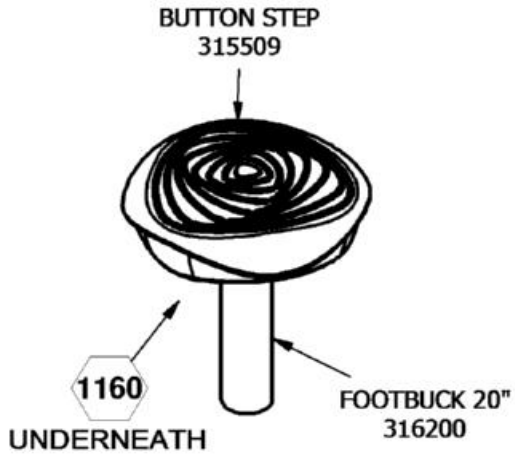
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

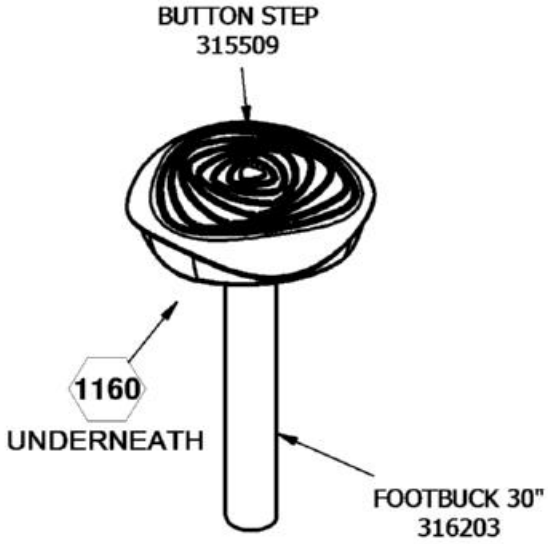
65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65280 SHOWN

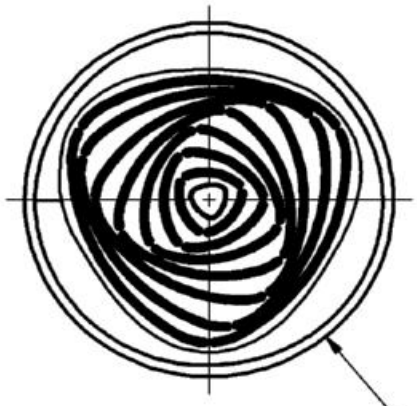


65281 SHOWN



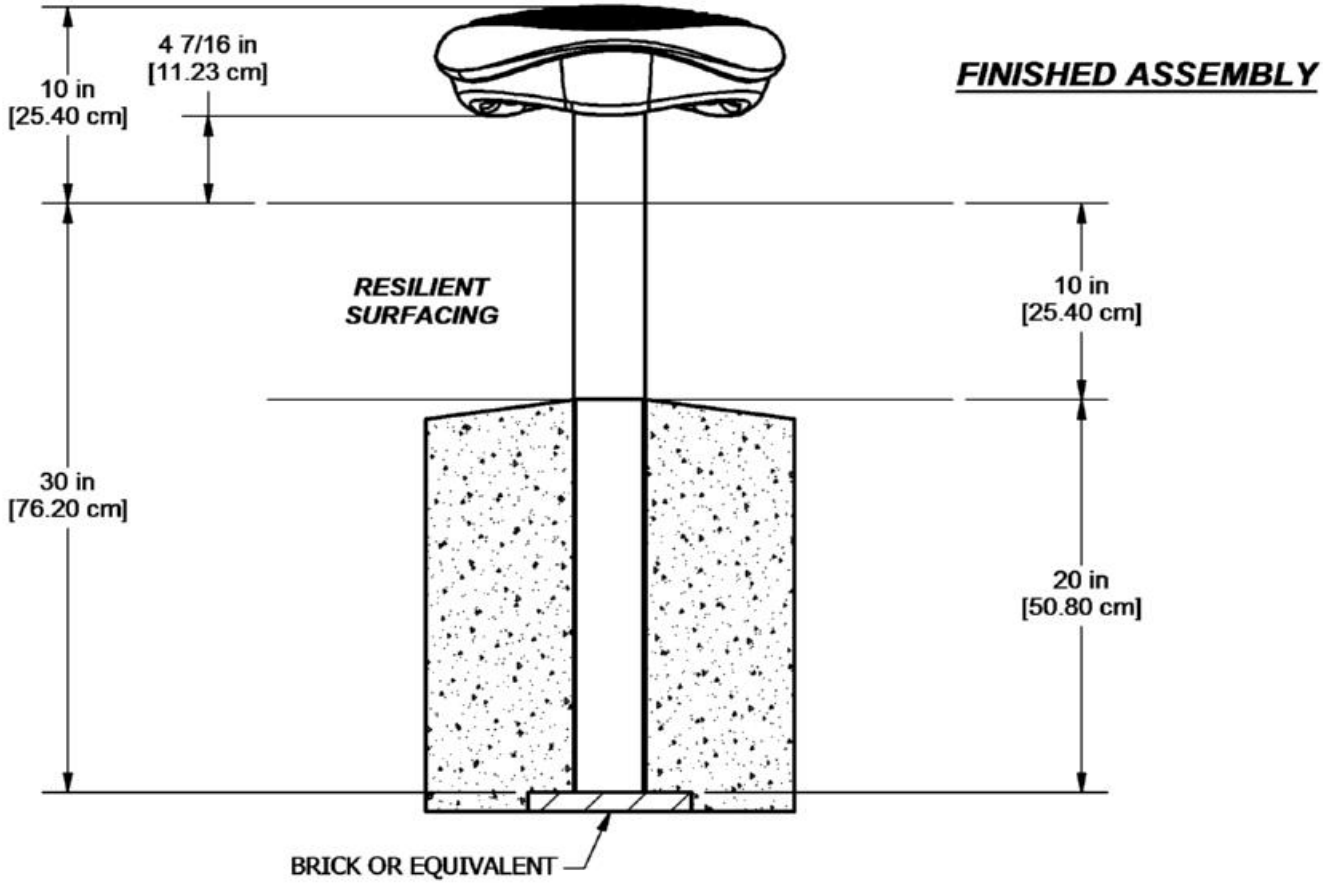
65282 SHOWN

65280 BUTTON STEP 10"



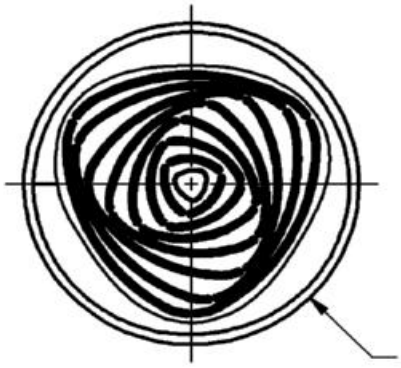
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



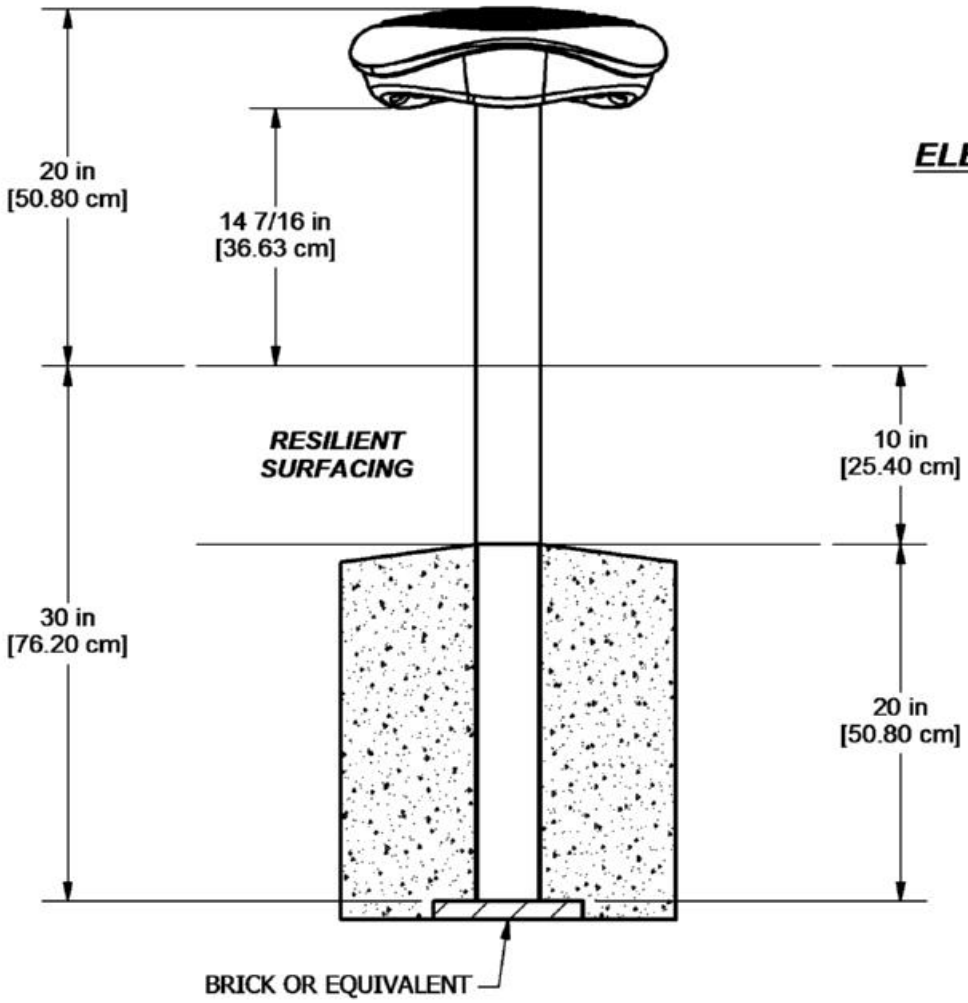
FINISHED ASSEMBLY

65281 BUTTON STEP 20"



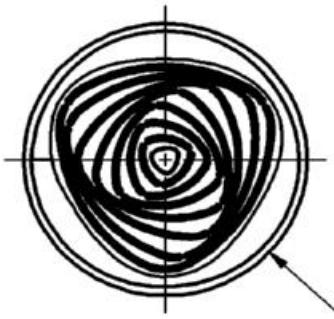
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



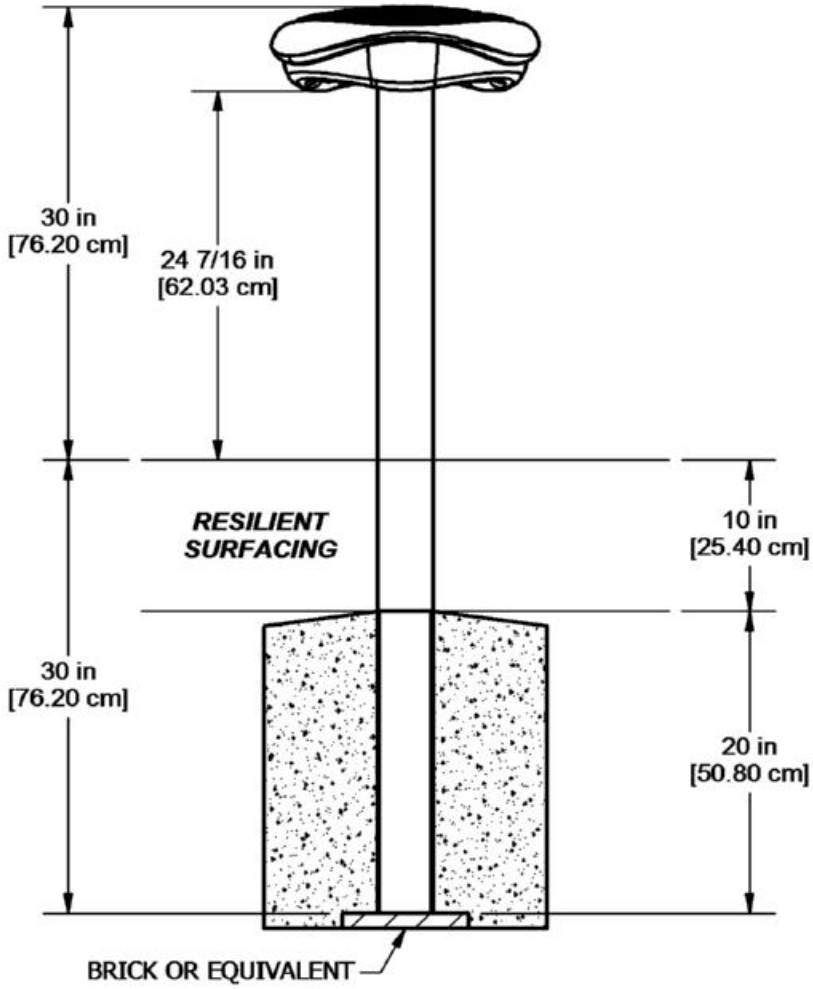
ELEVATION VIEW

65282 BUTTON STEP 30"



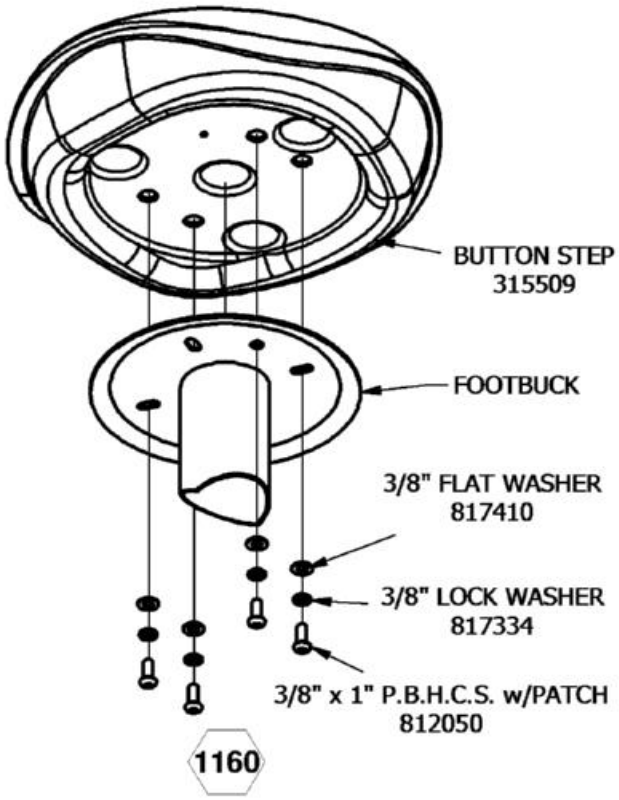
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



ELEVATION VIEW

65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12

Parts List				
DESCRIPTION	65288	65290	65291	PART NUMBER
HPL WELCOME SIGN 5 - 12	1	0	0	316380
HPL WELCOME SIGN 2 - 5	0	1	0	316628
HPL WELCOME SIGN 2 - 12	0	0	1	316629
WELCOME SIGN WELDMENT	1	1	1	316382
HARDWARE COMPLETE	1	1	1	316385
1/4" x 1/2" B.H.C.S. w/PATCH	3	3	3	812011
1/4" LOCK WASHER	3	3	3	817327
1/4" FLAT WASHER (5/8" O.D.)	3	3	3	817408
1/2" ANCHOR ROD	1	1	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

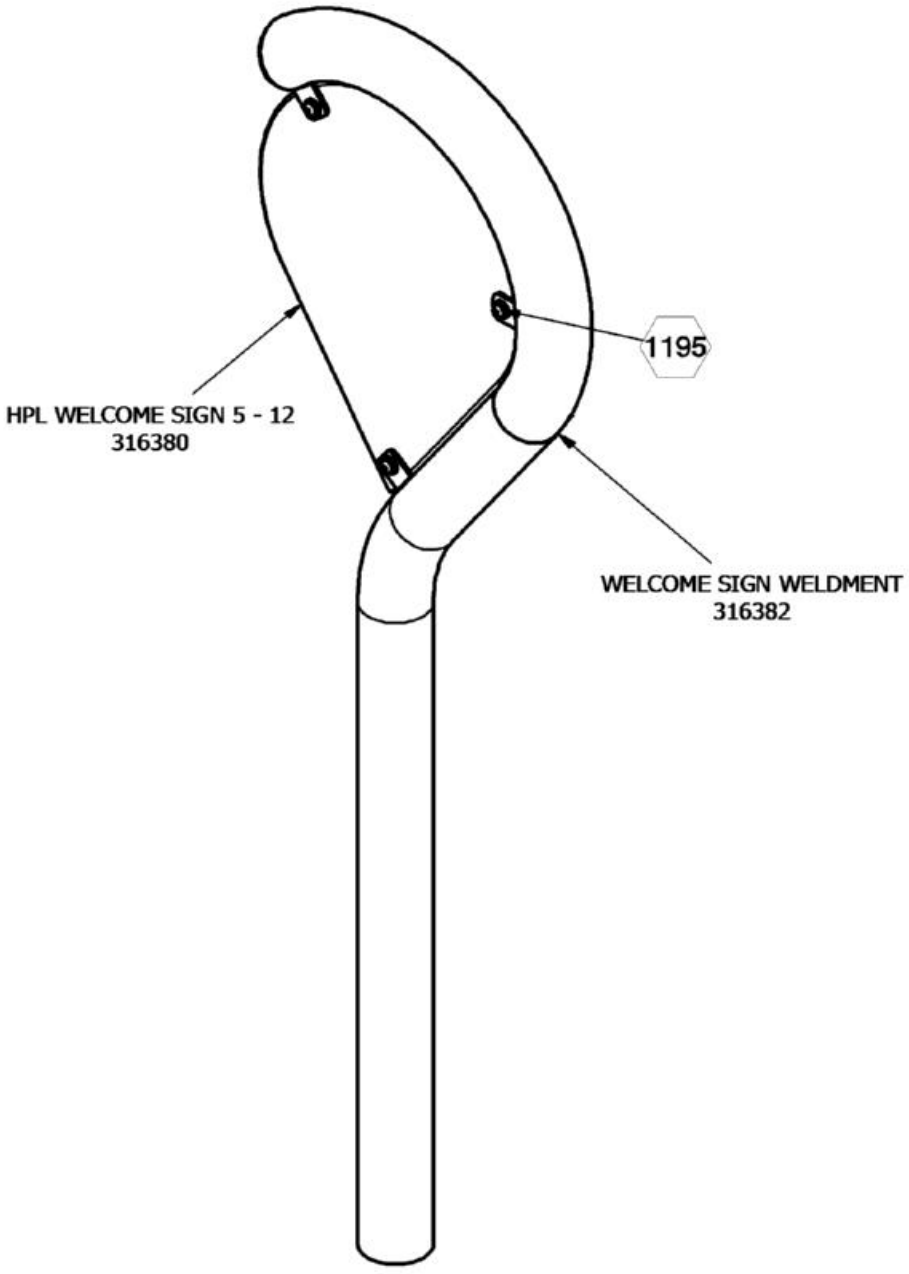
INSTALLATION INSTRUCTIONS:

1. Determine location of Welcome Sign and dig footing hole. Refer to order Top View and Elevation View.
2. Attach the H.P.L. Welcome Sign to the Welcome Sign Weldment. See Detail 1195.
3. Place Welcome Sign Weldment into footing hole.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After the entire unit is assembled, pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure for at least 48 hours before use. Note: Temporary bracing may be required until concrete cures.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



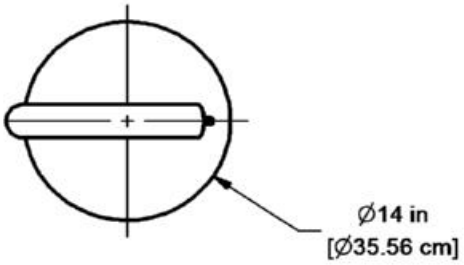
⬡ = INSTALLATION DETAIL

Issued/Revised: 6/1/2023

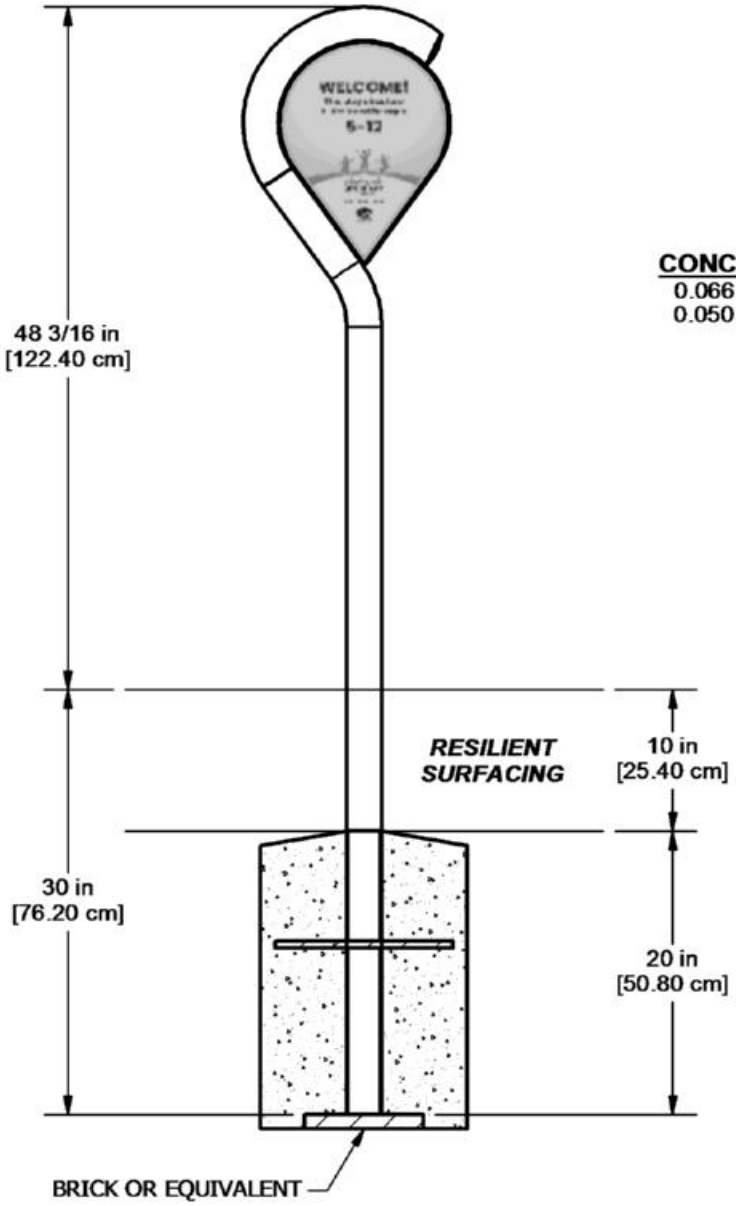
FINISHED ASSEMBLY

65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



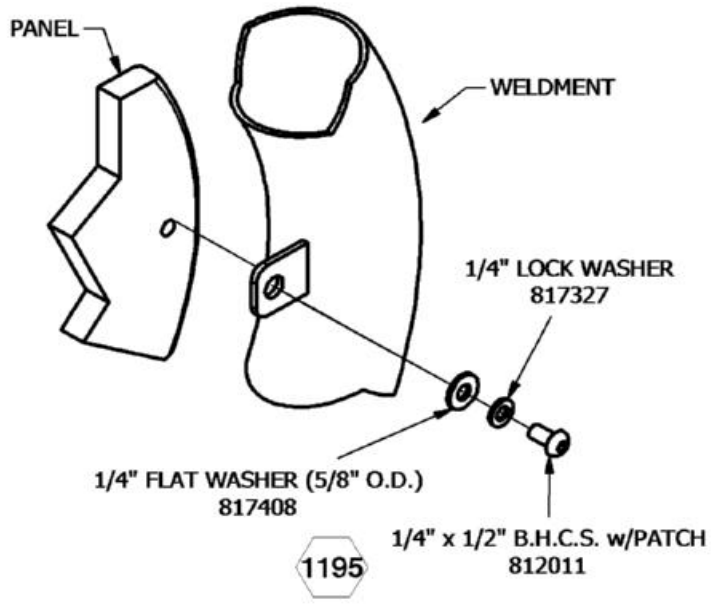
PLAN VIEW
65288 SHOWN



CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

ELEVATION VIEW
65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

PARTS LIST

DESCRIPTION	NO. REQ'D 67558	NO. REQ'D 67620	PART NUMBER
3-1/2" O.D. Toprail	1	1	168622
Arch End Upright Ass'y	2	0	152803
Multi-Bay Arch Upright Ass'y	0	1	152805
Hardware Complete	1	1	303587
1/2" x 4" Hex Bolt	2	2	801215*
1/2" Lockwasher	2	2	817342*
1/2" Hex Nut	2	2	804055*
1/2" Flatwasher	2	2	817412*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

Primary hardware is stainless steel.

INSTALLATION INSTRUCTIONS:

1. Refer to your site plan; select the area where the Arch Swing will be installed. Note that although the actual area of the Toprail are 3'-4" X 12'-9" a minimum of 16' is required in front of and behind swing, and 6' is required to each side, for a total of 32' X 24'-5". This area should be clear of all obstacles and contain an appropriate resilient surface material. Please refer to your *Safety Guidelines* for more information.

2. Dig footings spaced as shown on the diagram. Footing diameters should be 24". Calculate depth depending on the amount of resilient surfacing which will be installed. A depth of 10" resilient surfacing is shown on the elevation view. If you determine that less than 10" of surfacing is required, make up the difference with earth before applying surfacing.

3. Set the Post Arches in to their footing and block in position with sleeves facing each other.

4. Attach Swing Beams to the post arches as shown in detail 'A' and temporarily secure with a 1/2" x 4" Hex Head Bolts each sleeve. Adjust post arches heights so that the top beam is 8'-1 3/4" above the finished ground level.

5. Square and level entire Swing Beam assembly. When satisfactory, fully tighten all bolts and follow support post instructions for concrete. DO NOT ATTACH SEAT SWING ASSEMBLIES UNTIL RESILIENT SURFACING HAS BEEN INSTALLED.

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

6. ONLY AFTER ALL RESILIENT SURFACE MATERIAL HAS BEEN INSTALLED, attach the Swing Seat Packages to the top beams as instructed on Installation Sheet for Swing Seats. FULLY CRIMP SHUT ALL 'S' HOOKS as per specification by ASTM F 1487 for Entanglement.

7. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

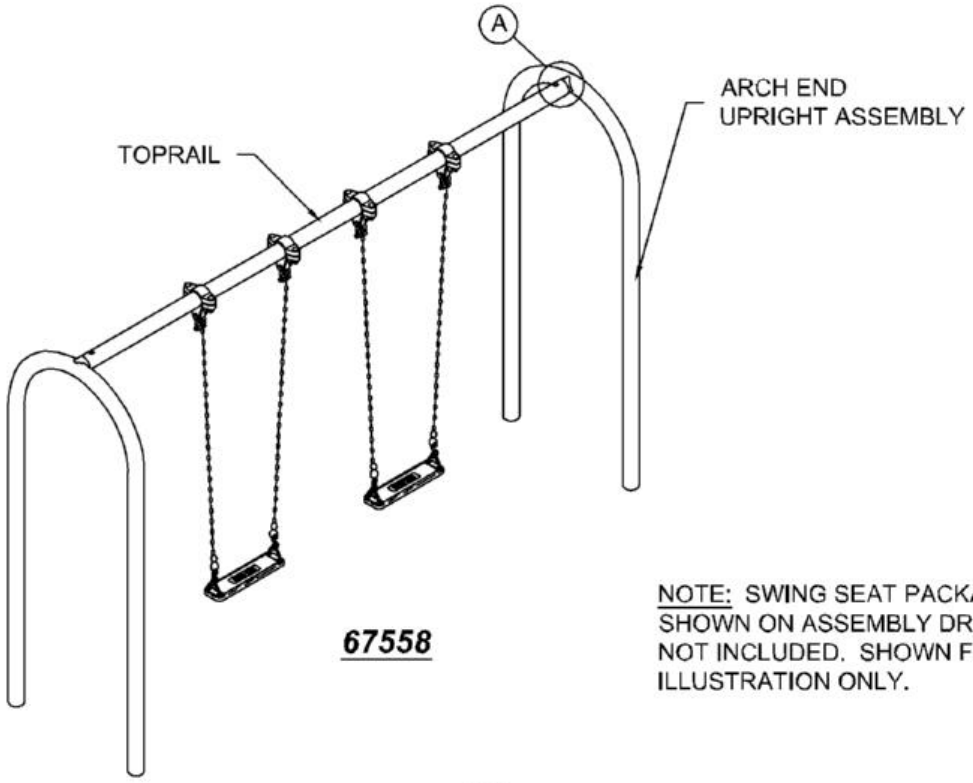
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check 'S' Hooks at both ends and all connection points for wear. Check all moving parts such as bushings, hangers and chain for wear. Check opening on 'S' Hooks for entanglement as specified by ASTM F-1487 Section 6.3. Check Strap seats for cracks, breakage or wear, and verify proper height. Check Chains for integrity and corrosion. Check connections for excessive wear and replace immediately if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Model No: _____

Desc: _____

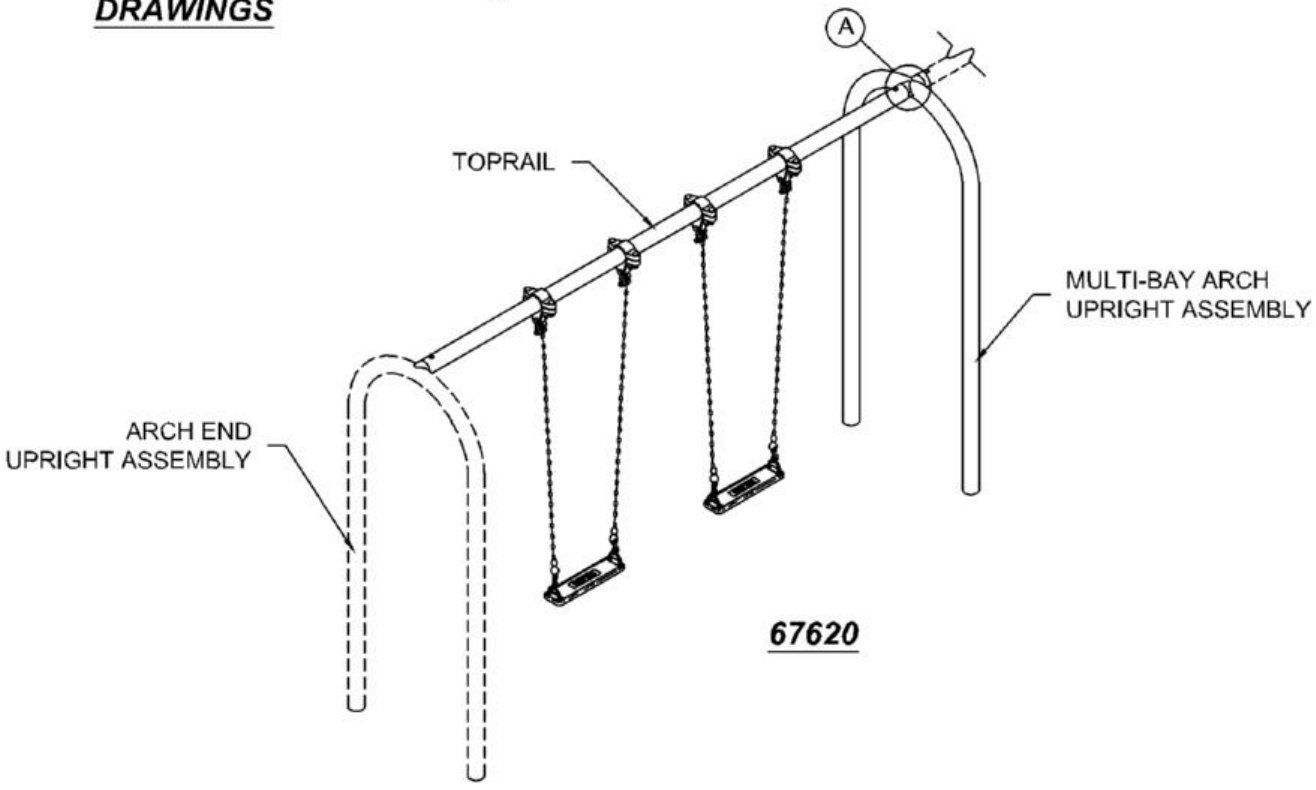
67558 3 1/2" O.D. ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ARCH SWING ADD-A-BAY

ASSEMBLY DRAWINGS



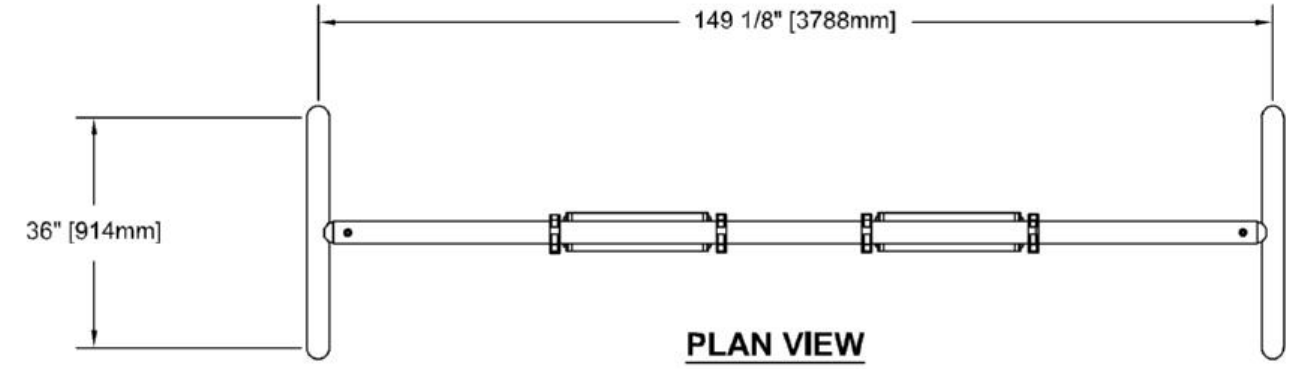
67558

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

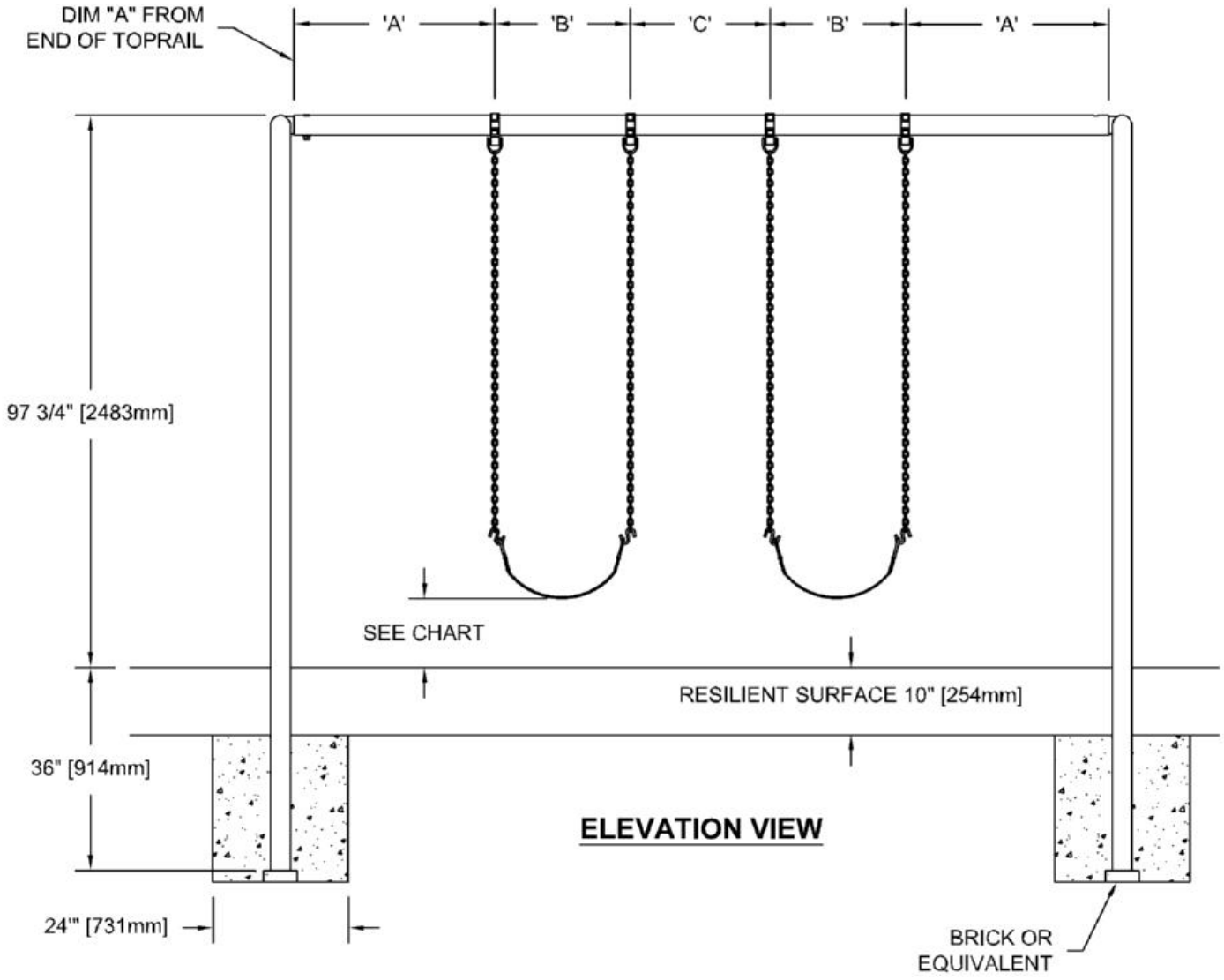


67620

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



PLAN VIEW



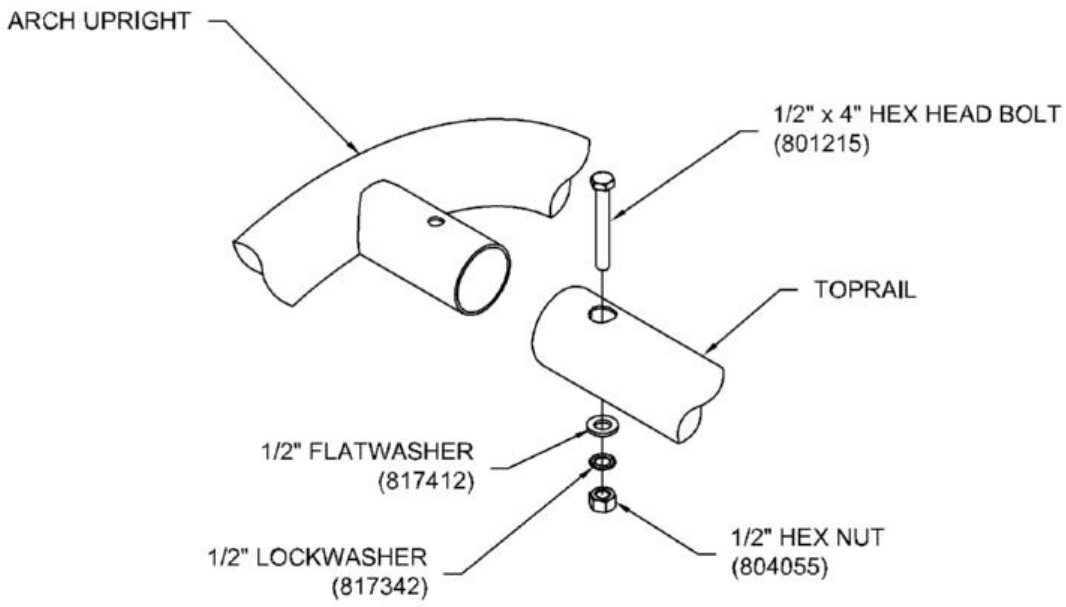
ELEVATION VIEW

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

TOPRAIL DIMENSIONS	
DIM. A	32" [813mm]
DIM. B	26" [660mm]
DIM. C	28" [711mm]

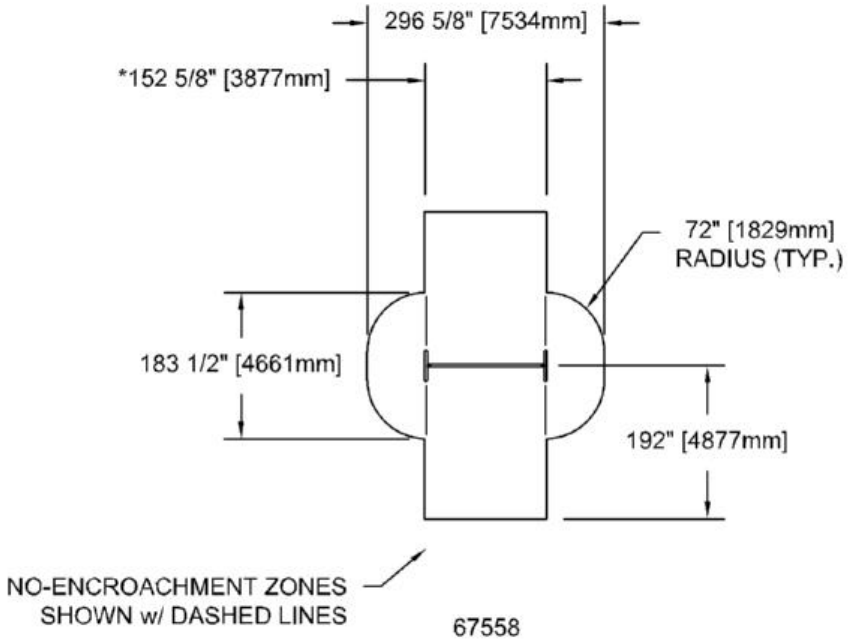
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	**MIN.**	**MAX.**
CANADIAN	STRAP - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	STRAP - 12" [305mm] ENCLOSED TOT SEAT- 24" [610mm]	N/A

MEASURED WHEN OCCUPIED BY MAXIMUM USERS

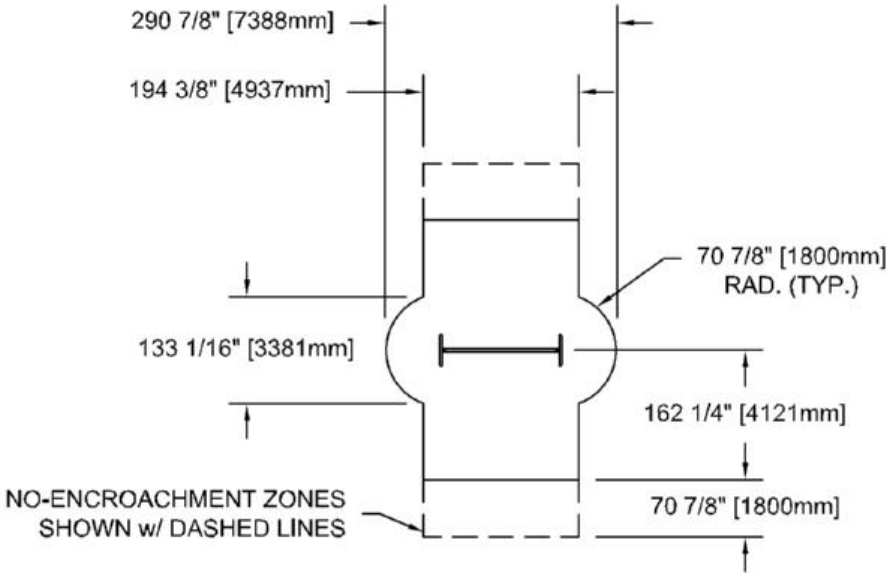


DETAIL 'A': TOPRAIL TO ARCH CONNECTION

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



67558



67558 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 149 1/8" [3788mm].

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made -for- Me Swing Seat w/S.S. Chain

PARTS LIST

DESCRIPTION	Number Required				PART NUMBER
	67915	S67915	67916	S67916	
Made-for-Me Swing Seat Assembly (5 - 12)	1	1	1	1	178486
Seat Brace (Beige)	1	1	1	1	214733**
Seat Latch (Beige)	1	1	1	1	178484**
Hardware Complete	1	0	0	0	178860
Hardware Complete	0	1	0	0	178861
Hardware Complete	0	0	1	0	178858
Hardware Complete	0	0	0	1	178859
Galvanized Chain, 122 3/4" Lg.	2	0	0	0	178807*
Stainless Steel Chain, 122 3/4" Lg.	0	2	0	0	178808*
Galvanized Chain, 170" Lg.	0	0	2	0	178809*
Stainless Steel Chain, 170" Lg.	0	0	0	2	178810*
3/8" x 1 1/4" P.B.H.C.S. w/ Patch	2	2	2	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/ Patch	2	2	2	2	812054*
3/8" Lockwasher	4	4	4	4	817334*
3/8" Flatwasher	2	2	2	2	817410*
3/8" Flatwasher (1-1/4" O.D.)	2	2	2	2	817424*
3/8" Barrel Nut	2	2	2	2	804804*
Swing Hanger	2	2	2	2	1462*
Spacer	2	2	2	2	179390*

Unless Otherwise Specified, All Units of Measure are Each
***Included in Hardware** ***Included in Seat Assembly**

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

SPECIFICATIONS:

All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

INSTALLATION INSTRUCTIONS:

1. Remove 3/8" x 3/4" Hex Head Bolts from seat and discard.

2. Attach appropriate chain to top of seat using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher and 3/8" Flatwasher (1 ¼" O.D.), and spacer. See Detail 297.

3. Connect chain to bottom of seat using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, 3/8" Flatwasher and 3/8" Barrel Nut. See Detail 296.

4. Connect assembled Swing Seat to swing hanger using 3/8" x 1" Shoulder Bolt. Refer to Detail 298.

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain

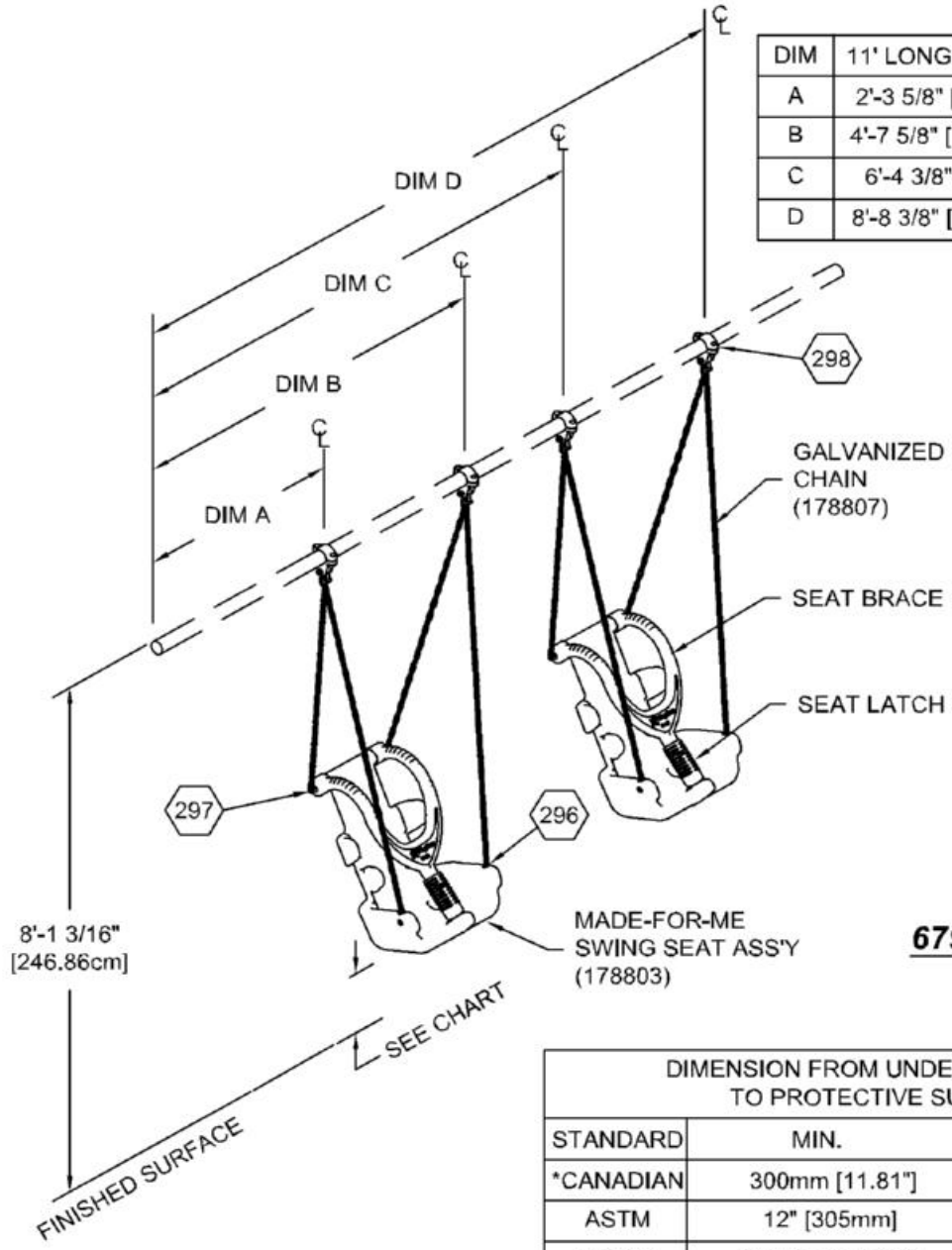
5. Attach Swing Seat Assembly to top rail using 3/8" x 2" Carriage Bolt and 3/8" Lock Nut. See Detail 298 . Refer to Finished Assembly drawing for swing seat spacing.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check 'S' Hooks at both ends and all connection points for wear. Check all moving part such as hangers for wear. Check 'S' Hooks as specified by ASTM F 1487 SECTION 6.3 for Entanglement. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain

DIM	11' LONG TOP RAIL	12' LONG TOP RAIL
A	2'-3 5/8" [70.17cm]	2'-9 5/8" [85.41cm]
B	4'-7 5/8" [141.29cm]	5'-1 5/8" [156.53cm]
C	6'-4 3/8" [194cm]	6'-10 3/8" [209.24cm]
D	8'-8 3/8" [265.12cm]	9'-2 3/8" [28.36cm]



67915 VERSION
(SHOWN)

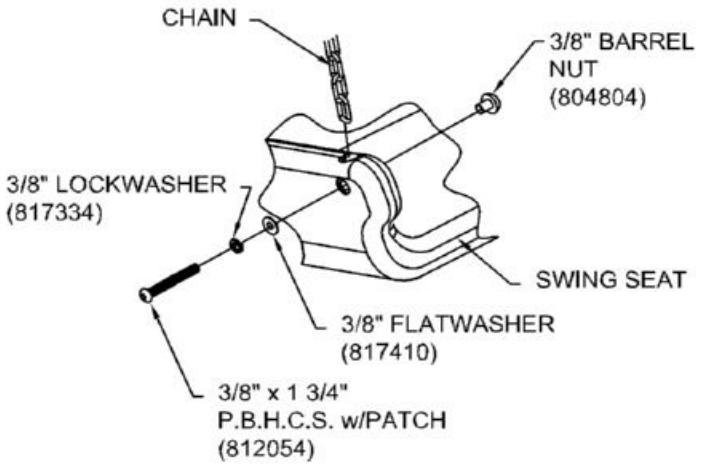
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	12" [305mm]	N/A

* UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

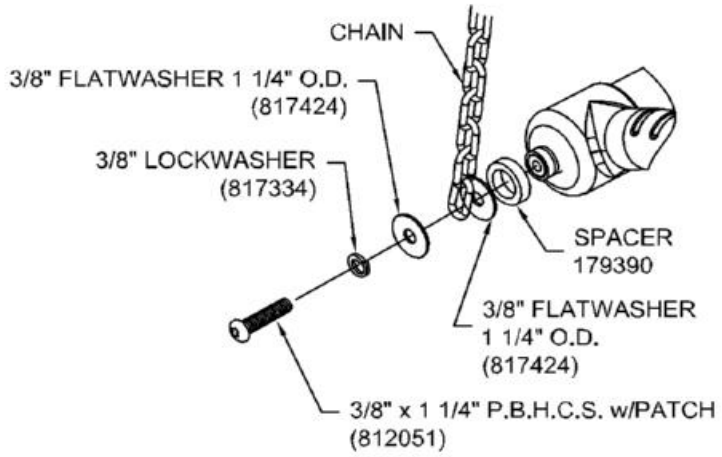
⬡ = ***INSTALLATION DETAIL***

FINISHED ASSEMBLY

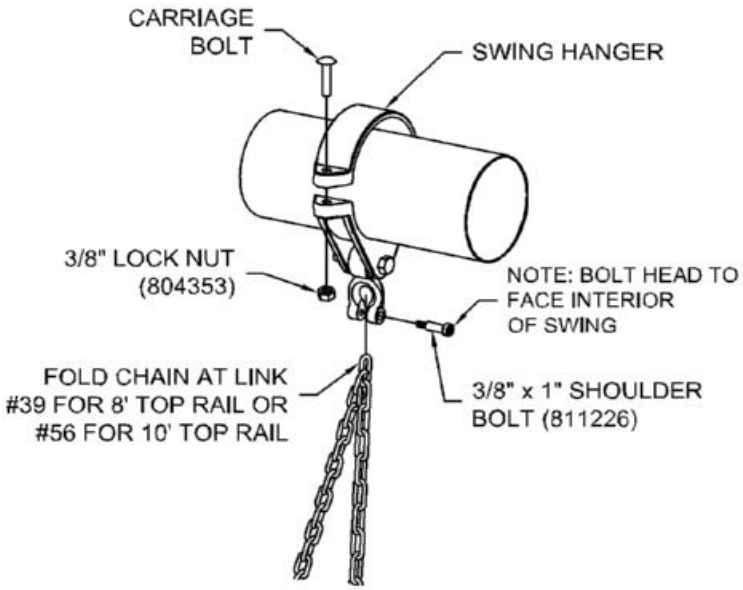
MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain



296



297



298

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

Parts List				
ITEM	DESCRIPTION	68034	68035	PART NUMBER
1	3 1/2" O.D. TOPRAIL	1	1	208806
2	ARCH END UPRIGHT ASS'Y	2	0	152803
3	MULTI-BAY ARCH UPRIGHT ASS'Y	0	1	152805
	HARDWARE COMPLETE	1	1	303587
	1/2" x 4" HEX HEAD BOLT	2	2	801215*
	1/2" FLAT WASHER	2	2	817412*
	1/2" LOCKWASHER	2	2	817342*
	1/2" HEX NUT	2	2	804055*

Unless Otherwise Specified, All Units of Measure are Each
** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

1. Dig holes according to the Ground Plan. See Detail 005. Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth. See Detail 005.

2. Insert toprail onto socket on the arch and secure. See Detail 020.

3. Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

4. Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

5. Place swing hangers on toprail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

6. After assembly is complete, place manufacturer's I.D. label in a visible location.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

STOP IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS STOP

☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ PLAY & PARK STRUCTURES® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of PLAY & PARK STRUCTURES® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

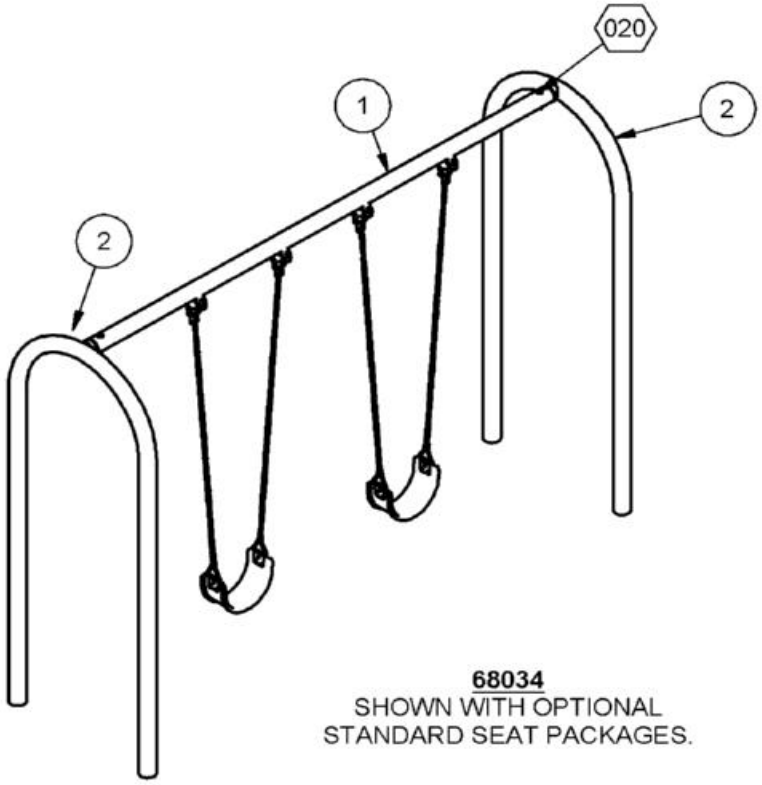
☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

☐ Never use PLAY & PARK STRUCTURES playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

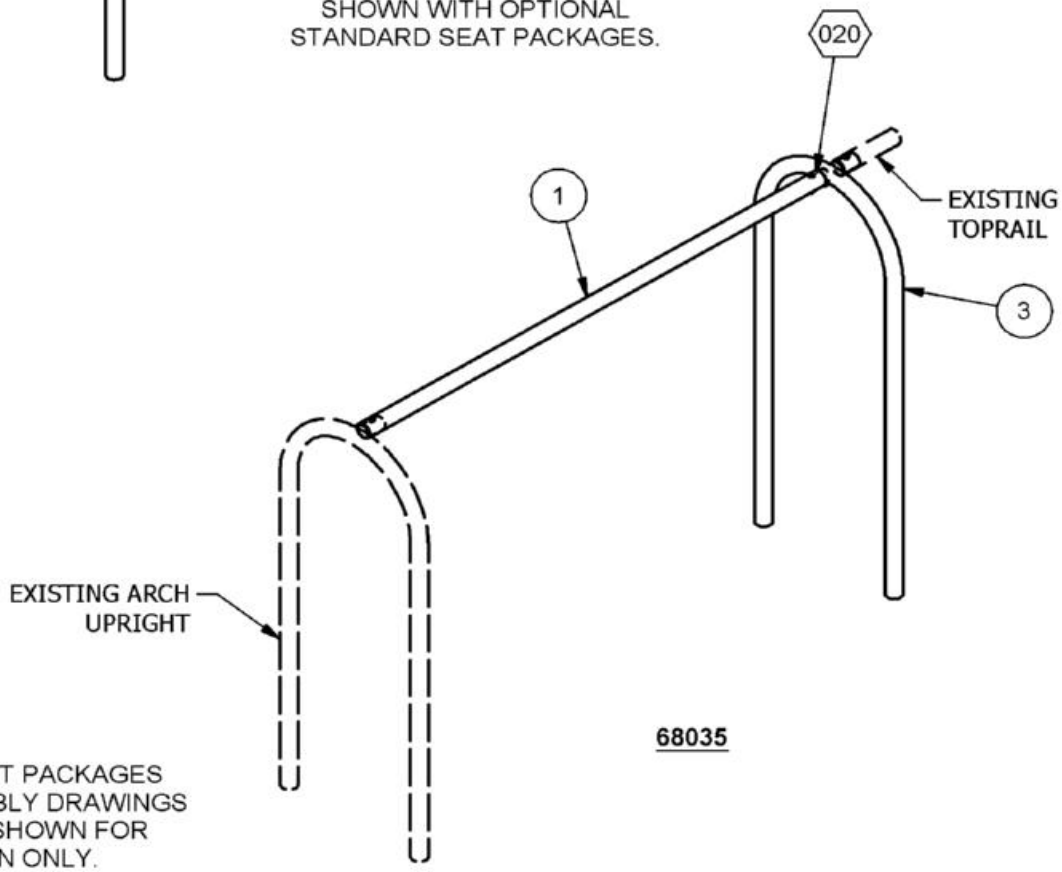
☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



ASSEMBLY DRAWINGS

68034
SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGES.

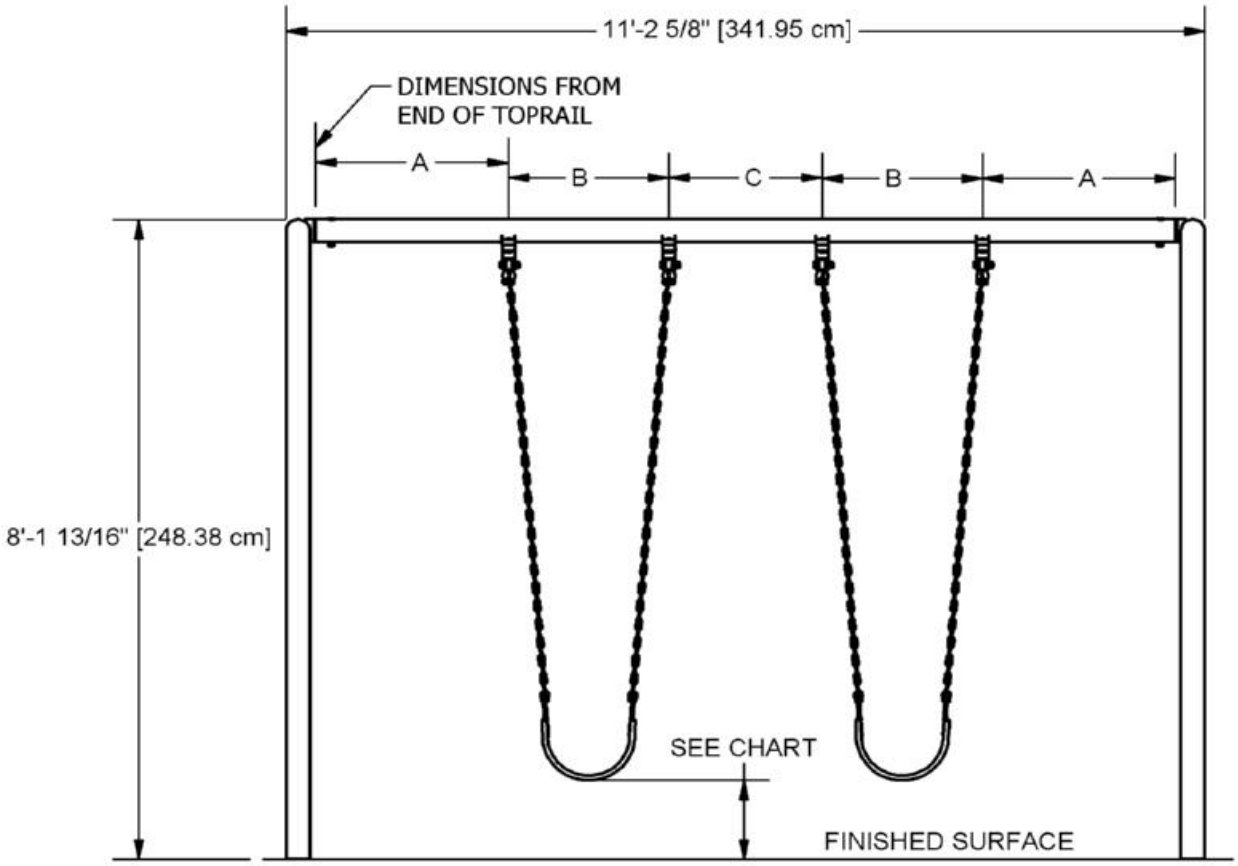


68035

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

TOPRAIL DIMENSIONS	
DIM A	2'-4 1/4" [71.80 cm]
DIM B	1'-11 1/2" [59.69 cm]
DIM C	1'-10 7/16" [57.07 cm]

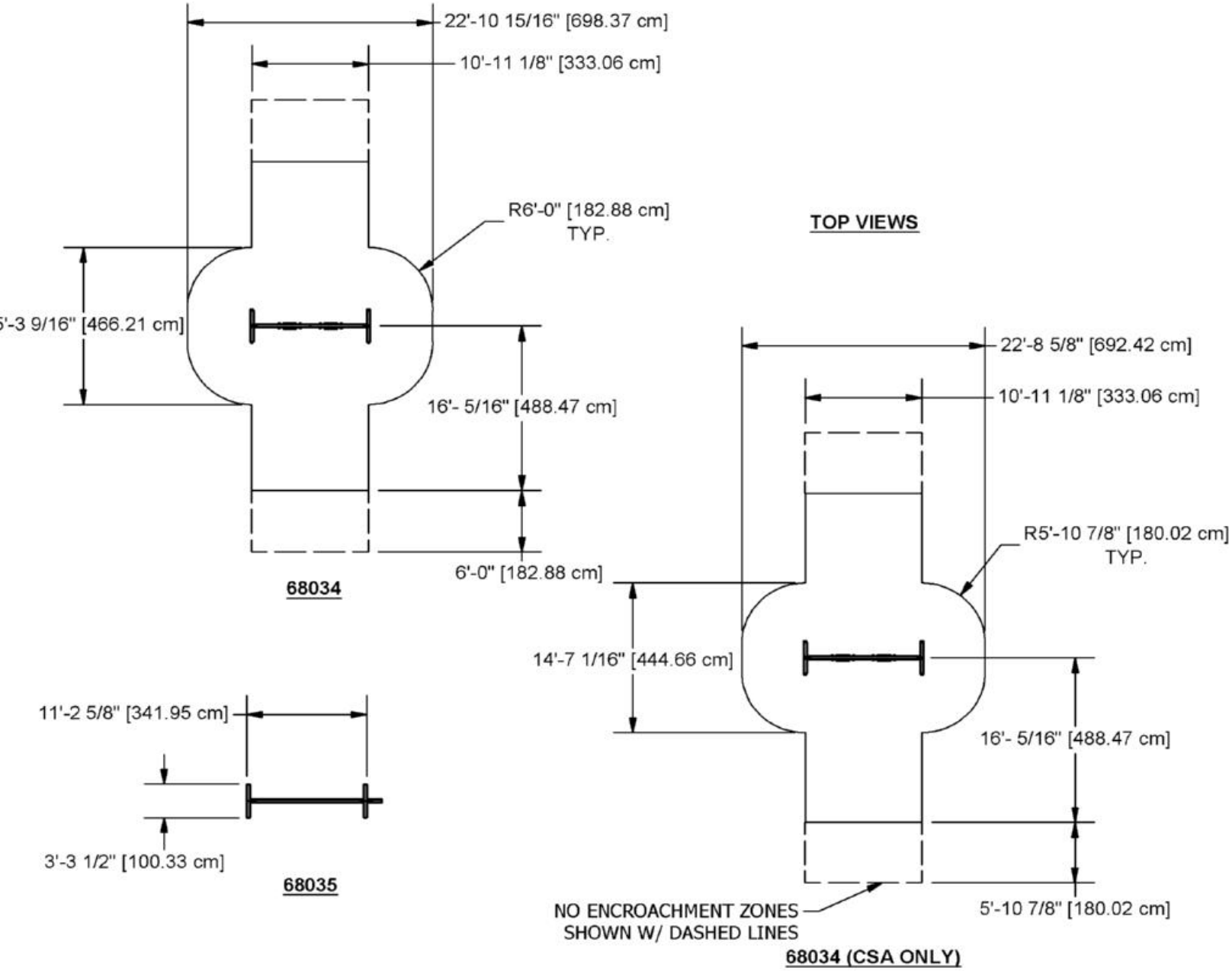


68034 SHOWN (68035 SIMILAR)
WITH OPTIONAL STANDARD
SEAT PACKAGES (NOT INCLUDED)

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
CANADIAN	STRAP - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A

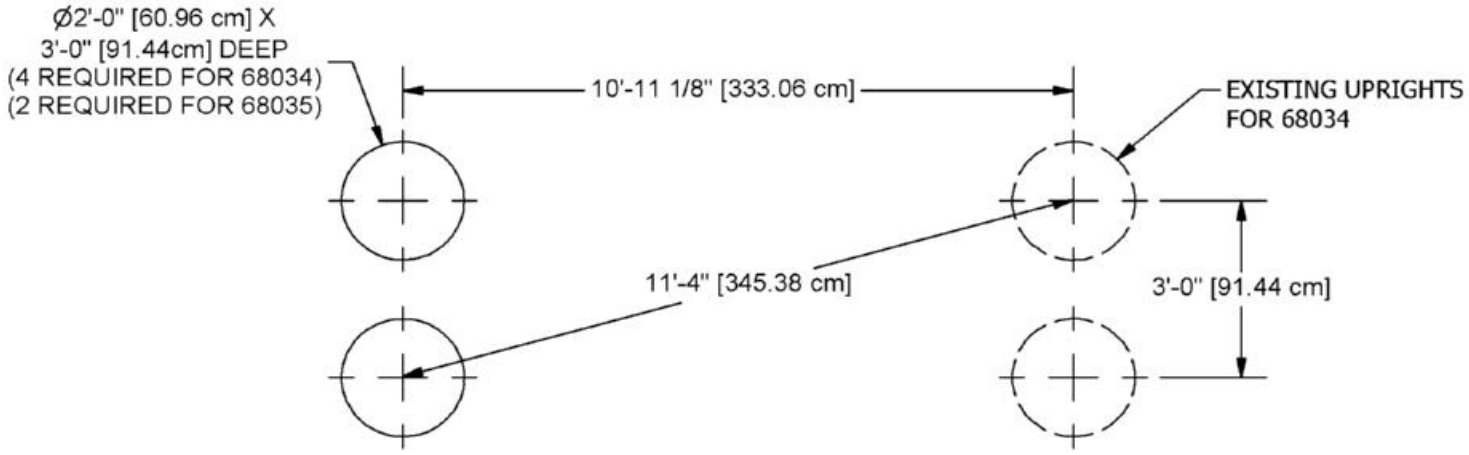
MEASURED WHEN OCCUPIED BY MAXIMUM USERS

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



NOTE:
1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA ***NO ENCROACHMENT*** ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND ***NO ENCROACHMENT*** ZONE DIMENSIONS BY 10'-11 1/8" [3.33M].

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:
.23 CUBIC YARDS
.18 CUBIC METERS
(PER HOLE)

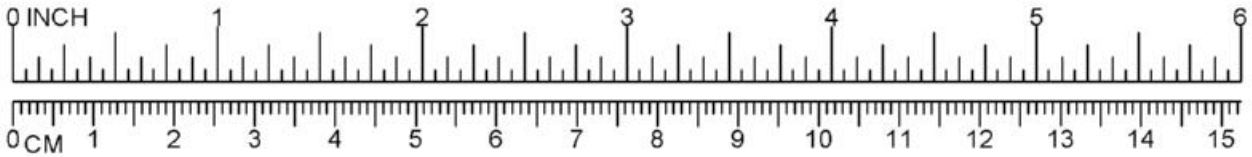
DETAILS -for-
68034 & 68035

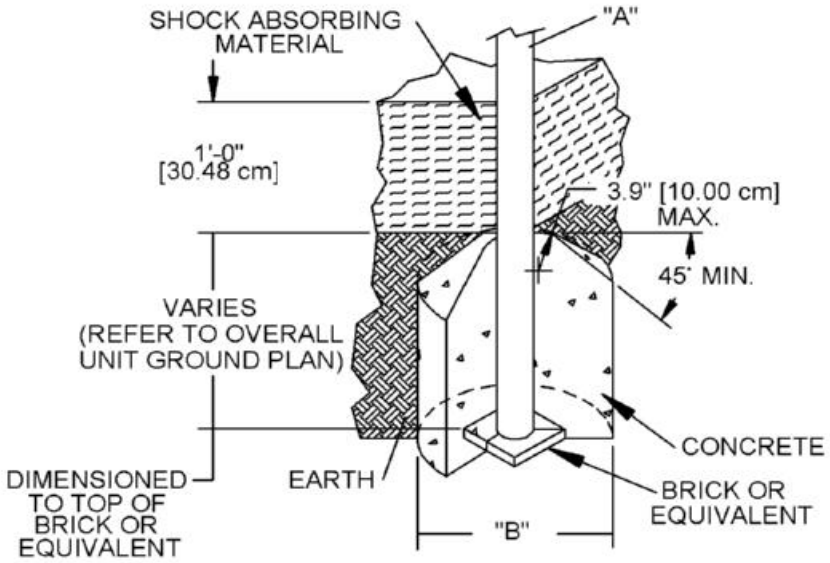
IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



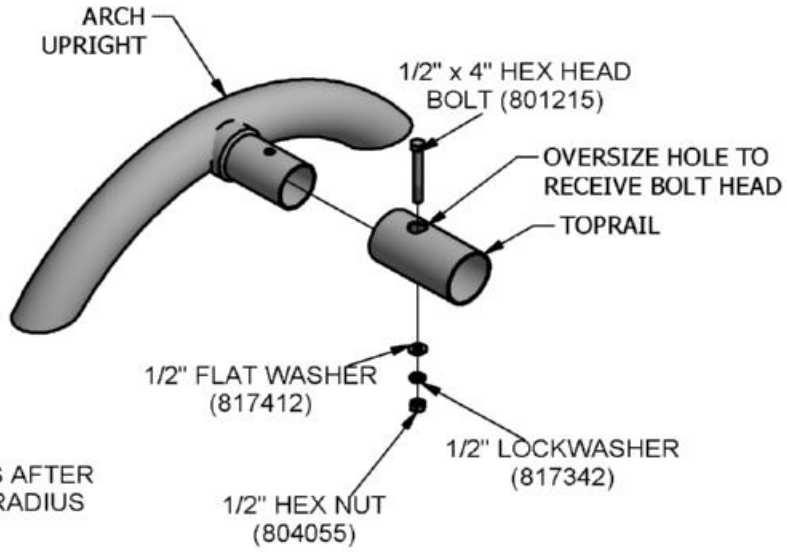


DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
3 1/2" [8.89 cm]	2'-0" [60.96 cm]

NOTES:
-SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
-SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

005

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



NOTE: PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.

020

68043 SYNCHRO SPINNER

Parts List		
DESCRIPTION	QTY	PART NUMBER
545 HUB / SPINDLE ASSY, SYNCHRO	1	EGA201
PLAYPOD W/1.38" HOLE	1	G441
48" FOOTING PIPE	1	G433GS
CENTER POLE	1	G887P
FINIAL 1	2	401585
WOBBLY DISC	2	401586
FINIAL SPACER 1	1	401588
HARDWARE COMPLETE	1	303908
ANCHOR ROD	1	402121
#8 x 3/4" WOOD SCREW	4	815517
1/4 x 2-1/2" SS - SPANNER HEAD SCREW	2	0431
1/4-20 DOWEL NUT	2	1598
3/8" x 3/4" B.H.C.S.	2	811052
3/8 x 1-1/4 SOC FLT HD SS CAP SCREW	5	2442
RED.HD 3/8 x 1-1/2 SOC FLT HD SS CAP SCREW	3	2441
3/8" FLAT WASHER	2	817410
3/8" COUPLER NUT	1	804811
1/2" x 1 1/4" B.H.C.S.	3	811062
1/2" LOCKWASHER	3	817342

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

MECHANISM PARTS (545 Hub/Spindle Ass'y):

SPINDLE: 2.75" Round Bar 1018 ASTM-A108

IDER RING: Shall be precision cut from a single sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60lbs/ft^3 and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

GREASE SEAL: Shall be fabricated from quality trailer products or equivalent.

INNER BEARING ASS'Y: Shall be fabricated precision machined hardened steel bearinga and raceways, encapsulated in long-lasting, highly temperature-stable and water-resistant grease.

SYNCHRO HUB w/TAPPED HOLE: Shall be clast aluminum 356, hardened to T6.

OUTTER BEARING ASS'Y: Shall be fabricated precision machined hardened steel bearinga and raceways, encapsulated in long-lasting, highly temperature-stable and water-resistant grease.

68043 SYNCHRO SPINNER

SPECIFICATIONS CONT'D:

GREASE CAP: Shall be fabricated from quality trailer products or equivalent.

BUSHING: 1.125" O.D. 18GA. Cold Rolled Steel, ASTMA366

PLAYPOD: Shall be fabricated from linear low-denisty polyethylene (LLDPE) with UV-stabilized colorant and an anti-static compound additive. The tensile strength of this material is 2500 PSI, as defined in ASTM D638. The typical wall thickness will be .250" (1/4"). ASTM D-1248, type2, class A and Federal specification LP-390c, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

FOOTING PIPE: Shall be constructed from 2 1/2" schedule 40 steel pipe (2.875" O.D. x 0.203" wall thickness).

CENTER POLE: Shall be an all welded construction consisting of 1/2" thick steel plate, ASTM A 36 or Equivalent, 2 1/2" schedule 10 (.120" wall) ERW BLK A120/A53A, 1.375" Steel round bar 1018 ASTM-A108, and 1/2" thick steel bushing ASTM A36 or Equivalent. Assembly shall have a black powder coat finsih.

FINIAL 1 & WOBBLY DISC: Shall be precision cut from a single sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60lbs/ft^3 and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

FINIAL SPACER: Shall be precision cut from a single sheet of .500" thick UV-stabilized extruded high-density polyethylene with colors molded in. All edges shall have radiuses and all corners rounded for safe play.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter an shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating, The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical Characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating.

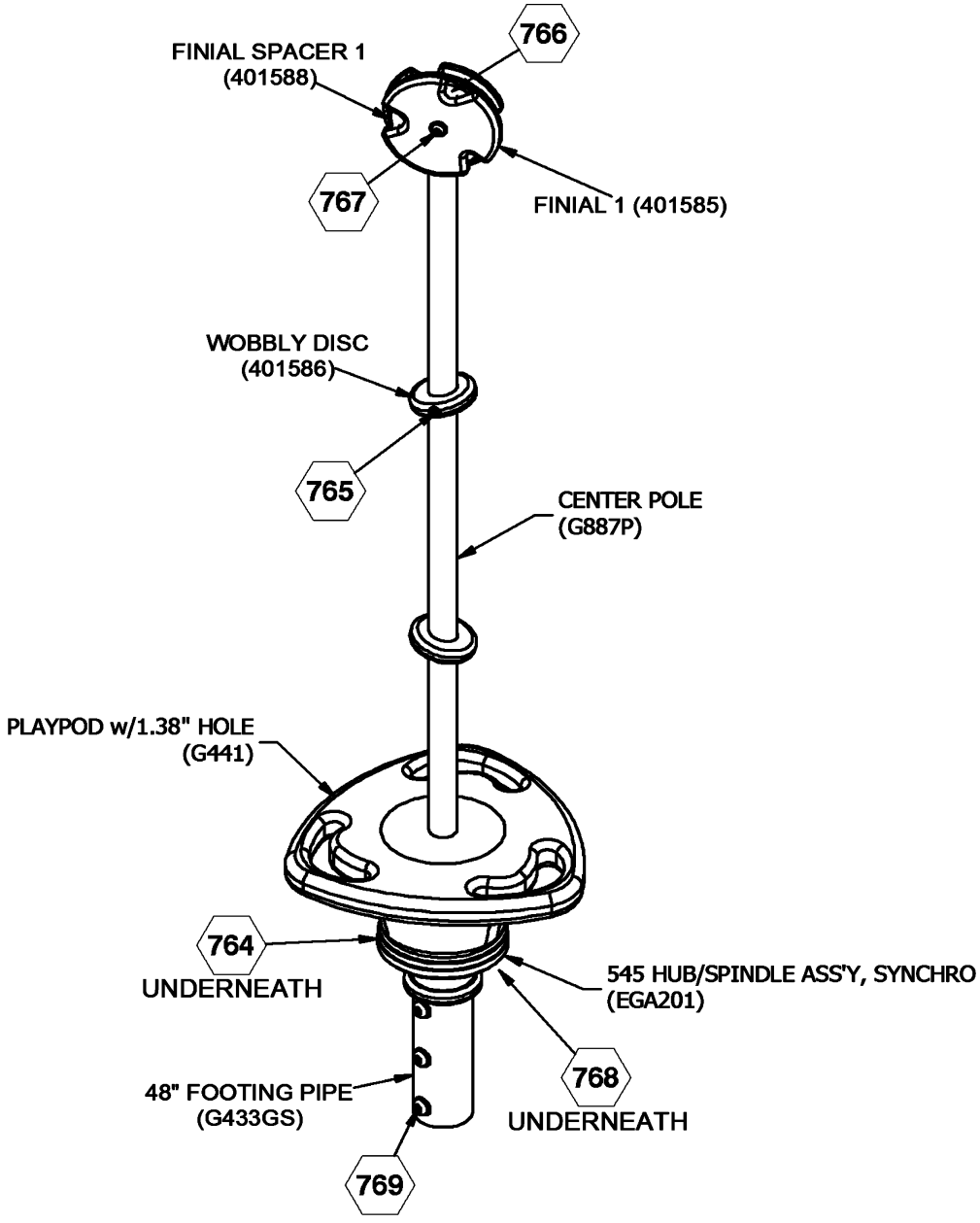
INSTALLATION INSTRUCTIONS:

1. Dig footing holes as shown in Elevation and Plan Views.
2. Attach Playpod to Center Pole using 3/8" x 1 1/2" Cap Screws. See Detail 764.
3. Attach Wobbly Discs to Center Pole using 1/4" x 2 1/2" Spanner Head Screw and 1/4"-20 Dowel Nut. See Detail 765.
4. Attach Finial to Finial Spacer using #8 x 3/4" Wood Screws. See Detail 766.
5. Attach Assembled Finial and other Finial to Center Pole using 3/8" x 3/4" B.H.C.S., 3/8" Flat Washer, and 3/8" Coupler Nut. See Detail 767.
6. Attach 545 Hub/Spindle Ass'y, Synchro to Center Pole using 3/8" x 1 1/4" Cap Screw. See Detail 768.
7. Insert Anchor Rod into Footing Pipe. Place footing Pipe into footing hole. Confirm that the Footing Pipe is plumb before filling hole with concrete. Allow Concrete to cure at least 48 hours before use. Temporary bracing may be required until concrete cures. See Detail 138.
8. Attach Synchro Spinner Ass'y to Footing Pipe using 1/2" x 1" B.H.C.S. and 1/2" Lockwasher. See Detail 769.
9. Attach Warning Label and Age Appropriate Label on the outside of Footing Pipe as high as possible.
   Note: Areas must be clean and dry before attaching Labels.

68043 SYNCHRO SPINNER

MAINTENANCE PROCEDURE:

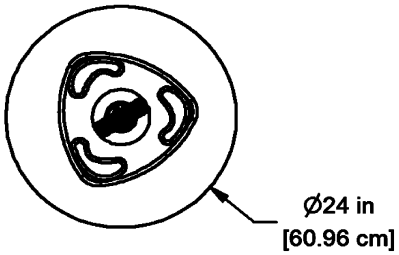
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



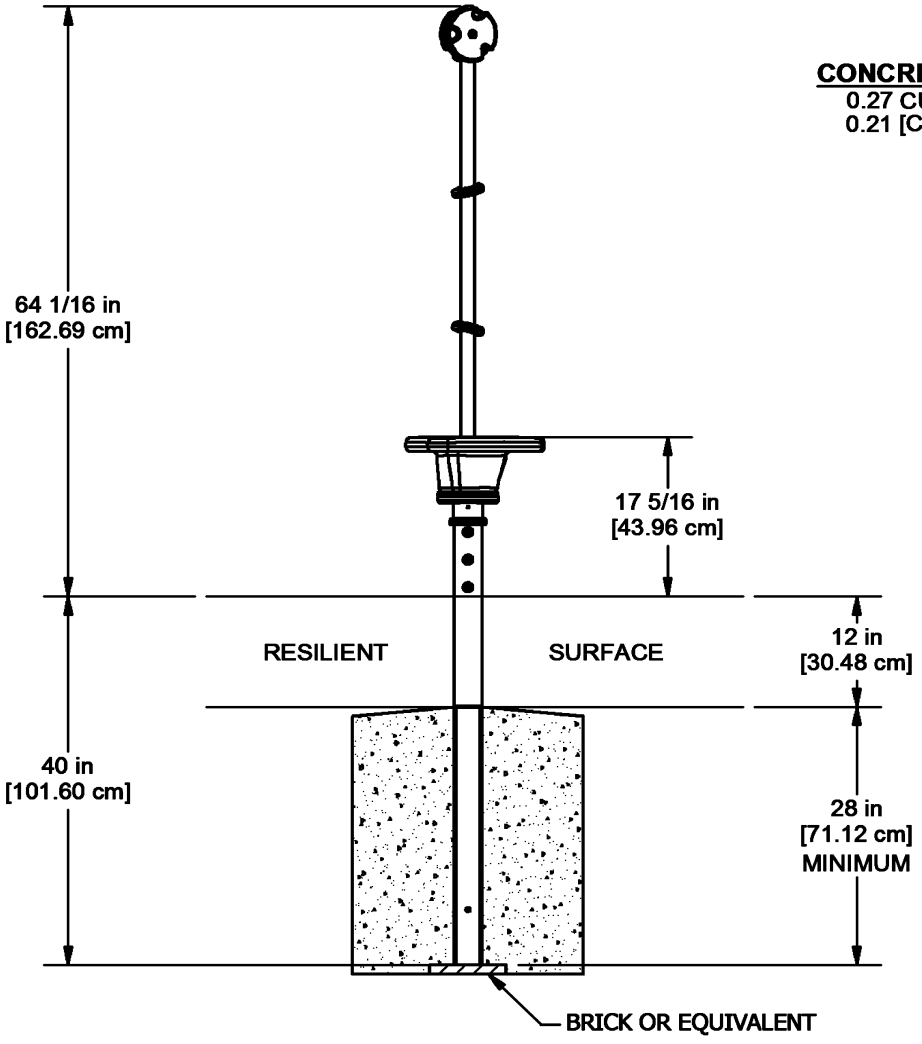
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

68043 SYNCHRO SPINNER



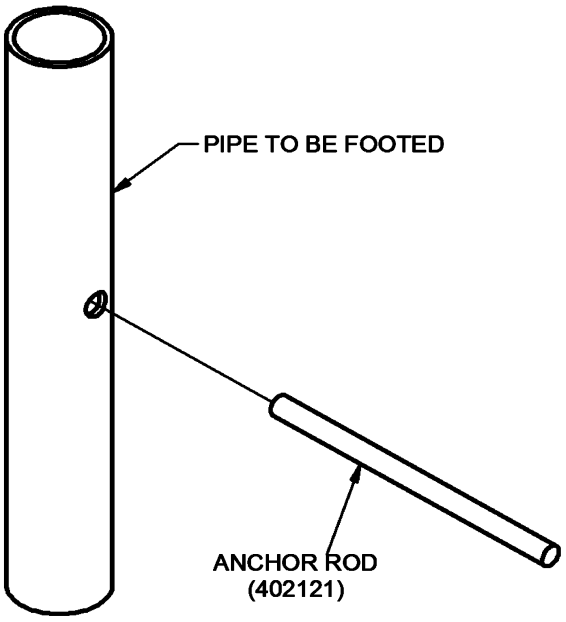
PLAN VIEW



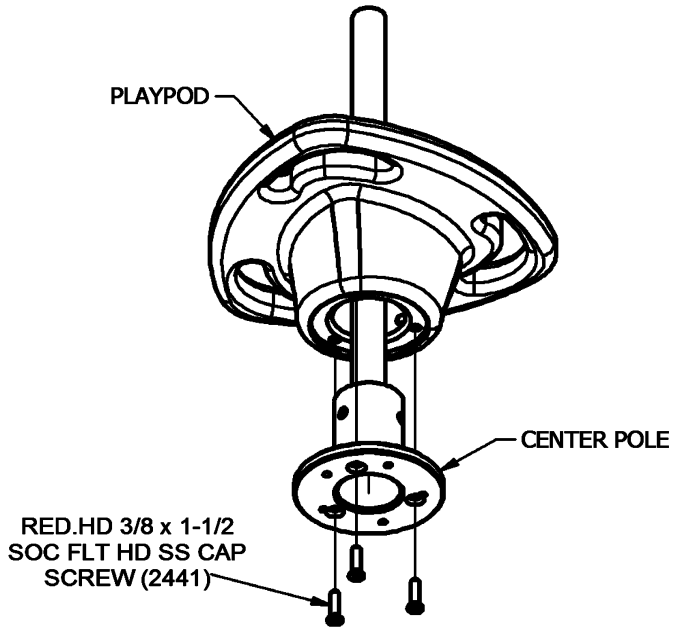
CONCRETE REQUIRED
0.27 CUBIC YARDS
0.21 [CUBIC METERS]

ELEVATION VIEW

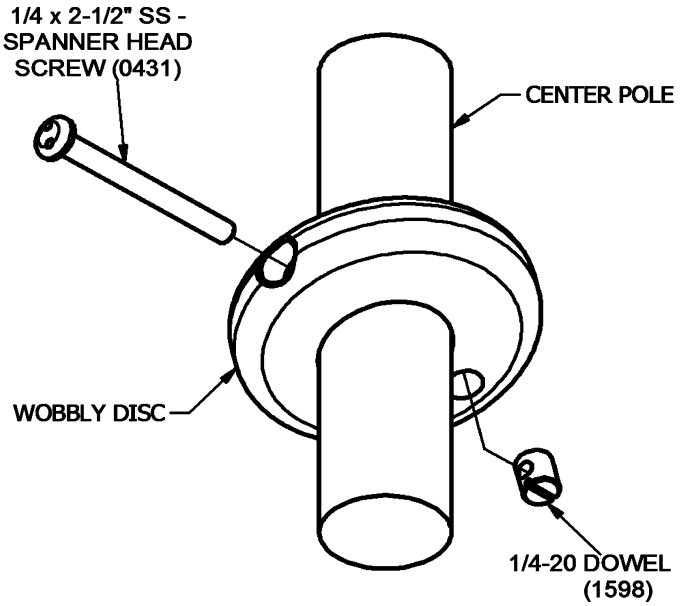
68043 SYNCHRO SPINNER



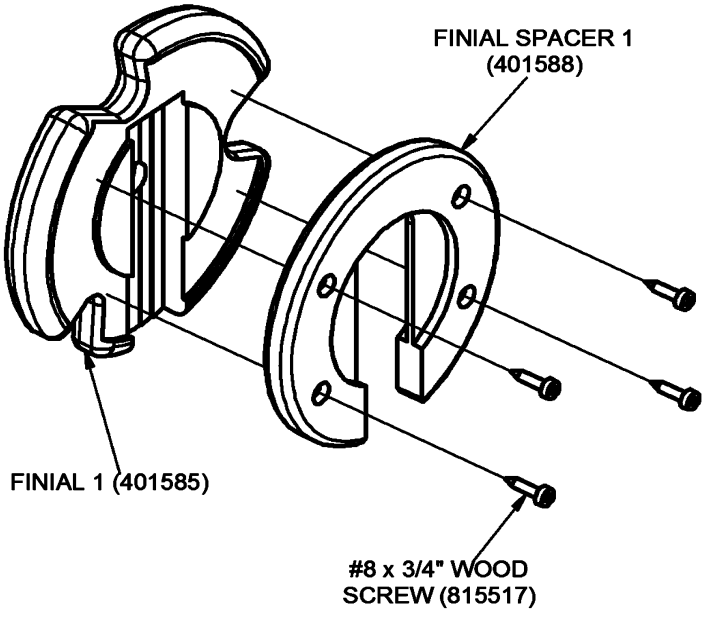
138



764

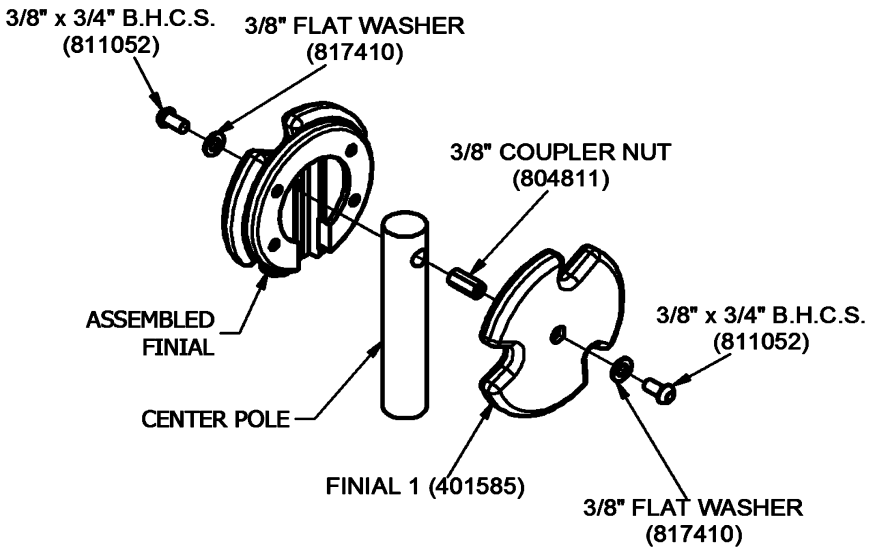


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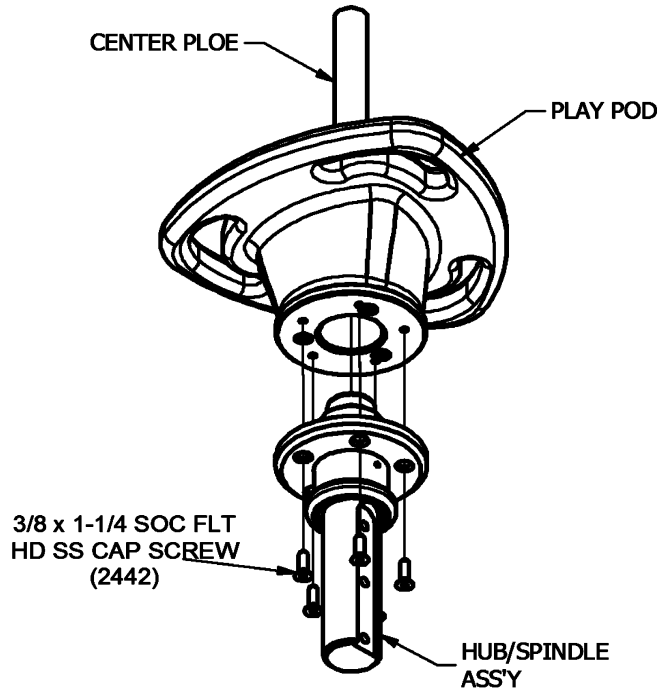


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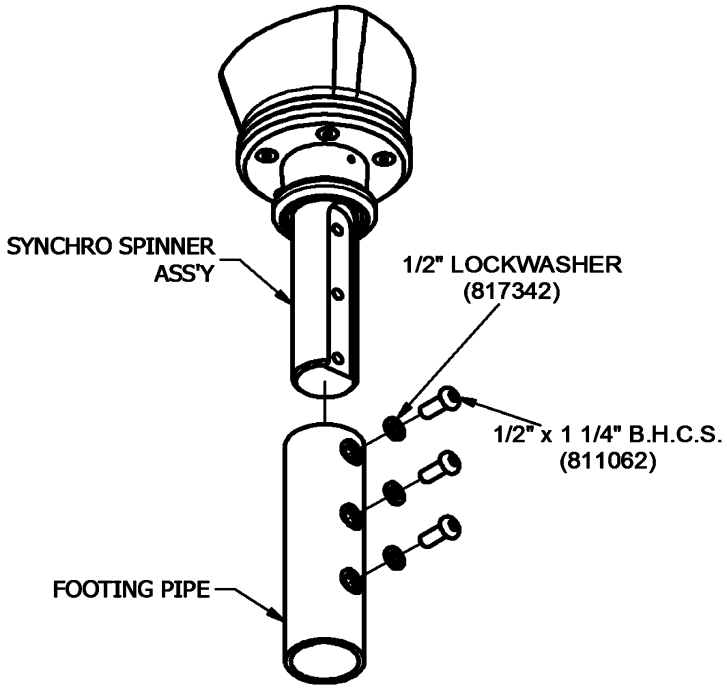
68043 SYNCHRO SPINNER



767



768



769

68115 ACTIVITY METER

Parts List		
DESCRIPTION	QTY	PART NUMBER
FREESTANDING METER PANEL	1	313741
SUPPORT PIPE	1	313832
HARDWARE COMPLETE	1	313833
3/8" x 3" P.B.H.C.S. w/PATCH	1	812059*
3/8" FLAT WASHER (1 1/4" O.D.)	1	817424*
3/8" BARREL NUT	1	804804*
1/2" FLAT WASHER (1 3/8" O.D.)	1	817425*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Freestanding Meter Panel:
Shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Denisty (ASTM D-155); Brittleness Temperature (ASTM D-745; Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The frame shall be reinforced with all welded construction fabricated from 1.688" O.D. x .083" (14 gauge) wall galvanized steel tubing, 2.375" x .095" (13 gauge) wall galvanized steel tubing, and 1/4" stainless steel plate.

Support Pipe:
Shall be fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing. The Support Pipe shall be coated with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing hole according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

68115 ACTIVITY METER

2. Attach Support Pipe to Freestanding Meter Panel using 3/8" x 3" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), 1/2" Flat Washer (1 3/8" O.D.), and 3/8" Barrel Nut. See Detail 839.

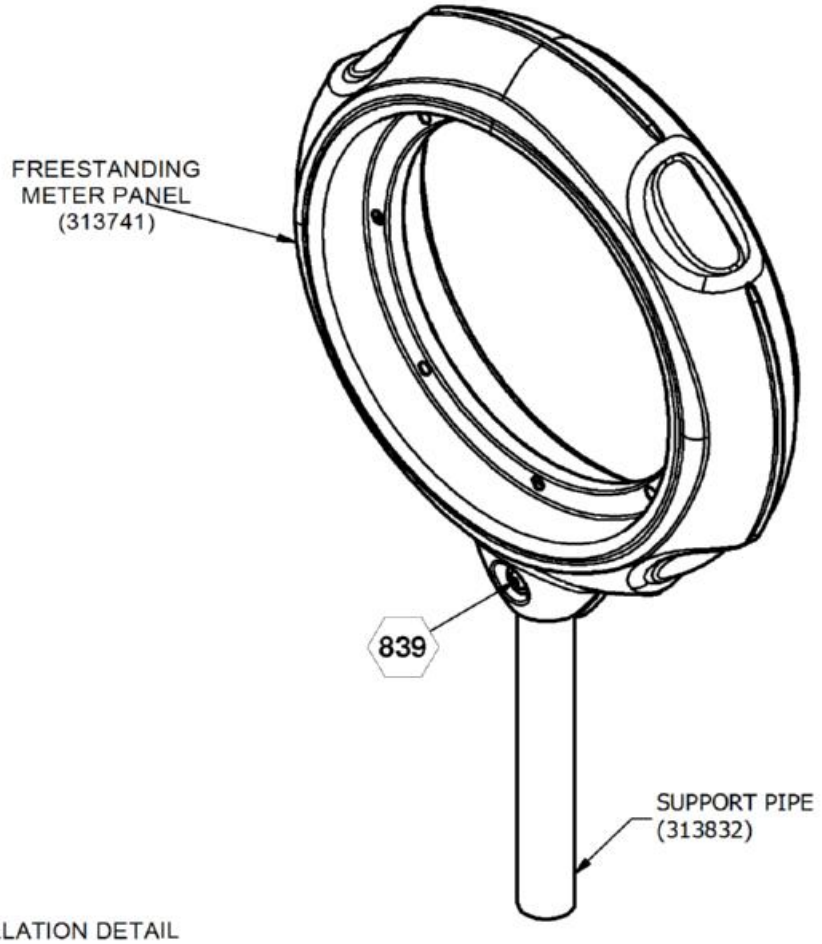
3. Plumb and level the entire assembly and tighten all fasteners.

4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

5. When the structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

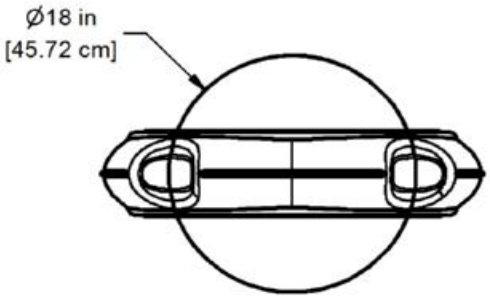
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



⬡ = INSTALLATION DETAIL

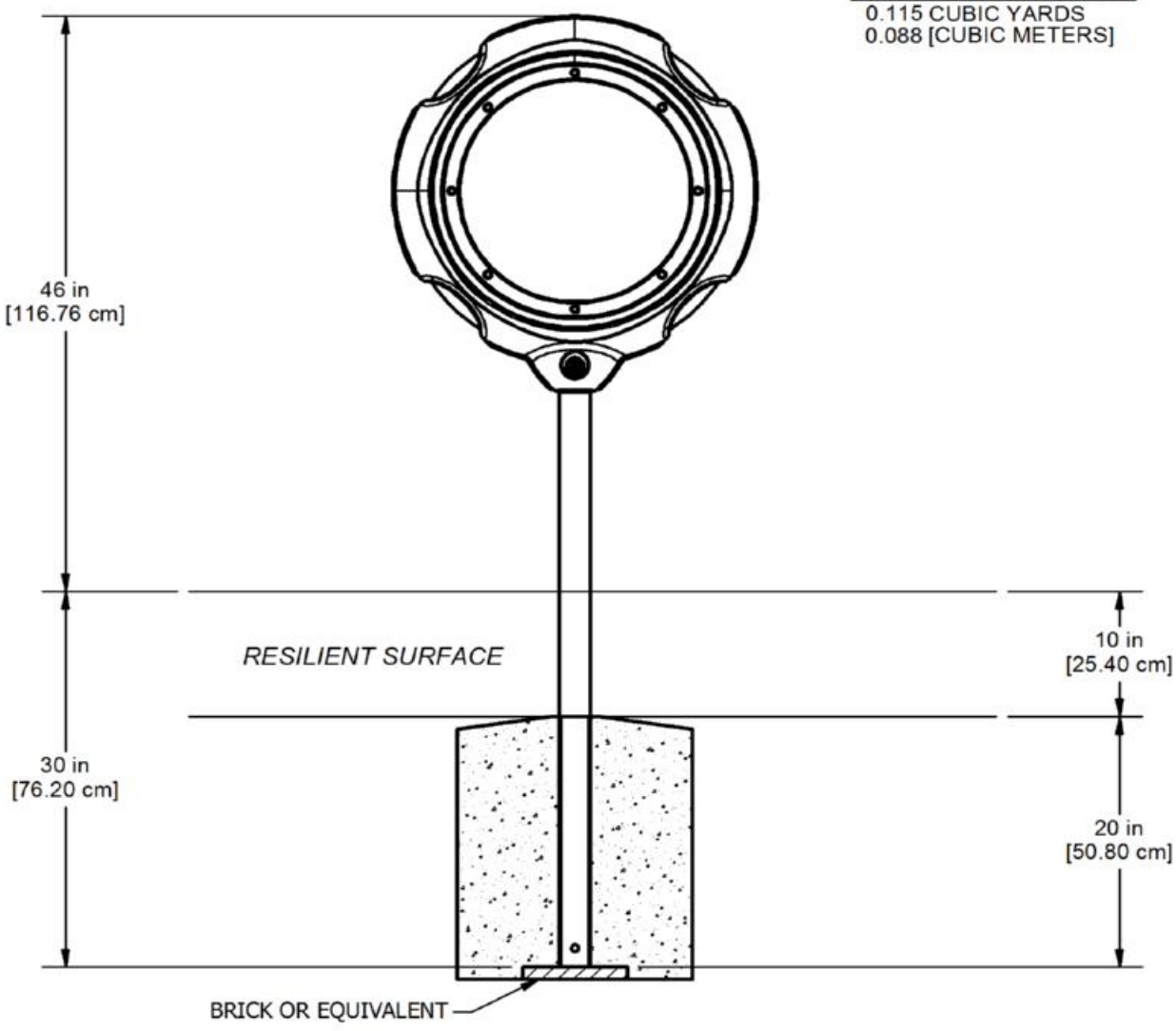
FINISHED ASSEMBLY

68115 ACTIVITY METER



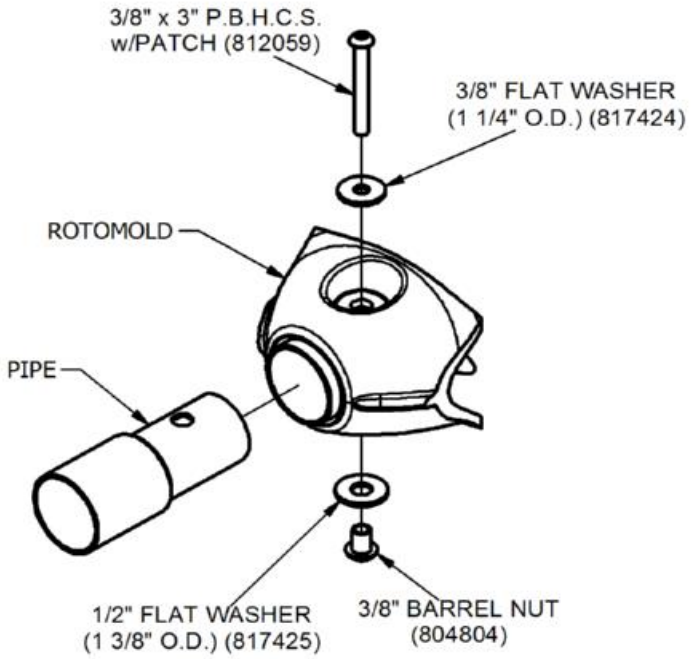
PLAN VIEW

CONCRETE REQUIRED
0.115 CUBIC YARDS
0.088 [CUBIC METERS]



ELEVATION VIEW

68115 ACTIVITY METER



839

ParkPlay Harmony

68127 ALLEGRO (SET OF 7)

Parts List		
DESCRIPTION	QTY	PART NUMBER
ALLEGRO (SET OF 7) PACKAGE	1	314080

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Allegro (Set of 7) Package:
Each is made with heavy duty, anodized aluminum. Each instrument is supplied with four durable mallets with coated steel cables.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in winter and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Pound 36" long Steel Rebar (not provided) into the center of each hole. Rebar needs to be 18" into the soil within the Ø10" hole. This process helps with keeping the Chimes vertical while the concrete cures.

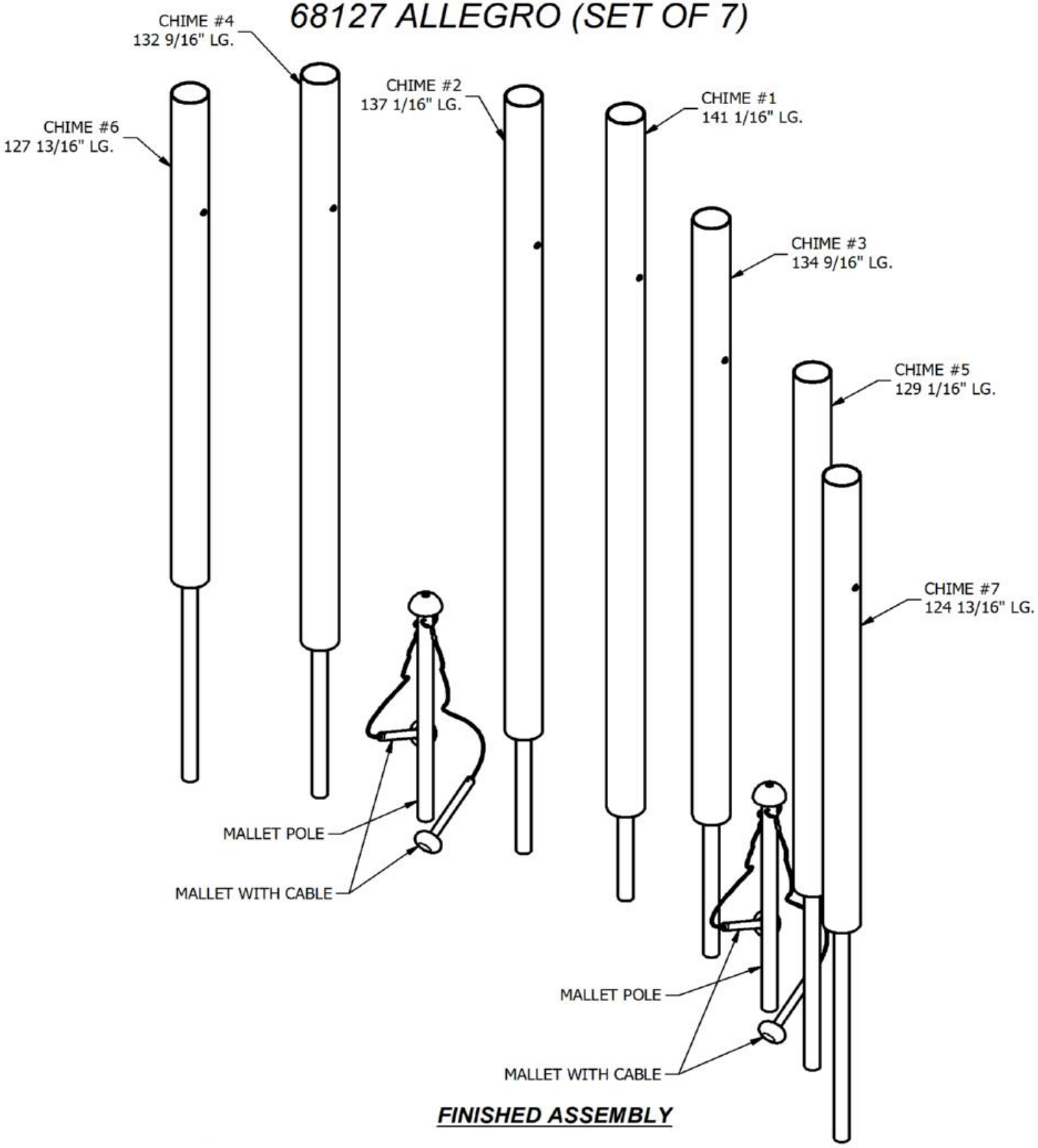
3. Place each Chime into their holes over the Rebar, then pour concrete around the in ground poles. Check that all Chimes are level. Leave concrete to set according to the concrete manufacturer's guidelines. If necessary, brace the Chimes to hold them rigid during the curing process. ***IMPORTANT:*** Chimes must be as vertical as possible for best sound.

NOTE: Shock absorbing properties of surfacing materials vary. If you determine that less than 10" of surfacing is required, make up the difference in elevation with earth, before applying surfacing.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68127 ALLEGRO (SET OF 7)

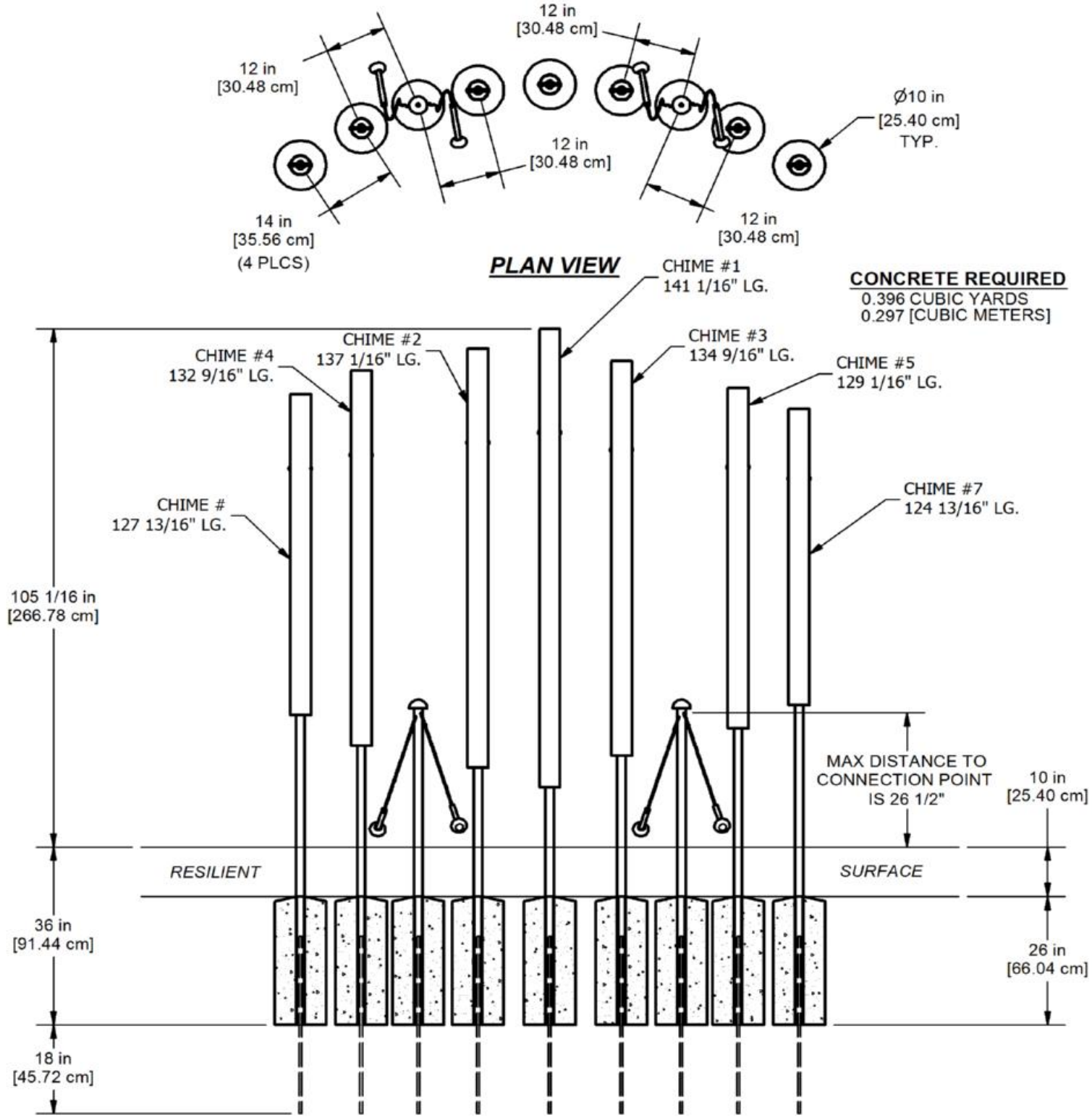


FINISHED ASSEMBLY

ParkPlay

Harmony

68127 ALLEGRO (SET OF 7)



Issued/Revised: 5/8/2017

ELEVATION VIEW

68140 CONGA (SET OF 3)

Parts List		
DESCRIPTION	QTY	PART NUMBER
CONGA TRIPLE FRONT HDPE PANEL	1	314066
CONGA TRIPLE BACK HDPE PANEL	1	314067
CONGA TRIPLE UPRIGHT SUPPORT	1	314065
CONGA TRIPLE RING ASSEMBLY	1	314062
SPACER WITH INSERTS	9	314057
DRUMS PKG. (SET OF THREE)	1	314097
HARDWARE COMPLETE	1	314070
3/8" x 3/4" P.B.H.C.S. w/PATCH	36	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	18	812053
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	18	812057
3/8" x 3 1/4" P.B.H.C.S. w/PATCH	4	812060
3/8" HEX NUT	18	804053
3/8" LOCKWASHER	22	817334
3/8" PLASTIC SPACER	36	817613
3/8" FLAT WASHER	72	817410
3/8" BARREL NUT	40	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Conga Triple Front HDPE Panel and Conga Triple Back HDPE Panel:
Shall be 3/4" thick high-desnity polyethylene.

Conga Drum 6, Conga Drum 8, and Conga Drum 10:
Shall be constructed of 6" plastic pipe, 8", and 10" plastic pipe, and molded plastic lid.

Conga Triple Ring Assembly:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel. The Conga Triple Ring Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Conga Triple Upright Support:
Shall be an all welded construction fabricated from 3 1/2" galvanized pipe and 1/4" thick laser cut steel The Conga Triple Upright Support shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Spacer with Inserts:
Shall be fabricated from 1.315" galvanized pipe and 1.120" threaded insert. The Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

68140 CONGA (SET OF 3)

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coated plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Conga Triple Back HDPE Panel to Conga Triple Upright Support using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 862. **NOTE:** *Rotate panel so that the reference arrow is face up in the top right corner.*

3. Attach Spacer with Inserts to Conga Triple Upright Support using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 870. **NOTE:** *Do not tighten connection until entire assembly is complete. Rotate Spacers so that the holes are orientated toward the center hole for the drum.*

4. Attach Conga Triple Ring Assembly to Conga Triple Upright Support using 3/8" x 3 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 868.

5. Attach Conga Triple Front HDPE Panel to Conga Triple Ring Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 862. **NOTE:** *Rotate panel so that the reference arrow is face up in the top left corner.*

6. Attach Conga Triple Ring Assembly and Conga Triple Front HDPE Panel to Spacer with Inserts using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 871.

7. Insert Conga Drum 6, Conga Drum 8, and Conga Drum 10 (Included in Drum Pkg.) into appropriate hole for each drum. Place the open end toward ground and allow the top to rest on the Conga Drum Support Assembly. Align each Spacer with Inserts so that the holes face each drum and field drill 3/8" hole thru each drum. Attach Conga Drums to Spacers with Inserts using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Plastic Spacer, 3/8" Lock Washer, and 3/8" Hex Nut. See Detail 863.

8. Plumb and level the entire assembly and tighten all fasteners

9. Attach bottom cover for Conga Drum 6, Conga Drum 8, and Conga Drum 10 using supplied adhesive. See Detail 869.

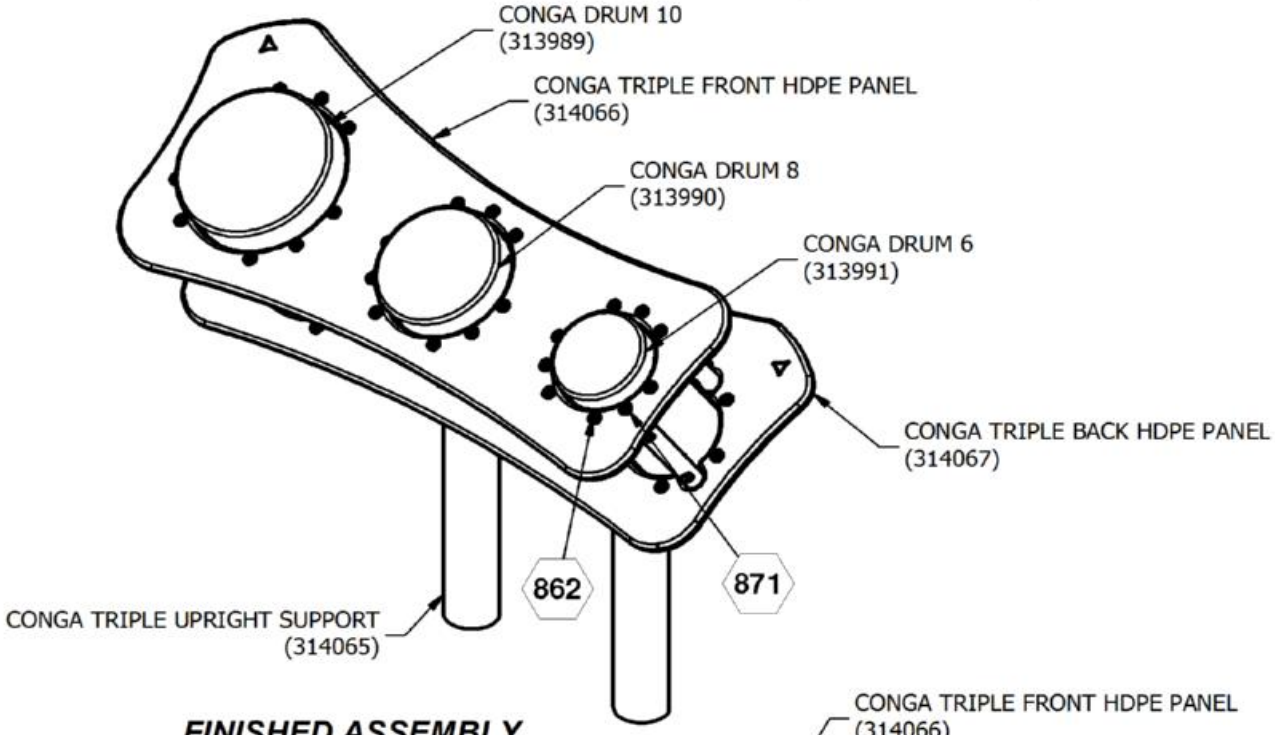
10. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

11. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines

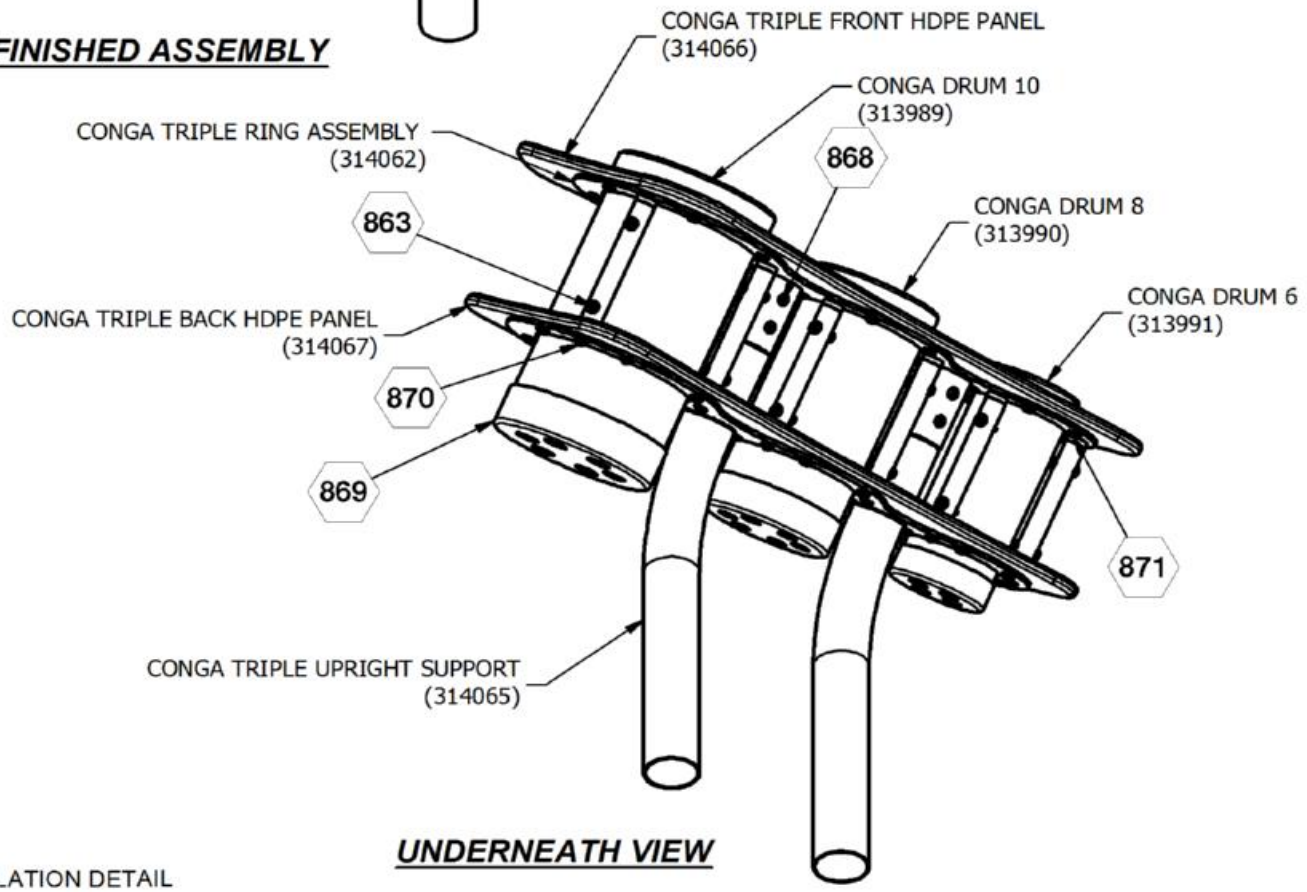
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68140 CONGA (SET OF 3)



FINISHED ASSEMBLY

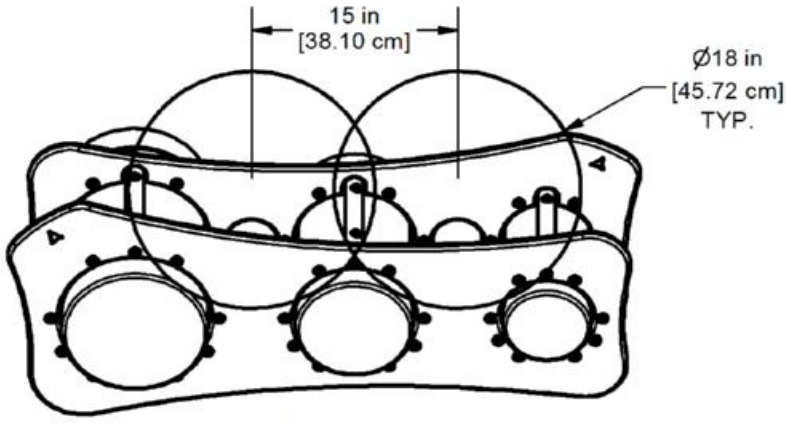


UNDERNEATH VIEW

⬡ = INSTALLATION DETAIL

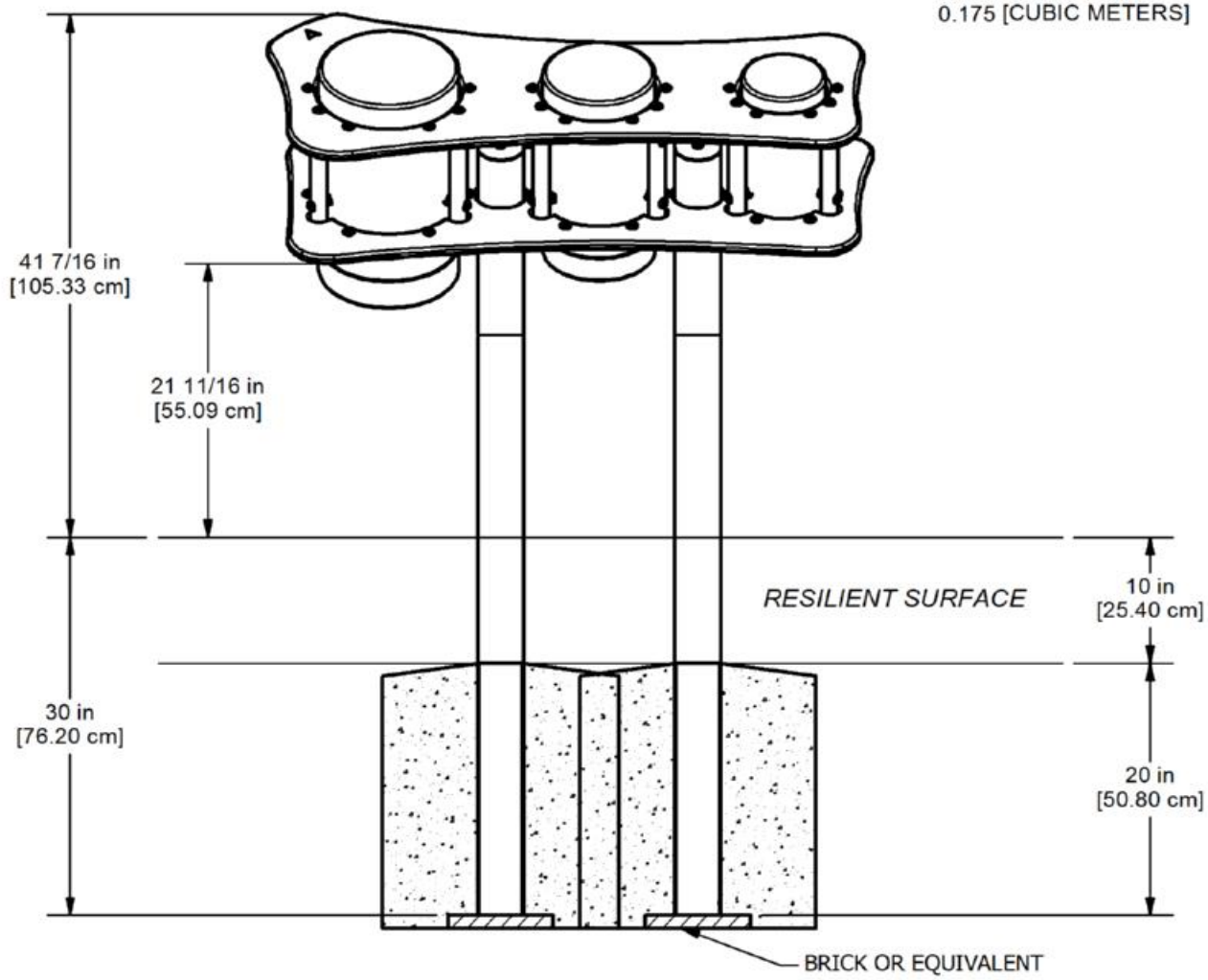
Issued/Revised: 11/3/2016

68140 CONGA (SET OF 3)



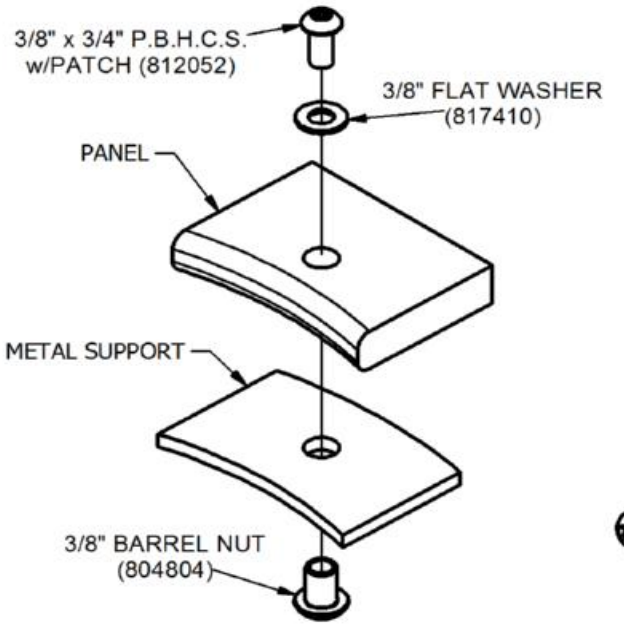
PLAN VIEW

CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

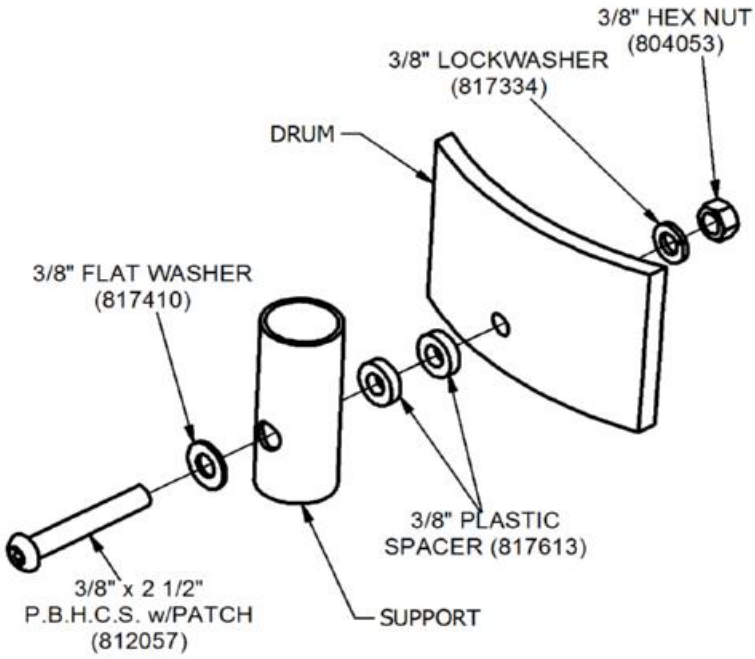


ELEVATION VIEW

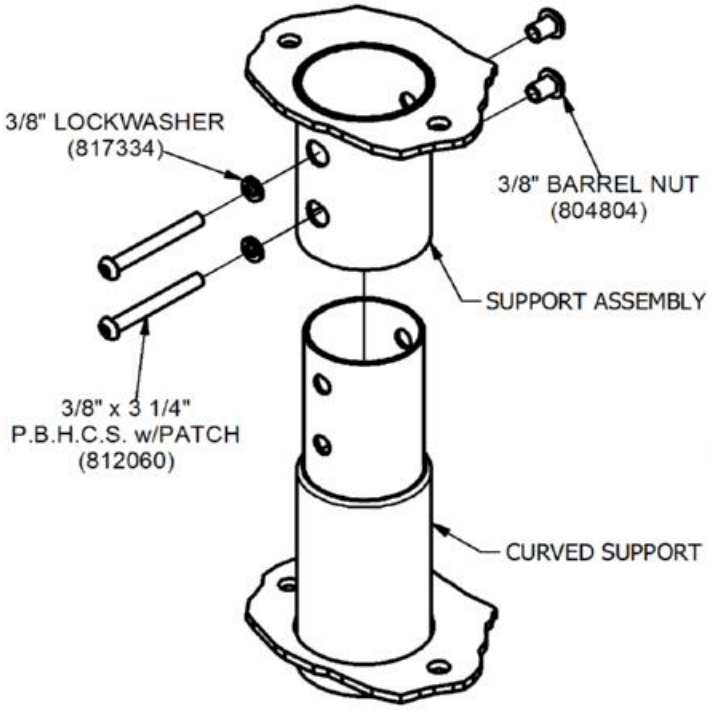
68140 CONGA (SET OF 3)



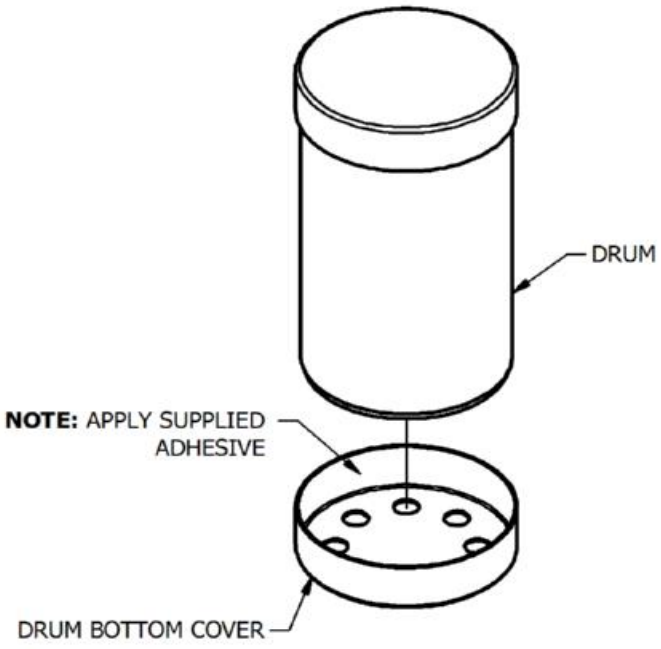
862



863

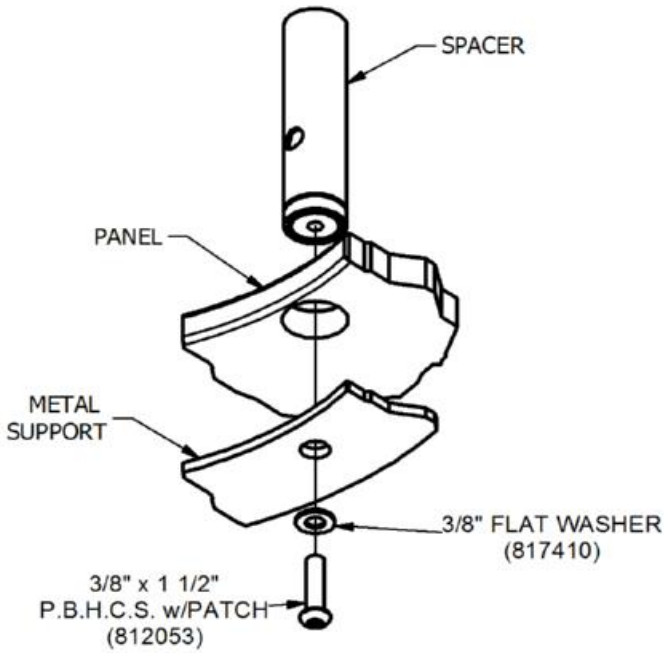


868

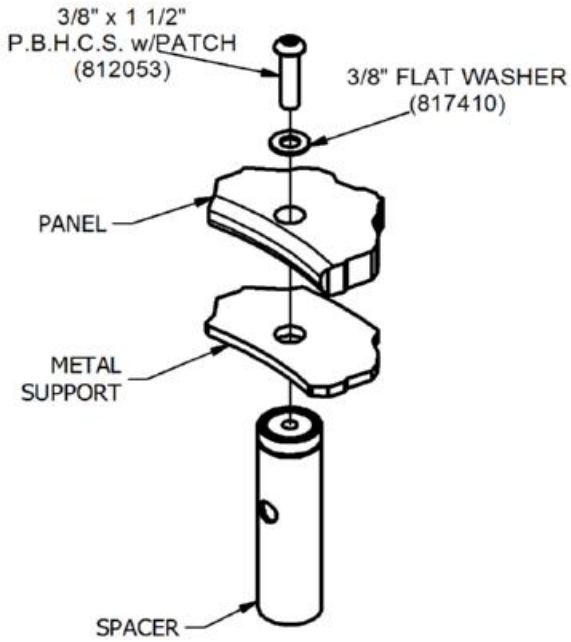


869

68140 CONGA (SET OF 3)



870



871

SuperMax Play Systems

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck

Parts List				
DESCRIPTION	71000	71001	71002	PART NUMBER
DECK ADAPTER	4	3	3	309921
SQUARE DECK PLATFORM	1	0	0	309922
TRIANGLE DECK PLATFORM	0	1	0	309928
ISOSCELES TRIANGLE DECK PLATFORM	0	0	1	309932
HARDWARE COMPLETE	1	0	0	309927
HARDWARE COMPLETE	0	1	1	309931
1/4" x 3/4" SET SCREW	8	6	6	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	2	812052
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	3	3	812051
3/8" LOCK WASHER	6	5	5	817334
3/8" FLAT WASHER (1 1/4" O.D.)	6	5	5	817424
3/8" T-NUT	2	2	2	804556

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Uprights in dug holes at appropriate height per Upright installation instructions. Get the height required for the deck from the Plan View Diagram. Use a felt-tip marker to mark the top of the Ring Clamp on all uprights.

2. Loosely attach all Ring Clamps to the uprights. Refer to the seperate Ring Clamp Installation sheet.

3. Attach Deck Adapters to the Ring Clamps using 1/4" x 3/4" set screw. Do not overly tighten set screws. Attach decks to the Deck Adapter using 3/8" x 1 1/4" P.B.H.C.S., 3/8" Flat Washer, and 3/8" Lock Washer as shown in Detail 447. Plumb and level uprights and brace in position.

4. Using a level, and holding one Ring Clamp as a constant, adjust the other clamps so that the deck is completely level. At this point, if you have more decks to attach, lay each succeeding deck on the ground against the previous deck's two posts, and mark the missing footings to be dug. Continue attaching decks in this manner. Tighten set screws after all decks are attached.

5. Attach side-by-side decks to one another using 3/8" x 3/4" P.B.H.C.S., 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut as shown in Detail 061.

6. When all decks are completed and correct, pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow curing at least 48 hours before use.

7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

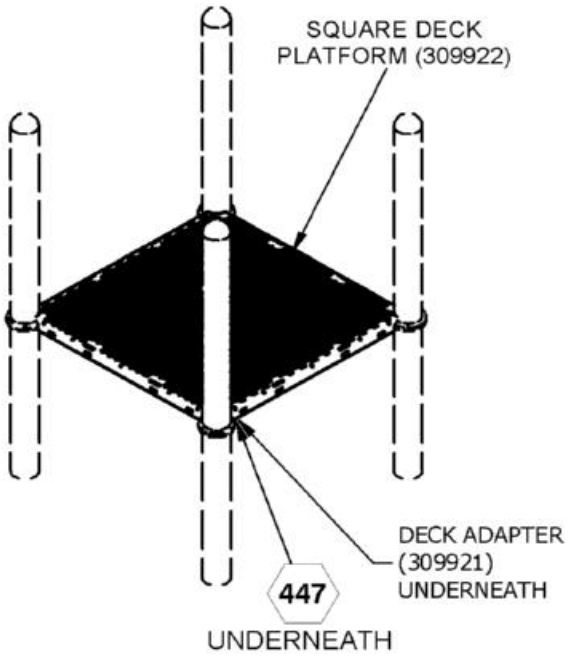
SuperMax Play Systems

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck

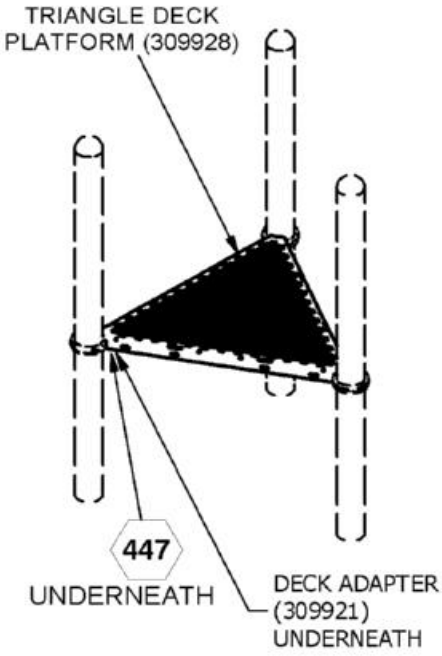
Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

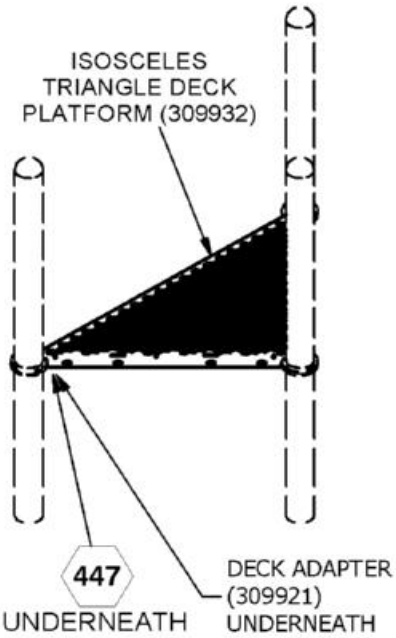
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



SQUARE DECK



TRIANGLE DECK



ISOSCELES TRIANGLE DECK

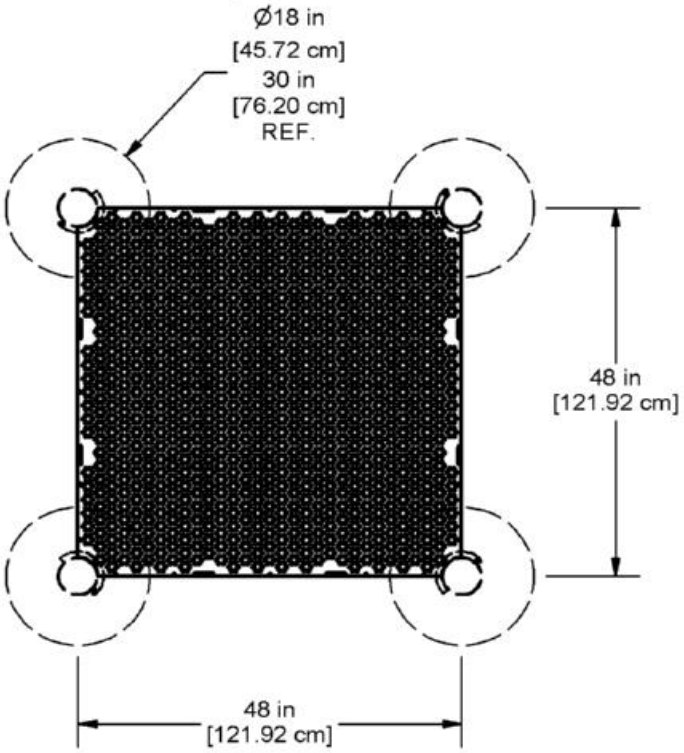
FINISHED ASSEMBLY

= INSTALLATION DETAIL

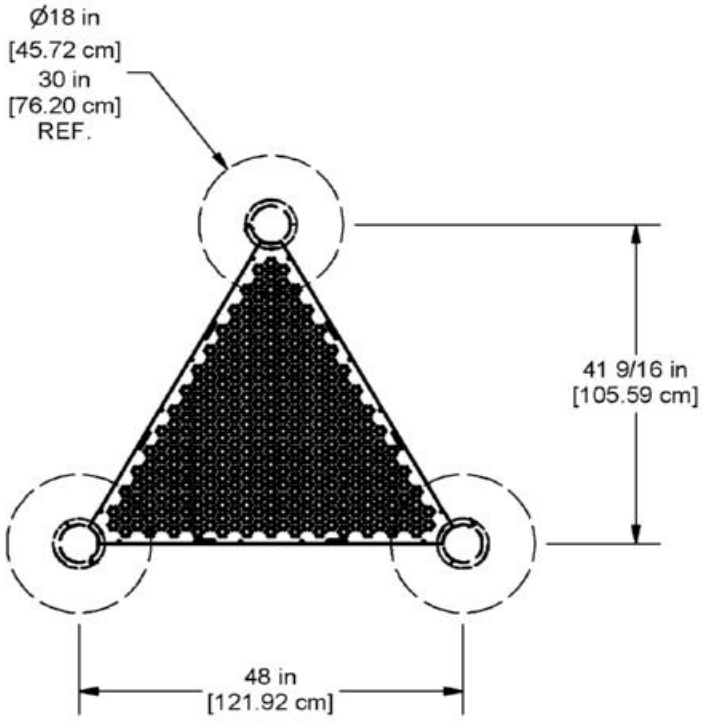
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 7/13/2012

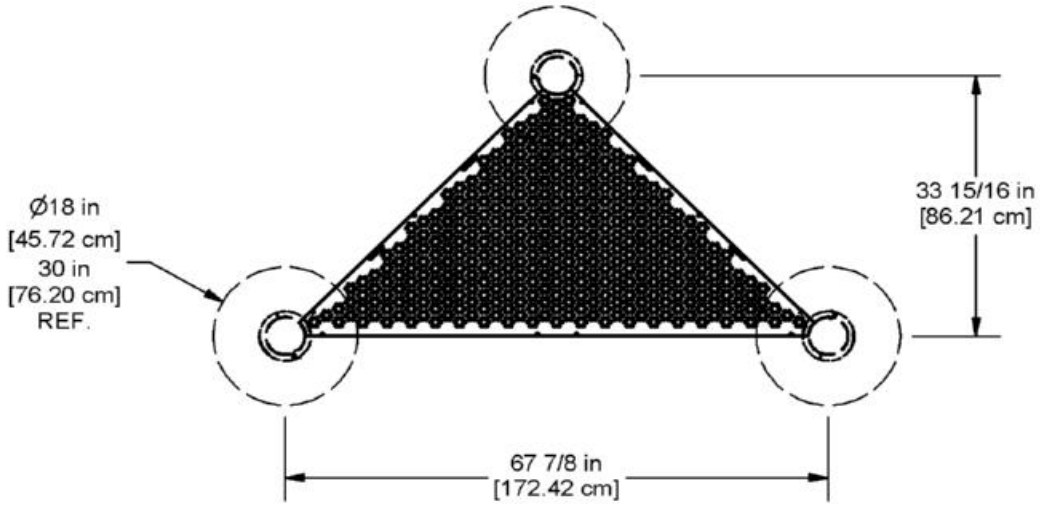
71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck



SQUARE DECK



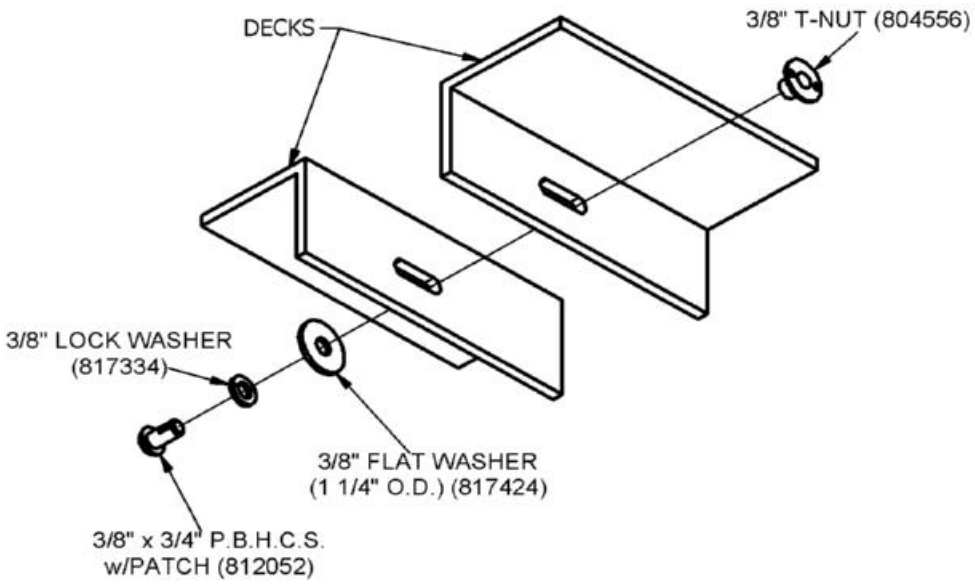
TRIANGLE DECK



ISOSCELES TRIANGLE DECK

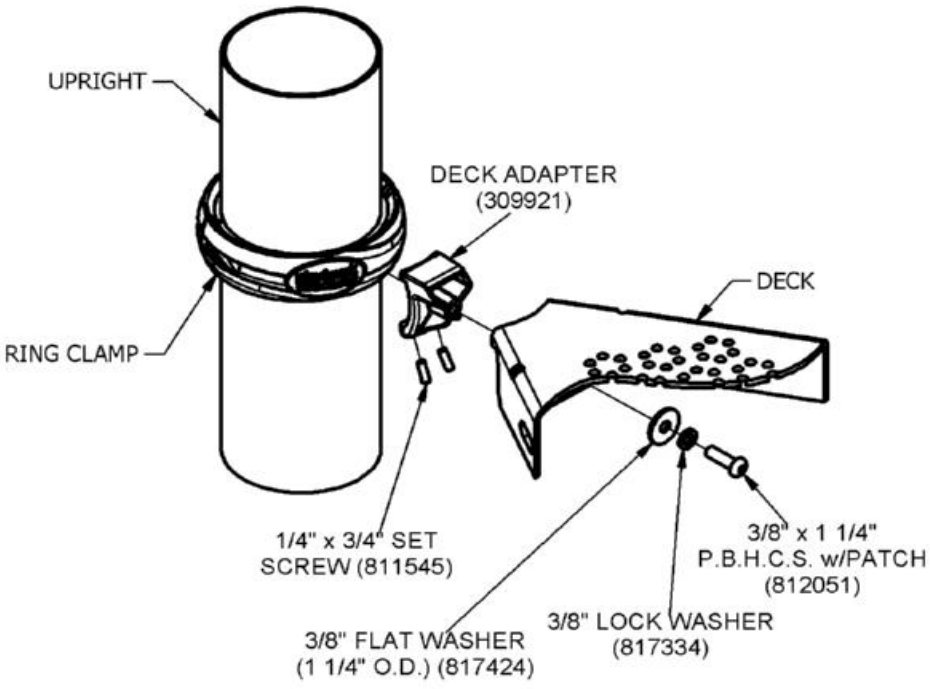
PLAN VIEW

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck



061

NOTE: DECK ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



447

SuperMax Play Systems

71003 Semi-Hex Deck

Parts List		
DESCRIPTION	QTY	PART NUMBER
SEMI-HEX DECK	1	309938
DECK ADAPTER	5	309921
-----HARDWARE COMPLETE-----	1	309942
3/8" FLAT WASHER (1 1/4" O.D.)	9	817424
3/8" LOCKWASHER	9	817334
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	812051
1/4" x 3/4" SET SCREW	10	811545
3/8" T-Nut	4	804556
3/8" x 3/4" P.B.H.C.S. w/Patch	4	812052

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Uprights in dug holes at appropriate height per Upright installation instructions. Get the height required for the deck from the Plan View Diagram. Use a felt-tip marker to mark the top of the Ring Clamp on all uprights.

HINT: If this is the first deck of the structure, locate and concrete one upright only (preferably the most shared post, if this deck is part of a multi deck group), ensuring it is plumb and at the right height. After it has had a chance to set, place one corner of the deck against the post and mark the location of the adjacent post. Concrete the second post. Continue this procedure for all five posts while leaving the deck on the ground. The deck has been used as its own template, and the deck is now easily attached as its uprights are already in place.

2. Loosely attach all Ring Clamps to the uprights. Refer to the seperate Ring Clamp Installation sheet.

3. Attach Deck Adapters to the Ring Clamps using 1/4" x 3/4" set screw. Do not overly tighten set screws. Deck Adapters should still rotate on Ring Clamp. Attach Decks to the Deck Adapter using 3/8" x 1 1/4" P.B.H.C.S., 3/8" flatwasher and 3/8" lockwasher. Plumb and level uprights and brace in position.

4. Using a level, and holding one Ring Clamp as a constant, adjust the other four clamps so that the deck is completely level. At this point, if you have more decks to attach, lay each succeeding deck on the ground against the previous deck's two posts, and mark the missing footings to be dug. Continue attaching decks in this manner. Tighten set screws after all decks are attached.

5. Attach side-by-side decks to one another using 3/8" x 3/4" P.B.H.C.S., 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut as shown in Detail 061.

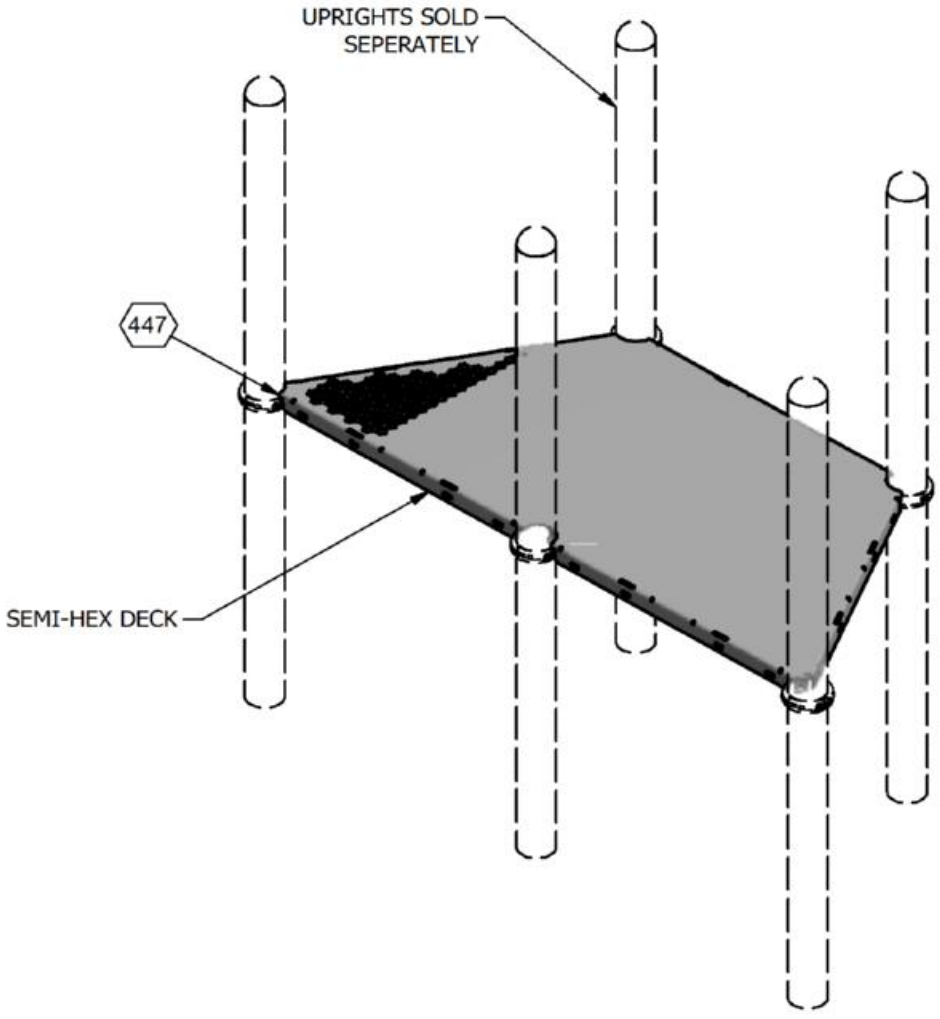
6. When all decks are completed and correct, pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow curing at least 48 hours before use.

When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Deck Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***.

71003 Semi-Hex Deck

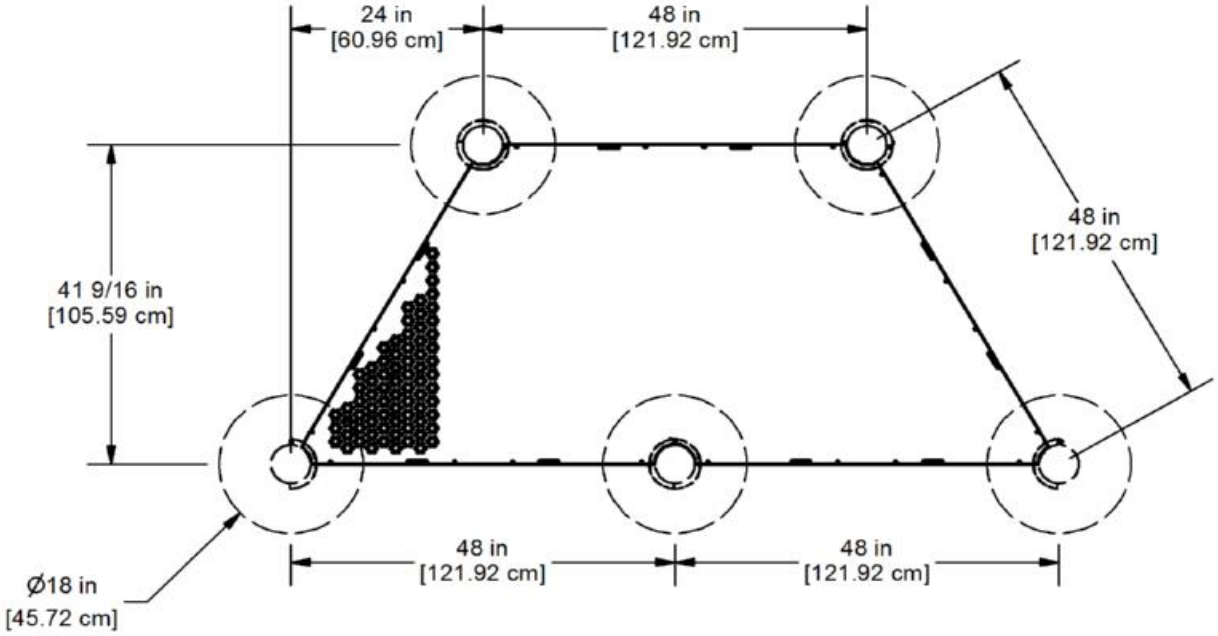
Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

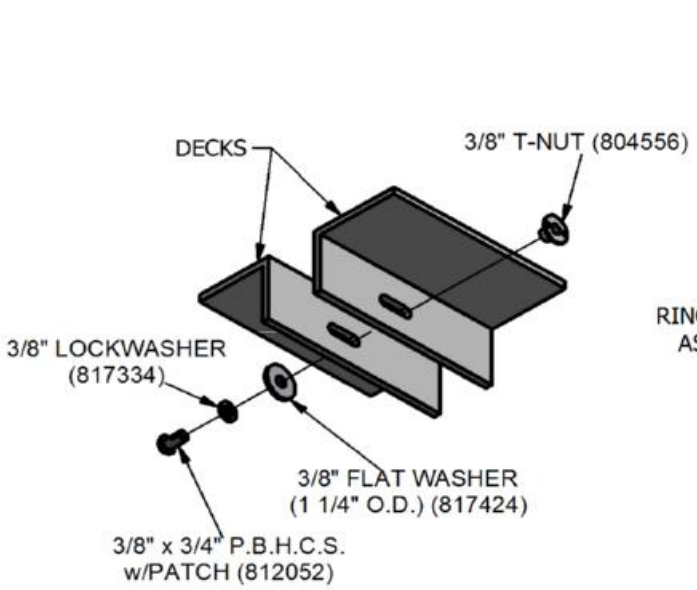


FINISHED ASSEMBLY

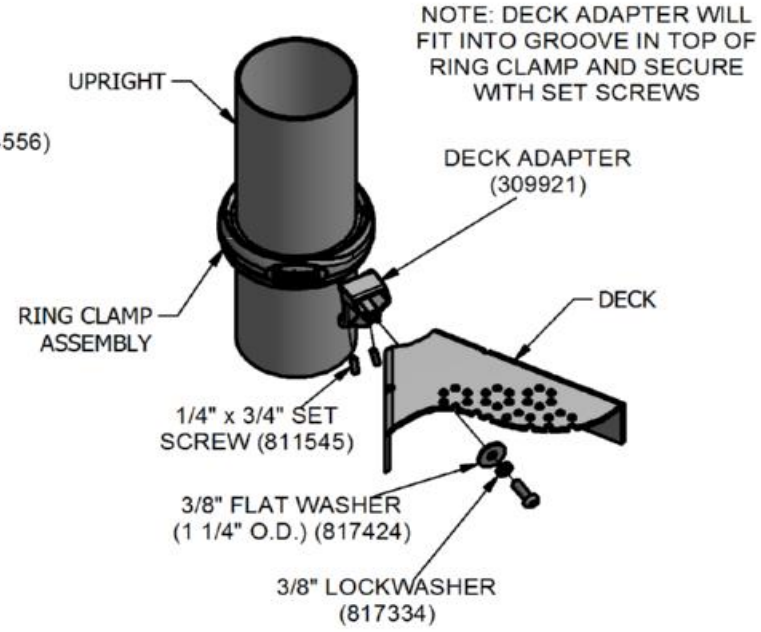
71003 Semi-Hex Deck



71003 Semi-Hex Deck



061



447

SuperMax Play Systems

71031 RING CLAMP ASSEMBLY

Parts List		
DESCRIPTION	QTY	PART NUMBER
RING CLAMP	1	309911
HARDWARE COMPLETE	1	309998
1/4" x 1" DRIVE RIVET	1	805302*
1/4" x 1 1/4" P.B.H.C.S.	1	812083*

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Locate uprights to receive Ring Clamp Assemblies (Refer to individual component installation sheets for clamp heights).

2. Attach Ring Clamp to upright using 1/4" x 1 1/4" PBHCS. Tighten screw only enough to hold the clamps position on the upright. Adjustment may be neccasary. See Detail 452.
IMPORTANT: Orientation of bolt is critical.

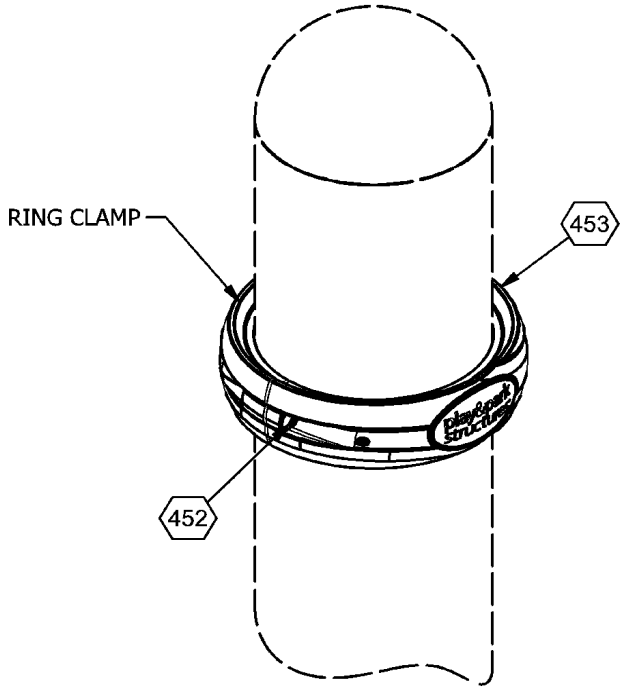
3. Install required components to the attaching to the Ring Clamp. See Top View and Seperate component installation sheets.

4. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. A 1/4" diameter hole must be drilled into the clamp and upright to receive drive rivet. Use Pre-determined drill points on ring clamp. See Detail 453. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment

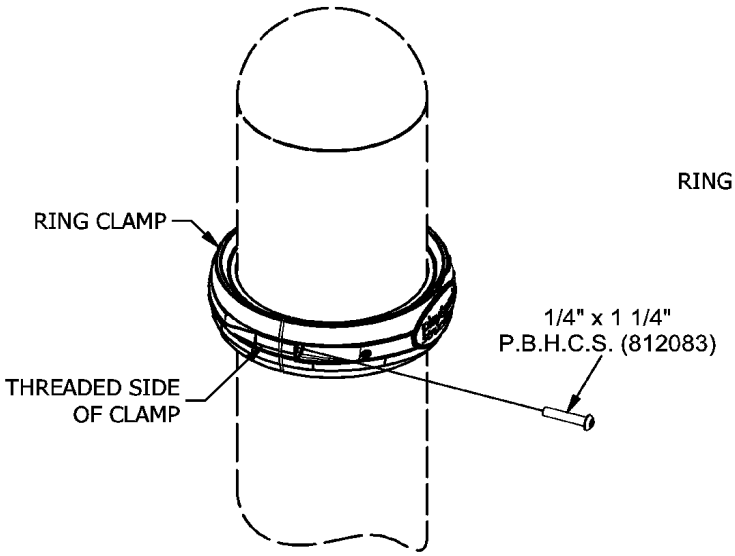
UPRIGHT AND CAP
SOLD SEPERATELY



FINISHED ASSEMBLY

⬡ = INSTALLATION DETAIL

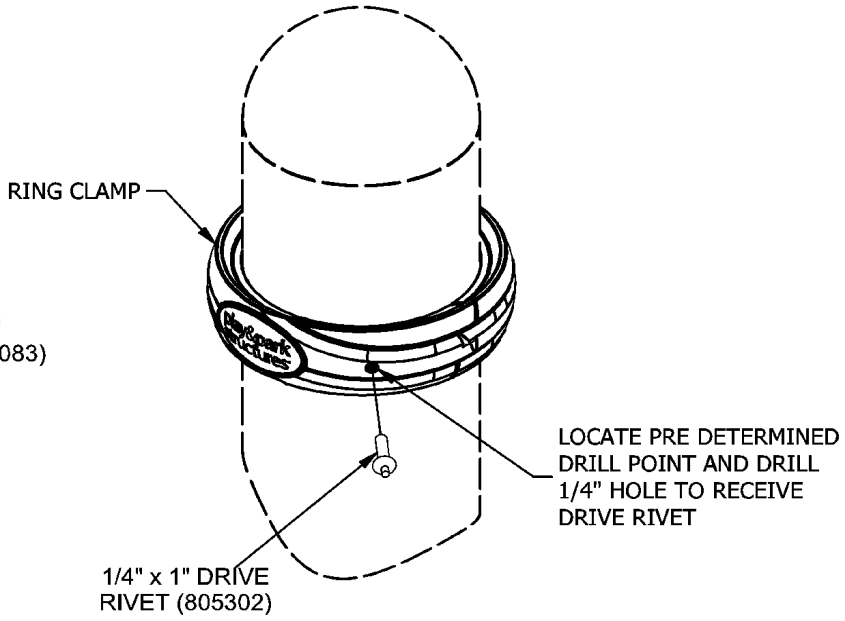
71031 RING CLAMP ASSEMBLY



NOTE: THE USE OF LOCTITE IS IMPORTANT.

IMPORTANT: ORIENTATION OF BOLT IS CRITICAL.

452



453

SuperMax Play Systems

Inclined Wall Climber 71101 (2'-0"); 71102 (2'-8"); 71103 (3'-4"); 71104 (4'-0"); 71105 (4'-8"); 71106 (5'-4"); 71107 (6'-0")

Parts List									
ITEM	DESCRIPTION	71101	71102	71103	71104	71105	71106	71107	PART NUMBER
1	ENTRY ARCHWAY	1	1	1	1	1	1	1	309984
2	INCLINED WALL PANEL	1	0	0	0	0	0	0	308475
2	INCLINED WALL PANEL	0	1	0	0	0	0	0	308308
2	INCLINED WALL PANEL	0	0	1	0	0	0	0	308480
2	INCLINED WALL PANEL	0	0	0	1	0	0	0	308313
2	INCLINED WALL PANEL	0	0	0	0	1	0	0	308485
2	INCLINED WALL PANEL	0	0	0	0	0	1	0	308318
2	INCLINED WALL PANEL	0	0	0	0	0	0	1	308323
3	INCLINED WALL FRAME	1	0	0	0	0	0	0	308471
3	INCLINED WALL FRAME	0	1	0	0	0	0	0	308513
3	INCLINED WALL FRAME	0	0	1	0	0	0	0	308477
3	INCLINED WALL FRAME	0	0	0	1	0	0	0	308516
3	INCLINED WALL FRAME	0	0	0	0	1	0	0	308482
3	INCLINED WALL FRAME	0	0	0	0	0	1	0	308519
3	INCLINED WALL FRAME	0	0	0	0	0	0	1	308522
4	PIPE ADAPTER	2	2	2	2	2	2	2	309915
	-----HARDWARE COMPLETE-----	1	0	0	0	0	0	0	315150
	-----HARDWARE COMPLETE-----	0	1	1	0	0	0	0	315151
	-----HARDWARE COMPLETE-----	0	0	0	1	0	0	0	315152
	-----HARDWARE COMPLETE-----	0	0	0	0	1	0	0	315153
	-----HARDWARE COMPLETE-----	0	0	0	0	0	1	0	315154
	-----HARDWARE COMPLETE-----	0	0	0	0	0	0	1	315155
	1/4" x 3/4" SET SCREW	4	4	4	4	4	4	4	811545
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	4	4	4	812054
	3/8" x 2" P.B.H.C.S. w/PATCH	6	8	8	10	12	14	16	812055
	3/8" FLAT WASHER	2	2	2	2	2	2	2	817410
	3/8" LOCK WASHER	10	12	12	14	16	18	20	817334
	3/8" BARREL NUT	8	10	10	12	14	16	18	804804
	3/8" T-NUT	2	2	2	2	2	2	2	804556

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

Inclined Wall Climber 71101 (2'-0"); 71102 (2'-8"); 71103 (3'-4"); 71104 (4'-0"); 71105 (4'-8"); 71106 (5'-4"); 71107 (6'-0")

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Inclined Wall Climber, refer to your overhead drawing for location. Dig footings at location and depth shown.

2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from any holes to be used on deck. Be careful not to expose the steel.

3. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.

4. Place the tabs at the bottom of the Entry Archway into the slots on the deck. Slip the Pipe Adapters onto the Entry Archway attachment pipes, then move the Entry Archway into position. Hook the Pipe Adapters onto the Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 448. Connect Entry Archway to Pipe Adapter using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washers and 3/8" Barrel Nuts as shown in Detail 448.

5. Place Inclined Wall Frame into dug hole and secure Frame and tabs to deck using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" T-Nut as shown in Detail 295. Make sure the Entry Archway is plumb.

6. Attach the Inclined Wall Panel to the Inclined Wall Frame using 3/8" x 2" P.B.H.C.S. with Patch, 3/8" Lock Washer, and 3/8" Barrel Nut as shown in Detail 983.

7. When the Inclined Wall Climber is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

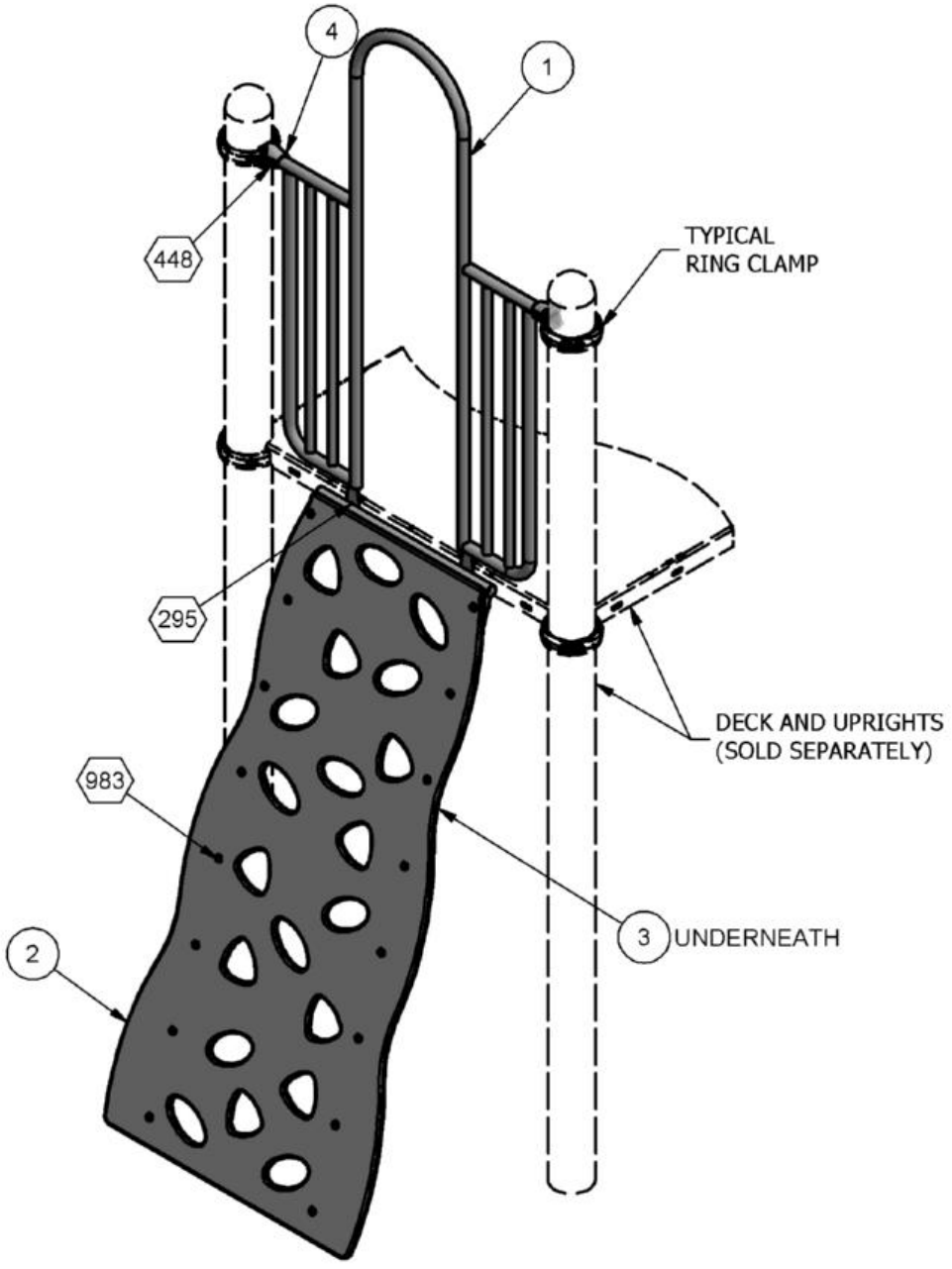
8. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

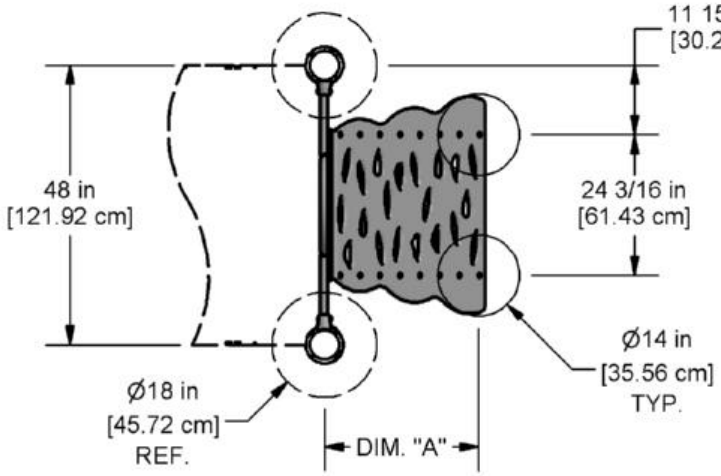
Inclined Wall Climber 71101 (2'-0"); 71102 (2'-8"); 71103 (3'-4"); 71104 (4'-0"); 71105 (4'-8"); 71106 (5'-4"); 71107 (6'-0")



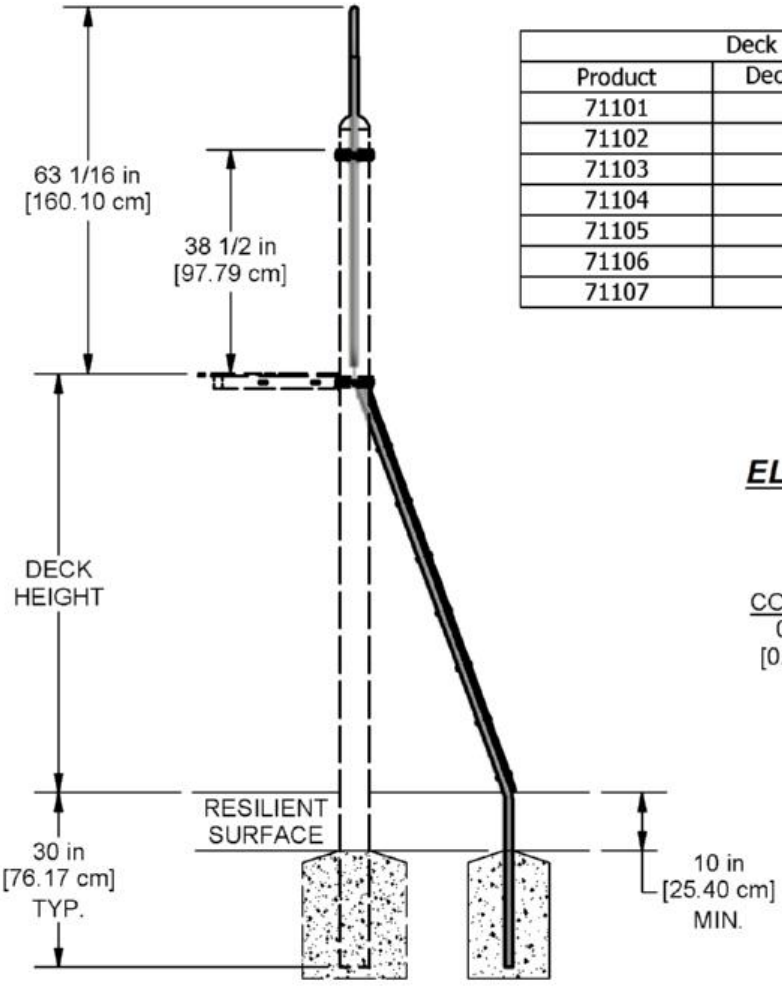
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
71107 - 6'-0" SHOWN

Inclined Wall Climber 71101 (2'-0"); 71102 (2'-8"); 71103 (3'-4"); 71104 (4'-0"); 71105 (4'-8"); 71106 (5'-4"); 71107 (6'-0")



PLAN VIEW

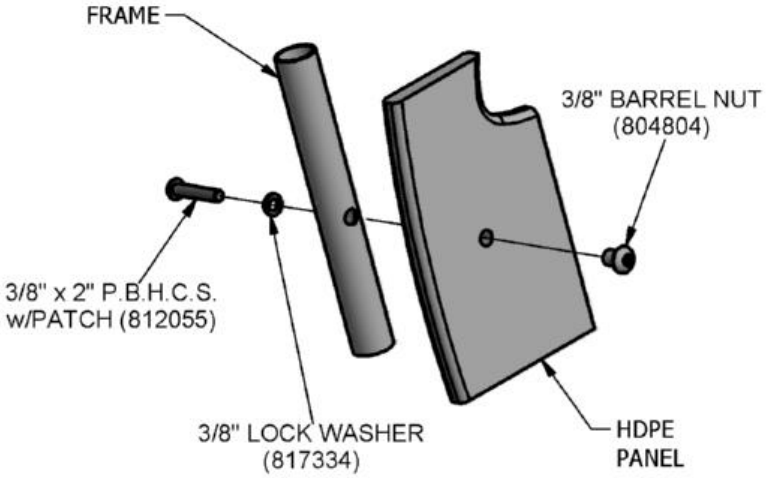


Deck Height Table		
Product	Deck Height	Dim. "A"
71101	2'-0"	9" [22.91cm]
71102	2'-8"	12" [30.30cm]
71103	3'-4"	15" [37.71cm]
71104	4'-0"	18" [45.11cm]
71105	4'-8"	20 1/2" [52.51cm]
71106	5'-4"	23 1/2" [59.91cm]
71107	6'-0"	26 1/2" [67.33cm]

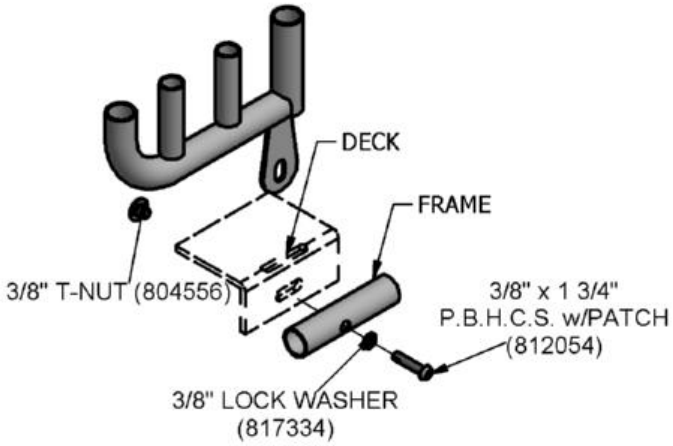
ELEVATION VIEW

CONCRETE REQUIRED
0.14 CUBIC YARDS
[0.10 CUBIC METERS]

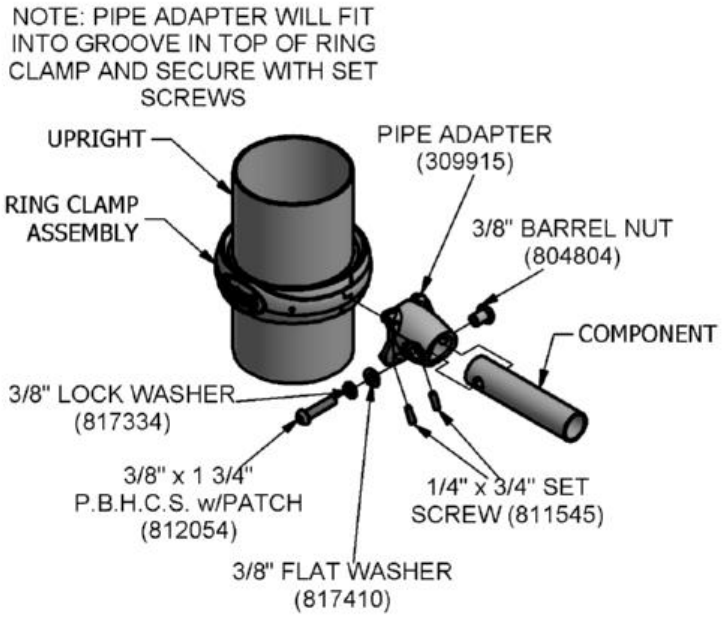
Inclined Wall Climber 71101 (2'-0"); 71102 (2'-8"); 71103 (3'-4"); 71104 (4'-0"); 71105 (4'-8"); 71106 (5'-4"); 71107 (6'-0")



983



295



448

SuperMax Play Systems

71420 Space Shuttle Launch Panel

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	SPACE SHUTTLE LAUNCH PANEL ASSEMBLY	1	310760
2	PANEL ADAPTER	4	309919
	-----HARDWARE COMPLETE-----	1	310638
	1/4" x 3/4" SET SCREW	8	811545
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	812053
	3/8" FLAT WASHER	4	817410
	3/8" BARREL NUT	4	804804

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Space Shuttle Launch Panel Assembly, refer to your overhead drawing for location.

2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.

3. Hook the Panel Adapters onto the Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 467.

4. Connect Space Shuttle Launch Panel Assembly to Panel Adapters using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washers and 3/8" Barrel Nuts as shown in Detail 467.

5. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

Note: Panels should be positioned so that the top of each panel is at least 29" above the deck surface for 2-5 year olds and at least 38" above the deck surface for 5-12 year olds. If a conflict exists between a clamp and an adjacent component's clamp, adjust the panel upward (Never lower than 38" above deck) without exceeding a maximum gap of 3-1/2" between the lower end of the panel and the top edge of the deck.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

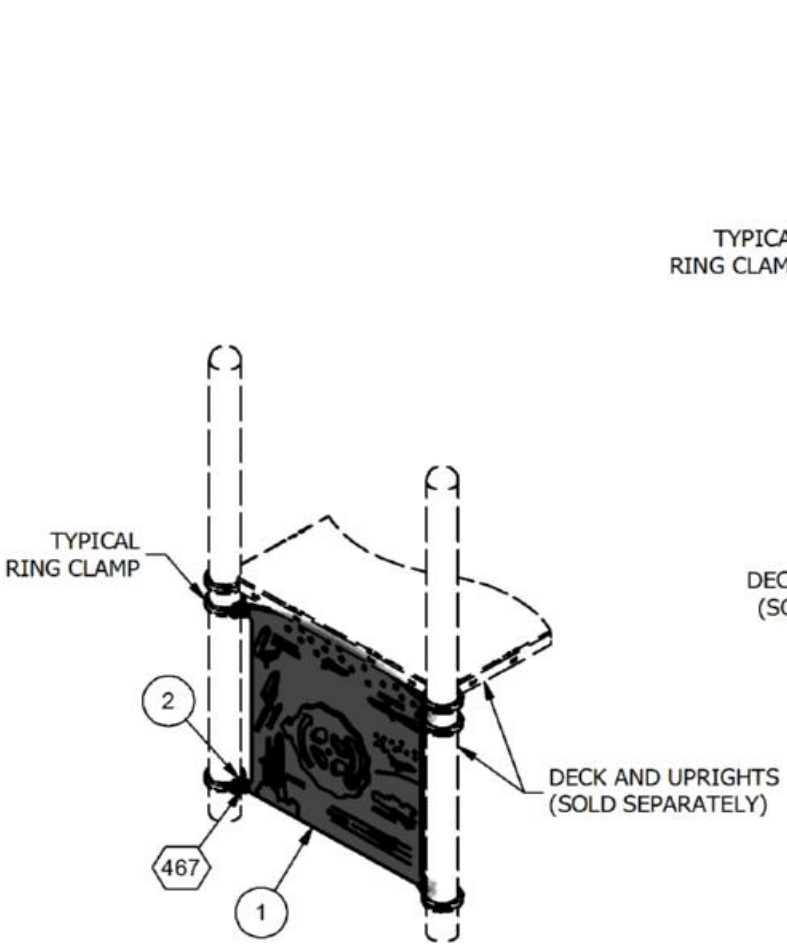
When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

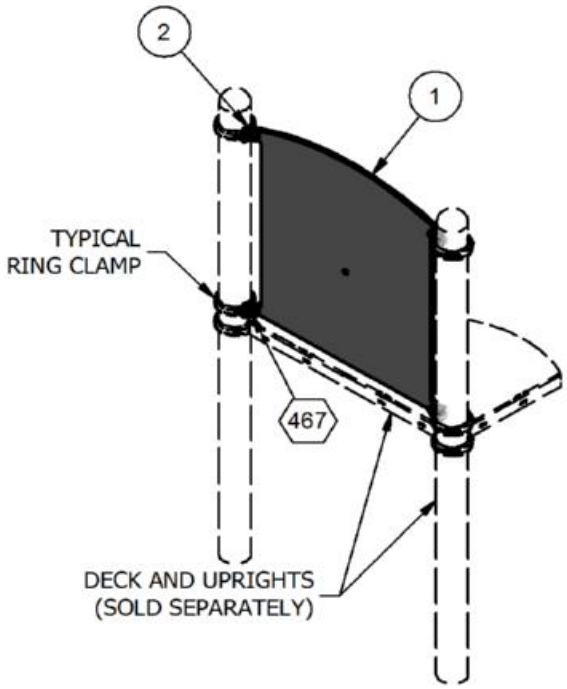
71420 Space Shuttle Launch Panel

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



BELOW DECK

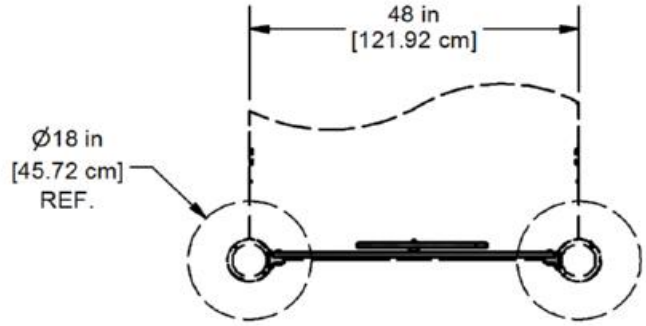


ABOVE DECK

⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

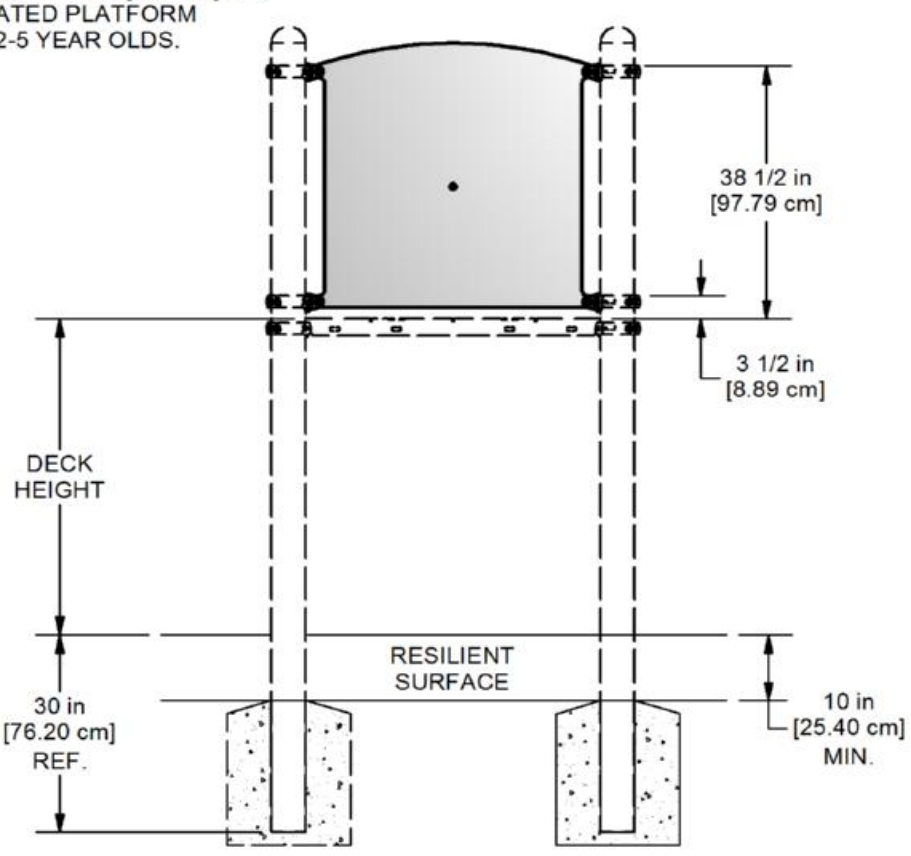
71420 Space Shuttle Launch Panel



PLAN VIEW

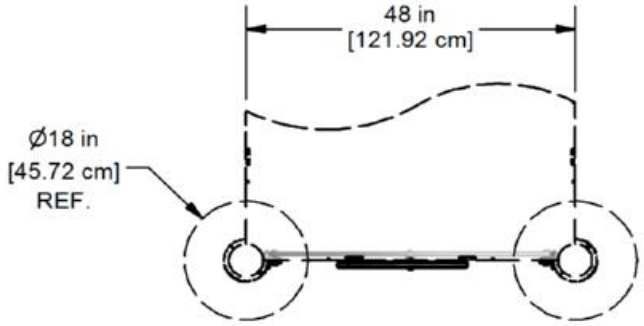
NOTE:
TOP EDGE OF PANEL MUST BE 38" [965mm] OR GREATER ABOVE ELEVATED PATFORM SURFACE FOR USE BY 5-12 YEAR OLDS.

TOP EDGE OF PANEL MUST BE 29"[736mm] OR GREATER ABOVE ELEVATED PLATFORM SURFACE FOR USE BY 2-5 YEAR OLDS.



ELEVATION VIEW

71420 Space Shuttle Launch Panel

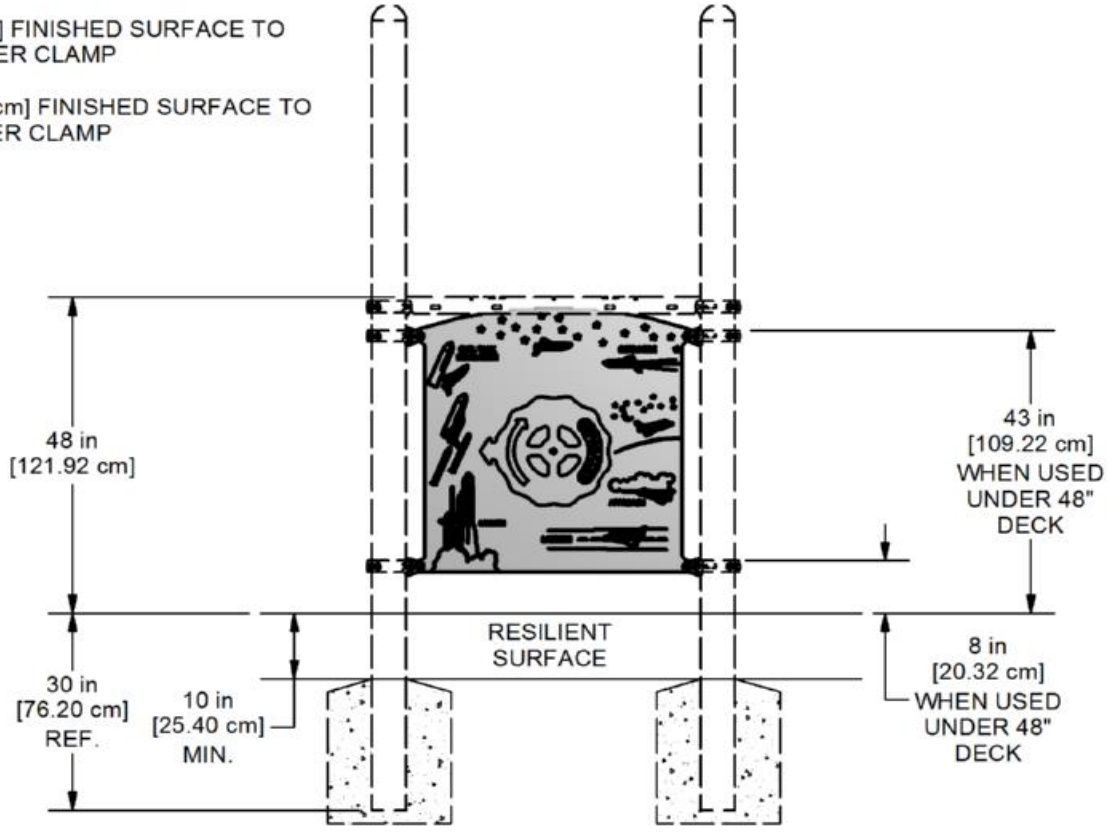


PLAN VIEW

CLAMP HEIGHT LOCATIONS WHEN USED UNDER ANY DECK HEIGHT EXCEPT 48" SHALL BE:

3 1/2" [8.89cm] FINISHED SURFACE TO TOP OF LOWER CLAMP

38 1/2" [97.79cm] FINISHED SURFACE TO TOP OF UPPER CLAMP

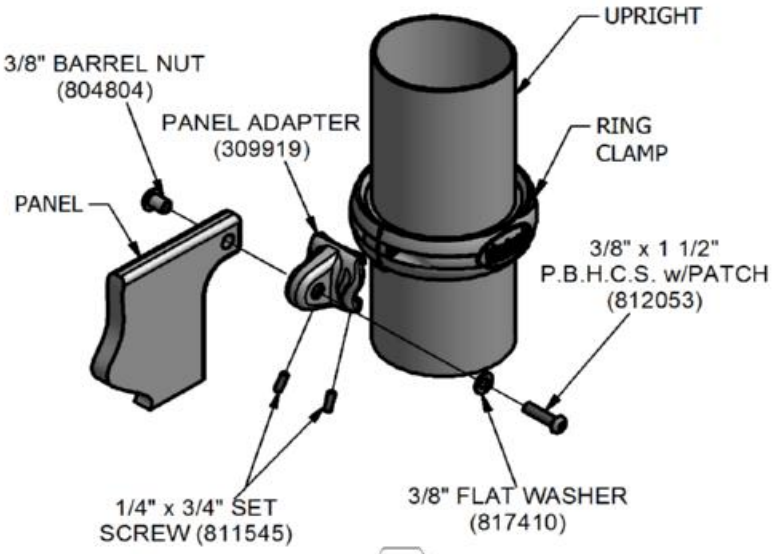


ELEVATION VIEW

71420 Space Shuttle Launch Panel

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



467

SuperMax Play Systems

Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")

Parts List				
ITEM	DESCRIPTION	71476	71477	PART NUMBER
1	ATTACHMENT RAIL	2	2	311741
2	STAIRS (3'-4" RISE)	1	0	307288
2	STAIRS (4' RISE)	0	1	307297
3	BARRIER (56" DECK)	2	0	311639
3	BARRIER (64" DECK)	0	2	311643
4	PLATFORM	1	1	309853
5	PLATFORM SUPPORT	1	1	160662
6	HAND HOLD ASS'Y	1	1	306838
7	PIPE ADAPTER	2	2	309915
8	SUPPORT PIPE	1	1	313653
	----HARDWARE COMPLETE----	1	0	315973
	----HARDWARE COMPLETE----	0	1	315975
	1/4" x 3/4" SET SCREW	4	4	811545
	3/8" x 3/4" P.B.H.C.S. w/PATCH	5	5	812052
	3/8" x 1" P.B.H.C.S. w/PATCH	4	4	812050
	3/8" x 1 1/4" B.H.C.S.	1	1	811051
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	10	14	812054
	3/8" x 2 1/4" P.B.H.C.S. w/PATCH	1	1	812056
	3/8" x 2 1/2" P.B.H.C.S. w/PATCH	4	4	812057
	1/2" FLAT WASHER	8	12	817412
	3/8" FLAT WASHER	2	2	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	13	13	817424
	3/8" LOCK WASHER	19	23	817334
	3/8" BARREL NUT	2	2	804804
	3/8" LOCK NUT	6	6	804353
	3/8" T-NUT	16	20	804556
	3/8" HEX NUT	1	1	804053

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")

INSTALLATION INSTRUCTIONS:

1. Locate the appropriate deck to attach the Triangular Transfer Point.

2. Dig holes to receive the Platfom Support, Handhold and Barriers according to dimensions shown in Plan View. Footing Dimension is specified in Elevation View.

3. Attach Platform Support to the bottom of the Platform using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Tee Nut. See Detail 247. Attach Support Pipe to the corner of Platform using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flatwasher, 3/8" Lockwasher, and 3/8" Hex Nut. See Detail 822.

4. Attach the Handhold to the Platform using the other outermost slot in the longest side of the platform with 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer and 3/8" Tee Nut. See Detail 125.

5. With sufficient manpower, lift the stair and fasten to deck and to the Platform using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut. See Detail 600 and Detail 984. Provide additional temporary support to the Stair until the Barriers are fastened.

6. Attach two Ring Clamps to the Uprights. (See Ring Clamp Installation sheet)

7. Attach the two Attachment Rails to Ring Clamps with 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer and 3/8" Barrel Nut. See Detail 448.

8. Attach the bottom tab of the Attachment rails to the decks with 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut. See Detail 449.

9. Using Detail 145, fasten the Barriers to the Attachment Rails with 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Tee Nut.

10. Fasten the Barriers to the Stair with 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 1/2" Flat Washer and 3/8" Tee Nut according to Detail 599.

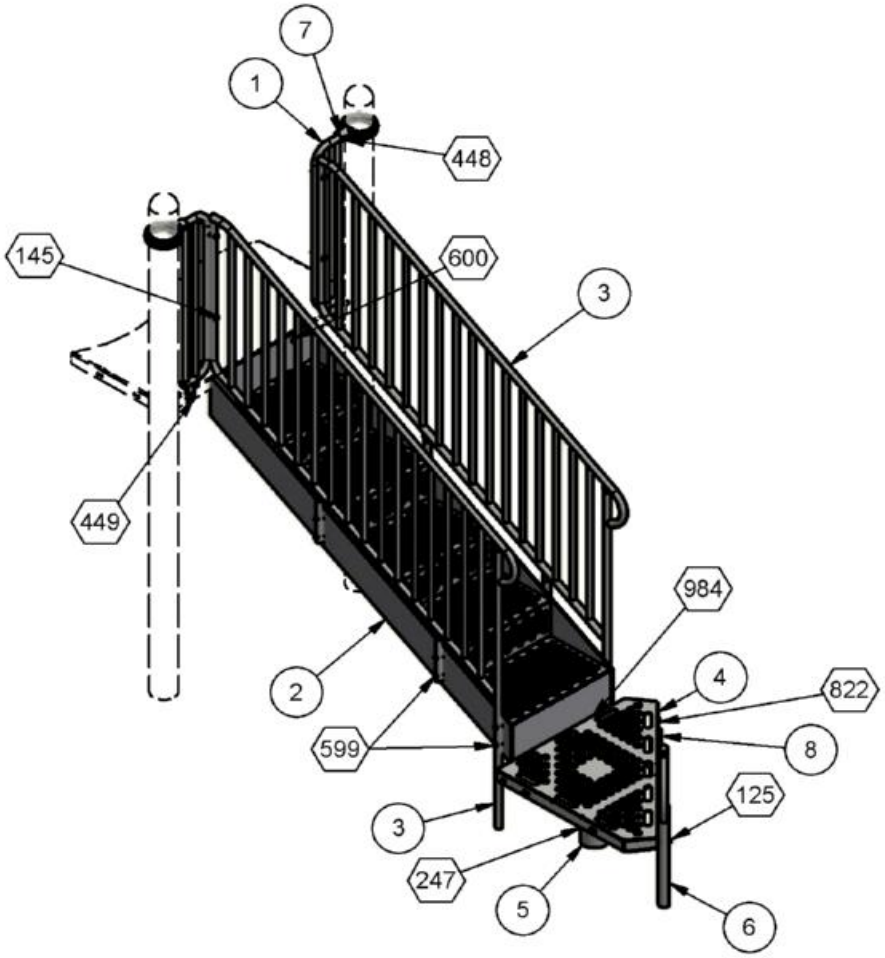
11 Plumb and Level the entire assembly. Pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

12. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment

Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")

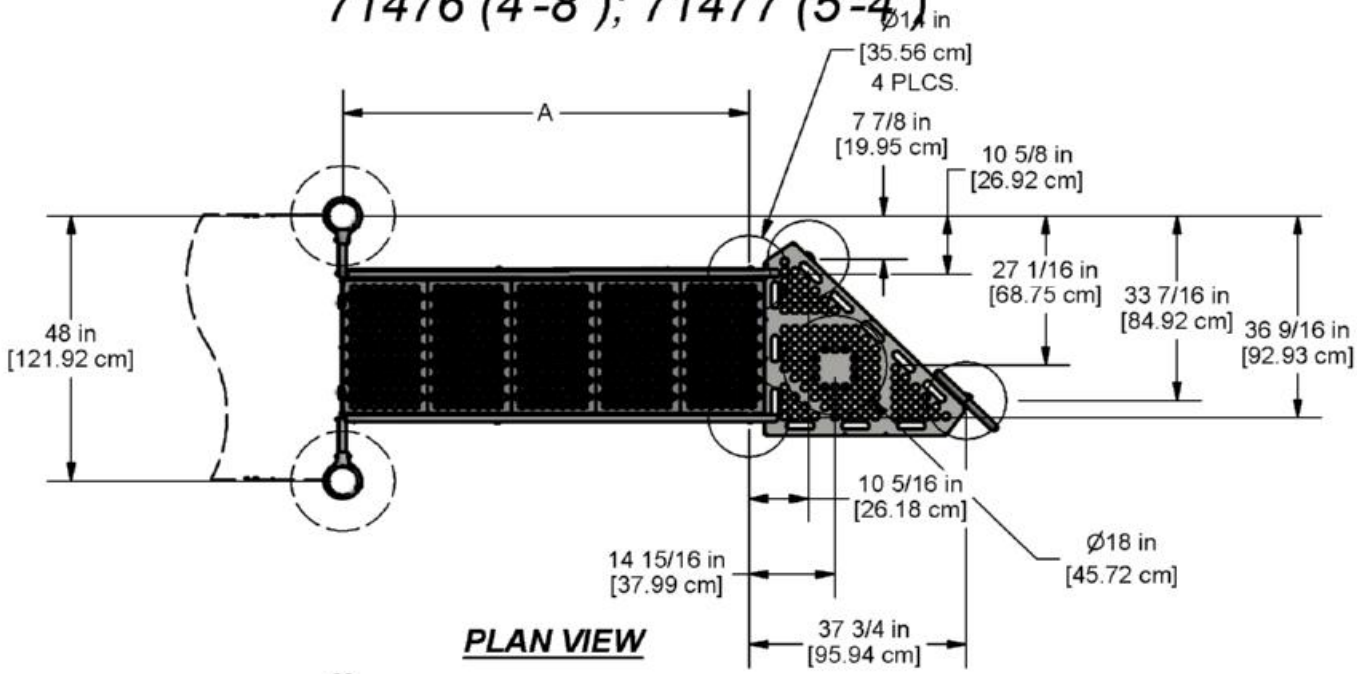


FINISHED ASSEMBLY
(71477 SHOWN)

⬡ = INSTALLATION DETAIL

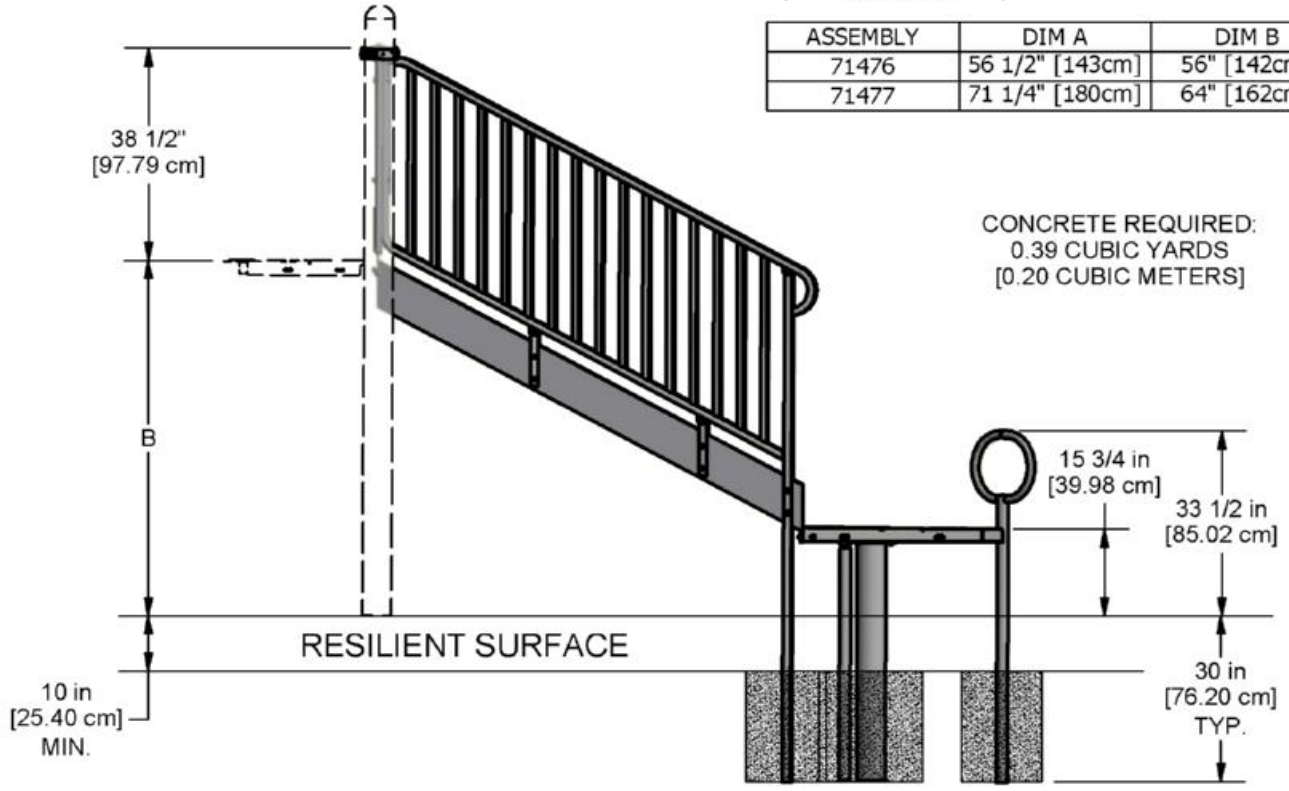
71010 SHOWN

Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")



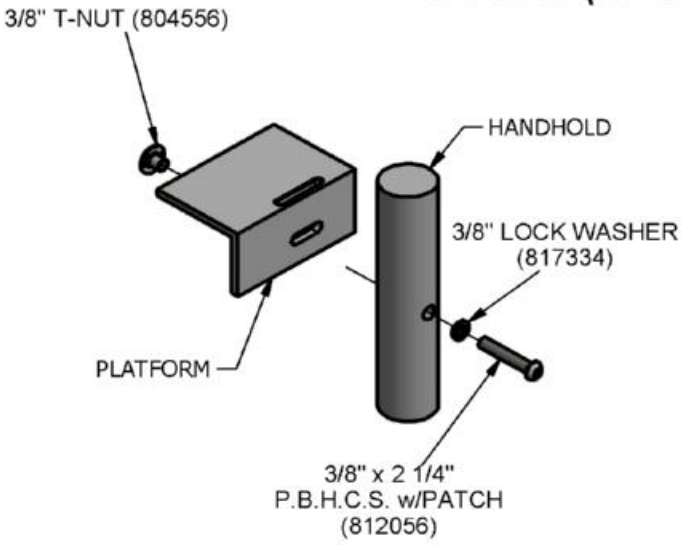
PLAN VIEW

ASSEMBLY	DIM A	DIM B
71476	56 1/2" [143cm]	56" [142cm]
71477	71 1/4" [180cm]	64" [162cm]

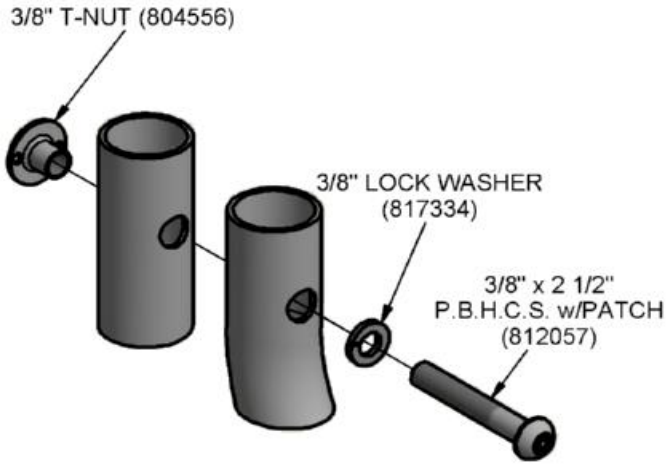


ELEVATION VIEW

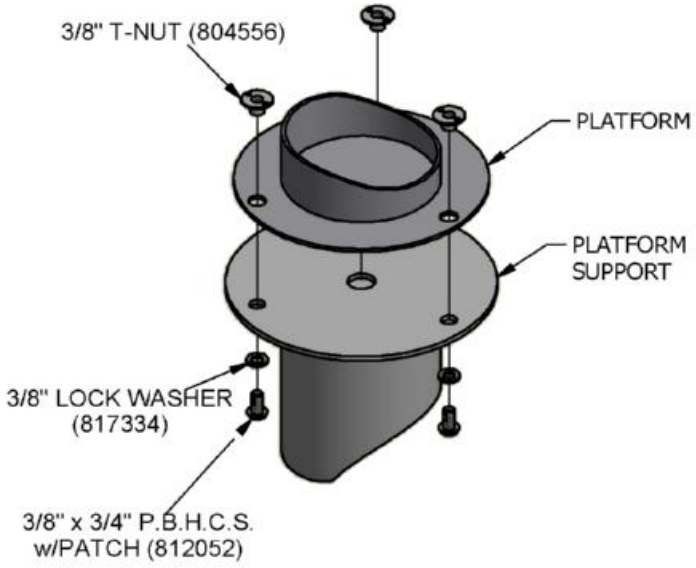
Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")



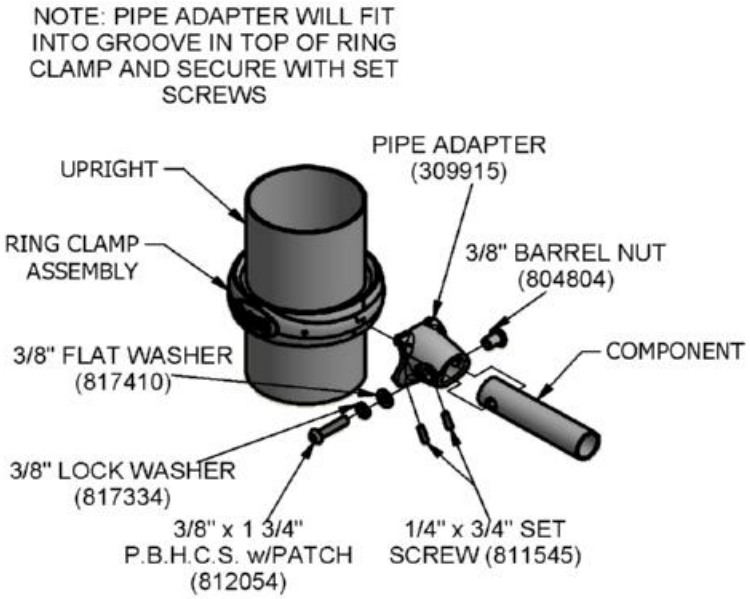
125



145

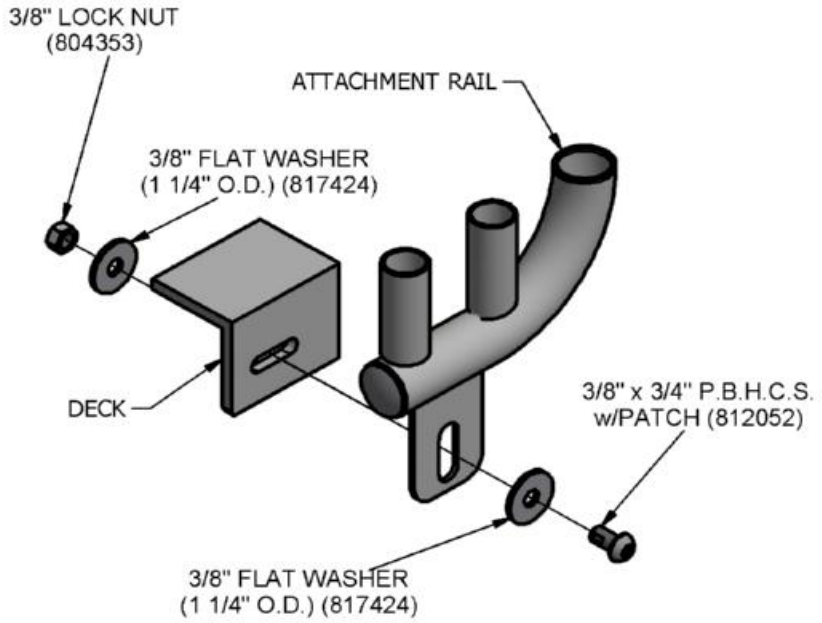


247

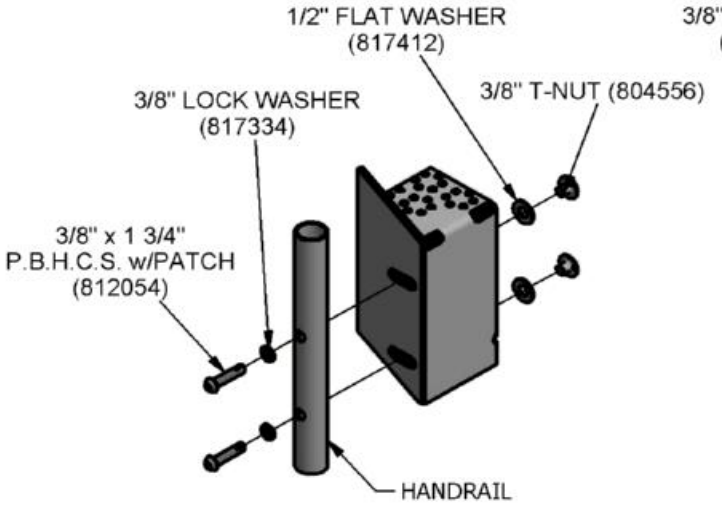


448

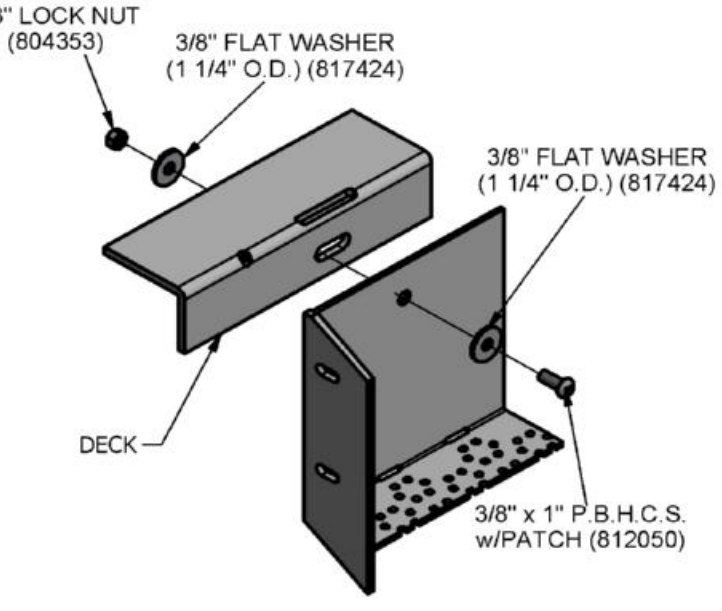
Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")



449

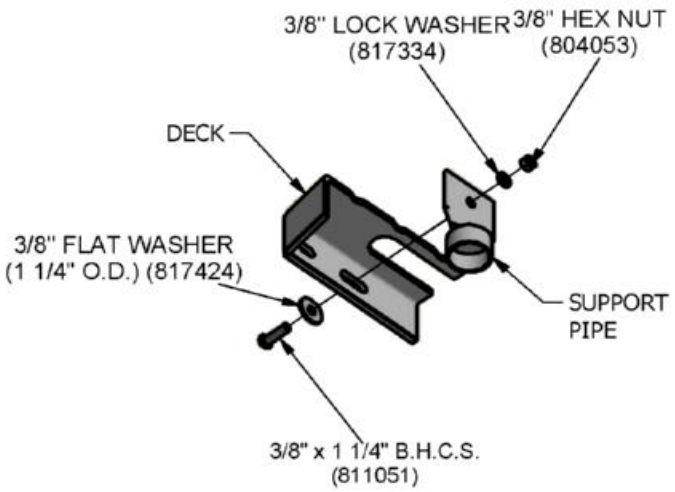


599

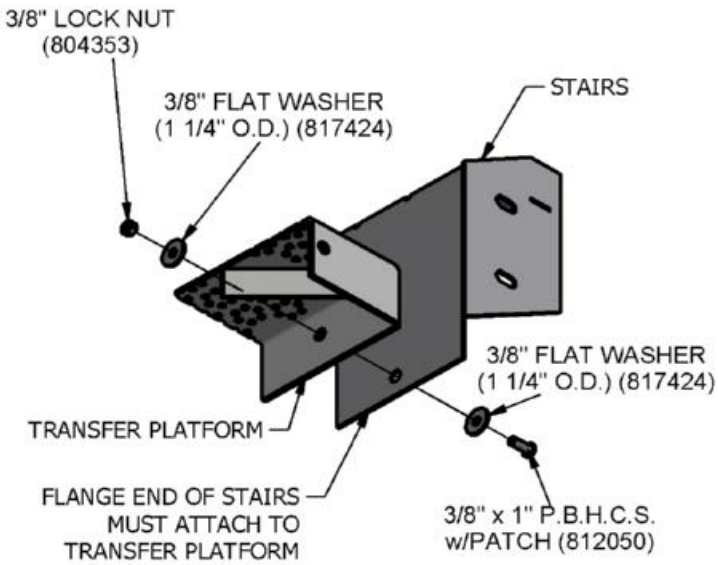


600

Triangle Transfer Point w/Barrier
71476 (4'-8"); 71477 (5'-4")



822



984

71503 Flat Cap Package

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	COATED FLAT CAP	1	139454
2	1/4" x 3/4" DRIVE RIVET	2	168449

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Assemble using Drive Rivets as shown in Detail 622.

2. Drive Rivets must not interfer with Ring Clamp.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

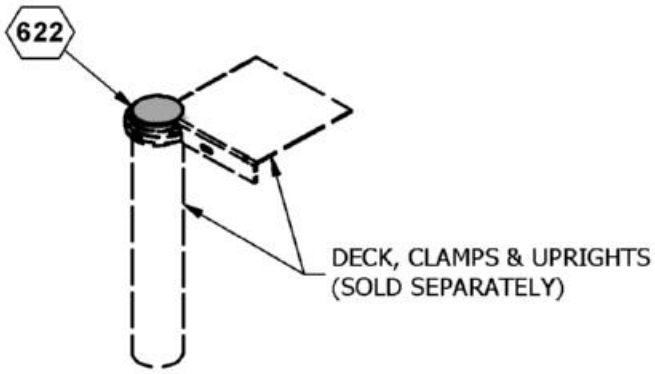
When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

71503 Flat Cap Package

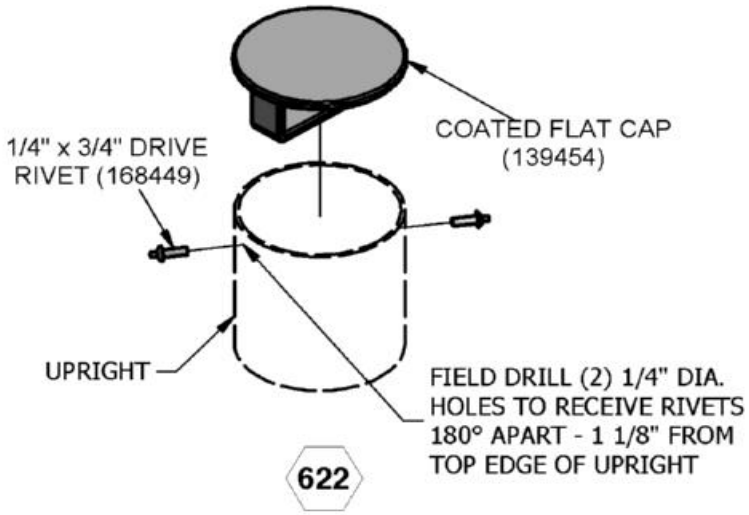
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



GENERIC LENGTH POST SENT WITH ORDER. IF REQUIRED, CUT POSTS TO CORRECT LENGTH. TOP OF CAP MUST BE FLUSH WITH TOP SURFACE OF DECK.

FINISHED ASSEMBLY



⬡ = INSTALLATION DETAIL

SuperMax Play Systems

71660 SINGLE VELOCITY WAVE SLIDE (6')

Parts List		
DESCRIPTION	QTY	PART NUMBER
SLIDE HOOD	1	312484
6' SINGLE VELOCITY WAVE SLIDE	1	176154
FOOTBUCK	1	176384
PANEL ADAPTER	2	309919
HARDWARE COMPLETE	1	312601*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051*
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" BARREL NUT	2	804804*
3/8" FLAT WASHER	6	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424*
3/8" LOCK WASHER	4	817334*
1/4" x 3/4" SET SCREW	4	811545*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Single Velocity Wave Slide and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.

2. Attach Ring Clamps to the Uprights. See Ring Clamp Installation sheet.

3. Attach Panel Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 672.

4. Attach Foot Buck to Slide using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock washer and 3/8" Flat Washer. See Detail 024.

5. Attach Slide to Deck using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, and 3/8" Flat Washer (1 1/4" O.D.). See detail 136.

6. Attach Slide Hood to Panel Adapters using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer and 3/8" Barrel Nut. See detail 672.

7. Attack Slide to Slide Hood using 3/8" x 1 3/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See detail 673.

8. Plumb and level the entire assembly and tighten all fasteners.

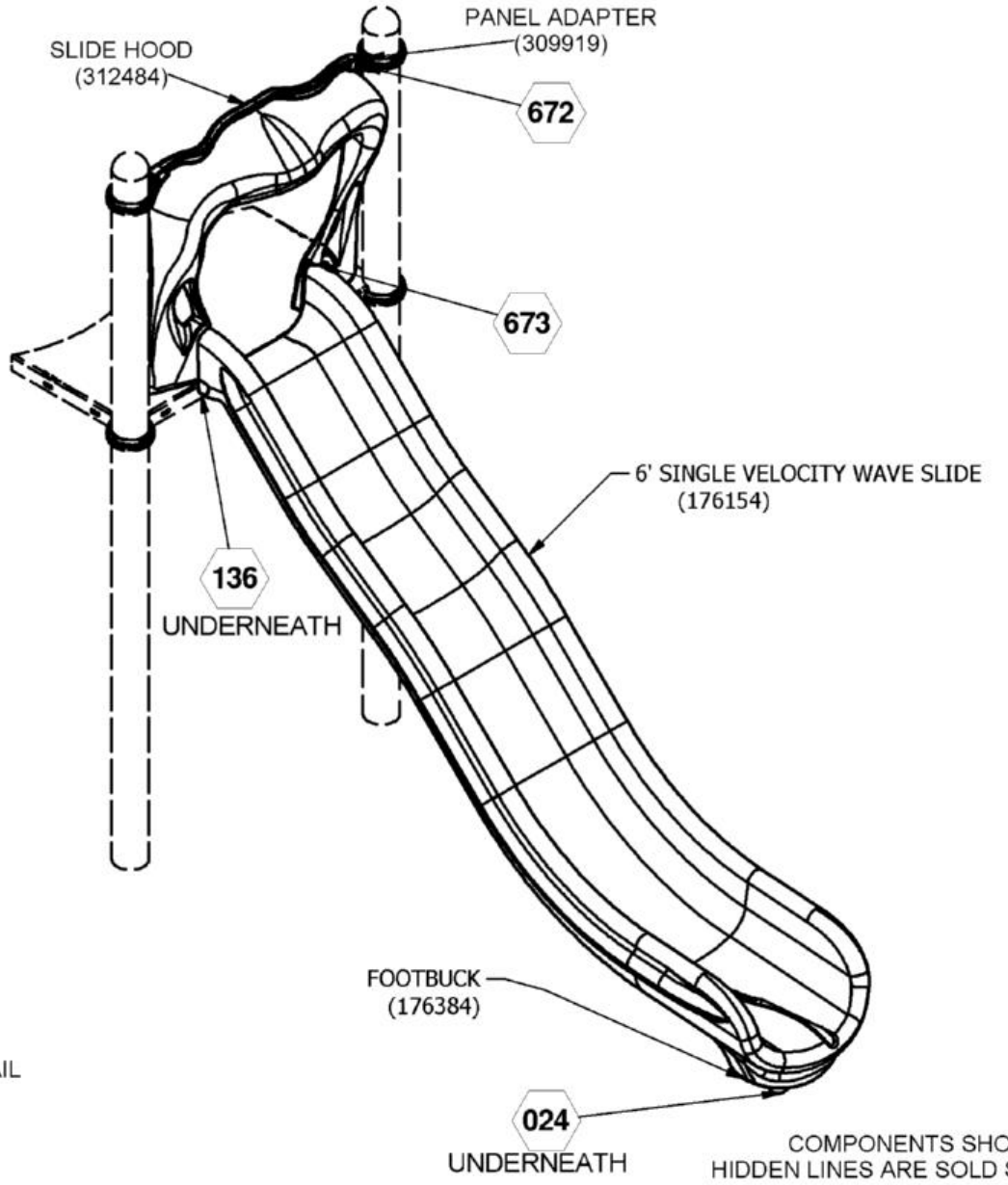
9. After entire unit is assembled pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

71660 SINGLE VELOCITY WAVE SLIDE (6')

10. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

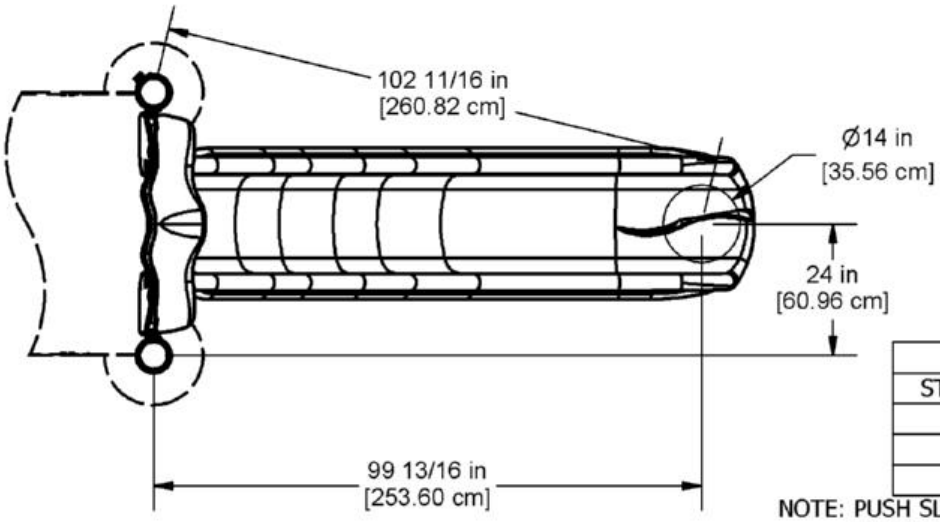


= INSTALLATION DETAIL

FINISHED ASSEMBLY

SuperMax Play Systems

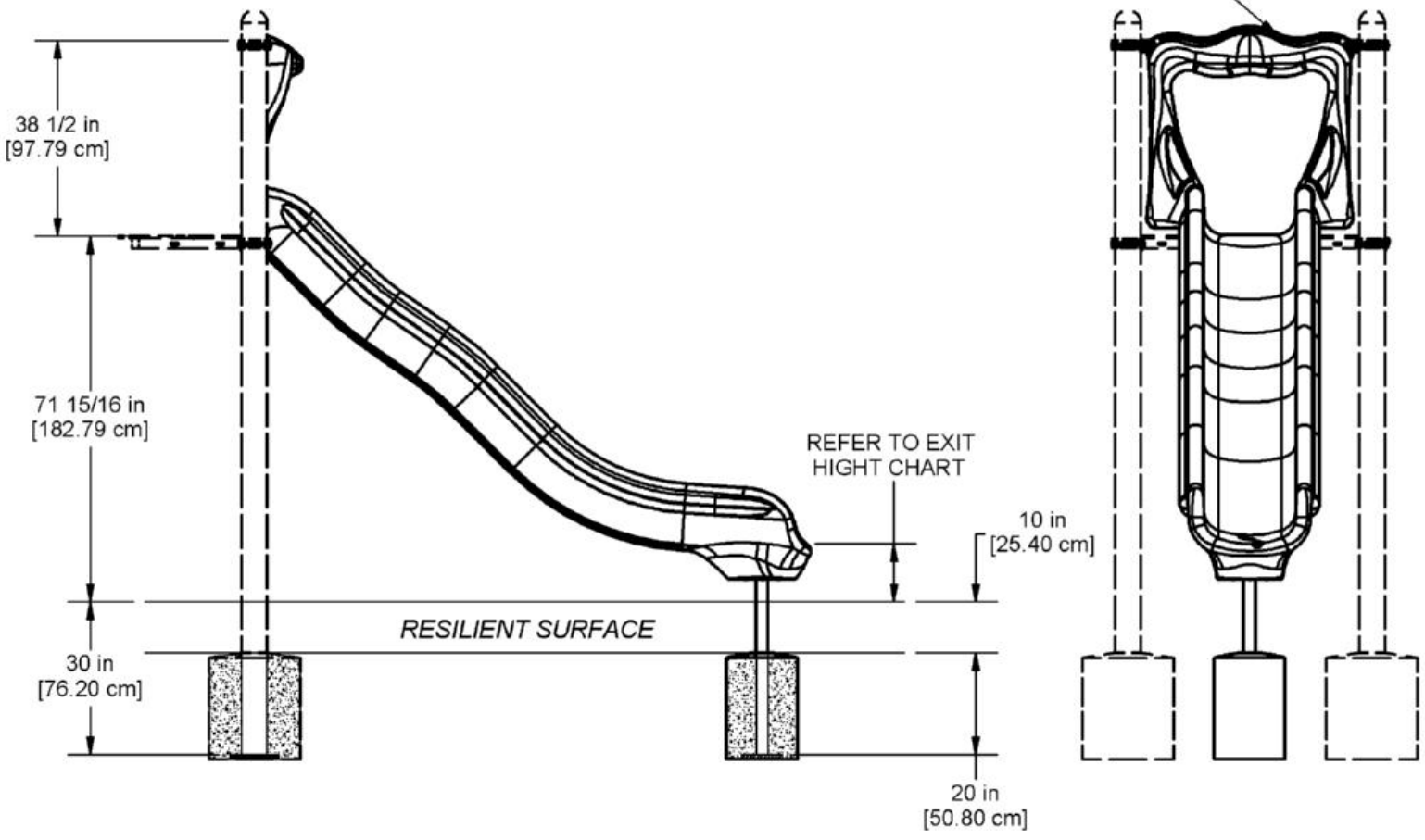
71660 SINGLE VELOCITY WAVE SLIDE (6')



CONCRETE REQUIRED
.07 CUBIC YARDS
.05 [CUBIC METERS]

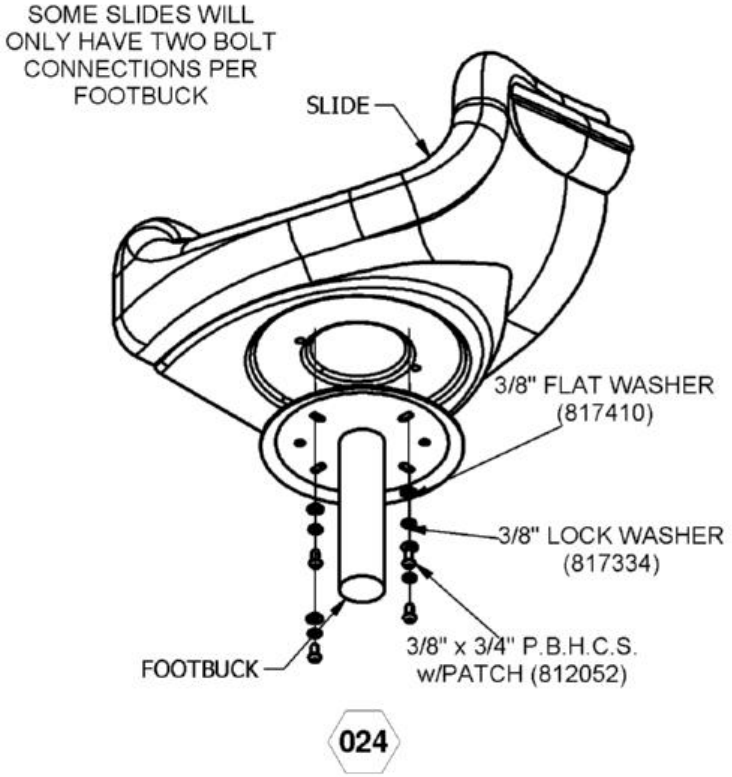
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

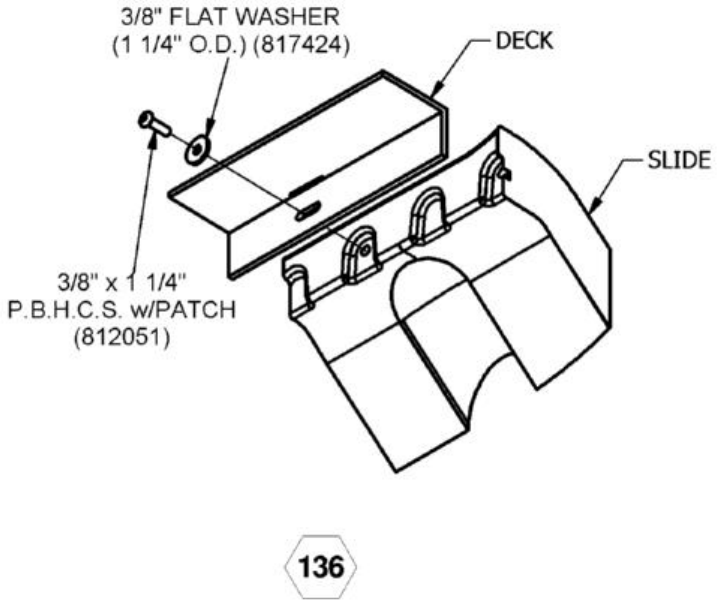
NOTE: PUSH SLIDE HOOD ALL THE WAY TO ONE SIDE

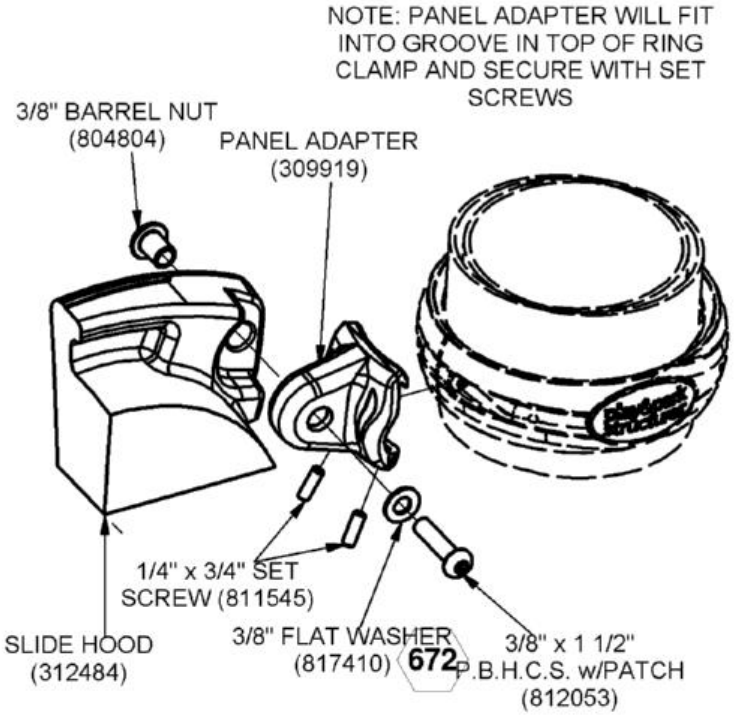


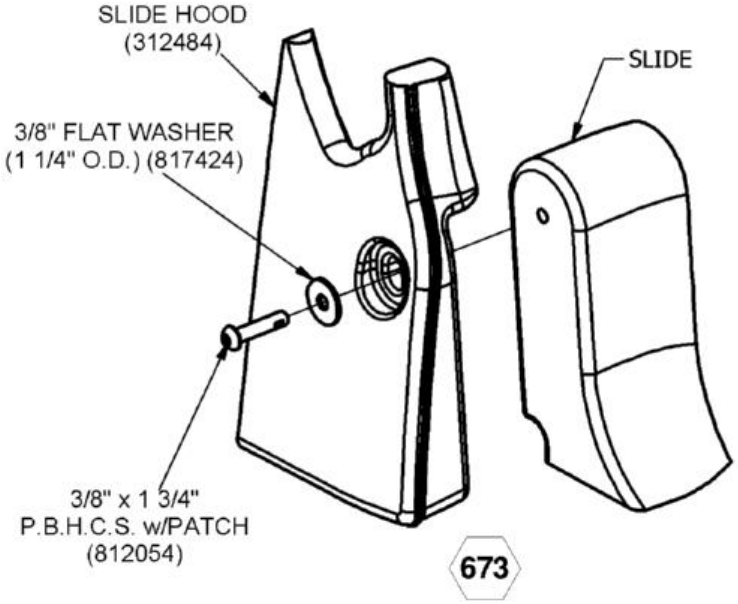
ELEVATION VIEW

71660 SINGLE VELOCITY WAVE SLIDE (6')









SuperMax Play Systems

71679 DOUBLE CURVED VELOCITY

Parts List		
DESCRIPTION	QTY	PART NUMBER
DOUBLE CURVED VELOCITY SLIDE	1	204591
PANEL ADAPTER	2	309919
DOUBLE ENTRANCE SLIDEHOOD	1	312730
FOOTBUCK PLATE	2	223226
FOOTBUCK PIPE 30.595"	2	224589
HARDWARE COMPLETE	1	317245
EXTENSION LEG	2	152110*
1/4" x 3/4" SET SCREW	4	811545*
3/8" x 3/4" P.B.H.C.S. w/PATCH	8	812052*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051*
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	2	HWS0081*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 2" P.B.H.C.S. w/PATCH	2	812055*
3/8" x 2 1/2" HEX HEAD BOLT	2	801009*
3/8" LOCK WASHER	10	817334*
3/8" FLAT WASHER	10	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	6	817424*
3/8" BARREL NUT	2	804804*
3/8" HEX NUT	2	804053*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71679 DOUBLE CURVED VELOCITY

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Double Curved Slide and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.

2. Attach Ring Clamps to the Uprights. See Ring Clamp Installation sheet.

3. Attach Panel Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 715.

4. Using Detail 1253, attach Foot Buck to Slide using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. Attach Footbuck pipe to Footbuck plate using 3/8" x 1 1/4" Self tapper. Place Foot Buck into footing holes and attach Double Curved Velocity Slide to Deck as referred in Detail 136, using 3/8" x 1 1/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.).

5. Attach Extension to Footbuck Pipe using 3/8" Hex nut, 3/8" Lock Washer and Bolt Chart on Detail 064.

6. Attach Slide Hood to Panel Adapters using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 715.

7. Attach Slide to Slide Hood using 3/8" x 2" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 716.

8. Plumb and level the entire assembly and tighten all fasteners.

9. After entire unit is assembled pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

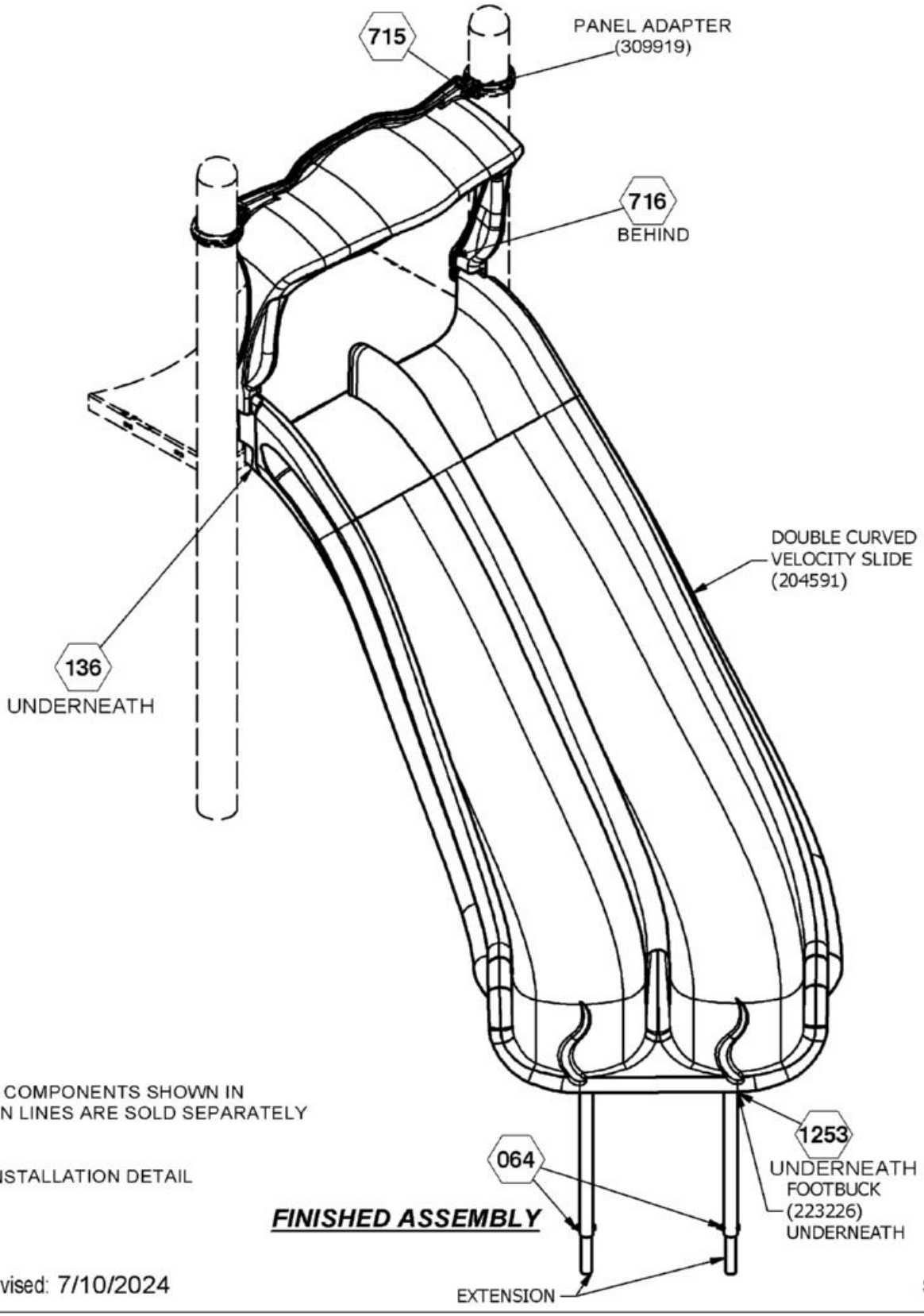
IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

9. When the structure is finished and satisfactory, Install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structures in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71679 DOUBLE CURVED VELOCITY



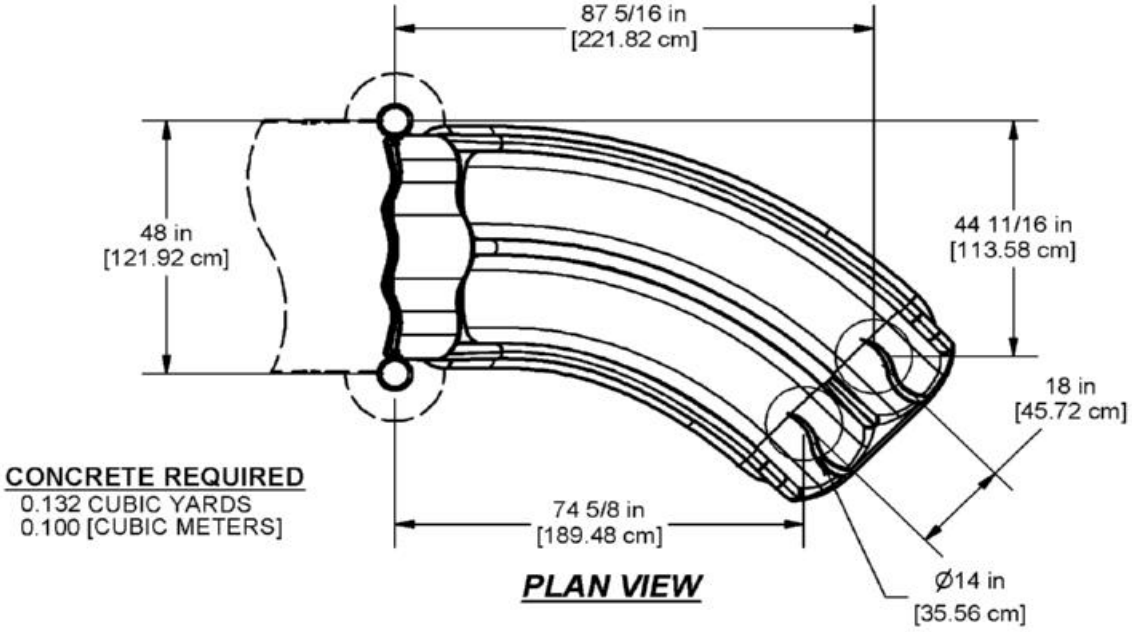
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

= INSTALLATION DETAIL

FINISHED ASSEMBLY

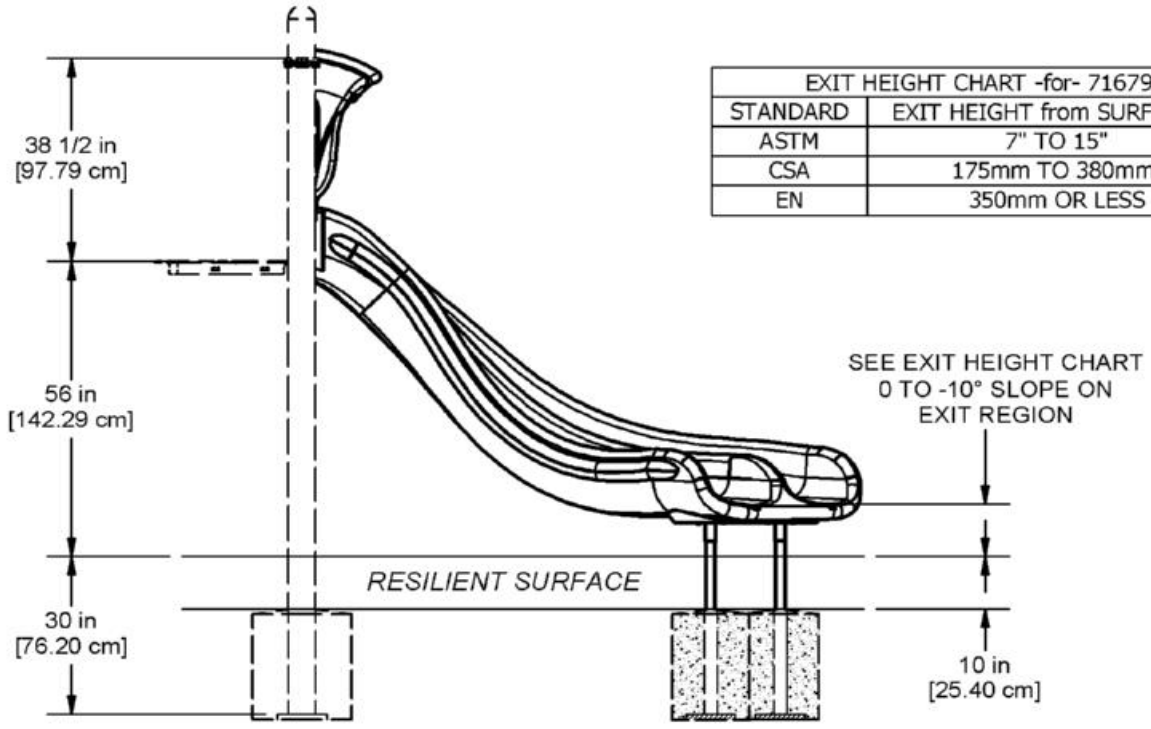
Issued/Revised: 7/10/2024

71679 DOUBLE CURVED VELOCITY



CONCRETE REQUIRED
0.132 CUBIC YARDS
0.100 [CUBIC METERS]

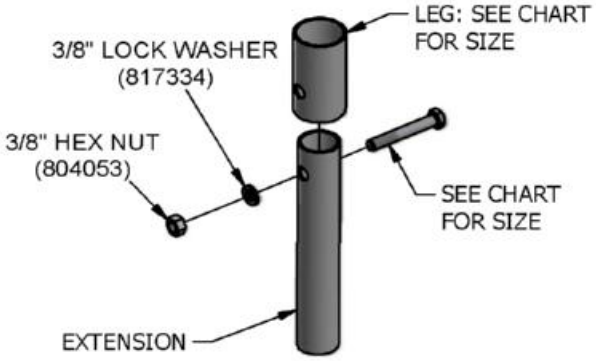
PLAN VIEW



EXIT HEIGHT CHART -for- 71679	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

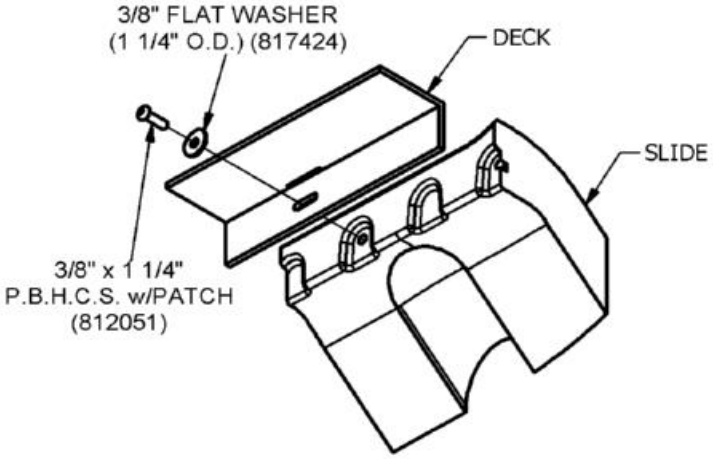
ELEVATION VIEW

71679 DOUBLE CURVED VELOCITY

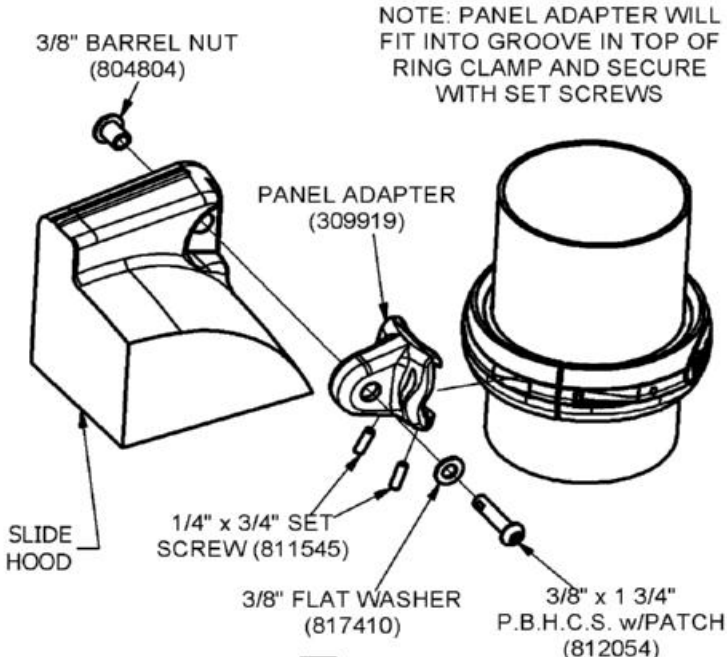


LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [6.0 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)

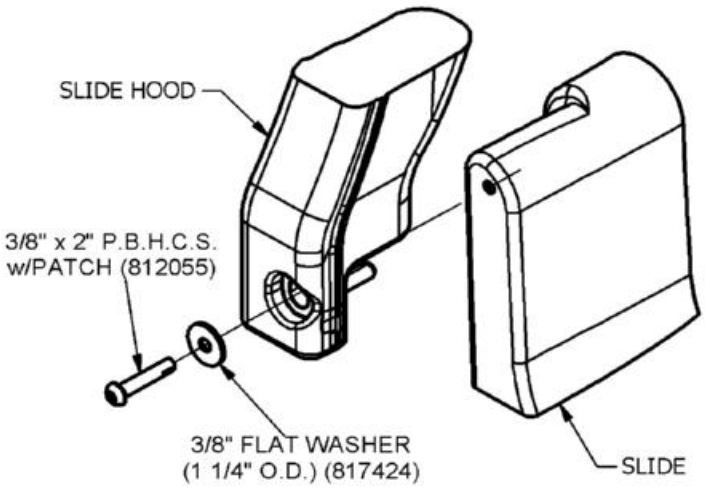
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136

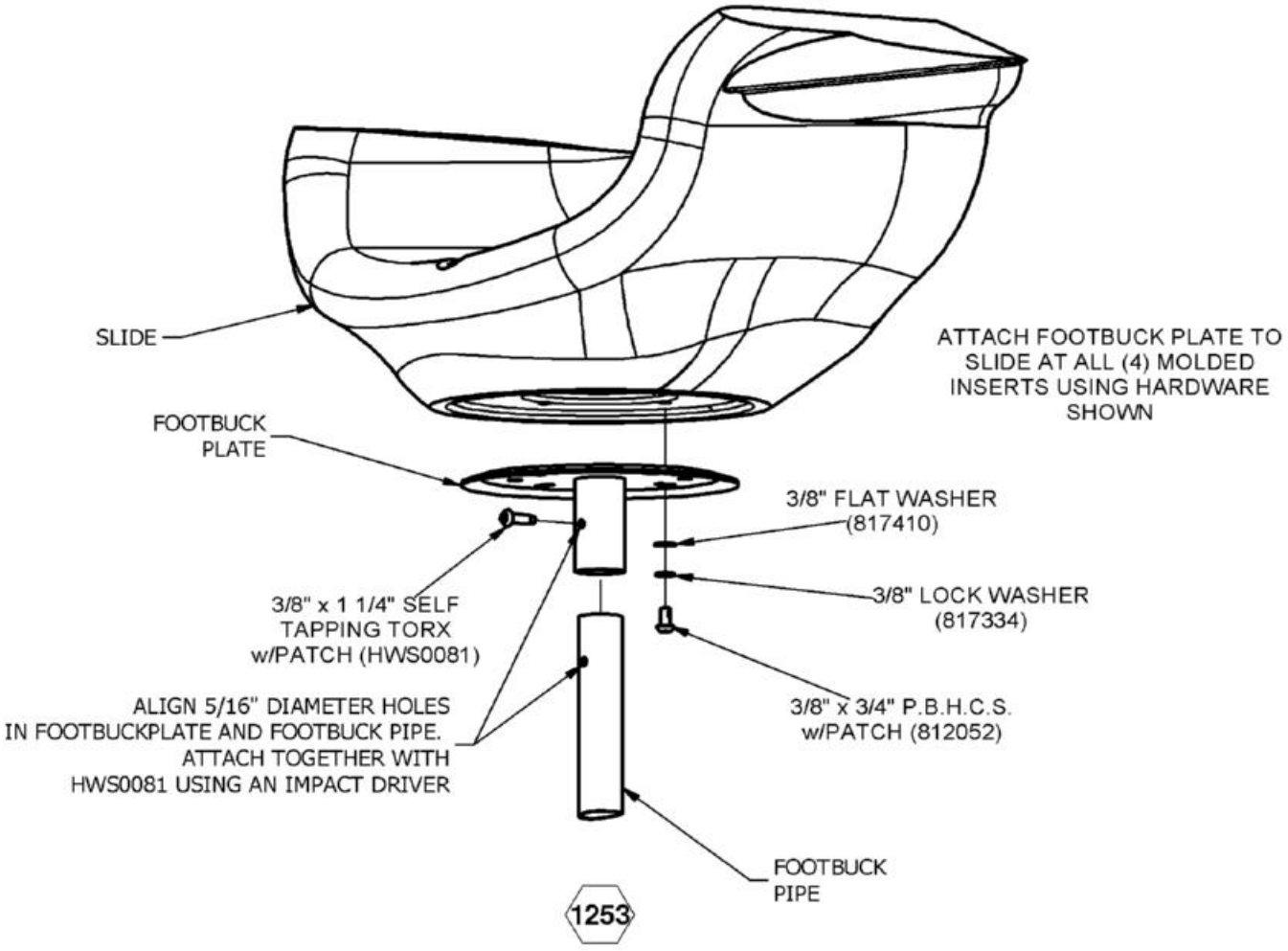


715



716

71679 DOUBLE CURVED VELOCITY



SuperMax Play Systems

71864 ORIGAMI BARRIER

Parts List		
DESCRIPTION	QTY	PART NUMBER
PIPE ADAPTER	2	309915
LOWER FILLER PANEL	1	314351
HARDWARE COMPLETE	1	314328
1/4" x 3/4" SET SCREW	4	811545
3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
3/8" LOCK WASHER	2	817334
3/8" FLAT WASHER	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
3/8" LOCK NUT	4	804353
3/8" BARREL NUT	2	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Origami Barrier, refer to your overhead drawing for location.

2. Attach Ring Clamps to Uprights. See Ring Clamp Installation sheet.

3. Attach Pipe Adapters to Lower Filler Panel using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.

4. Attach Lower Filler Panel with Pipe Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 448.

5. Attach bottom of Lower Filler Panel to Deck using 3/8" x 1" P.B.H.C.S w/Patch, 3/8" Flat Washer (1 1/4" O.D), and 3/8" Lock Nut. See Detail 318.

6. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

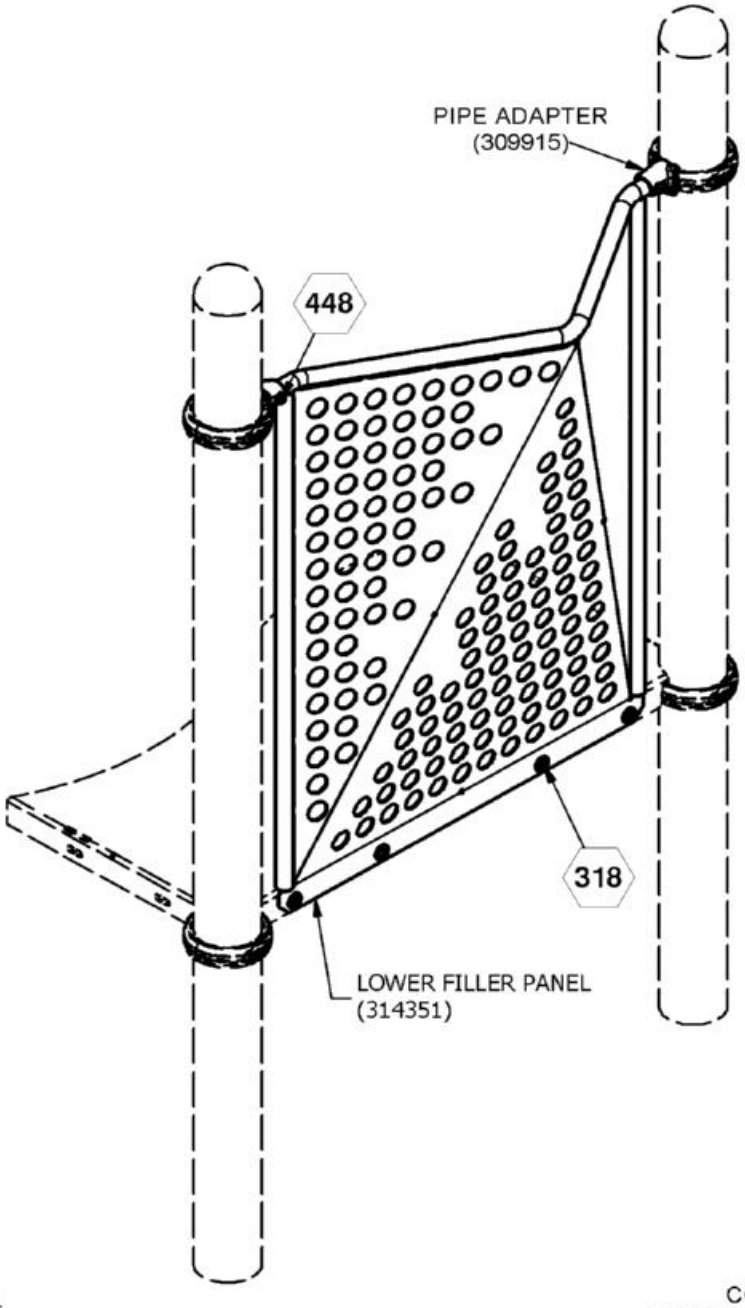
7. When the structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamp are not designed to support substantial weight without them.*** Alos eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

SuperMax Play Systems

71864 ORIGAMI BARRIER

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



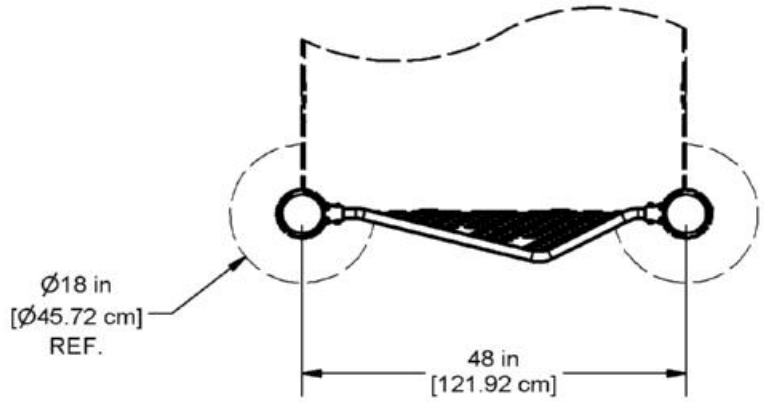
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

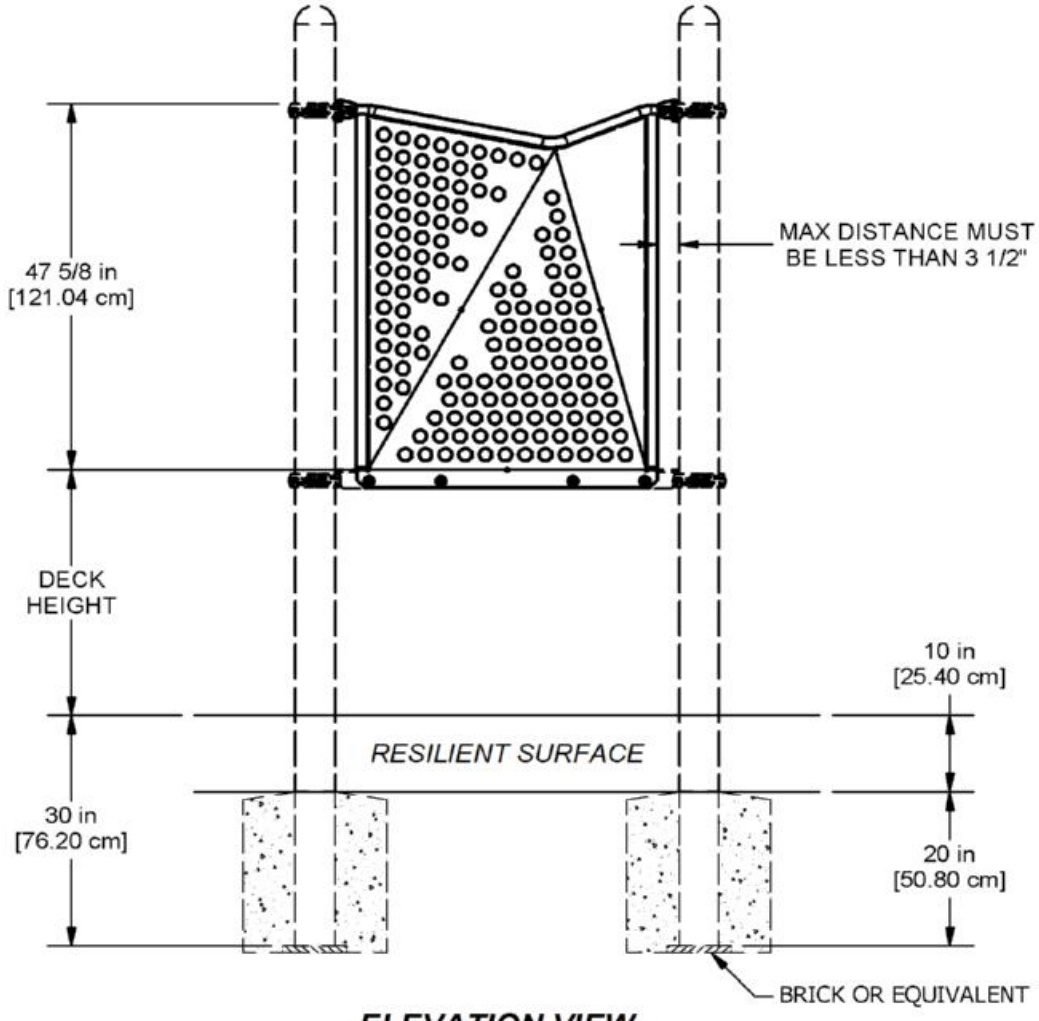
Issued/Revised: 12/13/2017

FINISHED ASSEMBLY

71864 ORIGAMI BARRIER

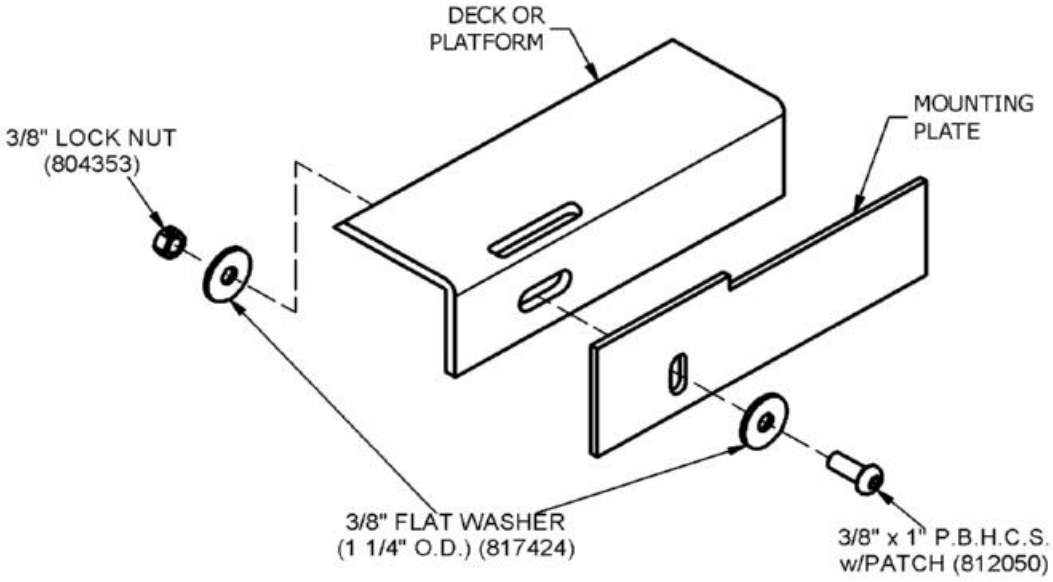


PLAN VIEW



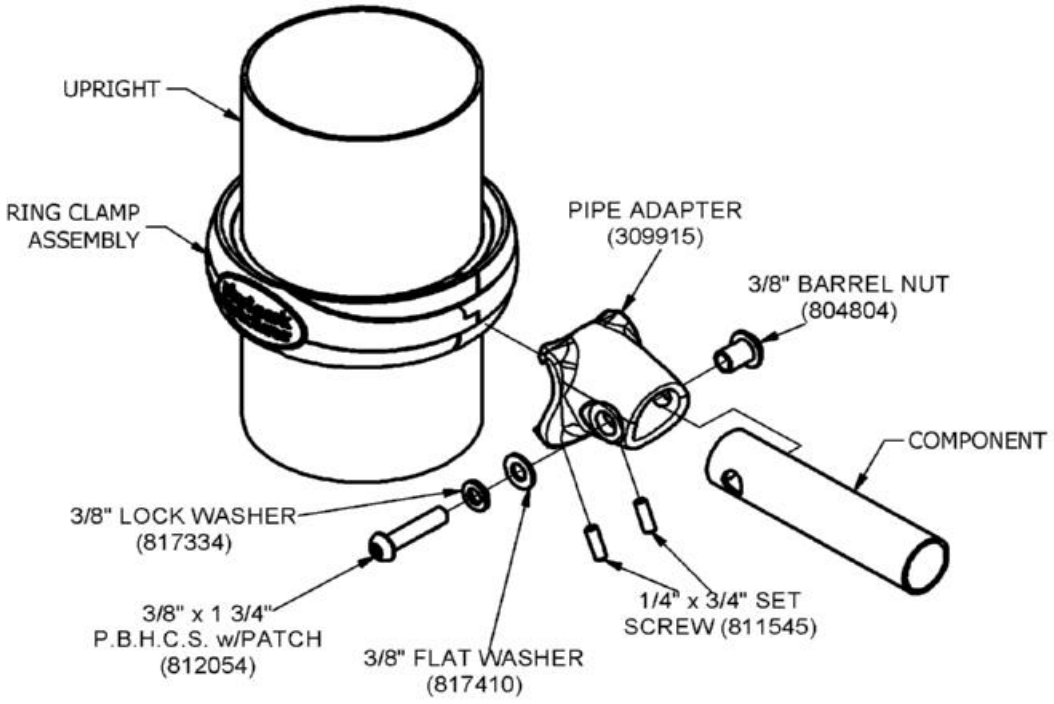
ELEVATION VIEW

71840 FACETED TWO PANELS WALL



318

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



448

Issued/Revised: 12/13/2017

SHEET 4 OF 4

71886 ORIGAMI CENTER ARCHWAY

Parts List		
DESCRIPTION	QTY	PART NUMBER
PIPE ADAPTER	2	309915
ORIGAMI ENTRYWAY METAL BARRIER ASS'Y	1	314781
HARDWARE COMPLETE	1	314800
1/4" x 3/4" SET SCREW	4	811545
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
3/8" LOCK WASHER	2	817334
3/8" FLAT WASHER	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
3/8" LOCK NUT	4	804353
3/8" BARREL NUT	2	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71886 ORIGAMI CENTER ARCHWAY

INSTALLATION INSTRUCTIONS:

1. Determine which openings receive Origami Center Archway. See Order Top View.

2. Attach Ring Clamps to Uprights. See Ring Clamp Installation Sheet.

3. Attach Pipe Adapter to Origami Entryway Metal Barrier Ass'y using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.

4. Attach Origami Entryway Metal Barrier Ass'y with Pipe Adapter to Ring Clamp using 1/4" x 3/4" Set Screws. See Detail 448.

5. Attach Origami Entryway Metal Barrier Ass'y to Deck using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Lock Nut. See Detail 318.

6. Plumb and level the entire assembly and tighten all fasteners.

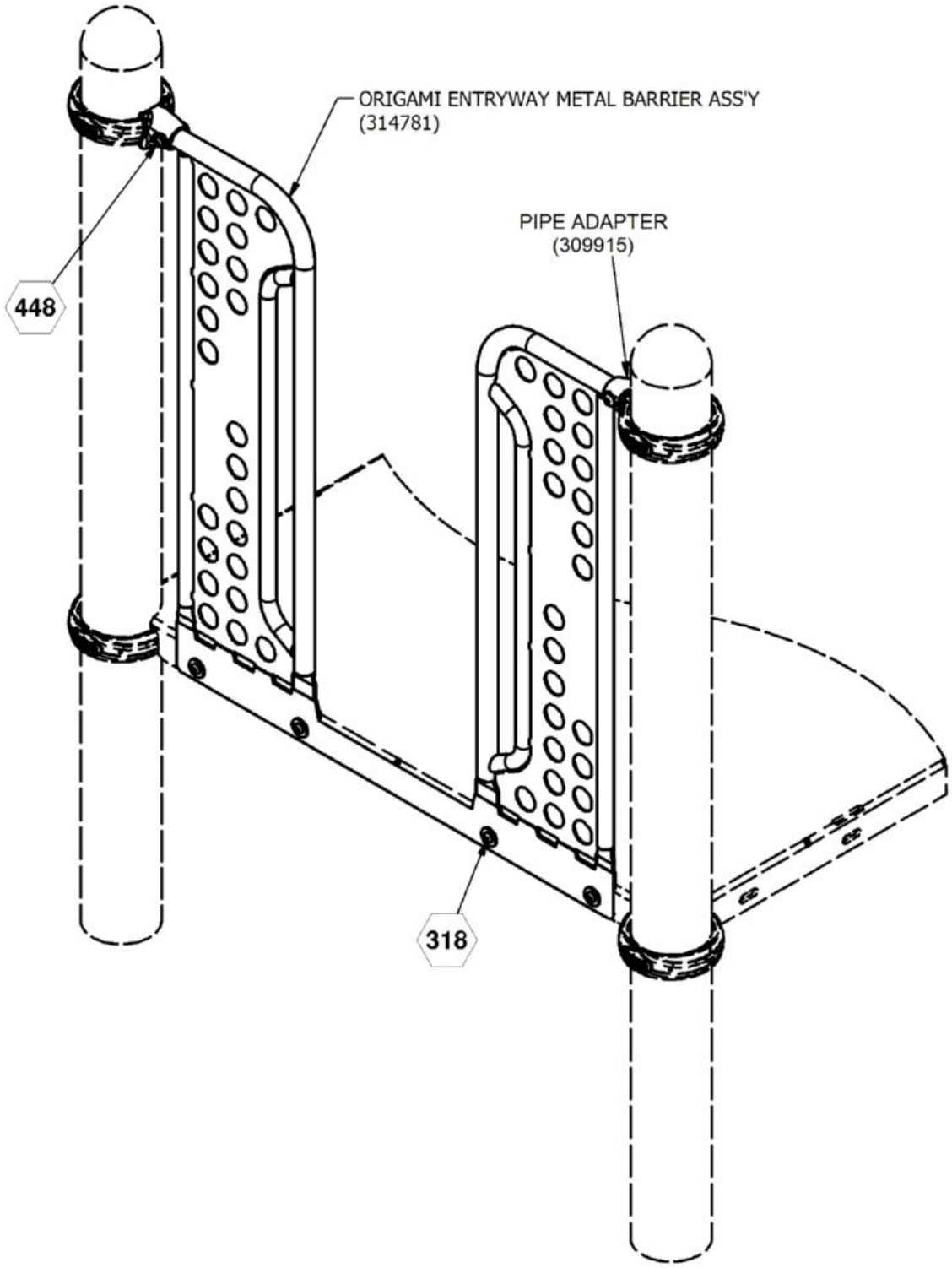
IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

7. When the structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71886 ORIGAMI CENTER ARCHWAY



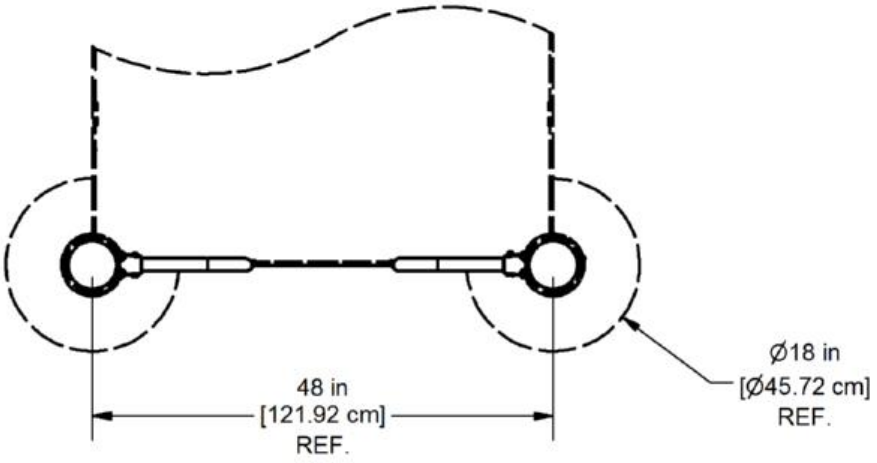
⬡ = INSTALLATION DETAIL

Issued/Revised: 8/1/2018

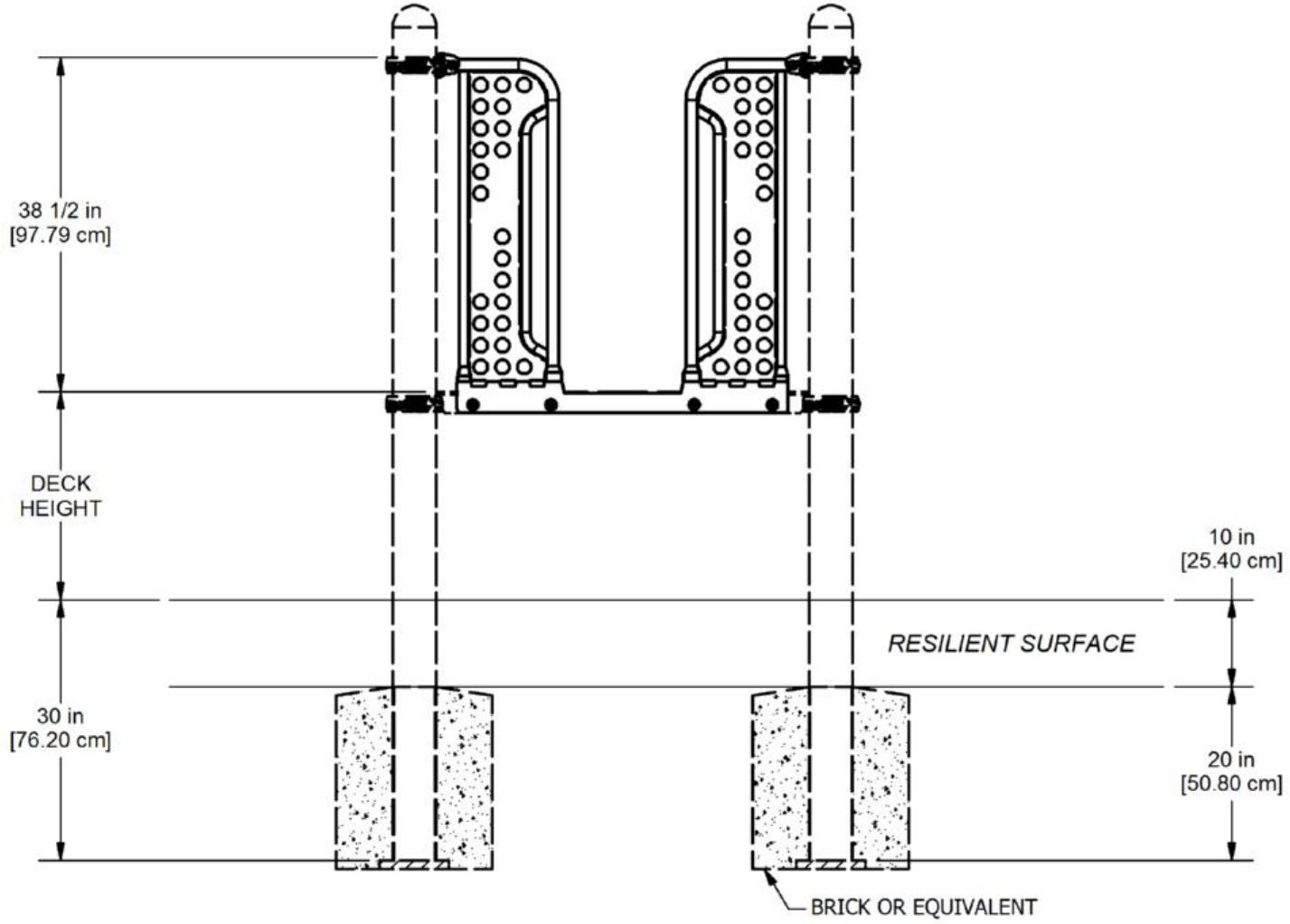
FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

71886 ORIGAMI CENTER ENTRYWAY

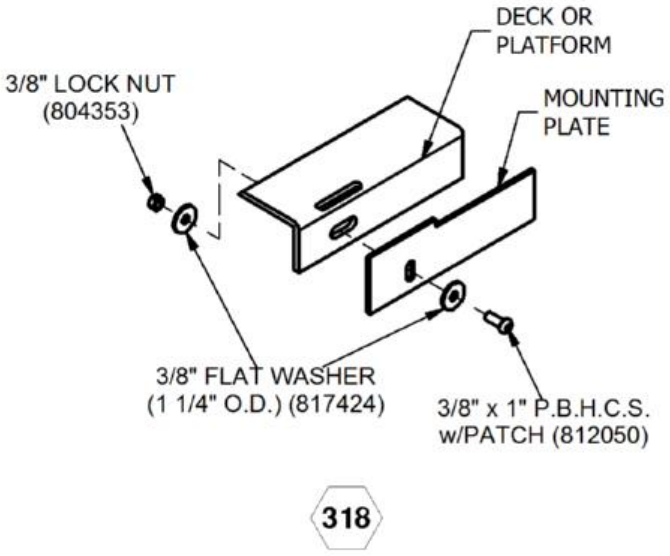


PLAN VIEW

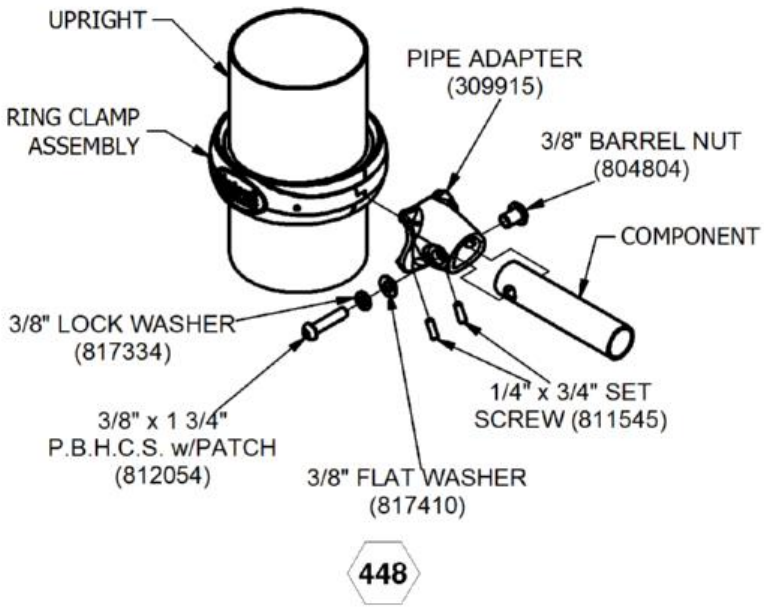


ELEVATION VIEW

71886 ORIGAMI CENTER ENTRYWAY



NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



71977 PARALLAX HUB

Parts List		
DESCRIPTION	QTY	PART NUMBER
STAINLESS CHAIN	6	177319
SMALL ROTO ASS'Y	3	315447
CENTER ROTO LARGE	1	315448
PARALLAX HUB NET	1	315681
HUB SPACER BAR	6	315694
HUB UPRIGHT WELDMENT A	3	315699
HUB UPRIGHT WELDMENT B	3	315703
ROTO HANGING BRACKET ASSY	3	315775
HARDWARE COMPLETE	1	315774
3/8" x 1" P.B.H.C.S. w/PATCH	12	812050
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	18	812054
3/8" FLAT WASHER	36	817410
3/8" PLASTIC SPACER	24	817613
3/8" LOCK WASHER	12	817334
3/8" BARREL NUT	12	804804
3/8" LOCK NUT	18	804353
D SHACKLE w/NO-SNAG PIN	12	161853
PLASTIC WASHER	36	304073
PLASTIC CAP	36	304074

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Dig footing holes at locations as shown in Footing Diagram. Refer to your overhead drawing and Upright Locations view for locations.

2. Attach Hub Spacer Bars to the Uprights. See Detail 1097.

3. Attach 71981 Triangulator Roof, 71982 Hex Stalk Topper, or 71983 Paragon Accent Shade to hub uprights. Refer to appropriate installation sheet.

4. Place the Roto Hanging Bracket Ass'y into the recess of the Center Roto Large so the bracket is through the holes. See Detail 1143.

5. Attach Center Roto Large and Roto Hanging Bracket Ass'y to Hub Upright Weldments A & B. See Details 790 and 1143.

6. Attach Lunar Climbers (71988 or 71989) to all three sides of Large Roto Climber and Hub Uprights. Refer to appropriate installation sheet. Refer to order top view for correct orientation.

7. Attach Parallax Hub Net to Hub Upright Weldments A & B. See Detail 1096.

8. Locate the Small Roto Ass'ys and attach Plastic Caps. See Detail 354. Ensure Spin Welds face up. See Rotomold View.

9. Attach Small Roto Ass'y to Parallax Rope Camp Net 4 and Hub Upright Weldments A & B. See Detail 1096.

71977 PARALLAX HUB

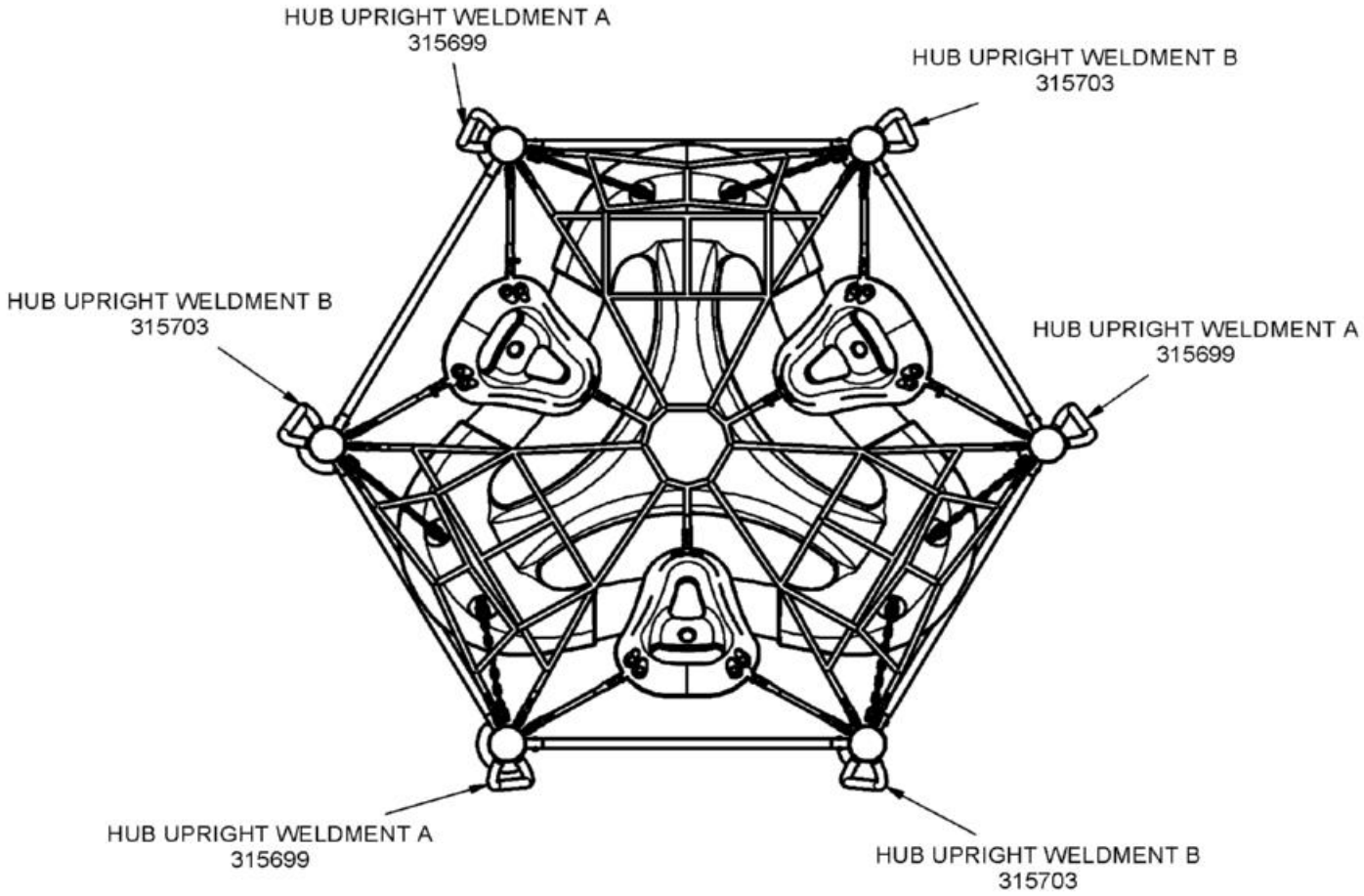
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

10. Plumb and level the entire assembly and tighten all fasteners.

11. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

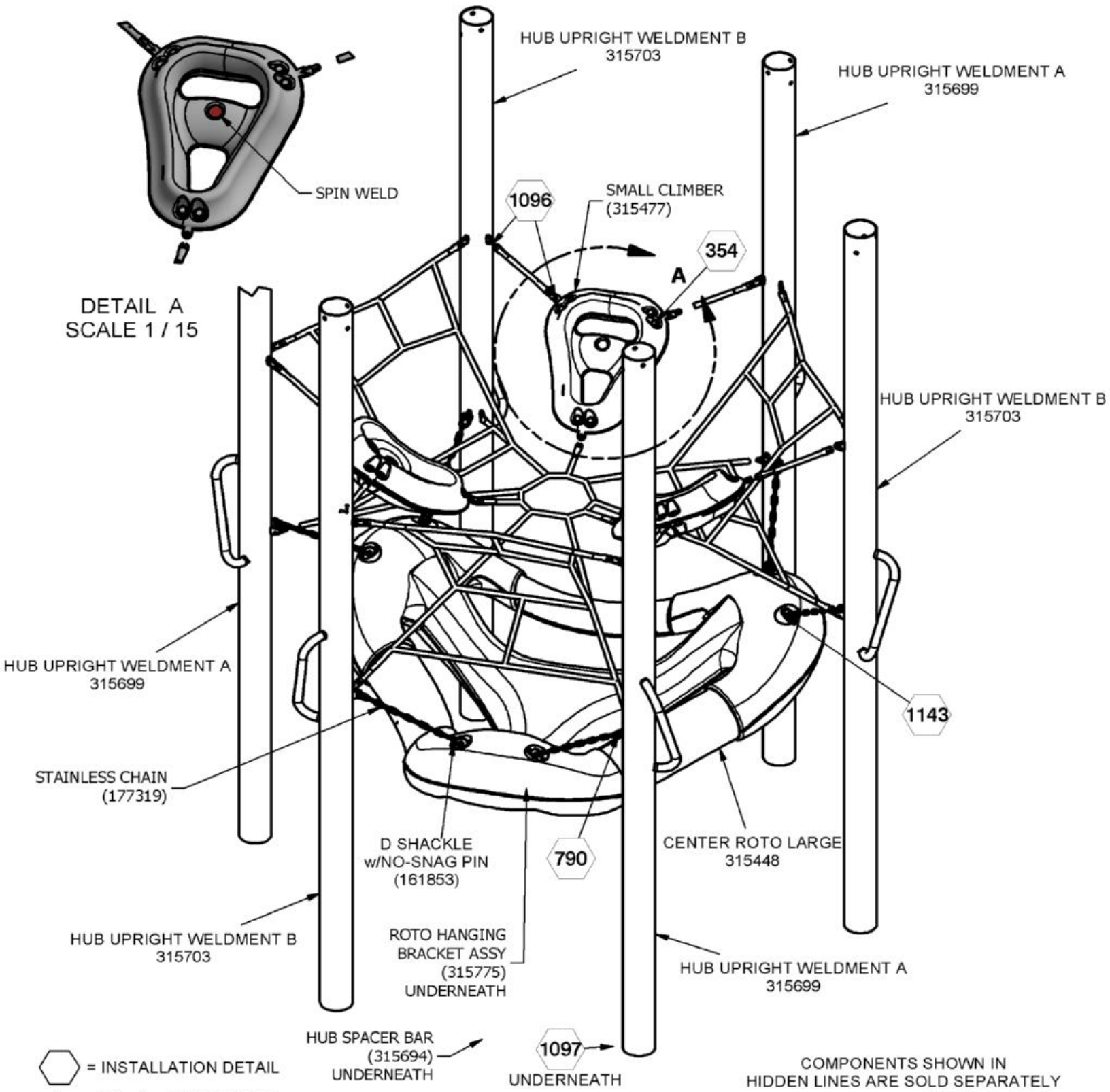
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



UPRIGHT LOCATIONS

SuperMax Play Systems

71977 PARALLAX HUB



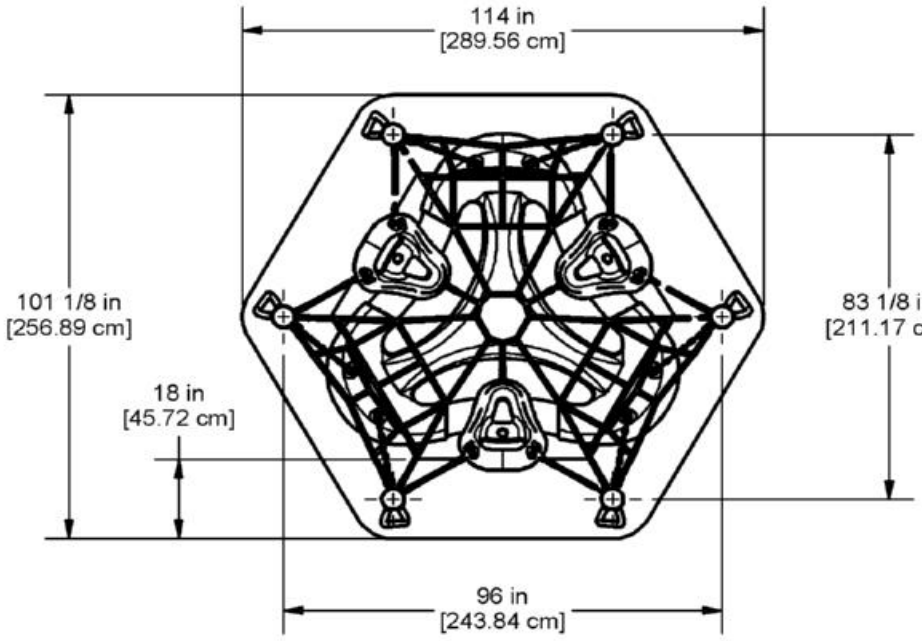
= INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 9/21/2022

FINISHED ASSEMBLY

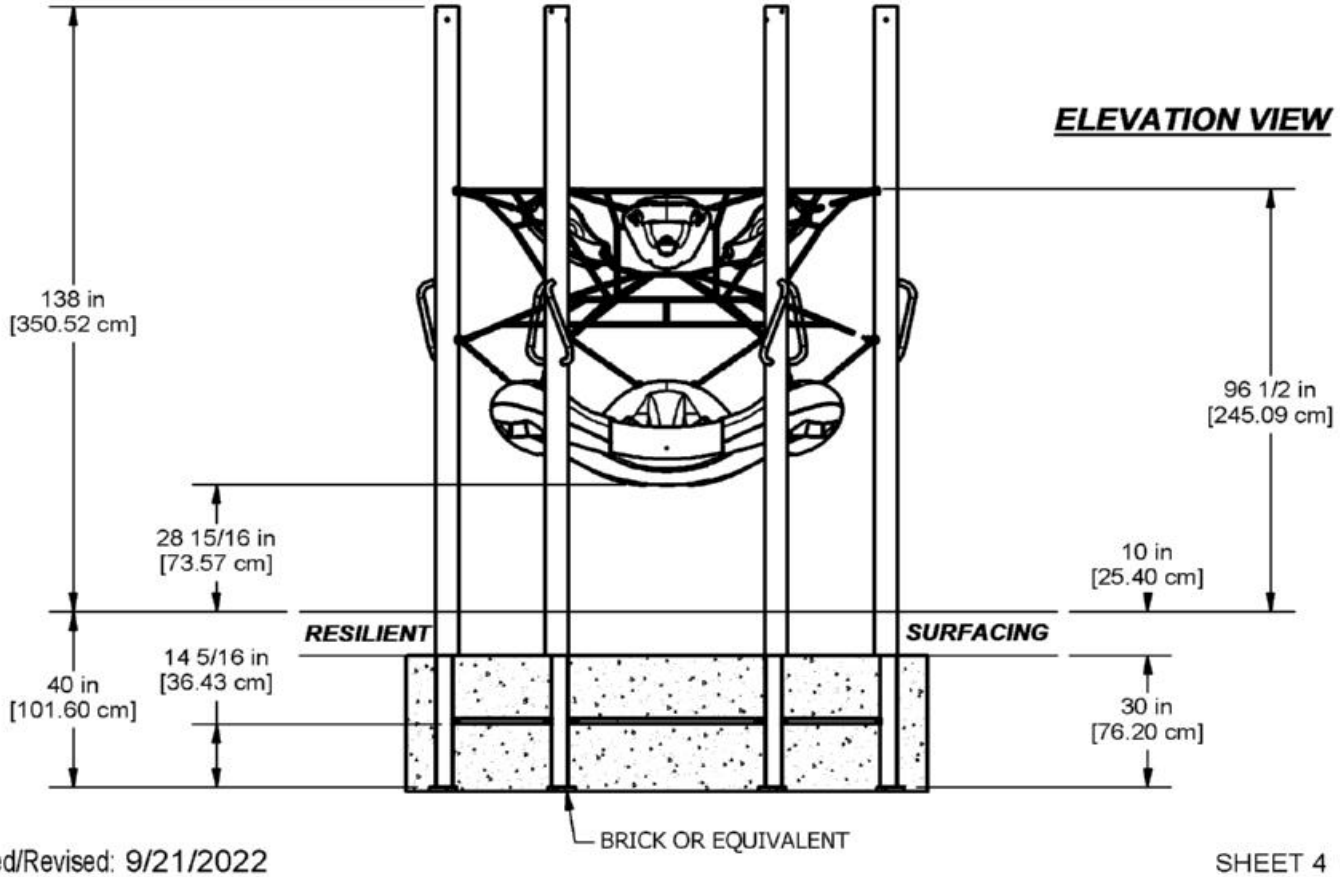
71977 PARALLAX HUB



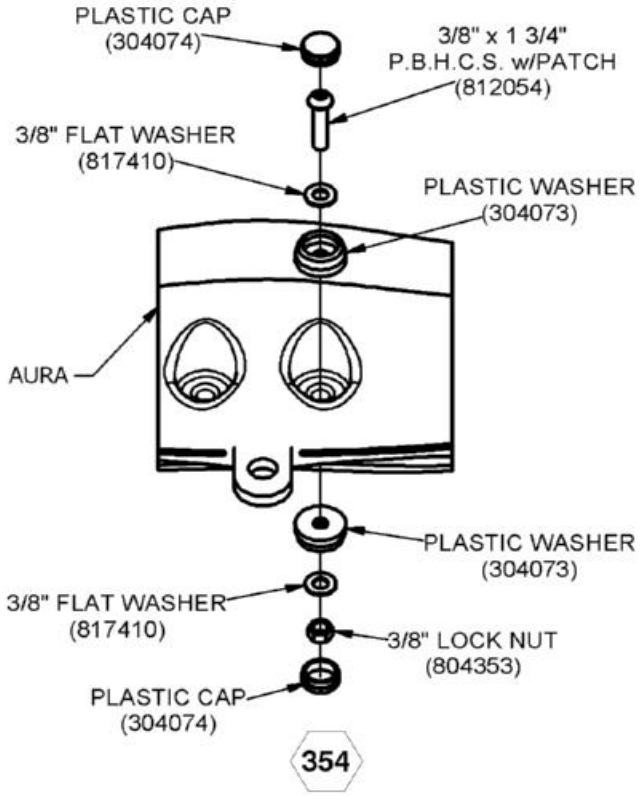
PLAN VIEW

CONCRETE REQUIRED
3.444 CUBIC YARDS
2.634 [CUBIC METERS]

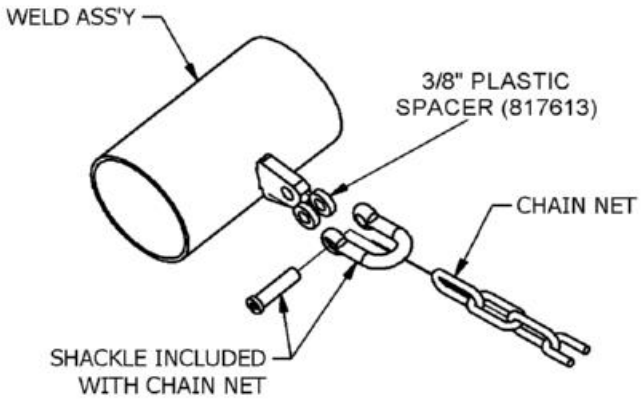
ELEVATION VIEW



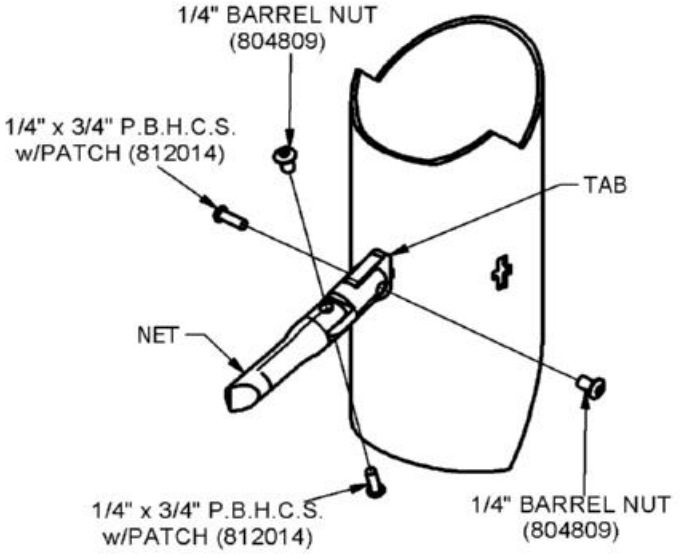
71977 PARALLAX HUB



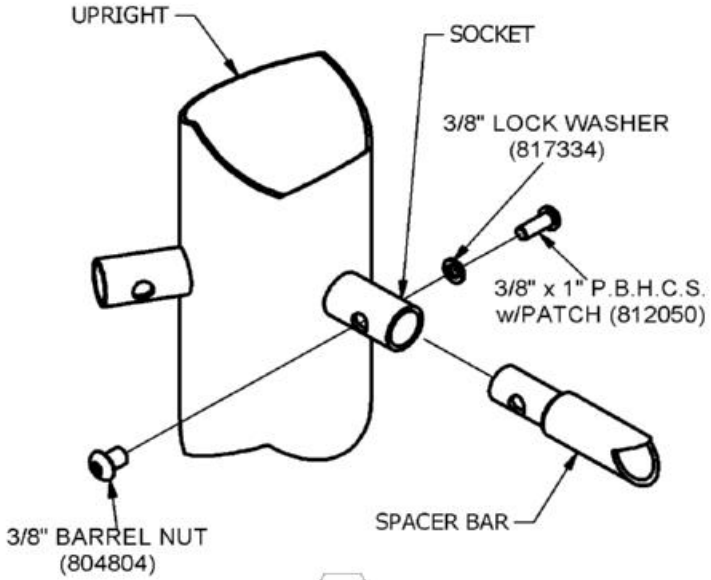
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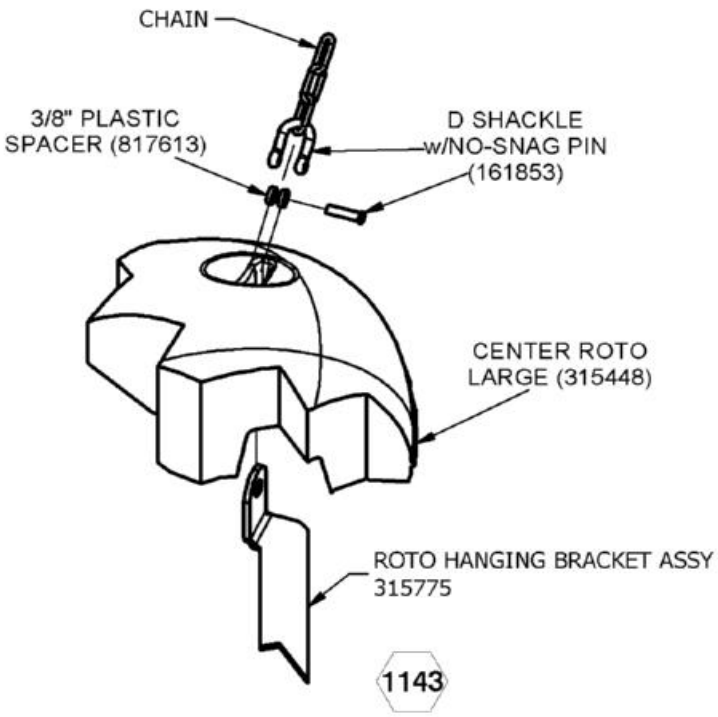


1096



1097

71977 PARALLAX HUB



71981 TRIANGULATOR ROOF

Parts List		
DESCRIPTION	QTY	PART NUMBER
FORMED INFILL	1	315690
FORMED INFILL TOP	1	315692
SHORT DOUBLE EXTENSION WELDMENT	1	315709
SHORT SINGLE EXTENSION WELDMENT LEFT	1	315716
SHORT SINGLE EXTENSION WELDMENT	1	315720
TALL DOUBLE EXTENSION WELDMENT	1	315725
TALL SINGLE EXTENSION WELDMENT	1	315732
TALL SINGLE EXTENSION WELDMENT LEFT	1	315735
ROLLED HEX TOPPER	4	315750
HARDWARE COMPLETE	1	315751
#10 x 1" SELF-TAPPING SCREW	24	809608
1/4" FLAT WASHER (5/8" O.D.)	24	817408
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051
3/8" LOCK WASHER	2	817334
3/8" FLAT WASHER	2	817410
1/2" x 5 1/2" B.H.C.S.	20	811071
1/2" LOCKWASHER	20	817342
1/2" HEX NUT	20	804055
O-RING	14	169362

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Refer to the overhead drawing to locate the six posts, which will recieve the Parallax Roof. All six posts must be at the same height, with a minimum of 84" clearance over any deck below. As posts are not included in this package, they must be installed per seperate instructions prior to installing this roof.

2. Determine which posts is to receive which extensions. Reference the Finished Assembly view.

3. Attach Tall Double Extension Weldment, Short Single Extension Weldment, and Short Single Extension Weldment Left to Uprights. Refer to Top View for location. See Detail 865.

4. Connect Extensions using Rolled Hex Topper. See Detail 1092.

5. Attach Formed Infill to Tall Double Extension Weldment. See Detail 1093.

6. Bend Formed Infill to match the curve of the Rolled Hex Toppers. Screw Formed Infill into place. See Detail 1094.

7. Attach Formed Infill to Short Double Extension Weldment. See Detail 1093.

8. Bend Formed Infill to match the curve of the Rolled Hex Toppers. Screw Formed Infill into place. See Detail 1094.

71981 TRIANGULATOR ROOF

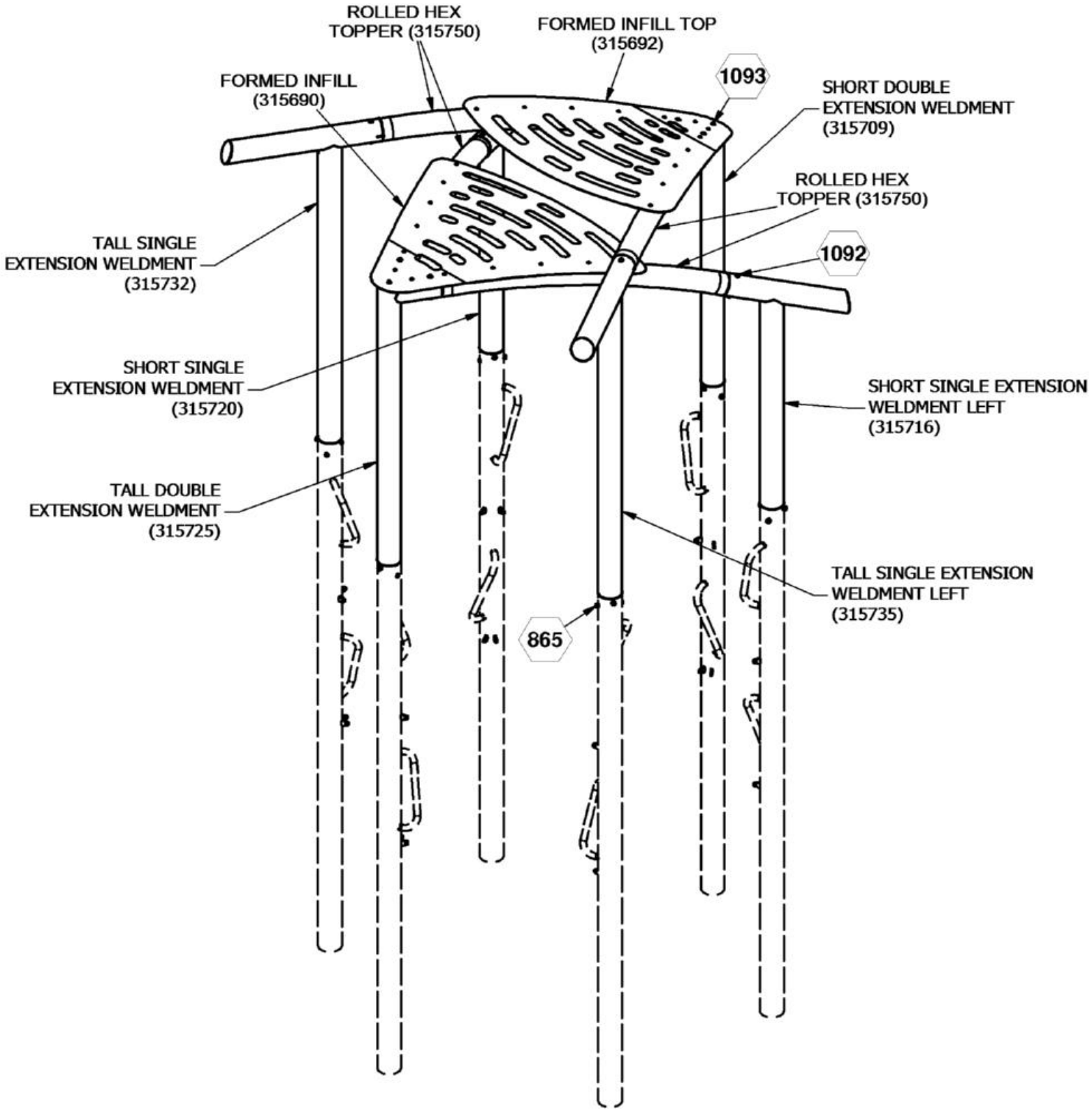
9. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71981 TRIANGULATOR ROOF



⬡ = INSTALLATION DETAIL

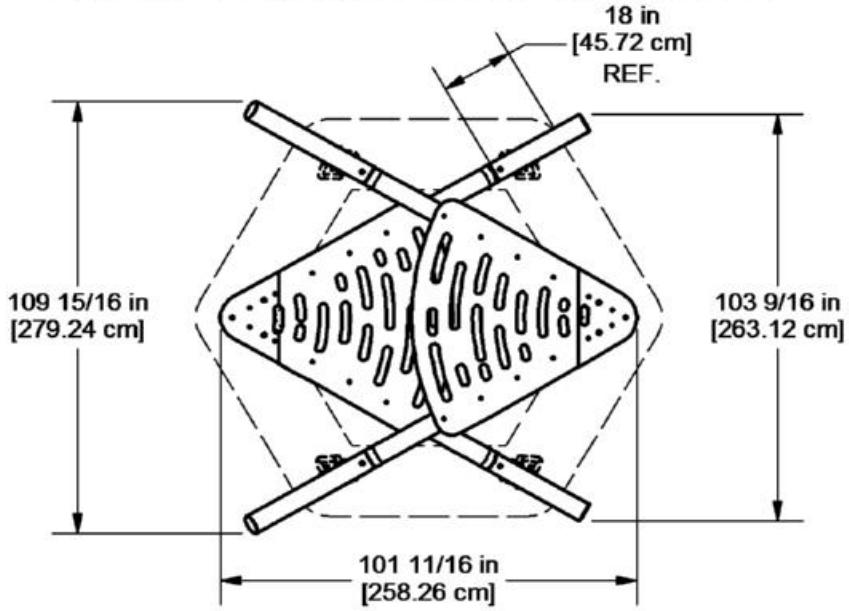
Issued/Revised: 7/27/2022

FINISHED ASSEMBLY

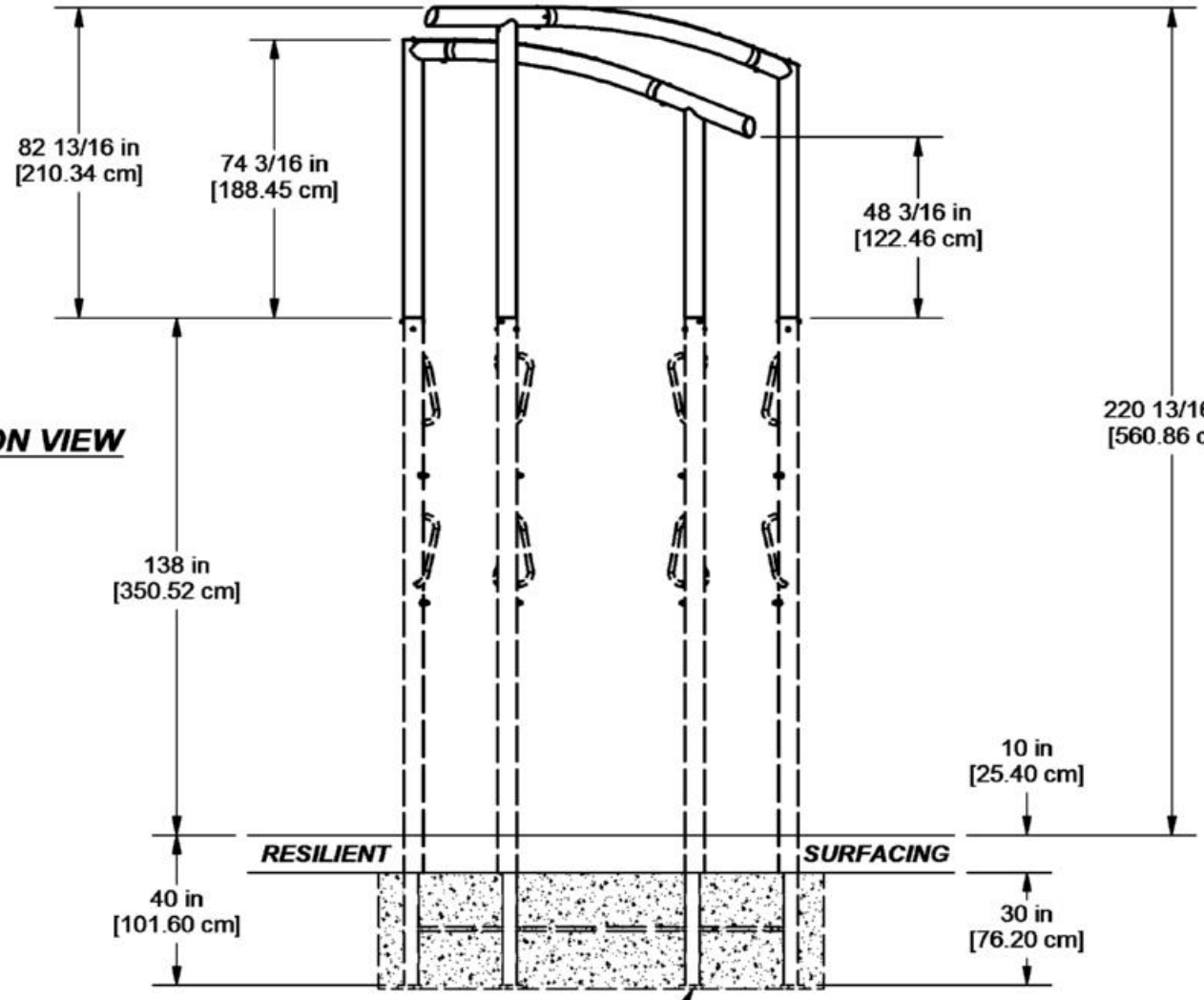
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

71981 TRIANGULATOR ROOF

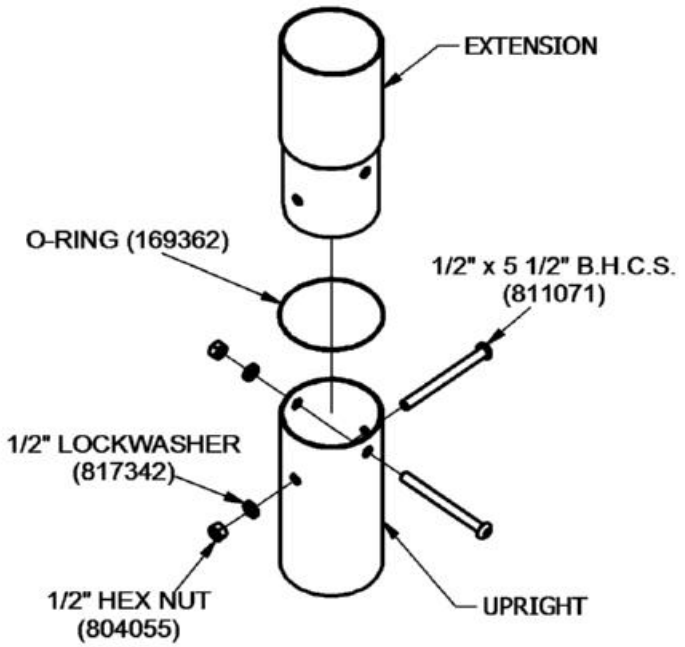
PLAN VIEW



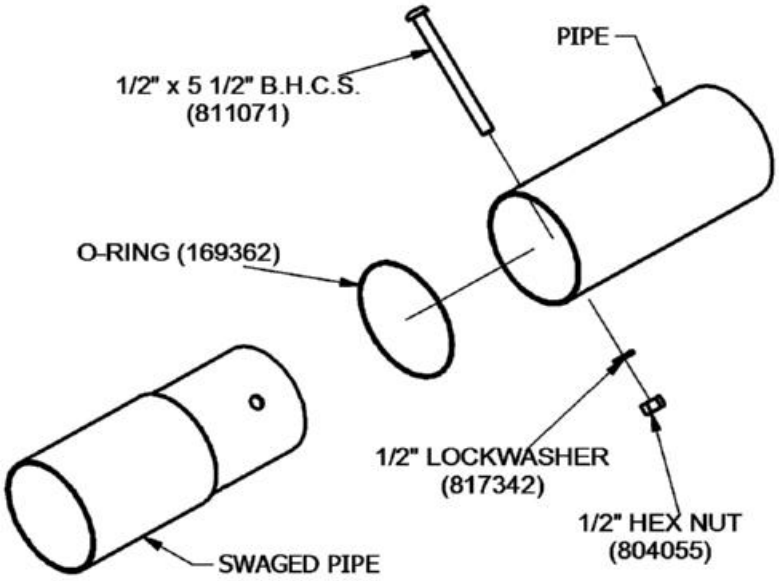
ELEVATION VIEW



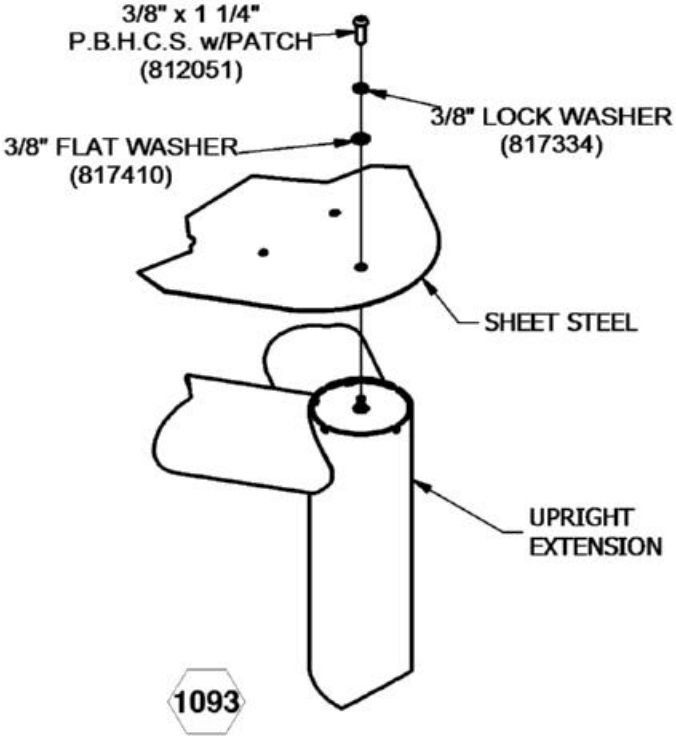
71981 TRIANGULATOR ROOF



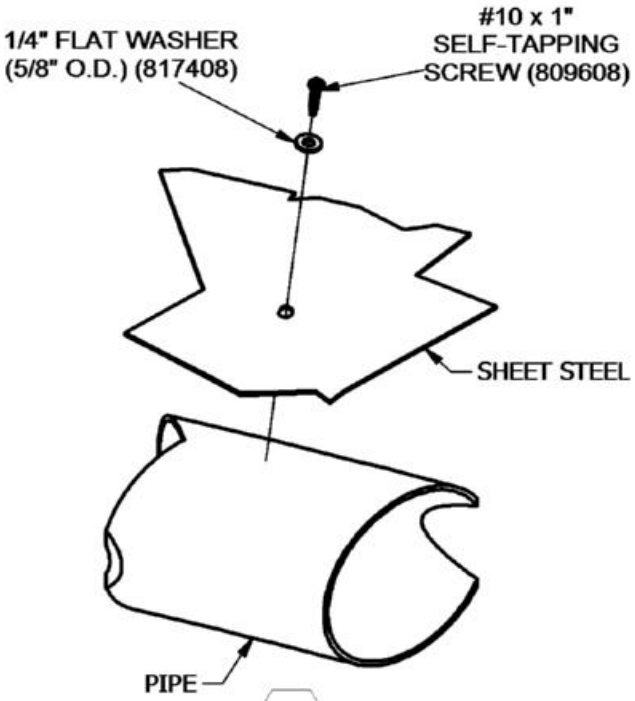
865



1092



1093



1094

71988 LUNAR CLIMBER (SHORT)

Parts List		
DESCRIPTION	QTY	PART NUMBER
PIPE ADAPTER	2	309915
RUNG	1	310102
LUNAR CONVEYOR BELT (SHORT)	1	315593
4' FOOTHOLD A	4	315623
4' FOOTHOLD B	4	315624
CLAMP PLATE	1	315787
HARDWARE COMPLETE	1	315788
1/4" x 3/4" SET SCREW	4	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	16	812052
3/8" x 1" P.B.H.C.S. w/PATCH	6	812050
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
3/8" FLAT WASHER	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	25	817424
3/8" LOCK WASHER	18	817334
3/8" BARREL NUT	18	804804
3/8" ACORN NUT	3	804002

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Lunar Climber (Short). Refer to order top view.

2. Attach Rung to Hub Uprights. See Detail 448.

3. Attach 4' Foothold A and 4' Foothold B parts to the Center Conveyor Belt Climber. See Finished Assembly view and Detail 1083.

4. Attach the Center Conveyor Belt Climber to the Center Roto Large with the Hub Rolled Clamp Plate. See Detail 1098.

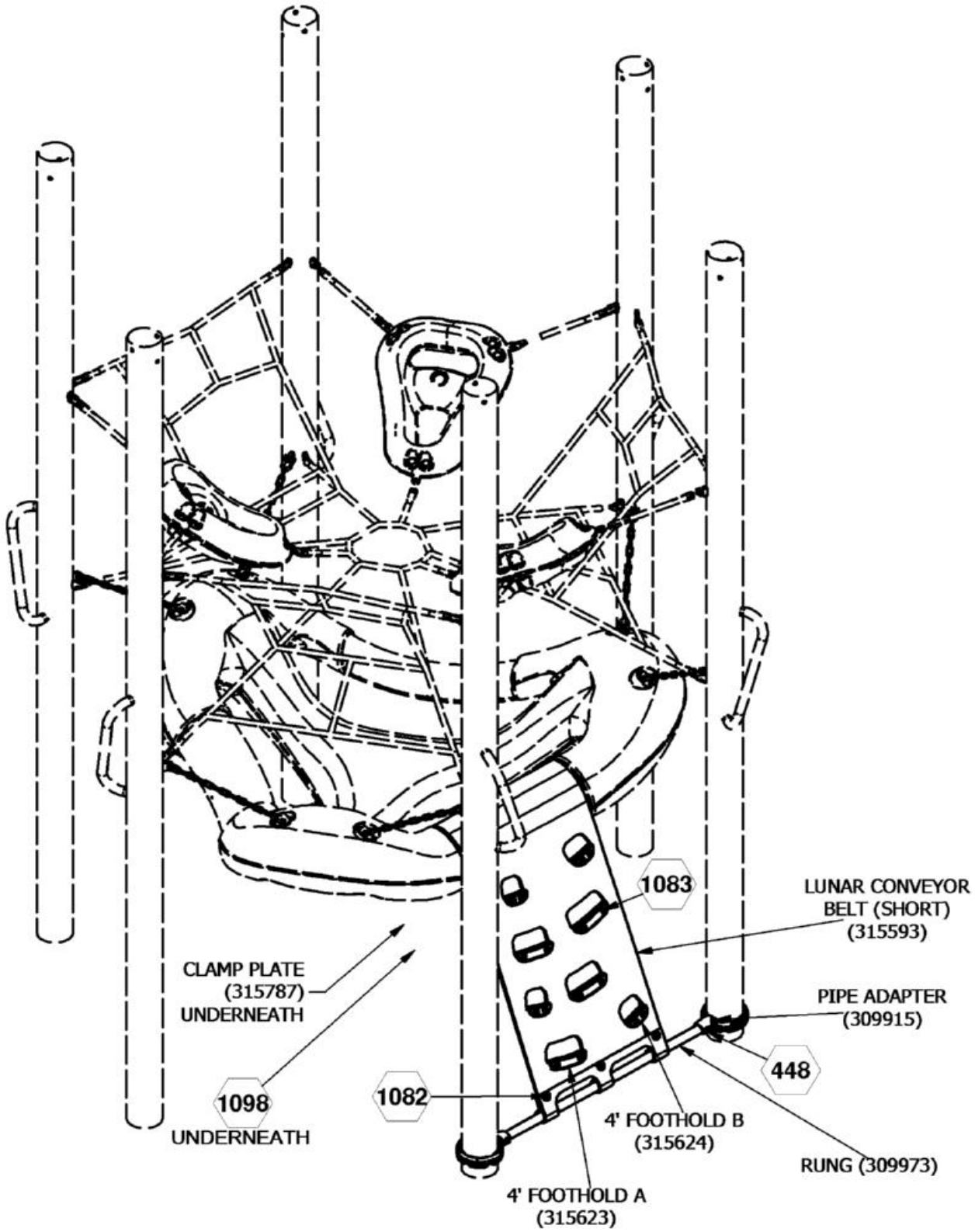
5. Attach the Center Conveyor Belt Climber to Rung. See Detail 1082.

6. Plumb and level the entire assembly and tighten all fasteners.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71988 LUNAR CLIMBER (SHORT)



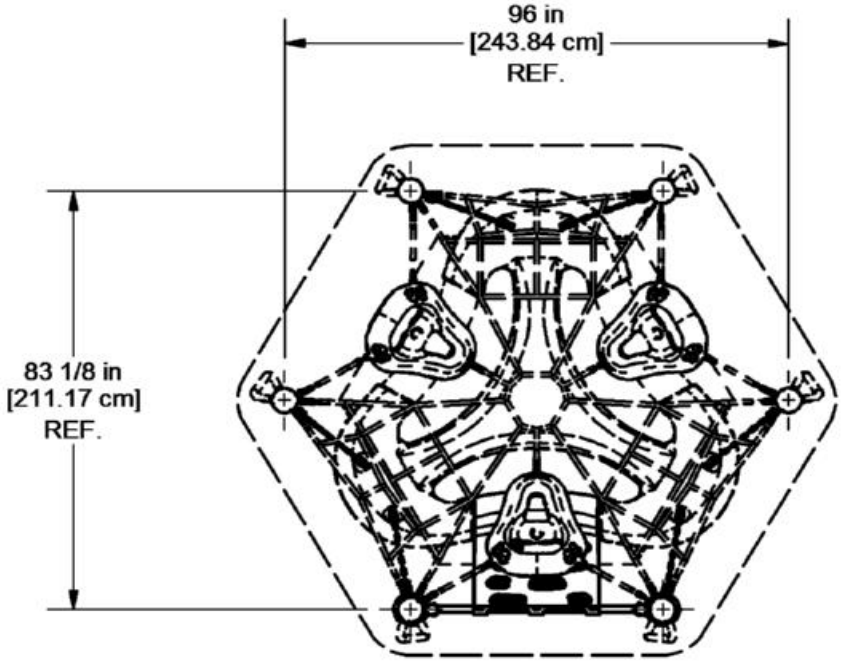
⬡ = INSTALLATION DETAIL

Issued/Revised: 10/4/2022

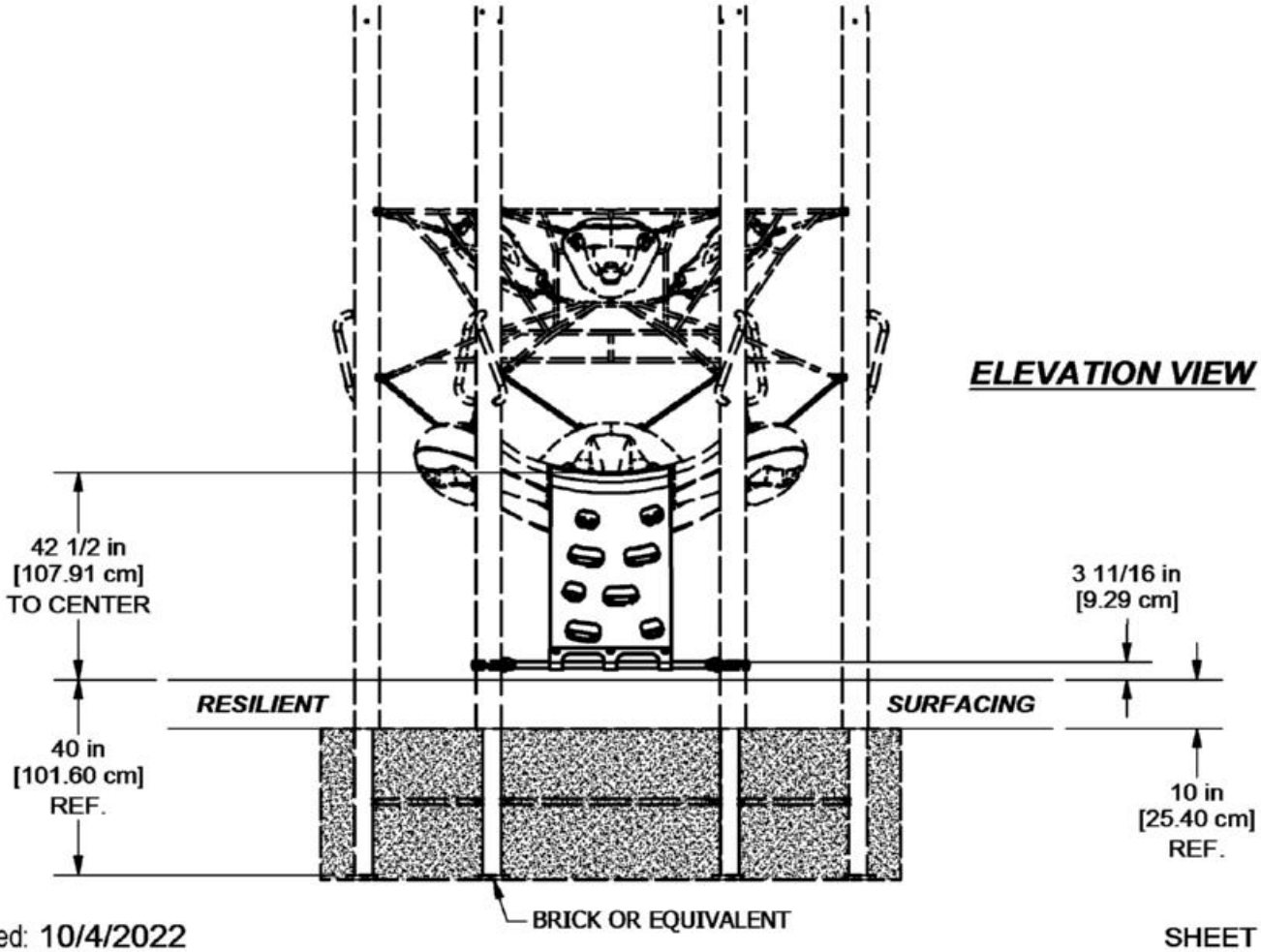
FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

71988 LUNAR CLIMBER (SHORT)

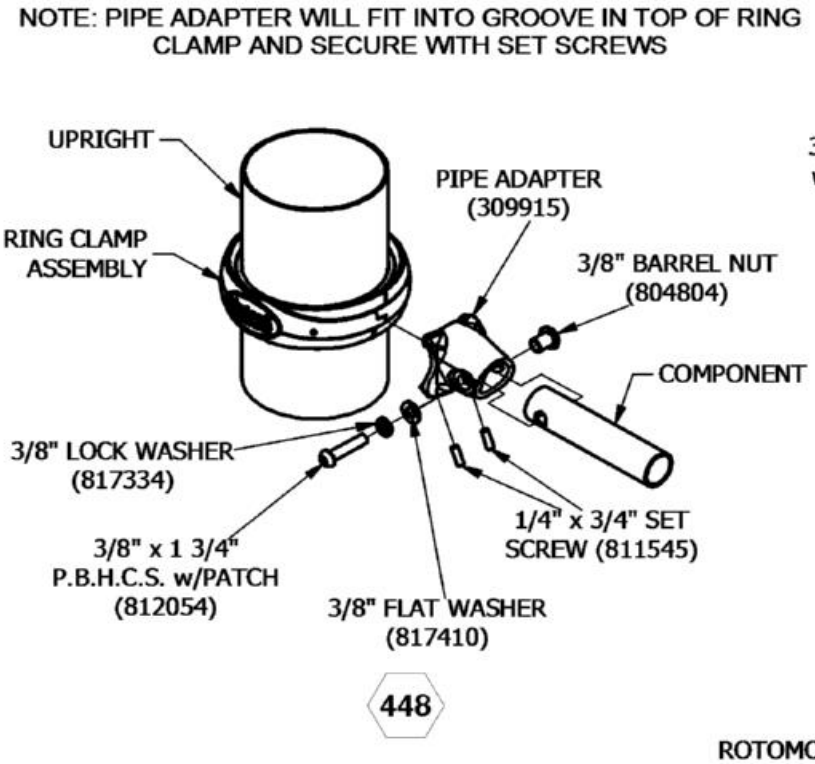


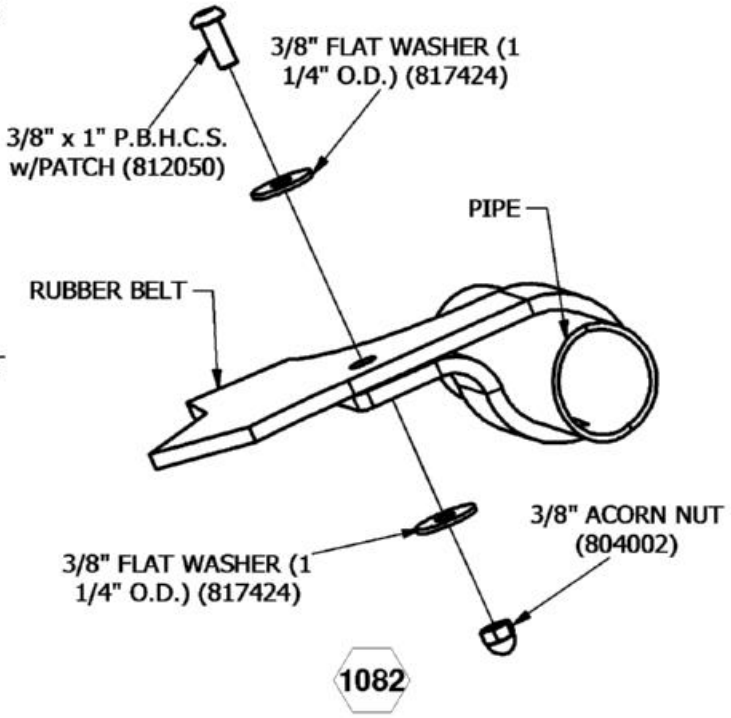
PLAN VIEW

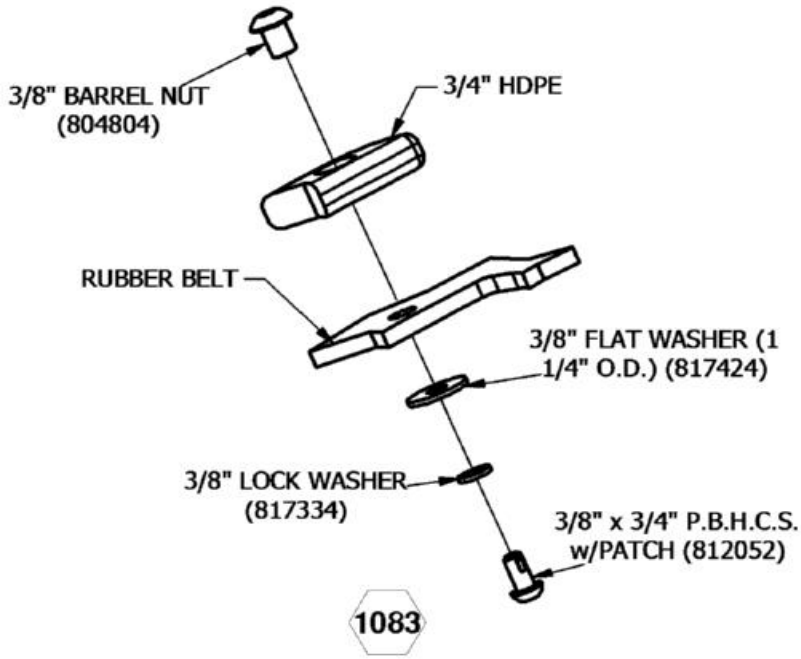


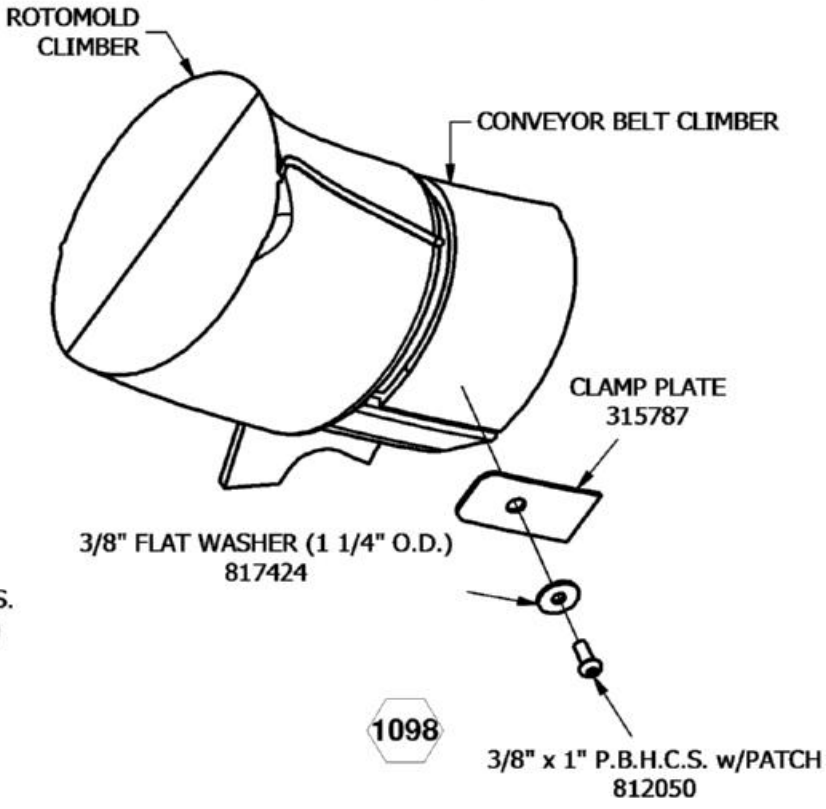
ELEVATION VIEW

71988 LUNAR CLIMBER (SHORT)









71992 SINGLE PARALLAX CASTING

Parts List		
DESCRIPTION	QTY	PART NUMBER
CONNECTOR CASTING A	1	315744
CONNECTOR CASTING B	1	315745
HARDWARE COMPLETE	1	315742
1/4" x 1" DRIVE RIVET	1	805302
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	1	812058
3/8" FLAT WASHER	2	817410
3/8" LOCK WASHER	3	817334
3/8" BARREL NUT	1	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Single Parallax Casting. Refer to Order Top View for locations.

2. Attach Single Parallax Casting to upright. See Detail 1090.

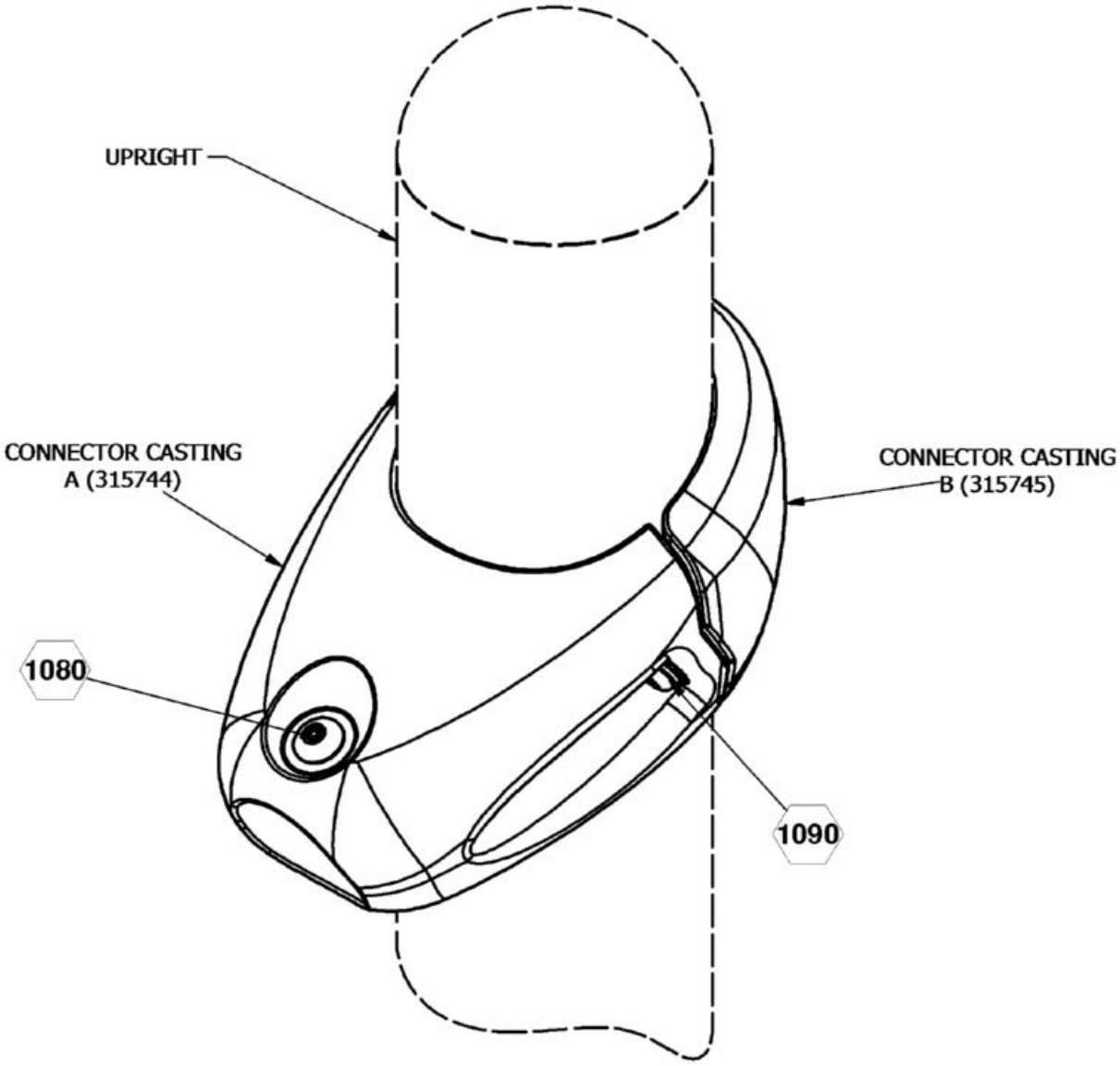
3. Attach required Parallax Leg or climbing element to Single Parallax Casting. See Detail 1080.

4. Plumb and level the entire assembly and tighten all fasteners.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71992 SINGLE PARALLAX CASTING



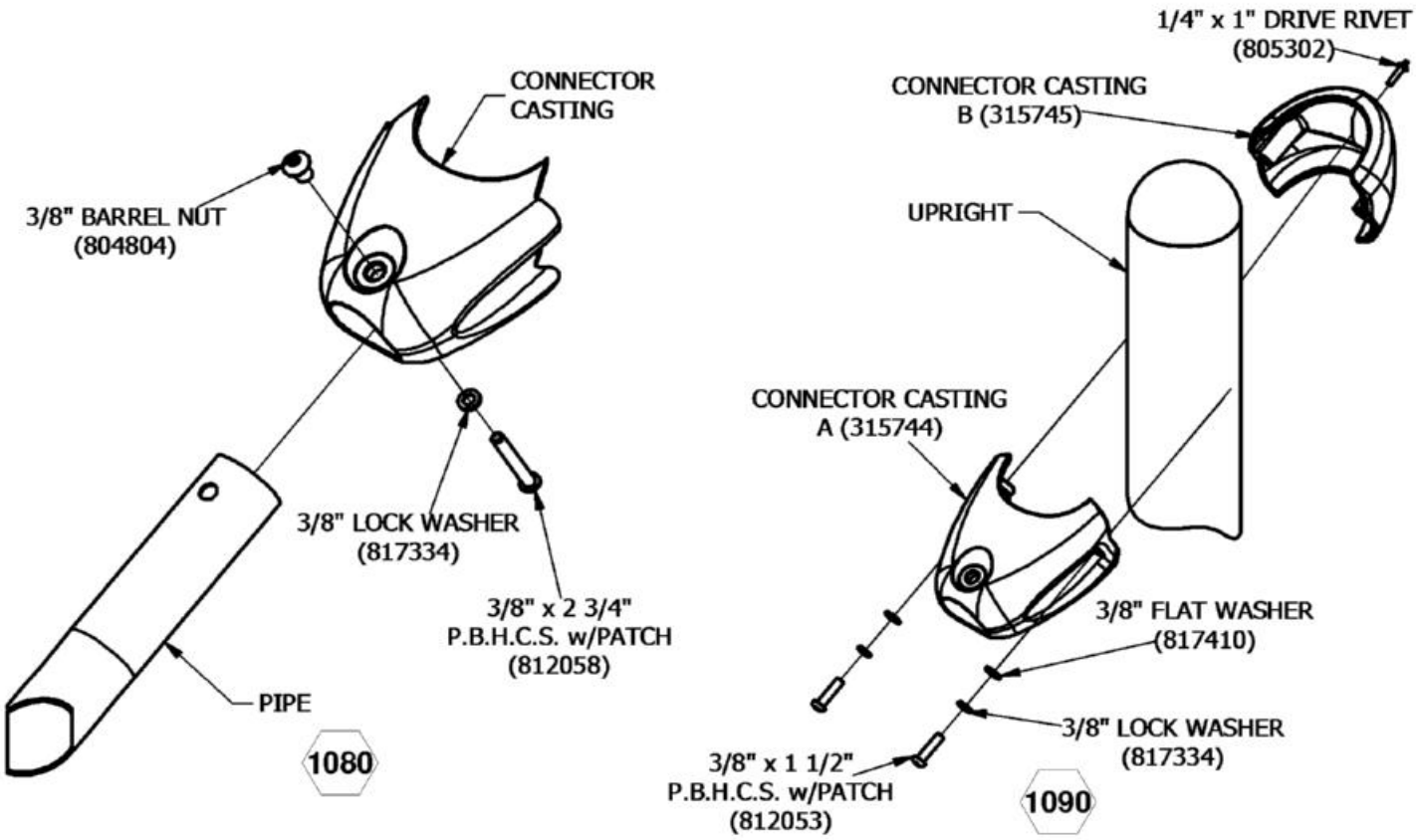
= INSTALLATION DETAIL

Issued/Revised: 6/8/2021

FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

71992 SINGLE PARALLAX CASTING



72025 4'-8" & 5'-4" DOUBLE BEND CLIMBER

Parts List		
DESCRIPTION	72025	PART NUMBER
RING HALF CLAMP	4	309913
4'-8" DOUBLE BEND CLIMBER WELDMENT	1	316071
HARDWARE COMPLETE	1	316080
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	10	812051
3/8" FLAT WASHER (1 1/4" O.D.)	20	817424
3/8" HEAVY HEX NUT	8	804200
3/8" LOCK NUT	2	804353

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*
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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Double Bend Climber. Refer to order ground view.

2. Connect the 4'-8" Double Bend Climber to the deck. See Detail 461.

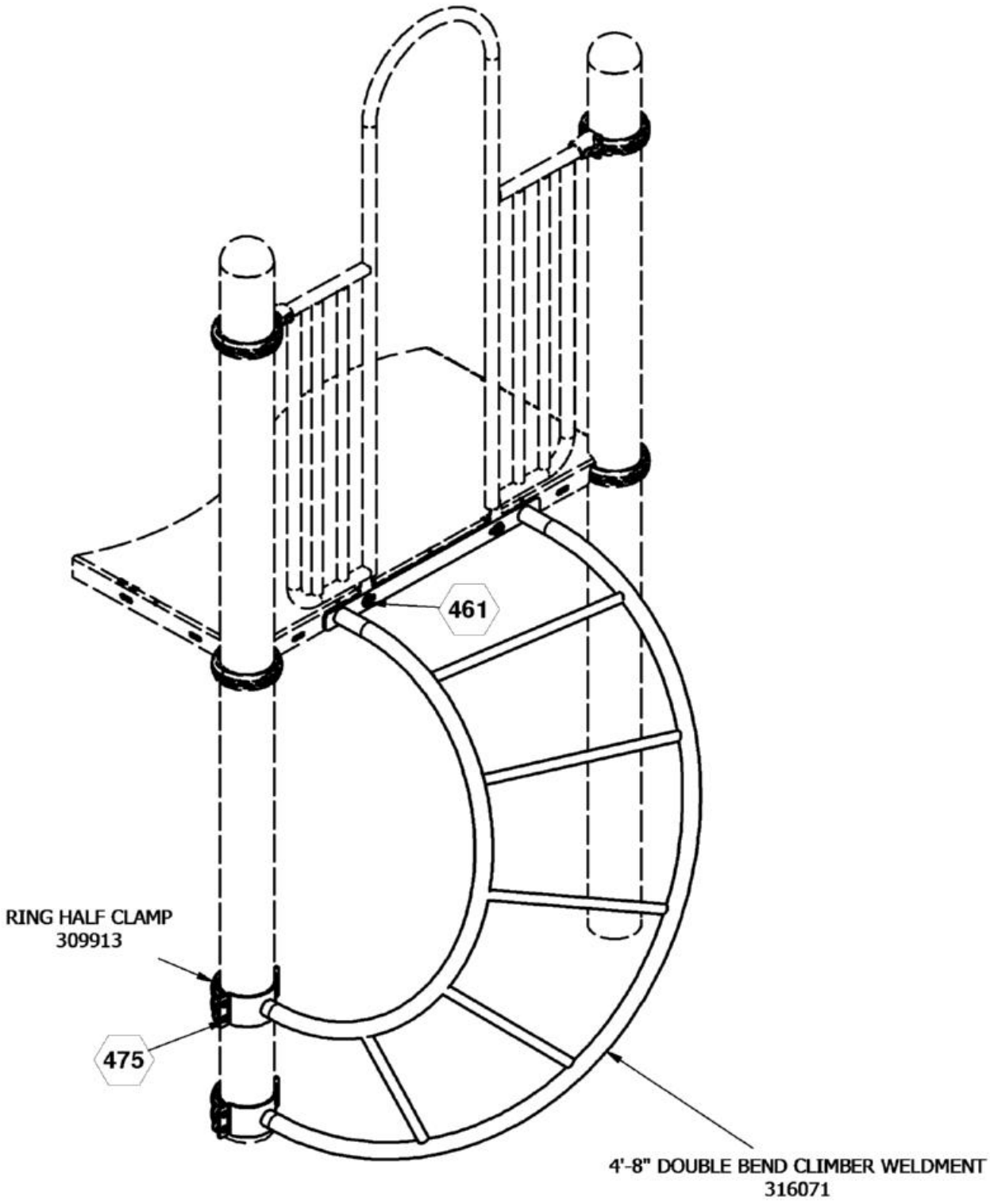
3. Connect the 4'-8" Double Bend Climber to the left upright. See Detail 475.

4. Plumb and level the entire assembly and tighten all fasteners.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

72025 DOUBLE BEND CLIMBER



⬡ = INSTALLATION DETAIL

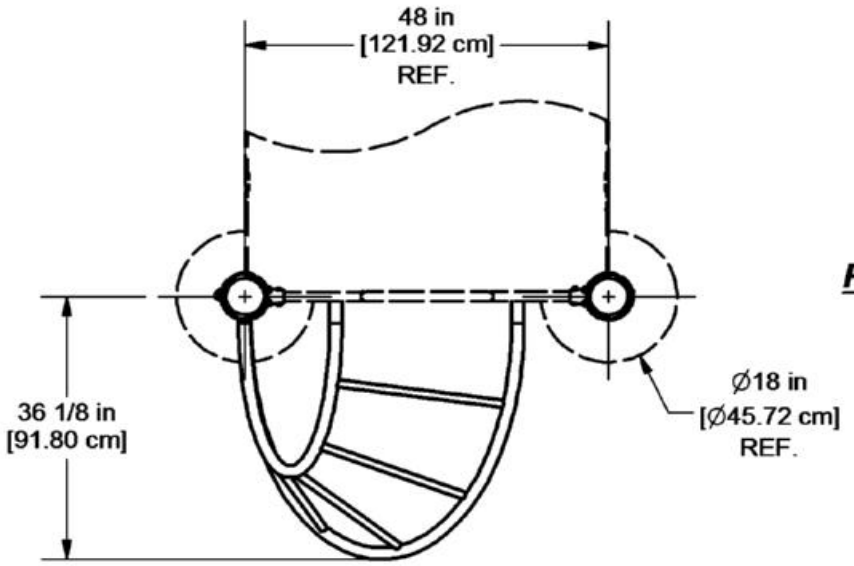
Issued/Revised: 9/7/2022

FINISHED ASSEMBLY

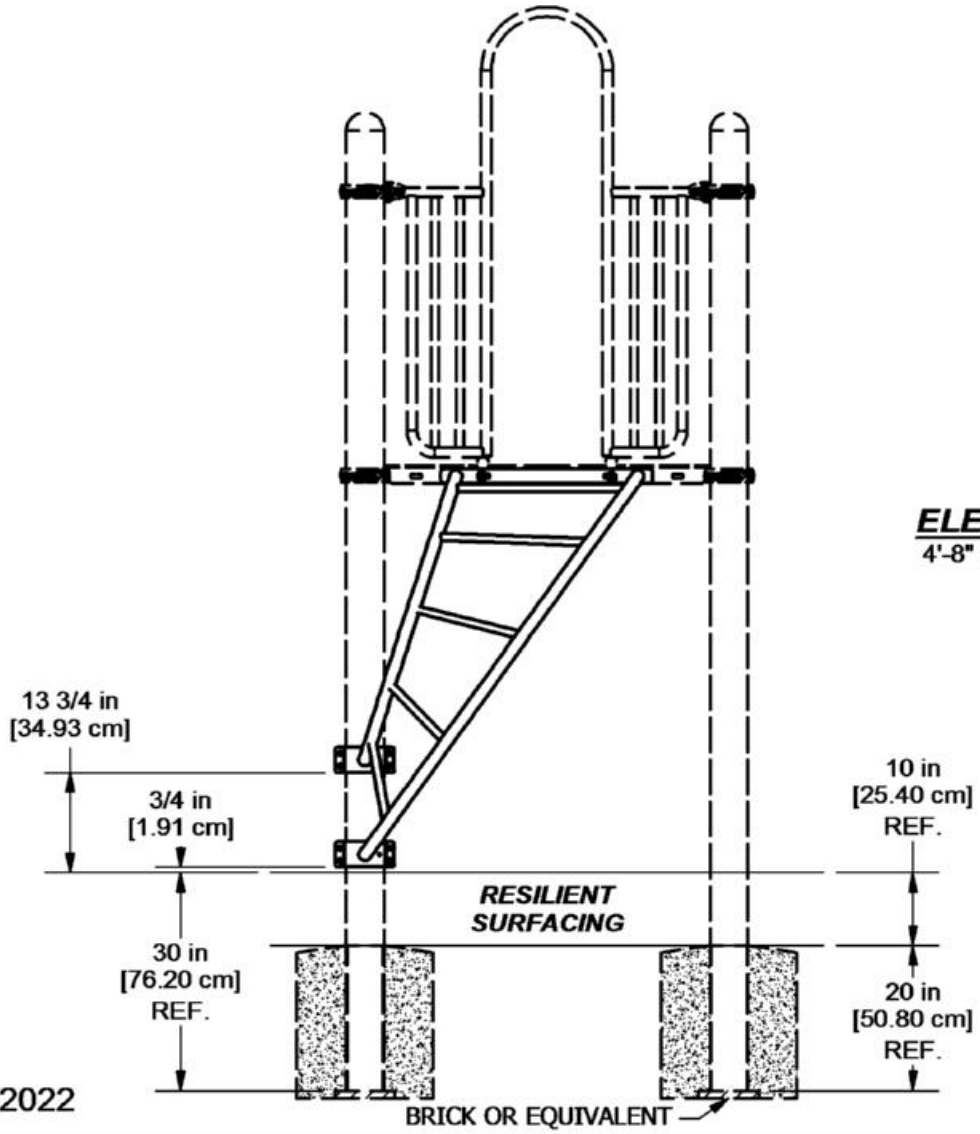
4'-8" CLIMBER SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

72025 4'-8" DOUBLE BEND CLIMBER

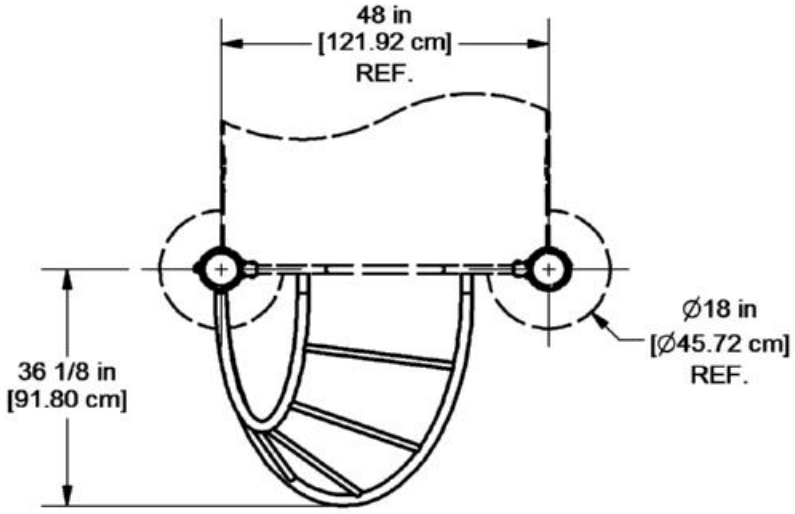


PLAN VIEW

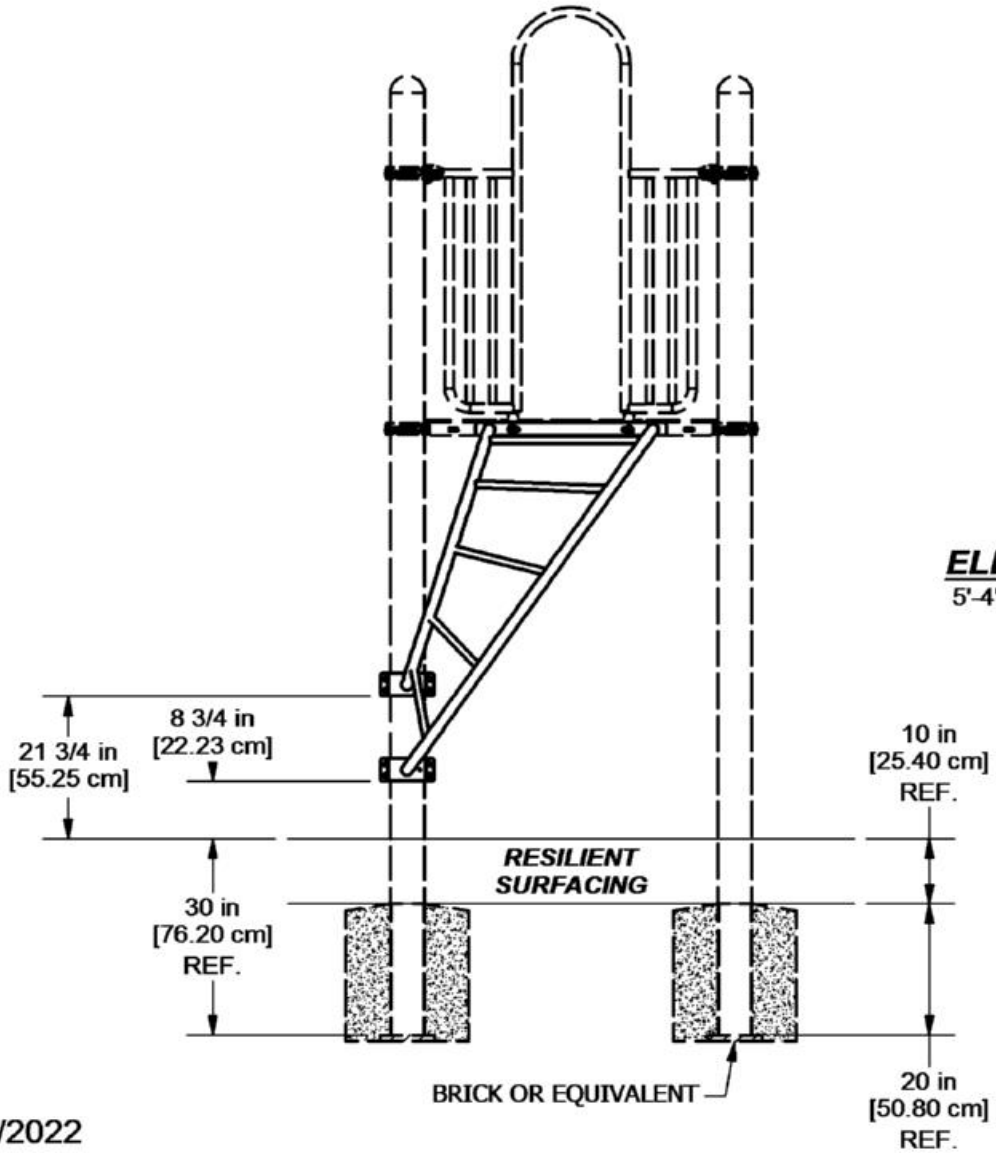


ELEVATION VIEW
4'-8" CLIMBER SHOWN

72025 5'-4" DOUBLE BEND CLIMBER

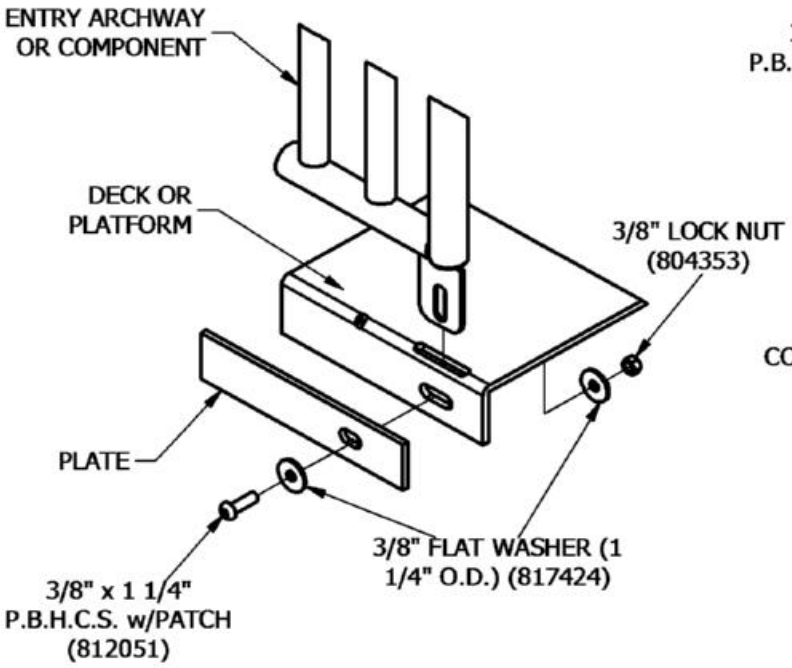


PLAN VIEW

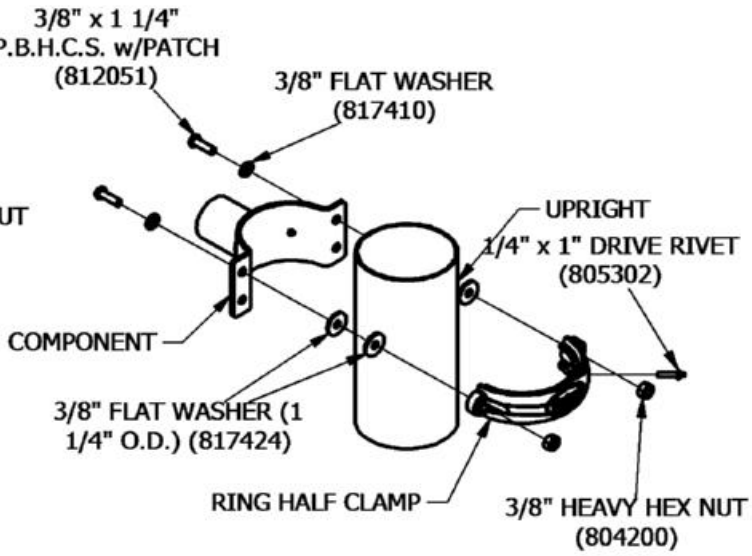


ELEVATION VIEW
5'-4" CLIMBER SHOWN

72025 DOUBLE BEND CLIMBER



461



475

This equipment is designed for children 2-5 or 5-12 years old

72042 PARALLAX LEG N

Parts List		
DESCRIPTION	QTY	PART NUMBER
PANEL ADAPTER	1	309919
SIDE HDPE	1	315584
PARALLAX LEG N WELDMENT	1	316139
	1	315585
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	1	812053
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	10	812057
3/8" LOCK WASHER	10	817334
3/8" FLAT WASHER	23	817410
3/8" BARREL NUT	13	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Parallax Leg N. Refer to Order Top View.
2. Attach Parallax Leg N to Single Parallax Casting (71992). See Detail 1080. Refer to Order Top View for casting locations.
3. Attach Panel Adapter to Ring Clamp. See Detail 467. Refer to Elevation View for Clamp height.
4. Attach Side HDPE to Parallax Leg. See Detail 602 and Detail 467.
5. Attach required climbing elements. See Detail 1084 and 1174. Refer to included Parallax Climber Installation sheets for placement and orientation.
6. Reference order top view and included Parallax Climber installation sheets. If no climbing element attaches to a set of Parallax Leg holes, plug open holes. See Detail 1089.
7. Plumb and level the entire assembly and tighten all fasteners.

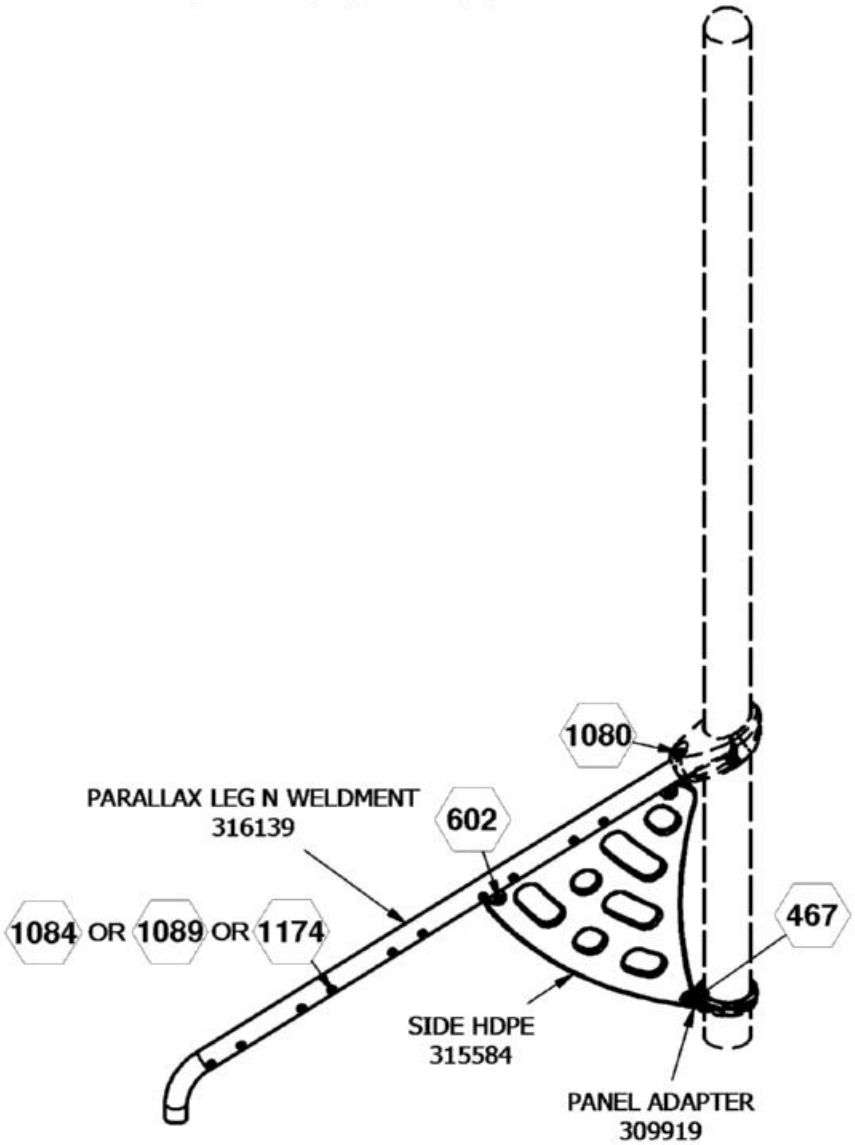
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

8. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

72042 PARALLAX LEG N

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.





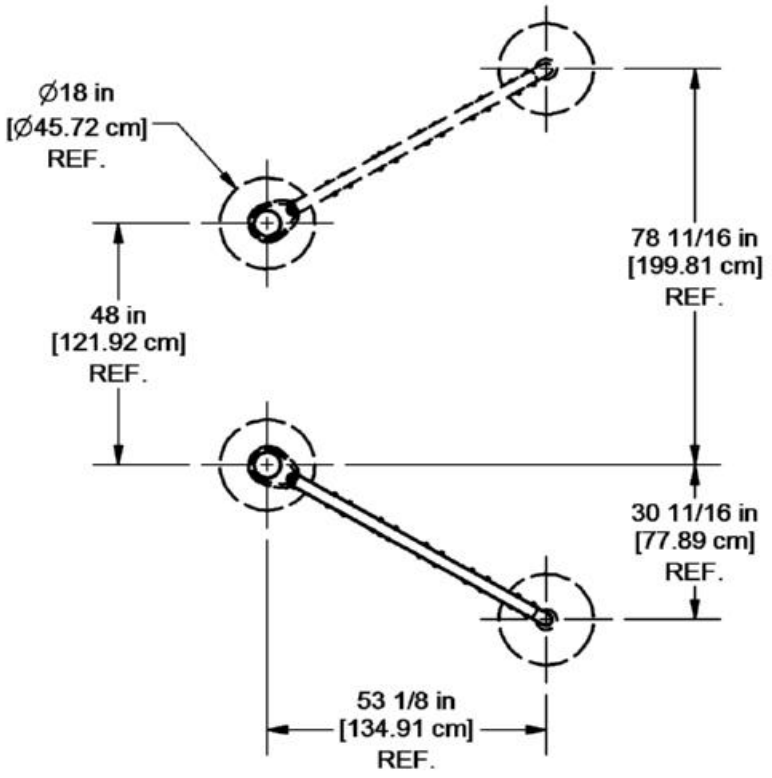
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 10/6/2022

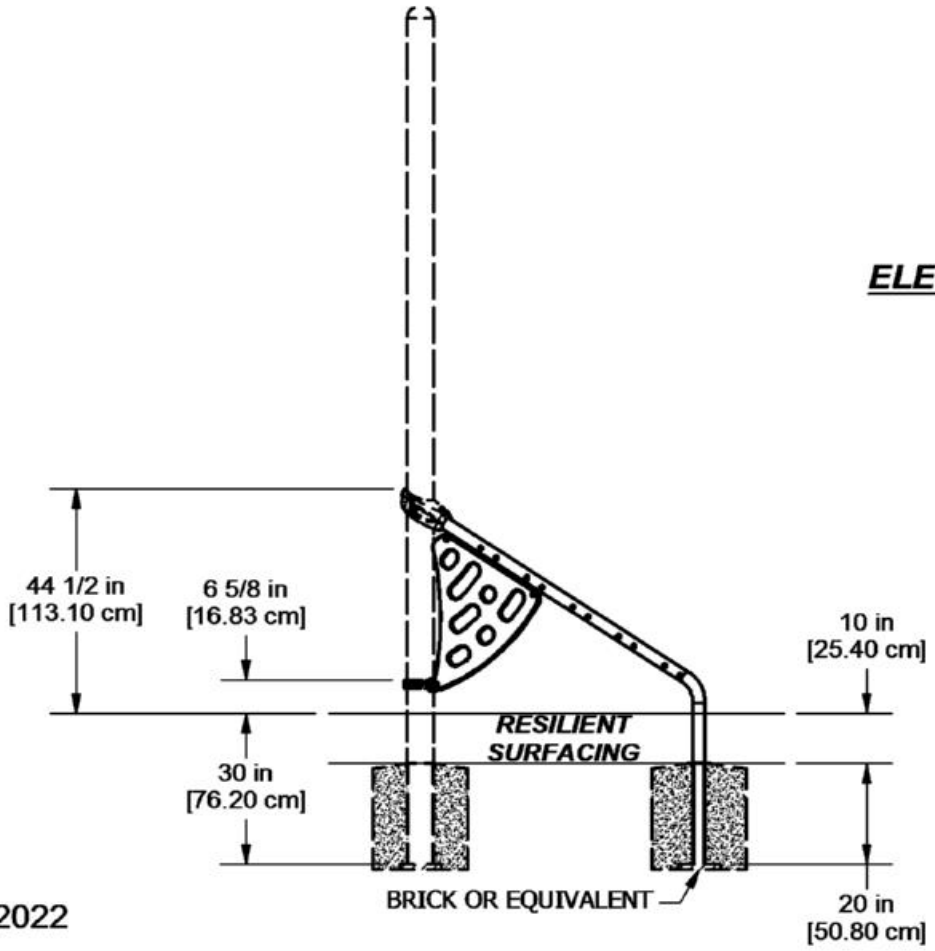
FINISHED ASSEMBLY

72042 PARALLAX LEG N



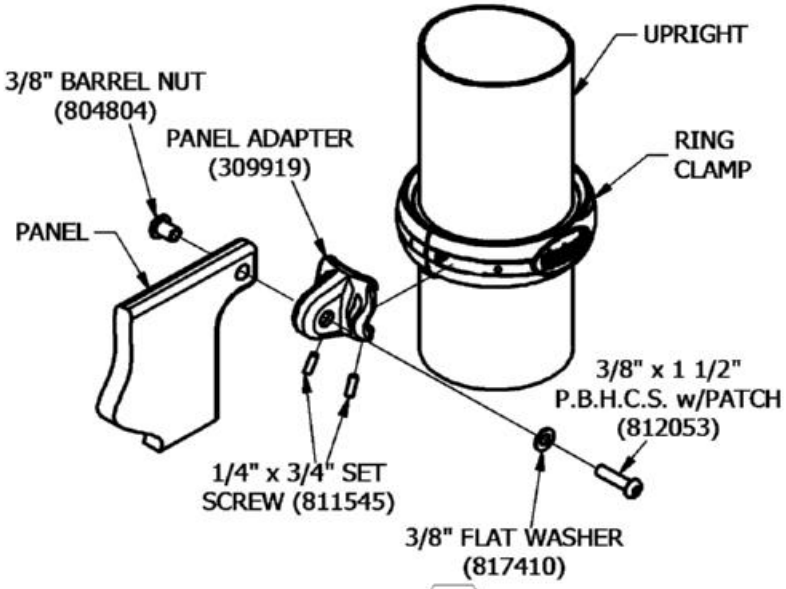
PLAN VIEW

ELEVATION VIEW

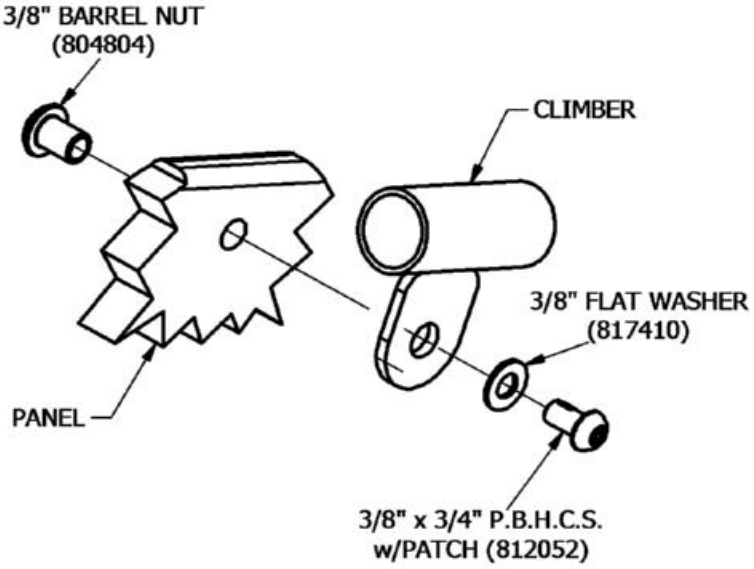


72042 PARALLAX LEG N

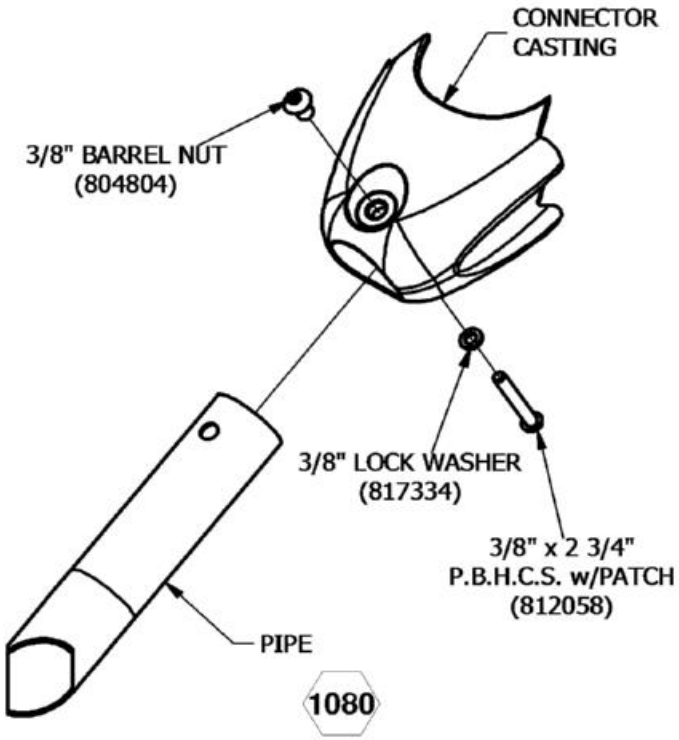
NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



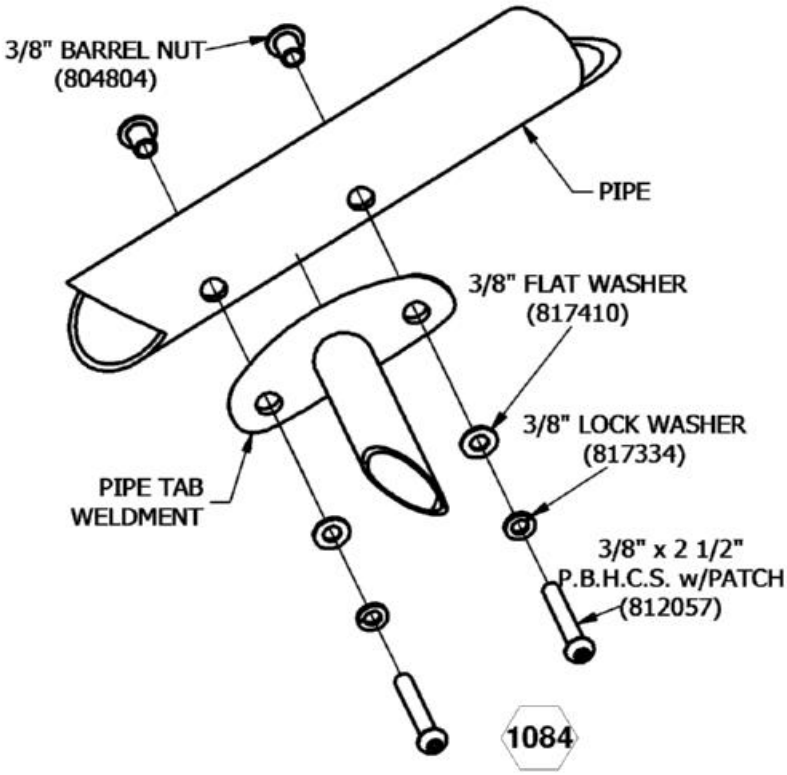
467



602

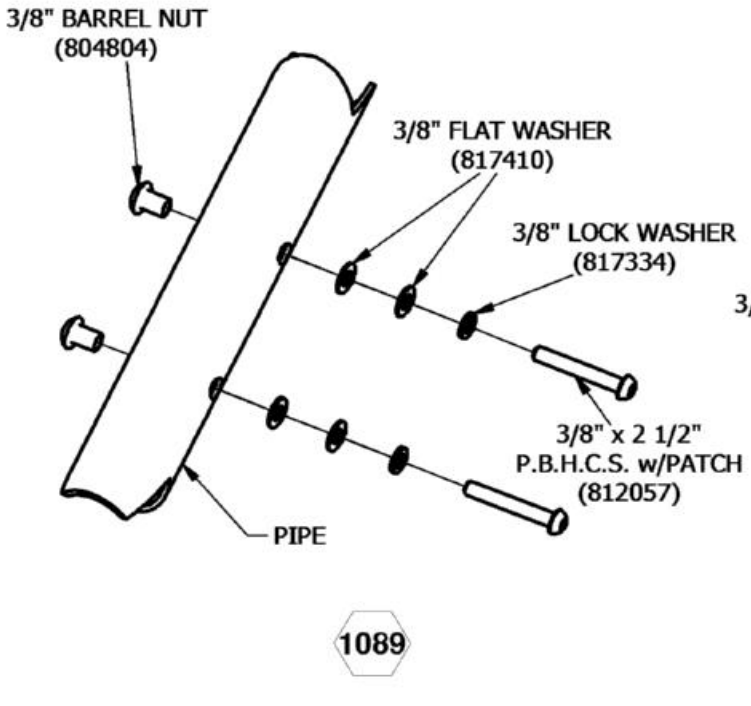


1080

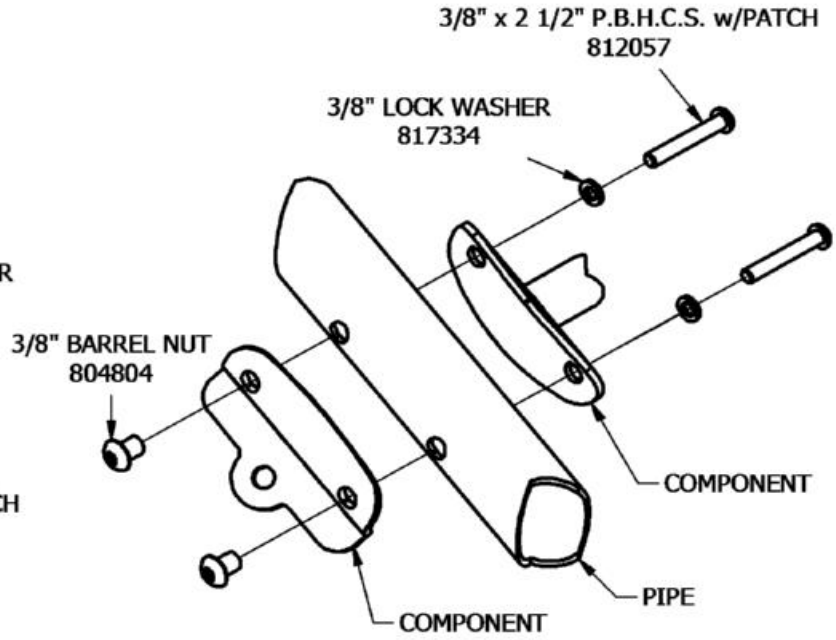


1084

72042 PARALLAX LEG N



1089



1174

72056 EXPANSE LINK

Parts List		
DESCRIPTION	QTY	PART NUMBER
VERTICAL ADAPTER	2	309917
SMASHED NET FOOTBUCK	1	315994
CONVEYOR LINK WELDMENT	1	316234
DECK CROSSBAR WELDMENT	1	316237
HDPE FILLER	1	316239
LINK CONVEYOR A	1	316240
LINK CONVEYOR B	1	316241
LINK CONVEYOR C	1	316242
HARDWARE COMPLETE	1	316243
1/4" x 3/4" SET SCREW	4	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	3	812052
3/8" x 1" P.B.H.C.S. w/PATCH	17	812050
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	3	812051
3/8" LOCK WASHER	8	817334
3/8" FLAT WASHER	6	817410
3/8" FLAT WASHER (1 1/4" O.D.)	33	817424
3/8" ACORN NUT	16	804002
3/8" BARREL NUT	5	804804
3/8" LOCK NUT	2	804353
UPRIGHT CHAIN 21 LINKS	2	213236

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which decks are to receive the Expanse Link. Refer to Order Top View.
2. Attach the Deck Crossbar Weldment to the Uprights and the Deck. See Details 1182 and 1183.
3. Attach the Link Conveyor A to the Deck Crossbar Weldment. See Detail 1082. Refer to Finished Assembly views for orientation.
4. Attach Link Conveyor B and Link Conveyor C to the Parallax Legs. See Detail 1082. Refer to Finished Assembly views for orientation.
5. Attach Link Conveyor A, Link Conveyor B, and Link Conveyor C to the Conveyor Link Weldment. See Detail 1082.
6. Attach the HDPE Filler panel to the Conveyor Link Weldment. See Detail 1184.
7. Attach the Upright Chain 21 Links to the Conveyor Link Weldment. See Detail 1086.
8. Attach the Upright Chain 21 Links to the Smashed Net Footbuck. See Detail 1204.
9. Plug open holes in Parallax Legs. See Detail 1089.
10. Plumb and level the entire assembly and tighten all fasteners.

72056 EXPANSE LINK

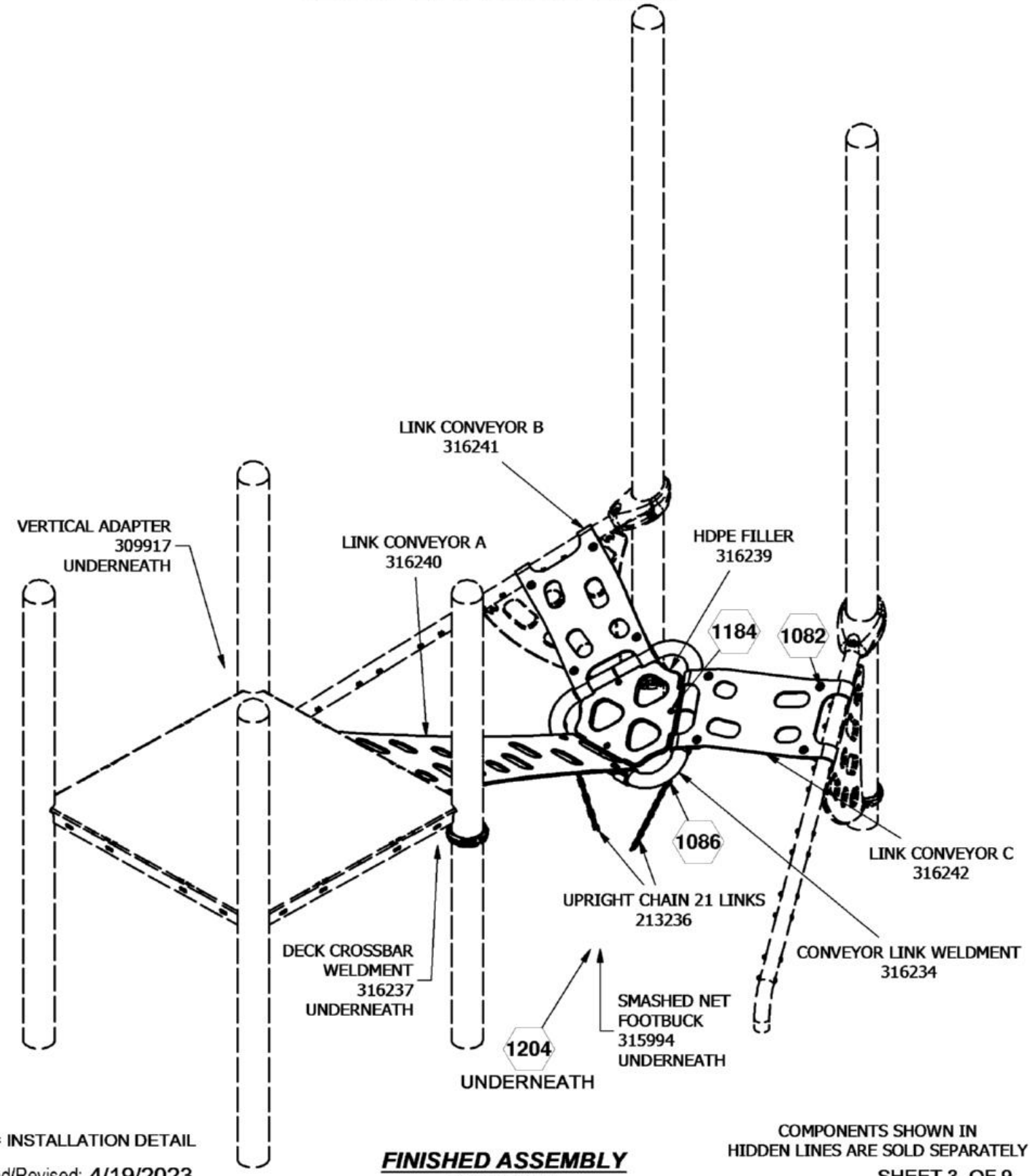
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

11. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

72056 EXPANSE LINK



⬡ = INSTALLATION DETAIL

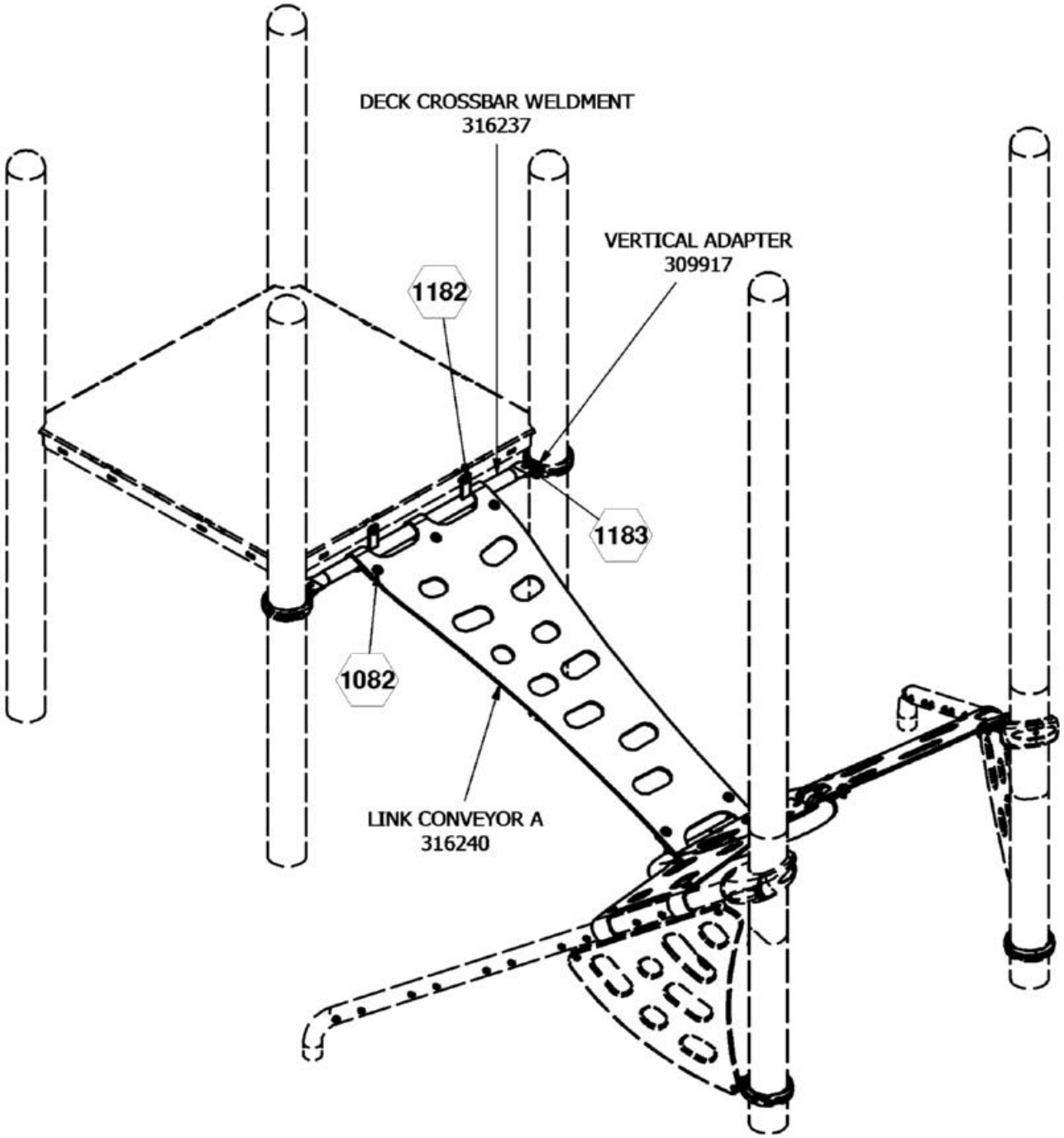
Issued/Revised: 4/19/2023

FINISHED ASSEMBLY

4'-0" SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

72056 EXPANSE LINK



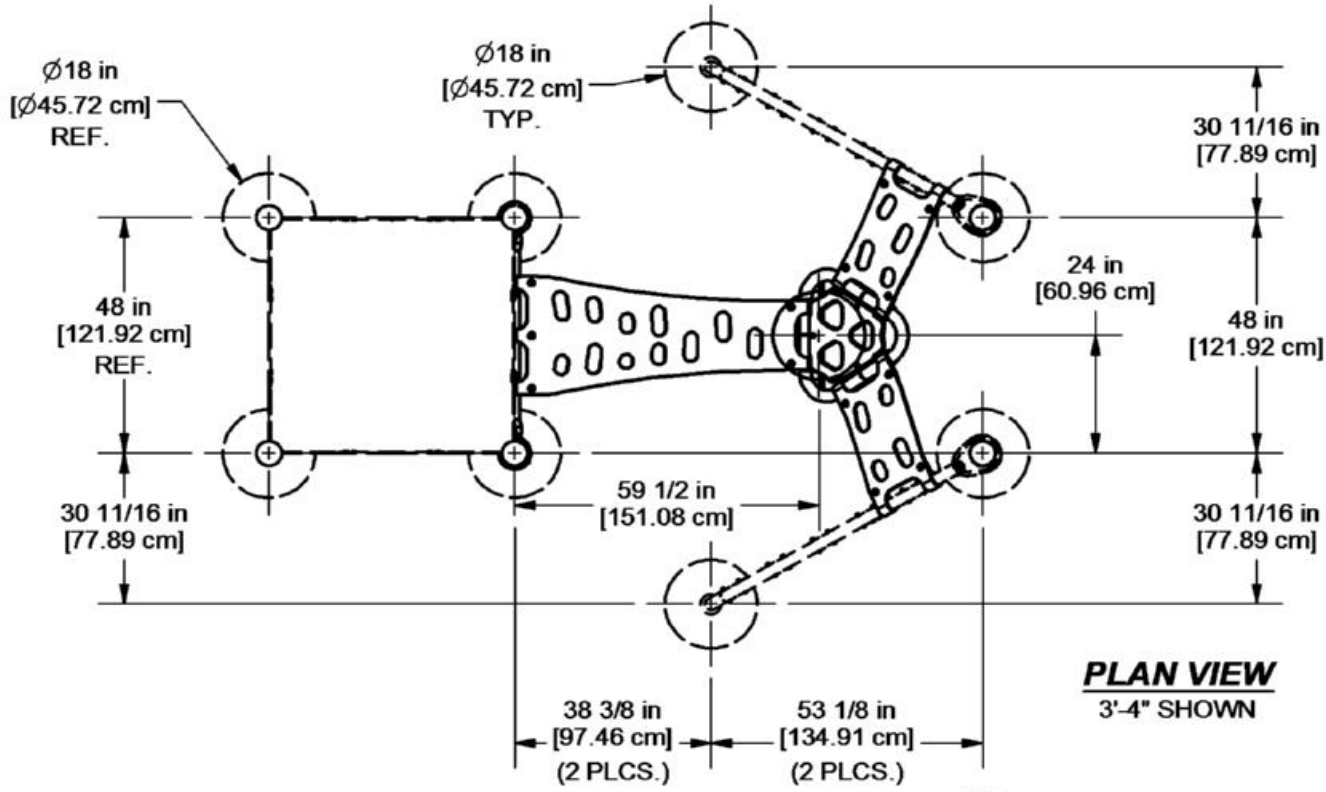
⬡ = INSTALLATION DETAIL

Issued/Revised: 4/19/2023

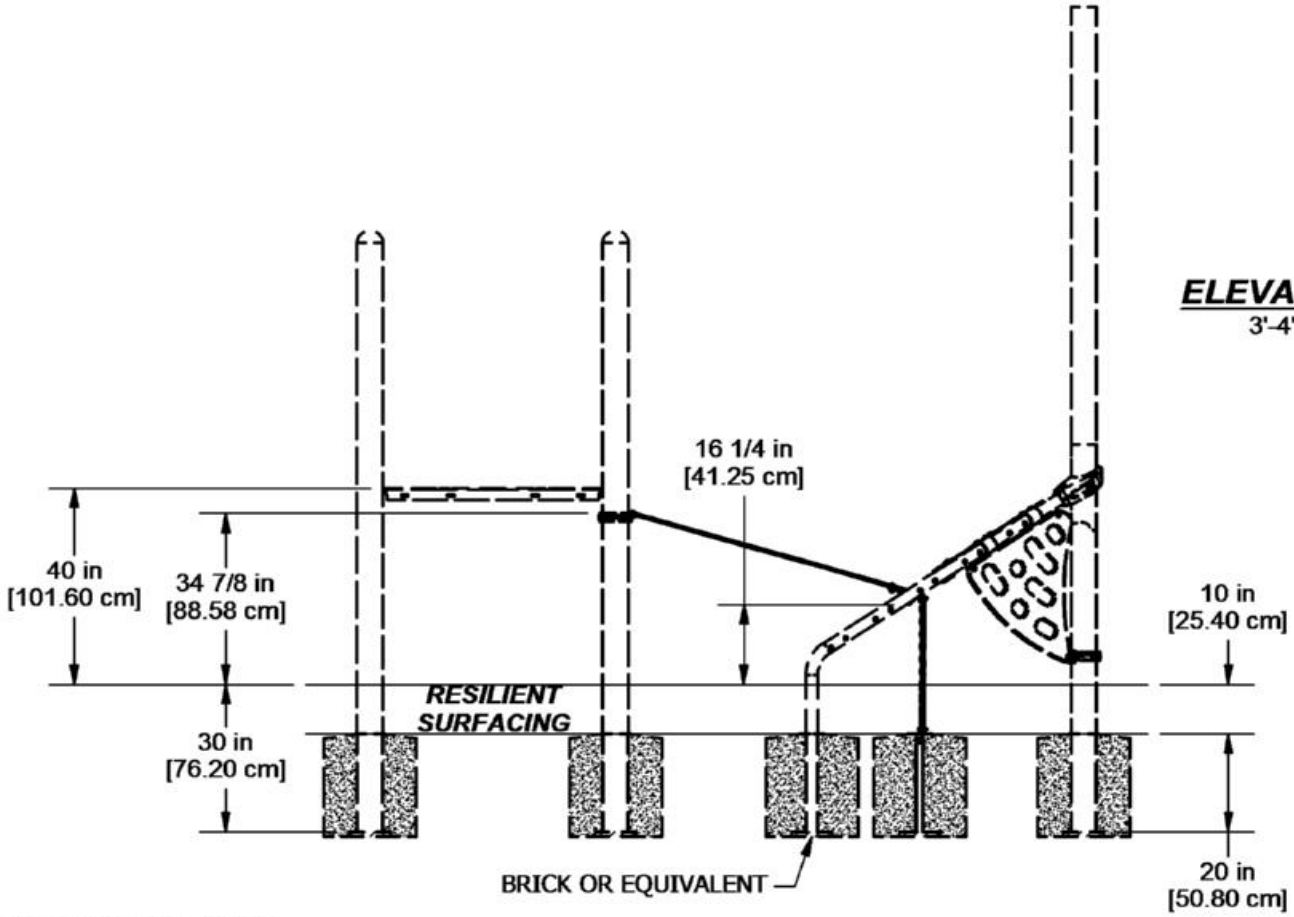
FINISHED ASSEMBLY
4'-0" SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

72056 EXPANSE LINK

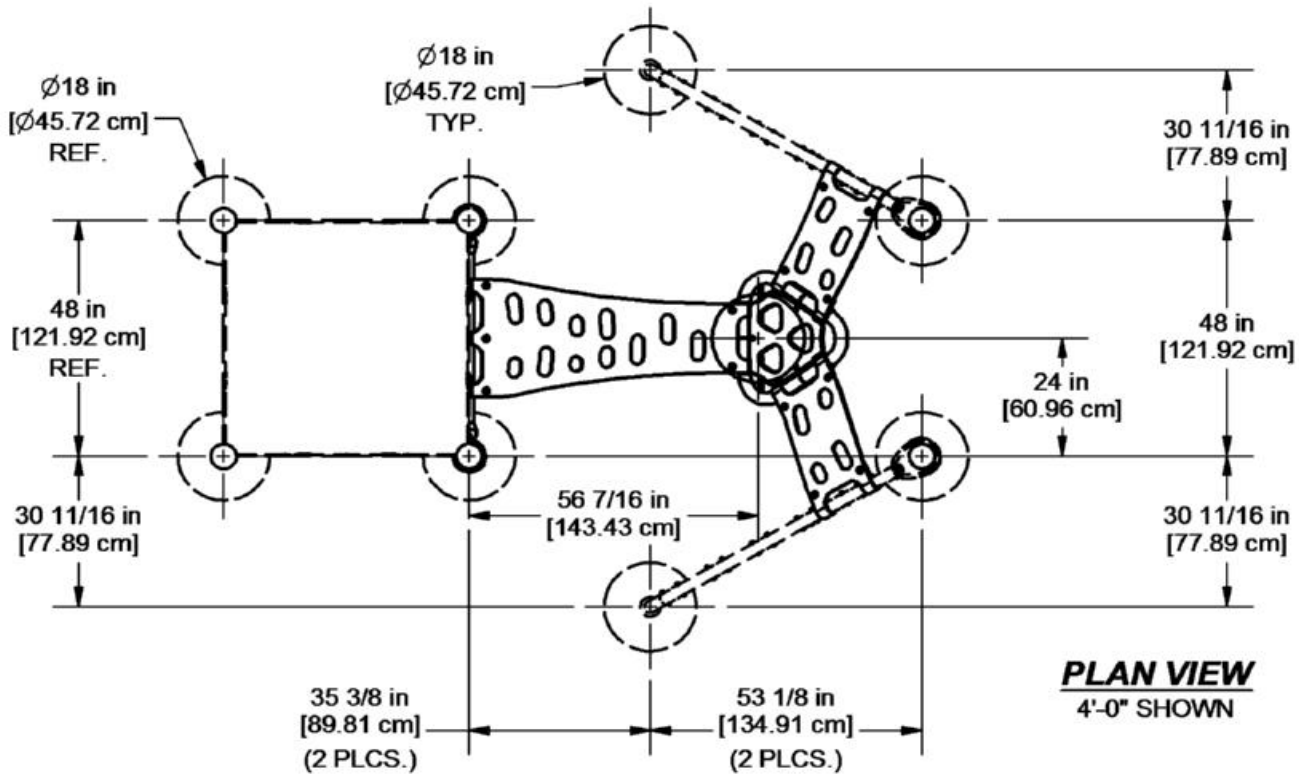


PLAN VIEW
3'-4" SHOWN

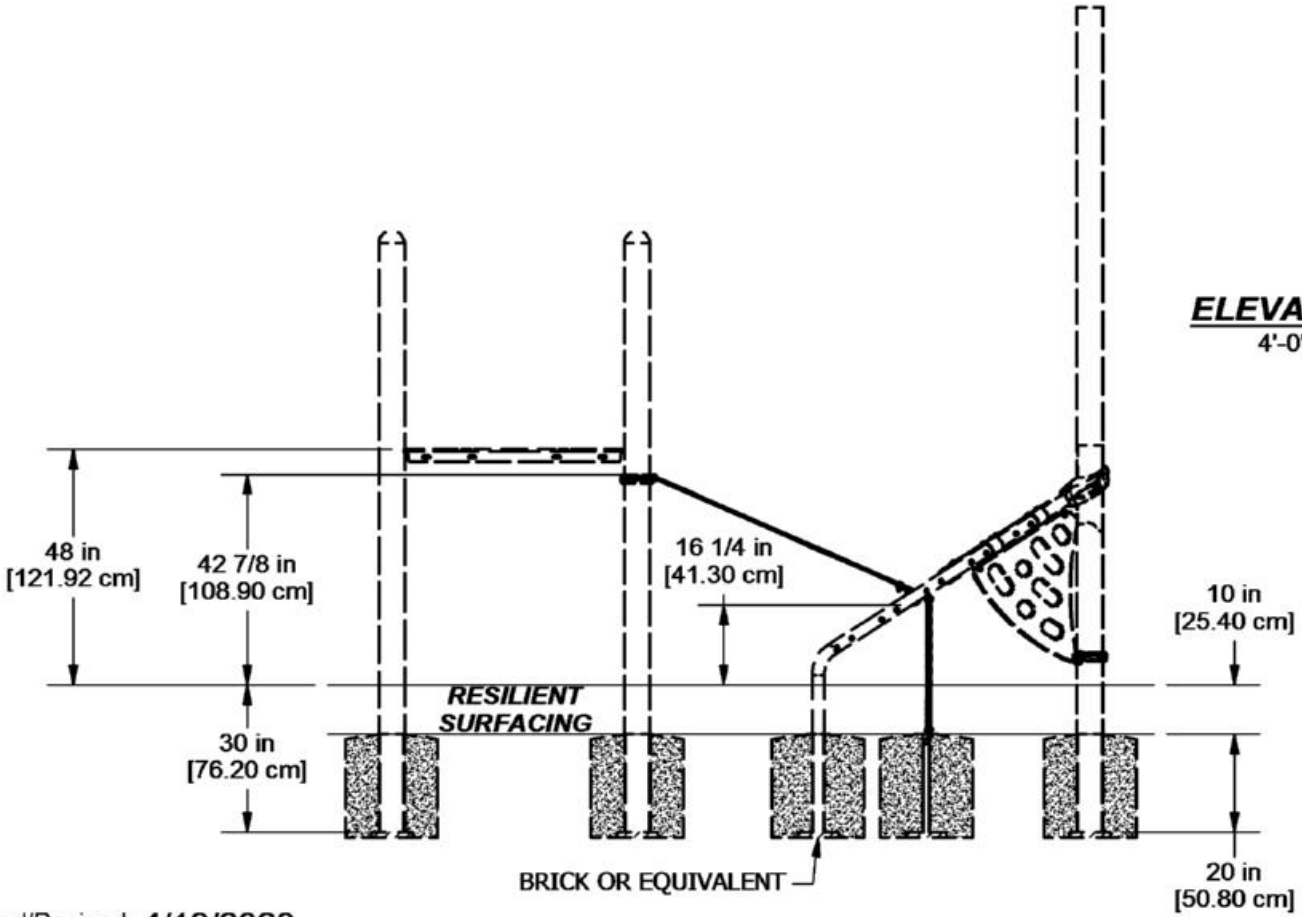


ELEVATION VIEW
3'-4" SHOWN

72056 EXPANSE LINK

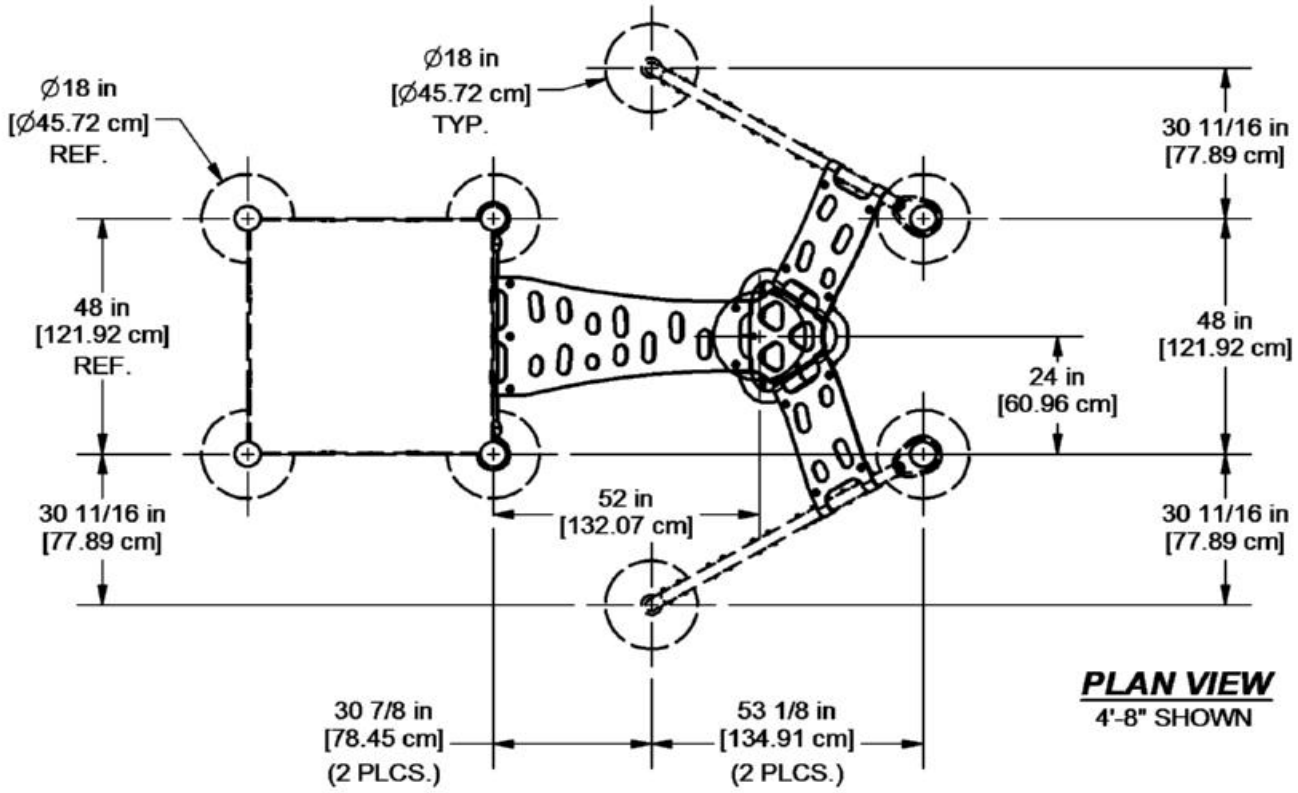


PLAN VIEW
4'-0" SHOWN

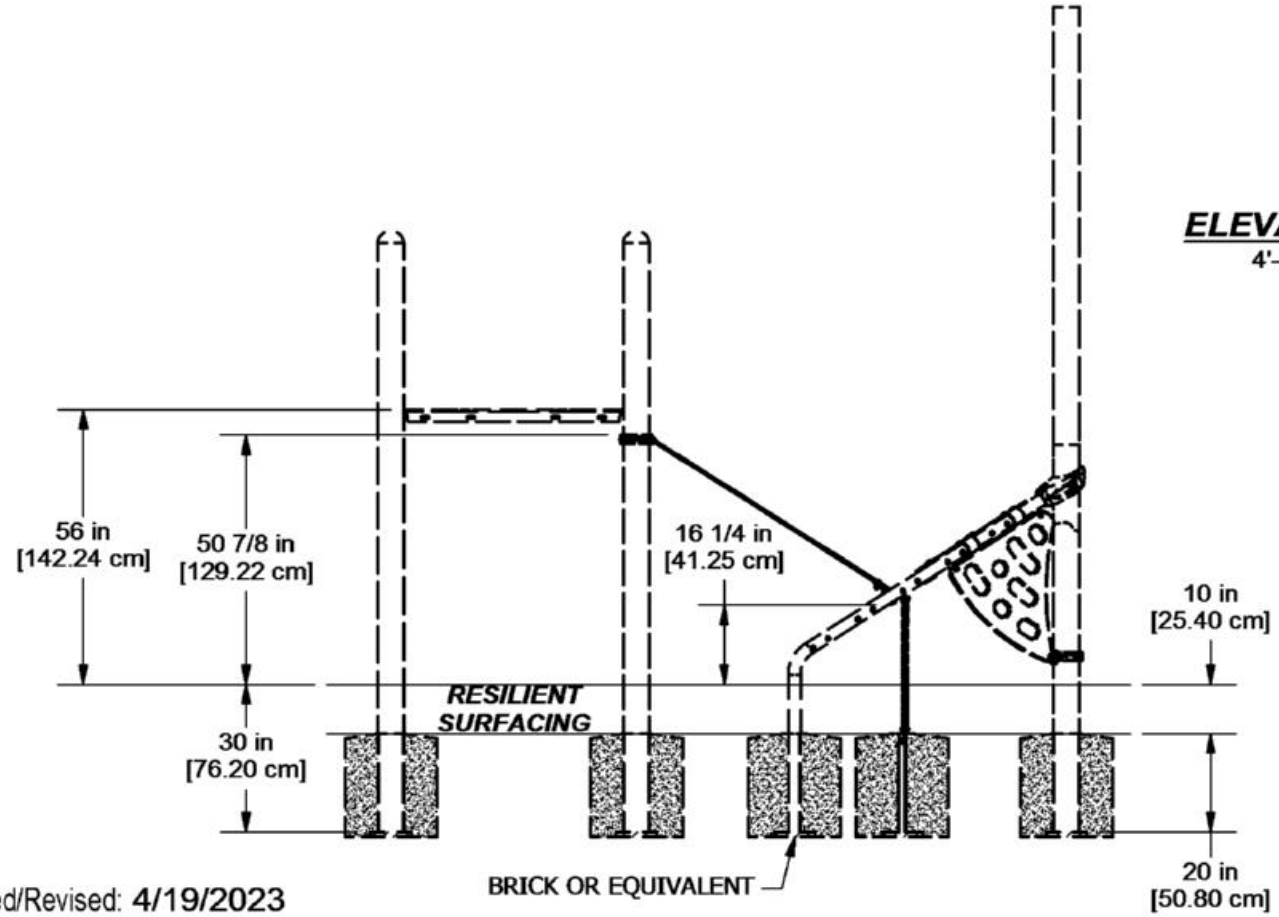


ELEVATION VIEW
4'-0" SHOWN

72056 EXPANSE LINK

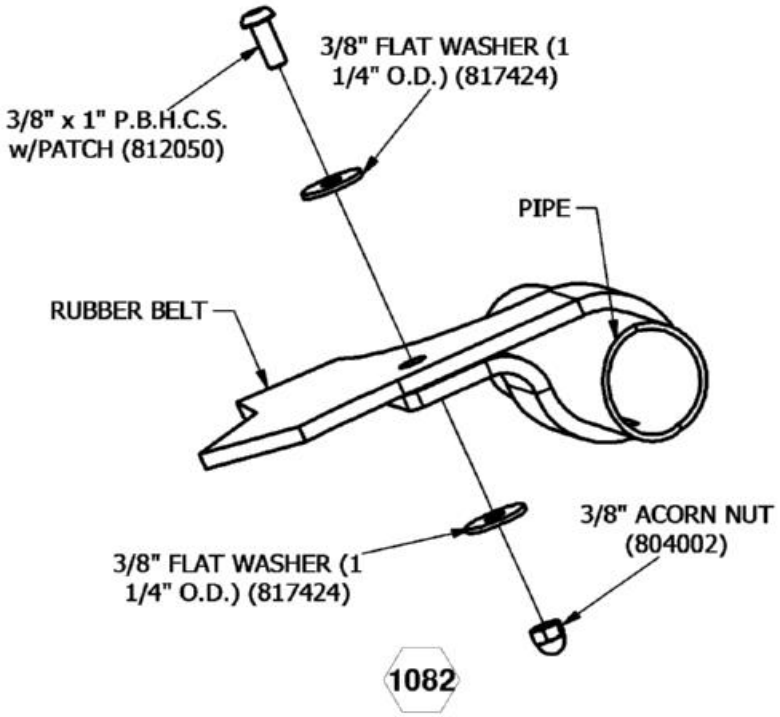


PLAN VIEW
4'-8" SHOWN

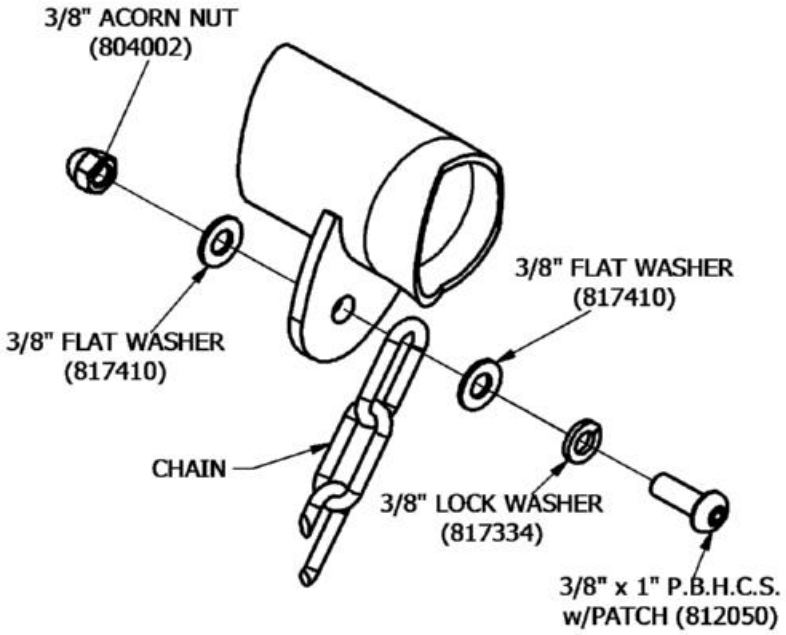


ELEVATION VIEW
4'-8" SHOWN

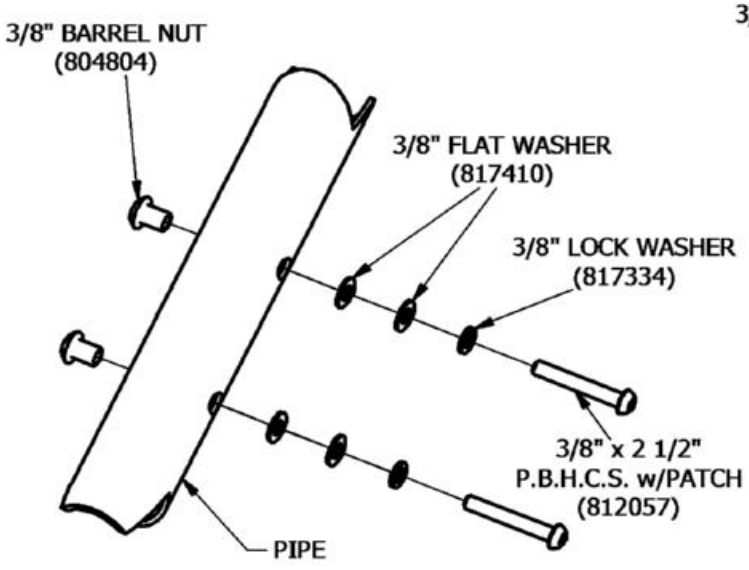
72056 EXPANSE LINK



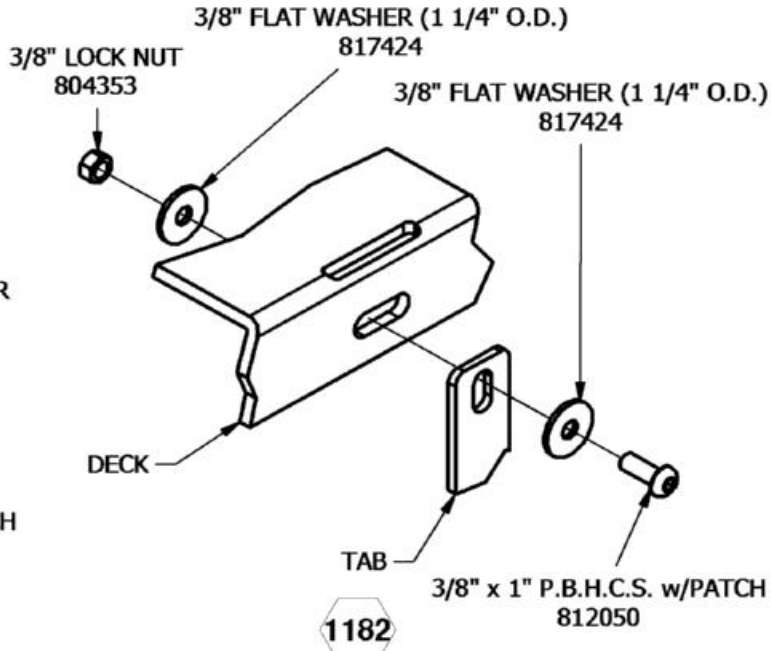
1082



1086

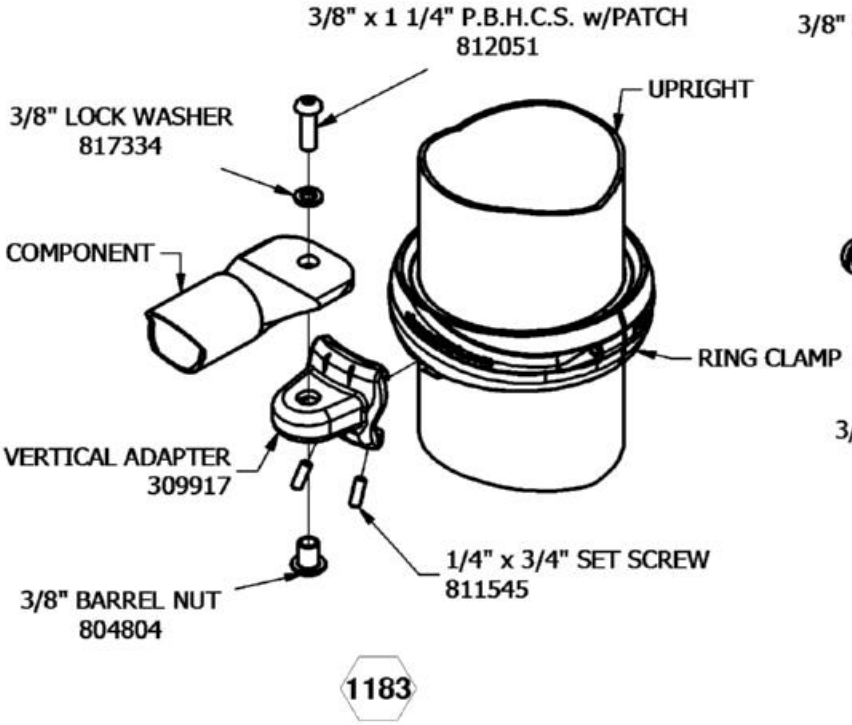


1089

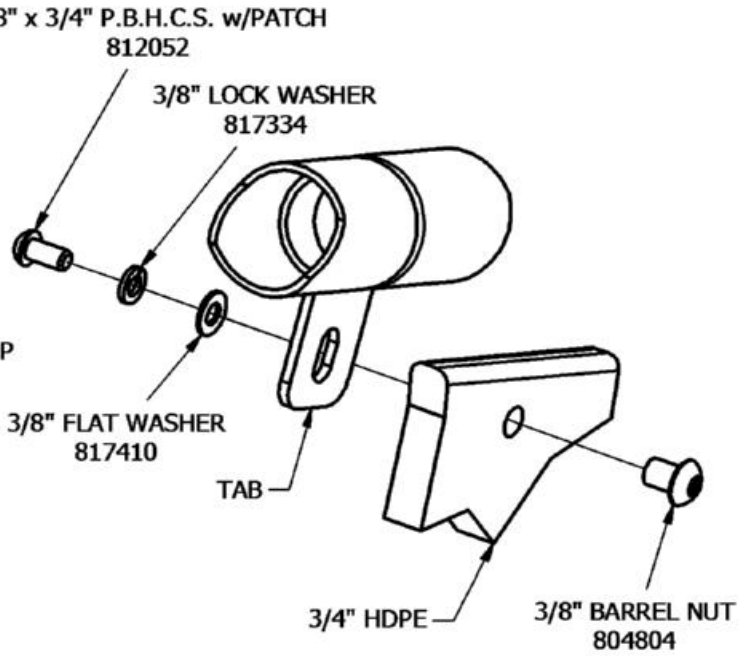


1182

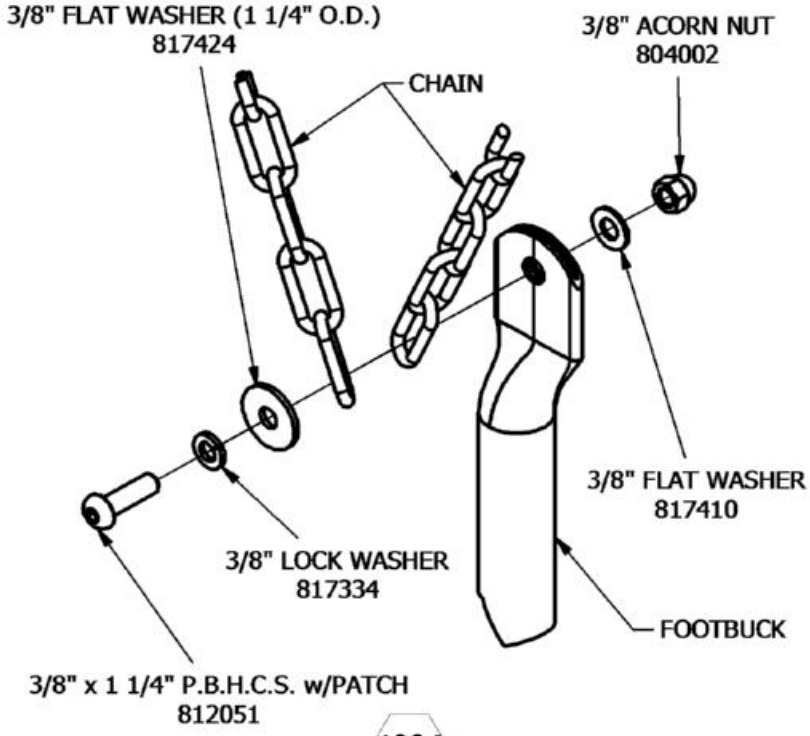
72056 EXPANSE LINK



1183



1184



1204

72083 SPACE ACTIVITY PANEL (BELOW DECK)

Parts List		
DESCRIPTION	QTY	PART NUMBER
VERTICAL ADAPTER	2	309917
PANEL ADAPTER	2	309919
CRAWL TUNNEL PANEL	1	309997
TAB	2	310004
SUPERMAX SPACE ACTIVITY PANEL	1	316395
HARDWARE COMPLETE	1	316412
1/4" x 3/4" SET SCREW	8	811545
5/16" x 1 1/2" P.B.H.C.S. w/PATCH	12	812045
5/16" LOCK WASHER	12	817330
5/16" FLAT WASHER (5/8" O.D.)	12	817406
5/16" T-NUT	12	804555
3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056
3/8" LOCK WASHER	4	817334
3/8" FLAT WASHER (1 1/4" O.D.)	2	817424
3/8" BARREL NUT	4	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

72083 SPACE ACTIVITY PANEL (BELOW DECK)

INSTALLATION INSTRUCTIONS:

1. Determine which is the deck to receive the Space Panel (Below Deck). Refer to order Top View.

2. Loosely attach Ring Clamps. Refer to seperate Ring Clamp installation sheet.

3. Attach Space Activity Panel to Crawl Tunnel Panel. See Detail 1212.

4. Attach assembled Space Activity Panel to Panel Clamps with Panel Adapters. See Detail 450.

5. Attach assembled Space Activity Panel to Panel Clamps with Vertical Adapters. See Detail 454.

6. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

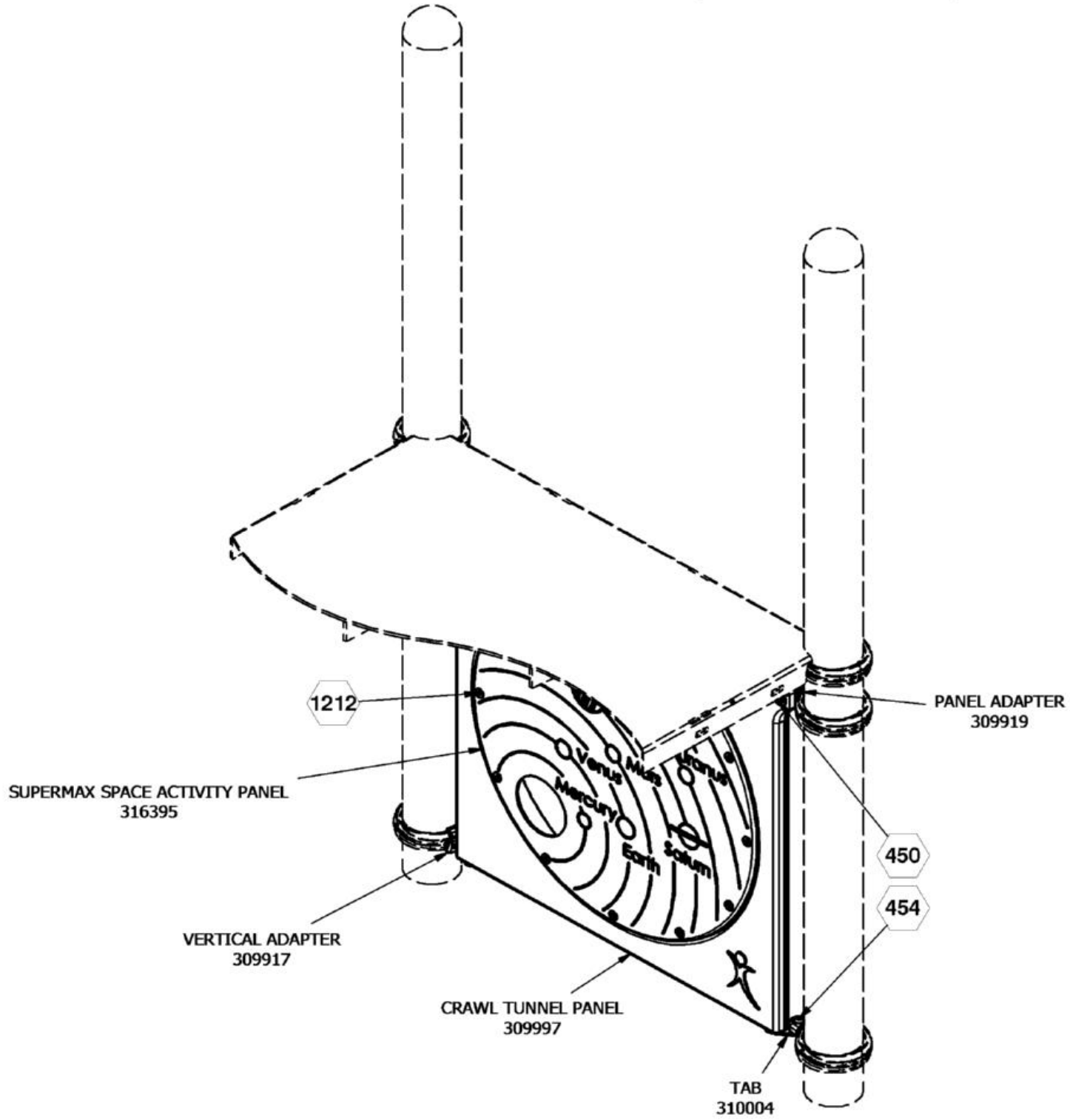
7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Install resilient surfacing material within the use zone 1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72083 SPACE ACTIVITY PANEL (BELOW DECK)



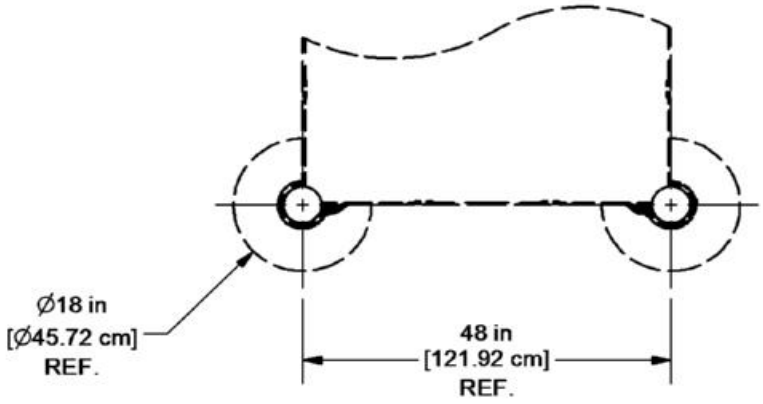
= INSTALLATION DETAIL

Issued/Revised: 3/14/2023

FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

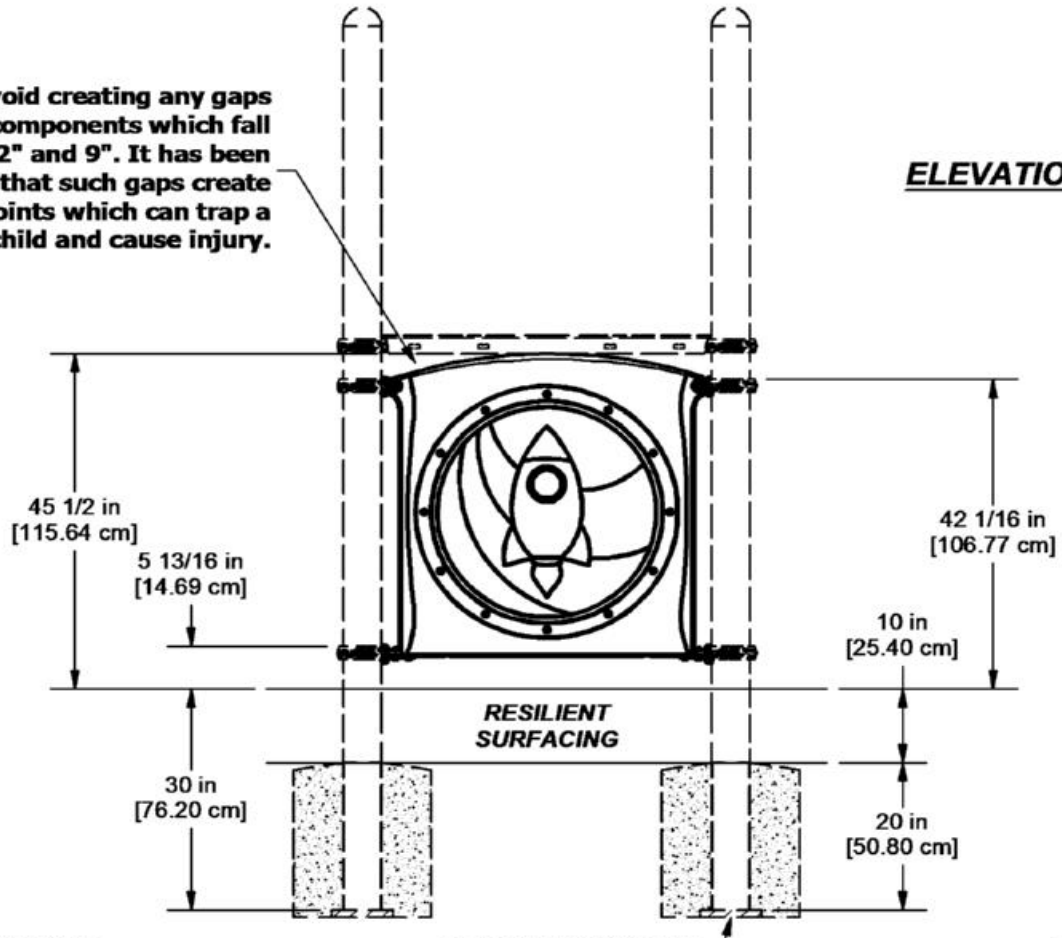
72083 SPACE ACTIVITY PANEL (BELOW DECK)



PLAN VIEW

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

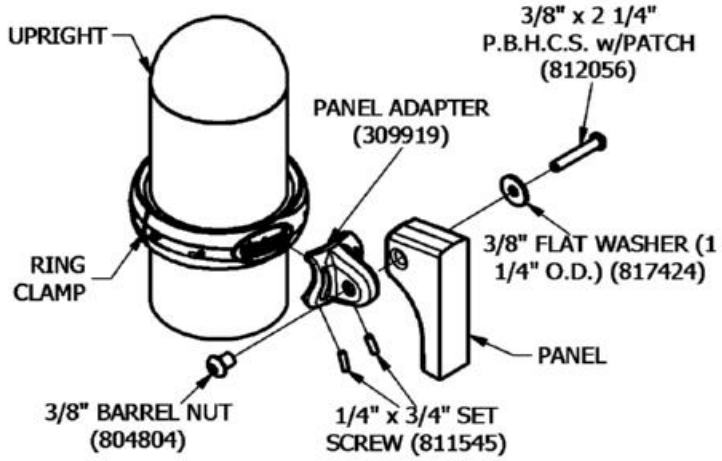
ELEVATION VIEW



72083 SPACE ACTIVITY PANEL (BELOW DECK)

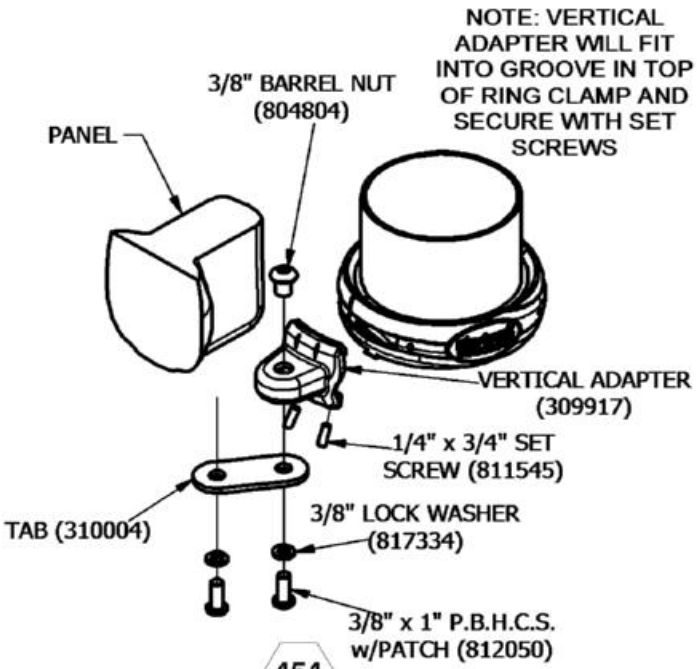
NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.

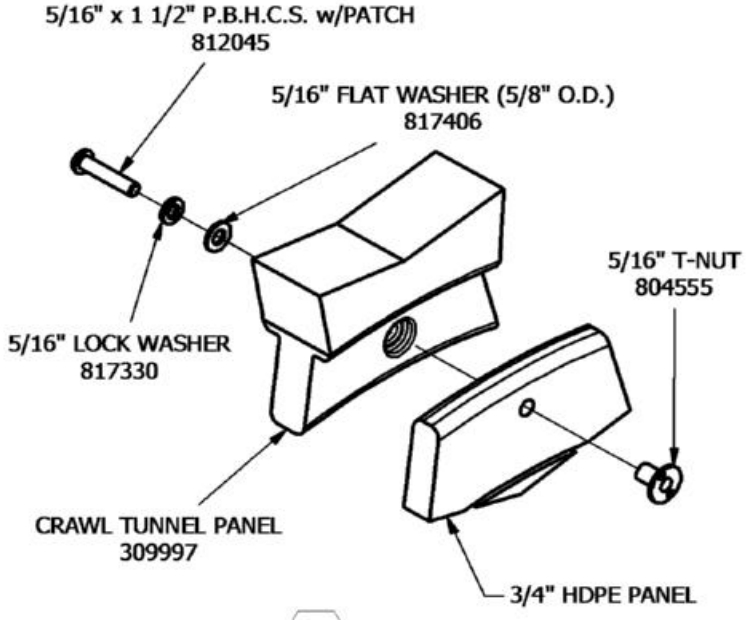


450

NOTE: VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



454



1212

72084 CLOUDS ACTIVITY PANEL (BELOW DECK)

Parts List		
DESCRIPTION	QTY	PART NUMBER
VERTICAL ADAPTER	2	309917
PANEL ADAPTER	2	309919
CRAWL TUNNEL PANEL	1	309997
TAB	2	310004
SUPERMAX CLOUDS ACTIVITY PANEL	1	316406
HARDWARE COMPLETE	1	316412
1/4" x 3/4" SET SCREW	8	811545
5/16" x 1 1/2" P.B.H.C.S. w/PATCH	12	812045
5/16" LOCK WASHER	12	817330
5/16" FLAT WASHER (5/8" O.D.)	12	817406
5/16" T-NUT	12	804555
3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056
3/8" LOCK WASHER	4	817334
3/8" FLAT WASHER (1 1/4" O.D.)	2	817424
3/8" BARREL NUT	4	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

72084 CLOUDS ACTIVITY PANEL (BELOW DECK)

INSTALLATION INSTRUCTIONS:

1. Determine which is the deck to receive the Clouds Panel (Below Deck). Refer to order Top View.

2. Loosely attach Ring Clamps. Refer to seperate Ring Clamp installation sheet.

3. Attach Clouds Activity Panel to Crawl Tunnel Panel. See Detail 1212.

4. Attach assembled Clouds Activity Panel to Panel Clamps with Panel Adapters. See Detail 450.

5. Attach assembled Clouds Activity Panel to Panel Clamps with Vertical Adapters. See Detail 454.

6. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

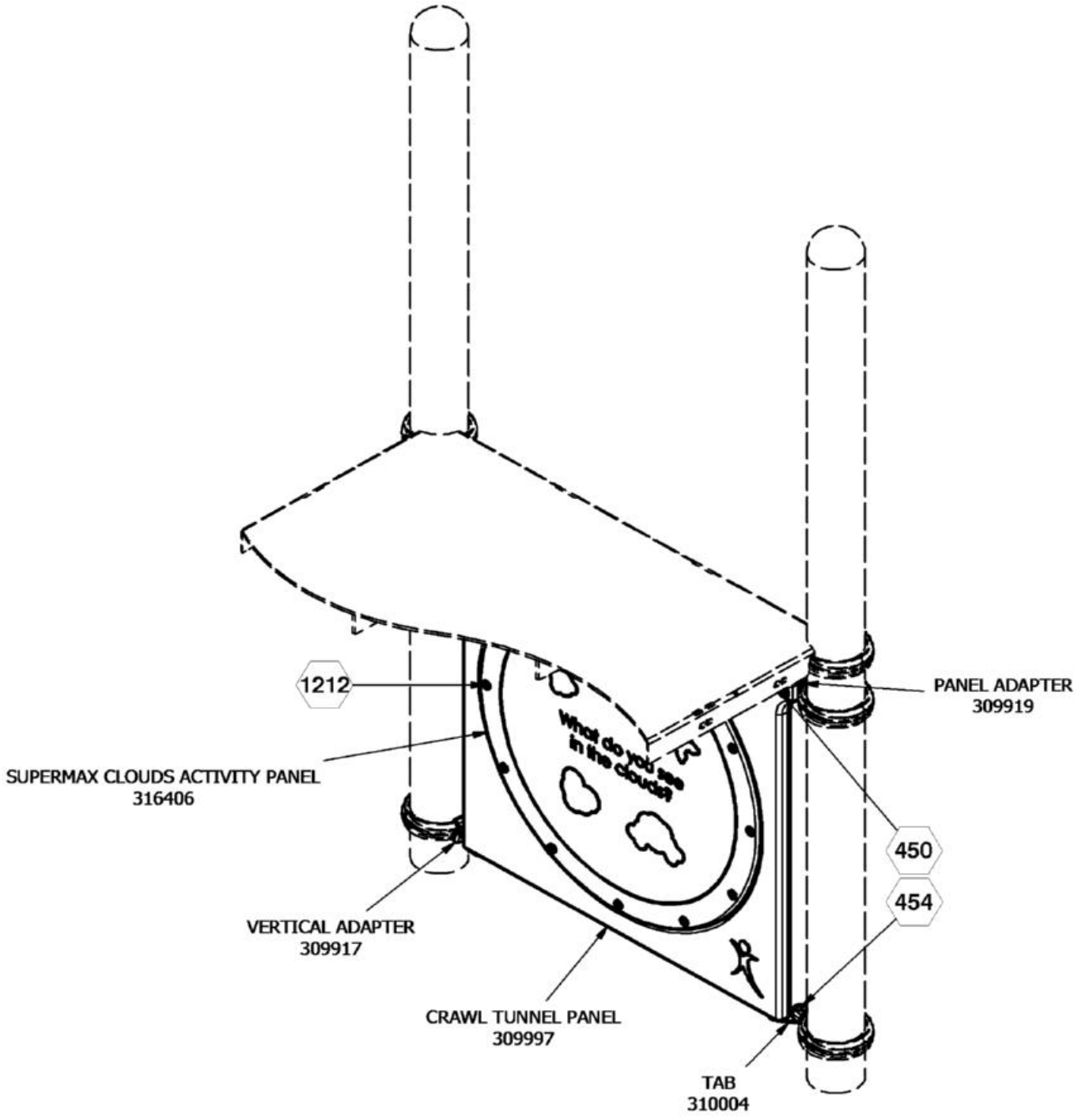
7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Install resilient surfacing material within the use zone 1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72084 CLOUDS ACTIVITY PANEL (BELOW DECK)



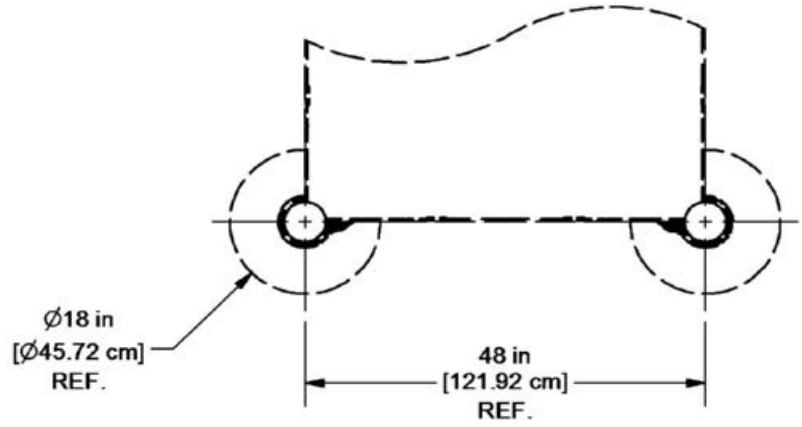
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 3/14/2023

FINISHED ASSEMBLY

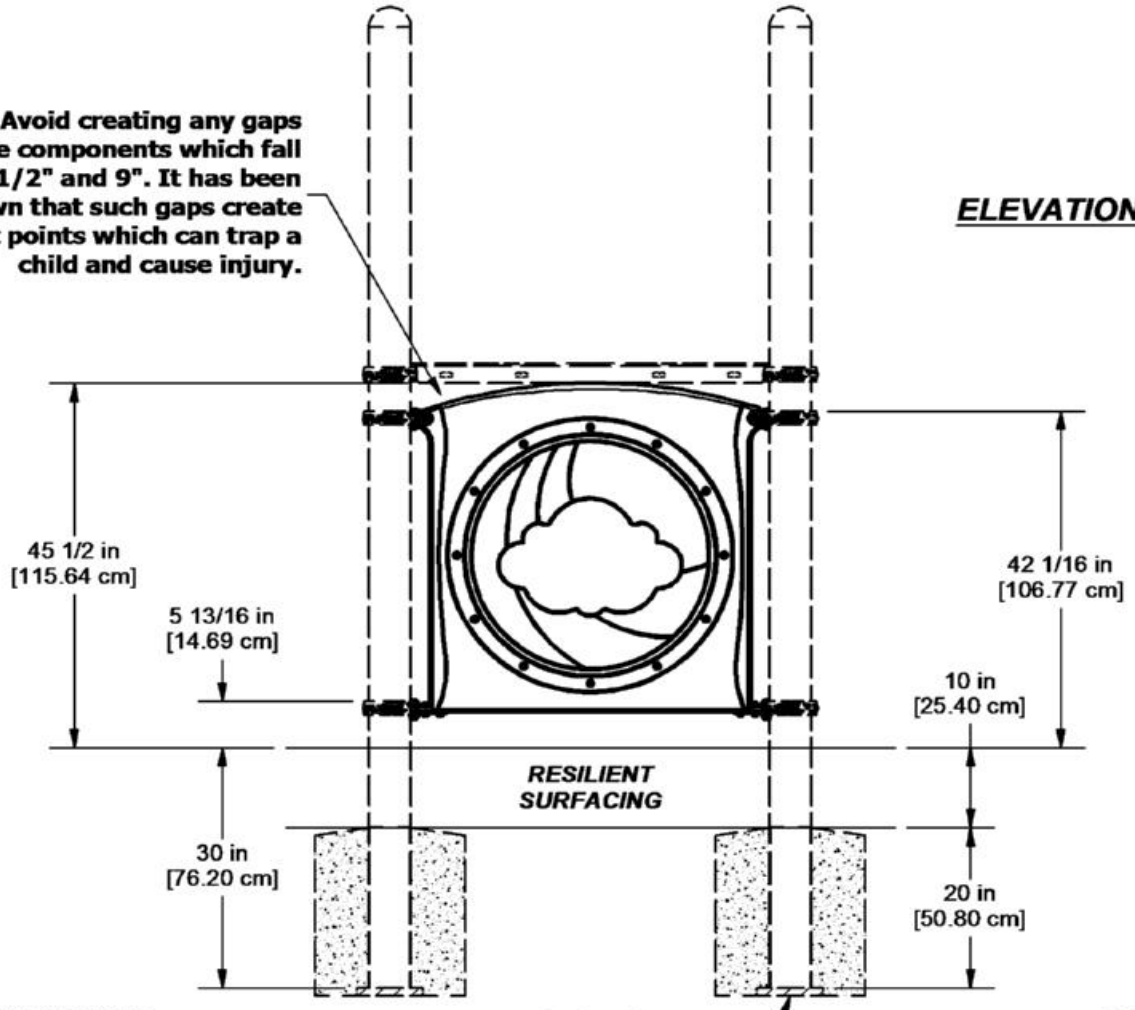
72084 CLOUDS ACTIVITY PANEL (BELOW DECK)



PLAN VIEW

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

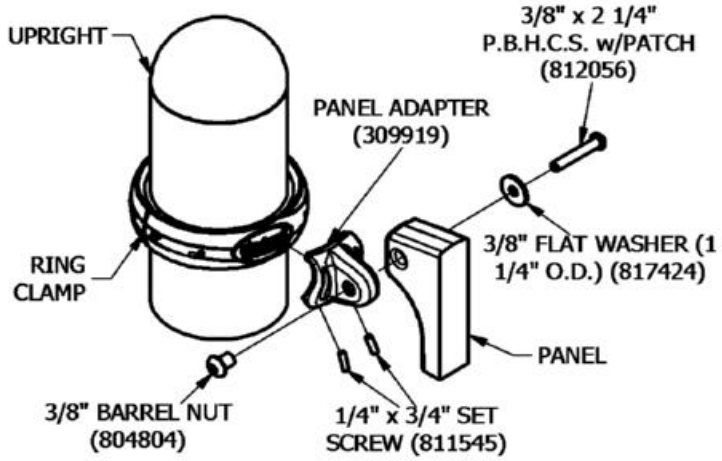
ELEVATION VIEW



72084 CLOUDS ACTIVITY PANEL (BELOW DECK)

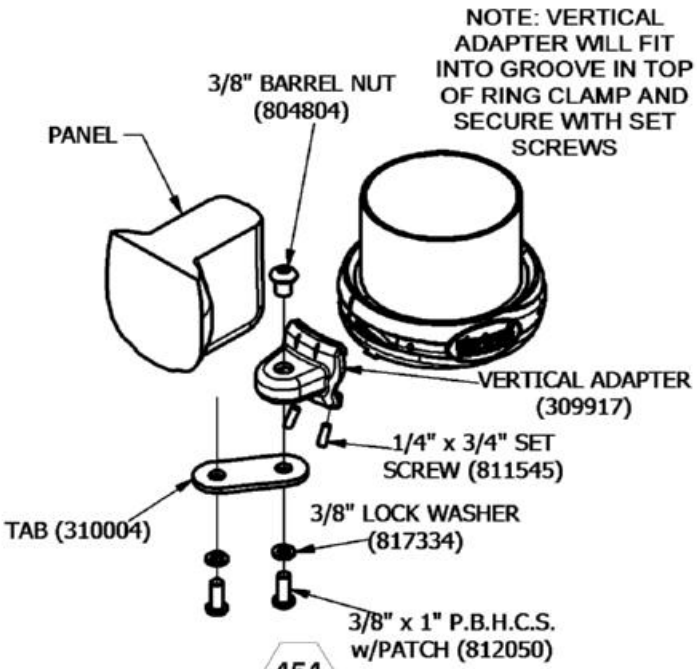
NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.

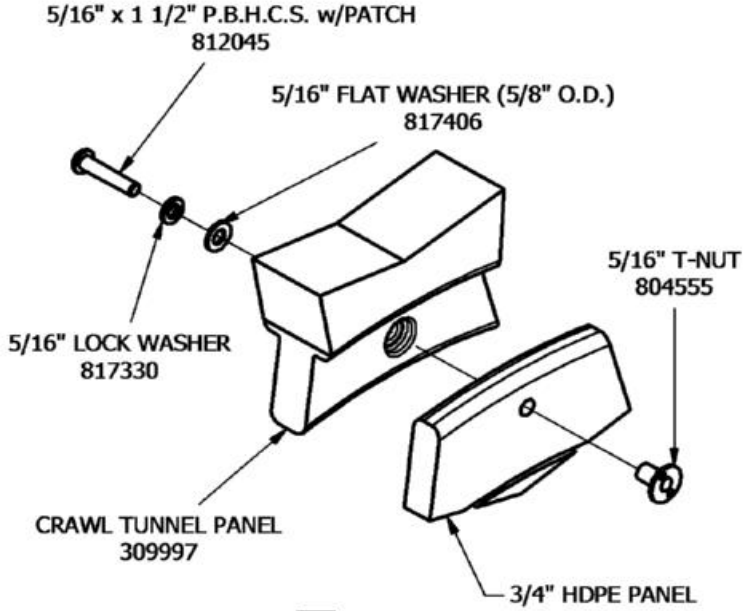


450

NOTE: VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



454



1212

SuperMax Play Systems

72106 FLARE BASE

Parts List		
DESCRIPTION	QTY	PART NUMBER
FLARE BASE	1	316575
HARDWARE COMPLETE	1	316577
1/4"-20 UNC X 2" TORX SELF TAP SS w/PATCH	4	HWS0306
1/4" FLAT WASHER (5/8" O.D.)	4	817408

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which upright is to receive the Tree Base Assembly. Refer to order Top View.

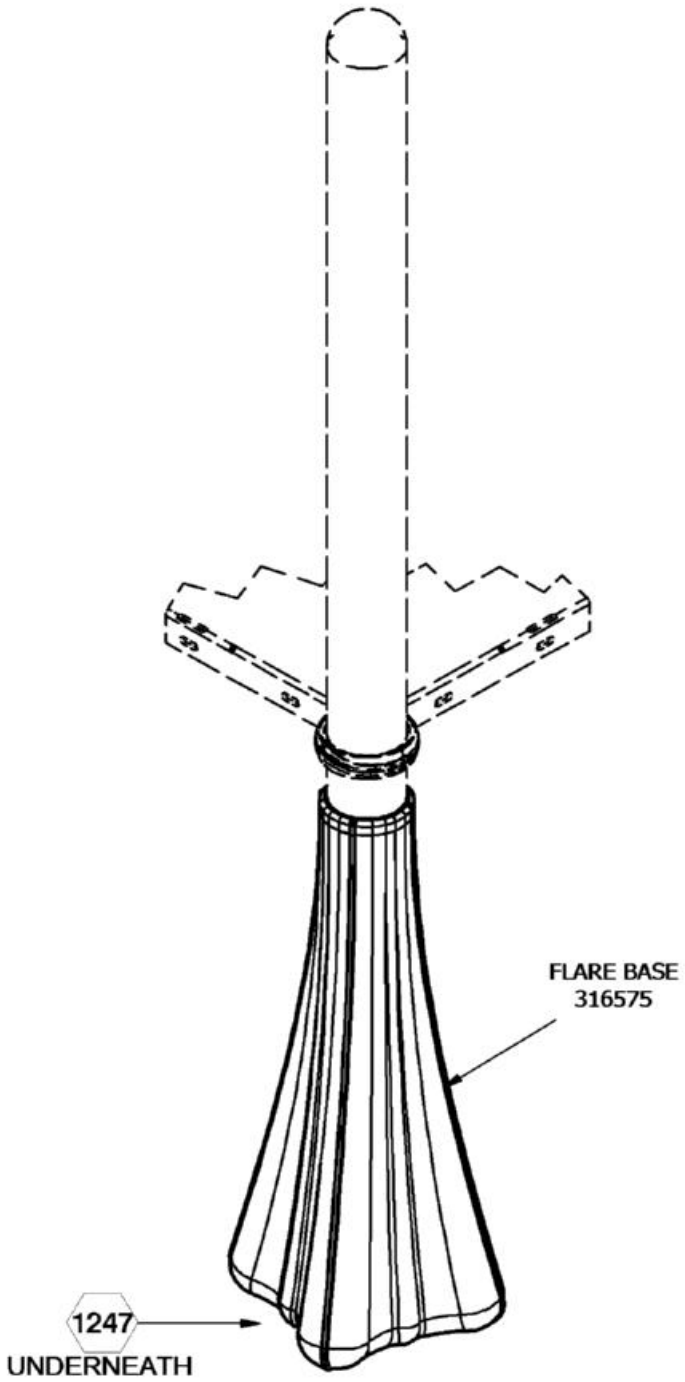
2. Slide Footer onto appropriate upright and fasten. See Detail 1247.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72106 FLARE BASE



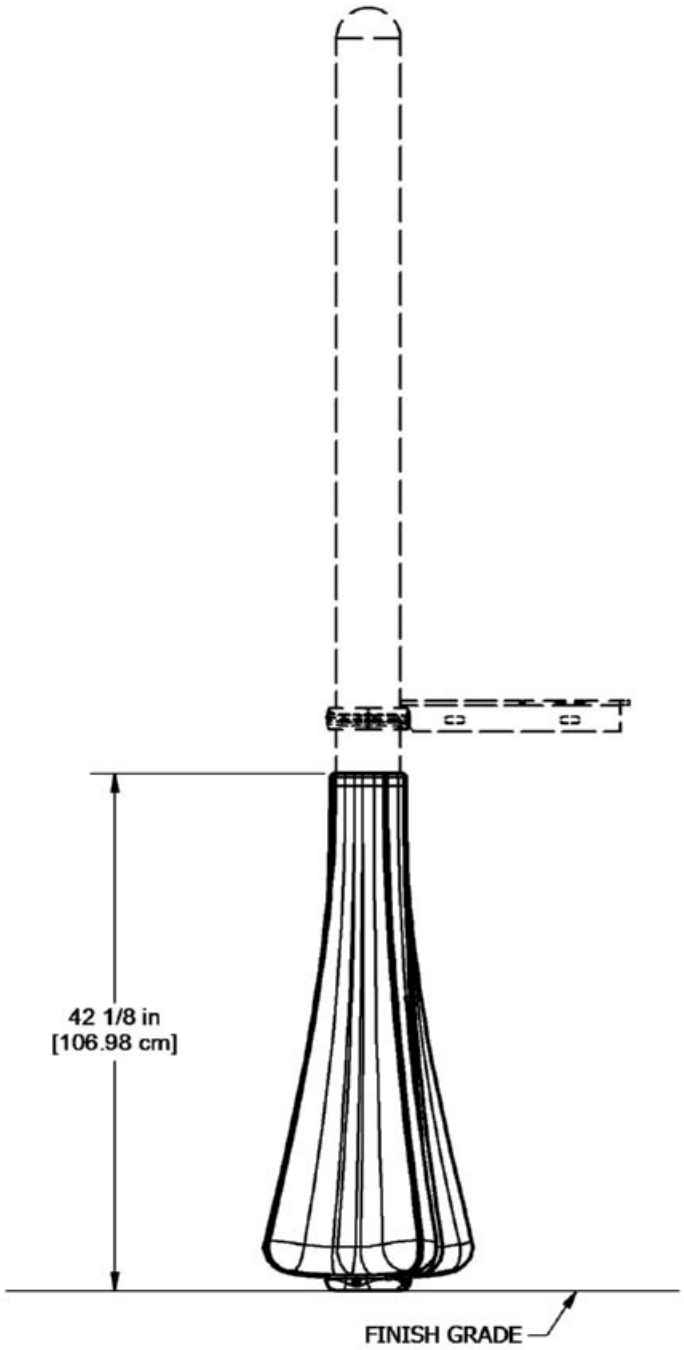
= INSTALLATION DETAIL

Issued/Revised: 5/24/2023

FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

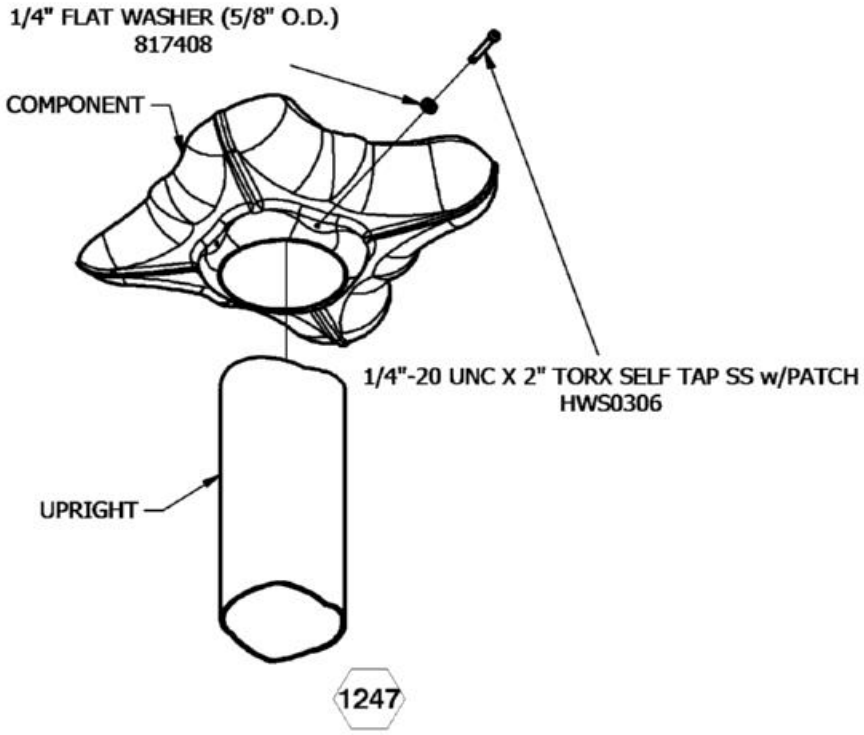
72106 FLARE BASE



Issued/Revised: 5/24/2023

ELEVATION VIEW

72106 FLARE BASE



SuperMax Play Systems

This equipment is designed for children 2-5 or 5-12 years old

72127 16" RISE, 4' SPAN ZEPHYR LINK

Parts List		
DESCRIPTION	QTY	PART NUMBER
PIPE ADAPTER	4	309915
PLATE L	4	316644
PLATE STRAIGHT	2	316646
ACCESSIBLE LINK BARRIER	2	316709
16x4 BOTTOM RAIL WELDMENT	1	316717
16x4 CONVEYOR	1	316719
16x4 TOP RAIL WELDMENT	2	316721
HARDWARE COMPLETE	1	316723
1/4" x 3/4" SET SCREW	8	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	34	812052
3/8" x 1" P.B.H.C.S. w/PATCH	16	812050
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	812054
3/8" LOCK WASHER	38	817334
3/8" FLAT WASHER	28	817410
3/8" FLAT WASHER (1 1/4" O.D.)	24	817424
3/8" T-NUT	16	804556
3/8" ACORN NUT	8	804002
3/8" BARREL NUT	22	804804
3/8" LOCK NUT	8	804353

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

72127 16" RISE, 4' SPAN ZEPHYR LINK

INSTALLATION INSTRUCTIONS:

1. Determine which decks are to receive the 16" rise, 4' span Accessible Link. Refer to order Top View.
2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the Deck. Be careful not to expose the steel.
3. Loosely attach Ring Clamps to uprights. Refer to the seperate Ring Clamp Installation sheet.
4. Attach the Accessible Link Barriers to the Ring Clamps. See Detail 448.
5. Attach the Accessible Link Barriers to the decks. See Detail 032.
6. Attach the 16x4 Conveyor to the 16x4 Bottom Rail Weldment using Plate L and Plate Straight. See Details 1082 and 1252.
7. Attach the 16x4 Bottom Rail Weldment to the Accessible Link Barriers. See Detail 1269.
8. Attach the 16x4 Top Rail Weldments to the Accessible Link Barriers. See Detail 1269.

IMPORTANT! **Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.**

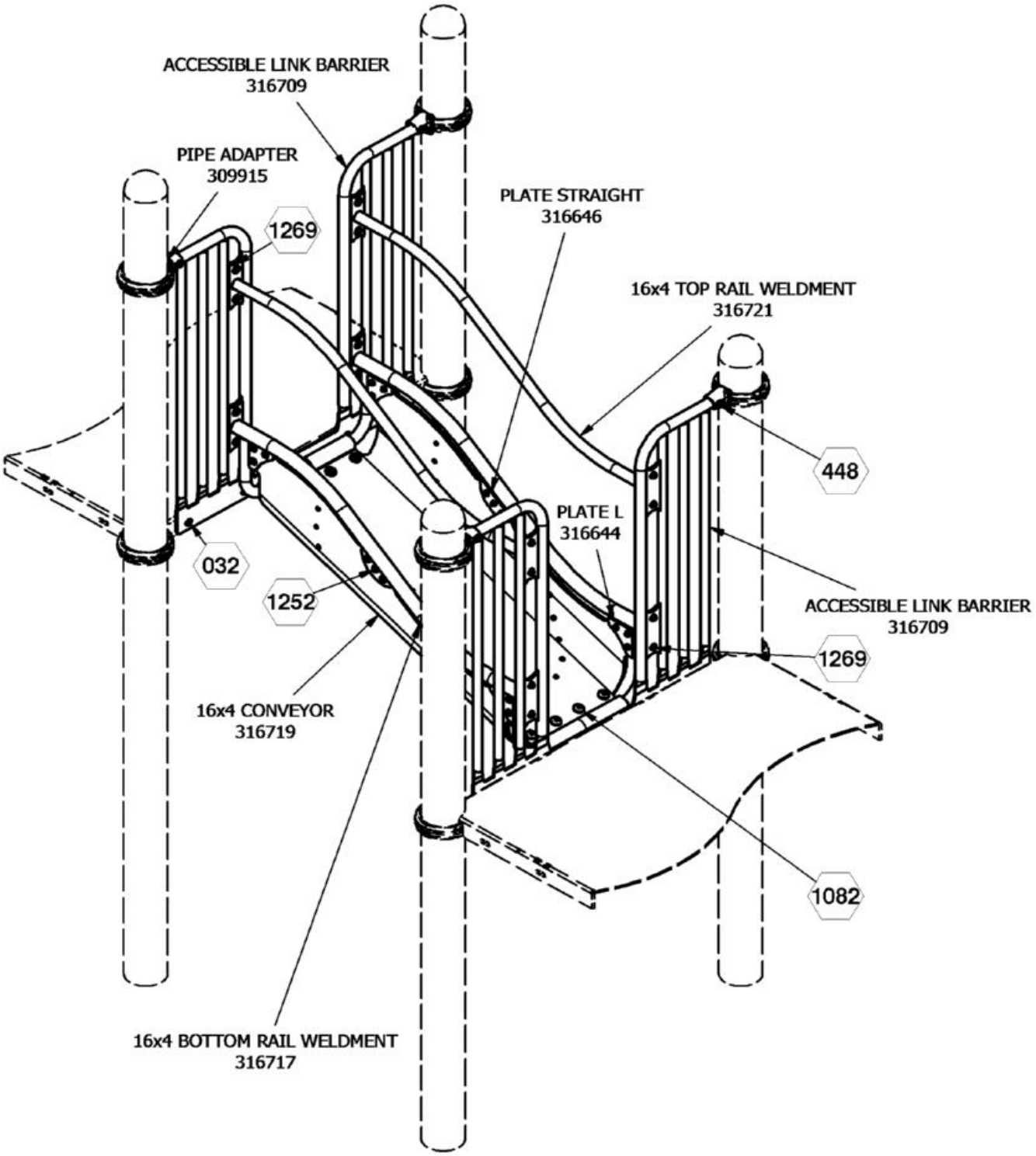
9. When structure is finished and satisfactory, tighten all fastener and install Drive Rivets in all clamps to ensure clamps cannot slide down the posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72127 16" RISE, 4' SPAN ZEPHYR LINK



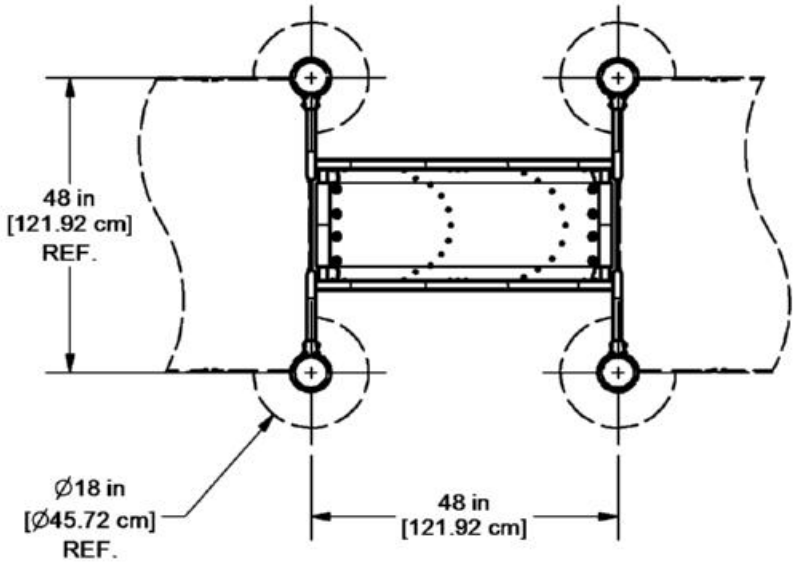
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

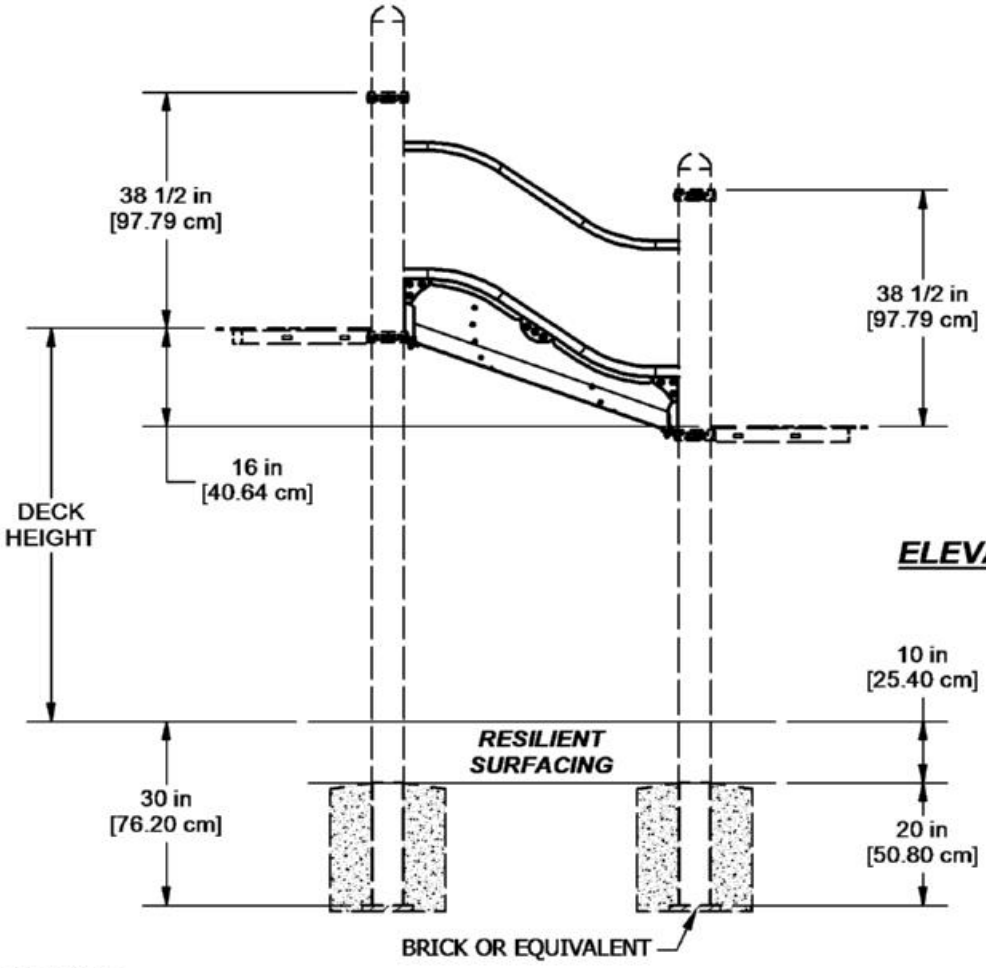
Issued/Revised: 10/6/2023

FINISHED ASSEMBLY

72127 16" RISE, 4' SPAN ZEPHYR LINK

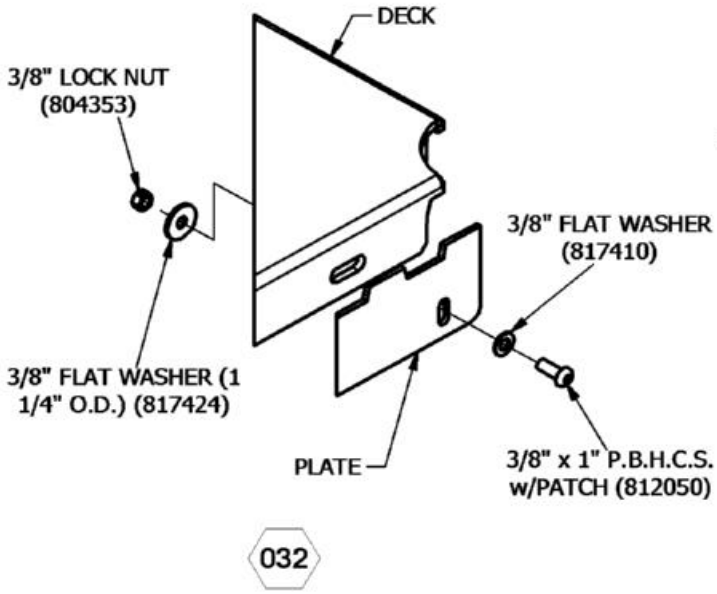


PLAN VIEW



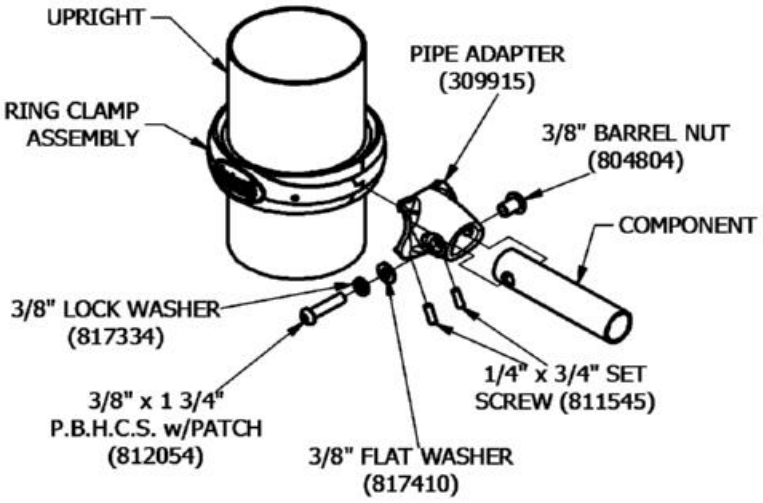
ELEVATION VIEW

72127 16" RISE, 4' SPAN ZEPHYR LINK

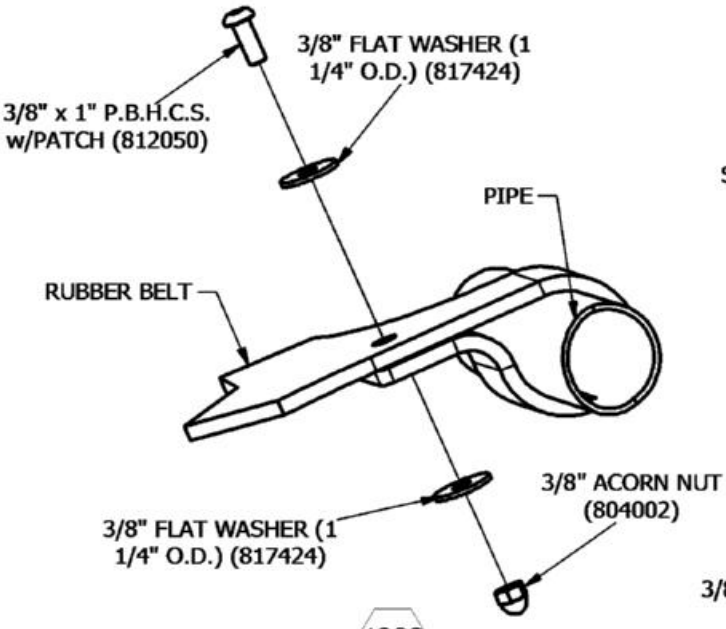


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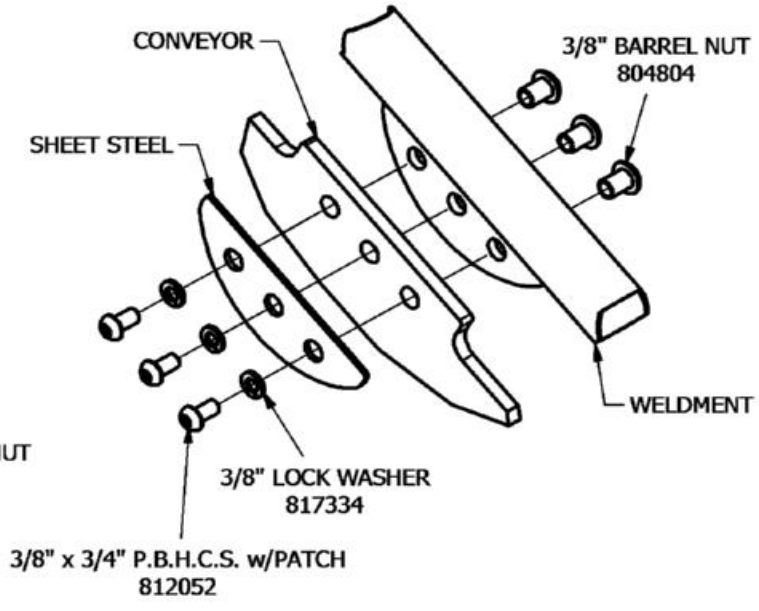
NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



448

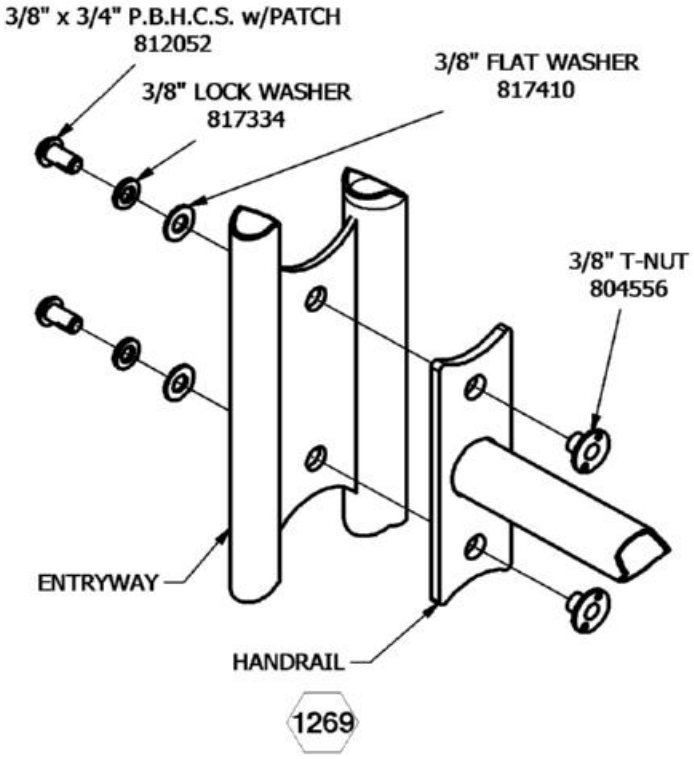


1082



1252

72127 16" RISE, 4' SPAN ZEPHYR LINK



SuperMax Play Systems

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

Parts List			
DESCRIPTION	72159	72160	PART NUMBER
10' SQUARE FABRIC PACKAGE	1	1	223002
CABLE CLAMPS	4	4	**
10' SQUARE SHADE FABRIC	1	1	**
3/16" CABLE, 50'-0" LG	1	1	**
10' RAFTER	4	4	223018
SHADE CROWN WELD ASSEMBLY	1	0	223039
SHADE CROWN WELD ASSEMBLY	0	1	223046
IN-GROUND EXTENSION	1	1	223118
GLIDE ELBOW	4	4	316306
HARDWARE COMPLETE	1	1	316969
1/4" x 1" SELF TAPPING TORX w/PATCH	8	8	HWS0021
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	8	8	HWS0081
1/2" x 4" HEX HEAD BOLT	4	4	801215
1/2" LOCKNUT	4	4	804355
1/2" ANCHOR ROD	2	2	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

INSTALLATION INSTRUCTIONS:

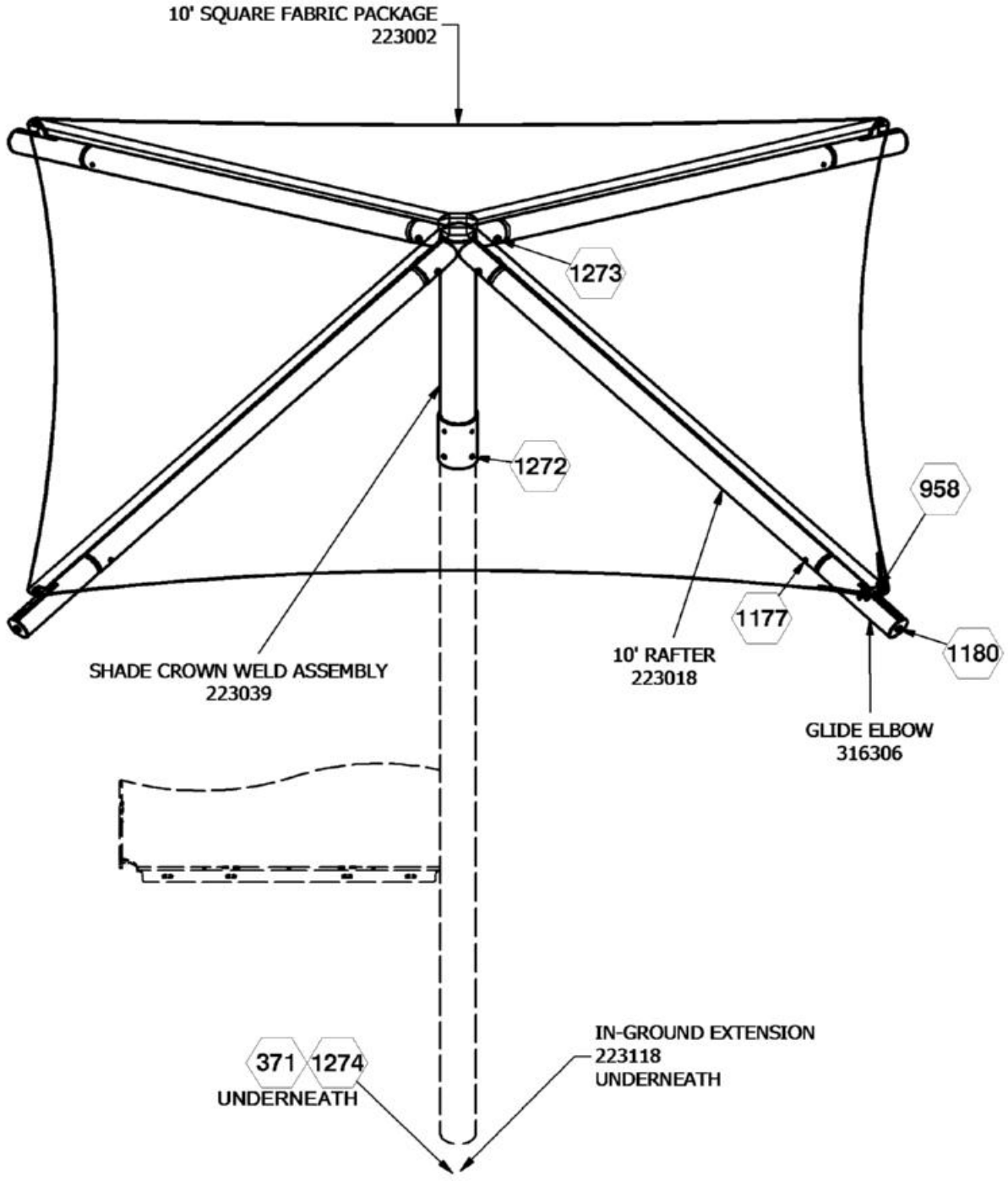
1. Determine which upright is to receive the 10' x 10' Shade. Refer to order Top View.
2. Put Anchor Rods into In-Ground Extensions. See Detail 371.
3. Attach the In-Ground Extension to the existing upright. See Detail 1274.
4. Attach the Shade Crown Weld Assembly to the existing upright. See Detail 1272.
5. Attach the Glide Elbows to the 10' Rafters. See Detail 956.
6. Attach the assembled rafters to Shade Crown Weld Assembly. See Detail 1273. **NOTE:** Orientation of hook on Glide Extension is critical.
7. Starting at any corner thread the steel cable through the jump-out hole under loop at the edge of the shade fabric until it comes out the end of the sleeve at the next corner. Continue threading cable through sleeve all the way around the shade fabric until the entire shade fabric has been encircled. Cable will exit through jump-out hole on the same corner it was started. Leave a loop of approximately 9 inches at each non-tensioning corner. Spread the shade fabric over the frame and secure corners to the Glide Hooks. It may be necessary to flap the loose corners up and down to stretch the shade fabric so that it fits over the Glide Hooks. **NOTE:** The Steel Cable must always pass under the Glide Hooks. See Detail 958.
8. Pull tight by hand then using the clamps provided, fasten the steel cables together. All clamps must be used. After clamps are tightened, thread the excess steel cable back into the jump-out holes in the shade fabric. **NOTE:** If any portion of the steel cable was bent/kinked during the tensioning process, it must be straightened by bending the steel cable back in the opposite direction of the bend. **NOTE:** Cable clamp must be installed with nuts facing down. Clamps must be touching each other. **NOTE:** Any bolt end protruding more than two full threads beyond face of the nut promptly cut-off flush, file smooth, and treat to prevent corrosion. See Detail 958.
9. Remove Cover Plate from Glide Insert to access tensioning nut. Take turns tensioning each Glide Insert in small increments. Make sure that the steel cables cross each other at the corner where the steel cable ends. DO NOT OVER TENSION! You can test the tightness of the shade fabric by hitting the perimeter steel cable with the palm of your hand to see how much it moves. If the shade fabric does not move more than 6" up or down then you have the correct tension. If the shade fabric bounces and has a ripple affect then you may need to apply more tension. Attach Cover Plate to Glide Insert. See Detail 957.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'



⬡ = INSTALLATION DETAIL

Issued/Revised: 11/2/2023

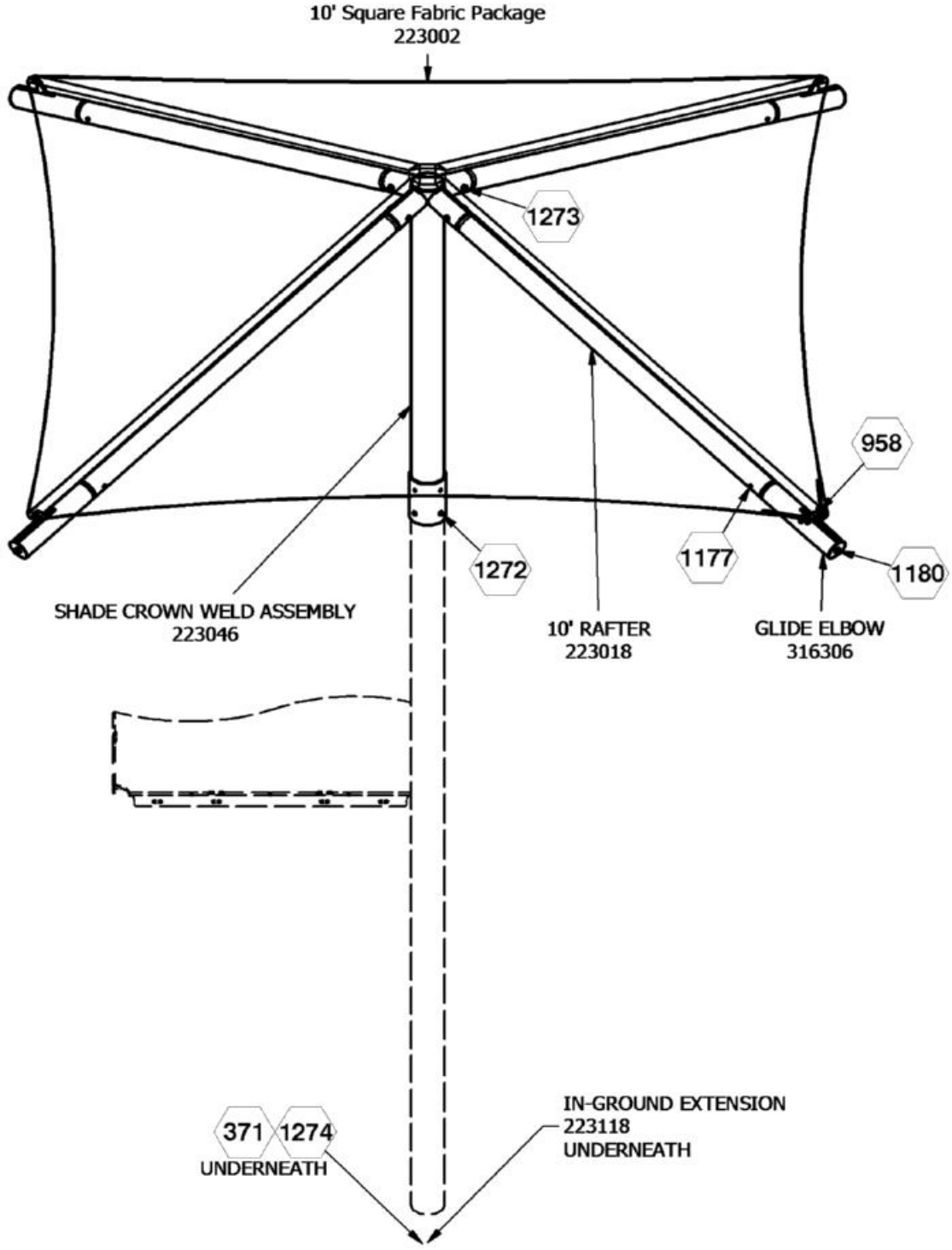
FINISHED ASSEMBLY

4'-0" SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

SuperMax Play Systems

72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'



⬡ = INSTALLATION DETAIL

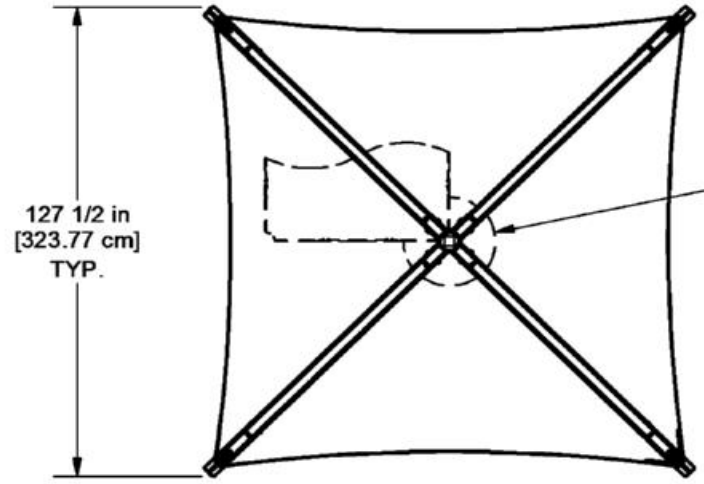
Issued/Revised: 11/2/2023

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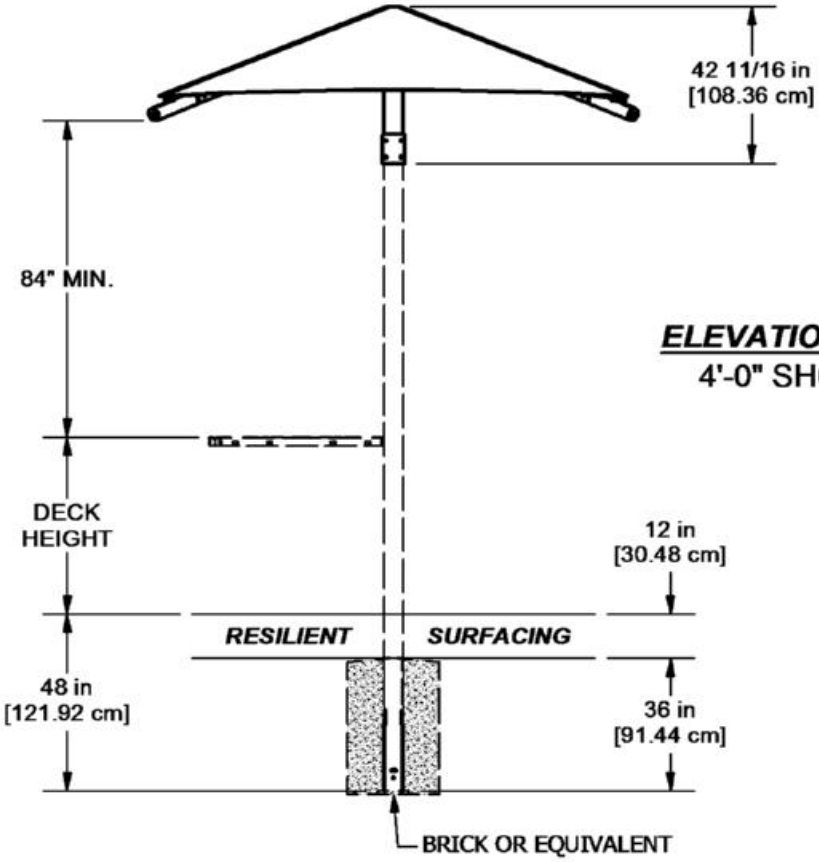
6'-8" SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'



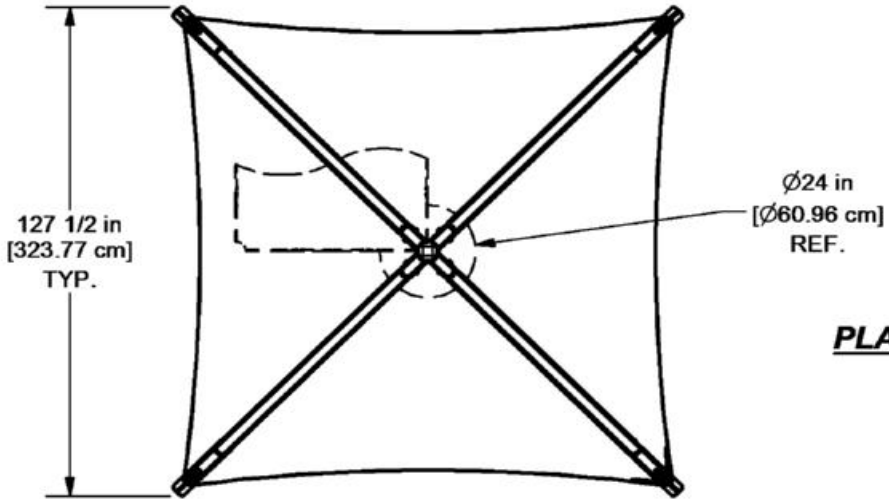
PLAN VIEW



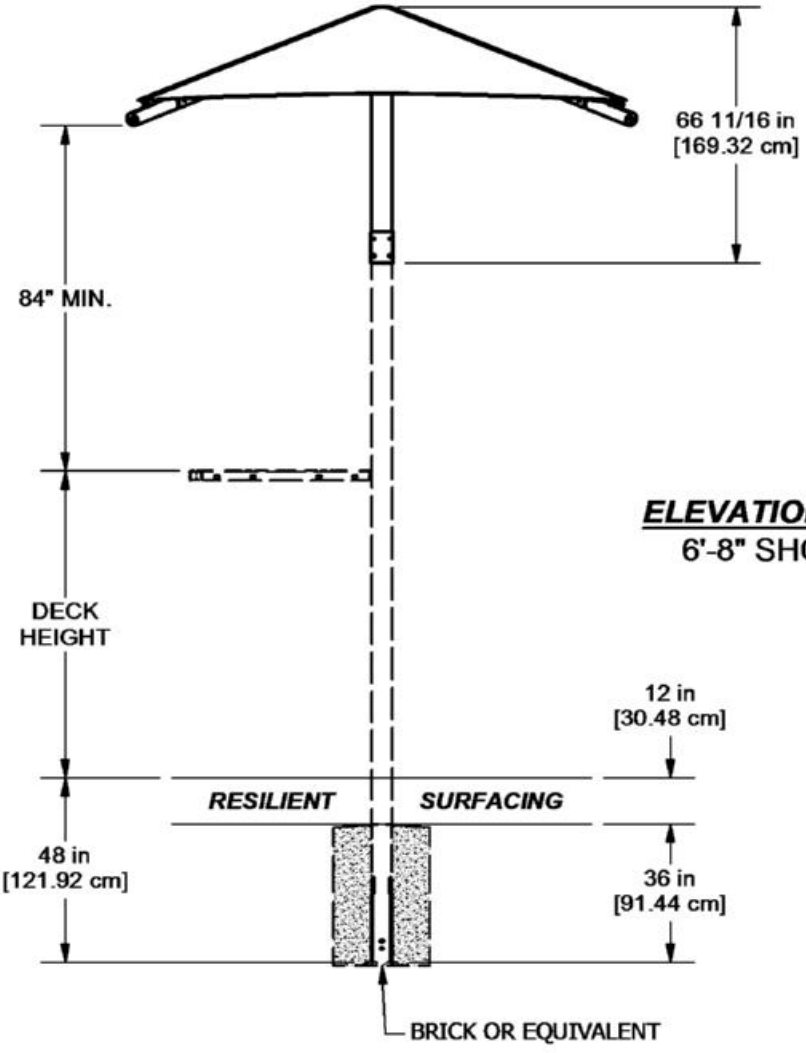
ELEVATION VIEW
4'-0" SHOWN

SuperMax Play Systems

72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

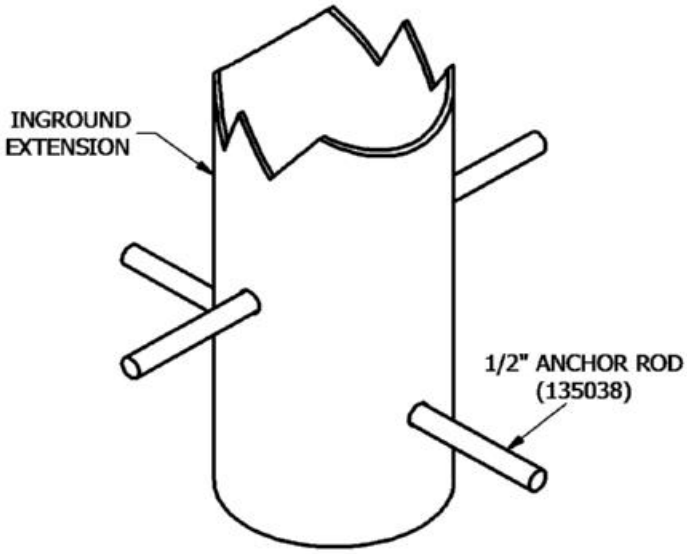


PLAN VIEW



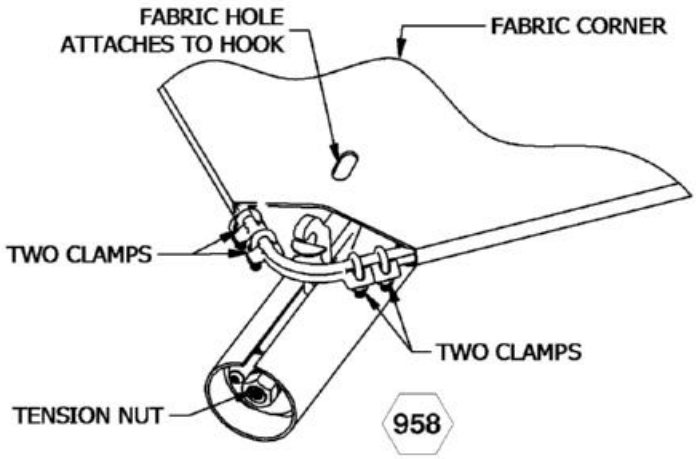
ELEVATION VIEW
6'-8" SHOWN

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'



371

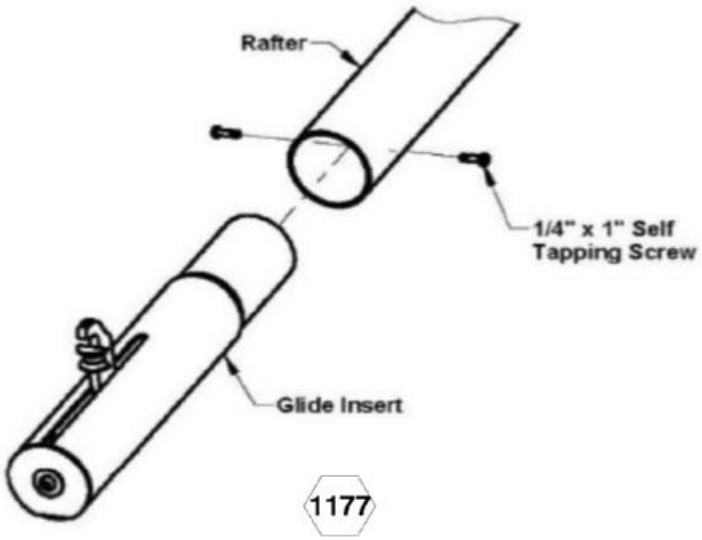
SMALLER GLIDE INSERTS WILL NOT HAVE A CABLE GUIDE ON THE GLIDE HOOK. THE CABLE FOLLOWED BY THE FABRIC HOLE ARE BOTH PLACED OVER THE HOOK.



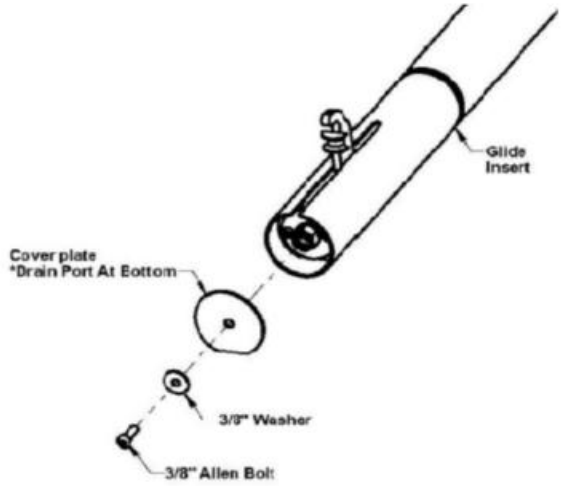
958

NOTE: ON THREE OF THE FOUR CORNERS THE CABLE WILL LOOP AROUND THE HOOK OR CABLE GUIDE.

ON THE FOURTH CORNER THE CABLE ENDS WILL OVERLAP AROUND THE HOOK OR CABLE GUIDE AND BE SECURED WITH TWO CABLE CLAMPS ON EITHER SIDE. THE FABRIC HOLE IS THEN PULLED OVER HOOK. LOOSE CABLE END ARE TO BE TUCKED BACK INTO FABRIC HEMS.

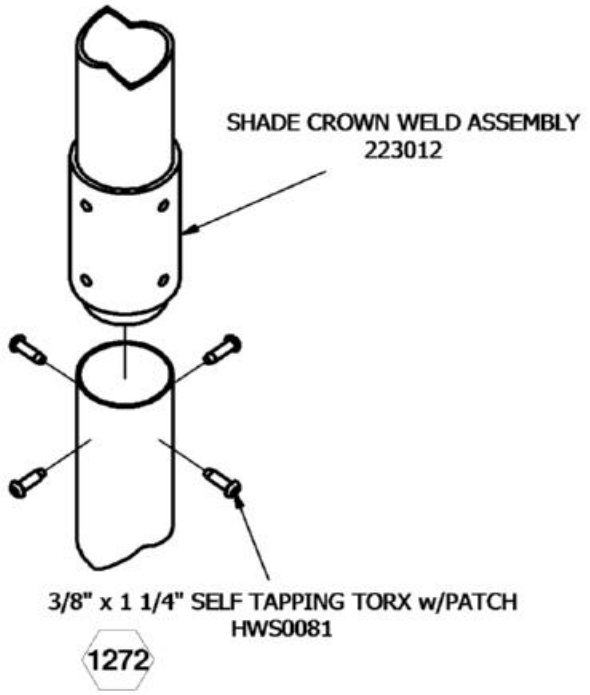


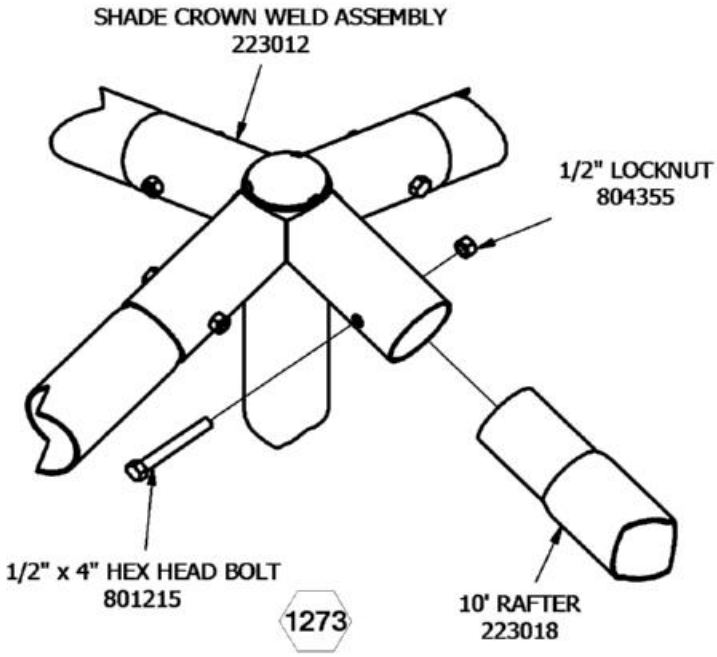
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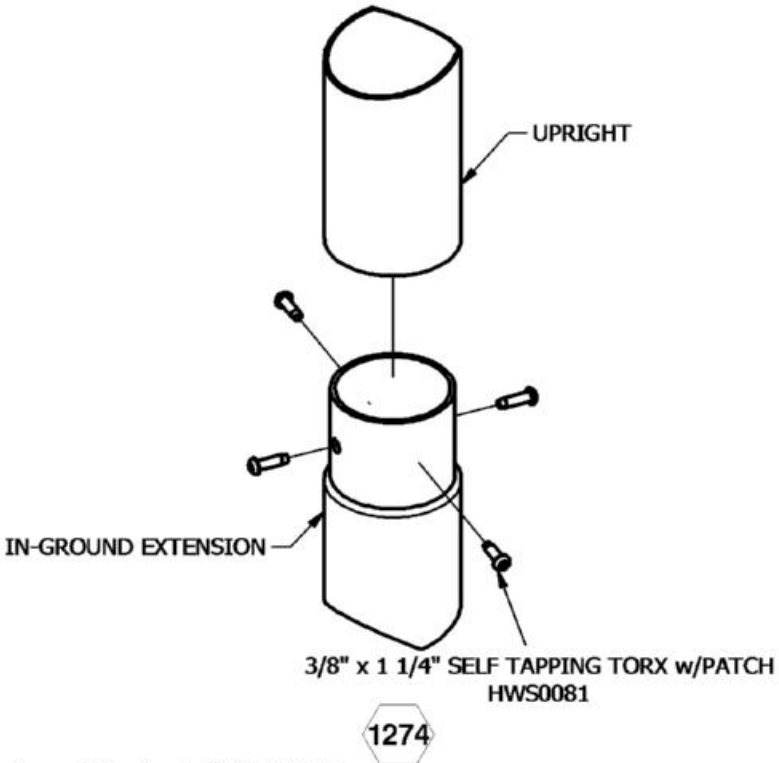


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72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'







Issued/Revised: 11/2/2023

SuperMax Play Systems

71361 Luminous Ascent

Parts List		
DESCRIPTION	QTY	PART NUMBER
3 1/2" DOME CAP	2	212995
LARGE CLIMBING WALL	1	305756
LONG TUBE ATTACHMENT	1	306329
FORMED LONG STRAIGHT PLATE	1	306577
BIG ROPE	1	308691
PIPE ADAPTER	2	309915
PANEL ADAPTER	2	309919
STRATASCEND WALL	1	309026
EXTENSION PIPE	3	309046
MIDDLE SUPPORT PIPE	1	309050
BOTTOM SUPPORT PIPE	1	309053
OVERHEAD w/8" ROUNDS ASSEMBLY	1	309128
SAIL WALL CURVED UPRIGHT	1	309189
SAIL WALL w/BUTTON	1	309202
TOP CABLE	1	309260
STRATASCEND CLIMBER	1	309292
OFFSET ENTRY ARCHWAY	1	310071
BUTTON STEP	1	315509
FOOTBUCK 10"	1	316196
MOUNTING PLATE	3	309279
HARDWARE COMPLETE	1	312814
3/16" x 13/32" DRIVE RIVET	4	805366
1/4" x 3/4" SET SCREW	8	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	3	812052
3/8" x 1" P.B.H.C.S. w/PATCH	7	812050
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	11	812054
3/8" x 2" P.B.H.C.S. w/PATCH	11	812055
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	3	812057
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	3	812058
3/8" x 3 1/2" P.B.H.C.S. w/PATCH	6	812075
3/8" FLAT WASHER	32	817410
3/8" FLAT WASHER (1 1/4" O.D.)	13	817424
3/8" LOCK WASHER	6	817334
3/8" BARREL NUT	27	804804
3/8" LOCK NUT	1	804353
PLASTIC WASHER	9	304073
PLASTIC CAP	9	304074
RUBBER PAD	3	309010
1 1/8" NYLON WASHER	8	309362

71361 Luminous Ascent

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Luminous Ascent. Refer to your Top View drawing for location. Dig footing holes at locations & depths shown in Elevation View.
2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from any holes to be used on deck. Be careful not to expose the steel.
3. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.
4. Slip the Pipe Adapters onto the Offset Archway attachment pipes and connect. See Detail 448.
5. Place the tab at the bottom of the Offset Archway into the slot on the deck. Then, hook the Pipe Adapters onto the Ring Clamps and attach. See Detail 448. **NOTE:** Make sure Offset Archway opening is on the correct side of deck.
6. Attach Offset Archway tab to hole in side of deck. See Detail 026.
7. Hook Panel Adapters onto Ring Clamps and connect. See Detail 463.
8. Attach Straight Support Tubes to Formed Support Plates. See Detail 073.
9. Using Detail 054, attach Straight Support to Climbing Wall.
10. Attach Support to Panel Clamp. See Detail 463.
11. Attach Sail Wall Curved Upright to Sail Wall w/Button. See Detail 356.
12. Attach Sail Wall Curved Upright Assembly to Climbing Wall. See Detail 364, and specific Climbing Wall installation sheets.
13. Attach Mounting Post to Button Step. See Detail 259.
14. Locate the Top Cable & Big Rope. Using Detail 355, attach each Clevis to the correct tabs. Refer to Elevation and Plan Views for location. **NOTE:** 1 1/4" O.D. Nylon Washer must be on each side of tab.
15. Attach Overhead w/8" Rounds Assembly to Upright. See Detail 356.
16. Attach Mounting Plate to Stratascend. See Detail 360.
17. Attach Stratascend to Stratascend Wall, Middle Support and Bottom Support. See Detail 361.
18. Attach Curved Upright Assembly to Climbing Wall. See Detail 364 and specific Climbing Wall installation sheets.
19. Attach Right and Left Side Uprights to Curved Upright Assembly. Refer to Detail 350.
20. Locate the Aura. See Detail 354.
21. Attach Caps to Sail Wall Uprights. See Detail 597.
22. Attach Cables to Aura using Detail 355. Refer to Finished Assembly for correct Cable location.

71361 Luminous Ascent

23. Attach Assembled Aura to Left and Right Side Uprights using Detail 355. Note: Nylon Washer must go on each side of tab.

24. When the entire assembly is plumb and level, tighten all fasteners. Pour concrete footings within 4" of the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

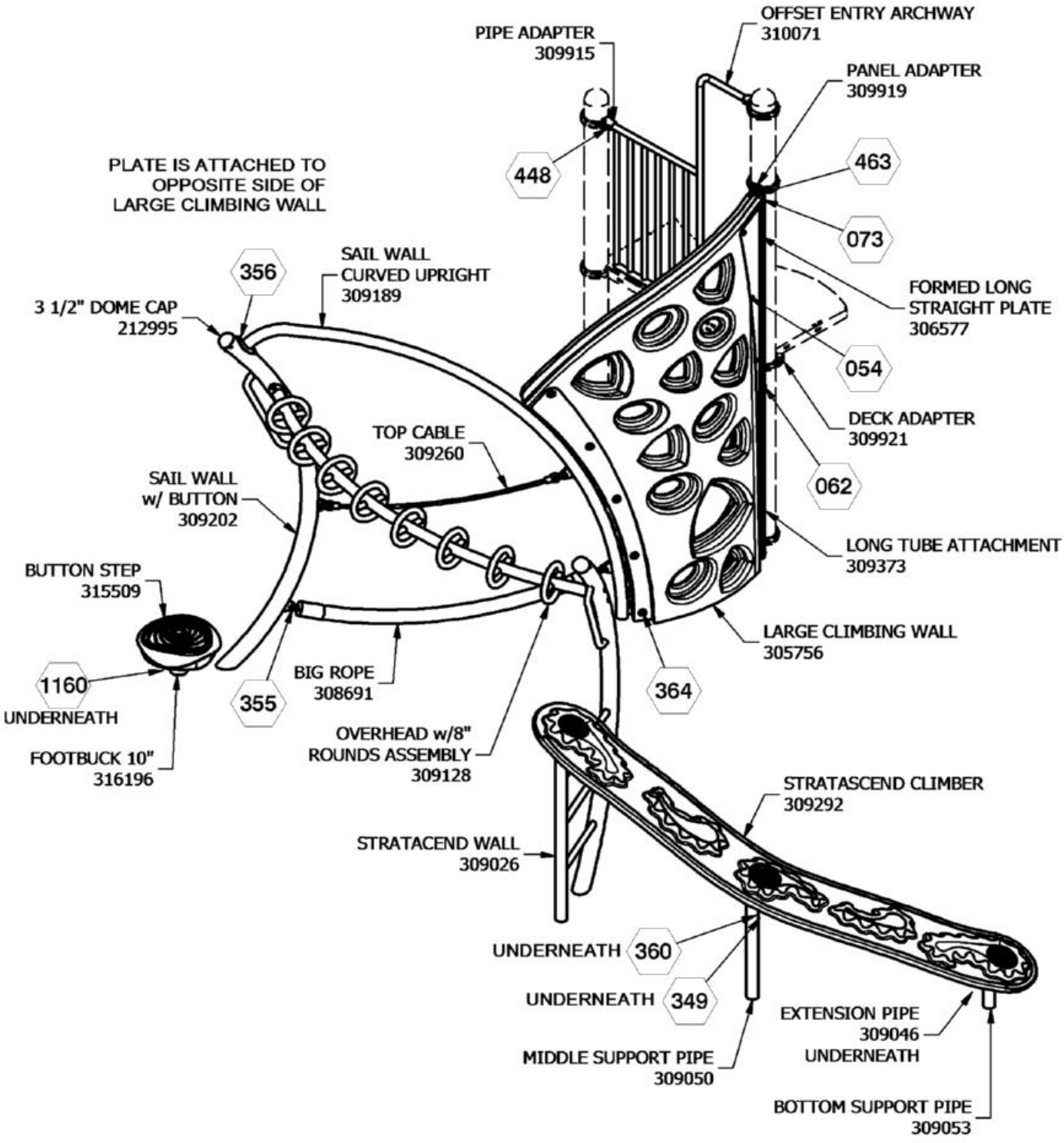
25. When structure is finished and satisfactory, tighten all fastener and install Drive Rivets in all clamps to ensure clamps cannot slide down the posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

71361 Luminous Ascent



= INSTALLATION DETAIL

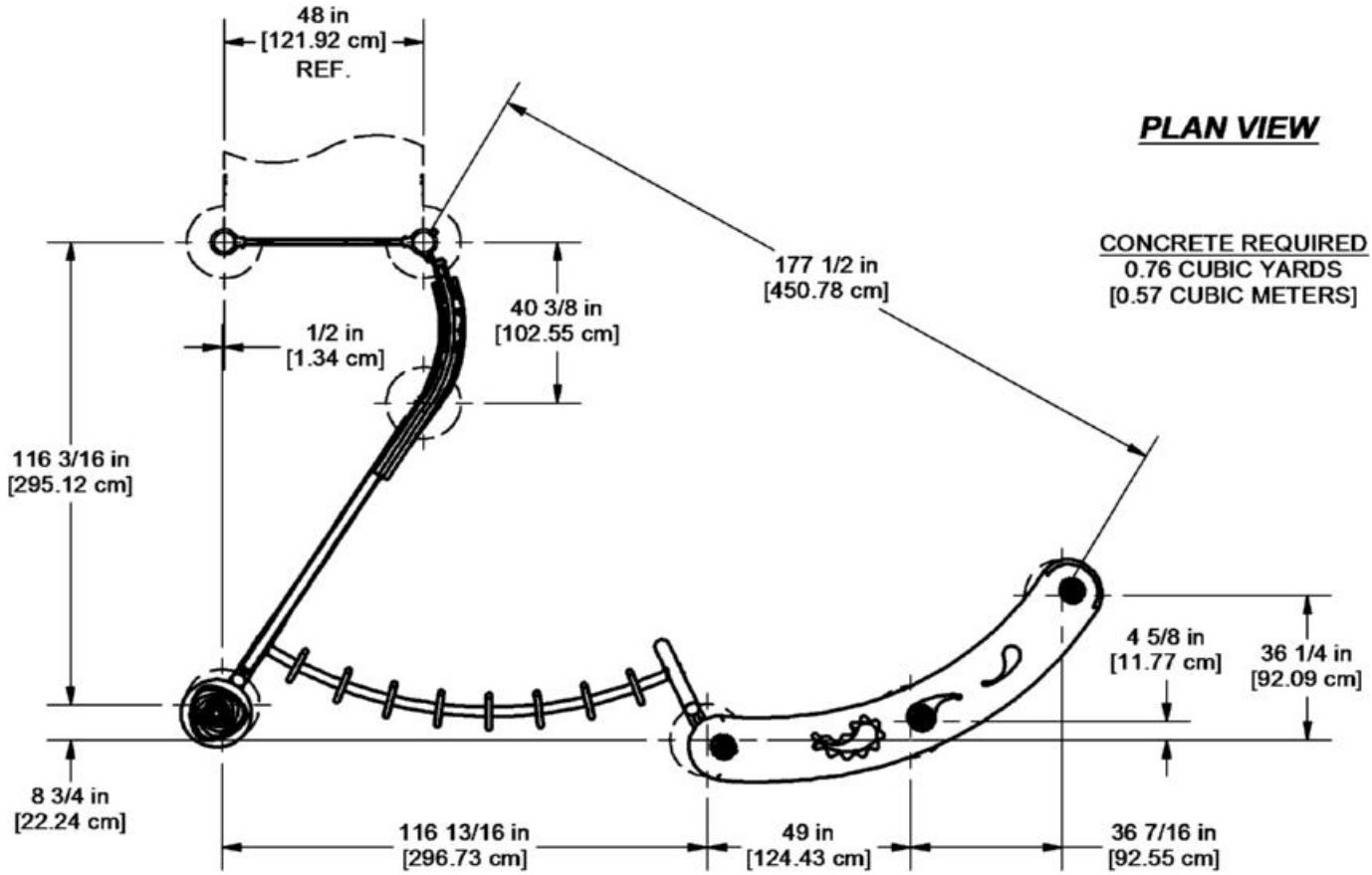
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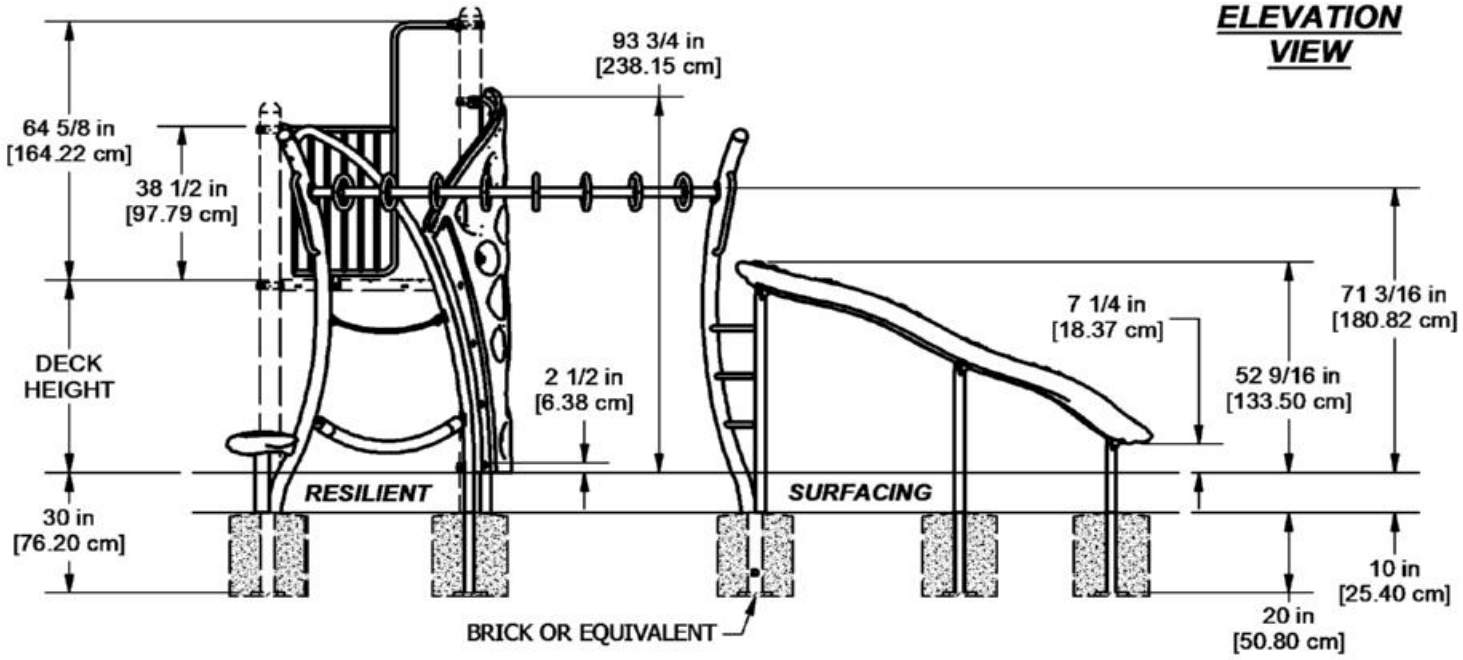
FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

SuperMax Play Systems

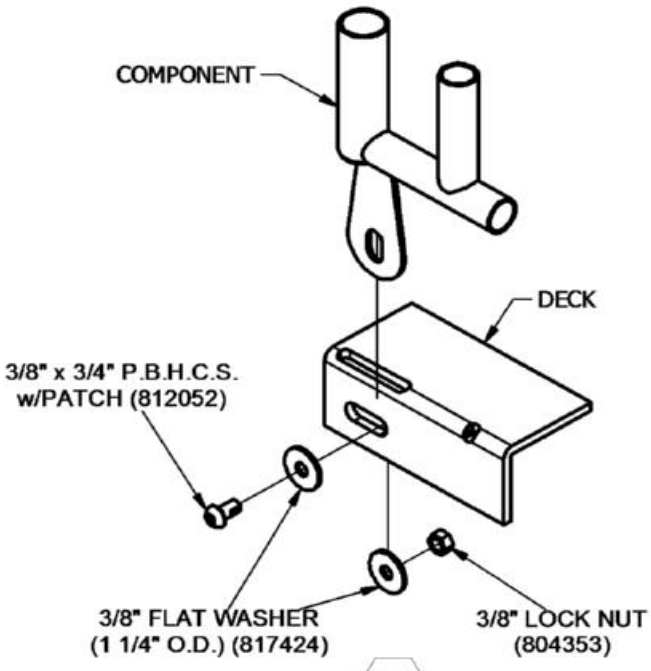
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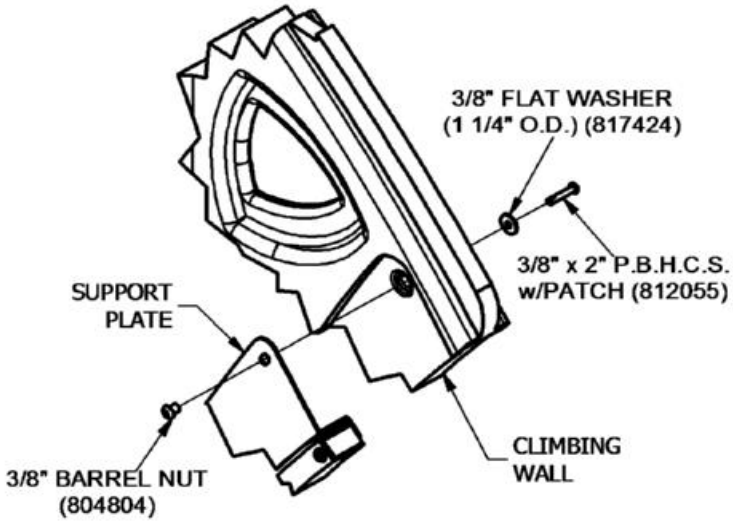


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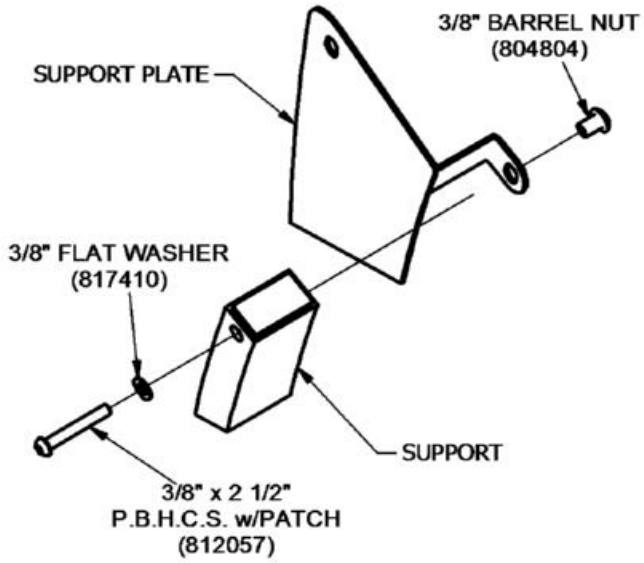
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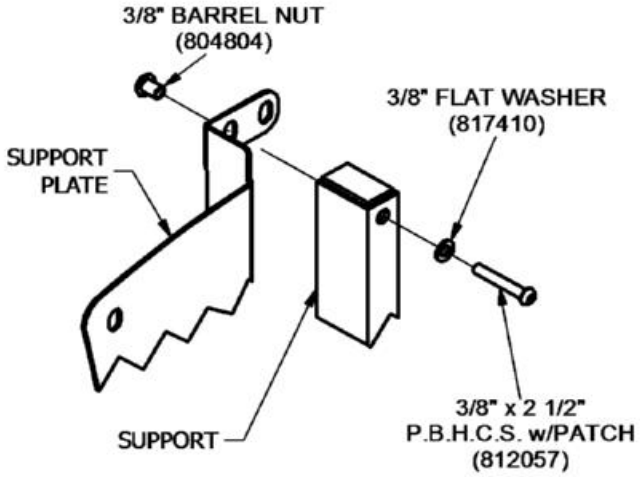
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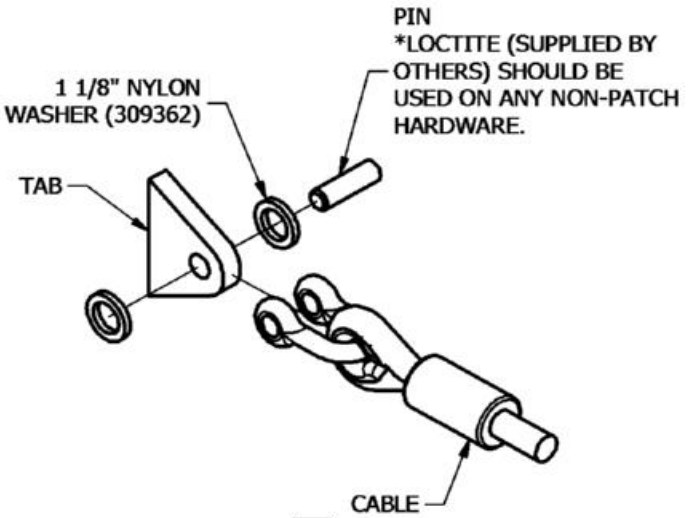


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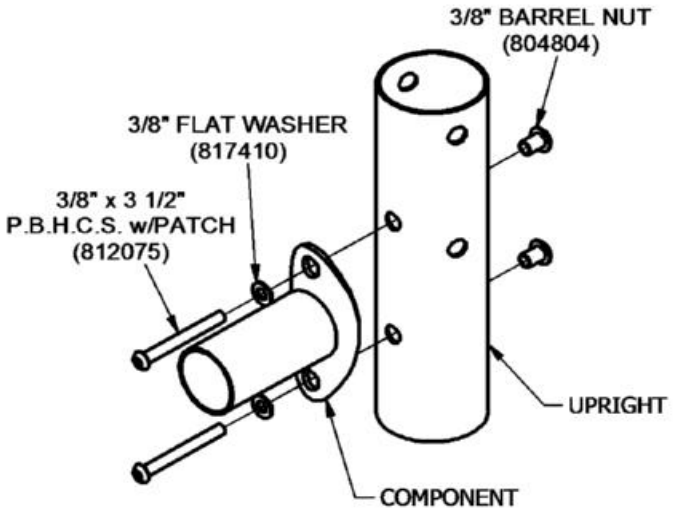


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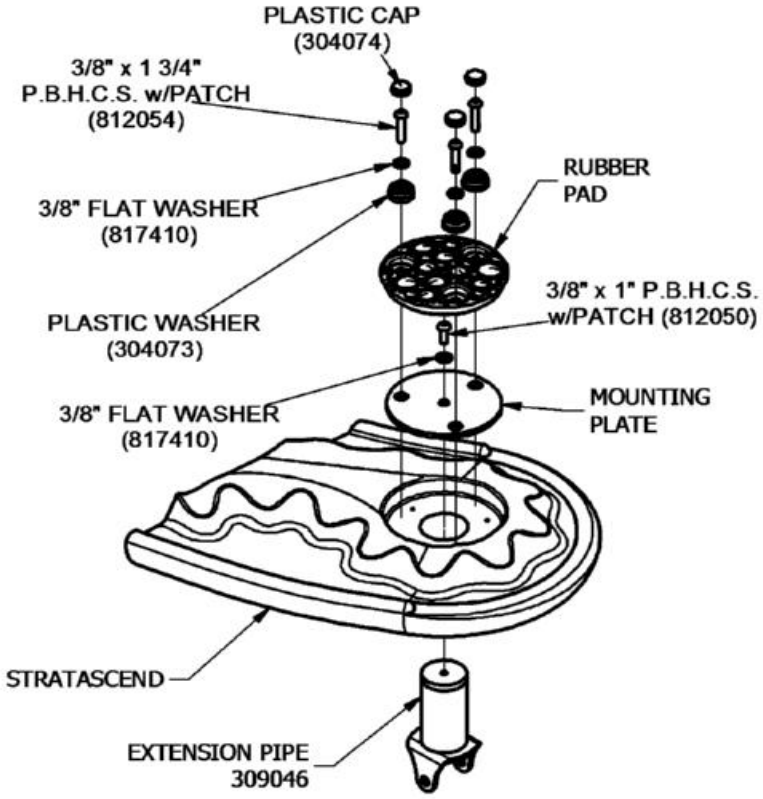
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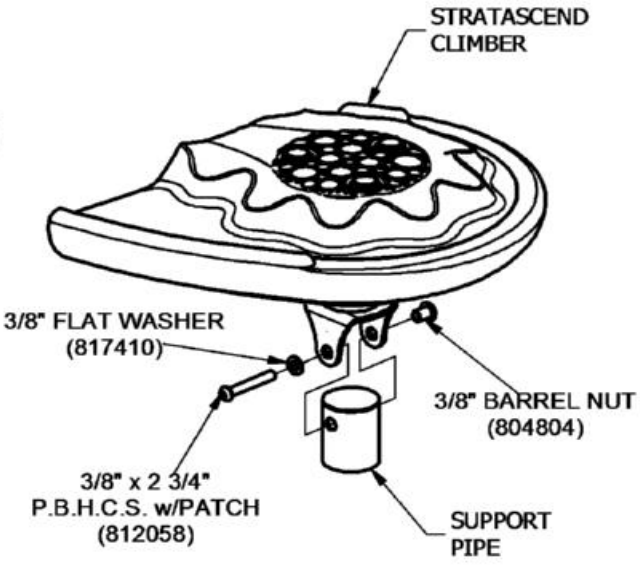
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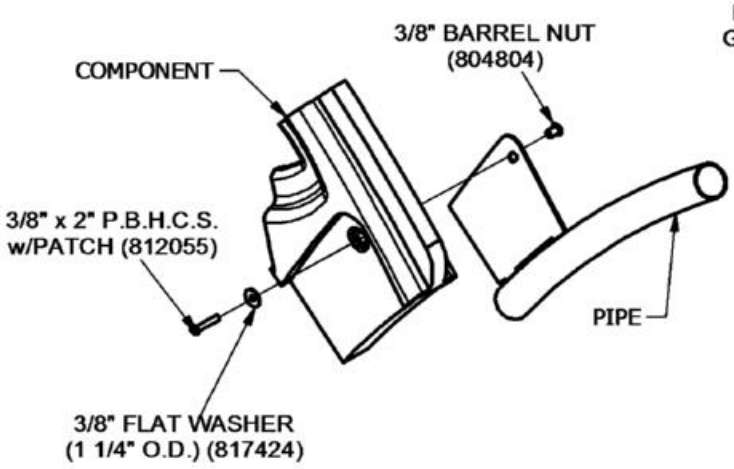


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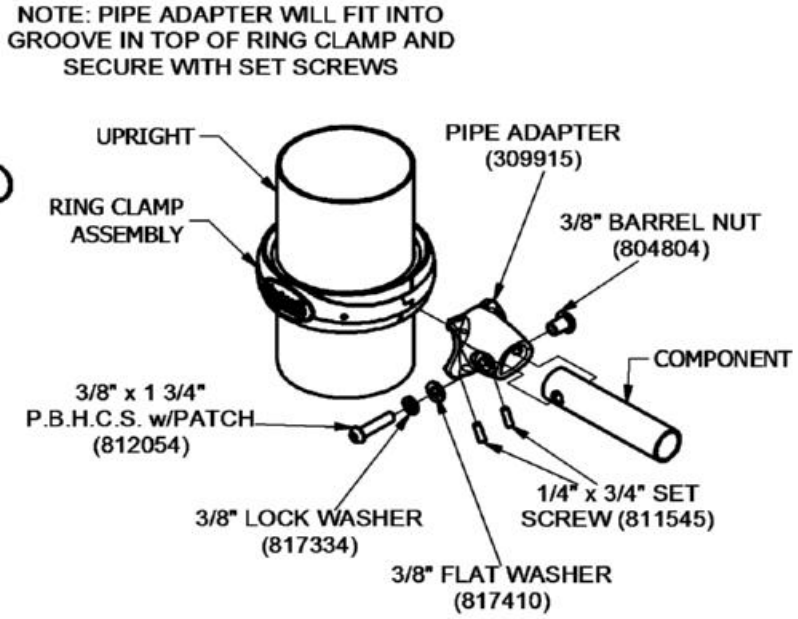


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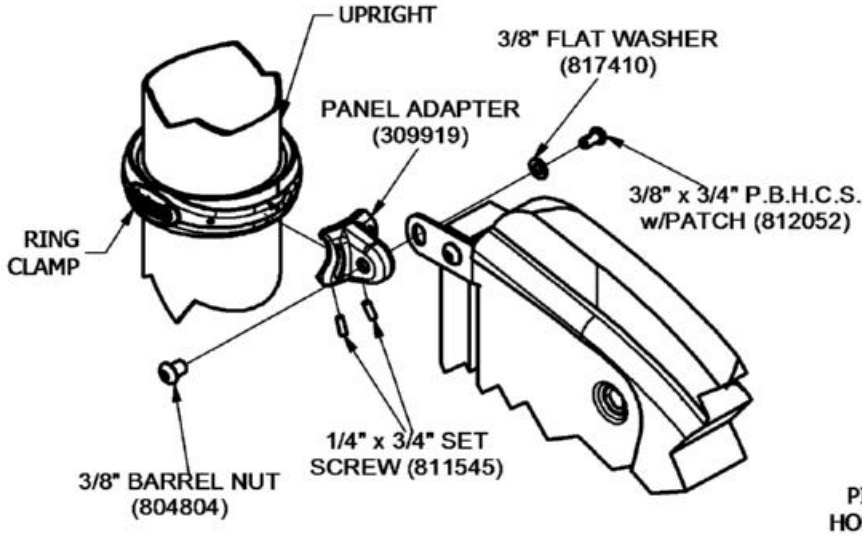
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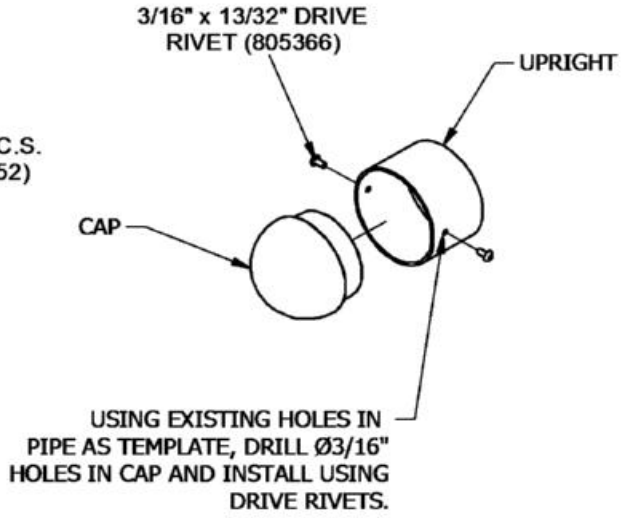
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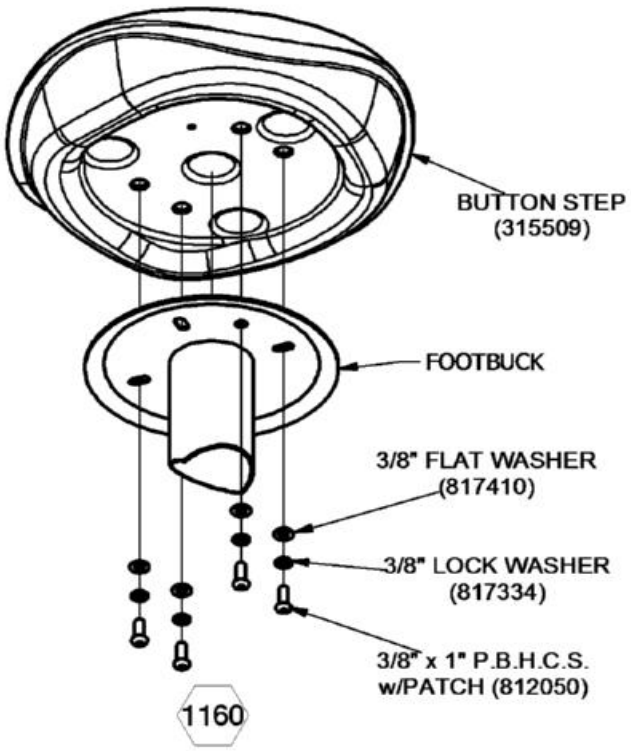


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71361 Luminous Ascent



Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" =1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Cassie Pruitt
Date:
9/16/24
Quote Number:
821-170069A

play&park structures
A PLAYCORE Company
544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

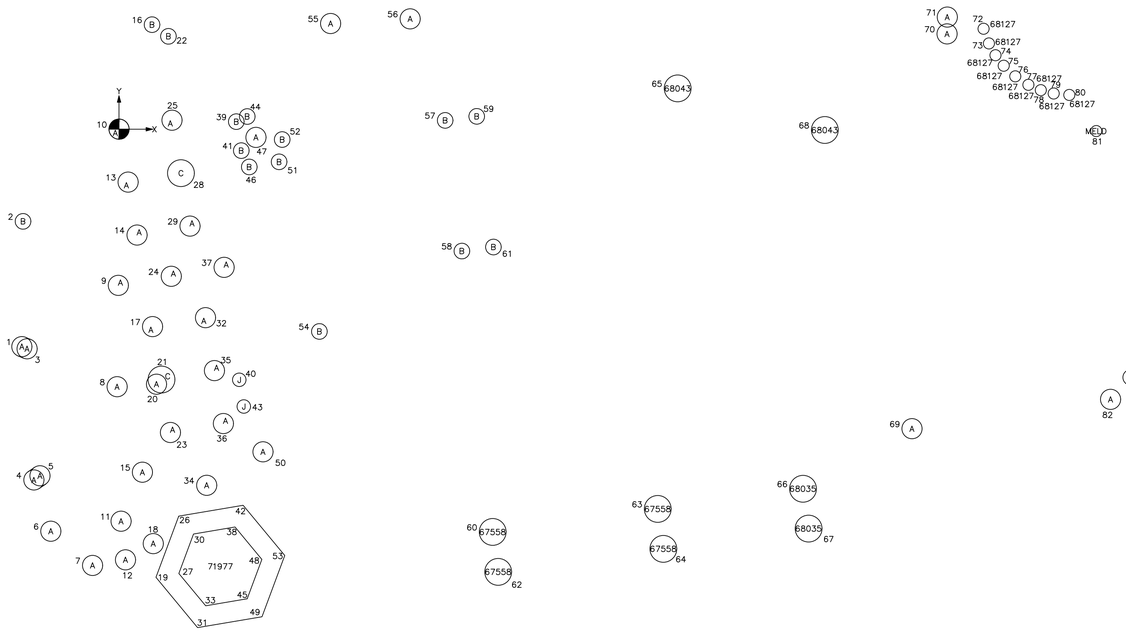
Total Play Components	29		
Elevated Play Components	9		
Elevated Play Components Accessible by Ramp	0	Req.	0
Elevated Components Accessible by Transfer	7	Req.	5
Accessible Ground Level Components Shown	20	Req.	3
Different Types of Ground Level Components	5	Req.	3

User Capacity
95-100
Critical Fall Height
8'-0"

SUPERmax PLAY SYSTEMS
ultraPLAY A PLAYCORE Company

Order 4268620

ISO 9001 CERTIFIED



FOOTINGS ORDINATE TABLE			
HOLE	X	Y	DIAG
1	-7'-3"	-16'-2 1/2"	17'-9"
2	-7'-2"	-6'-10 1/2"	9'-11"
3	-6'-10 1/2"	-16'-4 1/2"	17'-9"
4	-6'-4 1/2"	-26'-2"	26'-11"
5	-5'-11"	-25'-10"	26'-6"
6	-5'-1"	-29'-11 1/2"	30'-4 1/2"
7	-2"	-32'-6"	32'-7"
8	-2"	-19'-2 1/2"	19'-2 1/2"
9	-1/2"	-11'-7 1/2"	11'-7 1/2"
10	0"	0"	0"
11	2"	-29'-2 1/2"	29'-2 1/2"
12	5 1/2"	-32'-1"	32'-1"
13	8"	-3'-11 1/2"	4'
14	1'-4"	-7'-10 1/2"	8'
15	1'-9"	-25'-7"	25'-7 1/2"
16	2'-5 1/2"	7'-9 1/2"	8'-2"
17	2'-6"	-14'-8 1/2"	14'-11"
18	2'-6 1/2"	-30'-10 1/2"	31'
19	2'-9"	-33'-5"	33'-6"
20	2'-9 1/2"	-19'	19'-2 1/2"
21	3'-2"	-18'-8"	18'-11"
22	3'-8"	6'-11"	7'-10"
23	3'-10"	-22'-7 1/2"	22'-11"
24	3'-10 1/2"	-10'-11 1/2"	11'-7 1/2"
25	3'-11 1/2"	8"	4'
26	4'-5 1/2"	-28'-10"	29'-2"
27	4'-5 1/2"	-33'-1 1/2"	33'-5"
28	4'-7 1/2"	-3'-3 1/2"	5'-8"
29	5'-3 1/2"	-7'-2 1/2"	8'-11 1/2"
30	5'-6 1/2"	-30'-2"	30'-8"
31	5'-10 1/2"	-37'-2"	37'-7 1/2"
32	6'-5 1/2"	-14'-0 1/2"	15'-5 1/2"
33	6'-5 1/2"	-35'-6 1/2"	36'-1 1/2"
34	6'-6 1/2"	-26'-6 1/2"	27'-4"
35	7'-1 1/2"	-18'	19'-4"
36	7'-9 1/2"	-21'-11 1/2"	23'-3 1/2"
37	7'-10"	-10'-3 1/2"	12'-11 1/2"
38	8'-7 1/2"	-29'-8"	30'-10 1/2"
39	8'-9"	6 1/2"	8'-9"
40	8'-11 1/2"	-18'-8"	20'-8 1/2"
41	9'-1"	-1'-7"	9'-3"
42	9'-3"	-28'-0 1/2"	29'-6"
43	9'-3 1/2"	-20'-8"	22'-8"
44	9'-6 1/2"	11 1/2"	9'-7"
45	9'-6 1/2"	-35'	36'-3 1/2"
46	9'-8 1/2"	-2'-10"	10'-1"
47	10'-2 1/2"	-7 1/2"	10'-2 1/2"
48	10'-7 1/2"	-32'-1"	33'-9 1/2"
49	10'-8"	-36'-4"	37'-10 1/2"
50	10'-8 1/2"	-24'-0 1/2"	26'-4"
51	11'-11"	-2'-5"	12'-2"
52	12'-2"	-9 1/2"	12'-2"
53	12'-4"	-31'-9 1/2"	34'-1"
54	14'-11"	-15'-1"	21'-2 1/2"
55	15'-9"	7'-10 1/2"	17'-7 1/2"
56	21'-8 1/2"	8'-2 1/2"	23'-2 1/2"
57	24'-3 1/2"	8"	24'-4"
58	25'-6 1/2"	-9'-1"	27'-1 1/2"
59	26'-8"	11 1/2"	26'-8"
60	27'-10"	-30'-0 1/2"	40'-11 1/2"
61	27'-11"	-8'-9 1/2"	29'-3"
62	28'-3"	-33'	43'-5 1/2"
63	40'-2"	-28'-3 1/2"	49'-1 1/2"
64	40'-7"	-31'-3 1/2"	51'-2 1/2"
65	41'-7 1/2"	3'-0 1/2"	41'-9"
66	50'-11 1/2"	-26'-9 1/2"	57'-7"
67	51'-4 1/2"	-29'-9"	59'-4 1/2"
68	52'-7"	-1/2"	52'-7"
69	59'-1"	-22'-4"	63'-2"
70	61'-8 1/2"	7'-1 1/2"	62'-1 1/2"
71	61'-8 1/2"	8'-4 1/2"	62'-3 1/2"
72	64'-5"	7'-6"	64'-10 1/2"
73	64'-10"	6'-4 1/2"	65'-1 1/2"
74	65'-4"	5'-6"	65'-6 1/2"
75	65'-11"	4'-9"	66'-1"
76	66'-9 1/2"	3'-11 1/2"	68'-11"
77	67'-9 1/2"	3'-3 1/2"	67'-10 1/2"
78	68'-8 1/2"	2'-11"	68'-9"
79	69'-8"	2'-8"	69'-8 1/2"
80	70'-10"	2'-6 1/2"	70'-10 1/2"
81	72'-10"	-1 1/2"	72'-10"
82	73'-10 1/2"	-20'-1 1/2"	76'-7"
83	75'-4 1/2"	-18'-6"	77'-7 1/2"

IF FOOTING CONTAINS A COMPONENT NUMBER, REFERENCE THE INSTALLATION MANUAL FOR COMPONENT FOOTING SPECS.

FOOTINGS TABLE			
TYPE	DIAMETER/SIDE	DEPTH	QTY.
A	1'-6" [45.72cm]	2'-6" [76.20cm]	34
B	1'-2" [35.56cm]	2'-6" [76.20cm]	15
C	2'-0" [60.96cm]	4'-0" [121.92cm]	2
D	2'-0" [60.96cm]	2'-6" [76.20cm]	8
J	1'-0" [30.48cm]	2'-0" [60.96cm]	2

It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" =1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Cassie Pruitt
Date:
9/16/24
Quote Number:
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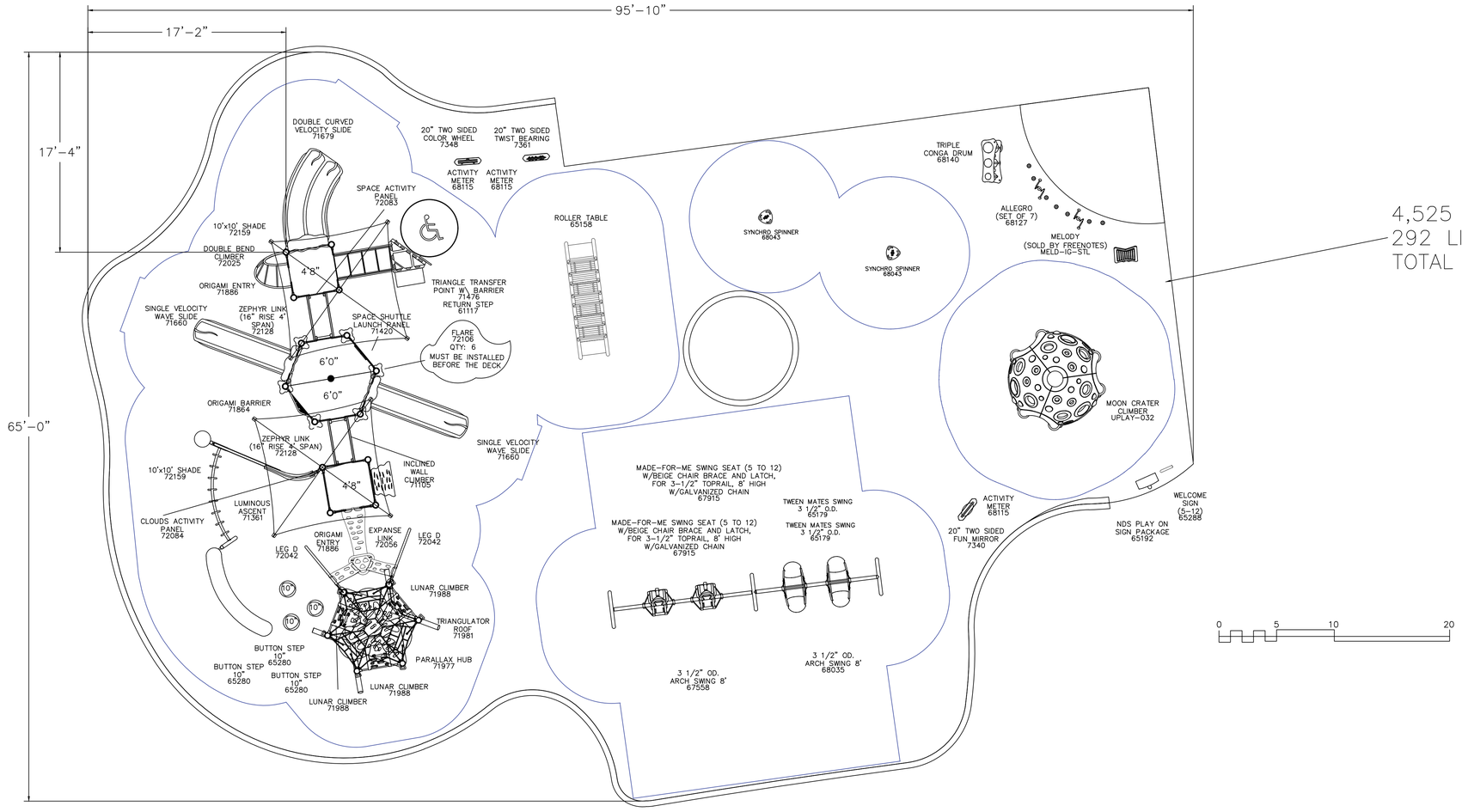
Total Play Components	29			User Capacity
Elevated Play Components	9			95-100
Elevated Play Components Accessible by Ramp	0	Req.	0	Critical Fall Height
Elevated Components Accessible by Transfer	7	Req.	5	8'-0"
Accessible Ground Level Components Shown	20	Req.	3	
Different Types of Ground Level Components	5	Req.	3	

SUPERmax PLAY SYSTEMS
ultraPLAY A PLAYCORE Company
Freenotes Harmony Park A PLAYCORE Company

Order 4268620

ISO 9001 CERTIFIED

This equipment is designed for children 5-12 years old



It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
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Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" =1'-0"
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Drawn By:
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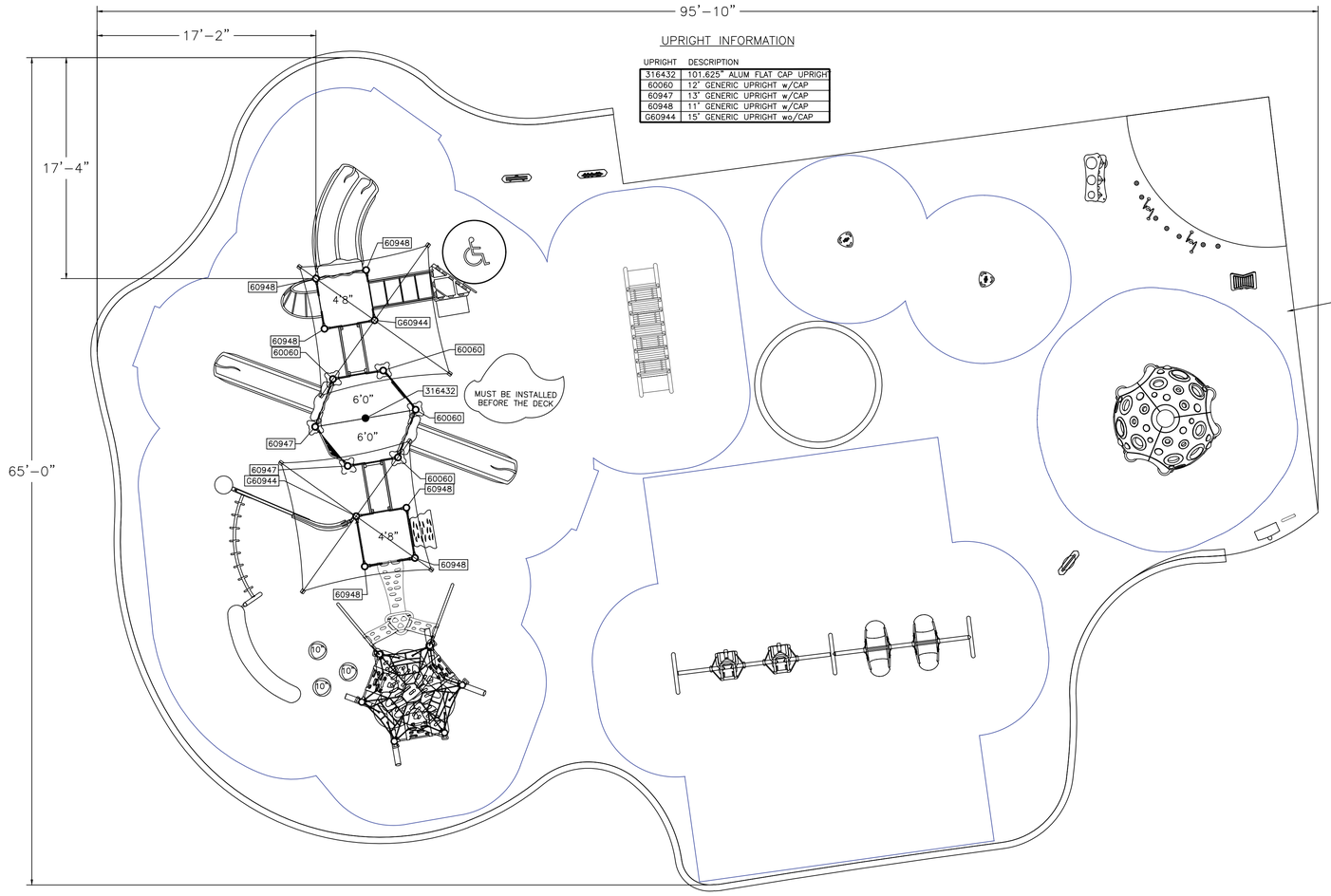
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SUPERmax PLAY SYSTEMS
ultraPLAY A PLAYCORE Company
Freenotes Harmony Park™ A PLAYCORE Company

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Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
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Mound 4th-5th
Quote # 821-170093A

9/17/2024

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Freestanding - Other

Inclusive Orbit
The Inclusive Orbit shall be constructed from stainless steel with sealed bearings, and a compact grade laminate top surface. The seat shall be constructed of high density polyethylene

Bounce-A-Rounds

2-Seat Bounce Around
GENERAL: Bounce Around shall be supported on three rubber springs. Springs shall be attached to Arm and Base Assembly with 3/8" x 1" hex head bolts.

ARM ASSEMBLY: Support arms shall be fabricated of 2-7/8" O.D. galvanized pipe. Animal Mount plates shall be fabricated of 1/4" x 4" H.R. steel. Foot rest shall be fabricated of 1/2" diameter H.R. steel rod. Cover assembly shall be fabricated of 12 gauge steel, 21" diameter with 3/4" O.D. rolled edge, and 1/4" x 1-1/2" H.R. steel mounting brackets. Spinning will bolt to arm assembly.

ARM BRACKET: Shall be fabricated of 3/8" thick H.R. steel.

BASE ASSEMBLY: Shall be fabricated of 3/8" x 18" x 18" H.R. steel and precision drilled to receive 3/4" anchor bolts. Spring support shall be fabricated of 1/4" x 13-7/16" H.R. steel.

SPRINGS: Shall be durable rubber fused to 3/16" x 6-1/2" x 10" steel plates.

SADDLE SEATS: Cast aluminum 1/4" thick wall molded in hand holds. There shall be four screw bosses cast to the seat which are integral parts of the seat. The bosses shall be drilled to receive four 3/8" diameter bolts.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9%

pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)

- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Other Swings

TweenMates Swing
SWING HANGERS:
All Swing Hanger castings shall be cast of malleable iron.

BUDDY SEATS:
All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

SELFIE SWING CHAIN:
Shall be #80 4/10 straight link coil galvanized chain. The chain is chemically washed and completely submerged in a special heatactivated primer and allowed to dry.

LARGE FRAME WELDMENT:
All frame assemblies shall be an all weld assembly fabricated from 1.315 O.D. schedule 40 pipe, 1.029" x 0.0.72" (13 gauge) wall pipe stob, 12 ga. pickled and oil hot rolled flat steel cap, .752" aluminum bronze bushing pressed in 9.25" x 4.375" hot rolled steel tab.. The frame ass'y shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

APPROPRIATE AGE LABEL & WARNING LABEL:
Shall be fabricated from 4mil vinyl with poly carbonate overlay.

D SHACKLE w/NO-SNAG PIN:
Shall be fabricated from 316 stainless steel.

POWDER COAT FINISH:
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage Alkaline bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a rich primer that forms a rust-resistant barrier layer over each weld prior to application of the color powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 100% at 400 degrees Fahrenheit.

HARDWARE:
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandalresistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Deck Components

Recycled Slat Roof
Contains alternating recycled slats. Recycled Plastic Lumber: Size 1 - All plastic lumber components are made from 98% post consumer high density polyethylene (primarily recycled milk jugs and bleach bottles). The reminaing 2% is pigment and UV inhibitors.
All lead bearing components are fiberglass reinforced.
Recycled Slats: Size 2: Shall be HDPE, UV-inhibited, Plastic Lumber with a density/ L.F. of 0.61. Slats shall have a nominal thickness of 1".

General Specifications of Materials

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Sensors

Pachinko
Pachinko:
The Pachinko shall be fabricated from 1/2" high density polyethylene, nylon spacers, and 3/16" thick UV inhibitive acrylic with 10mm nylon
ball

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

Sensors

JamBox
Jam Box Panel:
The Jam Box panels shall be fabricated from 3/4" high density polyethylene with electronic components contained within water tight low density polyethylene housing.
HDPE Spacer Rings:
The HDPE spacer rings shall be fabricated from 3/4" high density polyethylene

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

play&park structures®
A PLAYCORE Company

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Entry Archway
Entry Archway shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick stainless steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-

vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Deck Platforms
Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Metal Components

Potters Bench
The steel panel shall be fabricated from 12 gauge (.109) hot rolled steel. The seat frame shall be fabricated from 1-5/16" x 14 gauge (.083") wall. The L-fitting shall be fabricated from 3/16" x 1-1/2" flat stainless steel. The bottom tab shall be fabricated from 1/8" x 2" flat stainless steel. The enclosure panels shall be an all welded assembly powder coated after fabrication with a custom formula of TGIC polyester in conformance with the specifications outlined herein.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 -

87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Rotomolded Components

Avalanche & Landslide Slides
Footbuck:

Shall be 1 5/16" O.D. 14-gauge galvanized steel tubing and 12GA. (.109”) Sheet metal P & O. All parts are all welded construction with a baked on polyester powder-coated finish after fabrication.

SLIDE SECTIONS:
All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

Slide Support:
Support Plate shall be made of 12 GA. H.R. Steel, sheet sheared into 11 ¼” Wide strips. Footbuck pipe shall be made of 2” L.W. GALV. PIPE, 41 11/16” LG. All parts are all welded construction with a baked on polyester powder-coated finish after fabrication.

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners hall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

General Specifications of Materials

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

- Tensile Strength - 2,800 psi
- Elongation - 290 %
- Tear Strength - 420 lbs/in

Deck Components

Deck Platforms
Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Deck Components

Slat Barrier
Contains alternating recycled slats. Recycled Plastic Lumber: Size 1 - All plastic lumber components are made from 98% post consumer high density polyethylene (primarily recycled milk jugs and bleach bottles). The reminaing 2% is pigment and UV inhibitors.
All lead bearing components are fiberglass reinforced.
Recycled Slats: Size 2: Shall be HDPE, UV-inhibited, Plastic Lumber with a density/ L.F. of 0.61. Slats shall have a nominal thickness of 1".
Brace: Shall be fabricated from ¾" square 11 gauge steel tubing and powder coated.

Rotomolded Components

Rain Wheel
Rain Wheel shall be 2-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).
Back plate is 1/8" H.R. Steel with brass bushing. The Bracket consist of a 5" O.D. Half Clamp made of 3/16" x 3 ½" H.R. Steel, 9 7/8" LG. and a Galvanized Steel Coupling Nut (Galvanized Steel).

General Specifications of Materials

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool

required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

HDPE Components

HDPE Panels
Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Seat For 2 & Table
Seat Support Beam is a 1 5/8" O.D. 14-gauge galvanized tube welds to 5" O. D. Half Clamps. Table Support post is fabricated from 2 3/8" O.D. galvanized steel tube and 3/16" thick steel plate for attachment. All parts using only stainless steel welds and polyester powder-coated finish after fabrication.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Cable Nets

Labyrinth with Tree
Support Pipe Tree 1 & 2:
Shall be 3.5" outside diameter, 13 gauge (.095") galvanized round tubing, manufactured to ASTM A-500 Section II tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for Steel Coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright posts shall have a finished grade line marking to indicate the correct playground safety surface level.
All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.
Hardware:

All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Sensors

Rain
Rain:
The Rain shall be fabricated from 1/2" high density polyethylene, 14 ga. Stainless steel, and 3/16" thick UV inhibitive acrylic with 4.5mm
stainless steel balls.

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Metal Components

U-Handles
U-handles are fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing formed into 'U' shape and receive a baked on polyester powder-coated finish.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees

Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Rotomolded Components

Mini Amaze Panel
Mini A-Maze: Panel shall be 3" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). Panel shall attach to upright clamp using a one piece formed 3/16" stainless steel tab.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Other

Small Amaze Activity
Small Activity: The Triangle Housing and Caps shall be injection molded from color impregnated high density polyethylene. The Maze Bubble shall be injection molded from clear ABS plastic. The Echo Chamber, Answer Wheel, Knob and Maze shall be injection molded from color impregnated ABS plastic. The Flat Mirror shall be 1/8" thick Polycarbonate with a mirror finish applied to one side. The Stained Glass shall be 3/16" translucent Polycarbonate

Sensors

Roller Balls
Roller Ball:
The Roller Ball shall be fabricated from 1/2" high density polyethylene which encapsulates colored acrylic spheres.

General Specifications of Materials

Hardware
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

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Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Balcony Deck
Balcony Deck is fabricated from pre-punched 11-gauge steel sheet. Each deck uses two 11-gauge lower steel flat support-bars that are welded to the deck to increase strength. After welding, entire deck is Plastisol coated with a thickness of 80 mils minimum. Average perforation size is 1/4" diameter after coating. Balcony Pipe Wall is a steel welded assembly using 1-5/16" O.D. 14-gauge galvanized tubing. Vertical tubes are welded to curved horizontal tubes and the entire assembly is polyester powder-coated after fabrication.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Sensors

Sensory Summit Range Climber 1
Sensory Wave Pieces:
Shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790);Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

Metal Components:
The footbuck weld assembly shall be an all weld assembly fabricated from 3 1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 3/16" steel plate. The footbuck shall be coated with a custom formula of TGIC polyester powder coating in conformance with the
specifications outlined herein, after fabrication.

General Specifications of Materials

Hardware

All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow
dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weightsare based on average comparisons of each part.

Powder Coat Finish

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees

Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Ramps - Pipe Wall
The Ramp Platform is fabricated from pre-punched steel sheet 12-gauge thick with steel flat support bars welded underneath to increase strength. After welding, the entire platform is Plastisol coated with a minimum thickness of 80 mils. The Pipe Wall is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing with 'L' fitting stainless steel welded for attachment. The entire Pipe Wall receives a baked on polyester powder-coated finish.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Metal Components

Hand Peddler
The Hand Peddler frame shall be an all welded assembly fabricated from 1 ½" O.D. LW galvanized steel tubing and 1" O.D. LW galvanized steel tubing with 3/16" thick stainless steel tabs. The Hand Peddler frame shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein. The Hand Peddler disks shall be constructed of two 3/4" thick (2 color) high density, UV-stabilized and color impregnated polyethylene. The disks shall ride on three 1 ½" molded urethane skate wheels.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Harmony Music

Sonata
Sonata Instrument Insert:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet.

Sonata Front HDPE Panel and Sonata Back Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ftñ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Sonata Spacer:
Shall be fabricated from 1.315" O.D. x .083" (14 gauge) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded pipe insert. The Sonata Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein

Small Bracket Plate:
Shall be fabricated from 11 ga. 18" x 1/8" thick stainless steel. The Small Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Long Bracket Plate:
Shall be fabricated from 11 ga. 40"" x 1/8" thick stainless steel. The Long Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Mallet Package:
Shall be an all plastic construction with stainless steel hardware

Sonata Support Assembly:
Shall be an all welded construction fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing, 3 1/2" O.D. x .095" (13 gauge) galvanized steel tubing, 1/4" thick laser cut plate, and 13 ga. 2.375" o.d. galv. tubing. The Sonata Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359

& Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied
from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

Presto
Presto Instrument Insert: Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet.

Mallet Package: Shall be an all plastic construction with stainless steel hardware.

Presto Front HDPE Panel and Presto Back HDPE Panel: Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The
material will have a denisty of 60lbs/ftñ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Presto Spacer: Shall be fabricated from 1.315" O.D. x .083 (14 gauage) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate
finish threaded insert. The Presto Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Presto Support Assembly:
Shall be an all welded construction fabricated from 2.375" O.D. x .095" (13 gauge) wall galvanized steel tubing, 3.5" O.D. x .095" (13 gauge) wall galvanized steel tubing, and 1/4" thick laser cut plate. The Presto Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plate steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a

specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Deck Components

Kickplates
Kickplate is cut from galvanneal sheet metal with (8) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Corners are rounded, edges are ground smooth, and receives a baked-on polyester powder-coated finish after fabrication.

Rotomolded Components

Slide Transfer
Slide Transfer Platform:
Shall be fabricated from pre-punched sheet 12-gauge thick with steel flat support bars welded underneath to increase strength. After welding, the entire deck is coated using PVC, with a thickness of 50 to 80 mils on top wear surface. Average perforation size is 0.35" diameter after coating.

Upright Assembly:
Shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Plastisol Coating
All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi
Elongation - 290 %
Tear Strength - 420 lbs/in

Deck Components

Ramps
The Ramp Platform is fabricated from HR steel with steel flat support bars welded underneath to increase strength. Transition Plate is fabricated from 1/8" steel plate stainless steel welding and pre-punched attachment holes and receives a baked-on polyester powder-coated finish after fabrication. After welding, the entire platform is Plastisol coated, with a thickness 80 mils minimum. Guard Rails and Pipe Walls are fabricated from 1-5/16" O.D. galvanized steel tubing with 'L' fittings stainless steel welded for attachment. Each entire Guard Rail or Pipe Wall receives a baked-on polyester powder-coated finish. Support Legs are fabricated from 1-5/8" O.D. galvanized steel tubing.

General Specifications of Materials

SuperMax Clamp
Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

Park Play Specifications

General System Specifications:

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

Therapeutic Swing

Made-for-Me Swing Seat
All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

Arch Swing Structures

Arch Swing - (3 1/2" O.D. Toprail)
Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

SuperMax Specifications

General System Specifications:

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

General Specifications of Materials

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees

Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

Uprights, Aluminum
The posts shall be 5"outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

Polyester Powder-Coating Process
Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

Hardware
All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

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Uprights, Steel
The posts shall be 5" outside diameter, 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

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play&park structures®

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OWNERS MANUAL



Visit www.playcore.com/shipment or use the QR code to give feedback about the condition of the shipment, quality of the product, and installation feedback.
Please include pictures.

This document includes;

- Warranty Information
- Ground Plan
- Hardware Listing
- Assembly and Installation Instructions

IPEMA MEMBER · ASTM INTERNATIONAL · ISO 9001

playandpark.com | 800.727.1907

play&park structures®

A PLAYCORE Company

Dear Play & Park Customer,

Thank you for choosing to purchase and install a Play & Park Structures play system. We appreciate the confidence and trust you have placed in our company.

Your Play & Park Structures Installation Guide is enclosed. We designed this manual specifically for the products you have purchased. Included in this manual you will find the following documents:

- Product Installation Instructions
- 2-D Top View Drawing specific to your structure
- Ground Plan

If you have any questions concerning your new equipment, you can reach your recreation consultant by calling 1-800-727-1907. To contact a Play & Park Structures customer service representative, you may call 1-888-404-5737 or reach them online by sending an email to: customerservice@playandpark.com

For more information on Play & Park Structures products, please do not hesitate to call us, or visit us online at www.playandpark.com.

Thank you for your business; we look forward to working with you on future playground equipment projects!

Sincerely,

Play & Park Structures

Safety Guidelines

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures STRONGLY recommends that you follow these Safety Guidelines in conjunction with conducting periodic maintenance inspections using the accompanying Playground Maintenance Checklist.
When installing, always consider local conditions and codes. Good common sense works hand-in-hand with the instructions.

LOCATING YOUR PLAY STRUCTURE

Comply with the following when choosing the location for your new equipment:

- Equipment should be placed to eliminate conflicting traffic patterns. As a general rule, allow at least 6' of free space around the entire structure, EXCEPT for slide exits, which require a distance X equal to highest point of sliding surface with a minimum of 72" and maximum of 96" from the edge of the slide. Example: a Slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of and behind them for safe circulation. Example: a Swing with a 8' high beam requires 16' of free space in front, and another 16' behind it, for a total of 32'. These minimum areas should be filled with the appropriate resilient surface material. See below for resilient surfacing recommendations.
- If your equipment includes any metal slides, they should be positioned in a shaded area, or at least positioned to avoid the sun's direct rays.
- Never overlap the safety zones of adjacent equipment. All separate play equipment must have its own safety zone, and these cannot overlap. So, if you have an existing structure with a slide exit oriented toward your new one, add your minimum safety zone to that of the existing slide to determine how far away you need to be.
- Never install playground equipment near, around, or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

CHOOSING RESILIENT SURFACING MATERIAL

Playground equipment must be installed on a soft, resilient, energy-absorbing ground surface.
NEVER INSTALL PLAY EQUIPMENT ON CONCRETE, ASPHALT, OR GRASS. A fall on a hard surface from even a low platform of 3' high can result in serious injury to the user. Refer to CPSC and ASTM F1292 for recommended surfacing depths and requirements.

Tip: If your surfacing material is of the loose variety, checking for proper depth over time can be made easy by applying a non-removable florescent tape or paint in a bright color at the proper level on each post. Thereafter, as the resilient surfacing material compacts or washes away, the person responsible for regular maintenance inspections can easily see it must be replenished as the marks become visible.

AFTER THE EQUIPMENT IS IN USE

- Never add components not intended for use with this product.
- Never install other play equipment, fencing, landscaping, etc., which encroach upon the safety zones of this equipment.
- Check to make sure that there are no overhead obstructions within the use zone of the playground equipment that are not part of the play structures (example: tree limbs). Any overhead obstructions should be at least 84" above each platform or designated play surface or 84" above the pivot point of swings. All overhead utility line clearances above the use zone area should comply with all local, state and national codes.
- Regularly inspect and maintain your playground equipment and its surrounding area. Proper maintenance of Play & Park Structures equipment includes using the accompanying Playground Maintenance Checklist to identify areas requiring repairs or replacement, and barricading the equipment to prevent use while corrections are being made.
- If your playground equipment includes any wood components, bolts may need to be re-tightened after initial use due to wood shrinkage. Check and re-tighten all fasteners after the first few days of use, and again after the first 3 weeks of use. Thereafter, exercise normal maintenance procedures. Using a thread-locking compound on the threads of bolts can help prevent persistent loosening.
- 'S' hooks must be completely closed. Replace all worn 'S' hooks, and never re-use 'S' hooks.
- Pipes should never be allowed to turn. In the case of wood playground equipment, make sure all collars are snugly flush against the inside of posts with set screws tightened and wood screws flush against the outside of the collar, and all flat head bolts and set screws are tight. In the case of steel playground equipment, check set screws for tightness.

For specific information regarding playground safety and your responsibilities as the owner of this equipment, please contact the Consumer Product Safety Commission (CPSC), Washington, DC. for the latest guidelines for your play area and this equipment.

If any conditions or damages are discovered in violation of these Safety Guidelines or the accompanying Playground Maintenance Checklist, the play equipment should be barricaded immediately and children should not be allowed to use it until the conditions are corrected.

Introduction to Installation Instructions

Revised 03.29.16

IMPORTANT! Please read the entire Installation Instructions packet before beginning the installation.

Play & Park Structures has designed the SuperMax, DuraMax, totmax, Skyline, Boulderscapes and Horizons Play Systems to take advantage of all Consumer Product Safety Commission (CPSC) Guidelines and ASTM standards in force at the time of purchase in an effort to help reduce the chance of playground accidents. However, because studies have shown most playground injuries result from accidental falls, you, as the new owner of this equipment, are responsible for providing and adequately maintaining ***resilient play surfacing*** under and around all playground equipment. Please refer to the accompanying Safety Guidelines as well as CPSC guidelines and this document for examples of such surfacing.

We would like to provide the following suggested guidelines for your play environment:

- Refer to the Footing Diagram and note the Minimum Area Required shown for this structure. This area must be filled with adequate resilient play surface material, and must be clear of all obstacles, including but not limited to trees, curbing, sidewalk, fence, other play equipment, rocks and landscaping, etc.

- Acceptable play surfaces include sand, wood mulch, fine gravel or ground belt-less tires, if installed at the appropriate depths per CPSC guidelines for play surfacing.

- When using sand, wood mulch, or ground belt-less tires, a minimum of 6" depth is recommended by the CPSC. Play & Park Structures recommends an additional 4", for a total of 10", to combat the fast compacting characteristics of these materials. Surfaces must be checked at least weekly for compacting, which reduces resiliency significantly.

- Paved surfaces such as asphalt, concrete, gravel or sod are not acceptable for use under playground equipment, or anywhere within the stated Minimum Area Required.

- Close supervision of children playing on or around the structure is strongly recommended, along with classroom and/or home instructions on acceptable behavior on the playground equipment. The full supervision of playgrounds is the responsibility of the owner once the play structure has been properly installed.

TOOLS REQUIRED:

Play & Park Structures supplies the special bits required to fasten the "tamper-resistant" bolts. You will need common tools such as wrenches, Allen key set, drill, string line, level, mallet, shovels, post hole digger, pry bar, washable felt tip marker and a tape measure.

INSTALLATION GUIDELINES:

1. Compare all parts received to the packaging list. Notify Play & Park Structures immediately of any missing parts. We are not responsible for parts discovered missing over 10 days after receipt of the shipment.

2. Refer to your Footing Diagram to ensure this structure will fit into your actual site area. Note the Minimum Area Required measurements to determine clear space required. A minimum of 6' clearance is required between any obstacles and your structure. EXCEPT for slide exits, which require a distance X equal to the highest point of sliding surface with a minimum of 6' and a maximum of 8' from the edge of the slide (example: A slide from a 6' high deck requires 6' of clear space with resilient surfacing in front of its exit).

3. Site selection should include considerations of what is a safe and appropriate play area:
   a. A level and clear site is ideal, free of power lines or electrical equipment.
   b. Do not install play equipment near any bodies of water.
   c. If adjacent to a street with traffic, ensure adequate fencing acts as a barrier to children running into danger.

4. Site layout should include accurate measurement and marking of all footings prior to any installation. Use the dimensions shown between footings on the Footing Diagram to plot out the actual footprint of the play structure before doing any digging. Also, locate any free-standing play equipment in the same way, providing the necessary clearance between the equipment as well as any fences, trees, etc. Ensure at this time that you have enough total space for the equipment to be installed.

5. Excavate holes as shown in the Footing Diagram using a string line. An optional string line level is very helpful. If a level and clear site is not possible, adjust the depth of the footings to maintain a minimum depth of 18 in. for support posts at the lowest grade. NOTE: if soil conditions are very loose or otherwise unstable, a larger diameter footing may be required. Consult with local contractors for appropriate recommendations.

6. Begin your SuperMax, DuraMax, totMax , Skyline, Horizons, and BoulderScapes Play Systems installation by erecting the decks as shown within the following instructions.
   IMPORTANT: Do not concrete product until installation is complete!
   Once all decks are installed, components such as slides, climbers, etc., can be connected per their respective assembly instructions. Note that connecting components between decks such as Horizontal Ladders, Crawl Tunnels, Trapeze Beams, etc., should be installed concurrently with the decks to ensure they meet accurately.

7. CPSC guidelines mandate that there should be no gaps present in the playground equipment which fall between 3 ½" and 9". The positioning of certain components by the installer can affect this criteria, so you should always measure distances created when attaching components by the installer, which can cause entrapment of a child using the equipment. Also, ASTM requires that no more than 2 threads of bolt can protrude from the nut. Any excess threads should be filed down and made smooth to the touch.

8. When concrete is poured, be sure to keep the top 4" below the grade, and sloped away from the post to promote good water drainage. Wash off any concrete, which may have splashed onto the post before it dries. Allow all concrete to harden a minimum of 48 hours before using equipment.

SAFETY DURING INSTALLATION:

1. Before doing any excavation, inquire about any existing underground utilities.

2. Do not leave the job site unattended without making sure that all fastening hardware on all equipment are tightened and all Drive Rivets are in place to prevent clamps from moving, in case of unauthorized use. **PLAY & PARK STRUCTURES CLAMPS ARE NOT DESIGNED TO SUPPORT HUMAN WEIGHT WITHOUT THE DRIVE RIVETS INSTALLED, AND SUCH USE COULD CAUSE INJURY TO THE USER AND/OR DAMAGE TO THE EQUIPMENT.** It is also strongly recommended that all installation areas be roped off with clearly marked warning signs posted. Any open footings should be covered with plywood or other suitable material. Even during installation, it has been found that children will use the unattended equipment, thereby risking accidents.

3. The installation area should remain roped off for at least 48 hours after the last concrete footer is poured. Children should not be allowed to use the equipment during this period so that concrete has a chance to fully set.

4. Do not attach swing chains, trapeze rings or similar moving components until after all construction is complete and resilient surfacing material has been installed. Remember that any equipment, which appears to be complete and functional will invite unauthorized use regardless of its actual state of readiness.

Finally, if you should have any questions regarding the proper installation of this equipment, please contact Play & Park Structures at:

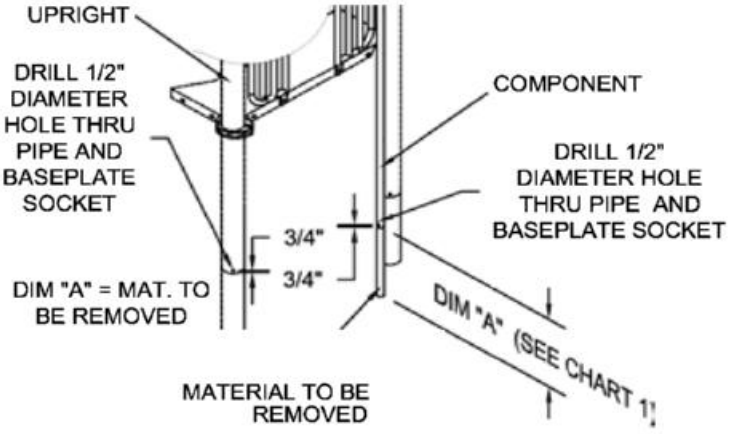
544 Chestnut Street, Chattanooga, TN 37402
TOLL Free: 800.727.1907 FAX: 423.425.3172
EMAIL: customerservice@playandpark.com
Visit our website: www.playandpark.com

play&park structures

60855 SURFACE MOUNT INSTALLATION INSTRUCTIONS FOR PARK STRUCTURES

ISSUED/REVISED: 08/07/14

NOTE: 2", 8", 10" LENGTH INDICATES THE SURFACING DEPTH. ALL COMPONENTS ARE SHIPPED AS STANDARD 30" INGROUND LENGTH. (20" DEEP HOLES & 10" SURFACING)



IMPORTANT: CHECK ALL GROUND MEMBER LOCATIONS TO COMPENSATE FOR SLOPE ***BEFORE*** CUTTING!

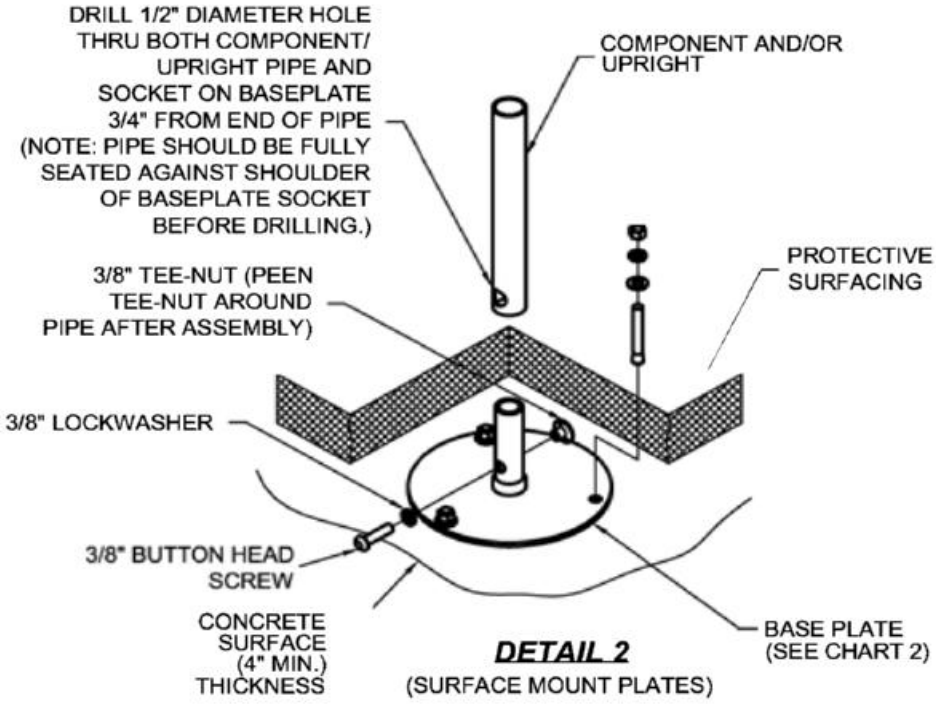
CHART 1

SURFACING DEPTH	MATERIAL TO BE REMOVED	
	W/OUT EXT.	W/6" EXT.
2"	28 11/16"	22 11/16"
8"	22 11/16"	16 11/16"
10"	20 11/16"	14 11/16"

NOTES:
1. DIM "A" = MATERIAL TO BE REMOVED.
2. SOME INGROUND COMPONENTS REQUIRE EXTENSIONS. REVIEW YOUR STANDARD INSTALLATION SHEET IF EXTENSIONS ARE REQUIRED. ADJUST MATERIAL TO BE REMOVED ACCORDINGLY.
i.e. A COMPONENT REQUIRING 6" EXTENSIONS, AND IF SURFACING DEPTH IS TO BE 2", MATERIAL TO BE REMOVED WILL BE 22 11/16"

DETAIL 1

(FOR SURFACE MOUNT INSTALLATIONS)

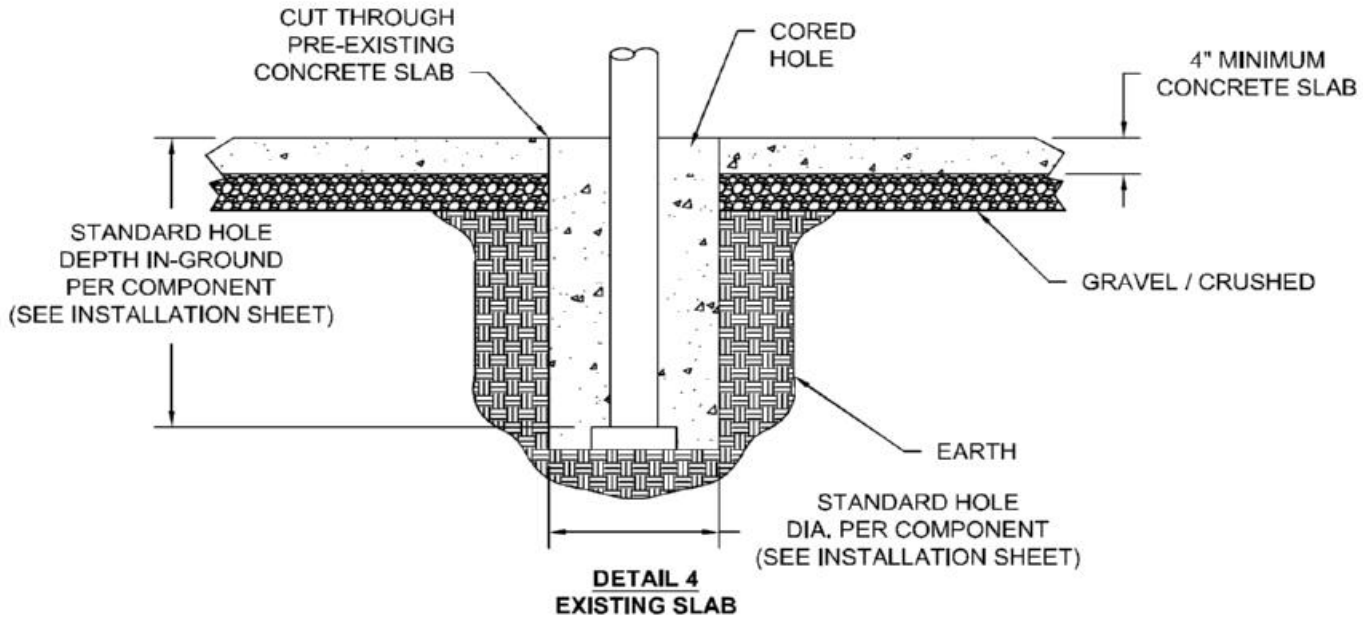


DETAIL 2

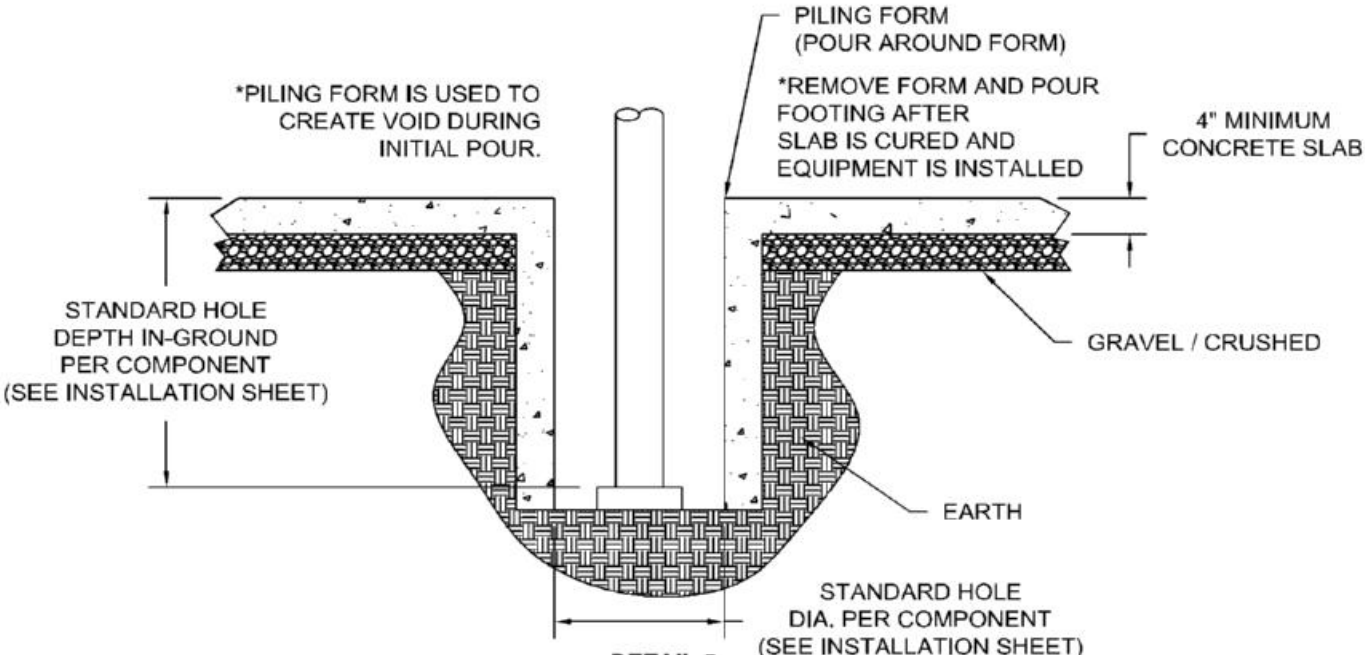
(SURFACE MOUNT PLATES)

CHART 2

NUMBER	O.D.	BASE PLATE
404765	1.029"	404764
60855	1 5/16"	152850
60856	1 5/8"	152851
60857	1 7/8"	152852
60858	2 3/8"	152853
60859	2 7/8"	152854
60860	3 1/2"	152856
60861	5"	152855



DETAIL 4
EXISTING SLAB



DETAIL 5
NEW SLAB

SURFACE MOUNT INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Concrete requirements for Suface Mount shall be 4" minimum thickness w/ 3000 psi.
3. For Surface Mount, remove required length of component and/or upright as indicated in **DETAIL 1**. See ***CHART 1*** for the material length to be removed. (Required for 2", 8" or 10" surface mount only.) ***Note:*** Debur and remove any sharp edges on part after cut is made.
4. Drill 1/2" diameter hole thru component/uprights and baseplate socket 3/4" from end of pipe. The pipe should be fully seated against neck of socket before drilling holes.
5. Attach Component to base plate as shown in **DETAIL 2.** See ***CHART 2*** for the specific base plate required for the diameter pipe being used. (Required for 2", 8" or 12" Surface mount only.)

IMPORTANT: Some components such as slides, chinning bars, nets, climbers, etc. may require "cored" holes to help eliminate movement when installed. Refer to Ground Plan configuration to determine if "cored" holes are required.

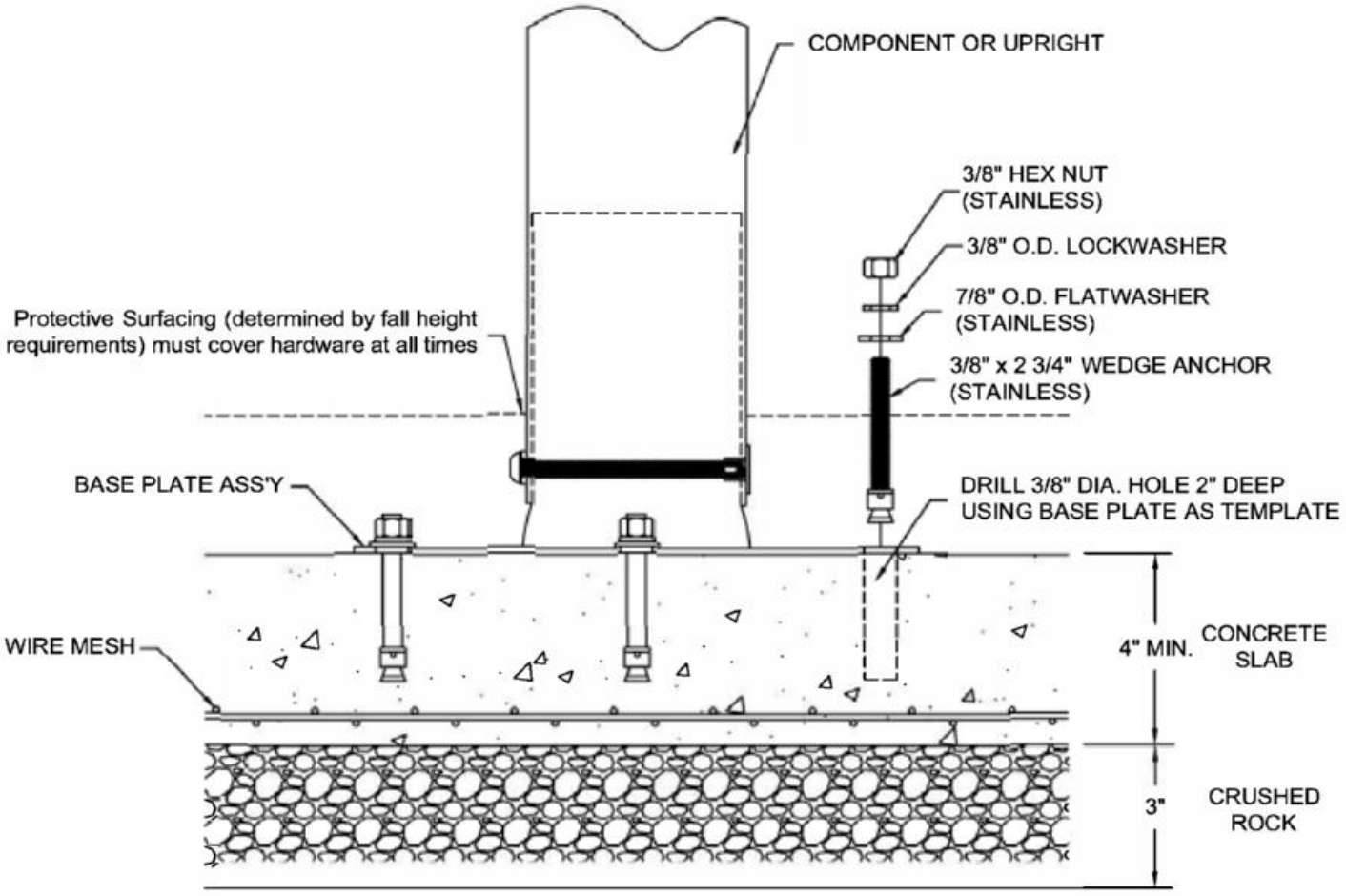
NOTE: If concrete slab is pre-existing and a cored hole is required it must be drilled through exisitng concrete to allow for concrete footing. Review your standard installation sheet for correct size and location of cored hole. See Detail 3.

NOTE: Cored holes can be created prior to concrete pour by using piling forms to create a void when pouring. See Detail 4.

NOTE: If a base plate interferes with an insert required for a below deck component that base plate will require a notch to be applied in the field.

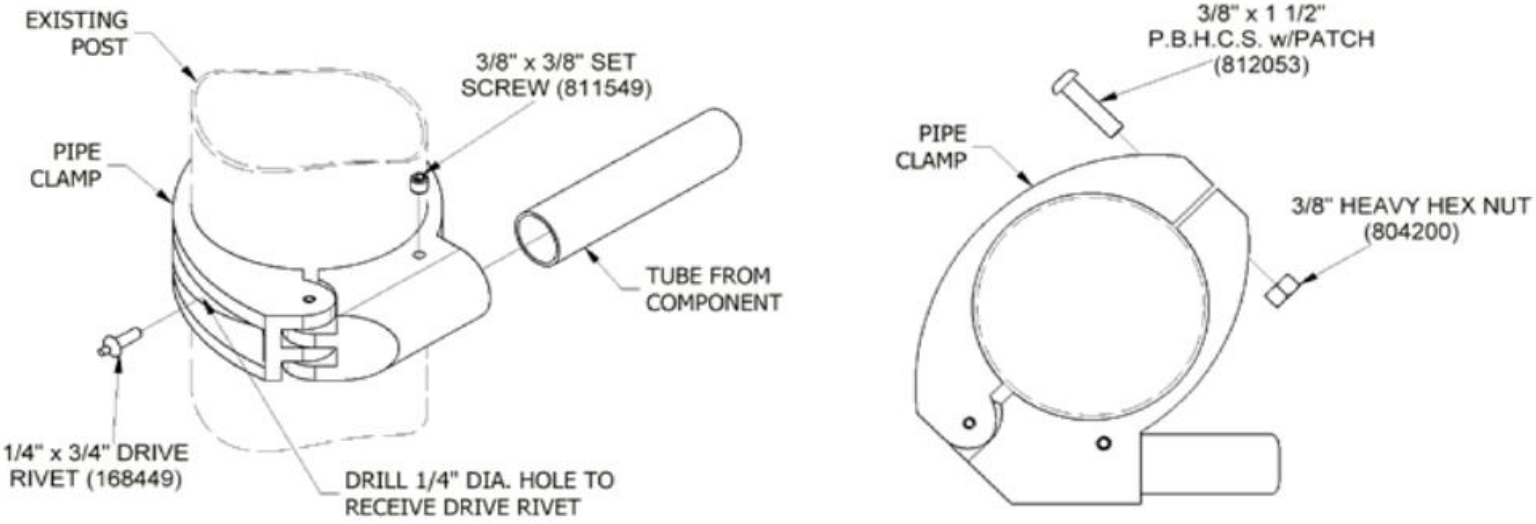
CONCRETE SPECIFICATIONS

1. Depth of concrete must be 4" minimum with wire mesh reinforcement.
2. Base shall be 3" crushed rock over compacted subgrade.
3. Minimum 7 days cure-full cure after 28 days.
4. Concrete rating shall be 3,000 PSI (minimum), 28 days 3,500 PSI.



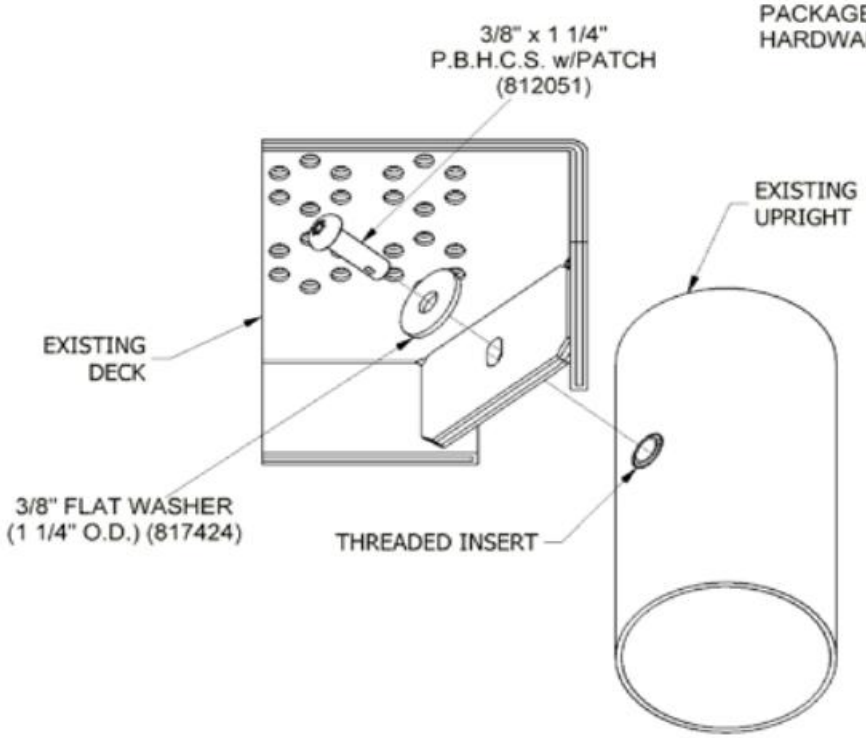
DETAIL 3
SIDE VIEW OF SURFACE MOUNT

Clamp Assembly Details



TYPICAL DURAMAX PIPE CLAMP ASSEMBLY

NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

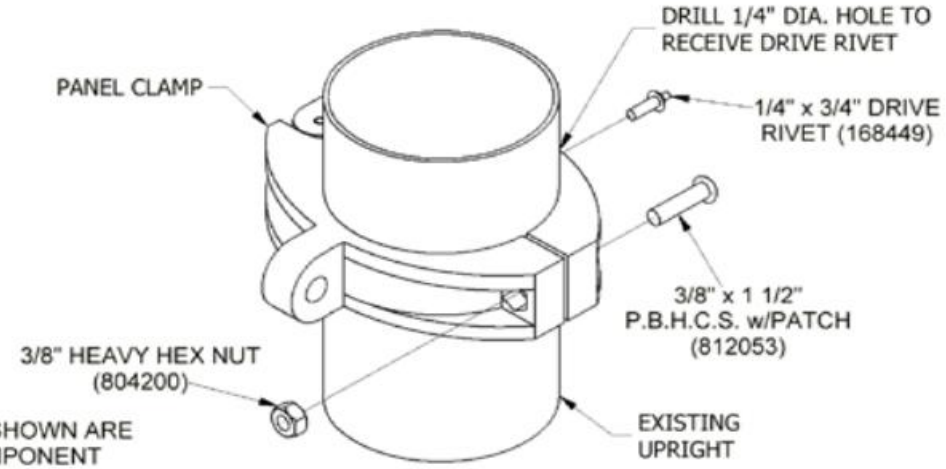


TYPICAL DURAMAX DECK CONNECTION

Issued/Revised: 4/4/2016

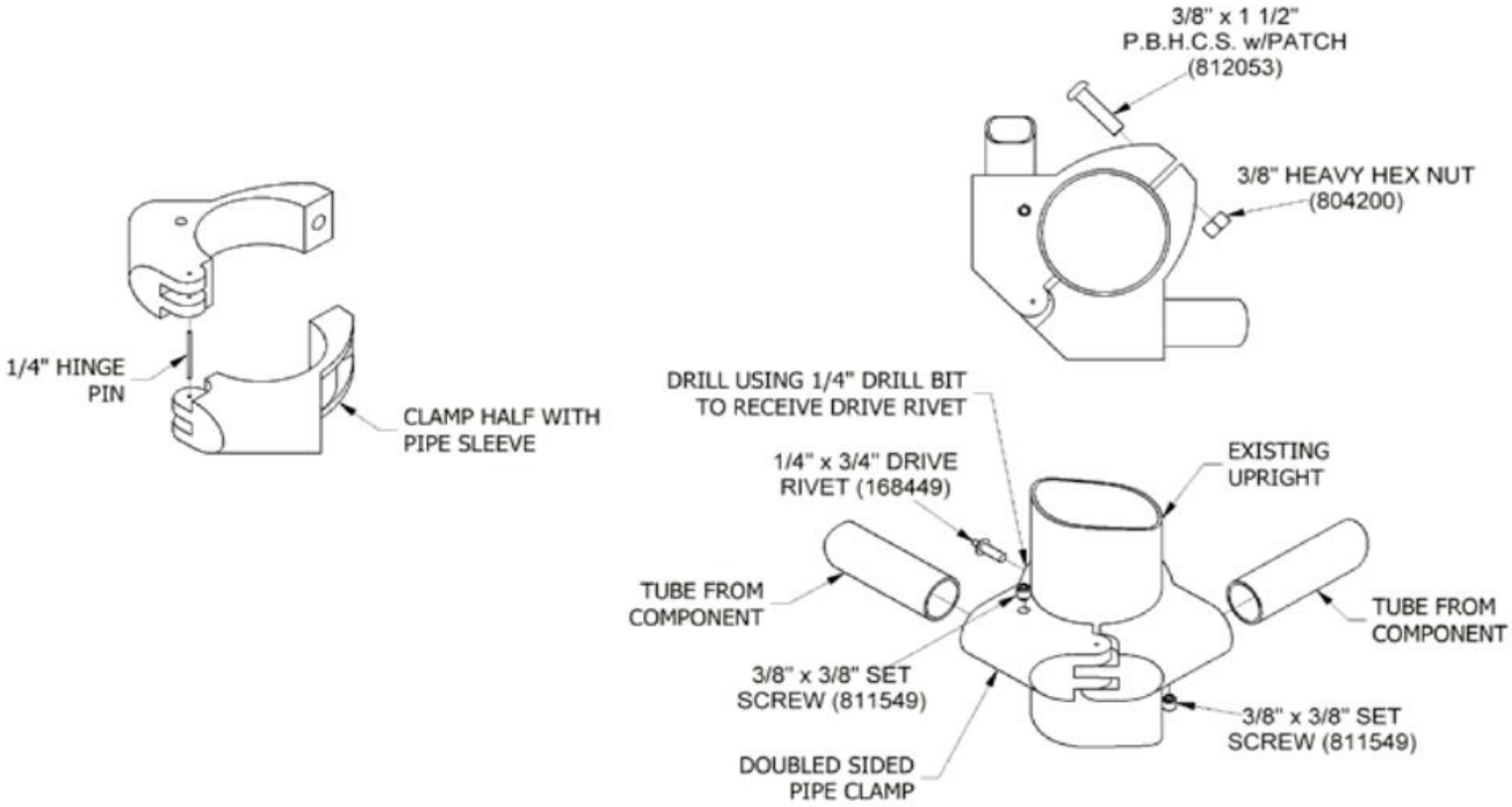
SHEET 1 OF 2

Clamp Assembly Details



NOTE: CLAMPS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES.

TYPICAL DURAMAX PANEL CLAMP ASSEMBLY



DURAMAX APPLICATION: To attach two components at 90 degrees to each other on the same square deck. Use when clamp conflicts do not allow you to use seperate clamps for each component.

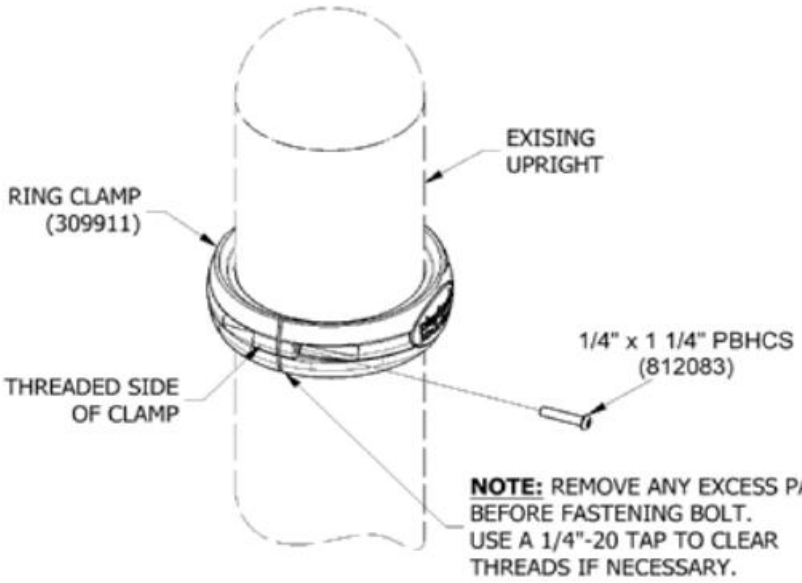
ASSEMBLY INSTRUCTIONS: Use two regular Pipe Clamps and remove hinge pins. Select clamps with pipe sleeves to create the Double Sided Pipe Clamp. Insert hinge pin back into clamps as shown above.

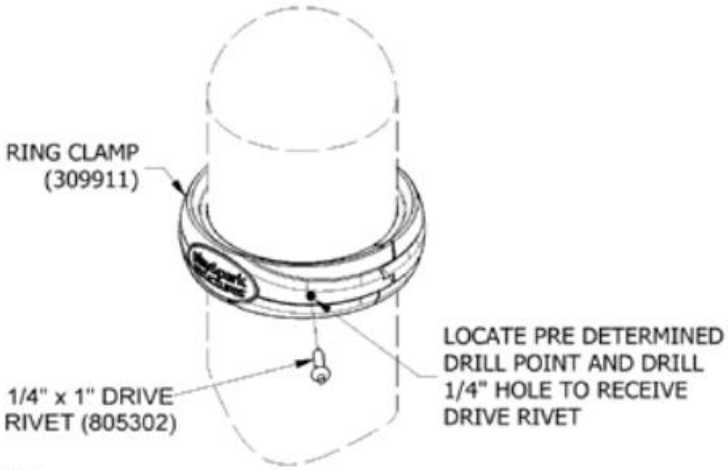
TYPICAL DURAMAX DOUBLE SIDED PIPE CLAMP ASSEMBLY

Issued/Revised: 4/4/2016

SHEET 2 OF 2

Clamp Assembly Details





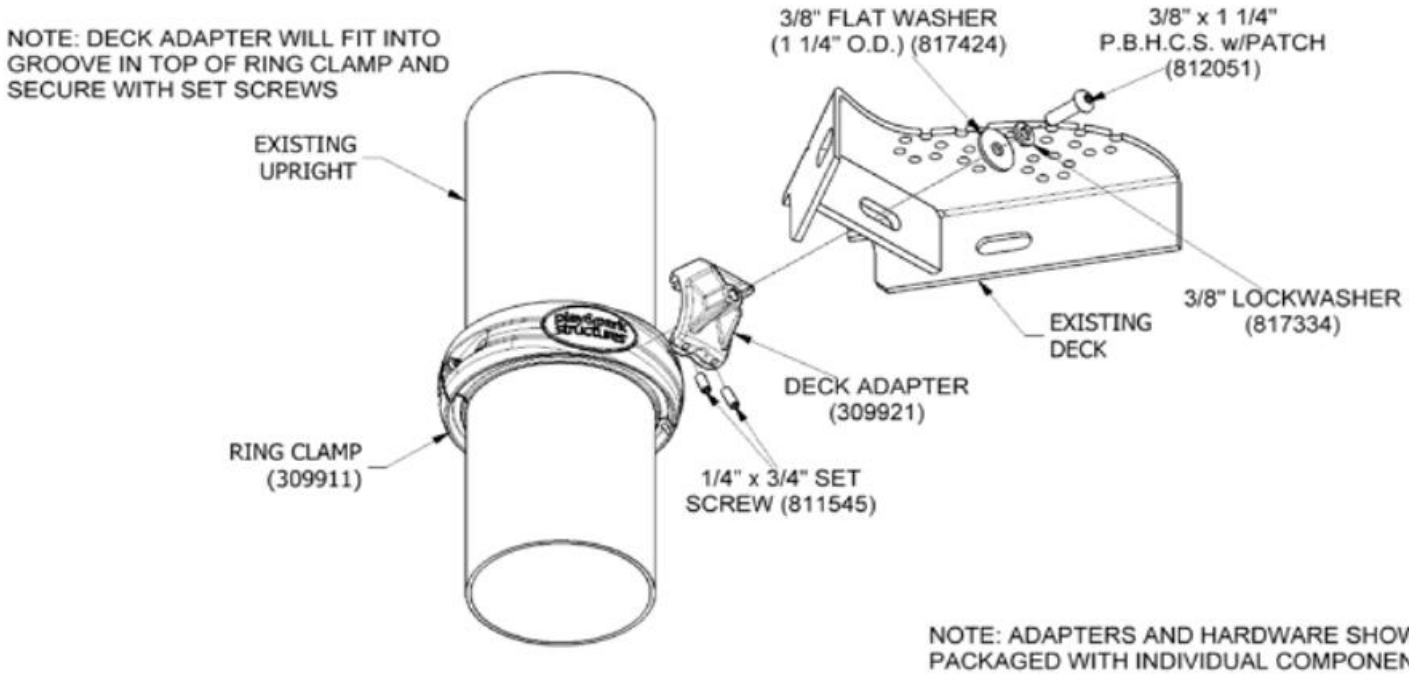
NOTE: THE USE OF LOCTITE IS IMPORTANT.

IMPORTANT: ORIENTATION OF BOLT IS CRITICAL.

NOTE: THE RING CLAMP WILL HAVE A SMALL GAP AT THE CONNECTION POINT AFTER ATTACHED. THE GAP IS DESIGNED FOR DRAINAGE AND TO ENSURE A PROPER FIT.

NOTE: MAKE SURE THE PLAY & PARK STRUCTURES LOGO IS ORIENTED CORRECTLY AND VISIBLE FROM GROUND LEVEL.

TYPICAL SUPERMAX RING CLAMP ASSEMBLY



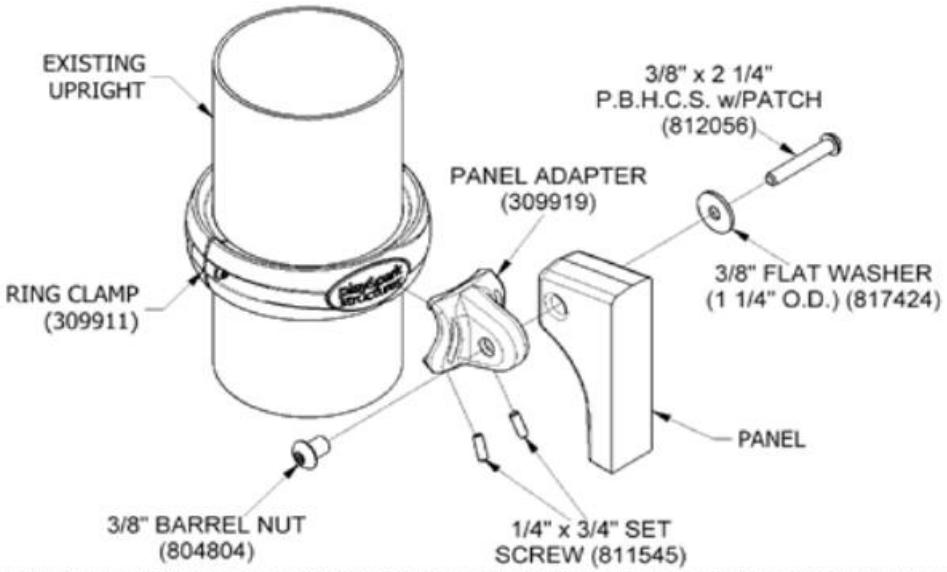
NOTE: ADAPTERS AND HARDWARE SHOWN ARE PACKAGED WITH INDIVIDUAL COMPONENT HARDWARE COMPLETE PACKAGES

Issued/Revised: 4/11/2016

TYPICAL SUPERMAX DECK CONNECTION

SHEET 1 OF 2

Clamp Assembly Details

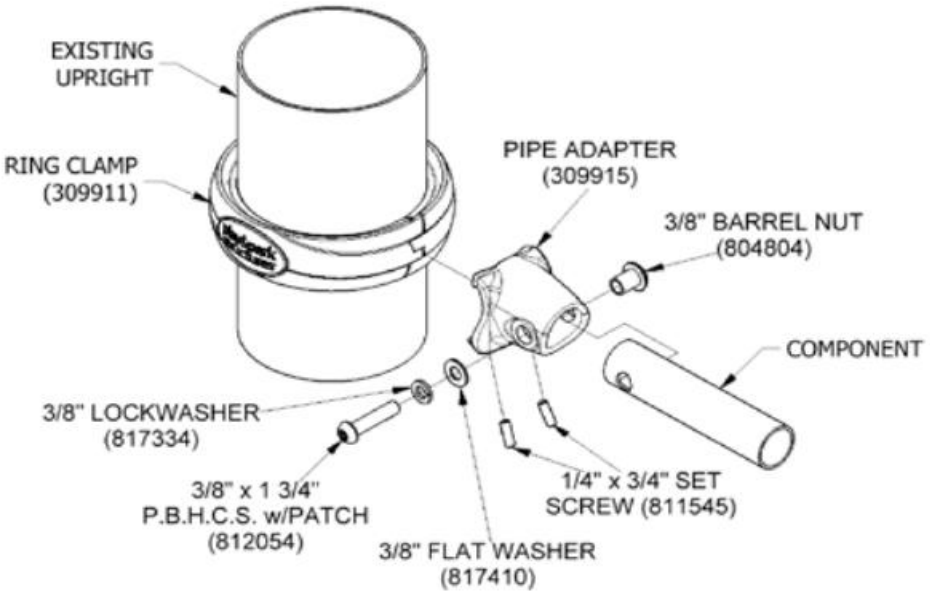


NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.

TYPICAL SUPERMAX PANEL ADAPTER ASSEMBLY

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



TYPICAL SUPERMAX PIPE ADAPTER ASSEMBLY

Issued/Revised: 4/11/2016

SHEET 2 OF 2

DETAILED MAINTENANCE RECORD

play&park structures
A PLAYCORE Company

Play Area Site Name _____

Play Area Location or Description _____

Date _____ Inspector _____

Item Number	OK	Problem	Solution	Date Repaired	Initials

PLAYGROUND MAINTENANCE CHECKLIST

play&park structures
A PLAYCORE Company

Maintaining your playground equipment as well as its surrounding area is essential to minimizing the risk of injury to users as well as maximizing its useful lifespan. Play & Park Structures recommends the following maintenance procedures be followed:

On a daily basis: A responsible individual should conduct a brief visual check for structural defects, signs of vandalism and litter of foreign matter that needs to be removed.

On a weekly basis: A responsible individual should complete this checklist. Any required repairs should be detailed on the separate **Detailed Maintenance Record**, and once they are completed, both should be filed for future reference. A separate file and form should be kept for each play structure at each location.

IMPORTANT: Always refer to - and comply with - the separate *Safety Guidelines* and ASTM and CPSC Guidelines. The play structure(s) should be barricaded so that it cannot be used while repairs are being completed.

	Item to be Checked (use the following page to record a brief description of the necessary repairs)	**OK**	**Repairs Required**	**Date Repaired**
A.	**Play Structures in General**			
	Post and component footings are not exposed, cracked or loose			
	1. Clamps show no signs of slippage, cracking, or failure			
	2. Clamp drive rivets and hardware are secure			
	3. Welds are intact and free of cracks			
	a. Slide and Deck Enclosures			
	b. Overhead Activities			
	c. Climbers			
	4. No rust or corrosion			
	5. No splintered, cracked, gouged or otherwise deteriorated plastics; check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create an entrapment as specified on ASTM-F-1487 section 6.			
	6. No scratched, chipped, or peeling paint			
	7. Metal parts show no visible cracks, bending, warping or breakage			
	8. No missing bolts, nuts, etc.			
	9. All bolts, nuts, and fasteners are tight			
	10. All joints are secure (pay special attention to sectional slides, flush mounted decks, and pipe connections)			
	11. All swivels, bearings, grease fittings, and moving parts are well lubricated and not excessively worn (pay special attention to tire swings, tot swings, strap swings, track rides, and trapeze rings)			
	12. No broken or missing parts			
	13. No sharp edges or unsafe protrusions (check metal corners, bolts, etc.)			
	14. No exposed mechanisms, junctions of moving parts or components that will pose possible pinch or crush points			
B.	**Play Events**			
	1. Plastic is not cut or cracked			
	2. All slide supports/anchors are intact and secure			
	3. All 'S' hooks are closed and not excessively worn			
	4. Clatter bridge chain and connections are not excessively worn, especially at connection points			
	5. Connectors and Chain have free movement			
C.	**Surrounding Area**			
	1. Resilient surfacing material is not scattered or excessively worn			
	2. Resilient surfacing material is adequately deep and retains its fall absorbing abilities as specified at the time of installation			
	3. Border around playground is in good condition and has not come loose			
	4. No roots, rocks, or other objects that may cause a tripping or injury hazard			
	5. Area is clean of litter (no broken glass or bottles, etc .)			

This equipment is designed for children 2-5 or 5-12 years old

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY

PARTS LIST								
DESCRIPTION	7200	7201	7202	7205	7206	7207	7208	PART NUMBER
ANSWER WHEEL ASS'Y	1	0	0	0	0	0	0	316045
MAZE ASS'Y	0	1	0	0	0	0	0	316049
ECHO CHAMBER ASS'Y	0	0	1	0	0	0	0	316047
STAINED GLASS-YELLOW	0	0	0	1	0	0	0	316051
HYPNO WHEEL ASS'Y	0	0	0	0	1	0	0	316048
STAINED GLASS-GREEN	0	0	0	0	0	1	0	316050
BUBBLE MIRROR	0	0	0	0	0	0	1	316046
TRIANGLE HOUSING	2	2	2	2	2	2	2	**
SCREW CAP	6	6	6	6	6	6	6	**
SCREW, FLAT WASHER, RETAINER	3	3	3	3	3	3	3	**

Unless Otherwise Specified, All Units of Measure are Each
***Included in Assembly*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

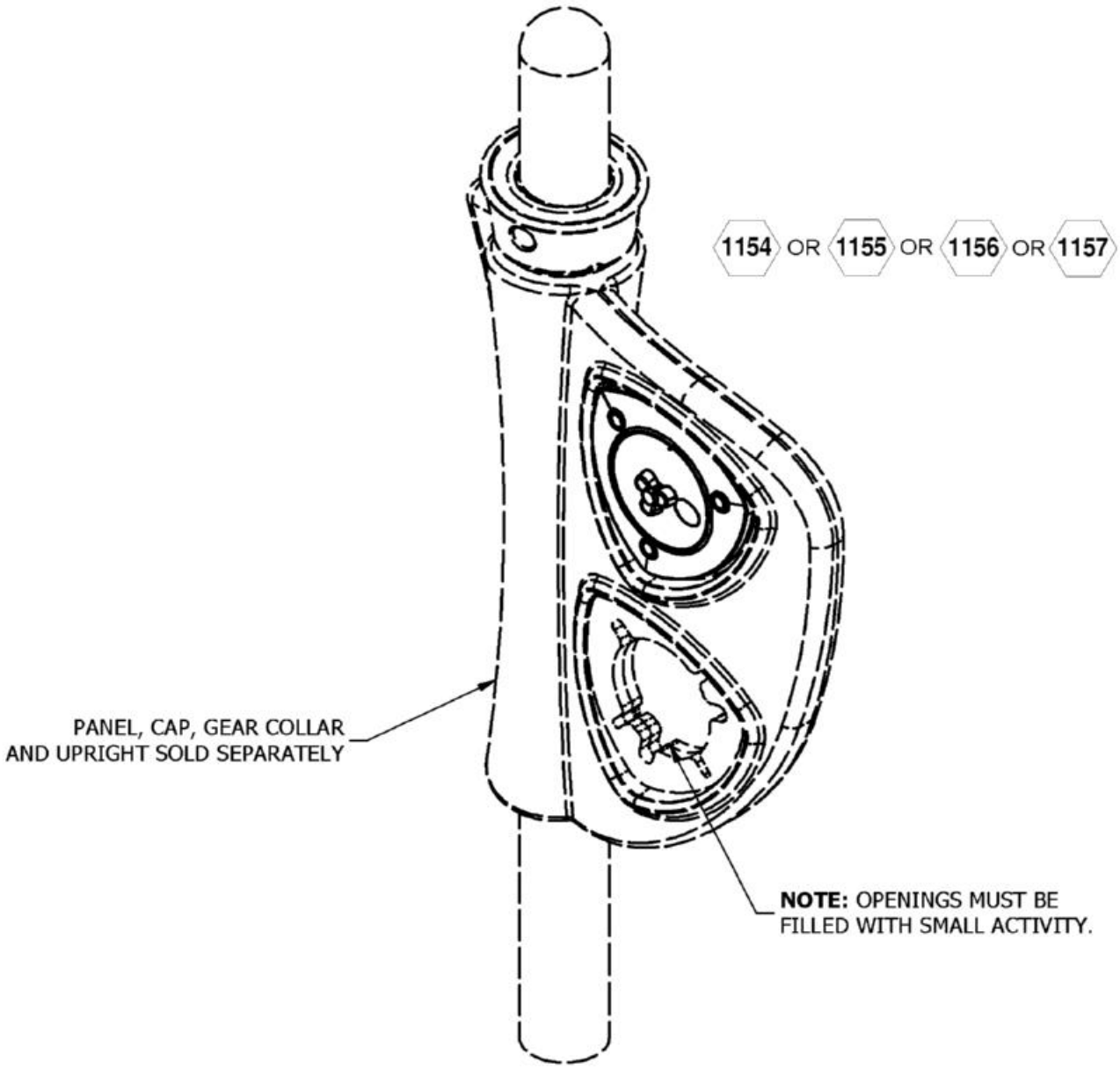
IMPORTANT- ALL OPENINGS MUST BE FILLED WITH A SMALL ACTIVITY.

1. Locate Panel to receive small activity.
2. Place Triangle Housing into small opening in panel. Housing is keyed so that bosses and fins fit into opening. Rotate Housing if needed until it fits into the opening.
3. Take the remaining Housing and place activity so that notches in activity align with ribs on Housing. Refer to Details 1154, 1155, 1156, and 1157 for specific activity. **NOTE:** Remove any protective film that may be on Activity Panel before assembly.
4. Align Housing with openings in Panel and attach the two housings together. Cover with Screw Cap as shown in Details Details 1154, 1155, 1156, and 1157.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY

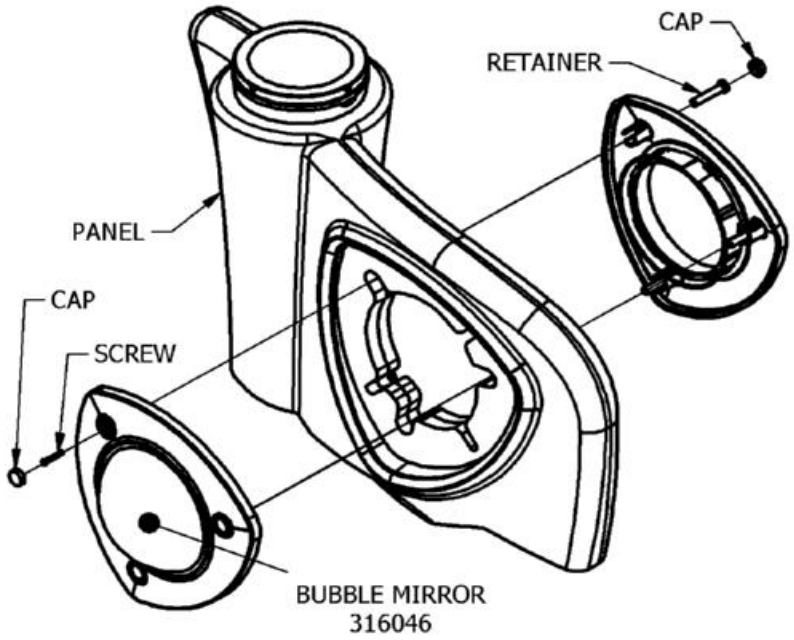


FINISHED ASSEMBLY
7200 VERSION SHOWN

⬡ = INSTALLATION DETAIL

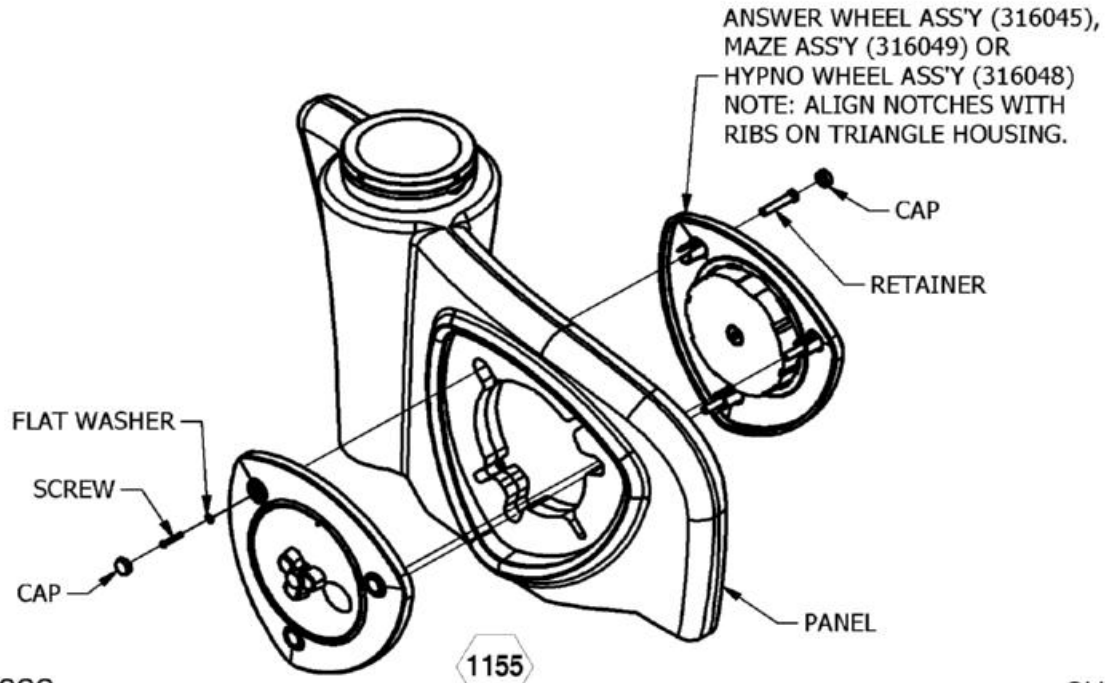
Issued/Revised: 6/21/2022

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY



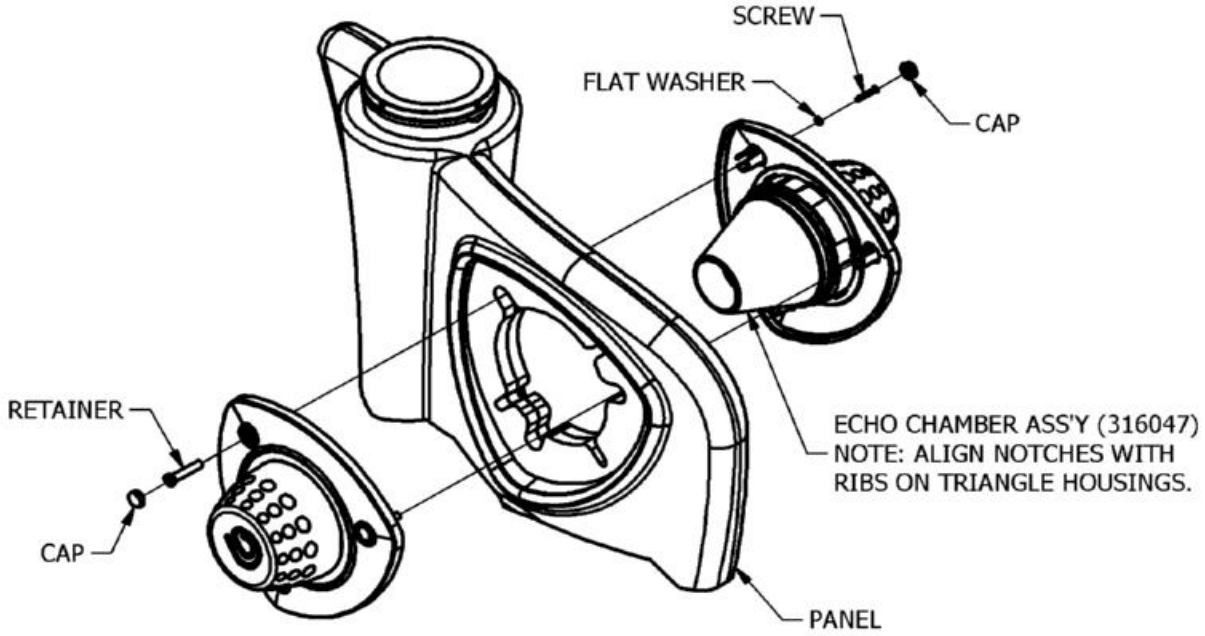
1154

NOTE: IF PRESENT, REMOVE ANY PROTECTIVE FILM THAT MAY BE ON THE ACTIVITY BEFORE ASSEMBLING.



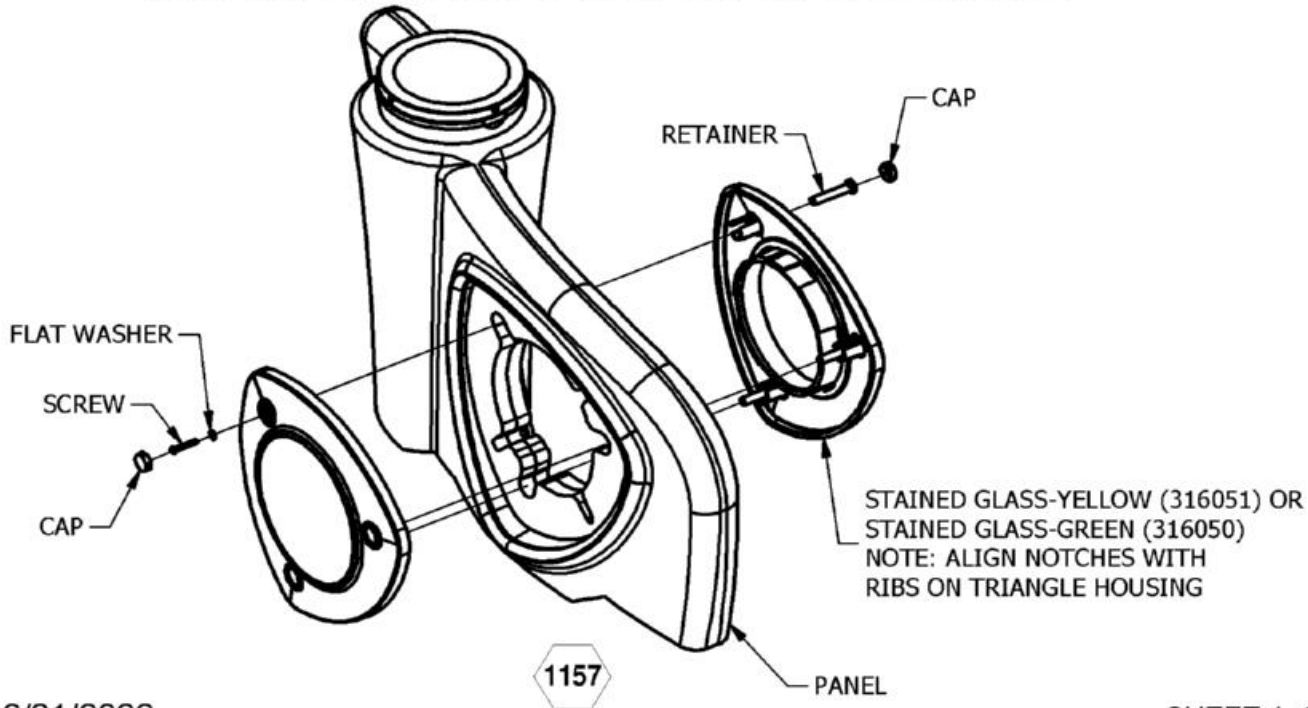
1155

7200 ANSWER WHEEL ASSEMBLY, 7201 MAZE ASSEMBLY, 7202 ECHO CHAMBER ASSEMBLY, 7205 STAINED GLASS-YELLOW, 7206 HYPNO WHEEL ASSEMBLY, 7207 STAINED GLASS-GREEN, 7208 BUBBLE MIRROR ASSEMBLY



1156

NOTE: IF PRESENT, REMOVE ANY PROTECTIVE FILM THAT MAY BE ON THE ACTIVITY BEFORE ASSEMBLING.



1157

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN

Parts List			
DESCRIPTION	7341	7342	PART NUMBER
JAMBOX SENSOR 20" ROTOGEN	1	0	218235
JAMBOX SENSOR w/BACK 20" ROTOGEN	0	1	218236
SPACER	6	0	212416
HARDWARE COMPLETE	1	0	212436
HARDWARE COMPLETE	0	1	312646
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	0	4	812056
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	0	4	812058
3/8" x 3" P.B.H.C.S. w/PATCH	4	0	812059
3/8" x 3 3/4" P.B.H.C.S. w/PATCH	4	0	812076
3/8" FLAT WASHER	8	8	817410
3/8" LOCK WASHER	8	0	817334
3/8" BARREL NUT	0	8	804804
3/8" T-NUT	4	0	804556

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** ***Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.***
2. Attach Jam Box One Sided to Spacers using 3/8" x 3" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut. See Detail 542.
3. Attach Jam Box One Sided and Spacers to Rotomold using 3/8" x 3 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 543.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

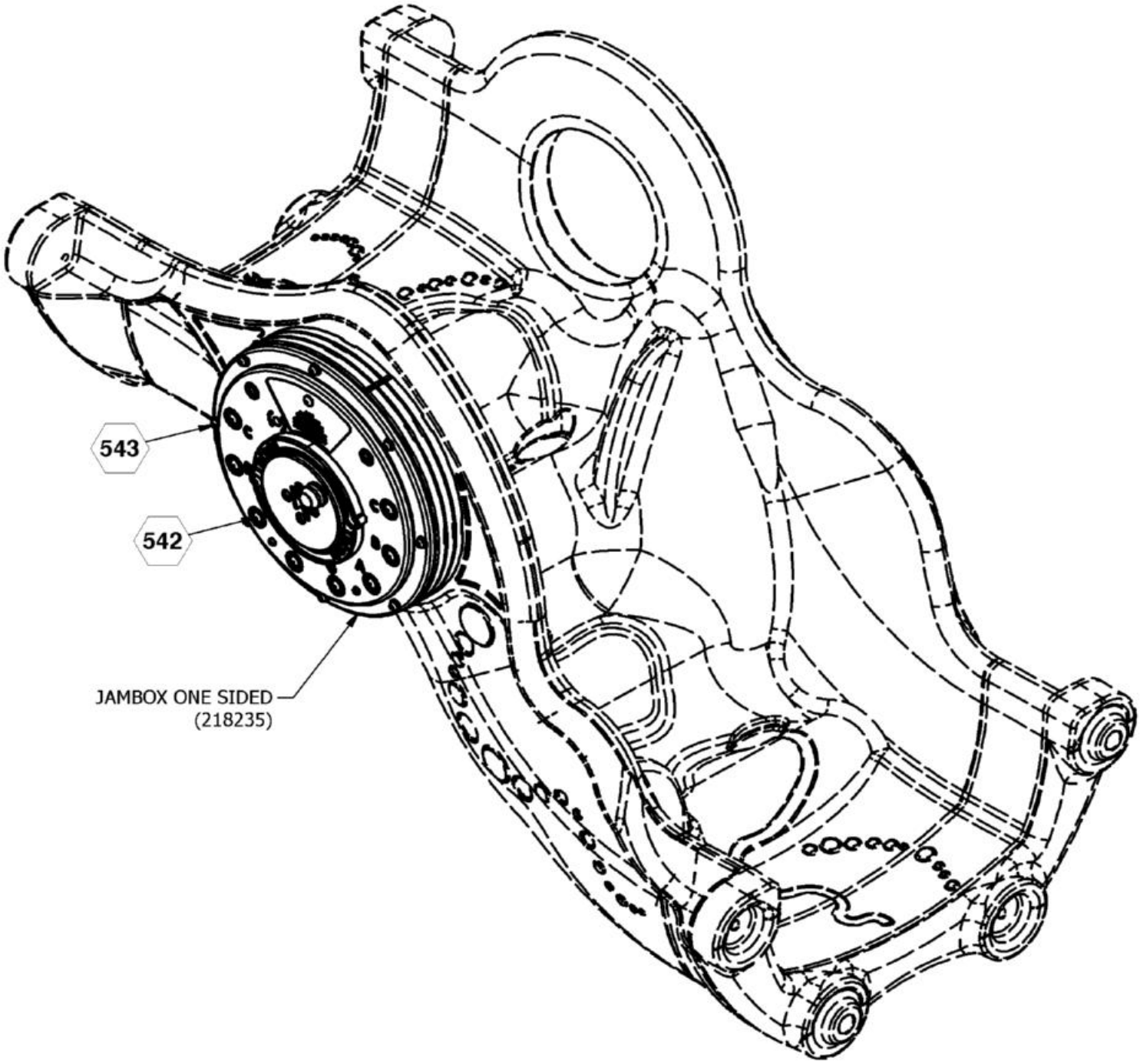
INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** ***Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.***
2. Attach Jam Box Two Sided and Rings to Rotomold using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 816.
3. Attach Back Cover to Rotomold using 3/8" x 2 3/4" P.B.H.C.S w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 817.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
6. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN



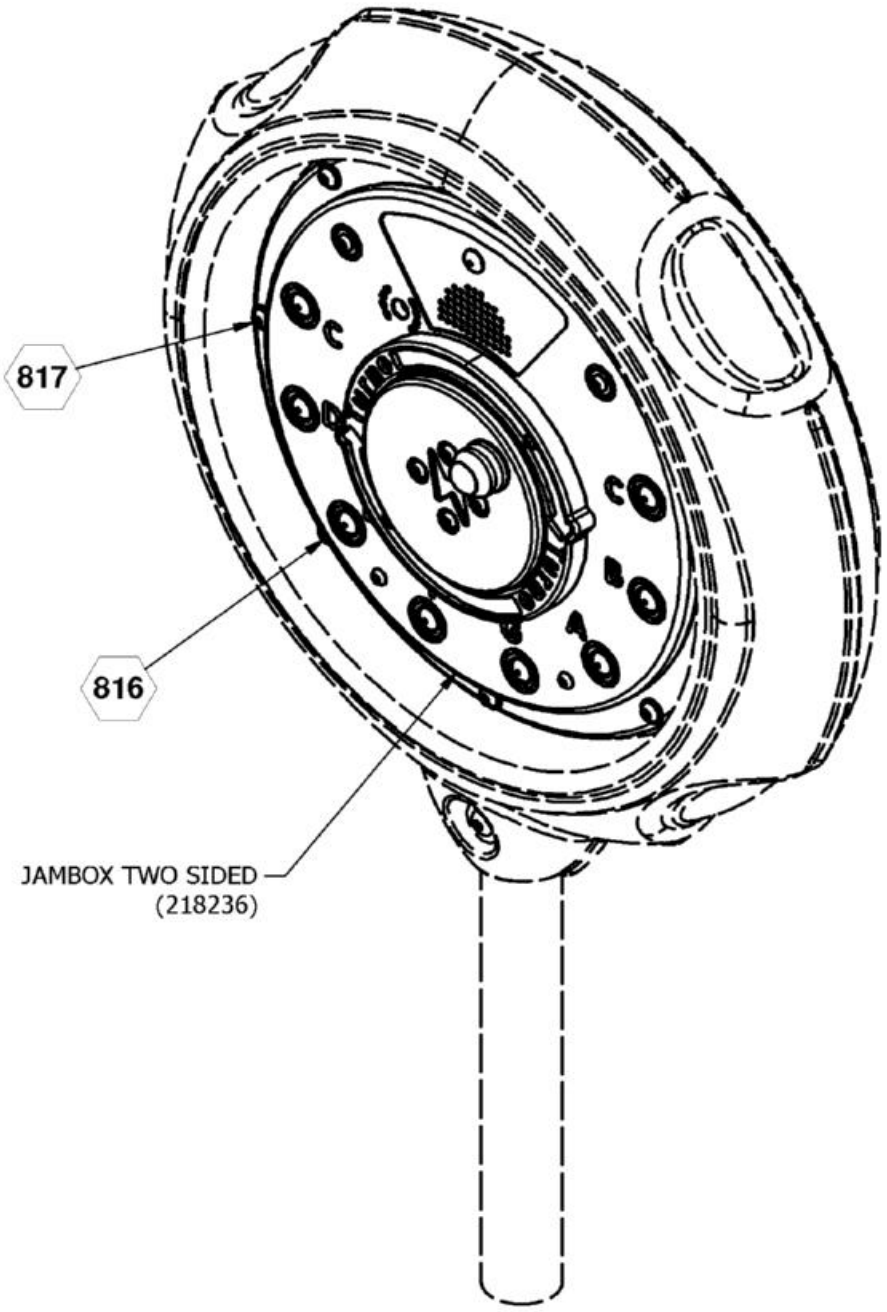
FINISHED ASSEMBLY
7341 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/6/2022

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN

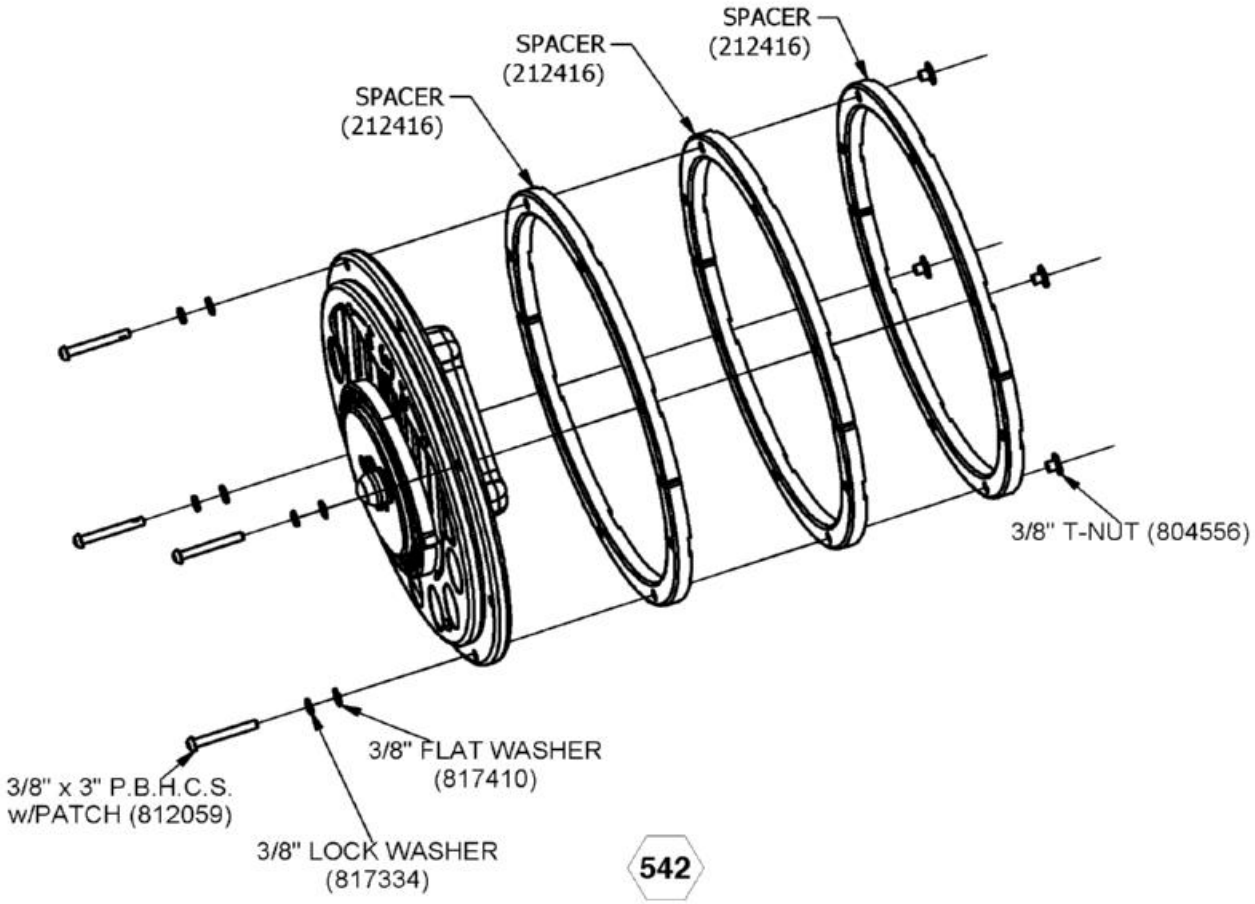


FINISHED ASSEMBLY
7342 SHOWN

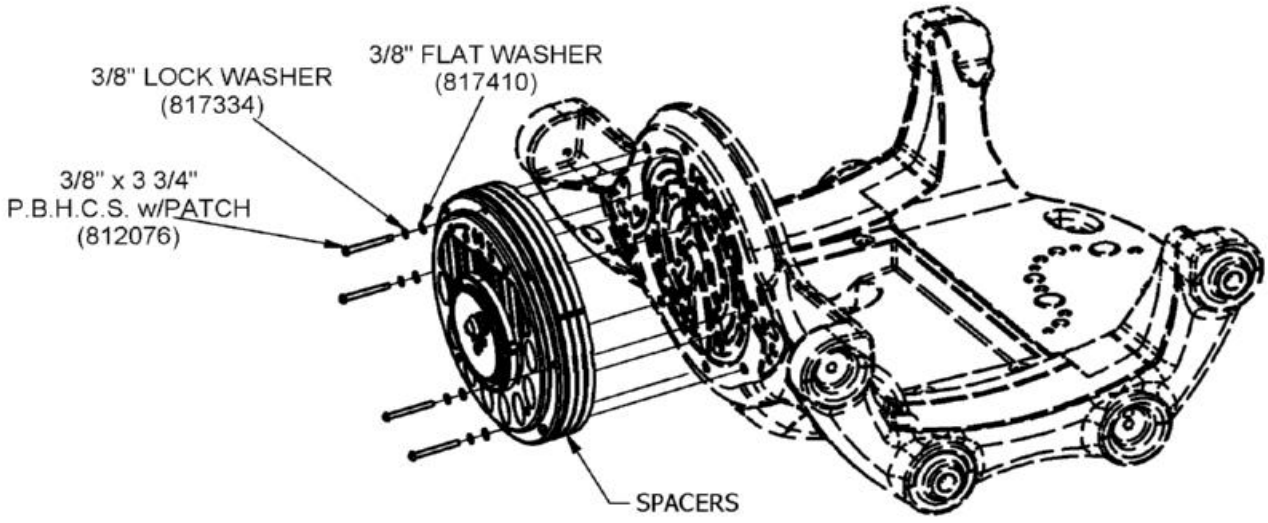
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN

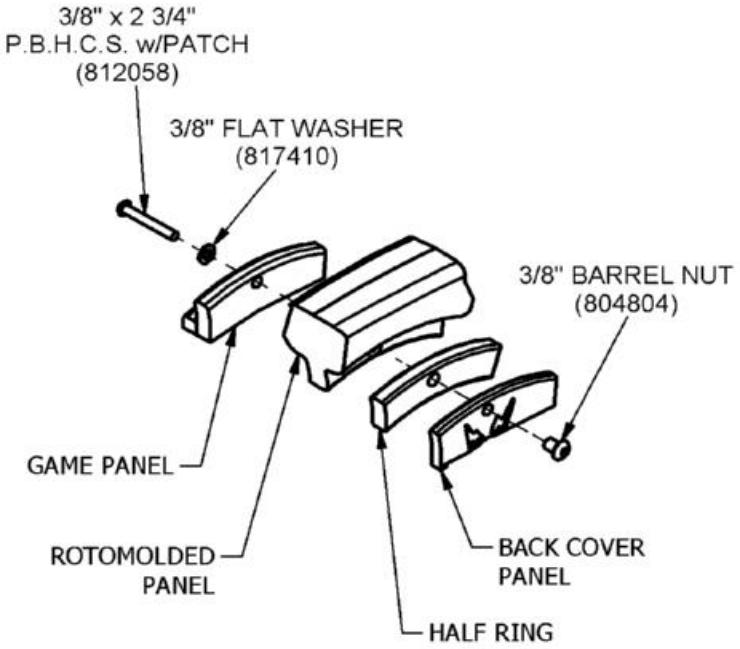


542

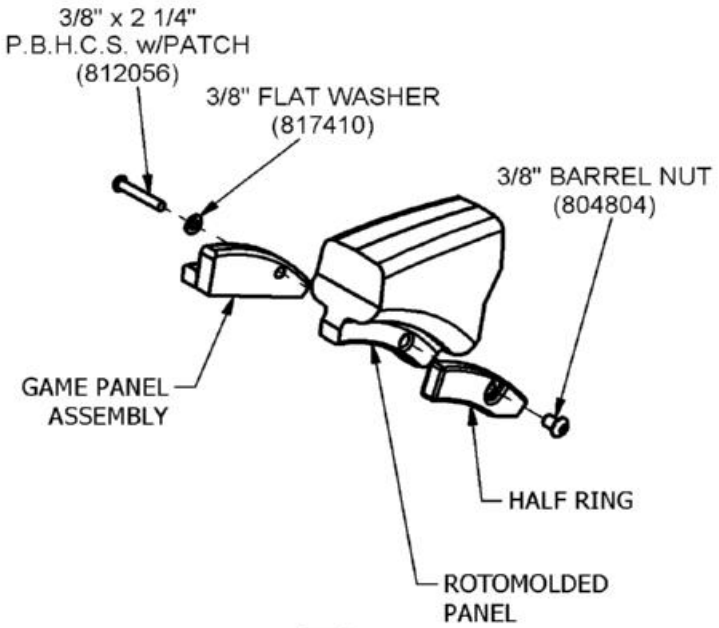


543

7341 20" ONE SIDED JAMBOX ROTOGEN
7342 20" TWO SIDED JAMBOX ROTOGEN



817



816

7354 12" TWO SIDED RAIN
7355 20" TWO SIDED RAIN

Parts List			
DESCRIPTION	7354	7355	PART NUMBER
12" RAIN PANEL	1	0	212473
20" RAIN PANEL	0	1	212474
HARDWARE COMPLETE	1	0	212465
HARDWARE COMPLETE	0	1	212890
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	0	812051
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	0	8	812053
3/8" LOCK WASHER	5	8	817334
3/8" FLAT WASHER	5	8	817410
3/8" BARREL NUT	5	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Rain:
The Rain shall be fabricated from 1/2" high density polyethylene, 14 ga. Stainless steel, and 3/16" thick UV inhibitive acrylic with 4.5mm stainless steel balls.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing

7354 12" TWO SIDED RAIN
7355 20" TWO SIDED RAIN

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 12" Rain Panel to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 546.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

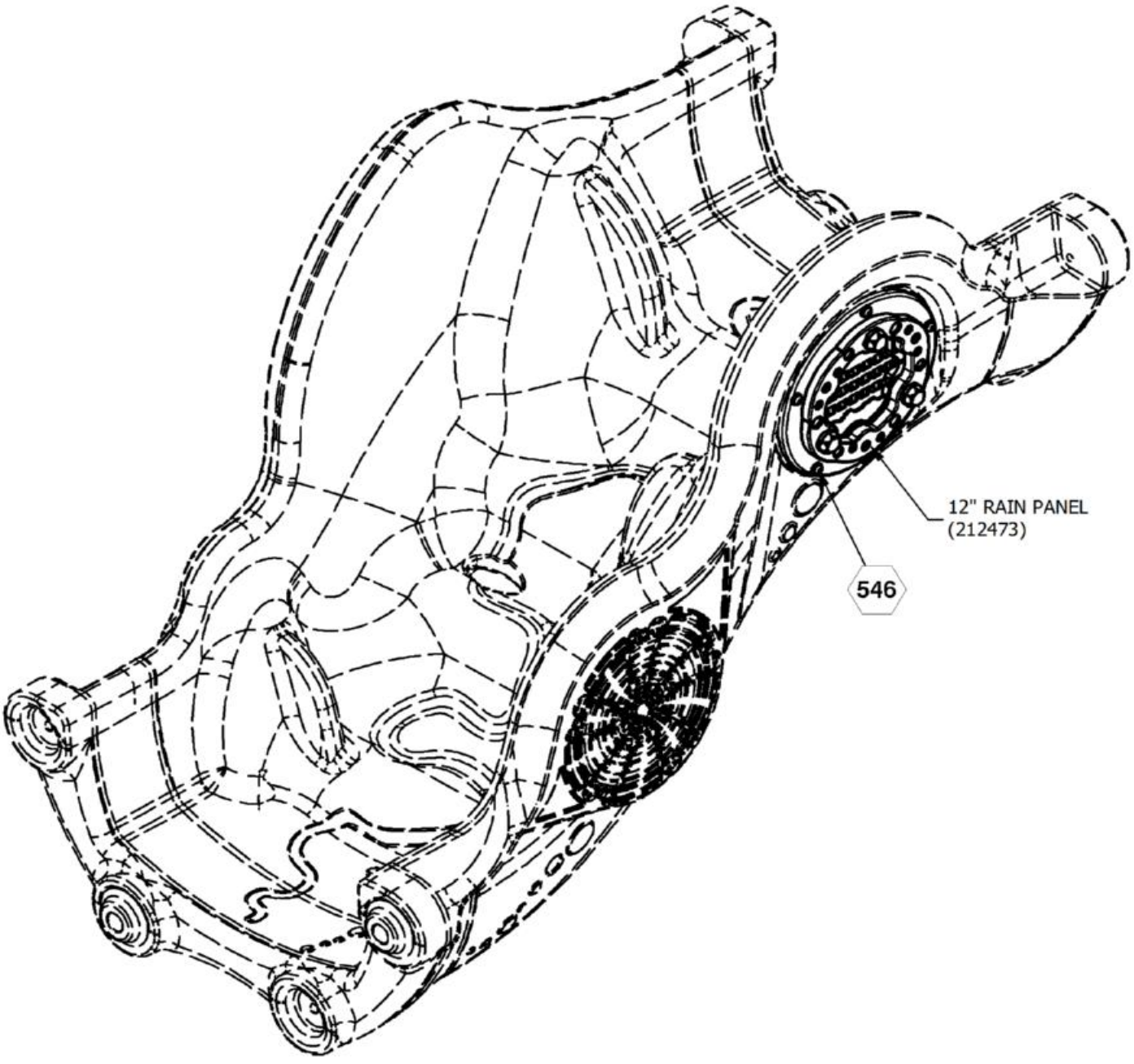
INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 20" Rain Panel to Rotomold using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 878.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7354 12" TWO SIDED RAIN
7355 20" TWO SIDED RAIN

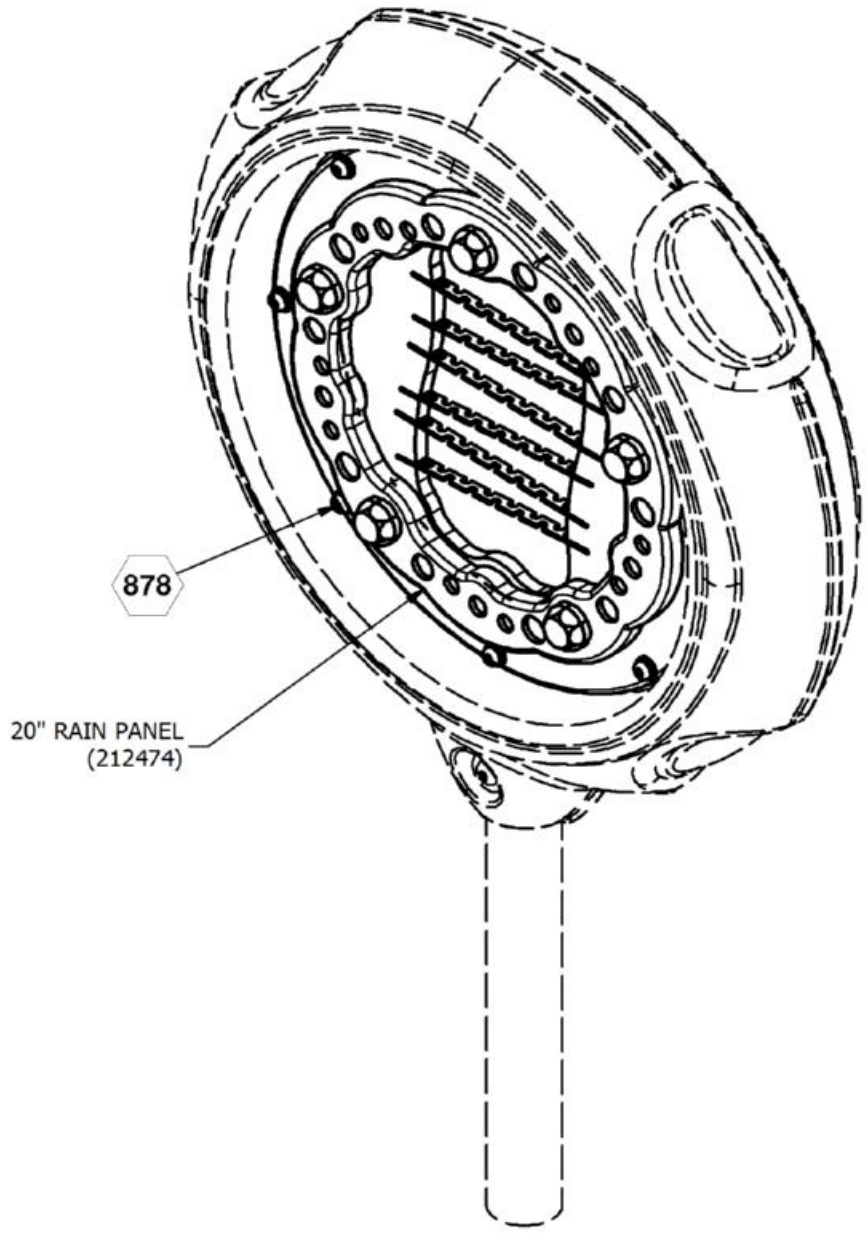


FINISHED ASSEMBLY
7354 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7354 12" TWO SIDED RAIN
7355 20" TWO SIDED RAIN

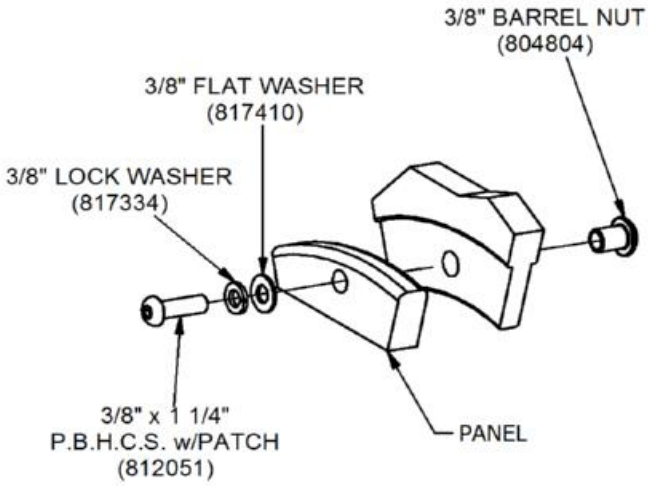


FINISHED ASSEMBLY
7355 SHOWN

⬡ = INSTALLATION DETAIL

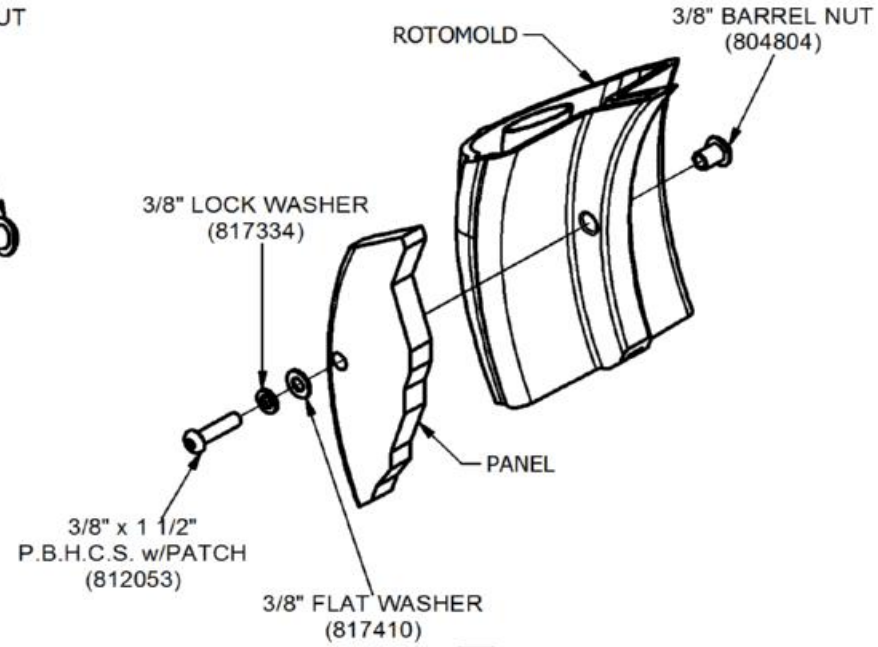
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7354 12" TWO SIDED RAIN
7355 20" TWO SIDED RAIN



NOTE: DISCARD BARREL NUT FOR ROTOMOLD APPLICATION

546



878

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO

Parts List				
DESCRIPTION	7356	7357	7358	PART NUMBER
12" PACHINKO PANEL ONE SIDED	1	0	0	212476
20" PACHINKO PANEL TWO SIDED	0	1	0	212477
20" PACHINKO PANEL ONE SIDED	0	0	1	212478
HARDWARE COMPLETE	0	0	1	212472
HARDWARE COMPLETE	1	0	0	212479
HARDWARE COMPLETE	0	1	0	212890
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	0	8	0	812053
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	5	0	8	812054
3/8" LOCK WASHER	5	8	8	817334
3/8" FLAT WASHER	5	8	8	817410
3/8" BARREL NUT	5	8	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Pachinko:
The Pachinko shall be fabricated from 1/2" high density polyethylene, nylon spacers, and 3/16" thick UV inhibitive acrylic with 10mm nylon ball.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO

7356 & 7358 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 12" Pachinko Panel One Sided or 20" Pachinko Panel One Sided to Rotomold using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 548.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

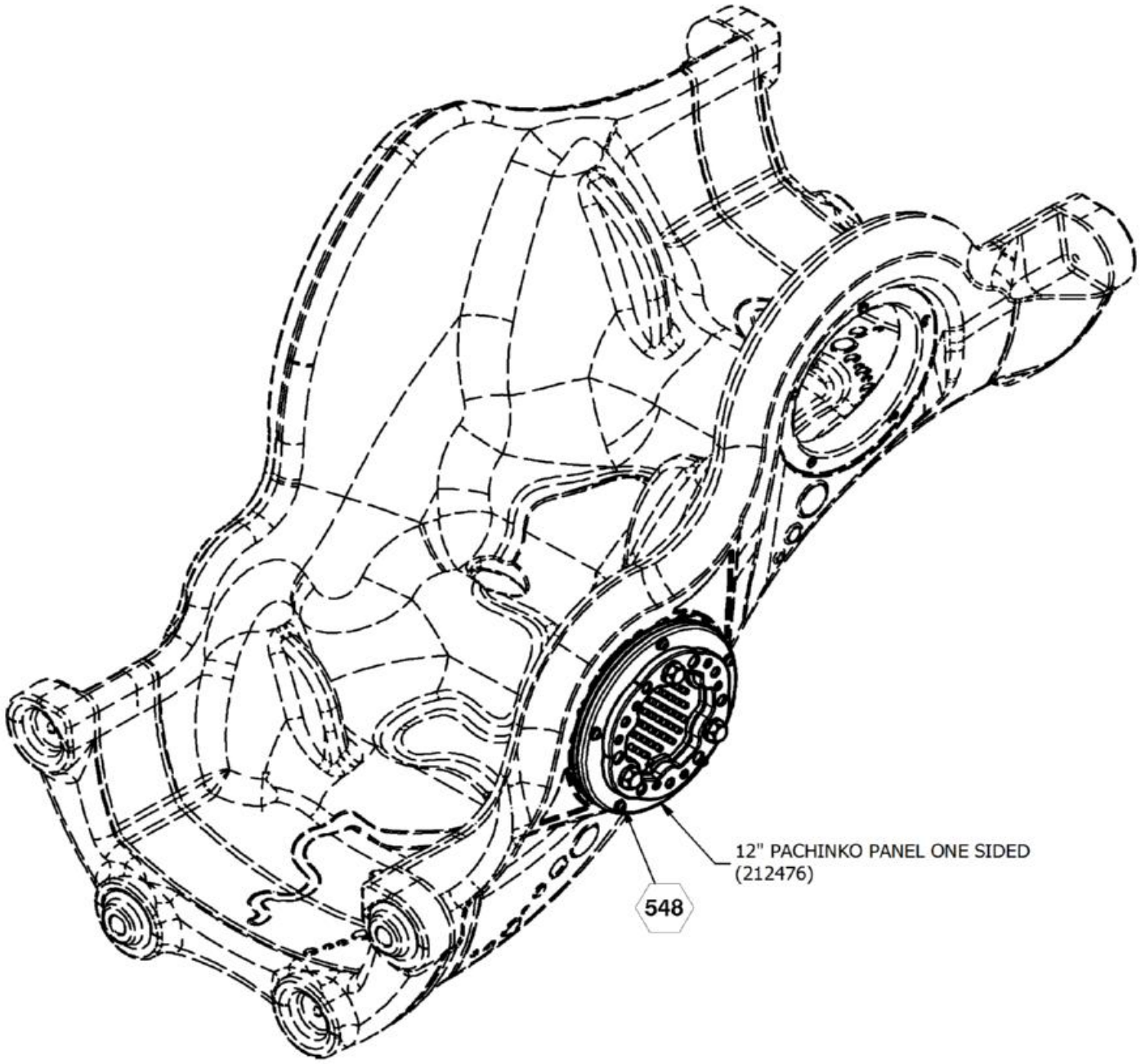
7357 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 20" Pachinko Panel Two Sided to Rotomold using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 878.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO



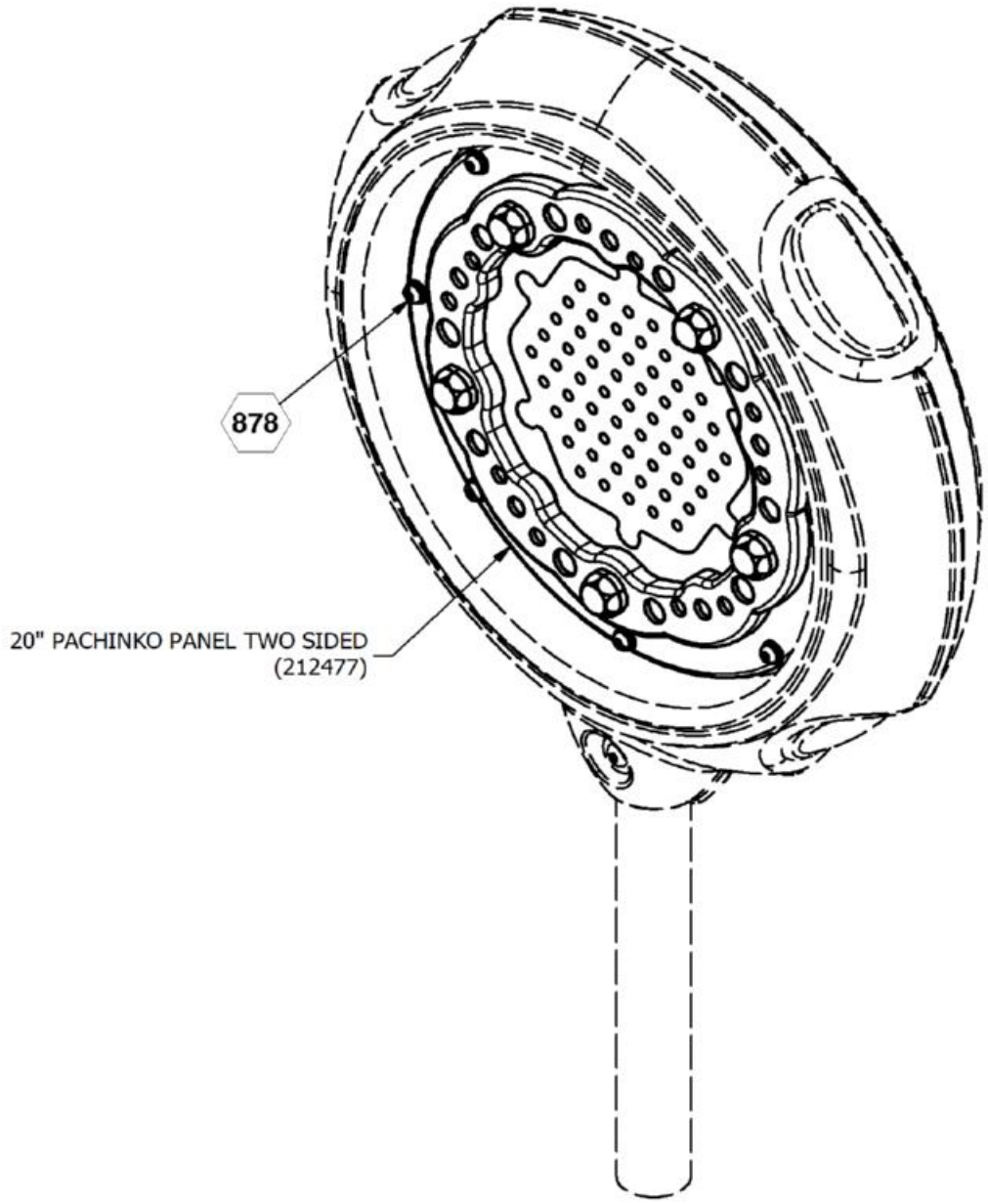
FINISHED ASSEMBLY
7356 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/5/2017

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO

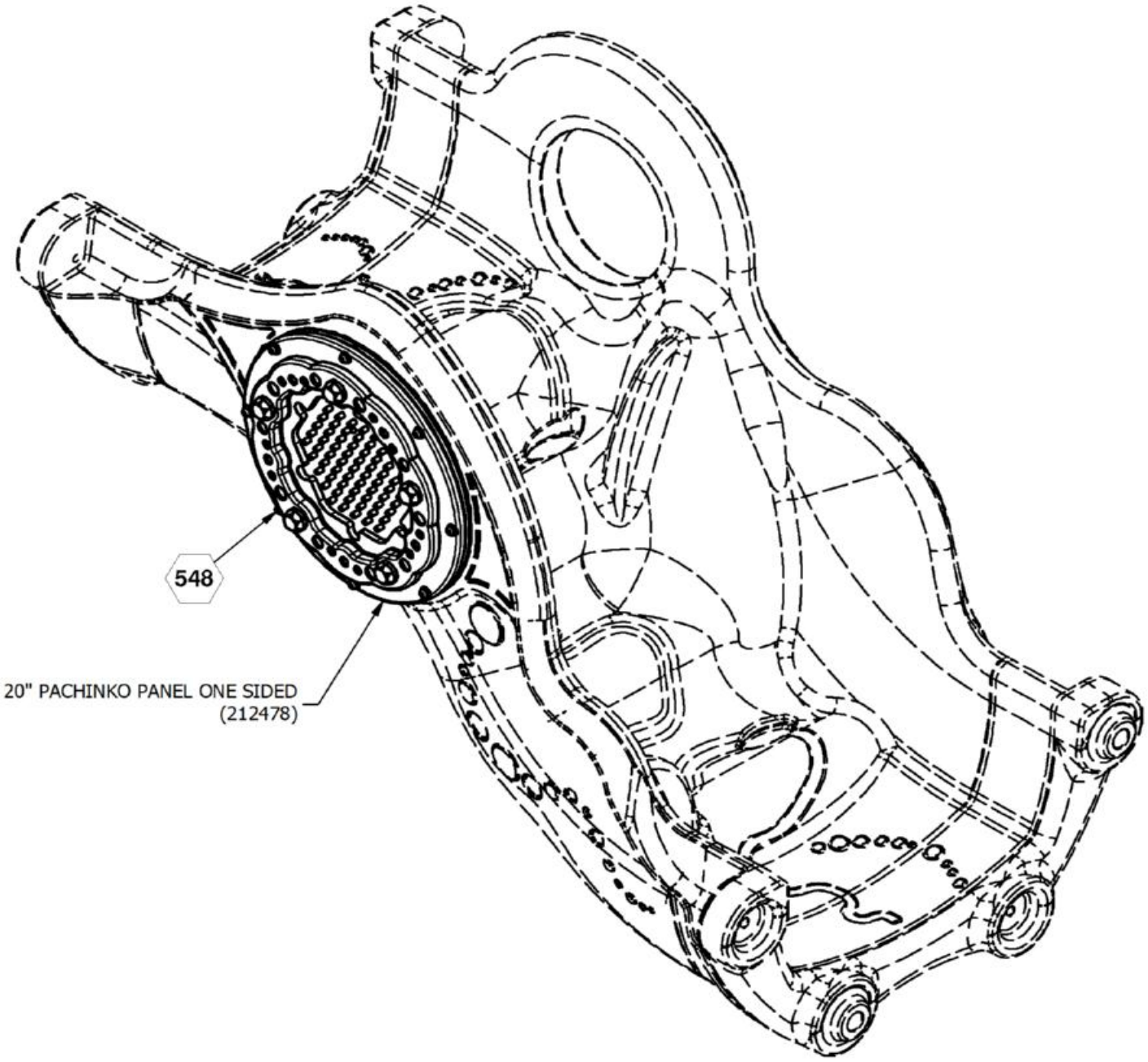


FINISHED ASSEMBLY
7357 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO



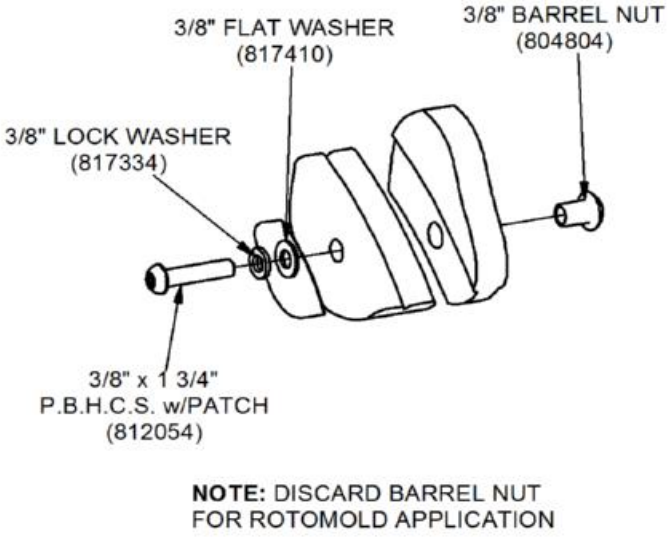
= INSTALLATION DETAIL

FINISHED ASSEMBLY
7358 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

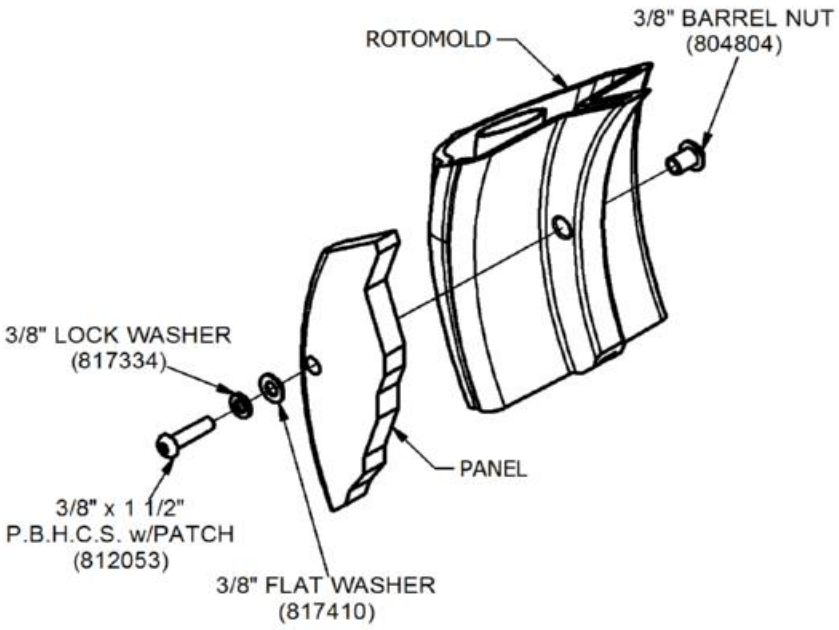
Issued/Revised: 5/5/2017

7356 12" ONE SIDED PACHINKO
7357 20" TWO SIDED PACHINKO
7358 20" ONE SIDED PACHINKO



NOTE: DISCARD BARREL NUT FOR ROTOMOLD APPLICATION

548



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7359 12" TWO SIDED ROLLER BALLS
7360 20" TWO SIDED ROLLER BALLS

Parts List			
DESCRIPTION	7359	7360	PART NUMBER
12" ROLLER BALL PANEL	1	0	212485
20" ROLLER BALL PANEL	0	1	212486
HARDWARE COMPLETE	1	0	212465
HARDWARE COMPLETE	0	1	212890
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	0	812051
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	0	8	812053
3/8" LOCK WASHER	5	8	817334
3/8" FLAT WASHER	5	8	817410
3/8" BARREL NUT	5	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Roller Ball:
The Roller Ball shall be fabricated from 1/2" high density polyethylene which encapsulates colored acrylic spheres.

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

7359 12" TWO SIDED ROLLER BALLS
7360 20" TWO SIDED ROLLER BALLS

7359 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 12" Roller Ball Panel to Rotomold using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 546.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

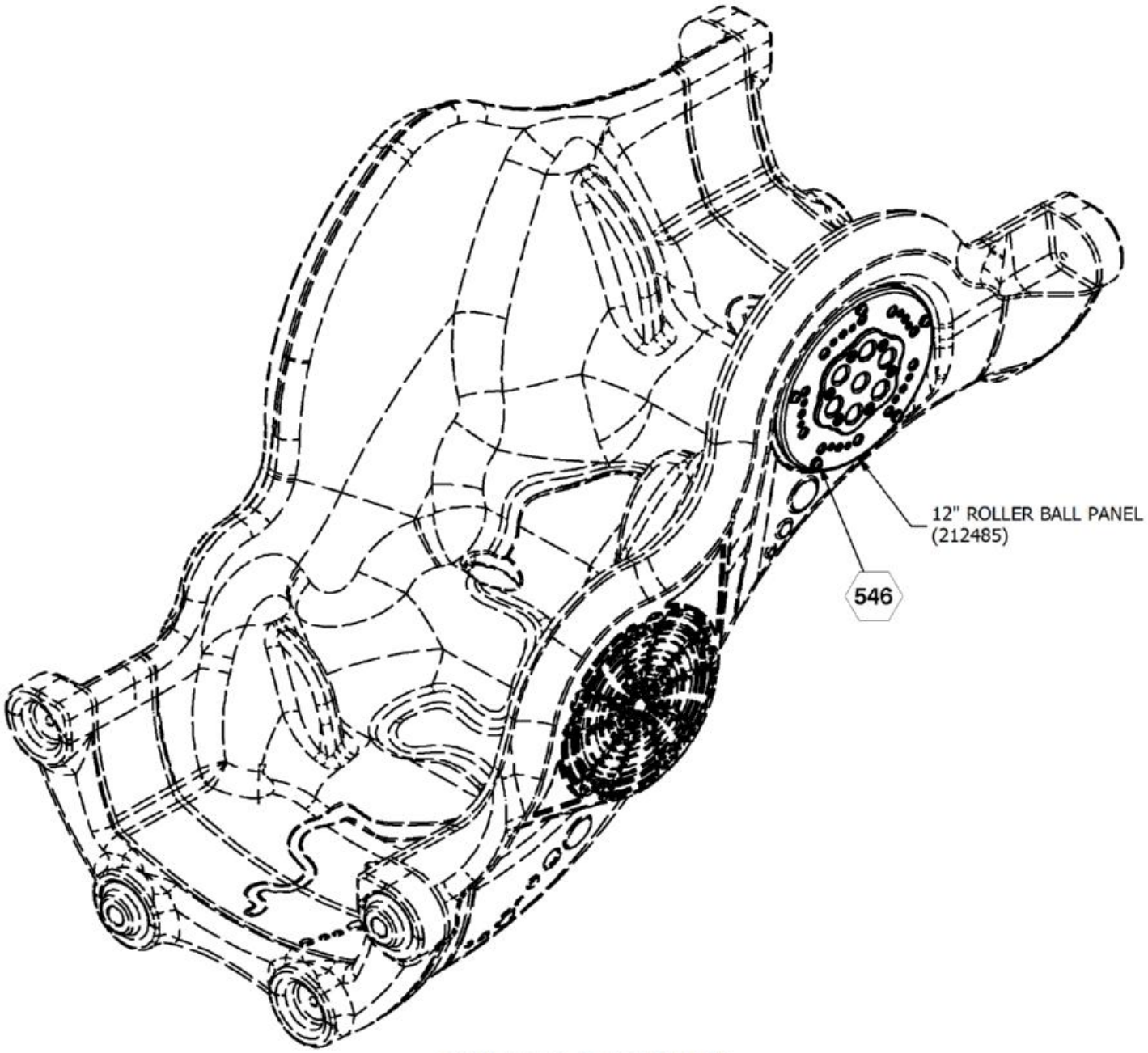
7360 INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding sufacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*
2. Attach 20" Roller Ball Panel to Rotomold using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 878.
3. Plumb and level the entire assembly and tighten all fasteners.
4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
5. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

7359 12" TWO SIDED ROLLER BALLS
7360 20" TWO SIDED ROLLER BALLS



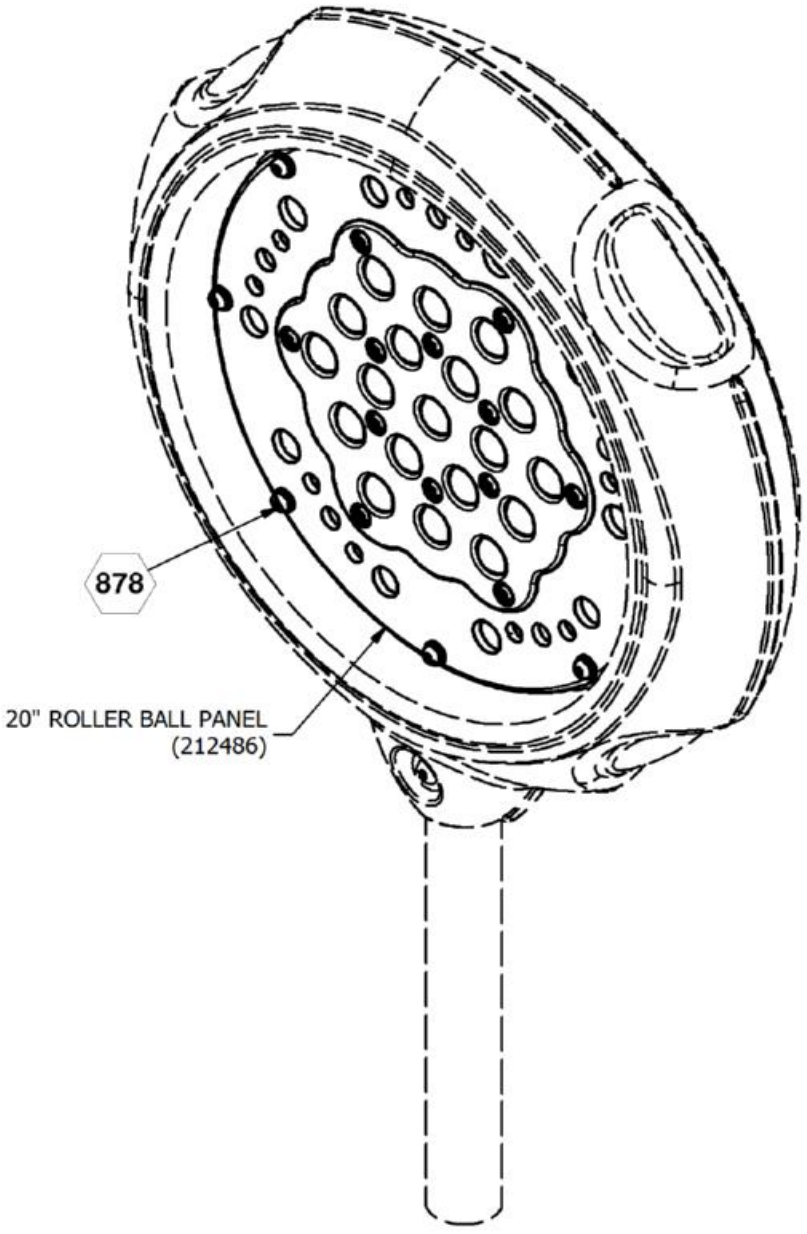
FINISHED ASSEMBLY
7359 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 2/8/2017

7359 12" TWO SIDED ROLLER BALLS
7360 20" TWO SIDED ROLLER BALLS

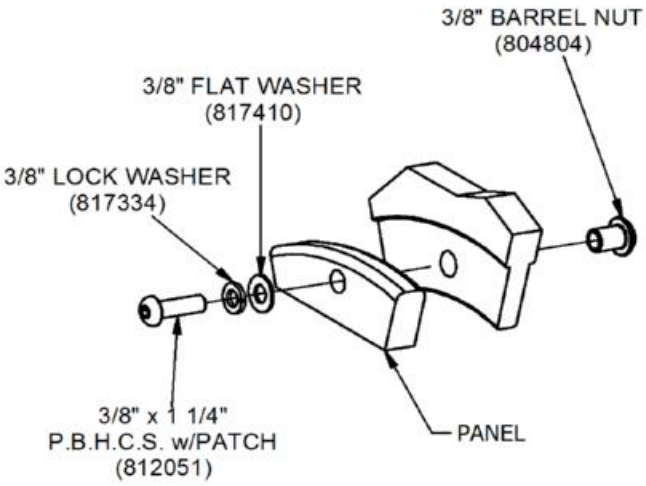


FINISHED ASSEMBLY
7360 SHOWN

⬡ = INSTALLATION DETAIL

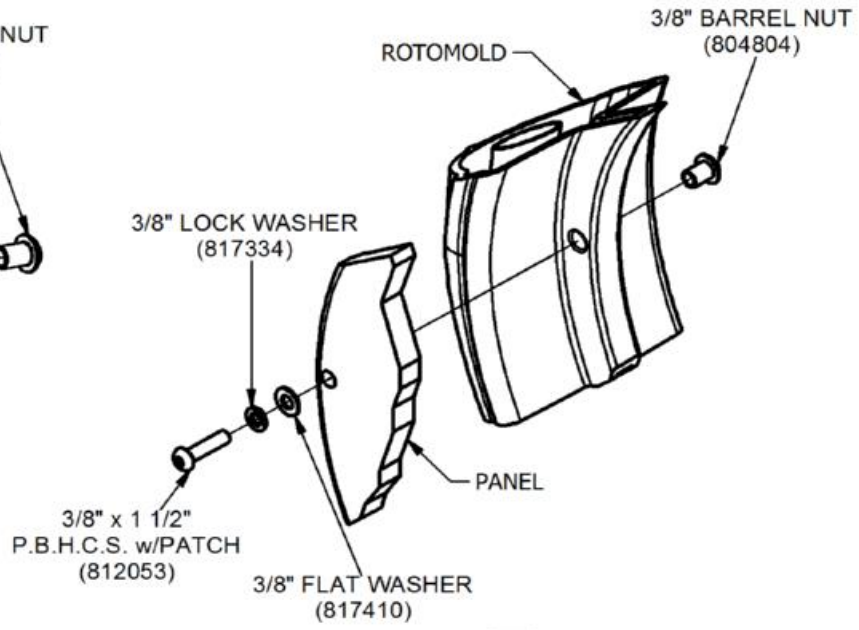
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

7359 12" TWO SIDED ROLLER BALLS
7360 20" TWO SIDED ROLLER BALLS



NOTE: DISCARD BARREL NUT FOR ROTOMOLD APPLICATION

546



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SuperMax Play Systems

60040 (11'), 60041 (13'), 60042 (14'), 60089 (12'), 60246 (10'), 60944 (15'), 60945 (9'), 61540 (4'), & 61541 (5') SUPERMAX POST W/O CAP

(ADD G PREFIX FOT GALV. POST)

Parts List										
DESCRIPTION	60040	G60040	60041	G60041	60042	G60042	60089	G60089	60246	PART NUMBER
5" O.D. POST (ALUMINUM) 11'	1	0	0	0	0	0	0	0	0	302277
5" O.D. POST (GALVANIZED) 11'	0	1	0	0	0	0	0	0	0	G02277
5" O.D. POST (ALUMINUM) 13'	0	0	1	0	0	0	0	0	0	302278
5" O.D. POST (GALVANIZED) 13'	0	0	0	1	0	0	0	0	0	G02278
5" O.D. POST (ALUMINUM) 14'	0	0	0	0	1	0	0	0	0	302279
5" O.D. POST (GALVANIZED) 14'	0	0	0	0	0	1	0	0	0	G02279
5" O.D. POST (ALUMINUM) 12'	0	0	0	0	0	0	1	0	0	301921
5" O.D. POST (GALVANIZED) 12'	0	0	0	0	0	0	0	1	0	G01921
5" O.D. POST (ALUMINUM) 10'	0	0	0	0	0	0	0	0	1	301923

Parts List										
DESCRIPTION	G60246	60944	G60944	60945	G60945	61540	G61540	61541	G61541	PART NUMBER
5" O.D. POST (GALVANIZED) 10'	1	0	0	0	0	0	0	0	0	301922
5" O.D. POST (ALUMINUM) 15'	0	1	0	0	0	0	0	0	0	305797
5" O.D. POST (GALVANIZED) 15'	0	0	1	0	0	0	0	0	0	G05797
5" O.D. POST (ALUMINUM) 9'	0	0	0	1	0	0	0	0	0	305799
5" O.D. POST (GALVANIZED) 9'	0	0	0	0	1	0	0	0	0	G05799
5" O.D. POST (ALUMINUM) 4'	0	0	0	0	0	1	0	0	0	305616
5" O.D. POST (GALVANIZED) 4'	0	0	0	0	0	0	1	0	0	G05616
5" O.D. POST (ALUMINUM) 5'	0	0	0	0	0	0	0	1	0	305617
5" O.D. POST (GALVANIZED) 5'	0	0	0	0	0	0	0	0	1	G05617

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

60040 (11'), 60041 (13'), 60042 (14'), 60089 (12'), 60246 (10'), 60944 (15'), 60945 (9'), 61540 (4'), & 61541 (5') SUPERMAX POST W/O CAP

(ADD G PREFIX FOT GALV. POST)

INSTALLATION INSTRUCTIONS:

1. Component numbers are for one (1) Upright Post only. Please refer to your Plan Drawing and Footing Diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure up from the lower end of each Upright Post and mark using a felt-tip marker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof naker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be instaling. Using your footing diagram and elevation view as a reference, move and dig holes accordingly.

3. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

4. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete has a downward slope of 45° at the top away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like nuts, bolts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

60040 (11'), 60041 (13'), 60042 (14'), 60089 (12'), 60246 (10'), 60944 (15'), 60945 (9'), 61540 (4'), & 61541 (5') SUPERMAX POST W/O CAP

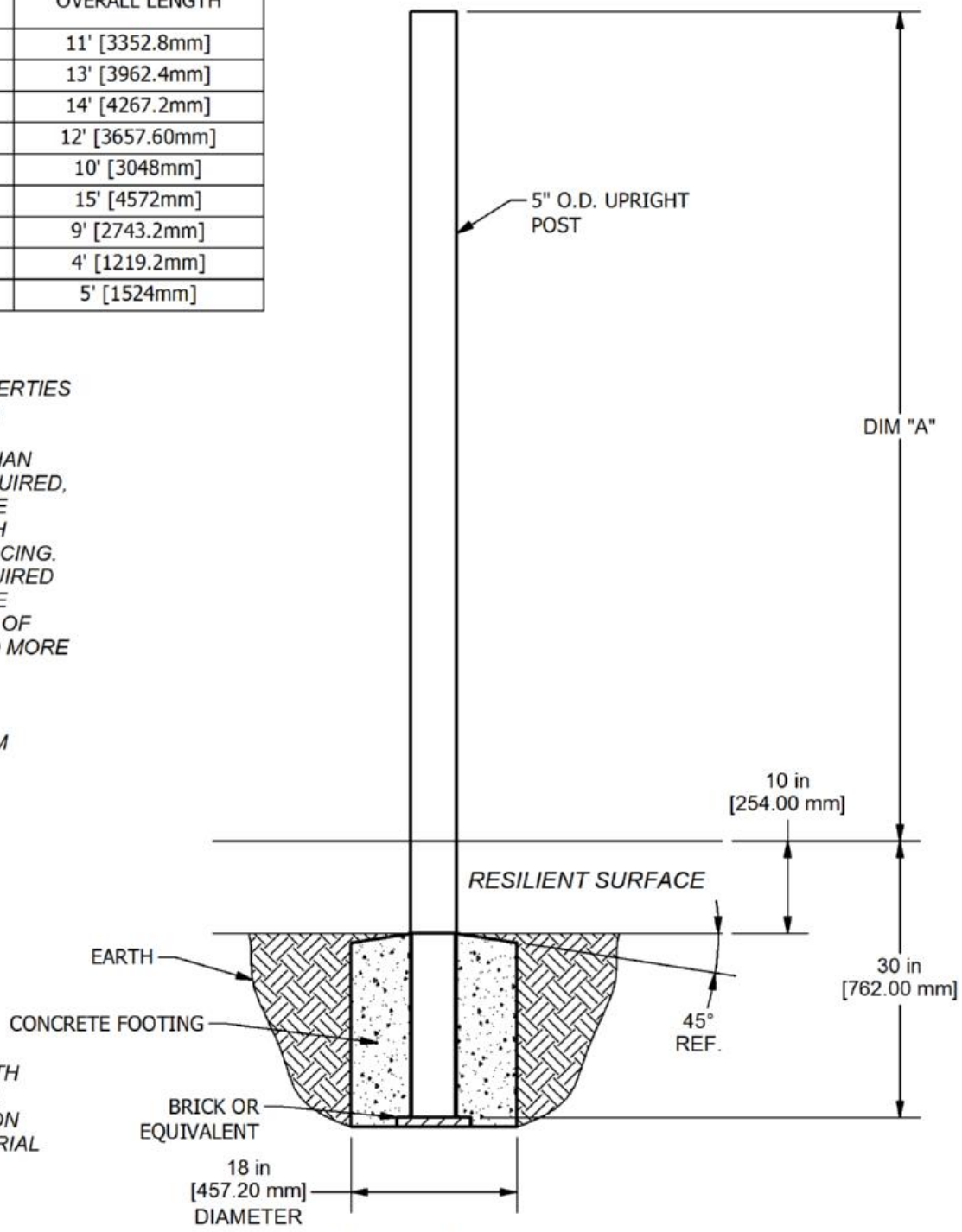
(ADD G PREFIX FOT GALV. POST)

NO.	DIM "A"	OVERALL LENGTH
60040	8'-6" [2590.8mm]	11' [3352.8mm]
60041	10'-6" [3200.4mm]	13' [3962.4mm]
60042	11'-6" [3505.2mm]	14' [4267.2mm]
60089	9'-6" [2895.6mm]	12' [3657.60mm]
60246	7'-6" [2286mm]	10' [3048mm]
60944	12'-6" [3810mm]	15' [4572mm]
60945	6'-6" [1981.2mm]	9' [2743.2mm]
61540	1'-6" [457.2mm]	4' [1219.2mm]
61541	2'-6" [762mm]	5' [1524mm]

SHOCK ABSORBING PROPERTIES OF RESILIENT SURFACING MATERIALS VARY. IF YOU DETREMINE THAT LESS THAN 10" OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH BEFORE APPLYING SURFACING. IF MORE THAN 10" IS REQUIRED MAKE UP THE DIFFERENCE BY REDUCING THE DEPTH OF THE GROUND HOLE BY NO MORE THAN 2".

NOTE:
-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF RESILIENT SURFACE MATERIAL AND CONCRETE



ELEVATION VIEW

Issued/Revised: 7/11/2019

SuperMax Play Systems

60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

Parts List									
DESCRIPTION	60059	G60059	60060	G60060	60088	G60088	60102	G60102	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 10'	1	0	0	0	0	0	0	0	300130
5" O.D. POST WITH CAP (GALVANIZED) 10'	0	1	0	0	0	0	0	0	G00130
5" O.D. POST WITH CAP (ALUMINUM) 12'	0	0	1	0	0	0	0	0	300059
5" O.D. POST WITH CAP (GALVANIZED) 12'	0	0	0	1	0	0	0	0	G00059
5" O.D. POST WITH CAP (ALUMINUM) 14'	0	0	0	0	1	0	0	0	300060
5" O.D. POST WITH CAP (GALVANIZED) 14'	0	0	0	0	0	1	0	0	G00060
5" O.D. POST WITH CAP (ALUMINUM) 6'	0	0	0	0	0	0	1	0	300057
5" O.D. POST WITH CAP (GALVANIZED) 6'	0	0	0	0	0	0	0	1	G00057

Parts List									
DESCRIPTION	60178	G60178	60946	G60946	60947	G60947	60948	G60948	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 8'	1	0	0	0	0	0	0	0	300521
5" O.D. POST WITH CAP (GALVANIZED) 8'	0	1	0	0	0	0	0	0	G00521
5" O.D. POST WITH CAP (ALUMINUM) 15'	0	0	1	0	0	0	0	0	305801
5" O.D. POST WITH CAP (GALVANIZED) 15'	0	0	0	1	0	0	0	0	G05801
5" O.D. POST WITH CAP (ALUMINUM) 13'	0	0	0	0	1	0	0	0	305803
5" O.D. POST WITH CAP (GALVANIZED) 13'	0	0	0	0	0	1	0	0	G05803
5" O.D. POST WITH CAP (ALUMINUM) 11'	0	0	0	0	0	0	1	0	305805
5" O.D. POST WITH CAP (GALVANIZED) 11'	0	0	0	0	0	0	0	1	G05805

Parts List									
DESCRIPTION	60949	G60949	60956	G60956	61538	G61538	61539	G61539	PART NUMBER
5" O.D. POST WITH CAP (ALUMINUM) 7'	1	0	0	0	0	0	0	0	305807
5" O.D. POST WITH CAP (GALVANIZED) 7'	0	1	0	0	0	0	0	0	G05807
5" O.D. POST WITH CAP (ALUMINUM) 9'	0	0	1	0	0	0	0	0	305810
5" O.D. POST WITH CAP (GALVANIZED) 9'	0	0	0	1	0	0	0	0	G05810
5" O.D. POST WITH CAP (ALUMINUM) 4'	0	0	0	0	1	0	0	0	304957
5" O.D. POST WITH CAP (GALVANIZED) 4'	0	0	0	0	0	1	0	0	G04957
5" O.D. POST WITH CAP (ALUMINUM) 5'	0	0	0	0	0	0	1	0	305615
5" O.D. POST WITH CAP (GALVANIZED) 5'	0	0	0	0	0	0	0	1	G05615

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

INSTALLATION INSTRUCTIONS:

1. Component numbers are for one (1) Upright Post only. Please refer to your Plan Drawing and Footing Diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure up from the lower end of each Upright Post and mark using a felt-tip marker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof naker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be instaling. Using your footing diagram and elevation view as a reference, move and dig holes accordingly.

3. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

4. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete has a downward slope of 45° at the top away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like nuts, bolts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

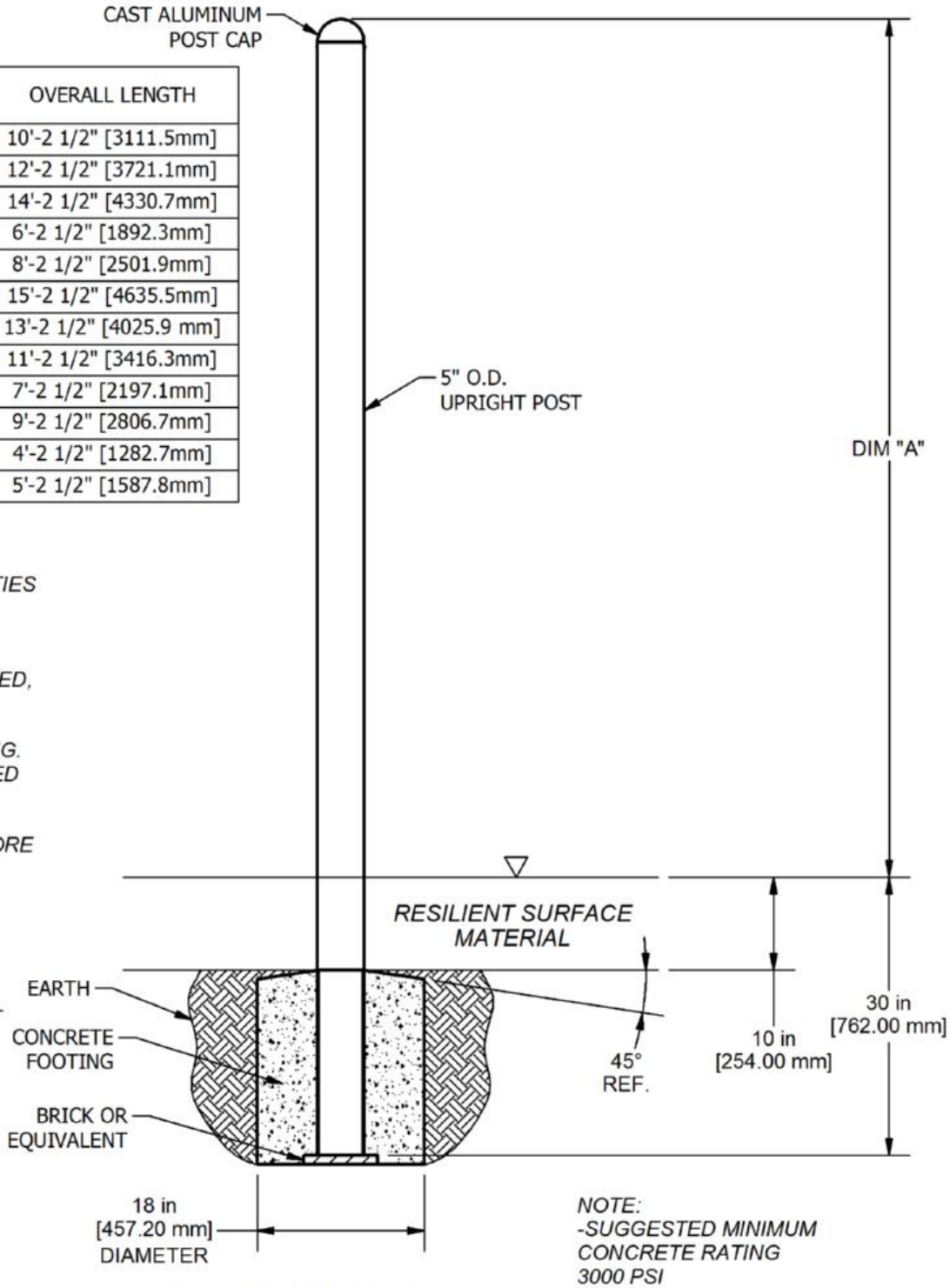
60059 (10'), 60060 (12'), 60088 (14'), 60102 (6'), 60178 (8'), 60946 (15'), 60947 (13'), 60948 (11'), 60949 (7'), 60956 (9'), 61538 (4'), 61539 (5') SUPERMAX POST w/ CAP

(ADD G PREFIX FOR GALV. POST)

NO.	DIM "A"	OVERALL LENGTH
60059	7'-8 1/2" [2349.5mm]	10'-2 1/2" [3111.5mm]
60060	9'-8 1/2" [2959.1mm]	12'-2 1/2" [3721.1mm]
60088	11'-8 1/2" [3568.7mm]	14'-2 1/2" [4330.7mm]
60102	3'-8 1/2" [1130.3mm]	6'-2 1/2" [1892.3mm]
60178	5'-8 1/2" [1739.9mm]	8'-2 1/2" [2501.9mm]
60946	12'-8 1/2" [3873.5 mm]	15'-2 1/2" [4635.5mm]
60947	10'-8 1/2" [3263.9mm]	13'-2 1/2" [4025.9 mm]
60948	8'-8 1/2" [2654.3mm]	11'-2 1/2" [3416.3mm]
60949	4'-8 1/2" [1435.1mm]	7'-2 1/2" [2197.1mm]
60956	6'-8 1/2" [2044.7mm]	9'-2 1/2" [2806.7mm]
61538	1'-8 1/2" [520.7mm]	4'-2 1/2" [1282.7mm]
61539	2'-8 1/2" [1282.7mm]	5'-2 1/2" [1587.8mm]

SHOCK ABSORBING PROPERTIES OF RESILIENT SURFACING MATERIALS VARY. IF YOU DETREMINE THAT LESS THAN 10" OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH BEFORE APPLYING SURFACING. IF MORE THAN 10" IS REQUIRED MAKE UP THE DIFFERENCE BY REDUCING THE DEPTH OF THE GROUND HOLE BY NO MORE THAN 2".

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF RESILIENT SURFACE MATERIAL AND CONCRETE



NOTE:
-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

ELEVATION VIEW

Issued/Revised: 7/11/2019

MODEL NO. 60088 SuperMax 168" Aluminum Post w/ Cap
MODEL NO. G60088 SuperMax 168" Galvanized Post w/ Cap

PARTS LIST

DESCRIPTION	60088	G60088	PART NUMBER
5" O.D. Post w/ Cap (Aluminum)	1	0	300060
5" O.D. Post w/ Cap (Galvanized)	0	1	G00060

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:

Post is 5" O.D. x 168", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two (2) aluminum rivets.

Weight: 24 lb. / 10.8 kg.

GALVANIZED SPECIFICATIONS:

Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap powder-coated to match the post color is factory-riveted to the top end using two (2) aluminum rivets.

□e□□□□98 lb. / 44.5 kg.

INSTALLATION INSTRUCTIONS:

1. The models 60088 and G60088 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.

3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.

4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60088 SuperMax 168" Aluminum Post w/ Cap
MODEL NO. G60088 SuperMax 168" Galvanized Post w/ Cap

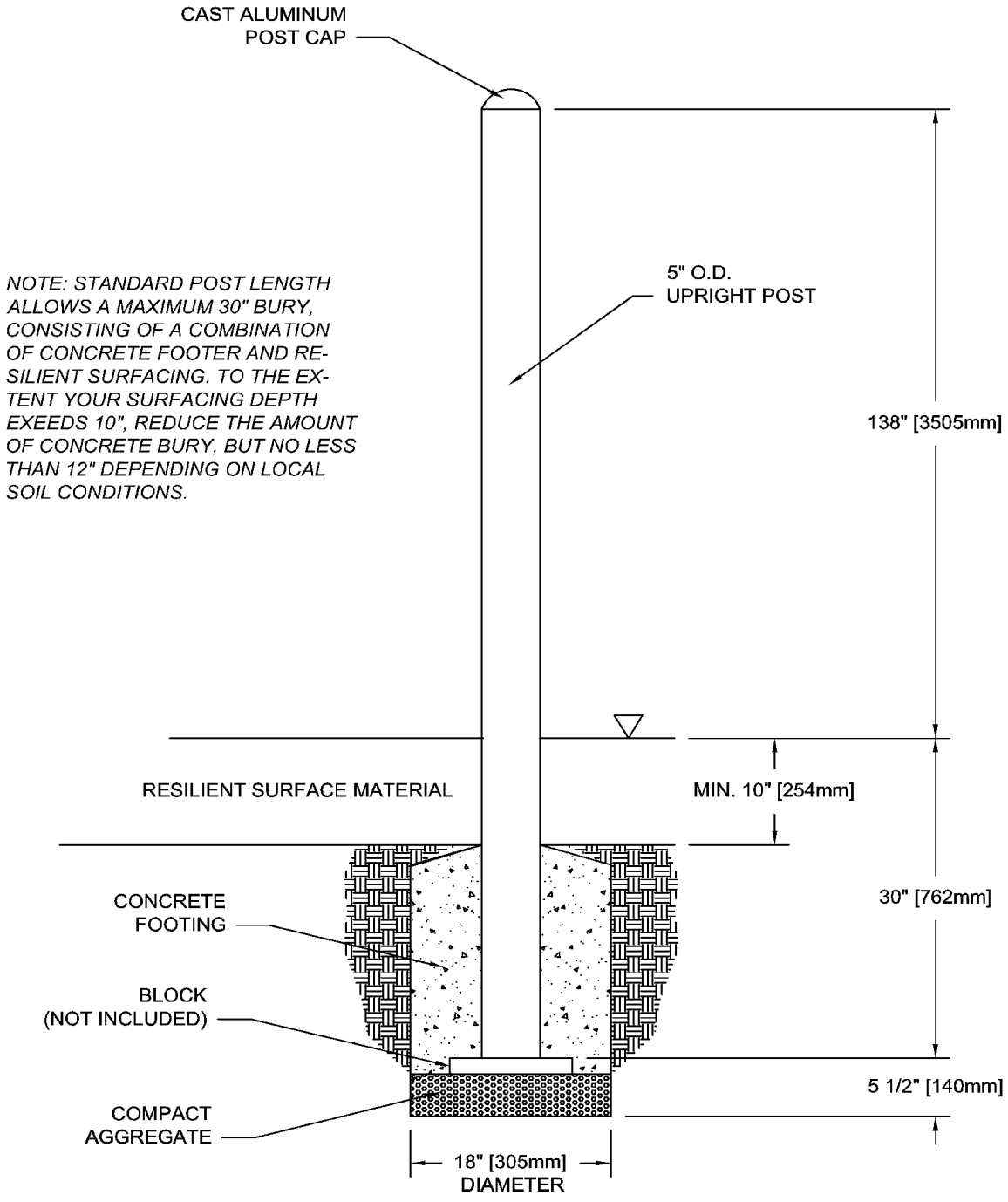
IMPORTANT:

To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for holes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 60088 SuperMax 168" Aluminum Post w/ Cap
MODEL NO. G60088 SuperMax 168" Galvanized Post w/ Cap



NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF CONCRETE FOOTER AND RESILIENT SURFACING. TO THE EXTENT YOUR SURFACING DEPTH EXEEDS 10", REDUCE THE AMOUNT OF CONCRETE BURY, BUT NO LESS THAN 12" DEPENDING ON LOCAL SOIL CONDITIONS.

MODEL NO. 60102 SuperMax 72" Aluminum Post w/ Cap
MODEL NO. G60102 SuperMax 72" Galvanized Post w/ Cap

PARTS LIST

DESCRIPTION	60102	G60102	PART NUMBER
5" O.D. Post w/ Cap (Aluminum)	1	0	300057
5" O.D. Post w/ Cap (Galvanized)	0	1	G00057

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:

Post is 5" O.D. x 72", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two (2) aluminum rivets.

Weight: 14 lb. / 6.4 kg.

GALVANIZED SPECIFICATIONS:

Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap powder-coated to match the post color is factory-riveted to the top end using two (2) aluminum rivets.

Weight: 38 lb. / 17.2 kg.

INSTALLATION INSTRUCTIONS:

1. The models 60102 and G60102 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.

3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.

4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60102 SuperMax 72" Aluminum Post w/ Cap
MODEL NO. G60102 SuperMax 72" Galvanized Post w/ Cap

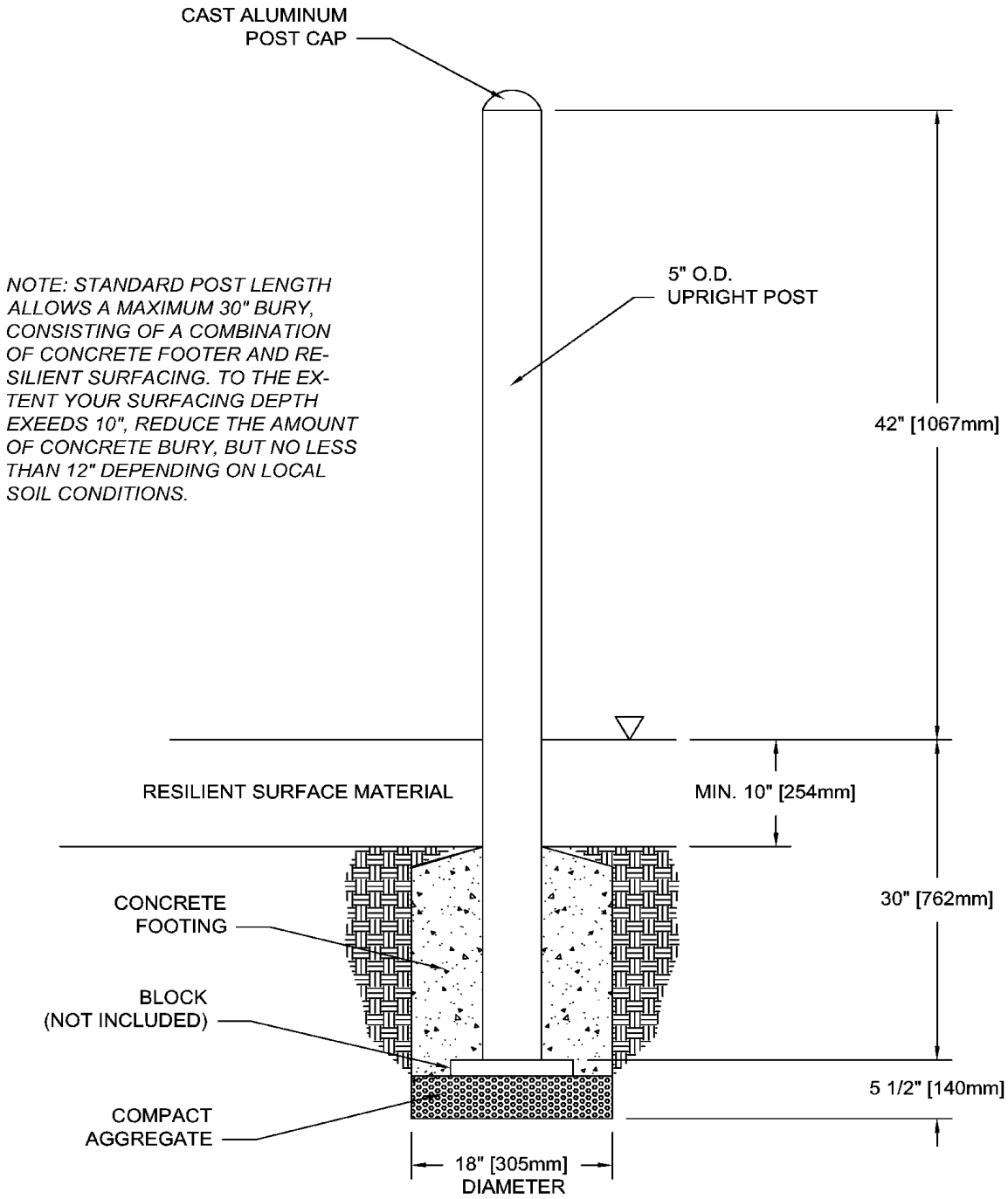
IMPORTANT:

To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for holes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 60102 SuperMax 72" Aluminum Post w/ Cap
MODEL NO. G60102 SuperMax 72" Galvanized Post w/ Cap



NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF CONCRETE FOOTER AND RESILIENT SURFACING. TO THE EXTENT YOUR SURFACING DEPTH EXEEDS 10", REDUCE THE AMOUNT OF CONCRETE BURY, BUT NO LESS THAN 12" DEPENDING ON LOCAL SOIL CONDITIONS.

SuperMax Play Systems

Model No: _____

Desc: _____

MODEL NO. 60172 Large Kickplate (for decks 16" apart)

PARTS LIST

DESCRIPTION	No. REQ'D	PART NUMBER
Large Kickplate	1	305746
Hardware Complete	1	302411
3/8" x 3/4" P.B.H.C.S. w/Patch	8	812052*
3/8" Lock Nut	8	804353*
3/8" Flat Washer (1 1/4" O.D.)	16	817424*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Kickplate measures 17-1/2" x 38", and is cut from galvanneal sheet metal with (8) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Corners are rounded, edges are ground smooth, and receives a baked-on polyester powder-coated finish after fabrication.

Primary hardware is stainless steel.

INSTALLATION INSTRUCTIONS:

1. Refer to the main drawing to locate decks, which are spaced 16" apart. These will require Kickplate(s). Attach Kickplates after decks have been installed, but before deck clamps have been pinned, in case adjustment in deck heights is required to match up holes in deck flanges with holes in Kickplate.

2. Attach Kickplate to decks using 3/8" x 3/4" P.B.H.C.S. w/Patch with 3/8" (1 1/4" O.D.) Flat Washers and 3/8" Lock Nuts.

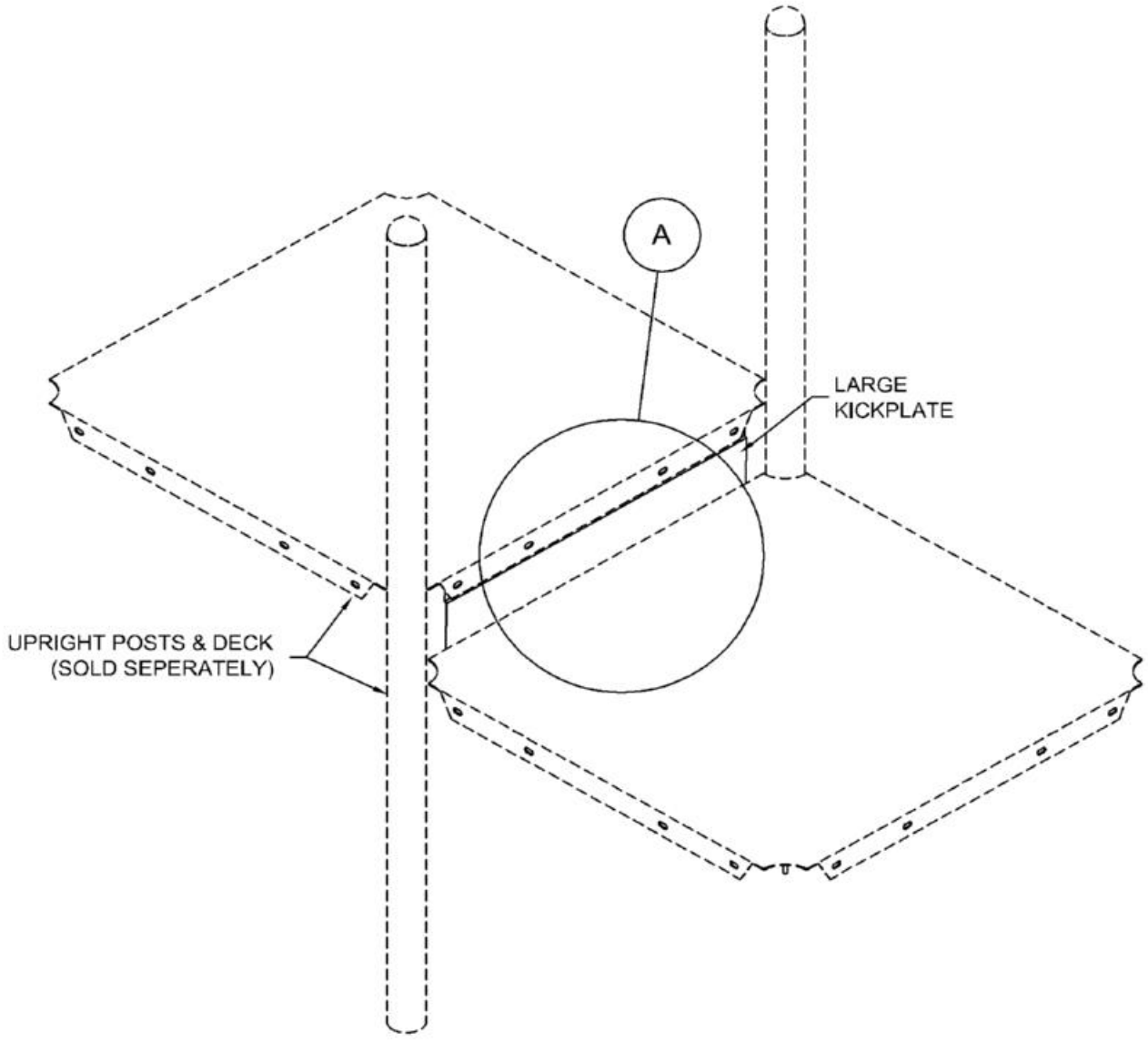
   IMPORTANT: No portion of the Kickplate should be protruding in a manner which could cause a user to receive a cut, scrape or trip over any edge. Any rough edges should be filed smooth, and any protruding corners should be flattened.

3. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

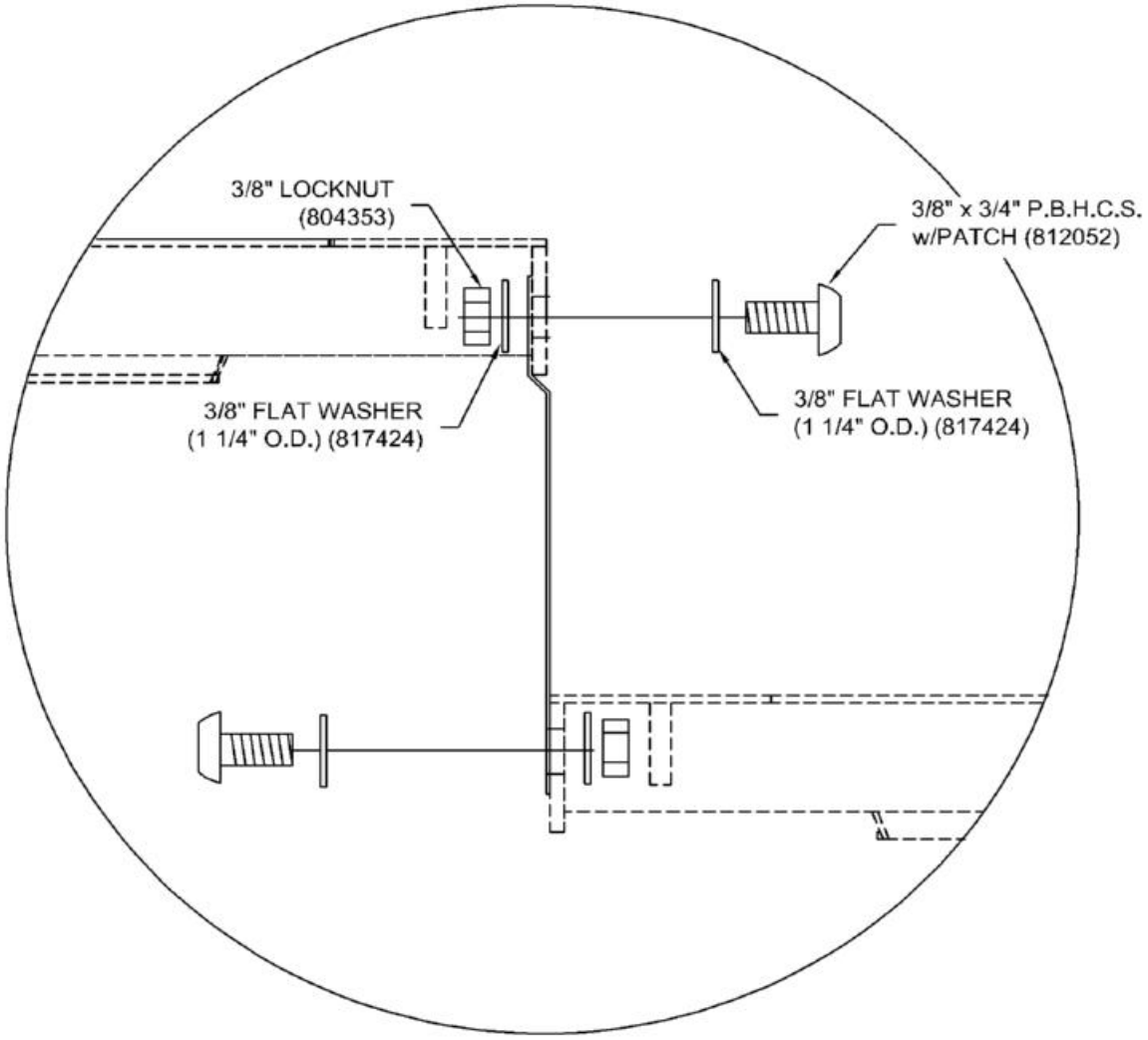
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 60172 Large Kickplate (for decks 16" apart)



FINISHED ASSEMBLY

MODEL NO. 60172 Large Kickplate (for decks 16" apart)



DETAIL 'A'

LARGE KICKPLATE ASSEMBLY

MODEL NO. 60178 Aluminum 96" Post w/Cap
MODEL NO. G60178 Galvanized 96" Post w/Cap

PARTS LIST

DESCRIPTION	*60178*	*G0178*	*PART NUMBER*
Post w/ cap (Aluminum)	1	0	300521
Post w/ cap (Galvanized)	0	1	G00521

Unless Otherwise Specified, All Units of Measure are Each
** Included in Hardware*

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:
Post is 5" O.D. x 144", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two (2) aluminum rivets.

Weight: 19 lb. / 8.6 kg

GALVANIZED SPECIFICATIONS:
Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap powder-coated to match the post color is factory-riveted to the top end using two (2) aluminum rivets.

Weight: 51 lb. / 23.1 kg

INSTALLATION INSTRUCTIONS:

1. The models 60178 and G60178 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.
2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the *Safety Guidelines* to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram). Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.
3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.
4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.
5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

IMPORTANT:

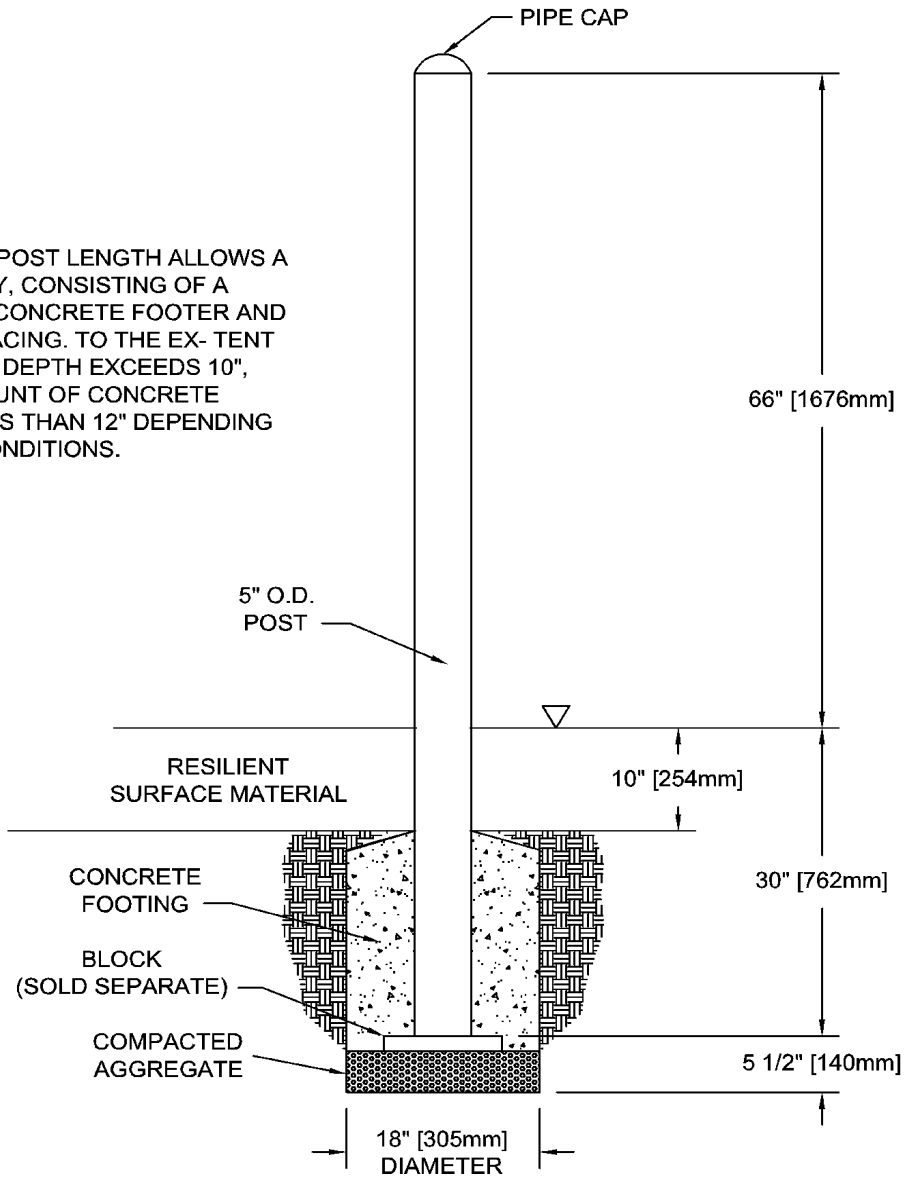
To cushion accidental falls, Park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines* provided within the assembly Instructions packet.

MODEL NO. 60178 Aluminum 96" Post w/Cap
MODEL NO. G60178 Galvanized 96" Post w/Cap

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint peeling and touch-up if necessary with paint. Check for welded areas and verify integrity. Check for cracks, gouges or breakage on plastic, check for integrity of the plastic, keep plastic clean of any extraneous substances, verify that any deformation does not create entrapment as specified on ASTM F1487-98 section 6. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF CONCRETE FOOTER AND RE- SILIENT SURFACING. TO THE EX- TENT YOUR SURFACING DEPTH EXCEEDS 10", REDUCE THE AMOUNT OF CONCRETE BURY, BUT NO LESS THAN 12" DEPENDING ON LOCAL SOIL CONDITIONS.



MODEL NO. 60944 Aluminum 180" Post w/o Cap
MODEL NO. G60944 Galvanized 180" Post w/o Cap

PARTS LIST

DESCRIPTION	60944	G60944	PART NUMBER
5" O.D. Post w/o Cap (Aluminum)	1	0	305797
5" O.D. Post w/o Cap (Galvanized)	0	1	G05797

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:
Post is 5" O.D. x 180", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyester powder-coated after fabrication.

Weight: 33.75 lb. / 15.30 kg.

GALVANIZED SPECIFICATIONS:
Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish.

Weight: 93.81 lb. / 42.55 kg.

INSTALLATION INSTRUCTIONS:

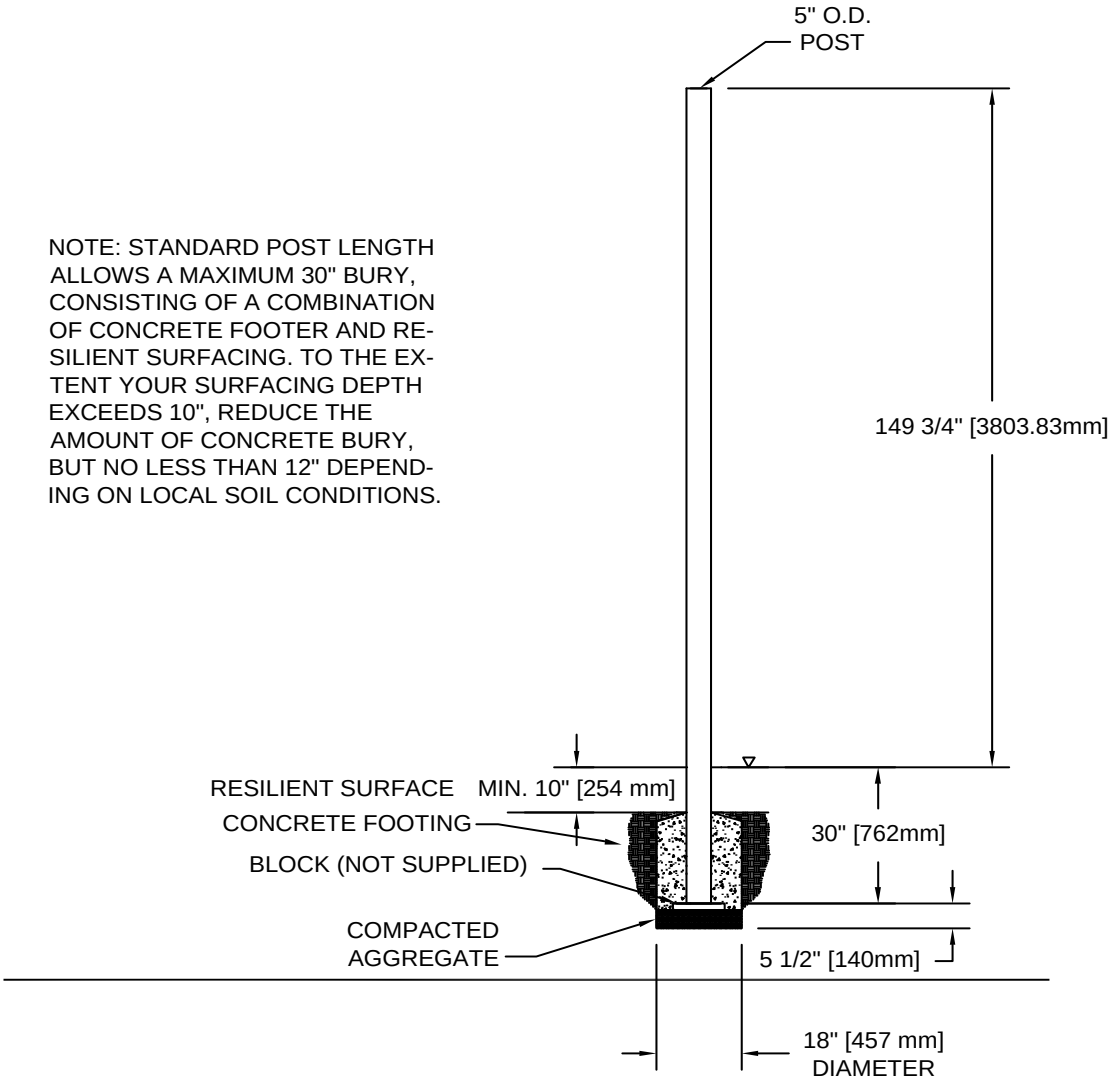
1. The models 60944 and G60944 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.
2. Measure from the lower end of each Upright Post and mark us ing a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that it is time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will be installing. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.
3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.
4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.
5. Once the entire play structure is assembled, and all po sts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only when all positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60944 Aluminum 180" Post w/o Cap
MODEL NO. G60944 Galvanized 180" Post w/o Cap

IMPORTANT:
To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for hdes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair
records for each public-use playground equipment.

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF CONCRETE FOOTER AND RESILIENT SURFACING. TO THE EXTENT YOUR SURFACING DEPTH EXCEEDS 10", REDUCE THE AMOUNT OF CONCRETE BURY, BUT NO LESS THAN 12" DEPENDING ON LOCAL SOIL CONDITIONS.



MODEL NO. 60949 Aluminum 84" Post with Cap
MODEL NO. G60949 Galvanized 84" Post with Cap

PARTS LIST

DESCRIPTION	60949	G60949	PART NUMBER
5" O.D. Post with Cap (Aluminum)	1	0	305807
5" O.D. Post with Cap (Galvanized)	0	1	G05807

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area.

ALUMINUM SPECIFICATIONS:
Post is 5" O.D. x 84", 0.125" wall thickness 6005-T5 extruded seamless Aluminum tubing. Tensile strength is 38,000 psi, and yield strength is 35,000 psi. Entire post is polyesterpowder-coated after fabrication. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 16.75 lb. / 7.60 kg.

GALVANIZED SPECIFICATIONS:
Post is 5" O.D. 11-gauge galvanized steel tubing with a baked-on polyester powder-coated finish. A cast aluminum cap of matching color is factory rivited into the top end using two (2) aluminum rivets.

Weight: 44.78 lb. / 20.31 kg.

INSTALLATION INSTRUCTIONS:

1. The models 60949 and G60949 are for one (1) Upright Post only. Please refer to your plan drawing and footing diagram to determine the proper quantity required and locations of Upright Posts.

2. Measure from the lower end of each Upright Post and mark using a felt-tip maker 30" up from the end (optionally, this mark can be made with a fluorescent weather-proof maker of paint. It would become exposed as resilient surfacing wears away, thereby alerting maintenance personnel that itis time to replenish the surfacing). This should be your grade level once the post is in the ground and resilient surfacing is installed. To locate the finished ground level, you must decide how much resilient surface material you will beinstalling. (Refer to the Safety Guidelines to decide how much resilient surface to use, and note that a maximum total bury of 30" is provided per post, to include both the resilient surfacing and the concrete per post, to include both the resilient surfacing and the concrete footer. See the accompanying diagram.) Place a mark below the 30" level to represent the finished ground level in the amount of resilient surface you will be installing.

3. Run a string line along the side of a row of posts. Select a row of posts, which are common to a majority of the play structure. Using a string level, make sure the string line is at the projected finish grade mark. Now, measure and dig footings for posts along the string line according to the footing diagram. As you go along, you will want to run new string lines for each row of posts, and set posts so that the top mark on each post meets the string line.

4. Set the upright posts into the excavated footings in accordance with the footing diagram. Use a brick, small piece of plywood, or other blocking device (not supplied) at the bottom of each post to prevent the posts from sinking into the earth during plumbing and leveling.

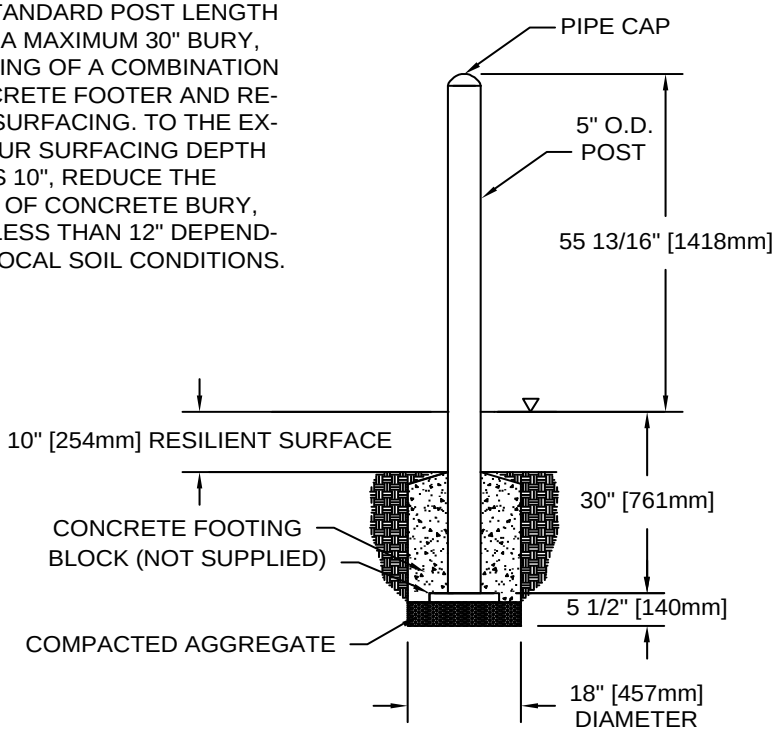
5. Once the entire play structure is assembled, and all posts have been properly braced, re-check plumb and level. Pour concrete per the typical footing diagram only whenall positions are correct. When pouring the footers, make sure the concrete level has a slight downward slope away from the post. Concrete that may have splashed onto the post should be washed off before it dries. Allow all concrete to harden a minimum of 48 hours before allowing children to play on the structures. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MODEL NO. 60949 Aluminum 84" Post with Cap
MODEL NO. G60949 Galvanized 84" Post with Cap

IMPORTANT:
To cushion accidental falls, park Structures strongly recommends that the area under and around the play structure be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10", and as much as 12" for fall heights greater than 48". Approved rubber safety matting can also be used. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines provided within the assembly Instructions packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol-coating peeling and touch-up with Plastisol if necessary. Check for holes on deck, clean if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair
records for each public-use playground equipment.

NOTE: STANDARD POST LENGTH ALLOWS A MAXIMUM 30" BURY, CONSISTING OF A COMBINATION OF CONCRETE FOOTER AND RESILIENT SURFACING. TO THE EXTENT YOUR SURFACING DEPTH EXCEEDS 10", REDUCE THE AMOUNT OF CONCRETE BURY, BUT NO LESS THAN 12" DEPENDING ON LOCAL SOIL CONDITIONS.



This equipment is designed for children 5-12 years old

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.

Parts List			
DESCRIPTION	65179	65180	PART NUMBER
SWING HANGER (3-1/2" O.D.)	2	0	1462
SWING HANGER (5" O.D.)	0	2	1487
TWEEN SEAT	2	2	316322
DOUBLE TOT CHAIN	4	4	314928
TWEENMATES FRAME	1	1	316371
HARDWARE COMPLETE	1	1	314910
3/8" x 2" P.B.H.C.S. w/PATCH	8	8	812055
3/8" LOCK WASHER	8	8	817334
3/8" FLAT WASHER	8	8	817410
3/8" PLASTIC SPACER	8	8	817613
D SHACKLE w/NO-SNAG PIN	4	4	161853
APPROPRIATE AGE LABEL	1	1	305551
WARNING LABEL	1	1	309483

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Attach Swing Hanger (3-1/2" O.D.) to Top Rail. See Detail 218. **NOTE:** *DO NOT tighten Swing Hangers until properly spaced according to Elevation View with specific swing arrangement.*

2. Attach Tween Seat to Tweenmates Frame. See Detail 1225.

3. Attach appropriate chain to Tweenmates Frame. See Detail 421. **NOTE:** *Add Loctite to pin before attacing to tabs.*

NOTE: *If using two Tween Mates Swings in a single bay, ensure that horizontal arms of swing frames are adjacent to each other in order to prevent entering and exiting in path of adjacent swing.*

4. Attach appropriate chain to appropriate Swing Hanger. See Detail 218 or 739.

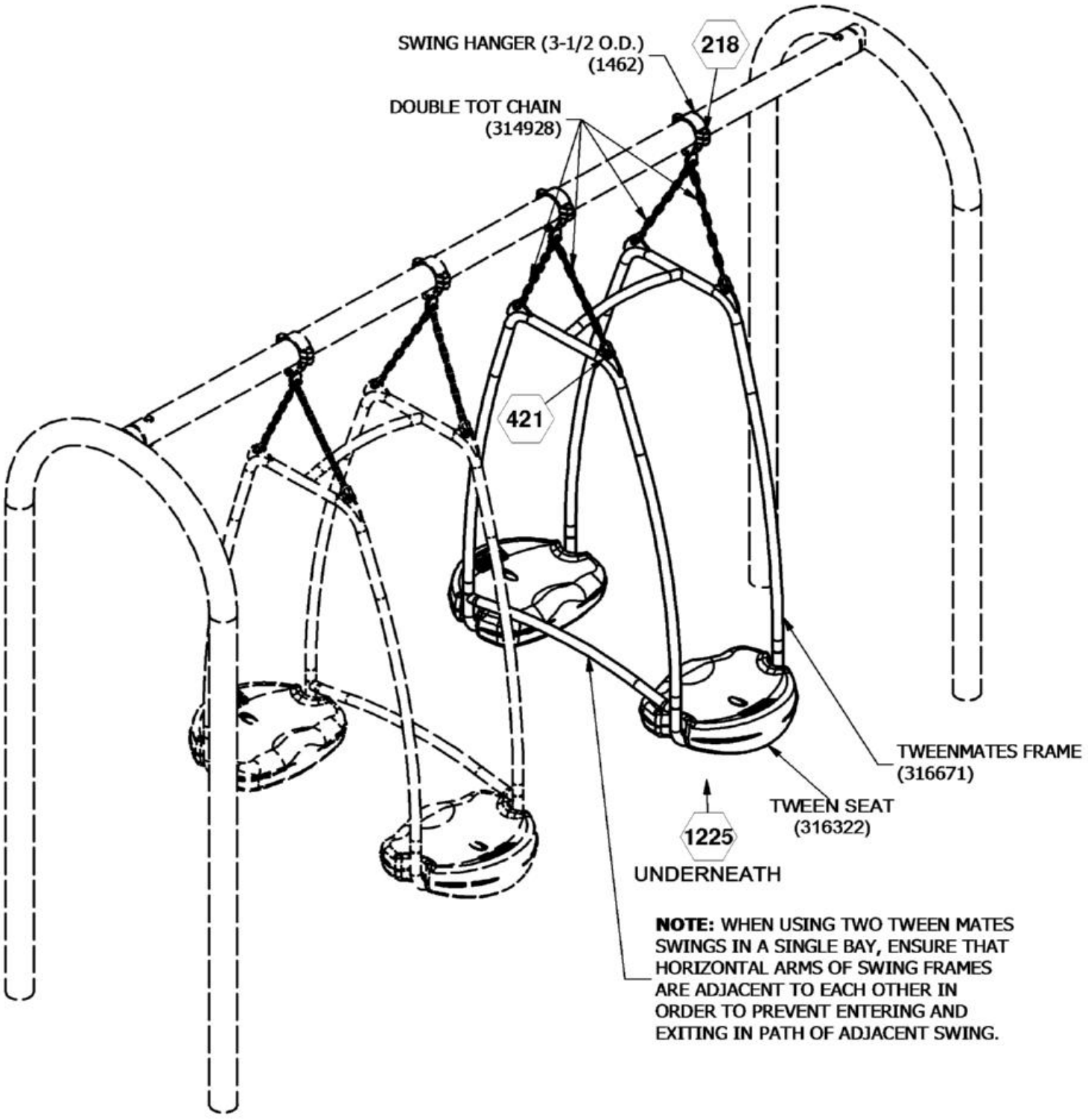
5. Plumb and level entire assembly and tighten all fasteners.

6. When structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



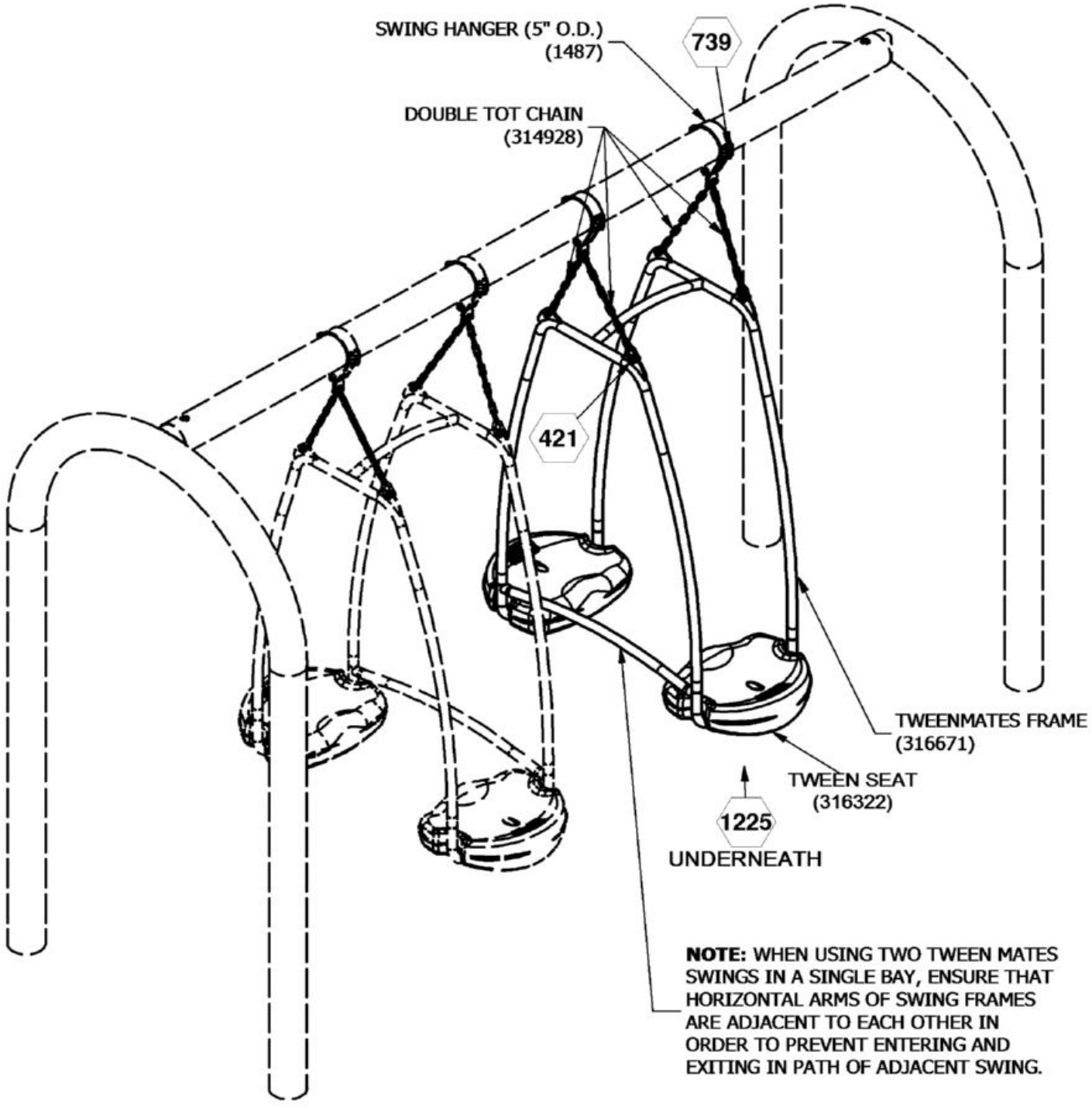
FINISHED ASSEMBLY
65179 SHOWN

⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 6/20/2023

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



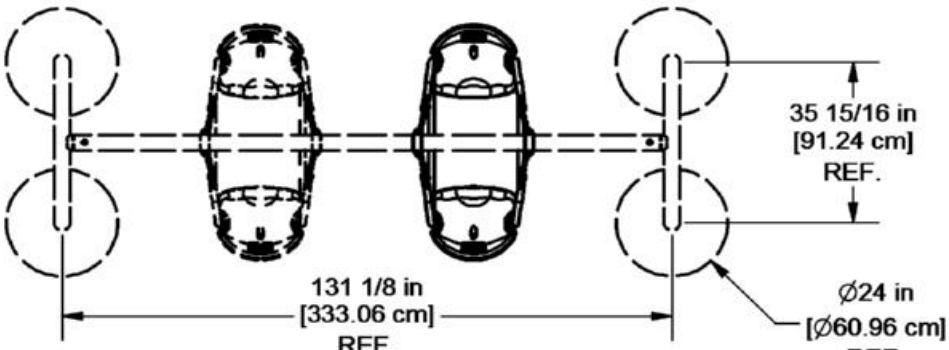
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
65180 SHOWN

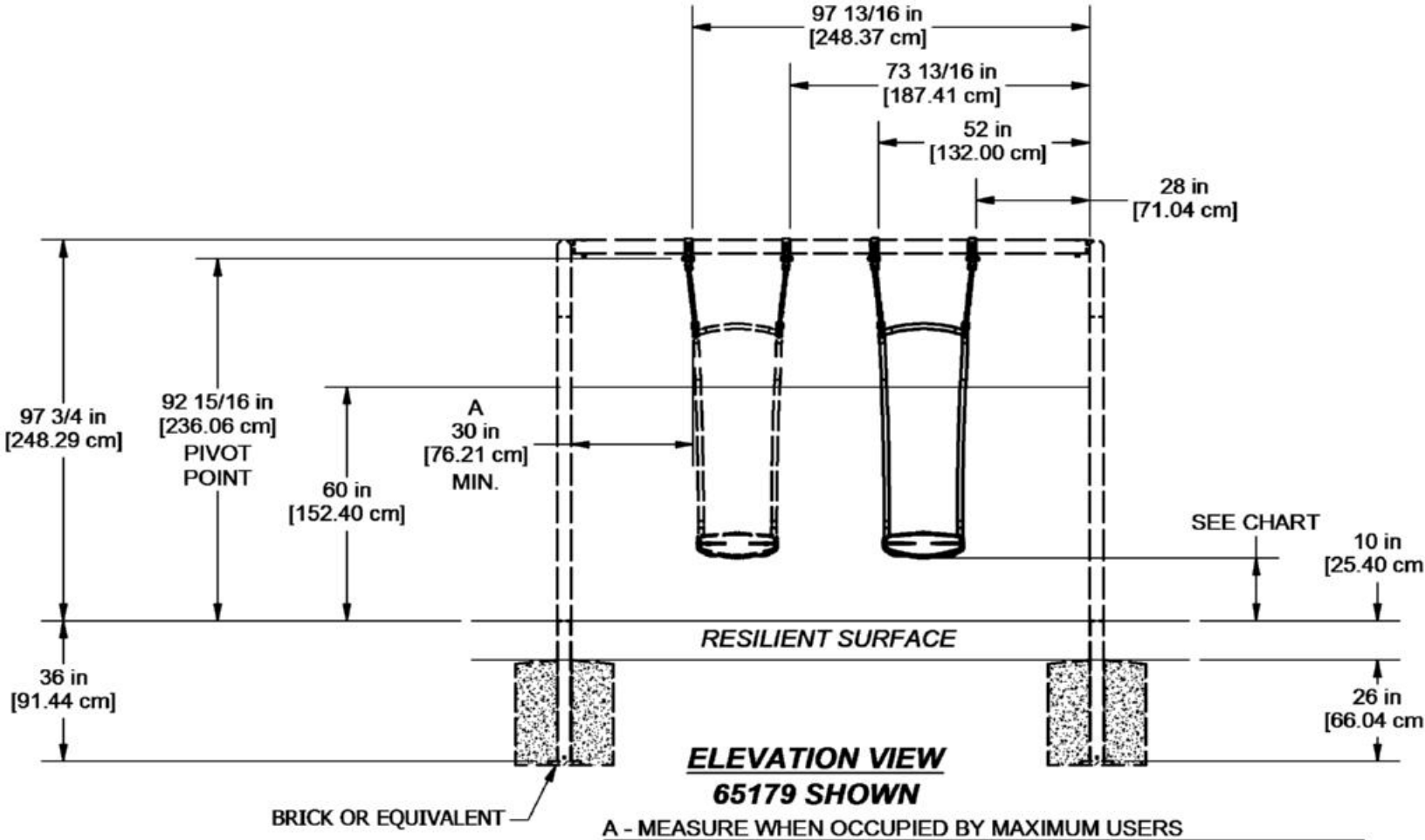
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 6/20/2023

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



PLAN VIEW



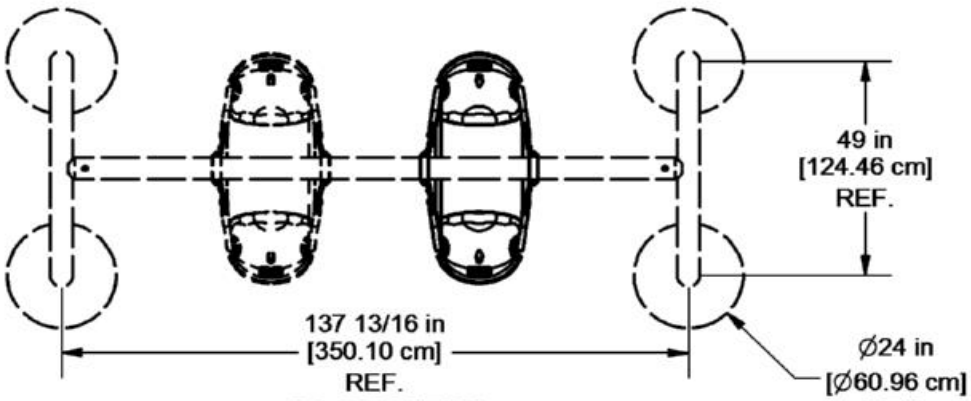
ELEVATION VIEW
65179 SHOWN

A - MEASURE WHEN OCCUPIED BY MAXIMUM USERS

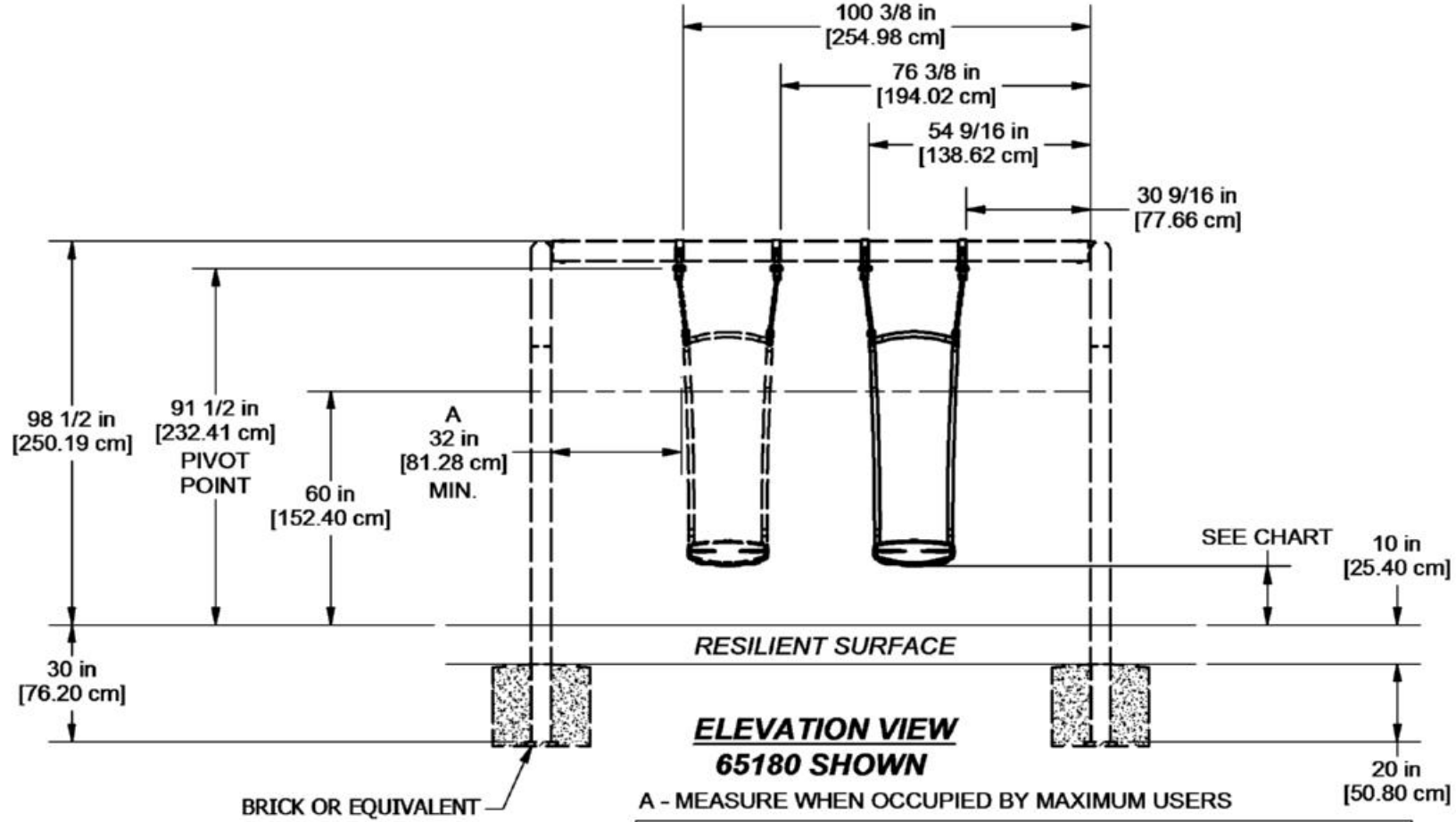
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	0'-11 13/16" [300mm]	N/A
ASTM	1'-0" [304mm]	N/A
DIN	1'-1 3/4" [350mm]	N/A
CPSC	1'-0" [304mm]	N/A

* UNDER LOAD CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.



PLAN VIEW



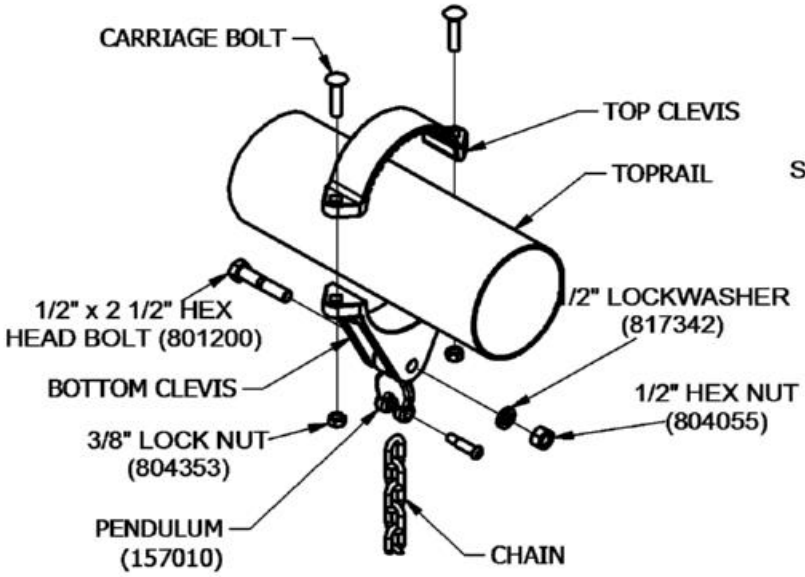
ELEVATION VIEW
65180 SHOWN

A - MEASURE WHEN OCCUPIED BY MAXIMUM USERS

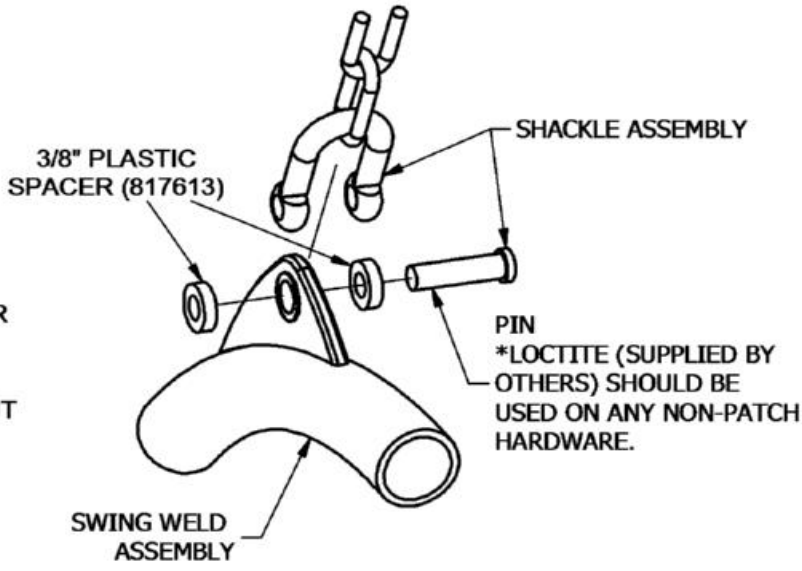
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	0'-11 13/16" [300mm]	N/A
ASTM	1'-0" [304mm]	N/A
DIN	1'-1 3/4" [350mm]	N/A
CPSC	1'-0" [304mm]	N/A

* UNDER LOAD CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

65179 TWEEN MATES SWING 3 1/2" O.D.
65180 TWEEN MATES SWING 5" O.D.

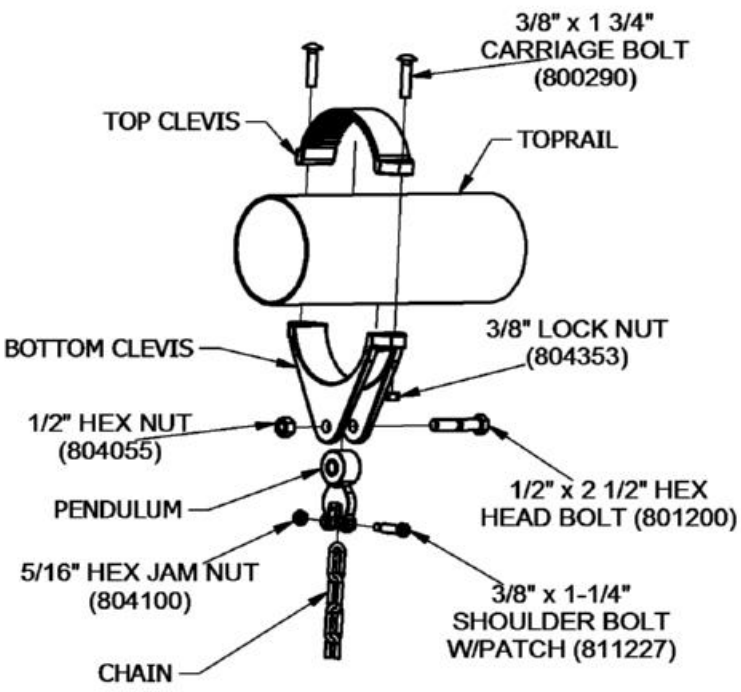


218

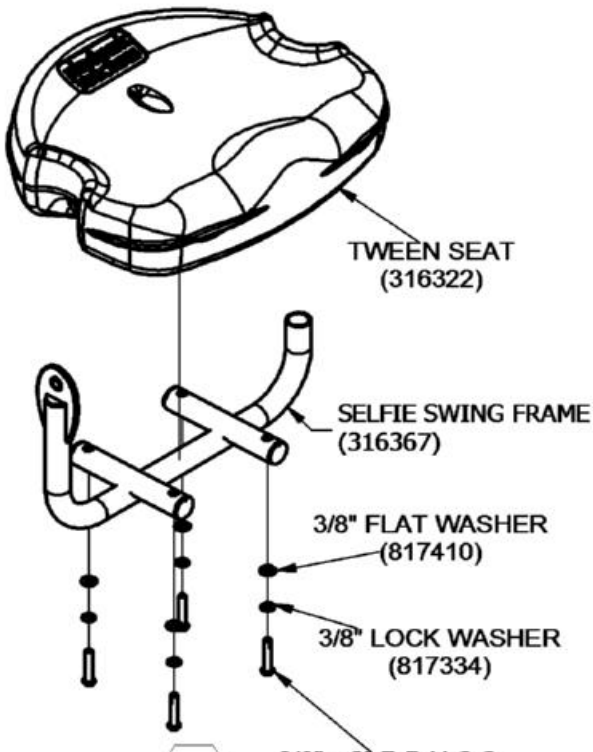


NOTE:
SPACERS LOCATED BETWEEN TAB AND INTERIOR OF SHACKLE.

421



739



1225

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE

Parts List						
DESCRIPTION	65191	65192	65193	65194	65195	PART NUMBER
NDS FITNESS SIGN	1	0	0	0	0	216564
NDS PLAY ON SIGN	0	1	0	0	0	216566
NDS INCLUSIVE PLAY SIGN	0	0	1	0	0	216568
NDS PATHWAYS FOR PLAY SIGN	0	0	0	1	0	216570
NDS NATURE GROUNDS SIGN	0	0	0	0	1	216572
SIGN POST WELD ASS'Y	1	1	1	1	1	216574
HARDWARE COMPLETE	1	1	1	1	1	216580
1/4" x 3/4" B.H.C.S.	4	4	4	4	4	811010
1/4" LOCK WASHER	4	4	4	4	4	817327
1/4" FLAT WASHER (5/8" O.D.)	4	4	4	4	4	817408
1/2" ANCHOR ROD	1	1	1	1	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

SIGN POST WELD ASSEMBLY: Shall be fabricated from 3 1/2" O.D. x .095" (13 gauge) wall galvanized steel tubing and 1/4" thick hot rolled steel mounting plate. The Sign Post Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specification outlined herein.

NDS SIGNS: The NDS Signs shall be 1/2" thick exterior DHPL with a 12 color high definition printed graphic with four 1/4"-20 UNC threaded inserts for mounting.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent / zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794- 69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE

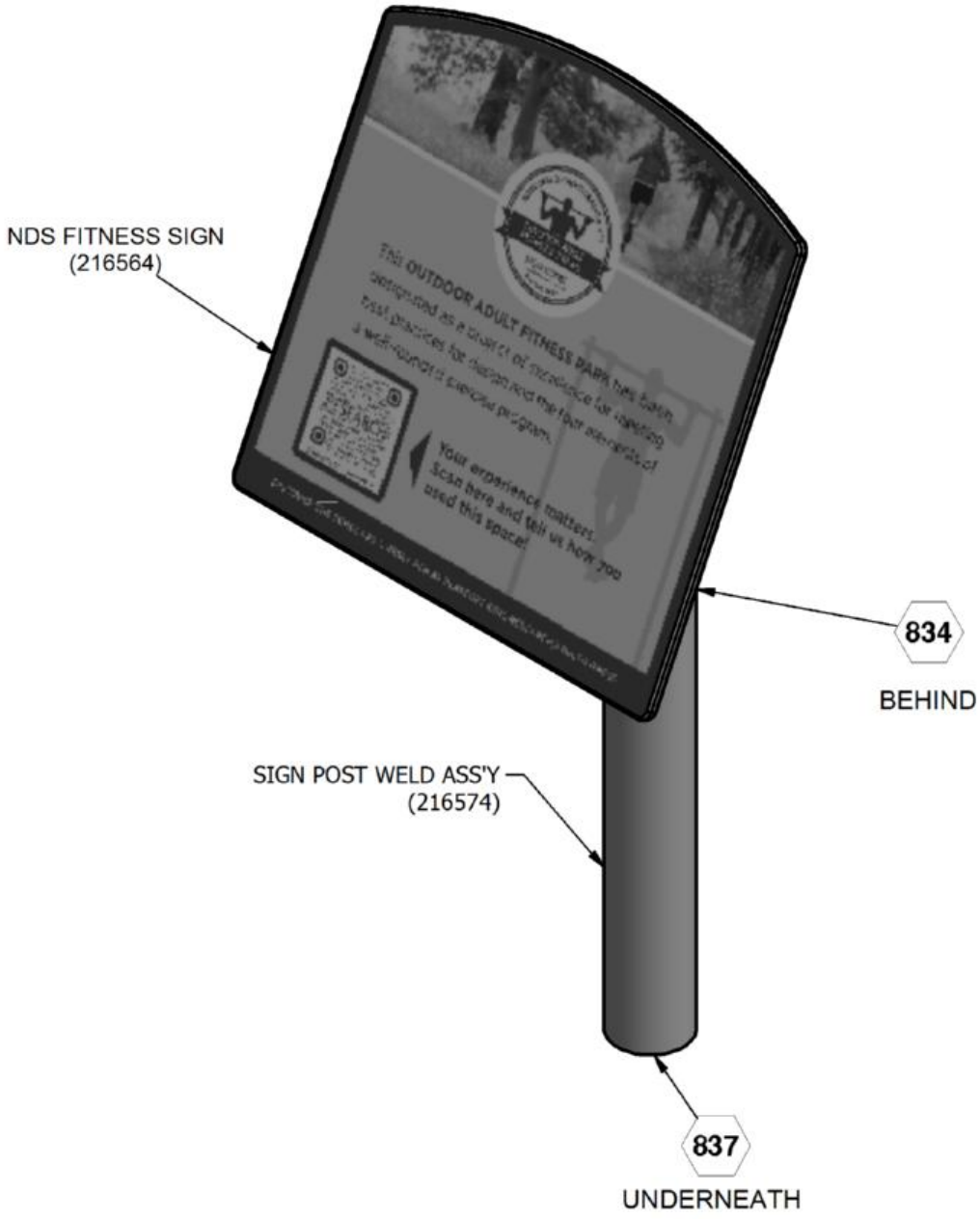
INSTALLATION INSTRUCTIONS:

1. Determine location for sign and dig footing. Refer to the Elevation View for footing depth.
2. Bolt NDS Sign into Sign Post Weld Ass'y using 1/4" x 3/4" B.H.C.S., 1/4" Lock Washer, and 1/4" Flat Washer (5/8" O.D.). See Detail 834.
3. Insert 1/2" Anchor Rod into Sign Post Weld Ass'y. See Detail 837.
4. Place Assembly into ground hole.
5. Plumb and level the entire assembly and tighten all fasteners.
6. Pour concrete footings within 4" to the top and taper away from posts for good water drainage. Allow curing at least 48 hours before proceeding.
7. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

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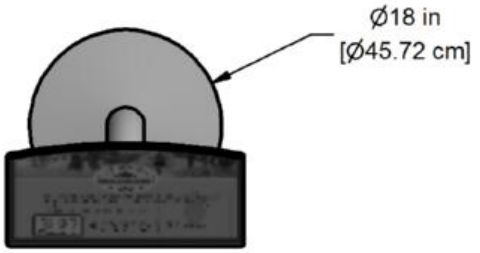


= INSTALLATION DETAIL

Issued/Revised: 2/21/2019

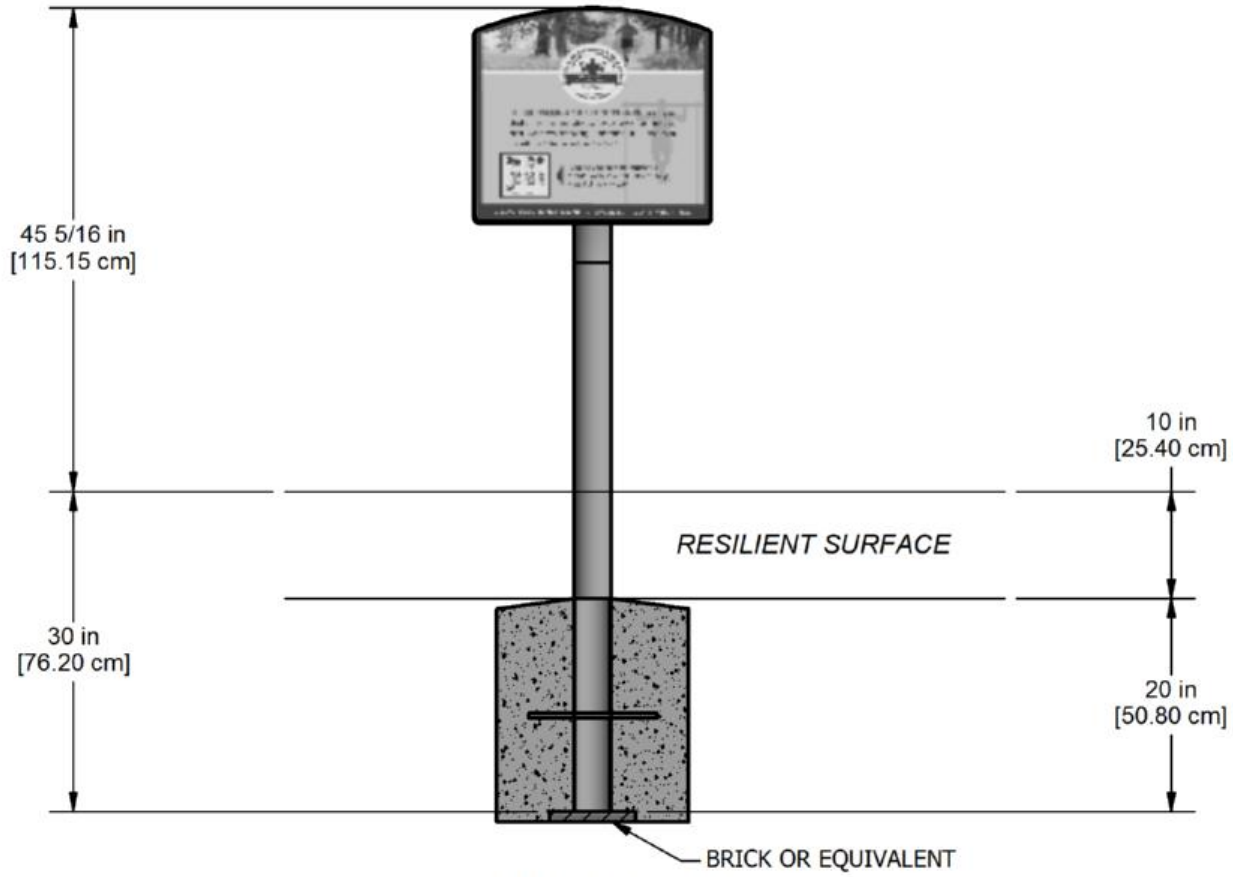
FINISHED ASSEMBLY
65191 SHOWN

65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS NATURE GROUNDS SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE



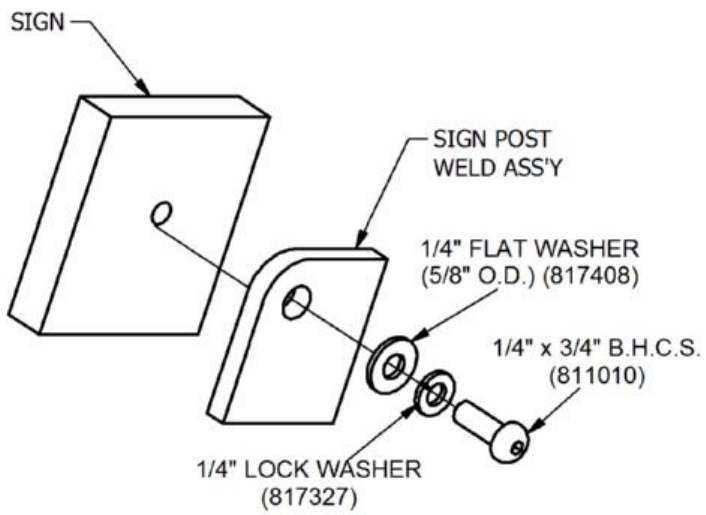
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]

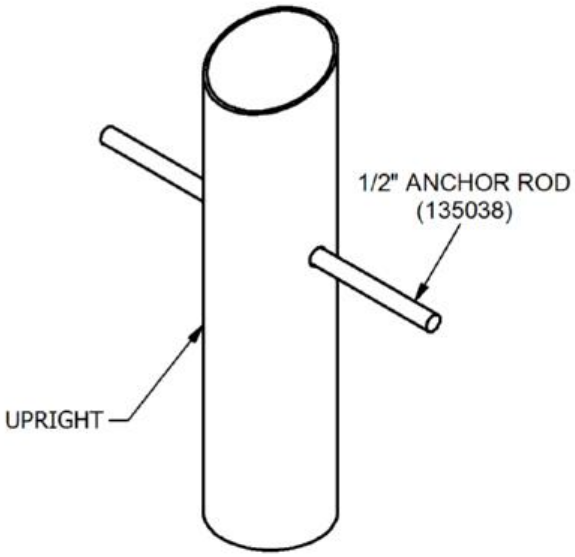


ELEVATION VIEW
65191 SHOWN

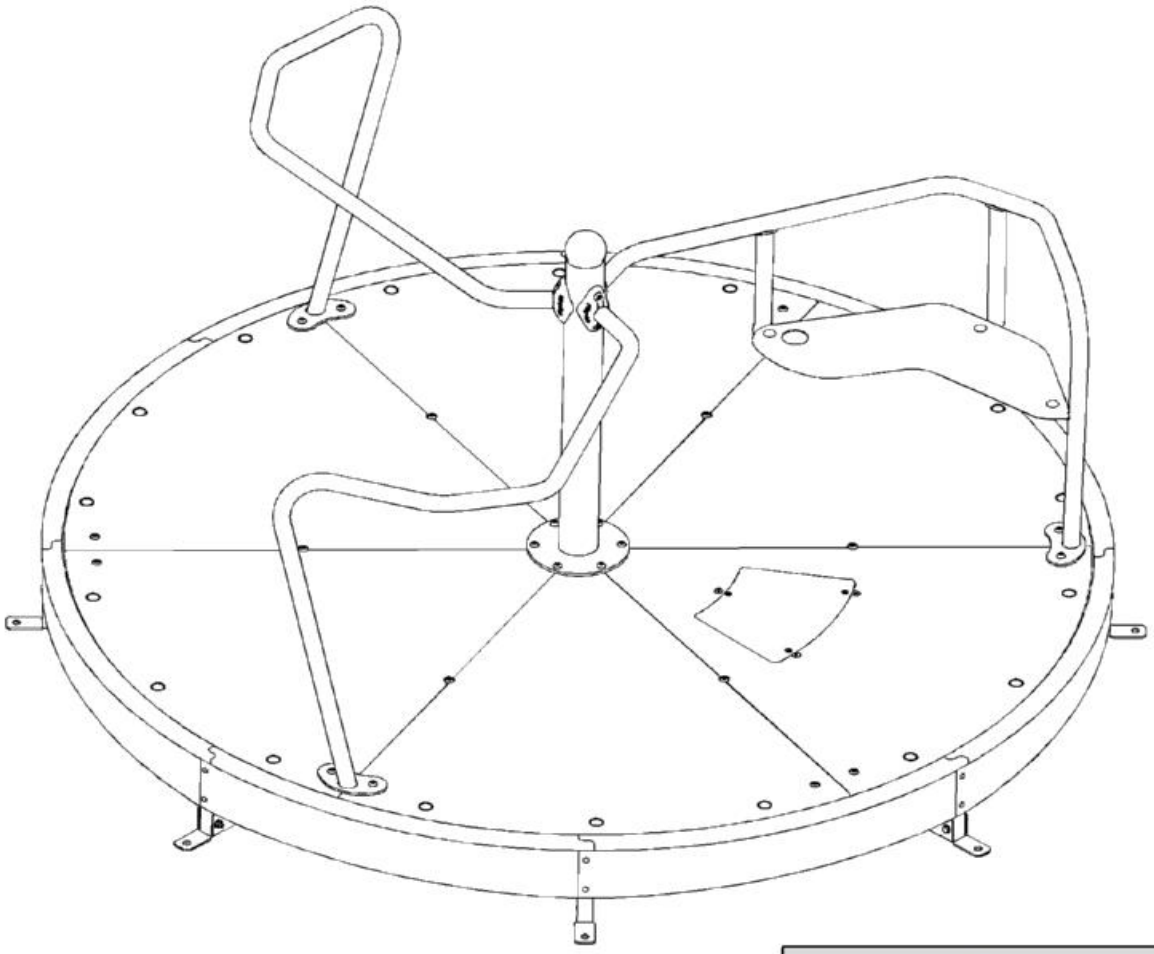
65191 NDS FITNESS SIGN PACKAGE
65192 NDS PLAY ON SIGN PACKAGE
65193 NDS INCLUSIVE PLAY SIGN PACKAGE
65194 NDS PATHWAYS FOR PLAY SIGN PACKAGE
65195 NDS NATURE GROUNDS SIGN PACKAGE



834



837



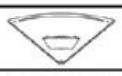
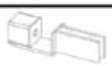
Unit Specification		
Equipment Dimensions	81" x 81" x 30" (2.06m x 2.06m x 0.76m)	FHF
	40" (1.0m)	
Overall Weight	536lbs (243kg)	Heaviest Part
	100lbs (45kg)	
Largest Part	36" x 22" x 29" (0.9m x 0.54m x 0.72m)	Longest Part
	38" (0.95m)	
Concrete Required	1.2yd³ (0.9m³)	Construction Space
	138" x 138" x 60" (3.5m x 3.5m x 1.5m)	
Manpower Required	2 People	Estimated Time
	12 Hours	
	mm	
Bolt length measured as diagram.		

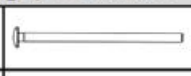
Link to helpful installation video

https://youtu.be/EgRZFTOnvGY

WARNING: If galvanizing blocks holes, do not drill out. If required carefully tap bolt through hole.

Components

Common Parts List			
Part	**Qty**	**Image**	**Description**
CIORB01H(B)	1		Roundabout Bearing (Incl. Grease Nipples)
IORB01A1	1*		Floor Panel with Access Cut Out
IORB01A2t	1*		Floor Panel Hatch Support
IORB01A3	1*		Floor Panel Hatch
IORB02	1		Centre Post Assembly
IORB06	6		Spinning Frame Spoke Support Assembly
IORB08	1		Bearing Attachment Plate
IORB09	5		Floor Panel
IORB10	2		Base Strut
IORB11	2		Triangle Washer
IORB13	8		Outer Rim Section
IORB14	6		Top Floor Support Strut
IORB15	8		Outer Flat Sheet
IORB23	1		Inclusive Orbit Rim Setting Jig
Restrictor Components - IORB#C			
Part	**Qty**	**Image**	**Description**
F038	4		M10 X 55mm HT Hex Head Bolt
F112	2**		M12 Washer 32mm
F120	2**		M10 S/S Nylock Nut
F121	4		M10 S/S Washer 21mm
CIORB09A	2**		Roundabout Restrictor Bracket
CIORB09B	2**		Roundabout Restrictor Spring
CIORB09D(A)	2**		Roundabout Restrictor Wheel Assembly
IORB21	2		Restrictor Cross Member

Common Fixings / Hardware - KT/IORB#A			
F016	1		M10 X 180mm S/S Coach Bolt
F081	2		M10 X 90mm HT Hex Head Bolt
F108	64 + 3*		M8 S/S Washer
F120	1		M10 S/S Nylock Nut
F121	1		M10 S/S Washer 21mm
F365	6		M10 X 20mm HT Hex Head (Incl. Patch)
F417	4		M8 S/S Plain Nut
F419	24 + 3*		M8 S/S Nylock Nut
F429	6		M10 X 30mm Security Bolt
F471	12		M10 X 20mm Security Bolt
F478	6		M10 X 95mm Security Bolt
F494	6		M10 x 25mm Security Bolt Inc. Lock Patch
F780	6		M12 X 50mm HT Hex Head Bolt
F782	3*		M6 x 25mm CSK Security Bolt
F783	3*		M8 x 35mm CSK Security Bolt
F784	12		M8 x 55mm Hex Head Bolt
F785	12		M8 X 65mm Hex Head Bolt
F786	16		M8 x 15mm Hex Head Bolt
F787	16		M4 X 15mm Self Tapping Screw
LG039	6		40 X 40 X 0.9mm Square Washer
LG62	4		Outer Support 90deg Strap

Parts marked * may be supplied pre-assembled as IORB01

Parts marked ** may be supplied pre-assembled as CIORB09(KIT)

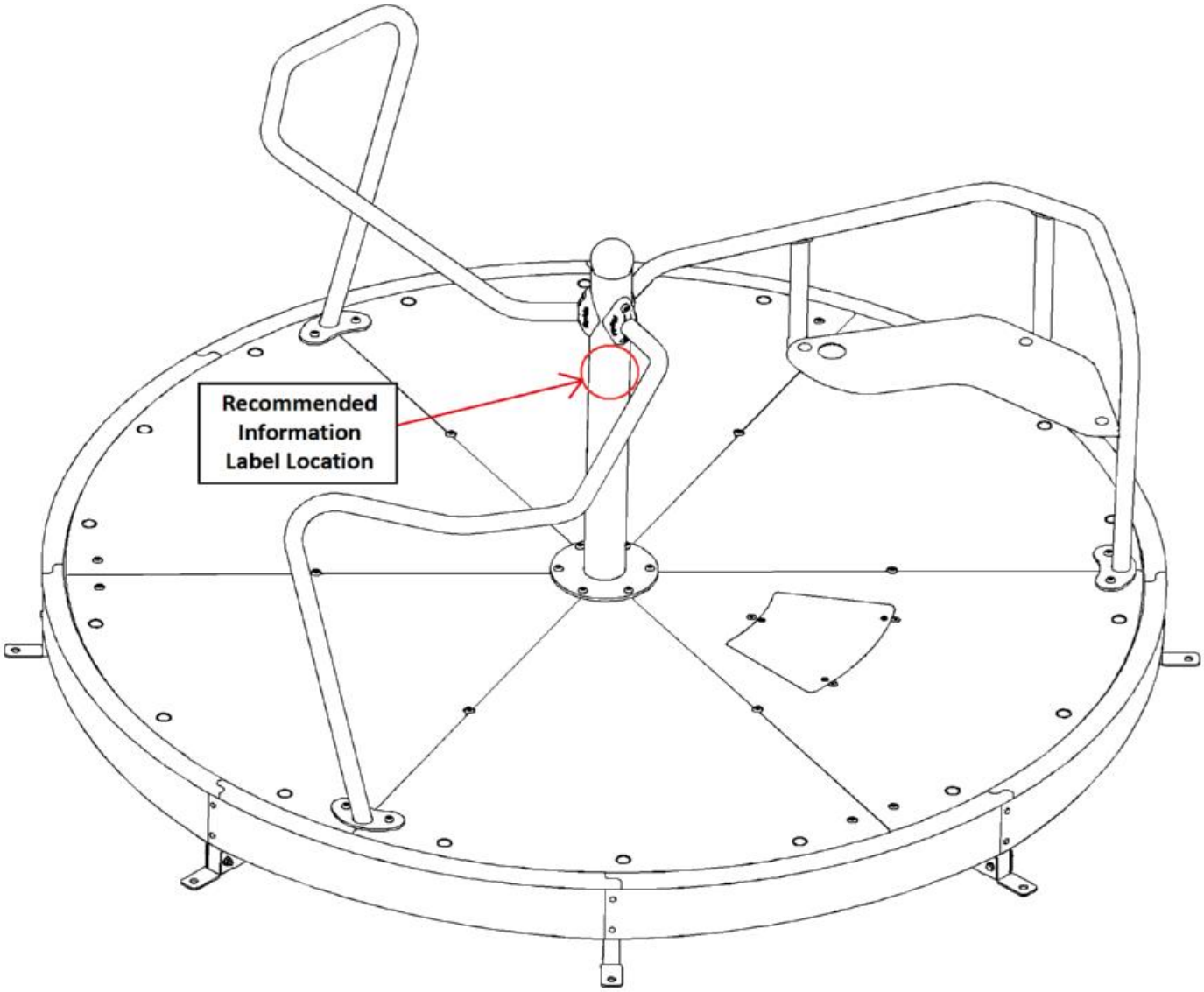
Components

Station Options			
Standing / Wheelchair Station - IORB#B1			
Part	**Qty**	**Qty**	**Description**
IORB03	1		Top Rail Assembly - Wheelchair/ Standing
Seat Station - IORB#B2			
Part	**Qty**	**Image**	**Description**
F002	3		F002
F120	3		F120
F121	3		F121
F601A	3		F601A
F601B	3		F601B
IORB04	1		Top Rail Assembly - Seating
IORB04B	1		CGL Seat (2m)

Surface Fixed - IORB#E			
Part	**Qty**	**Image**	**Description**
IORB20	8		Outer Support Post Assembly
IOBRB22	4		Tapped Clamping Plate
F364	4		M10 x 100mm HT Hex Head (Incl. Patch)

Information Labels

Posting of signs and/or labels shall be the responsibility of the owner/operator of the play equipment.

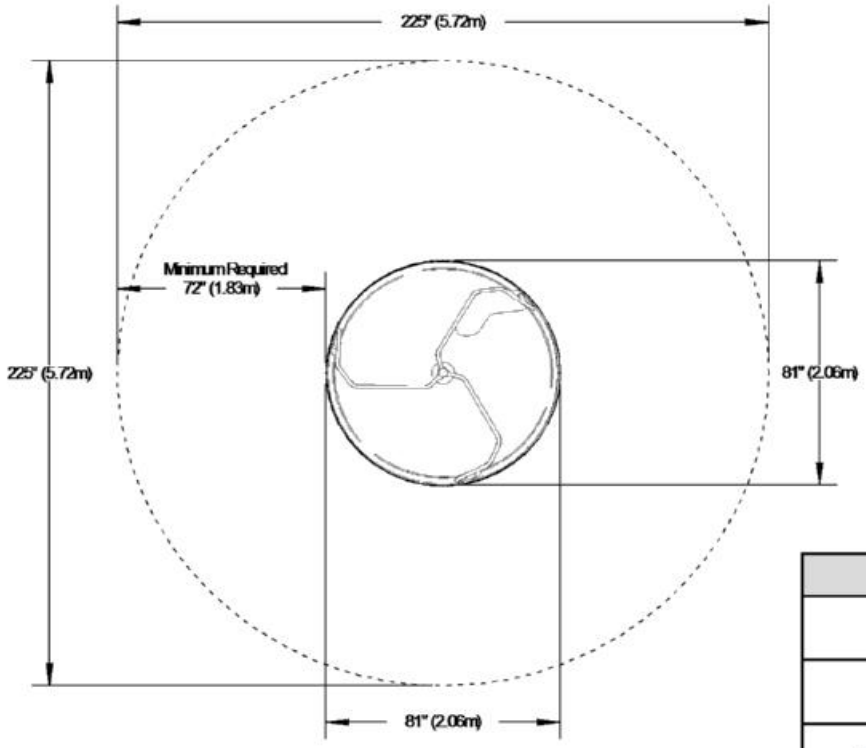


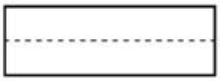
Information labels conforming to relevant standards are required to communicate the following:

Age appropriateness, for ages 5-12 years.
Supervision is recommended.
Warning—Removal of helmets, drawstrings or accessories from around the neck.
Warning—Item may have hot play surfaces and/or surfacing.
Warning—Play equipment can be hazardous when located over hard surfaces.

Freestanding signs communicating the same information are acceptable providing they are readily visible to the intended viewer and alert the viewer to any potential hazard in time to take appropriate action. Freestanding signs must always be situated outside of the Use Zone.

ASTM F1487 Use Zone

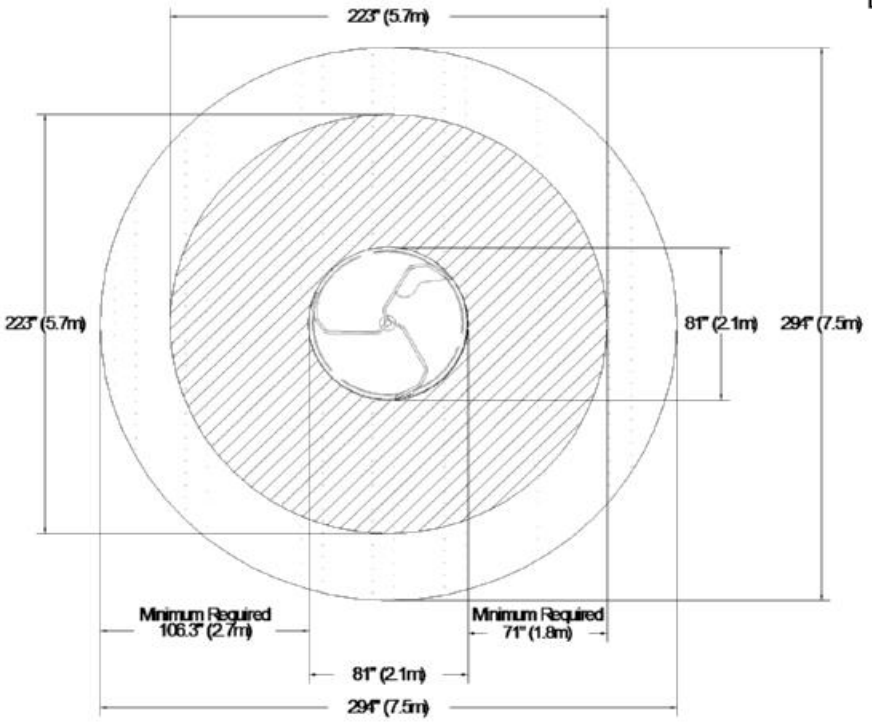




Use Zone

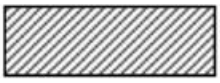
Surfacing Specification	
Finished Gradient	1:50max
Free Height of Fall	40" (1.0m)
Suggested Use Zone Area	276.5ft² (25.7m²)
Suggested Protective Surfacing Zone Area	470.3ft² (43.7m²)

CSA Z614 Protective Surfacing Zone





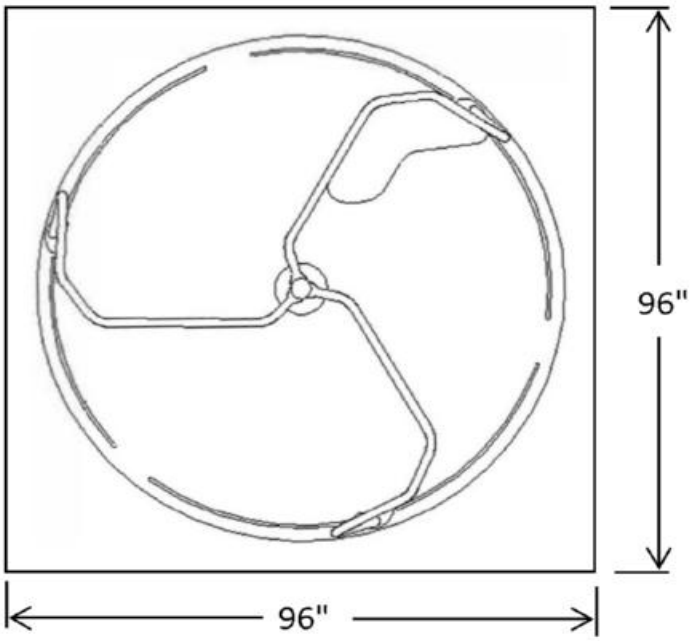
Protective Surfacing Zone



Clearance Zone

Surface Fixed Foundation Plan

Ensure the area beneath the equipment has adequate drainage to prevent water accumulation that could affect the longevity of the moving components.





2yd³

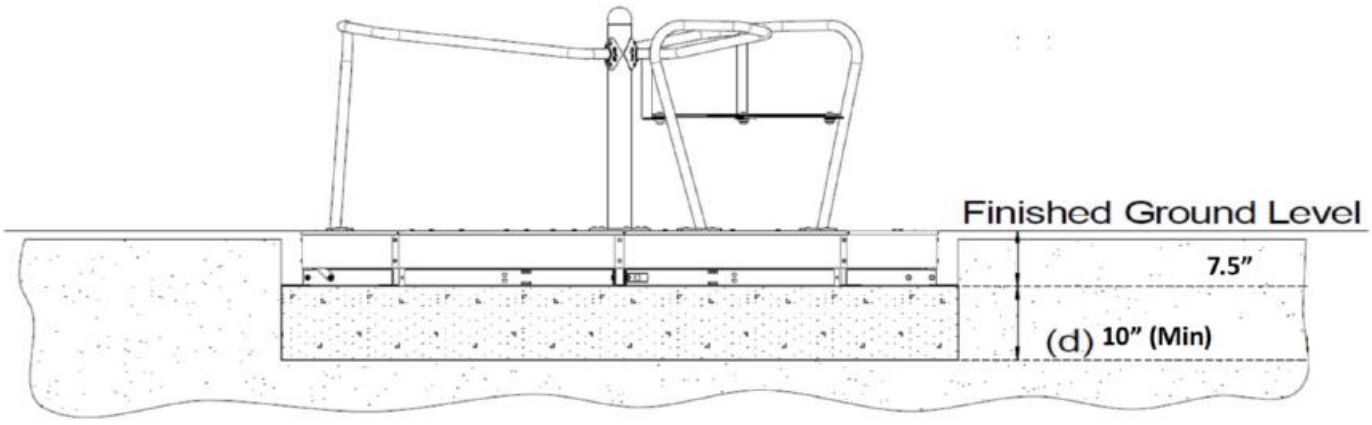
Foundations MUST be level. (maximum gradient 1 in 500).

Minimum Concrete Specification: C20/25 (20 N/mm² min. compressive strength).

Specific loading figures to assess existing concrete foundations are available on request.

Playdale's surface fix system has been designed for use with an Resin/Adhesive Anchor system using appropriate threaded stud/rod and Anti-Vibration Nut.

All Plates and fixings should be covered appropriately as not to cause impact or trip hazard.



NOT TO SCALE

NOTE: In loose or sandy ground all slab dimensions should be increased by approximatly 50%.

01

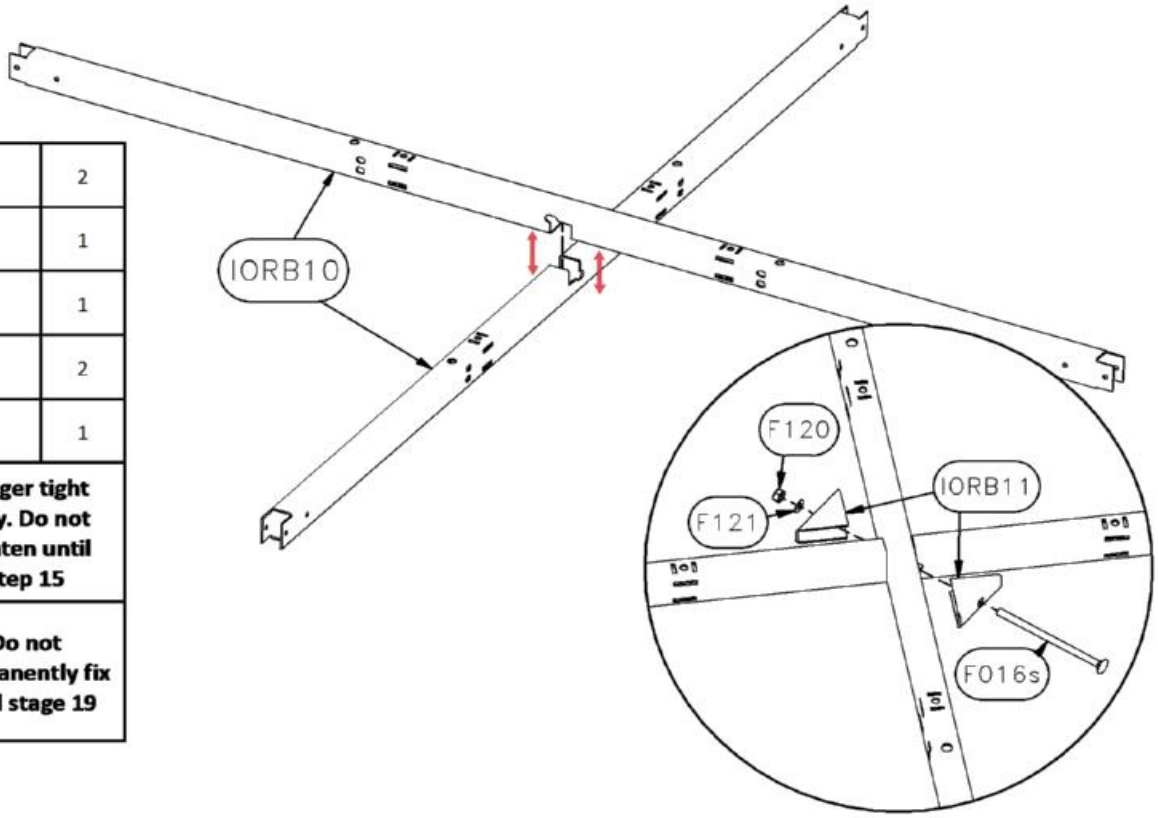
IORB10	2
F120	1
F121	1
IORB11	2
F016S	1



Finger tight only. Do not tighten until step 15



Do not permanently fix until stage 19



02

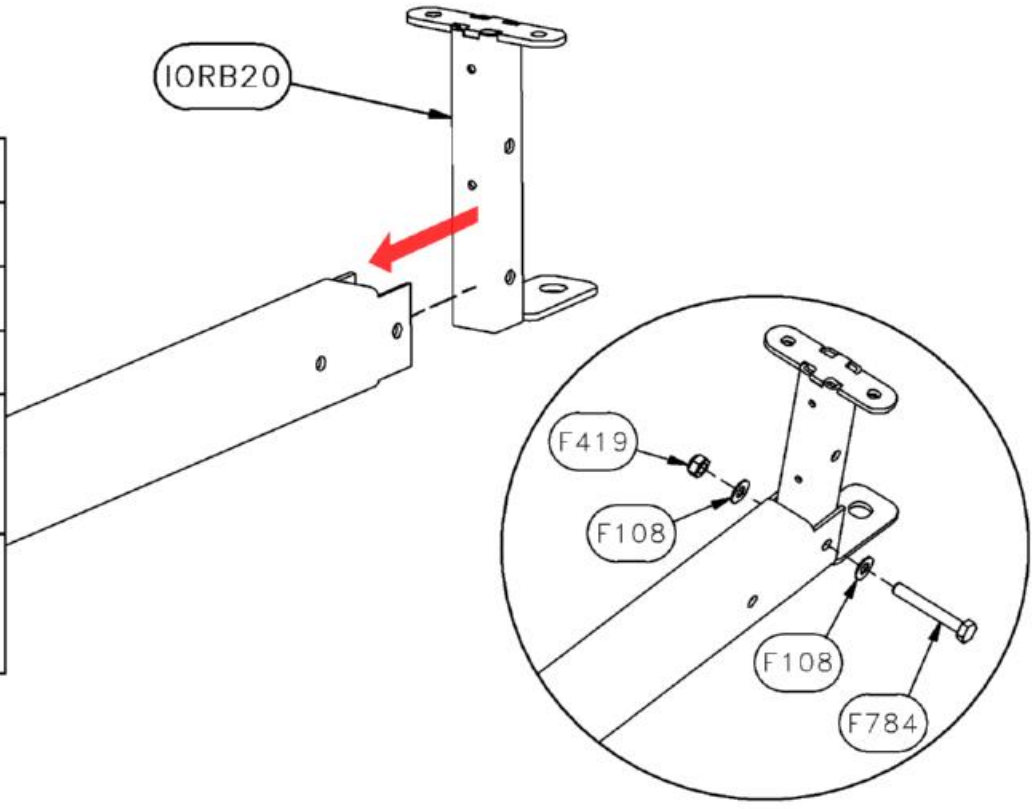
IORB20	4
F784	4
F108	8
F419	4



Finger tight only. Do not fully tighten until stage 18



Do not permanently fix until stage 19



03

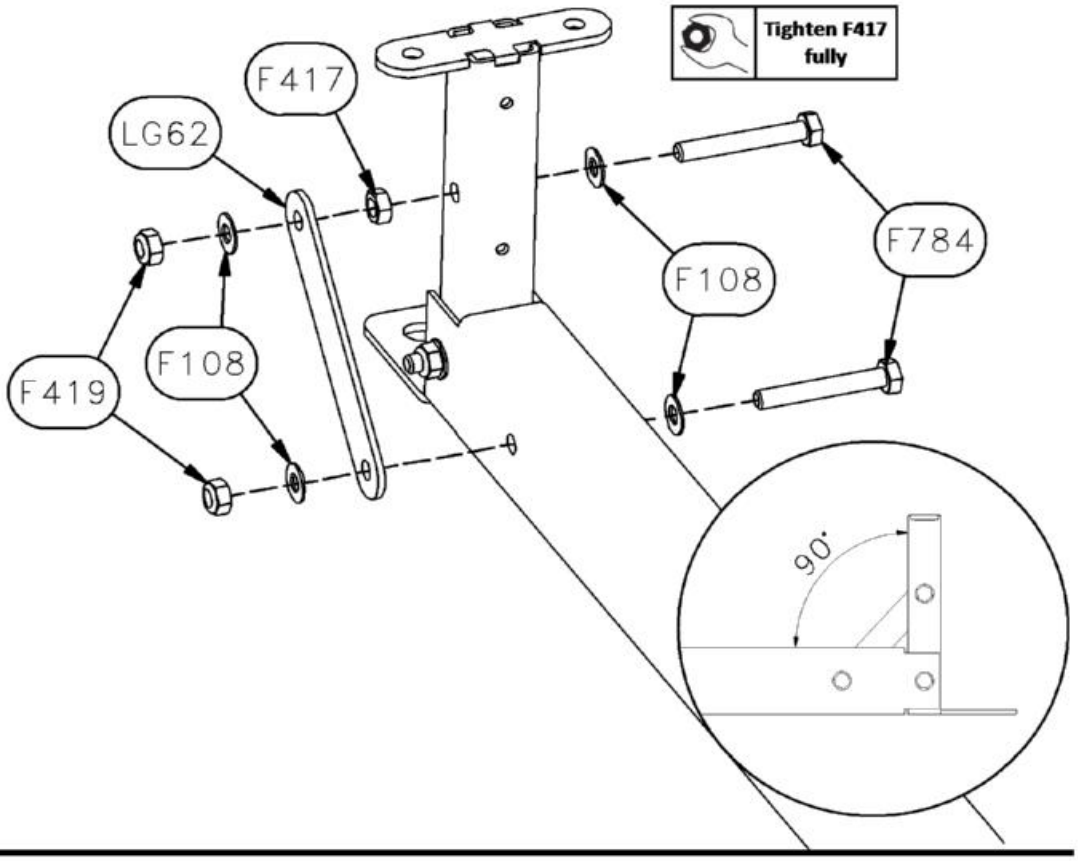
LG62	4
F784	8
F108	16
F419	8
F417	4



Finger tight only. Do not fully tighten until stage 18.



Do not permanently fix until stage 19

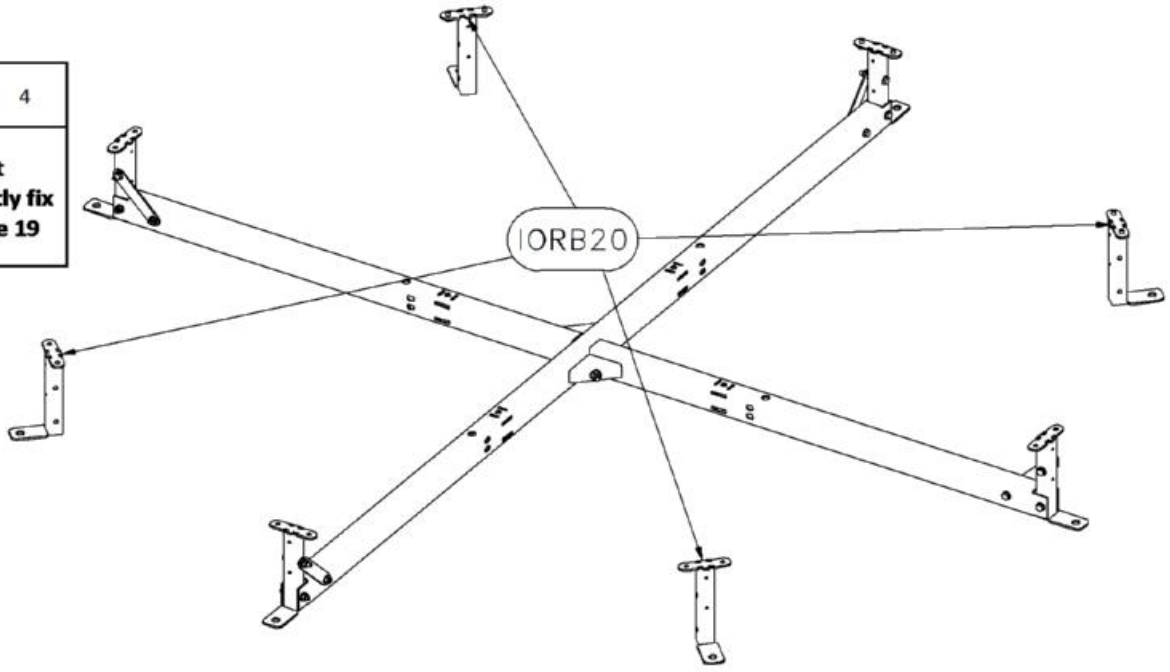


04

IORB20	4



Do not permanently fix until stage 19

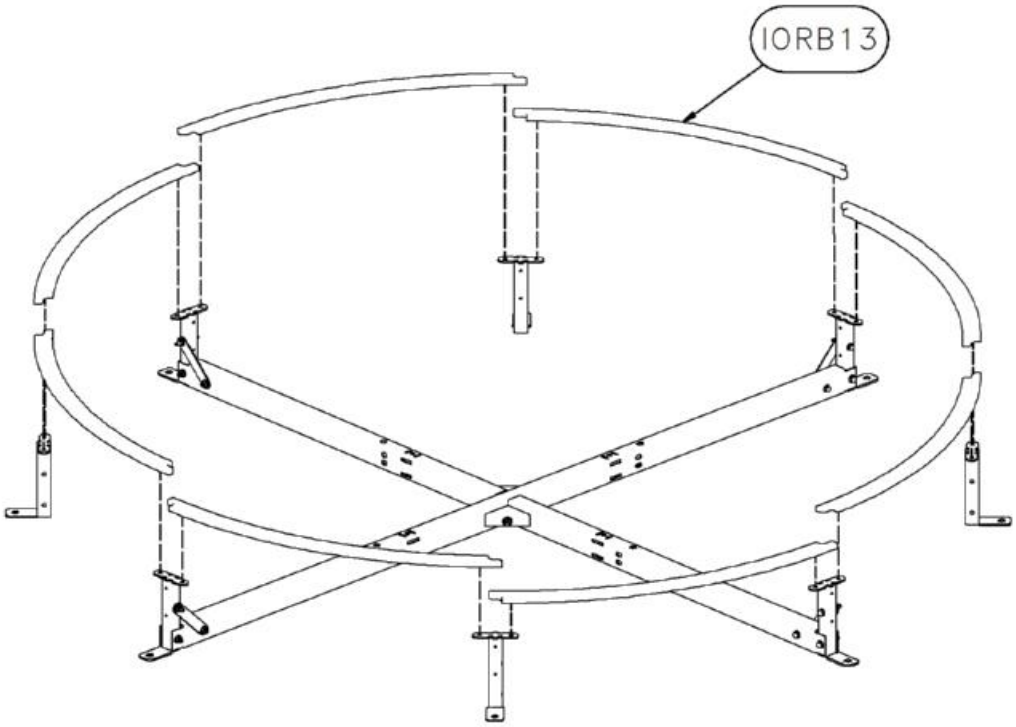


05

IORB13	8



Do not permanently fix until stage 19



06

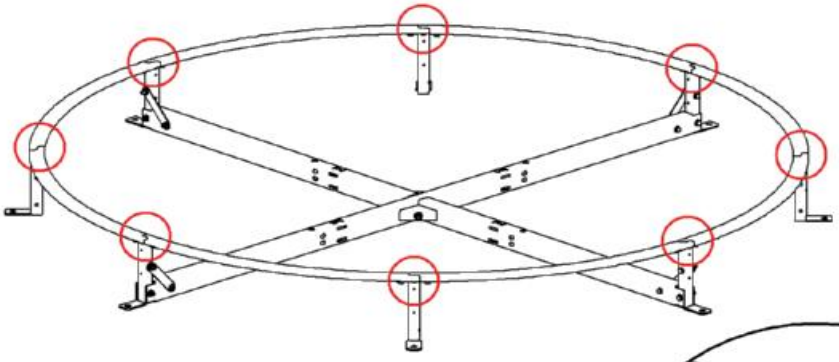
F786	16
F108	16

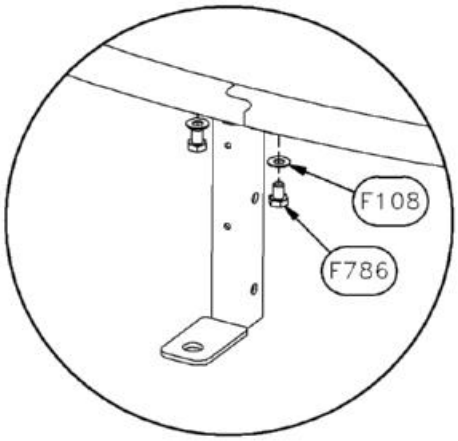


Finger tight only. Do not fully tighten until stage 18.



Do not permanently fix until stage 19



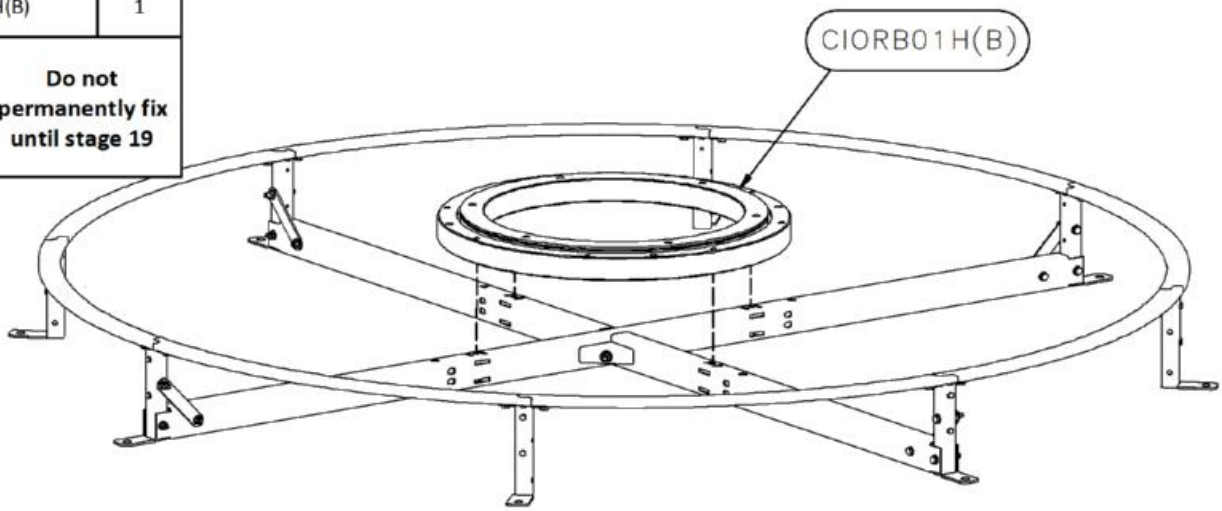


07

CIORB01H(B)	1



Do not permanently fix until stage 19



08

F364	4
IORB22	4



Finger tight only. Do not tighten until stage 15



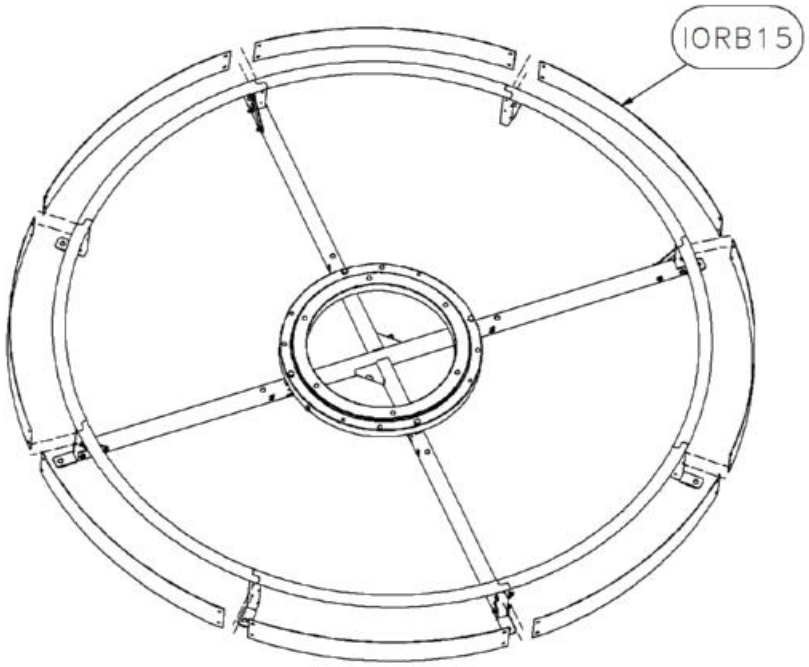
Do not permanently fix until stage 19

09

IORB15	8



Do not permanently fix until stage 19



10

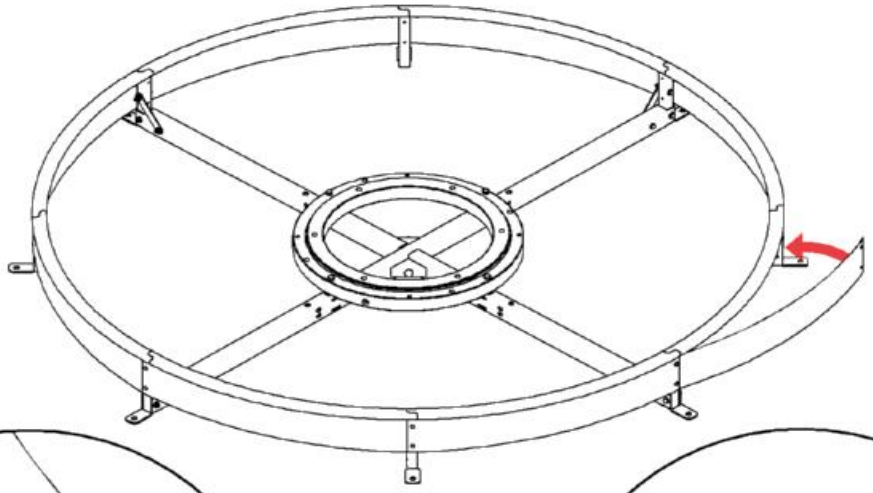
F787	16

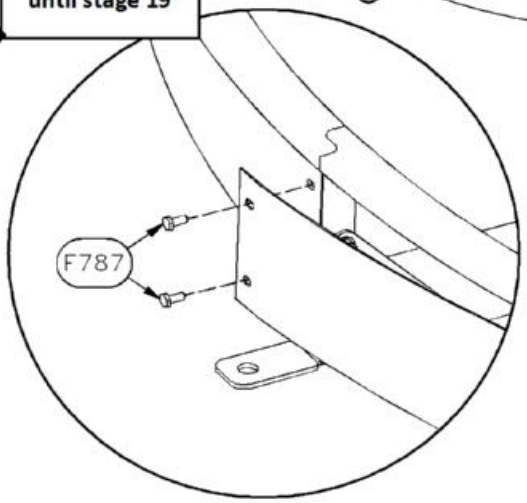


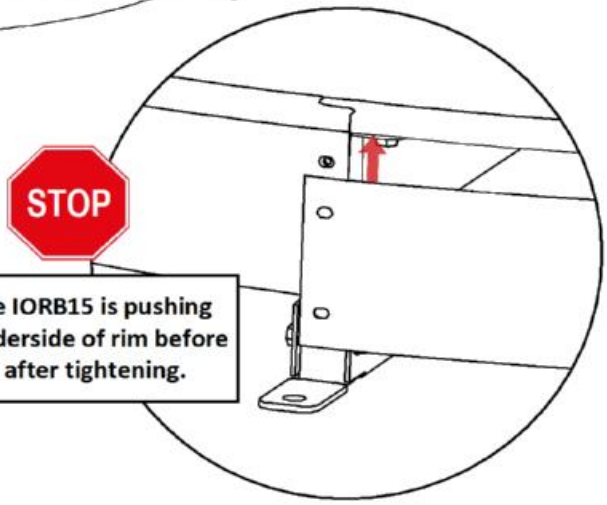
Do not fully tighten until stage 18



Do not permanently fix until stage 19







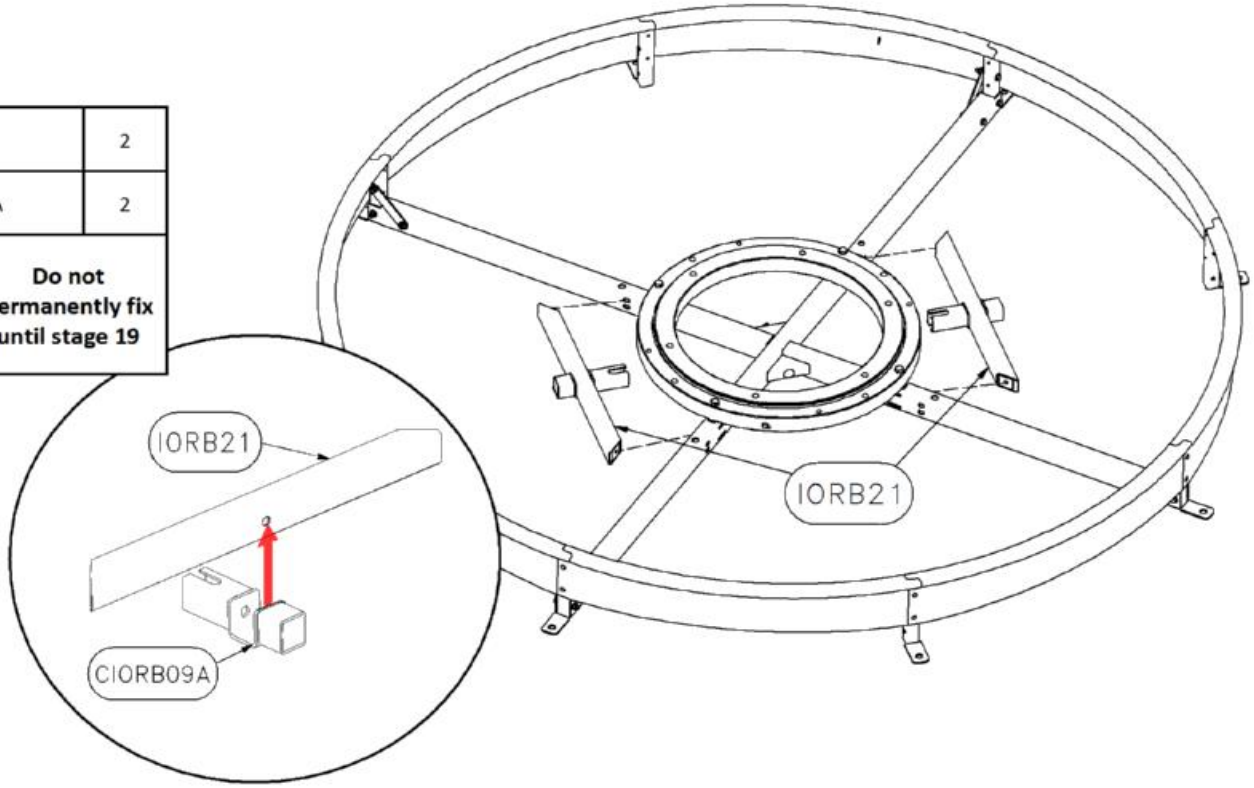
Ensure IORB15 is pushing into underside of rim before and after tightening.

11

IORB21	2
CIORB09A	2



Do not permanently fix until stage 19



12

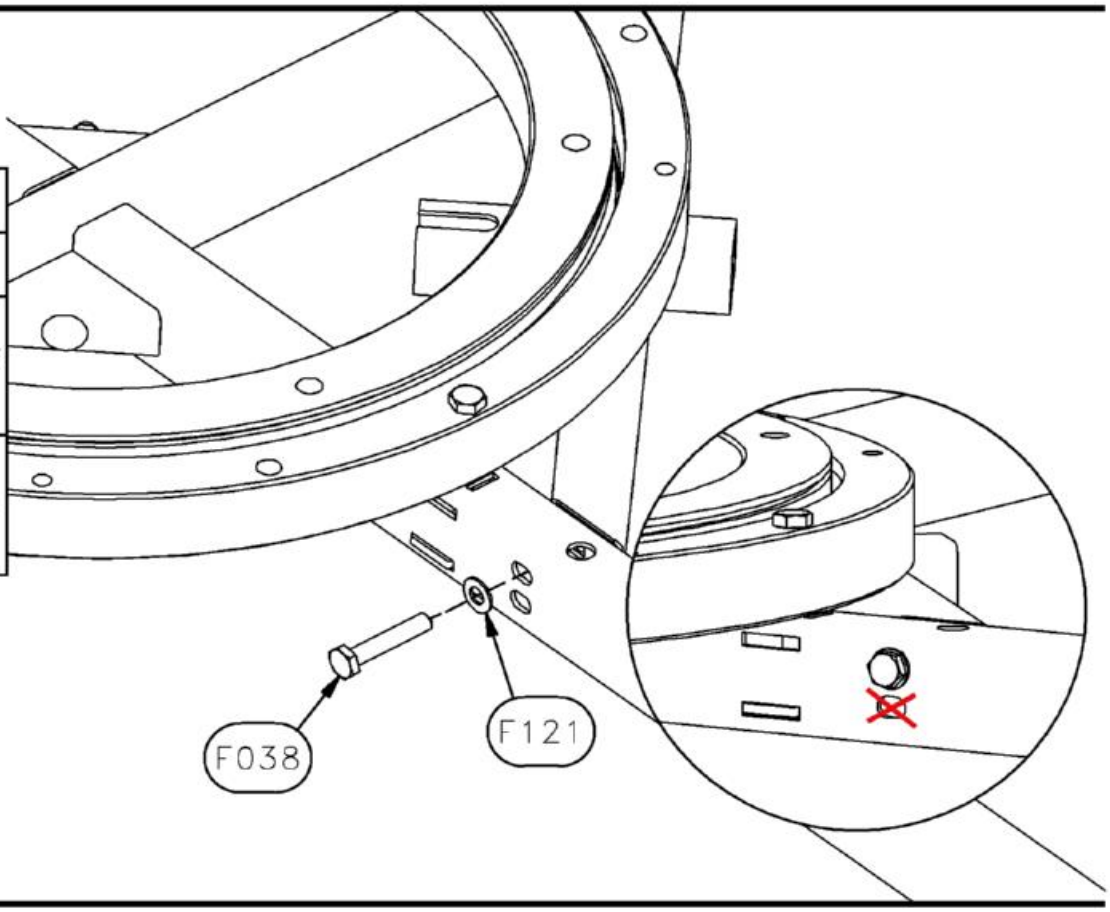
F038	4
F121	4



Finger tight only. Do not fully tighten until stage 18



Do not permanently fix until stage 19

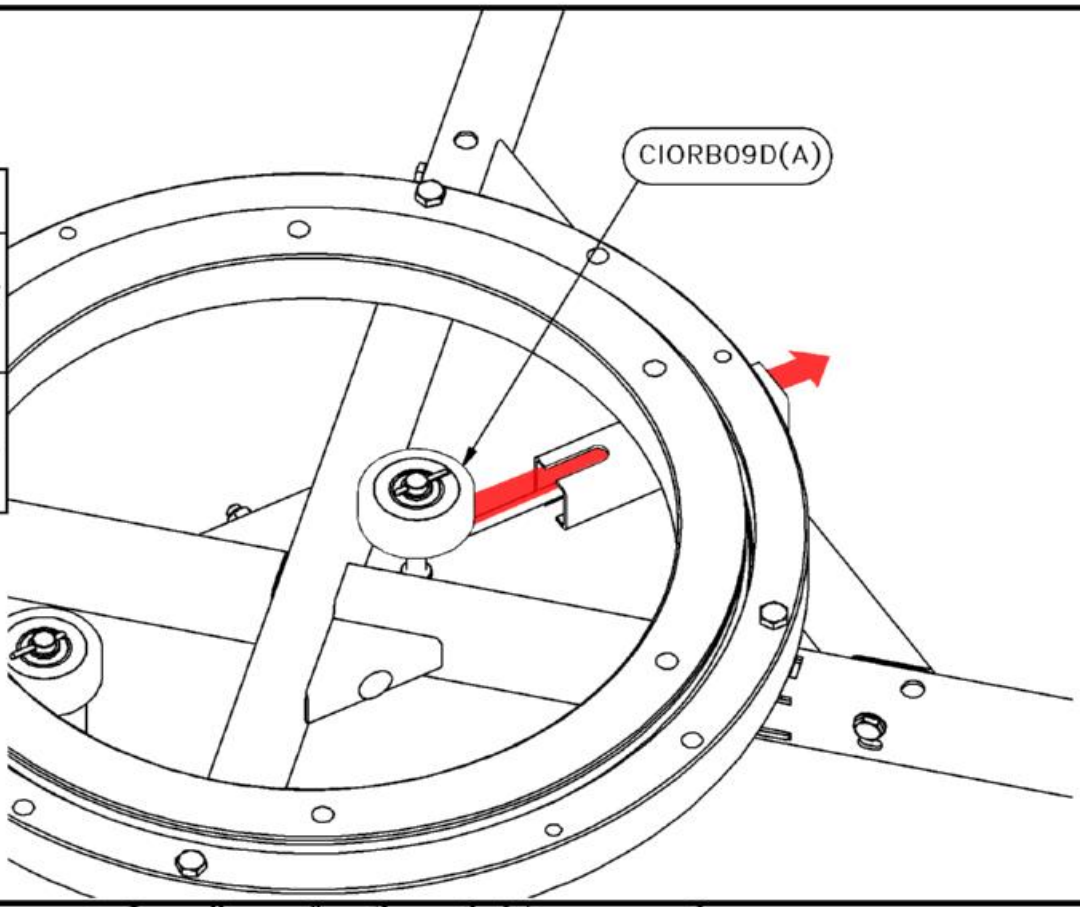


13

CIORB09D(A)	1

Finger tight only. Do not fully tighten until stage 18

Do not permanently fix until stage 19

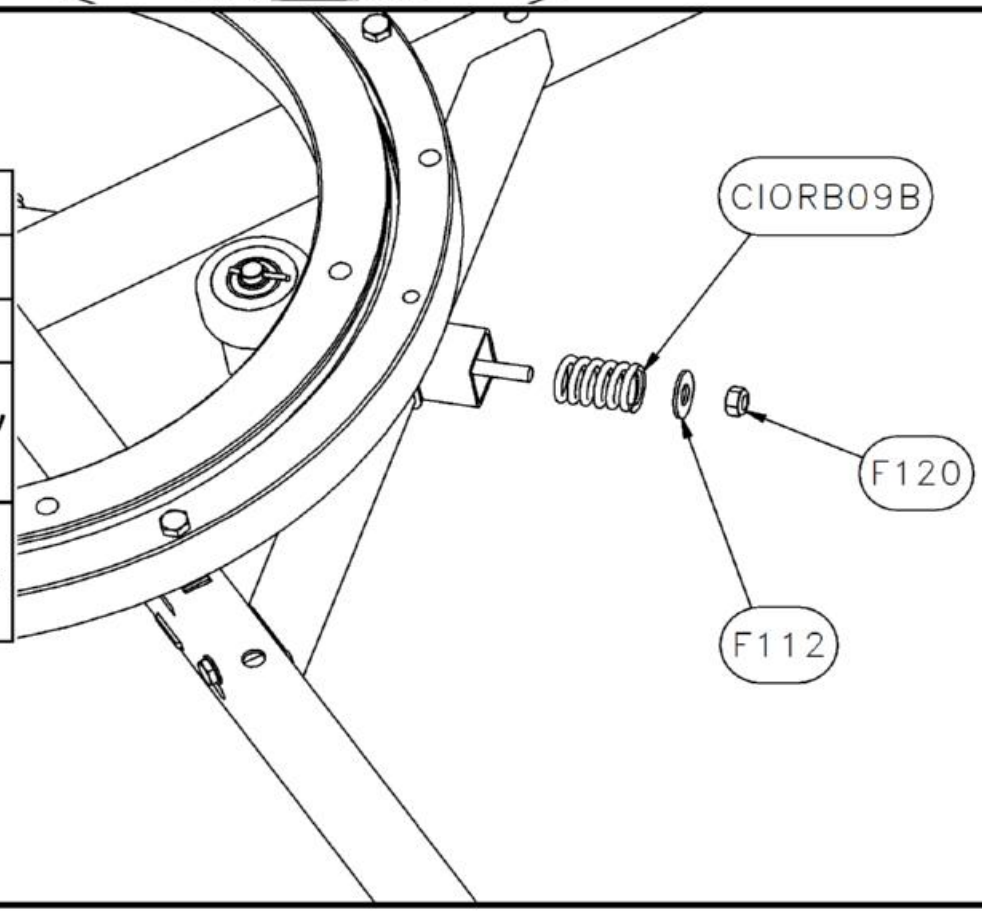


14

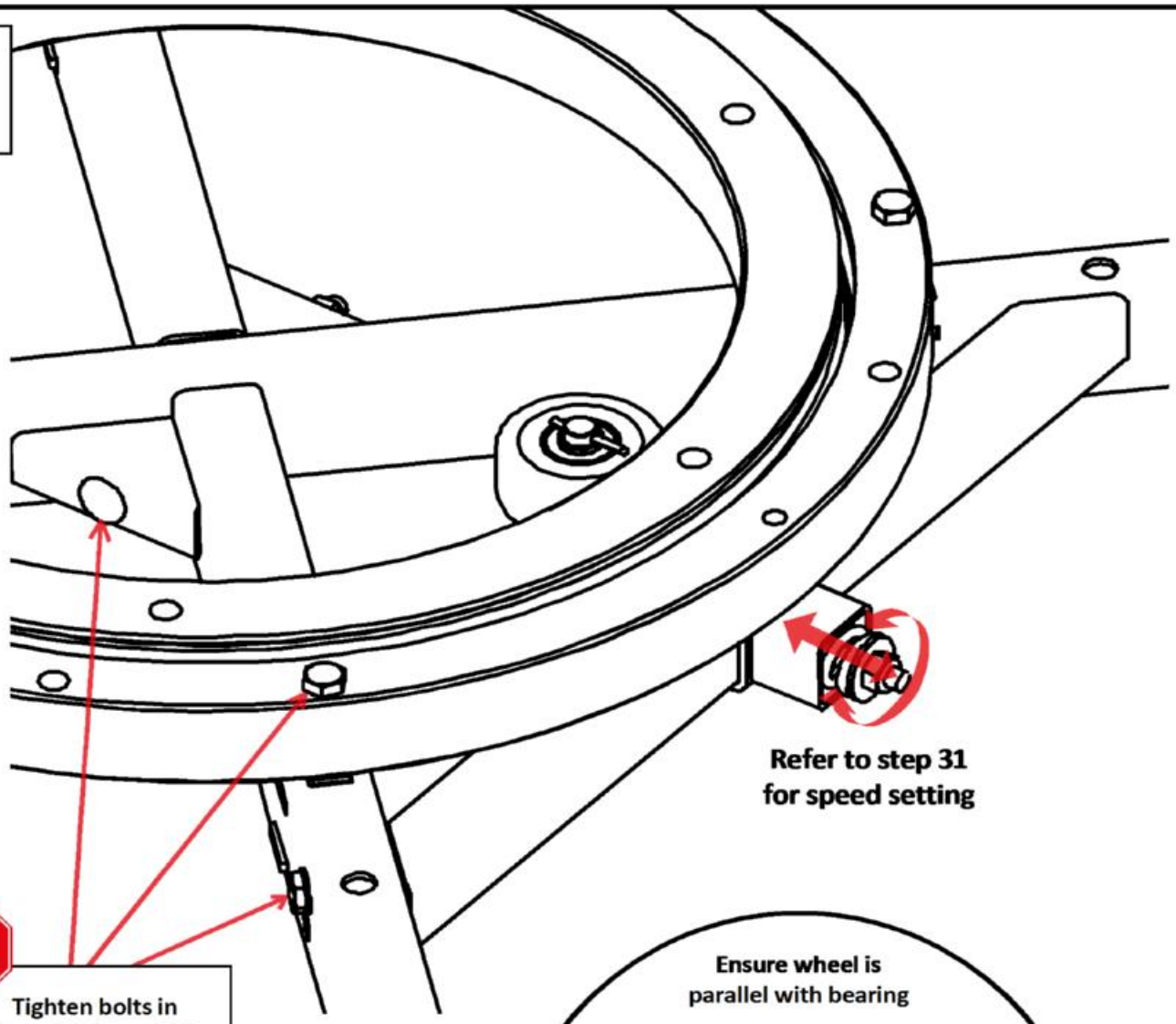
CIORB09B	1
F120	1
F112	1

Finger tight only. Do not fully tighten until stage 18

Do not permanently fix until stage 19

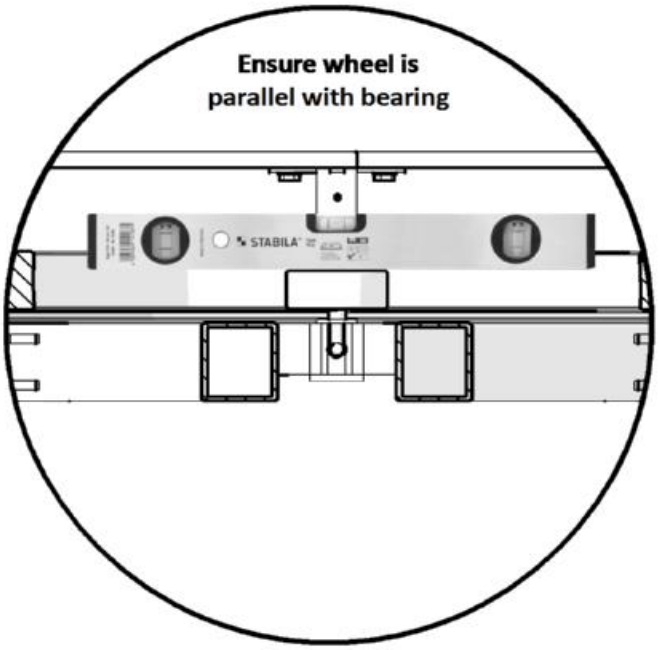


15



STOP

Tighten bolts in steps, 01, 08 and 12, **15 ft-lb** (20Nm)





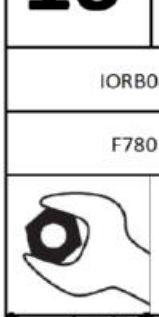
Do not permanently fix until stage 19

Tighten until the washer is inline with the box edge (both sides). This should be checked to ensure the roundabout does not exceed 30 r/min.

Washers could be added to make tensioning easier, not supplied with the unit.

16

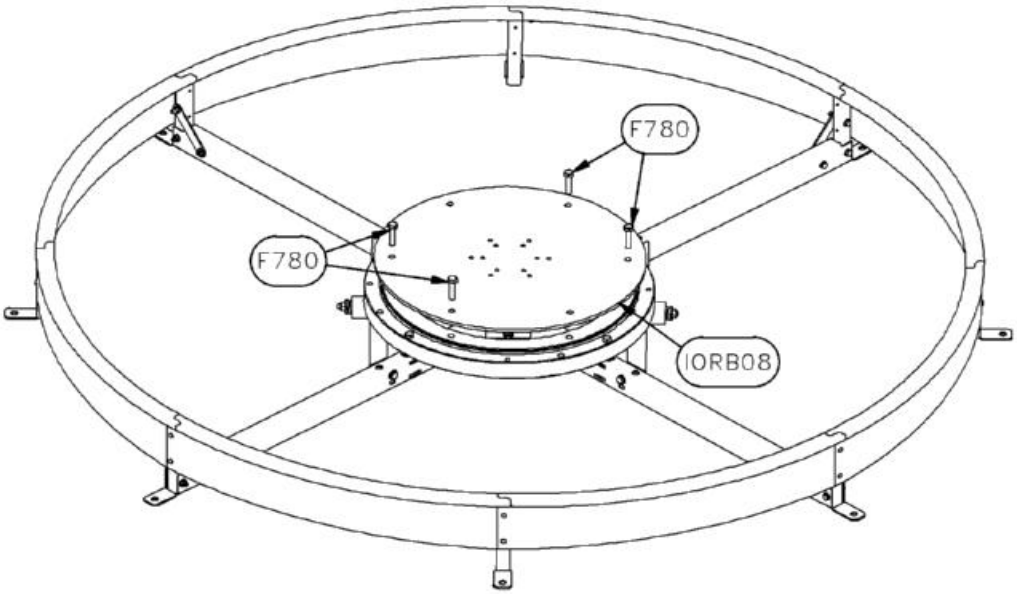
IORB08	1
F780	4



Torque to 15 ft-lb (20Nm)



Do not permanently fix until stage 19



17

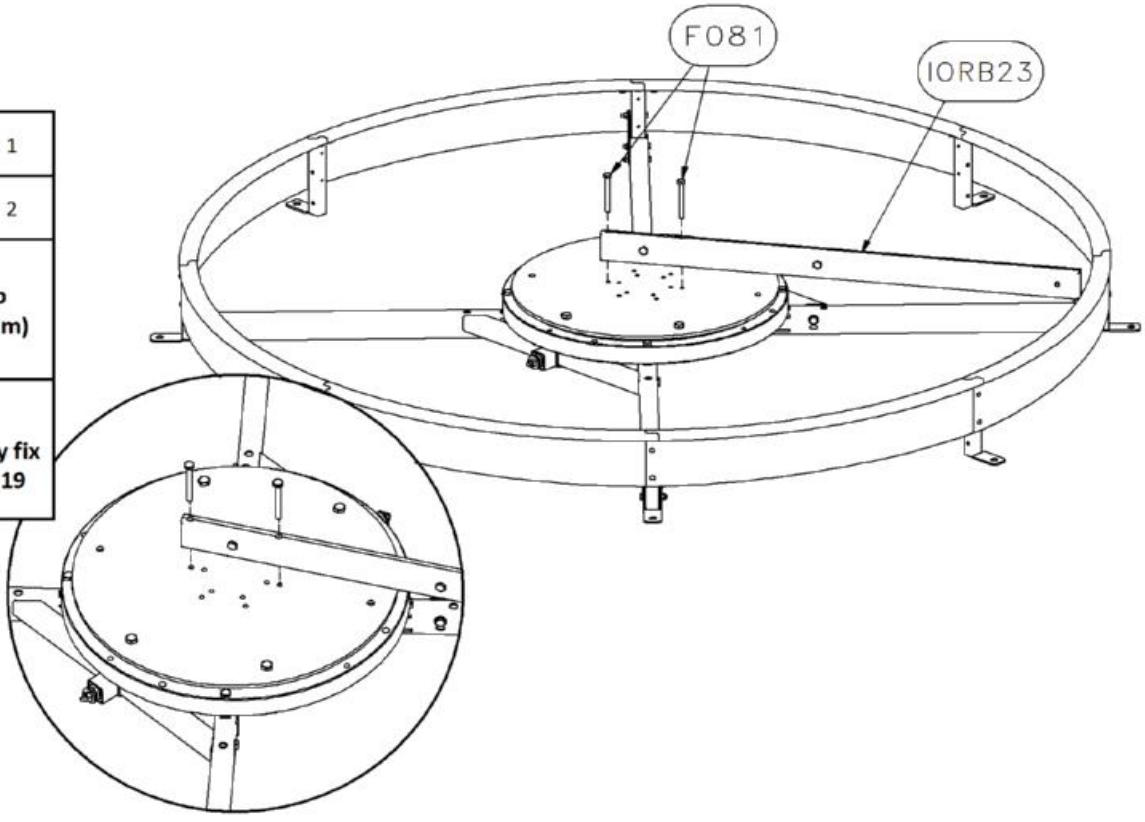
IORB23	1
F081	2



Torque to 7 ft-lb (10Nm)



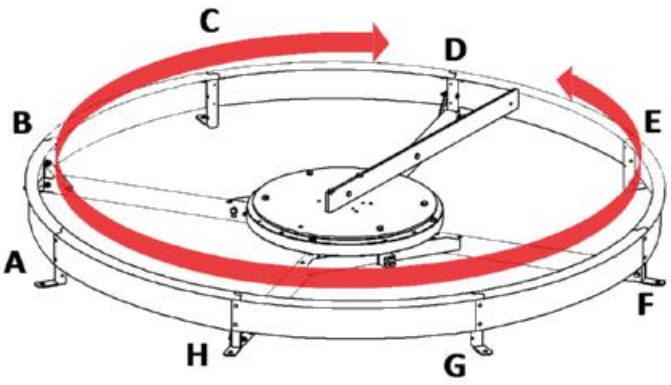
Do not permanently fix until stage 19

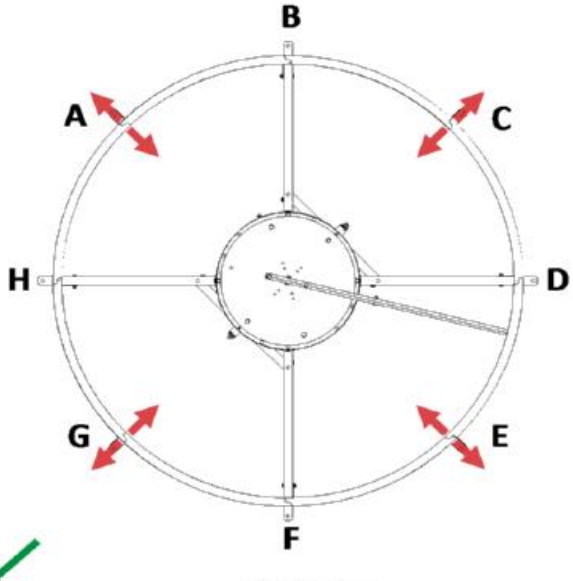


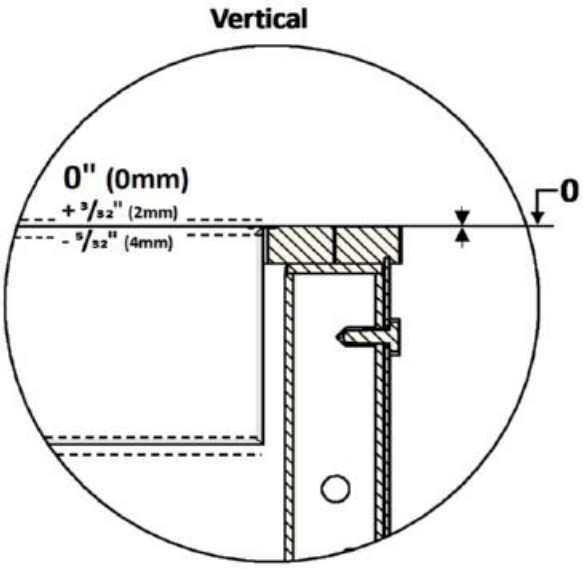
18

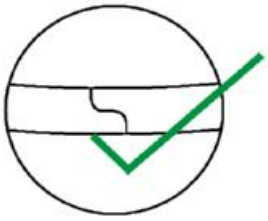
STOP

- **This step MUST be followed properly to ensure compliance with safety standards**
- **Ensure all bolts are loose before adjusting**

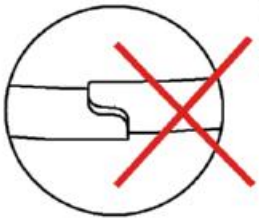


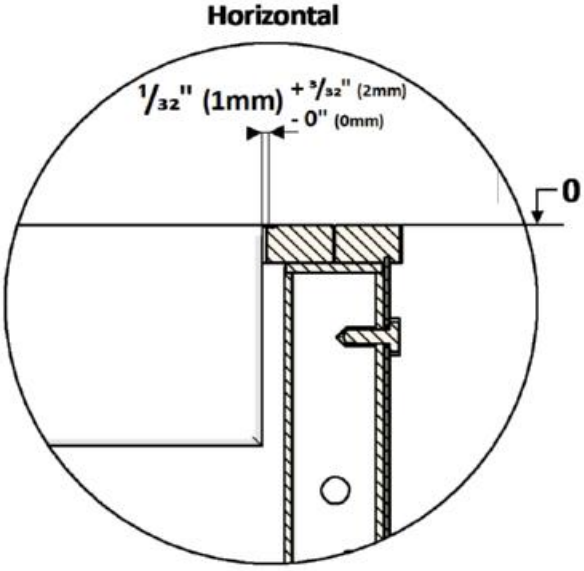






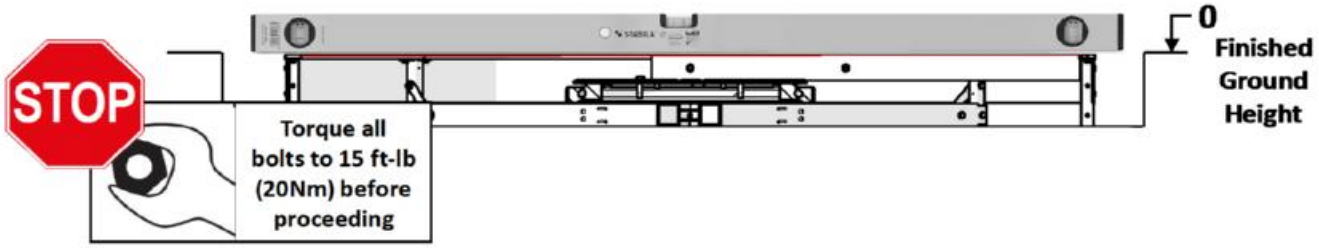
Ensure gap between rim sections are tight, parallel and level.





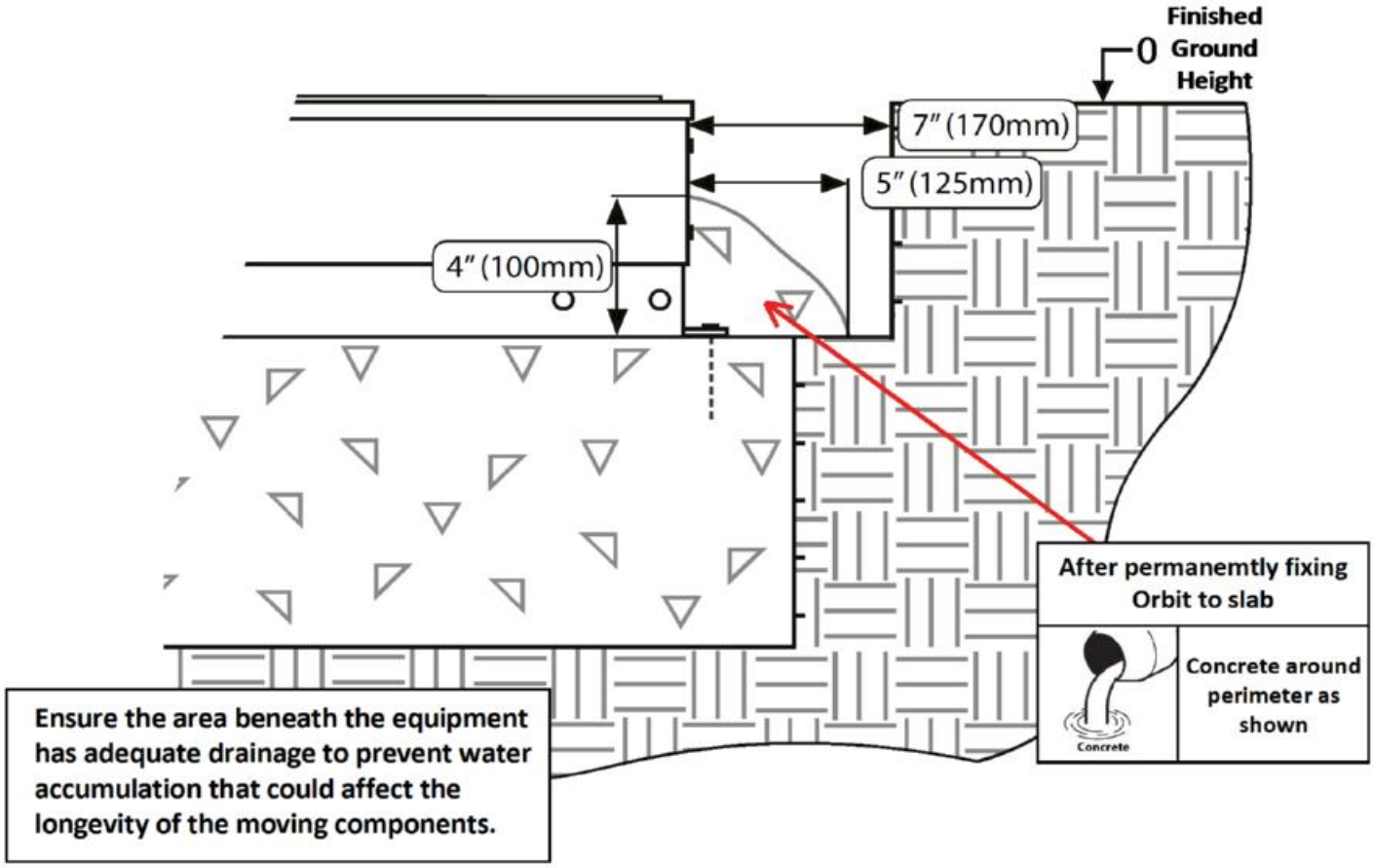
Vertical and Horizontal checks at points A through H MUST equal one another

A = B = C = D = E = F = G = H

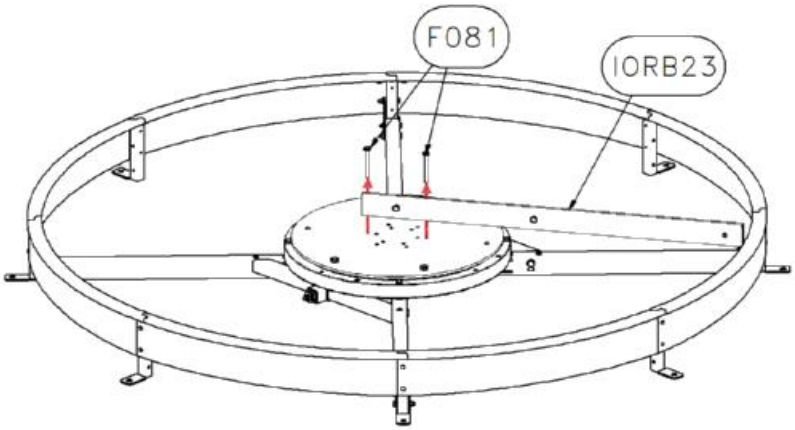


19

While permanently fixing unit to concrete slab, continue rotating jig IORB23 around the unit to ensure dimensions from step 18 are held. Failure to do so risks non-complianvce with saftey standards.



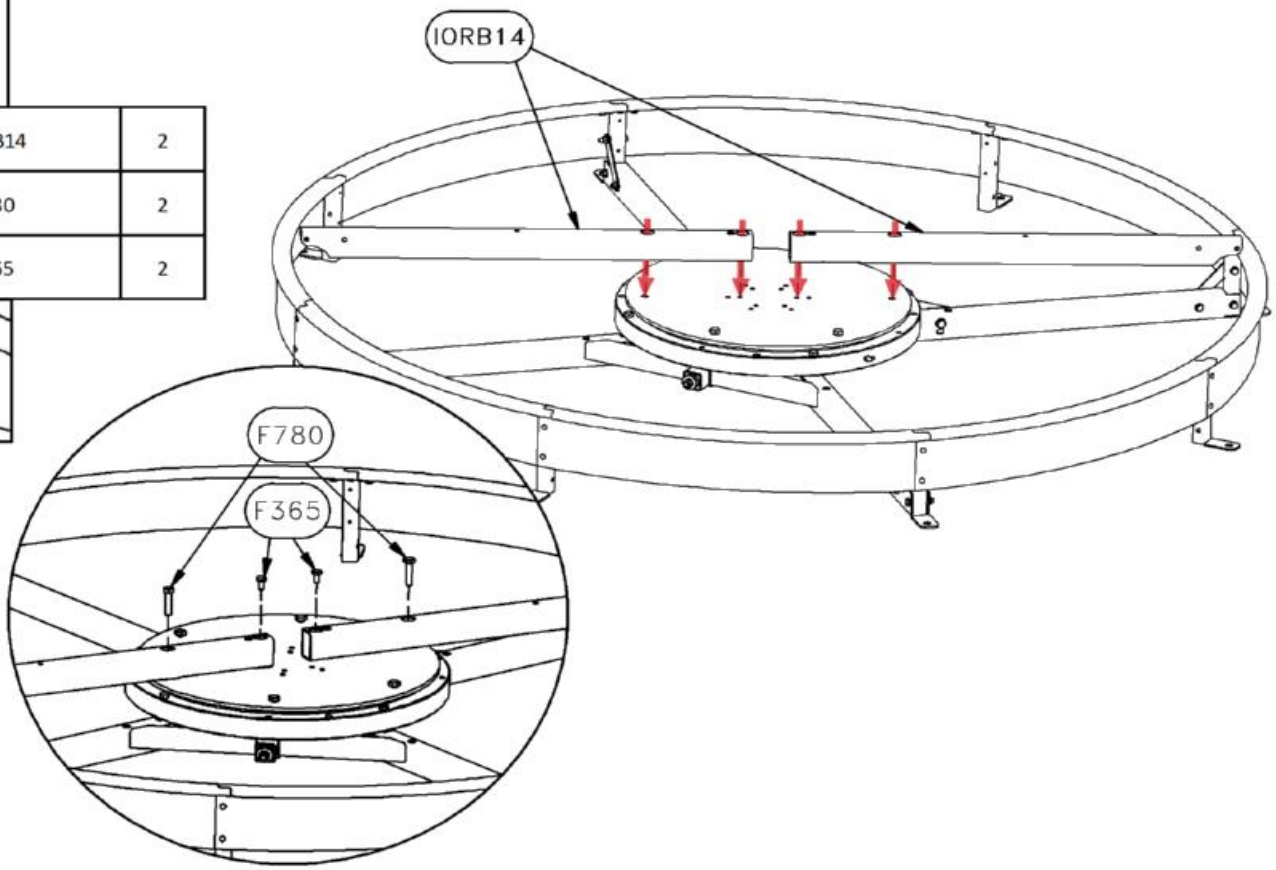
20



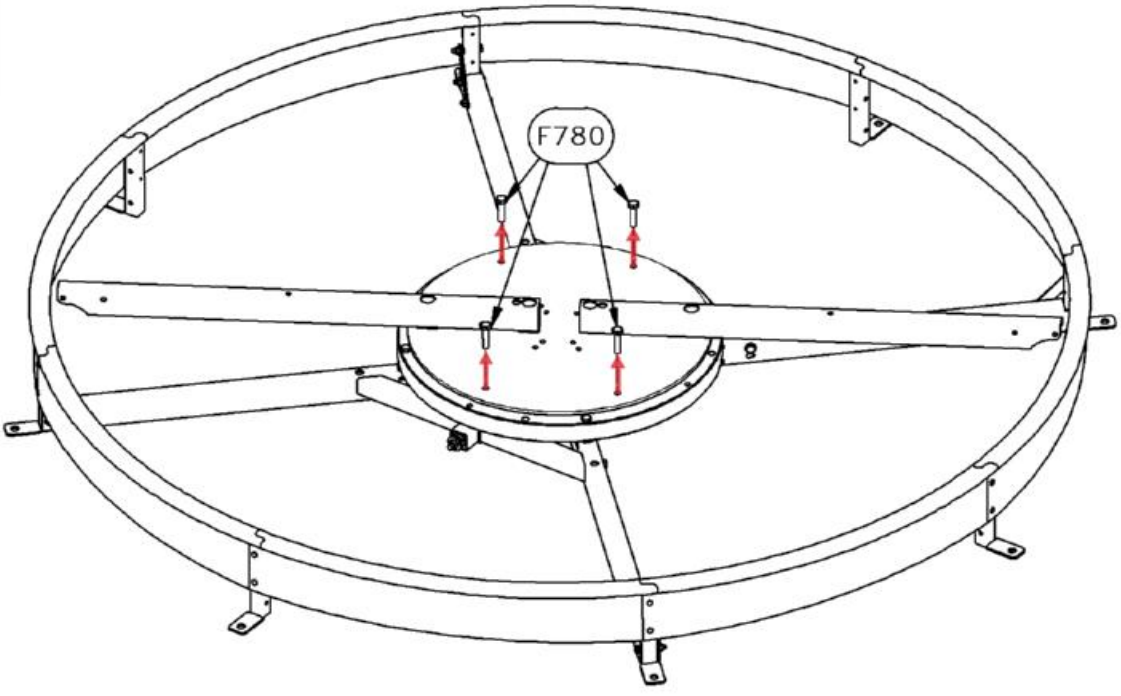
21

IORB14	2
F780	2
F365	2



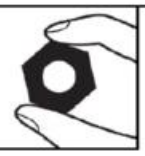


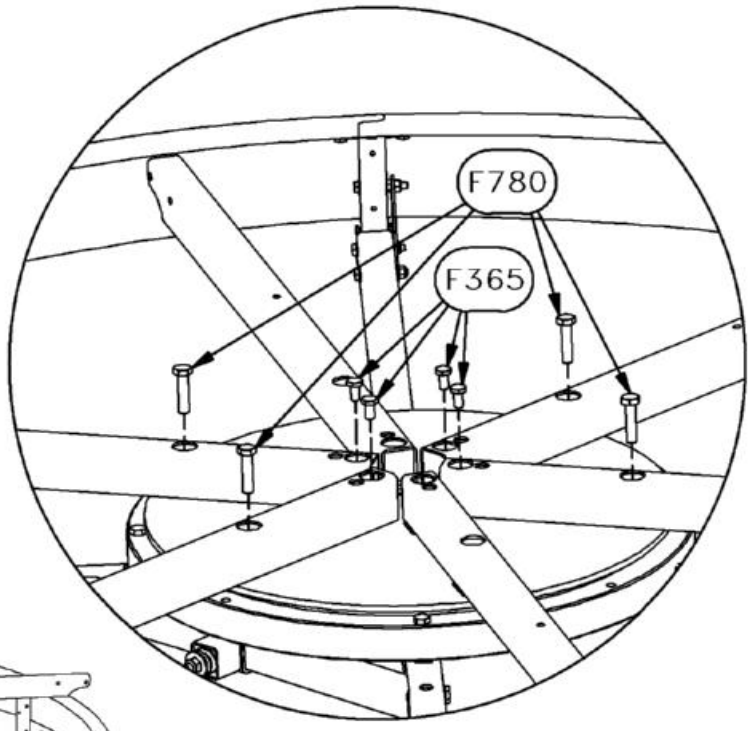
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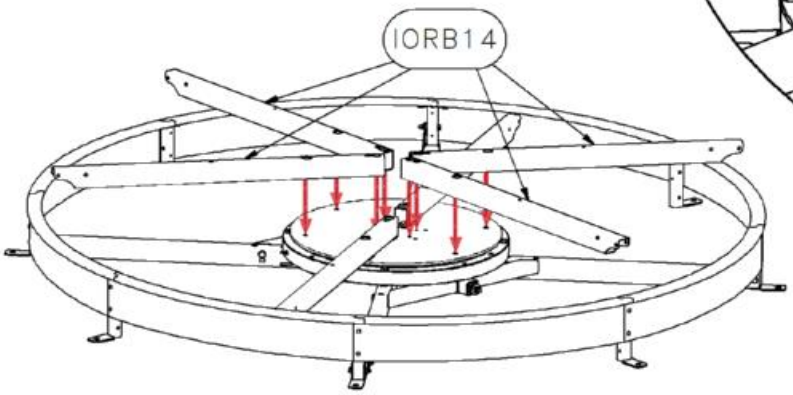


23

IORB14A	4
F780	4
F365	4

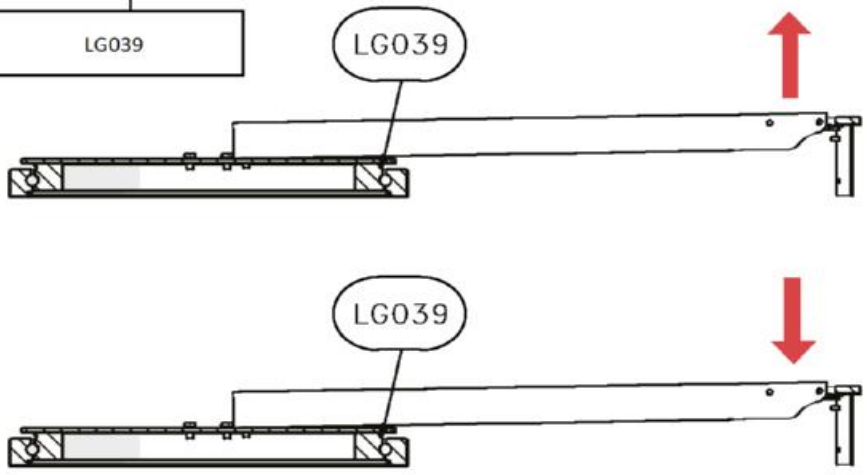


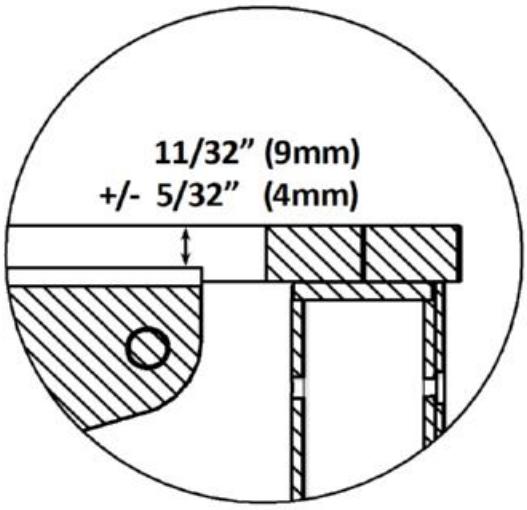




24

LG039

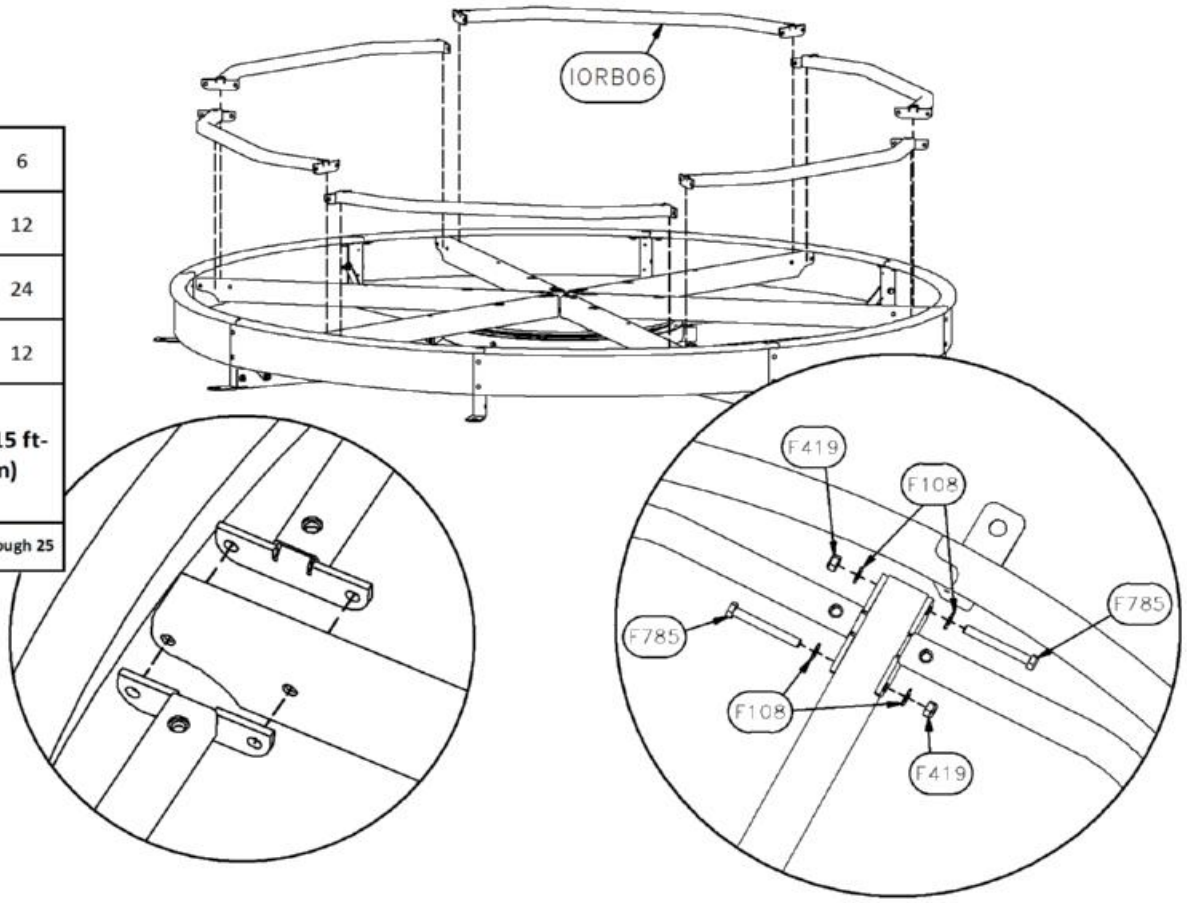




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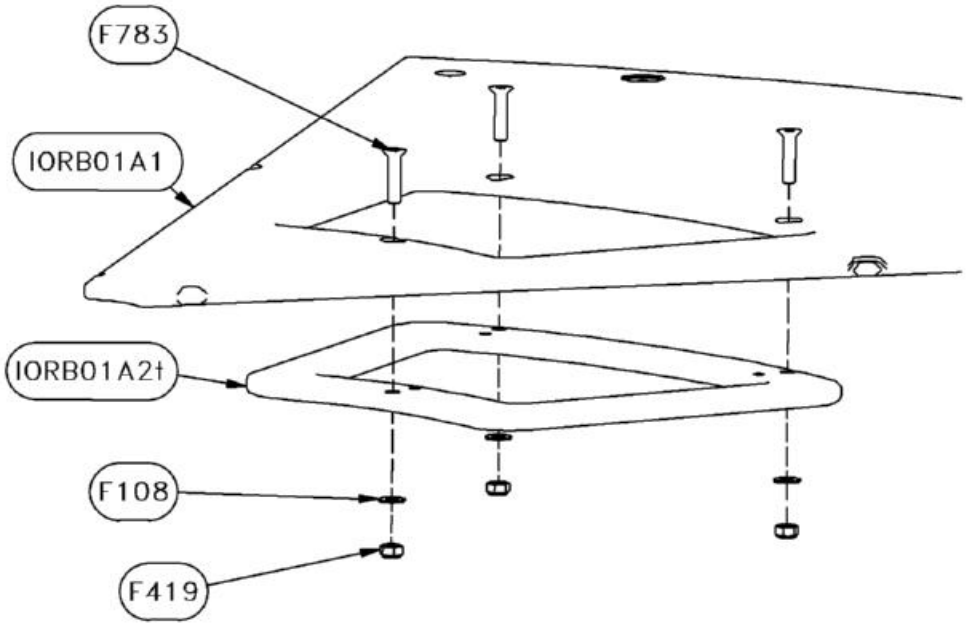
IORB06	6
F419	12
F108	24
F785	12
Torque to 15 ft-lb (20Nm)	

Including all bolts from step 21 through 25



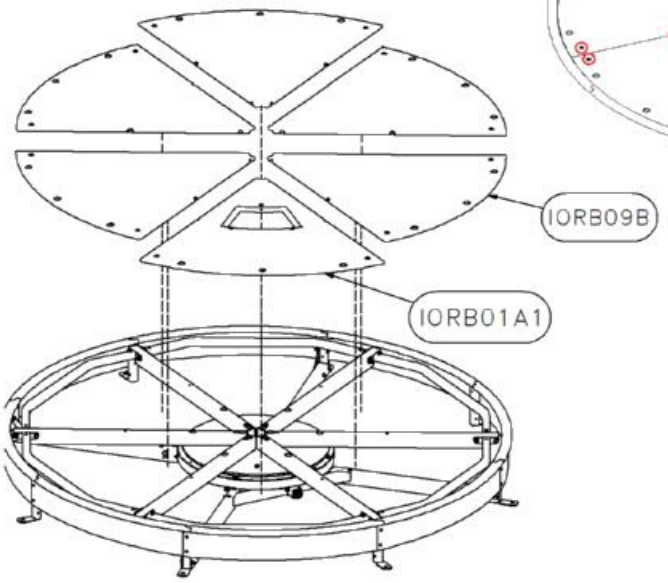
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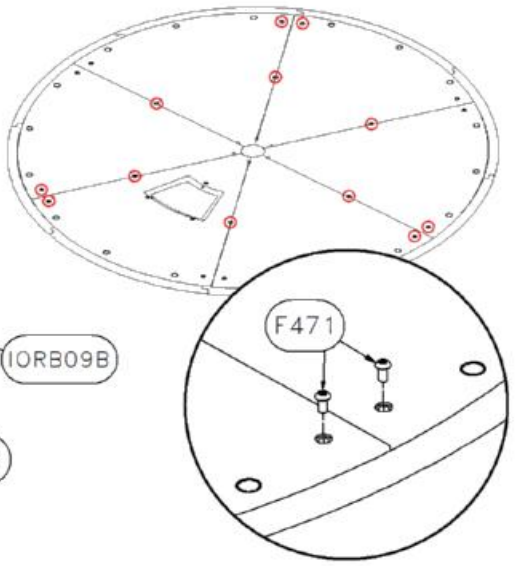
IORB01A1	1
IORB01A2t	1
F783	3
F108	3
F419	3
Torque to 7 ft-lb (10Nm)	



27

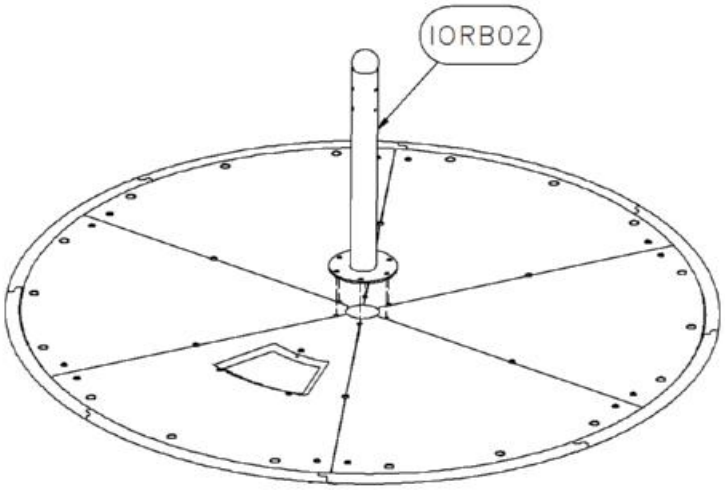
IORB1A1	1
IORB09	5
F471	12
Torque to 7 ft-lb (10Nm)	

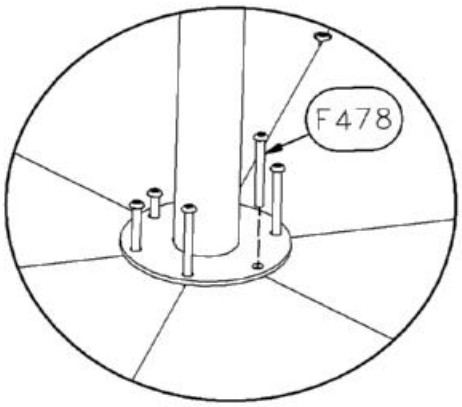


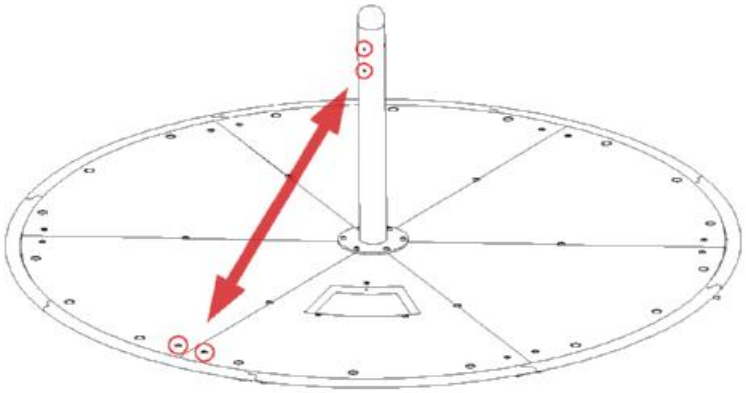


28

IORB02	1
F478	6
Torque to 7 ft-lb (10Nm)	



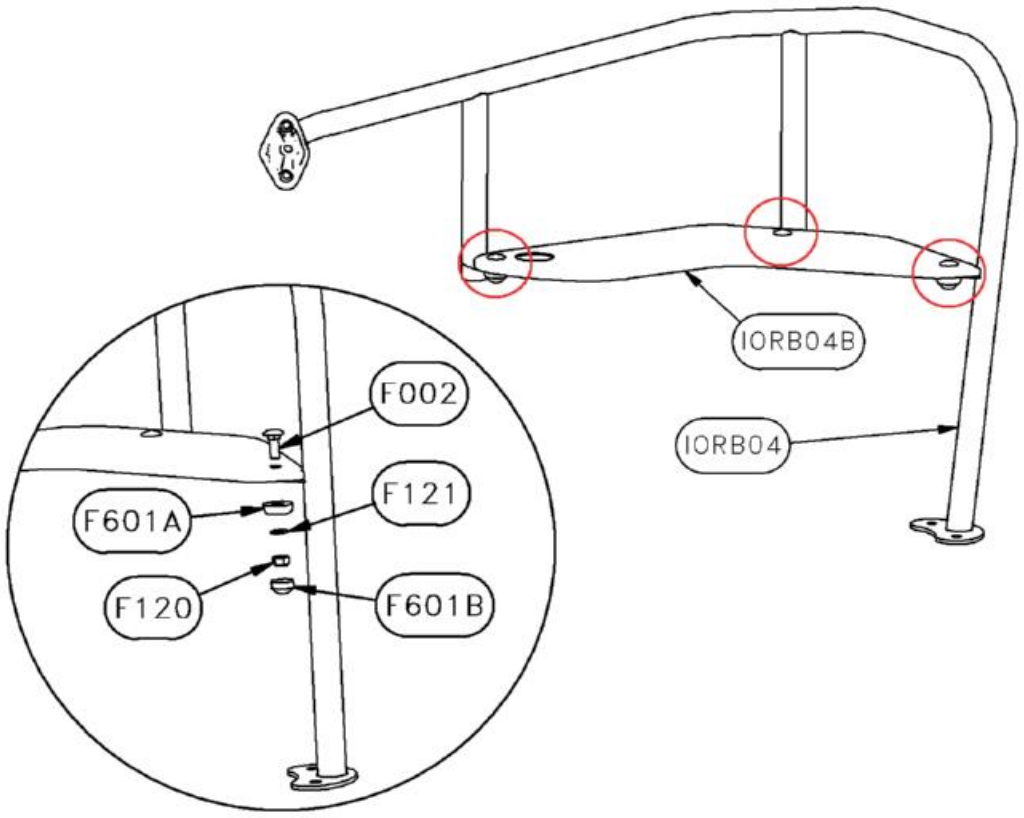




29

IORB04	1
IORB04B	1
F002	3
F120	3
F121	3
F601A	3
F601B	3

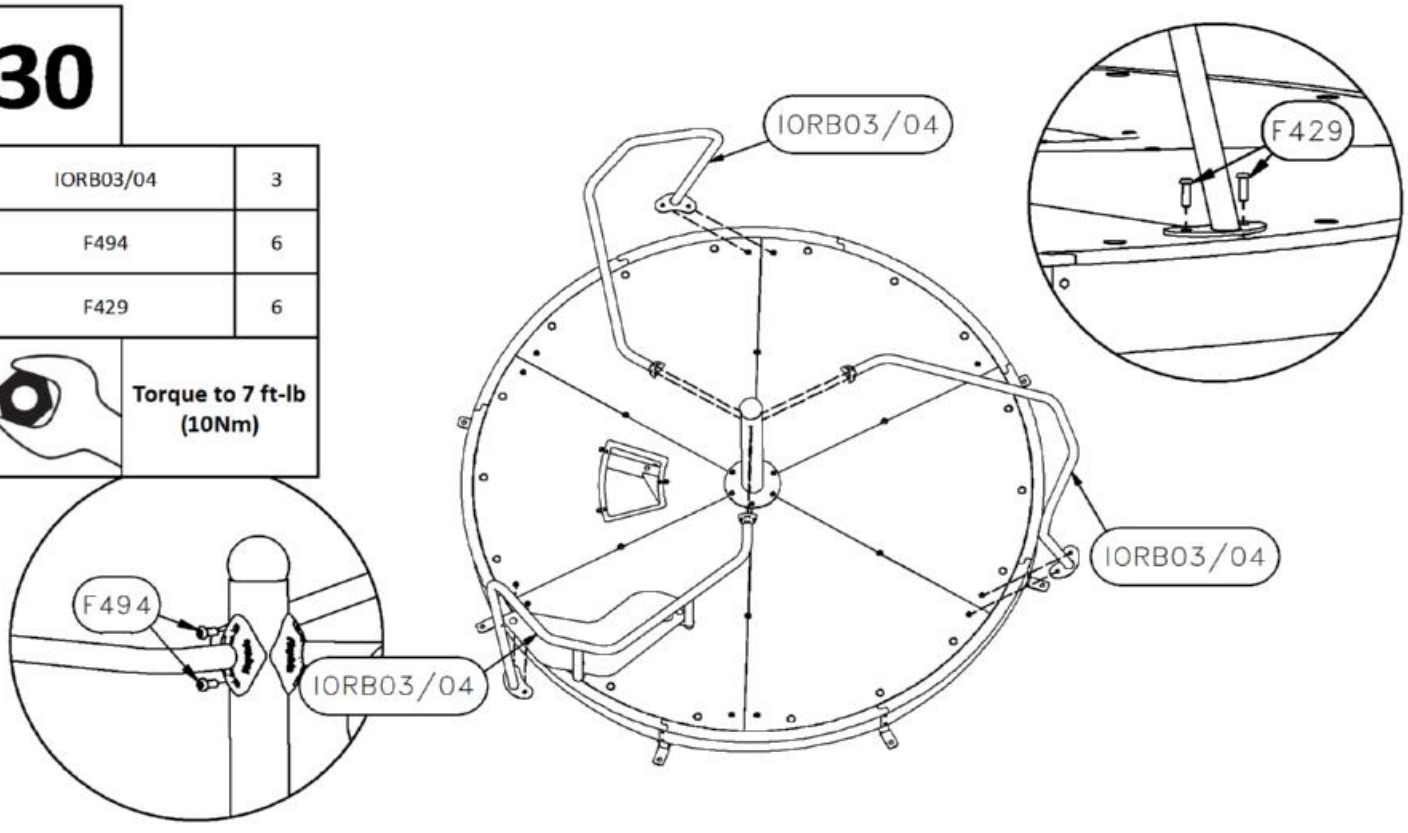
Torque to 15 ft-lb (20Nm)



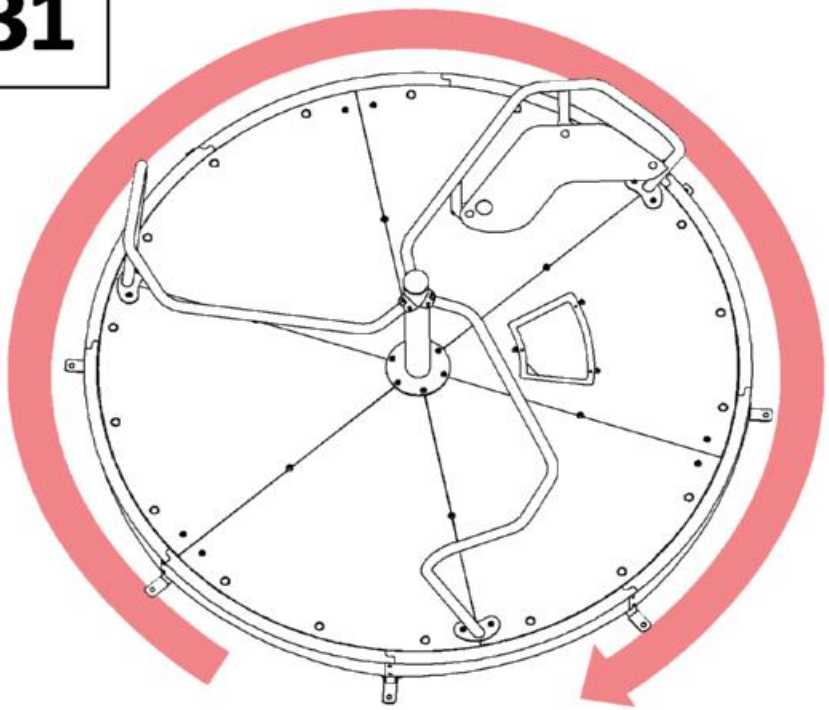
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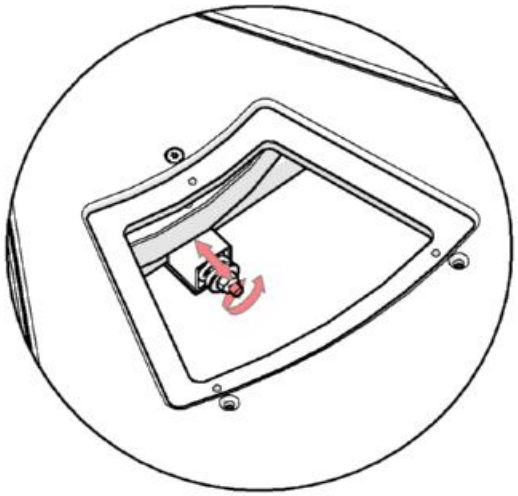
IORB03/04	3
F494	6
F429	6

Torque to 7 ft-lb (10Nm)



31

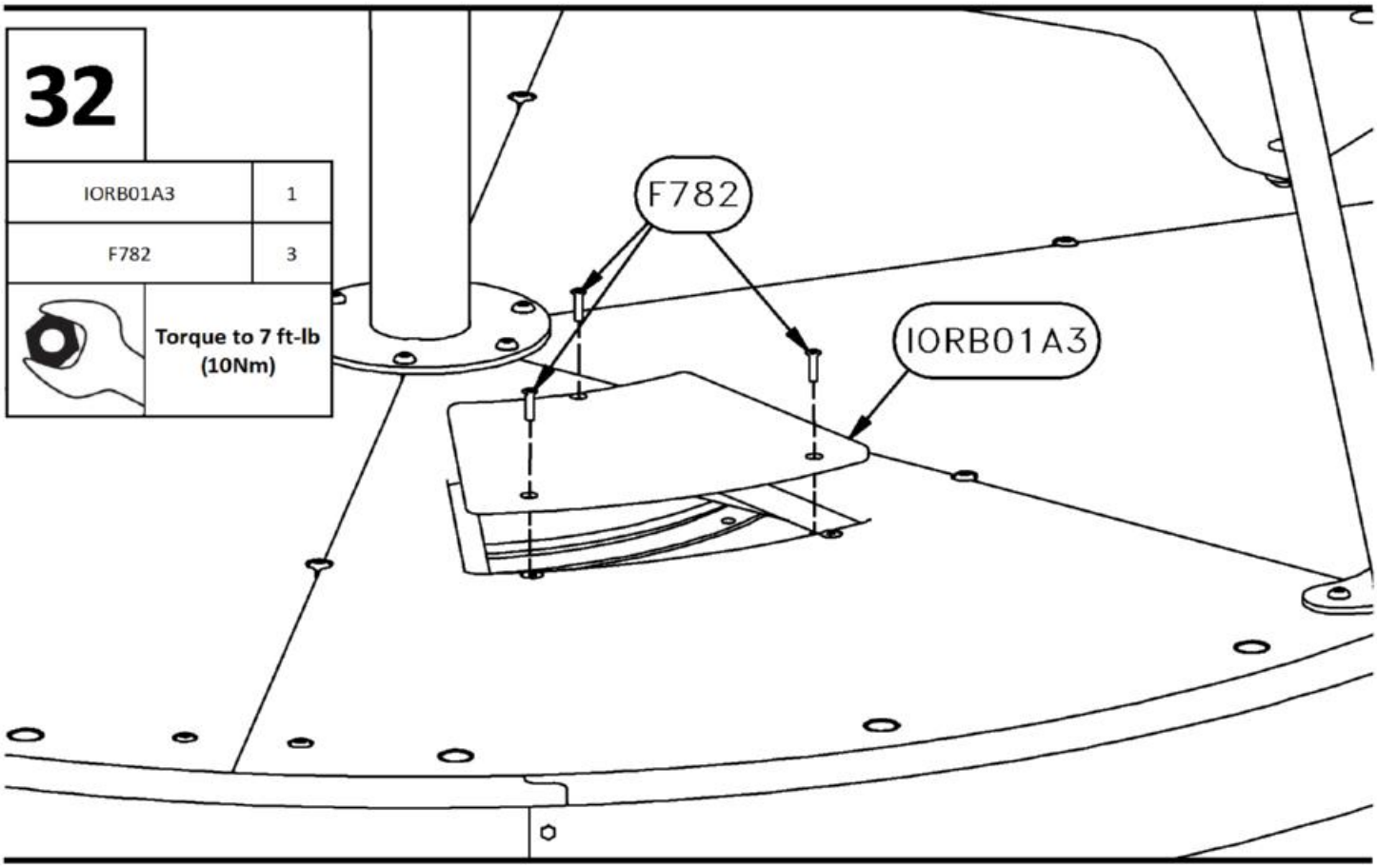




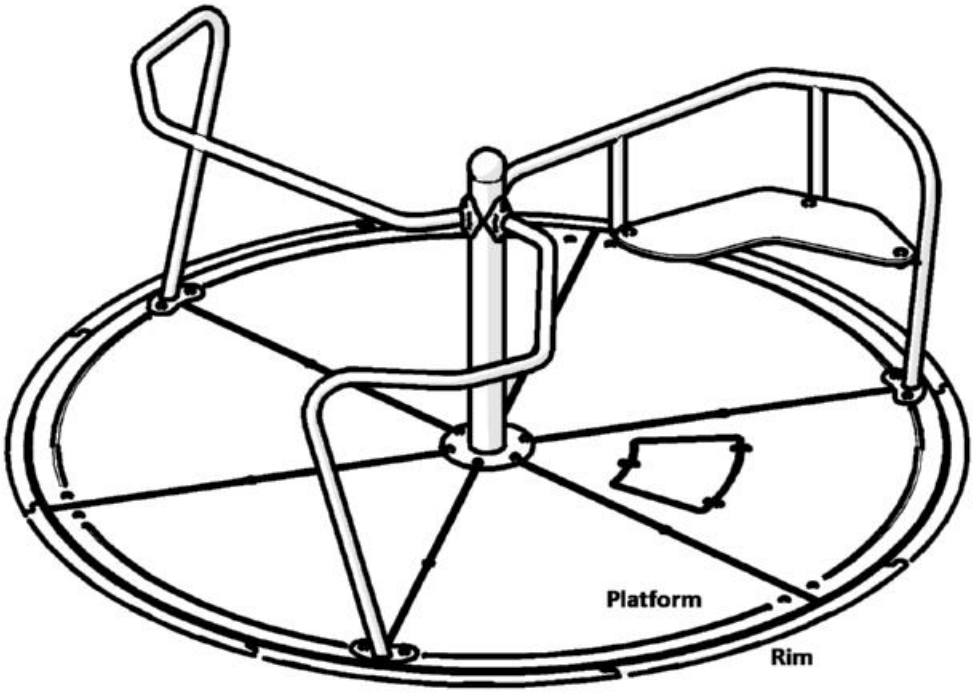
Ensure the roundabout does not exceed 30 r/min.

32

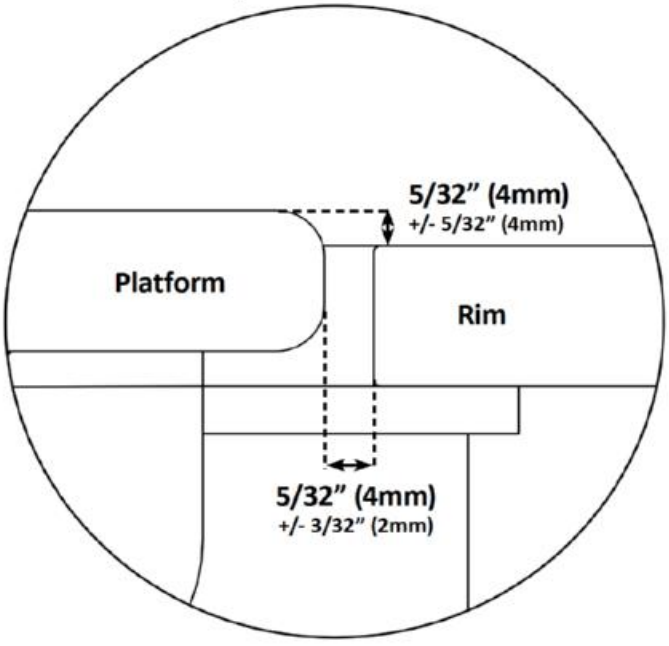
IORB01A3	1
F782	3
Torque to 7 ft-lb (10Nm)	



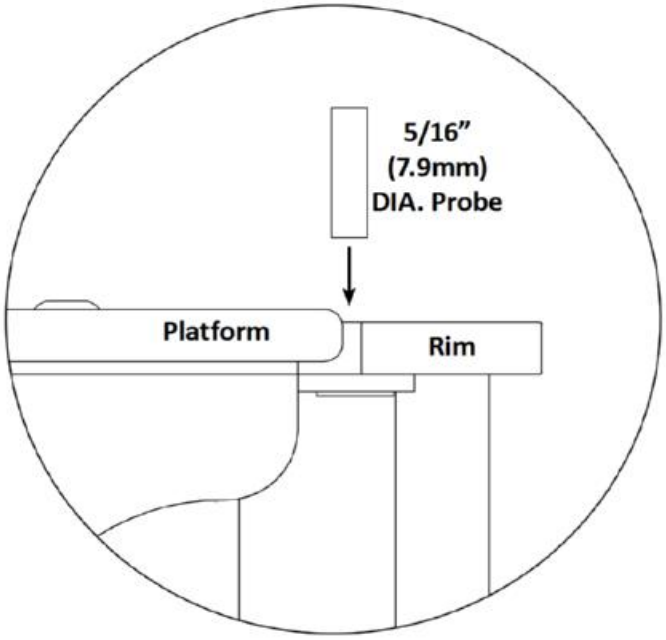
Once fully installed and before playground is used, please perform the following inspection. If unit is found to be unacceptable, as defined below, do not allow it to be used. Adjustments MUST be made.



Expected vertical and horizontal tolerence between platform and rim.



ACCEPTABLE gap less than 5/16" (7.9 mm)
Insert probe at any angle between the platform and rim. THE PROBE MUST NOT FIT AT ANY POINT TO BE COMPLIANT.



65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65280
65281

Parts List				
DESCRIPTION	65280	65281	65282	PART NUMBER
BUTTON STEP	1	1	1	315509
FOOTBUCK 10"	1	0	0	316196
FOOTBUCK 20"	0	1	0	316200
FOOTBUCK 30"	0	0	1	316203
HARDWARE COMPLETE	1	1	1	316198
3/8" x 1" P.B.H.C.S. w/PATCH	4	4	4	812050
3/8" LOCK WASHER	4	4	4	817334
3/8" FLAT WASHER	4	4	4	817410



65282

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

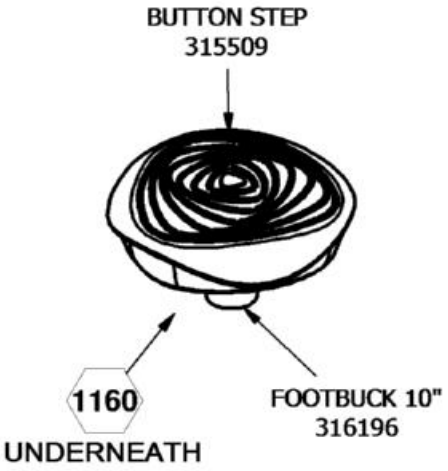
INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Button Step. Refer to order top view.
2. Dig required holes, refer to elevation view and order plan view for correct location and size.
3. Attach Button Step to correct Footbuck. Refer to order parts list. See Detail 1160.
4. Place Footbuck and Button Step assembly into hole.
5. Plumb and level the entire assembly and tighten all fasteners.
6. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure for at least 48 hours before use. Temporary may be required until concrete cures.

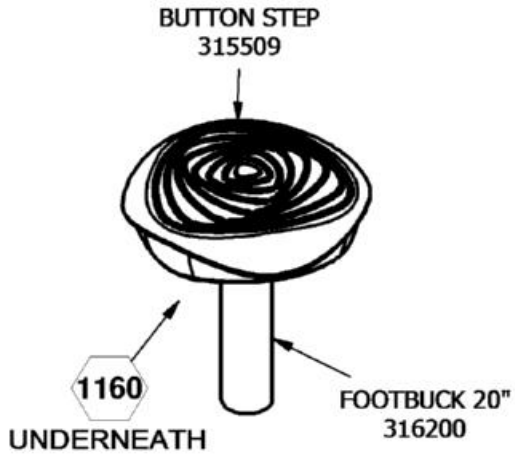
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

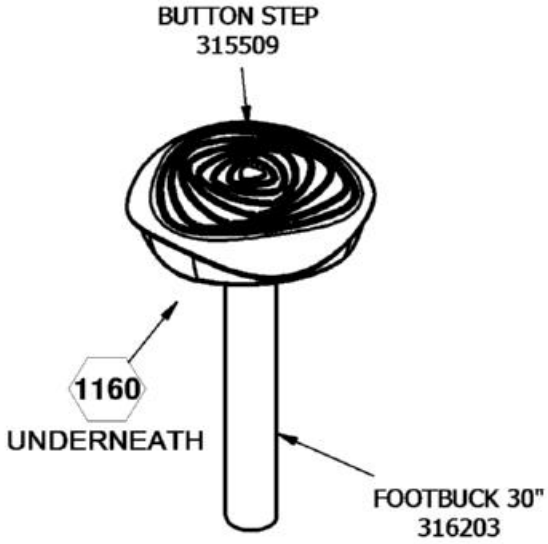
65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65280 SHOWN

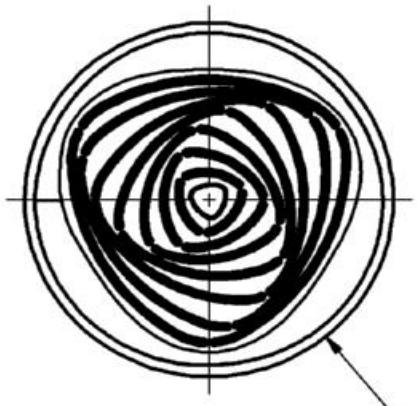


65281 SHOWN



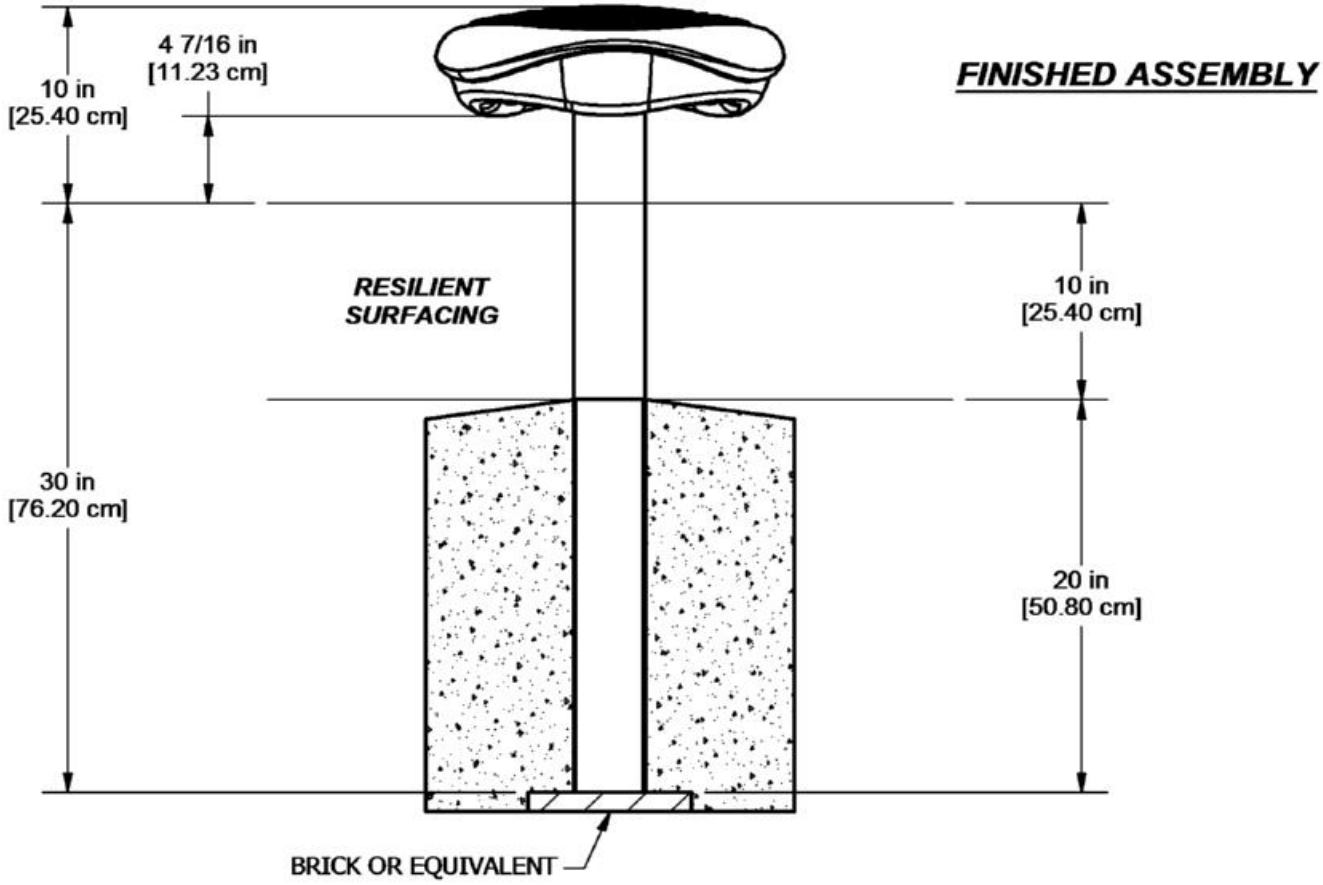
65282 SHOWN

65280 BUTTON STEP 10"



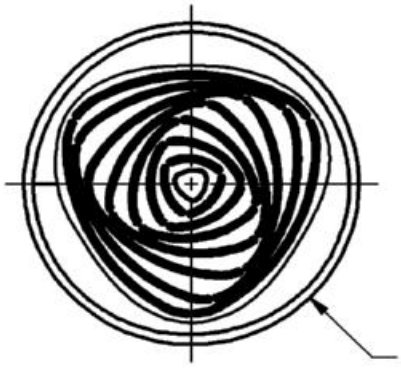
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



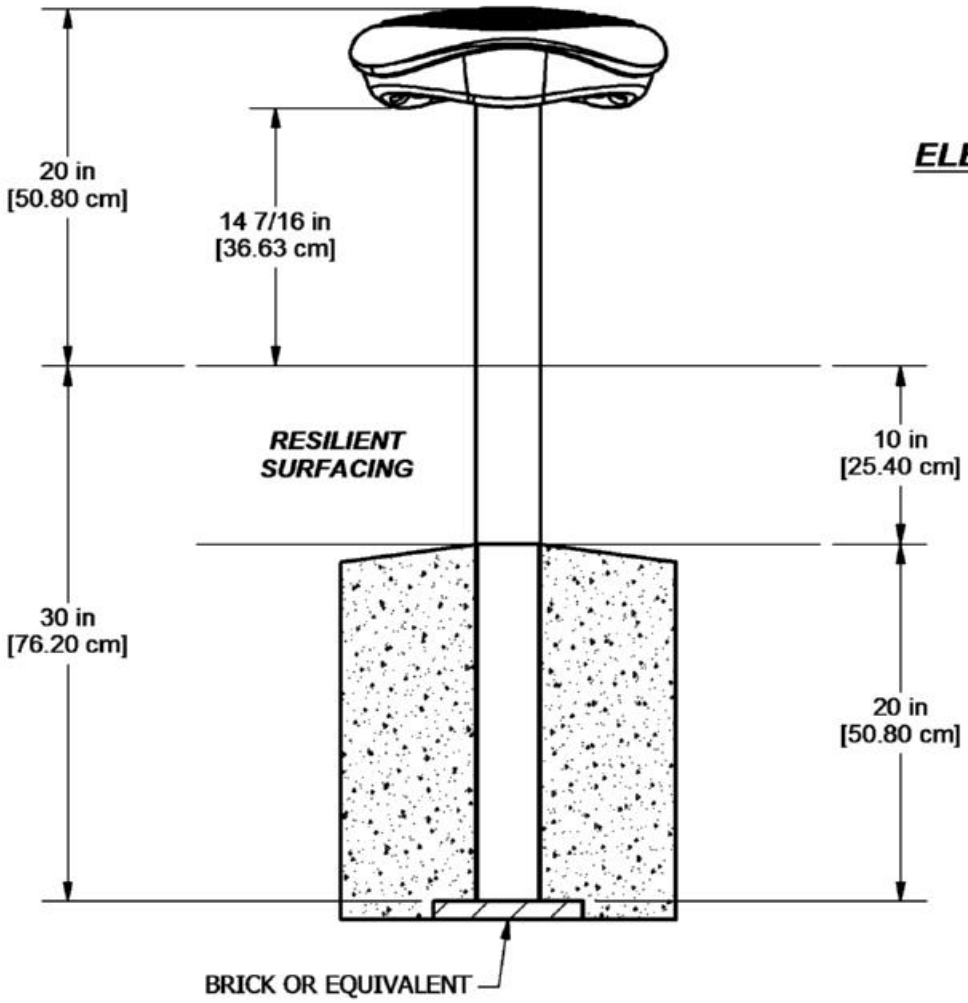
FINISHED ASSEMBLY

65281 BUTTON STEP 20"



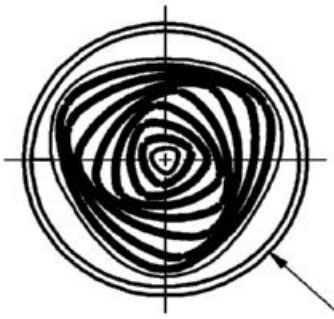
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



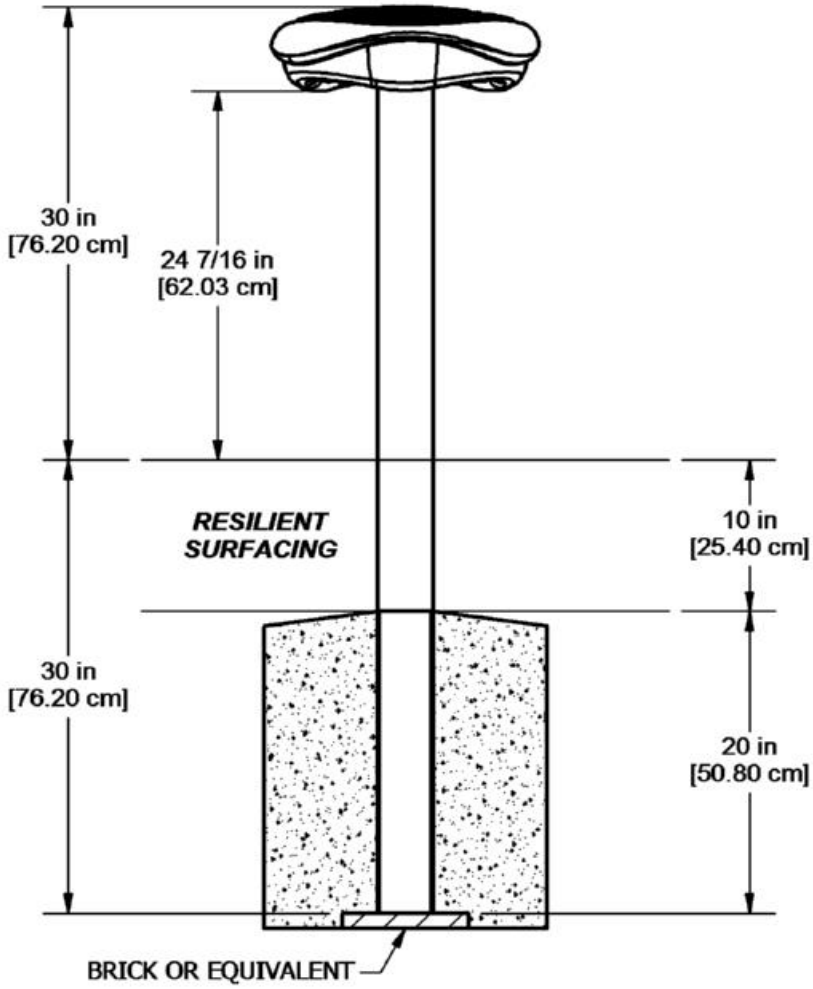
ELEVATION VIEW

65282 BUTTON STEP 30"



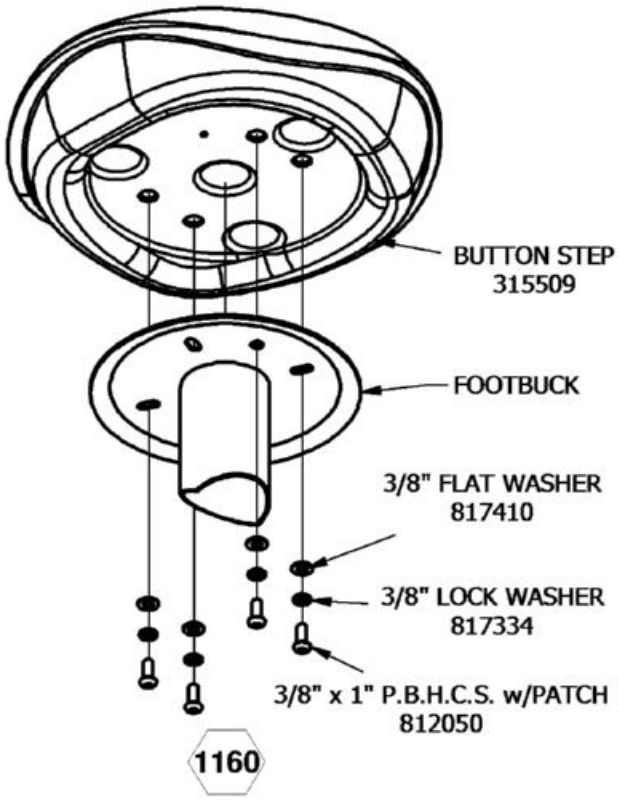
PLAN VIEW

CONCRETE REQUIRED
0.109 CUBIC YARDS
0.083 [CUBIC METERS]



ELEVATION VIEW

65280 BUTTON STEP 10"; 65281 BUTTON STEP 20"; 65282 BUTTON STEP 30"



65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12

Parts List				
DESCRIPTION	65288	65290	65291	PART NUMBER
HPL WELCOME SIGN 5 - 12	1	0	0	316380
HPL WELCOME SIGN 2 - 5	0	1	0	316628
HPL WELCOME SIGN 2 - 12	0	0	1	316629
WELCOME SIGN WELDMENT	1	1	1	316382
HARDWARE COMPLETE	1	1	1	316385
1/4" x 1/2" B.H.C.S. w/PATCH	3	3	3	812011
1/4" LOCK WASHER	3	3	3	817327
1/4" FLAT WASHER (5/8" O.D.)	3	3	3	817408
1/2" ANCHOR ROD	1	1	1	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

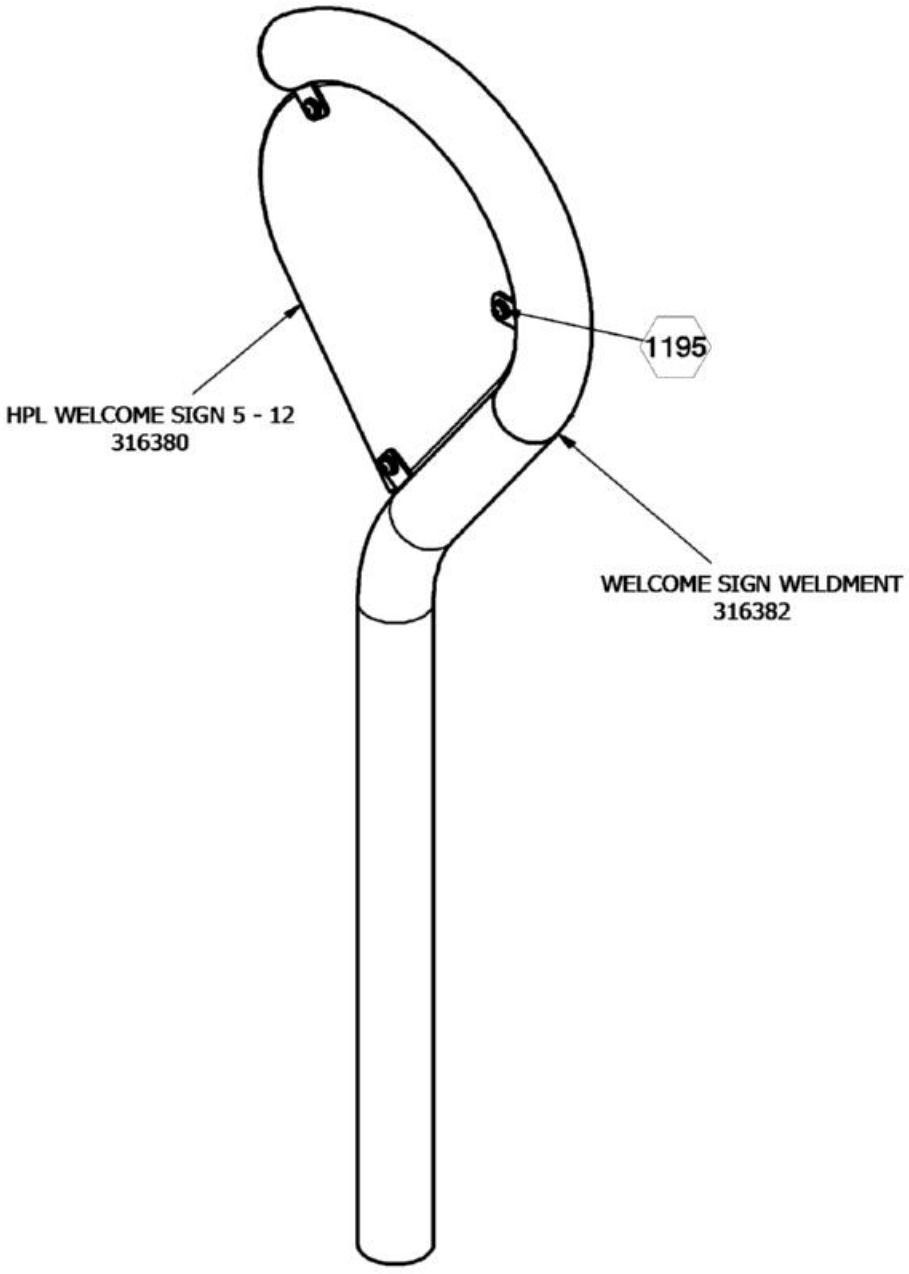
INSTALLATION INSTRUCTIONS:

1. Determine location of Welcome Sign and dig footing hole. Refer to order Top View and Elevation View.
2. Attach the H.P.L. Welcome Sign to the Welcome Sign Weldment. See Detail 1195.
3. Place Welcome Sign Weldment into footing hole.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After the entire unit is assembled, pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure for at least 48 hours before use. Note: Temporary bracing may be required until concrete cures.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



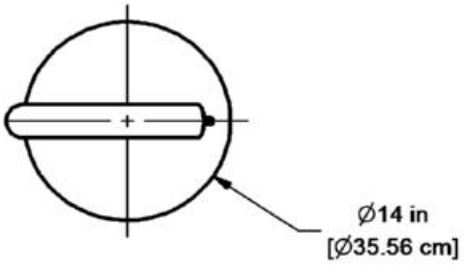
⬡ = INSTALLATION DETAIL

Issued/Revised: 6/1/2023

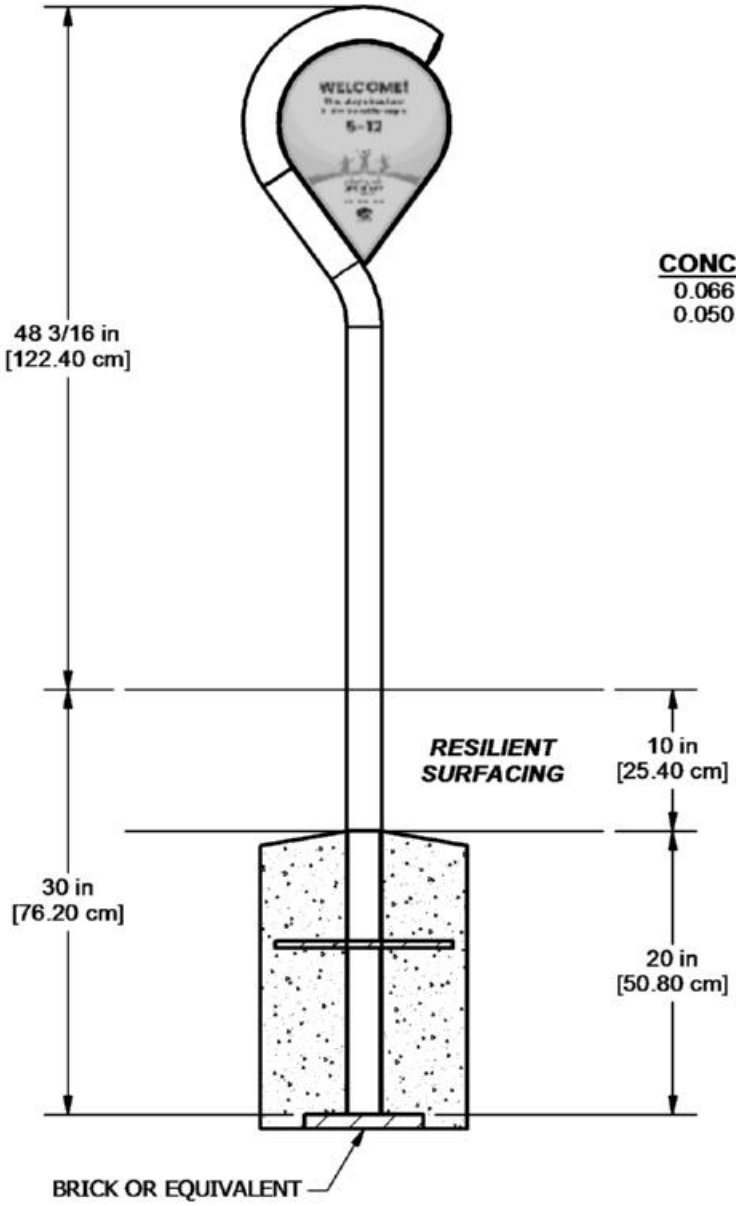
FINISHED ASSEMBLY

65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



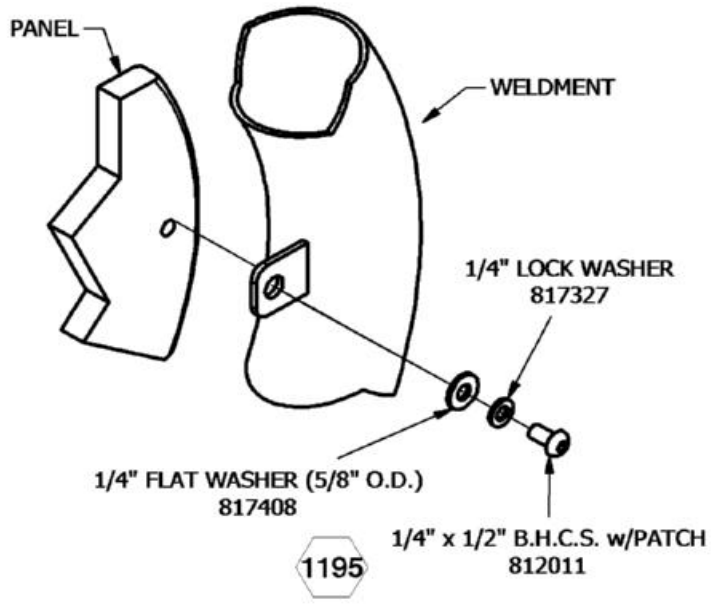
PLAN VIEW
65288 SHOWN



CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

ELEVATION VIEW
65288 SHOWN

65288 WELCOME SIGN 5 - 12; 65290 WELCOME SIGN 2 - 5; 65291 WELCOME SIGN 2 - 12



MODEL NO. 67534 2-SEAT BOUNCE AROUND

PARTS LIST

REF NO.	DESCRIPTION	No. REQ'D	PART NUMBER
1	Cover Assembly	1	105767
2	Arm Assembly	2	176515
3	Spring	1	176517**
4	Base assembly	1	162730
5	Arm Bracket	2	128194
	Saddle Seat w/Hardware	2	300677
	Hardware Complete	1	176516
	3/4" Anchor Bolt	4	800001*
	3/8" x 1" Hex Head Bolt	29	801048*
	3/8" x 1 1/2" Carriage Bolt	2	800255*
	3/8" x 1 1/2" Hex head Bolt	6	801005*
	3/8" Lockwasher	37	817334*
	3/4" Lockwasher	4	817354*
	3/8" Hex Nut	37	804053*
	3/4" Hex Nut	8	804058*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

GENERAL: Bounce Around shall be supported on three rubber springs. Springs shall be attached to Arm and Base Assembly with 3/8" x 1" hex head bolts.
ARM ASSEMBLY: Support arms shall be fabricated of 2-7/8" O.D. galvanized pipe. Animal Mount plates shall be fabricated of 1/4" x 4" H.R. steel. Foot rest shall be fabricated of 1/2" diameter H.R. steel rod. Cover assembly shall be fabricated of 12 gauge steel, 21" diameter with 3/4" O.D. rolled edge, and 1/4" x 1-1/2" H.R. steel mounting brackets. Spinning will bolt to arm assembly.
ARM BRACKET: Shall be fabricated of 3/8" thick H.R. steel.
BASE ASSEMBLY: Shall be fabricated of 3/8" x 18" x 18" H.R. steel and precision drilled to receive 3/4" anchor bolts. Spring support shall be fabricated of 1/4" x 13-7/16" H.R. steel.
SPRINGS: Shall be durable rubber fused to 3/16" x 6-1/2" x 10" steel plates.
SADDLE SEATS: Cast aluminum 1/4" thick wall molded in hand holds. There shall be four screw bosses cast to the seat which are integral parts of the seat. The bosses shall be drilled to receive four 3/8" diameter bolts.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

Weight: 216 lb. / 98.2 kg.

MODEL NO. 67534 2-SEAT BOUNCE AROUND

INSTALLATION INSTRUCTIONS:

NOTE: THIS SPECIFICATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.
NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.
NOTE: Read installation instructions thoroughly before starting assembly. Bracing material may be required during assembly.
NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

1. Dig hole 2'-0" [60.96 cm] square x 2'-0" [60.96 cm] deep and fill with concrete to within 1'-0" [30.48 cm] of finished surface. Approximately .30 cubic [.23 cubic meters] of concrete required. Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

2. Attach anchor bolts to base plate on base assembly and set in hole when concrete has set long enough to support base assembly. Level and wait a minimum of 48 hours before proceeding.

3. Attach springs to base with 3/8" x 1" hex head bolts, nuts and lockwashers.

4. Attach spring brackets to springs using 3/8" x 1" hex head bolts, nuts and lockwashers (see illustration).

5. Secure spring brackets to each other (see spring bracket attaching illustration) with 3/8" x 1 1/2" carriage bolts. Do not tighten carriage bolts.

6. Slip cover assembly over spring brackets with ears on cover locking with carriage bolts in spring brackets. Tighten carriage bolts, locking cover in plate.

7. **FOR SADDLE SEATS**: Fasten seat to arm assembly using hex head bolts, lockwashers, and plastic washers. **VERY IMPORTANT:** Place the 4 special plastic washers between bottom of seat and mounting plate of arm assembly.
NOTE: After installation, the seat area height should be between 1'-2" [35.56 cm] and 2'-4" [71.12 cm] above the protective surfacing.
NOTE: We suggest you retighten all bolts after the unit has been used three or four days.
NOTE: Loctite (supplied by others) should be used on all threaded hardware.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check 'S' Hooks at both ends and all connection points for wear. Check all moving parts such as bushings, hangers and chain for wear. Check opening on 'S' Hooks for entanglement as specified by ASTM F 1487-98 section 6.3. Check Tot and Strap Seats for cracks, breakage or wear, and verify proper height. Check Chains for integrity and corrosion. Check connections for excessive wear and replace immediately if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

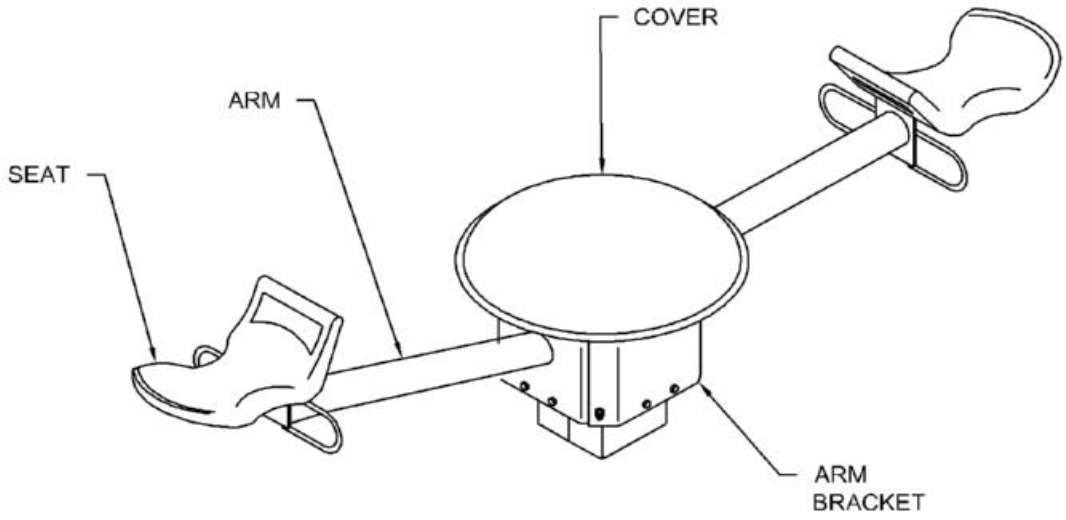
MODEL NO. 67534 2-SEAT BOUNCE AROUND

IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS

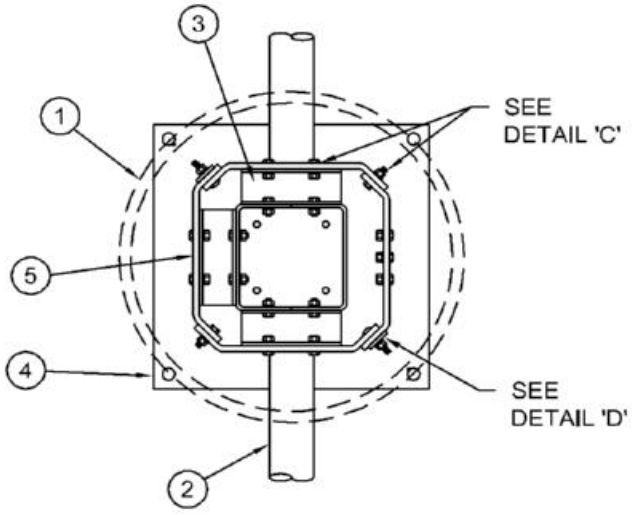
- ☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ All protruding nuts and bolts should be covered; sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.
- ☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.
- ☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.
- ☐ CUSTOMERS ARE PROVIDED WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.
- ☐ Never add components not intended for use with this product.
- ☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.
- ☐ Proper maintenance of equipment requires regular tightening of all bolts, nuts, and set screws.

MODEL NO. 67534 2-SEAT BOUNCE AROUND

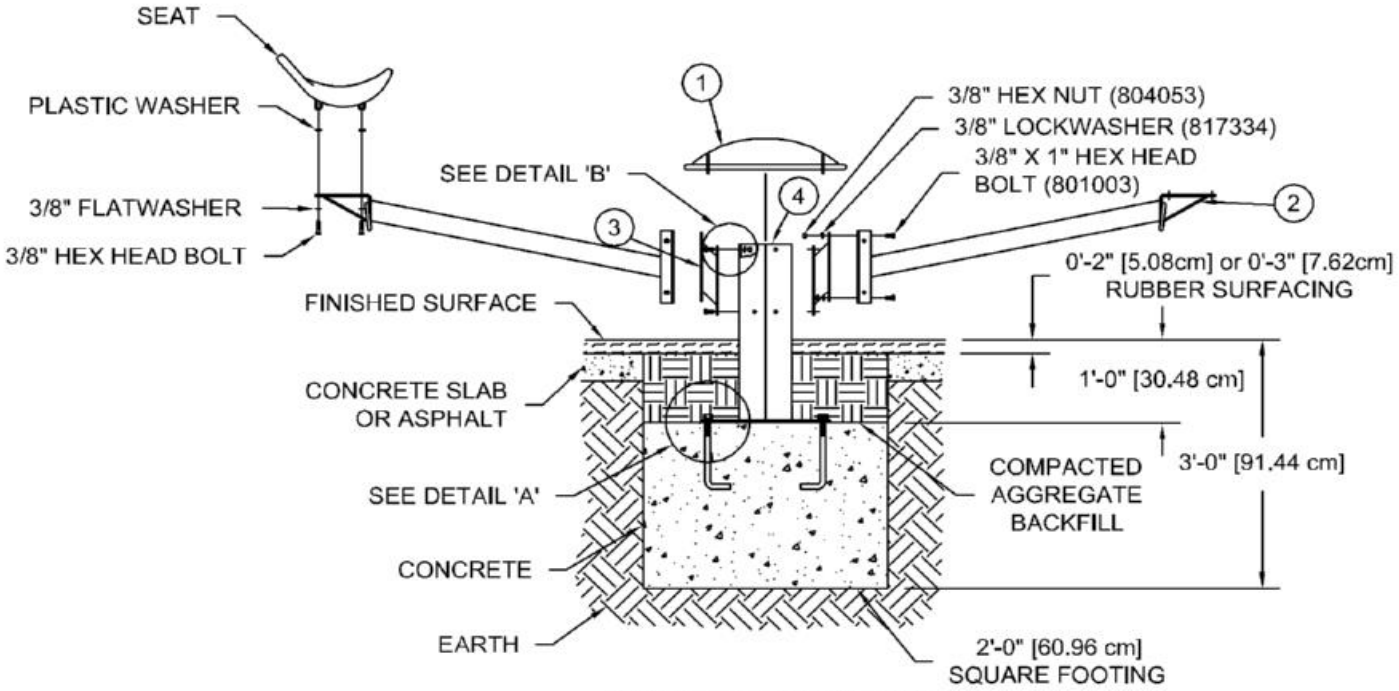
FINISHED ASSEMBLY



PLAN VIEW



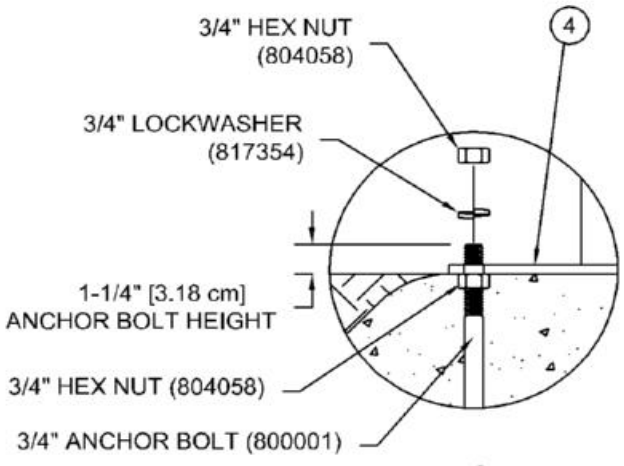
MODEL NO. 67534 2-SEAT BOUNCE AROUND



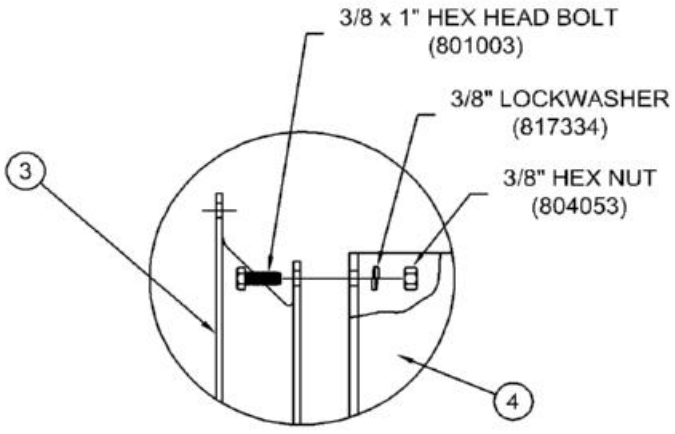
ASSEMBLY DRAWING

RUBBER SURFACING

NOTES
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN-1176-1.
- SUGGESTED MINIMUM CONCRETE RATING: 3000PSI
- CONCRETE REQUIRED: .30 CUBIC YARDS [.23 CUBIC METERS]

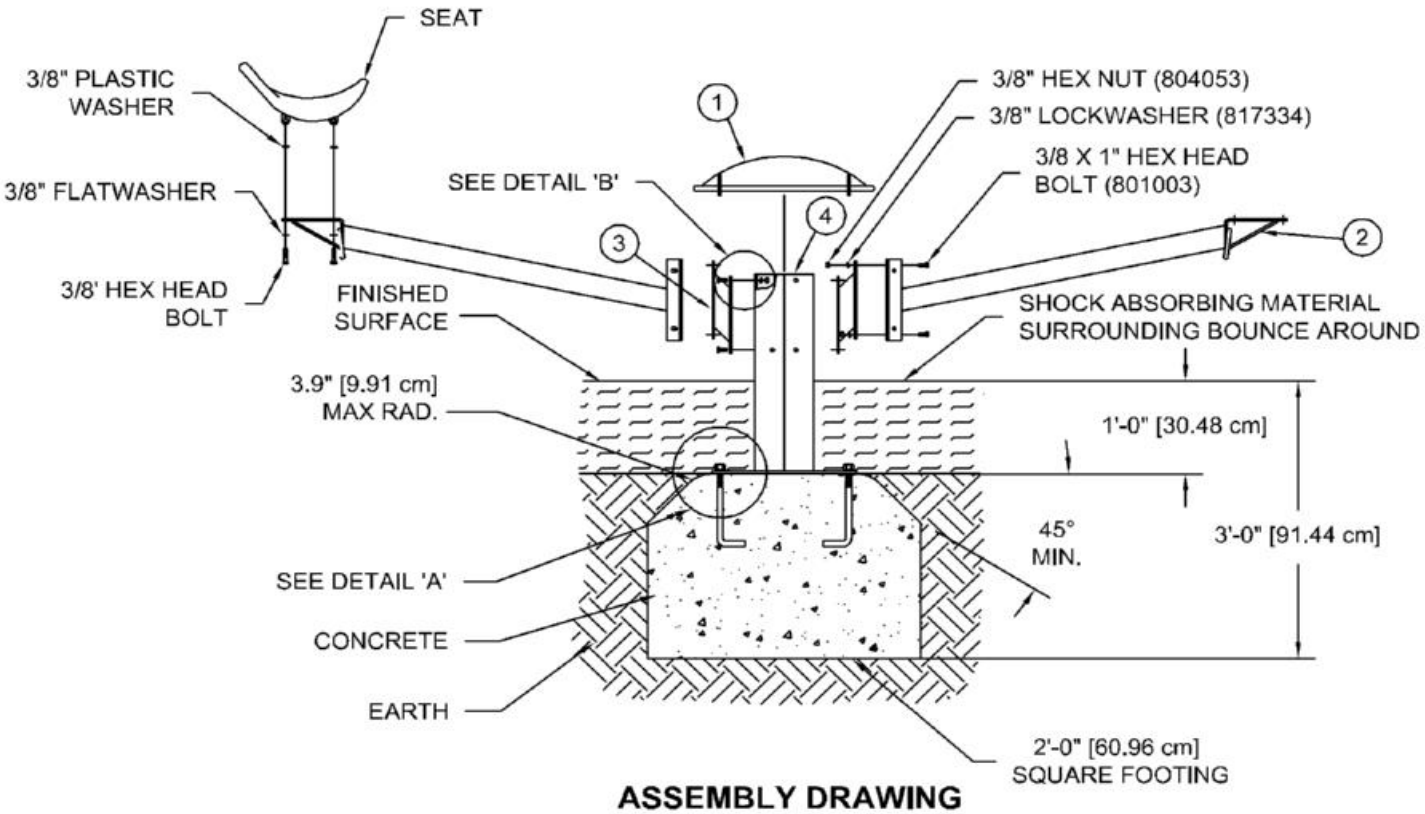


DETAIL 'A'



DETAIL 'B'

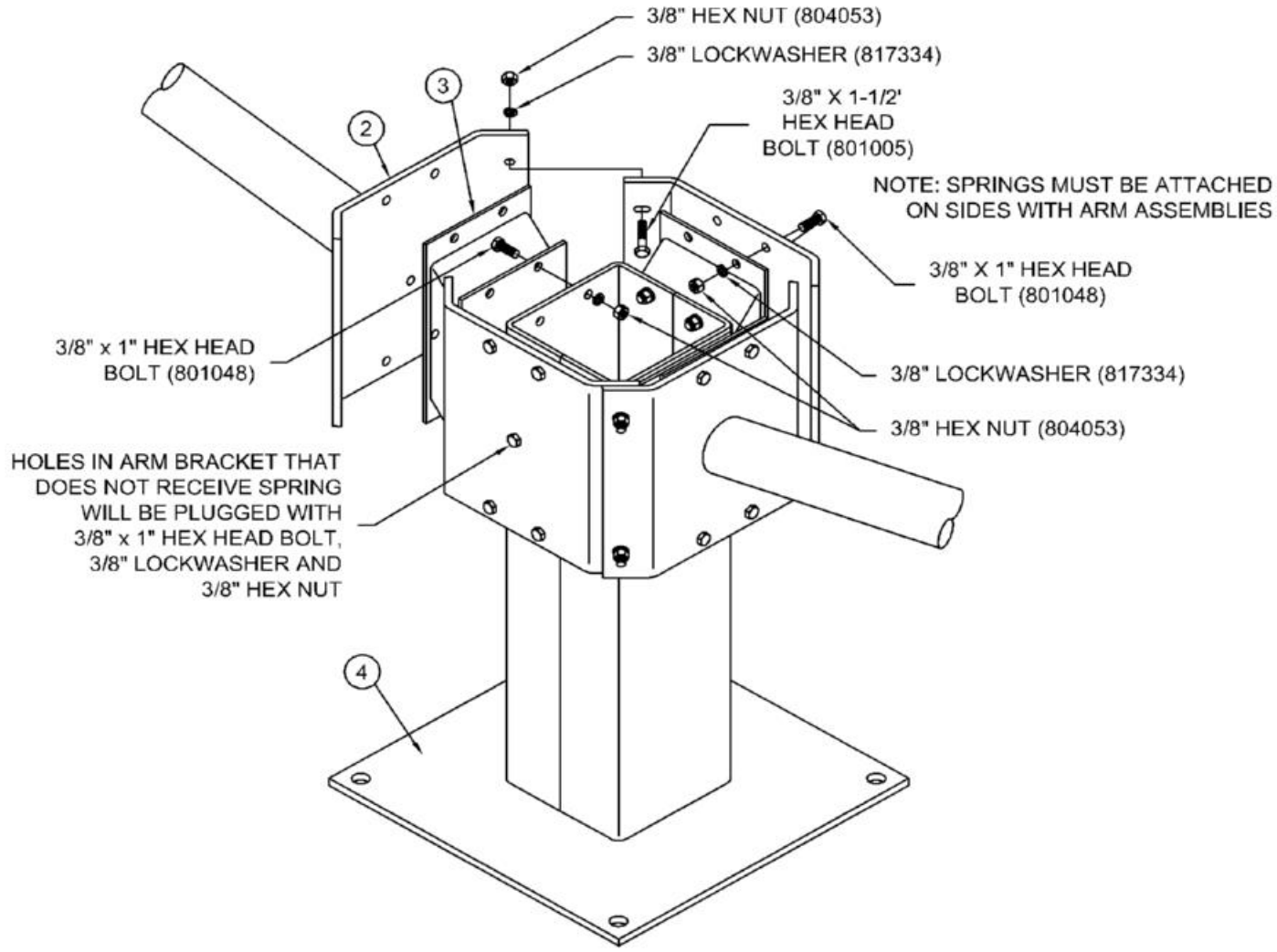
MODEL NO. 67534 2-SEAT BOUNCE AROUND



ASSEMBLY DRAWING
LOOSE-FILL SURFACING

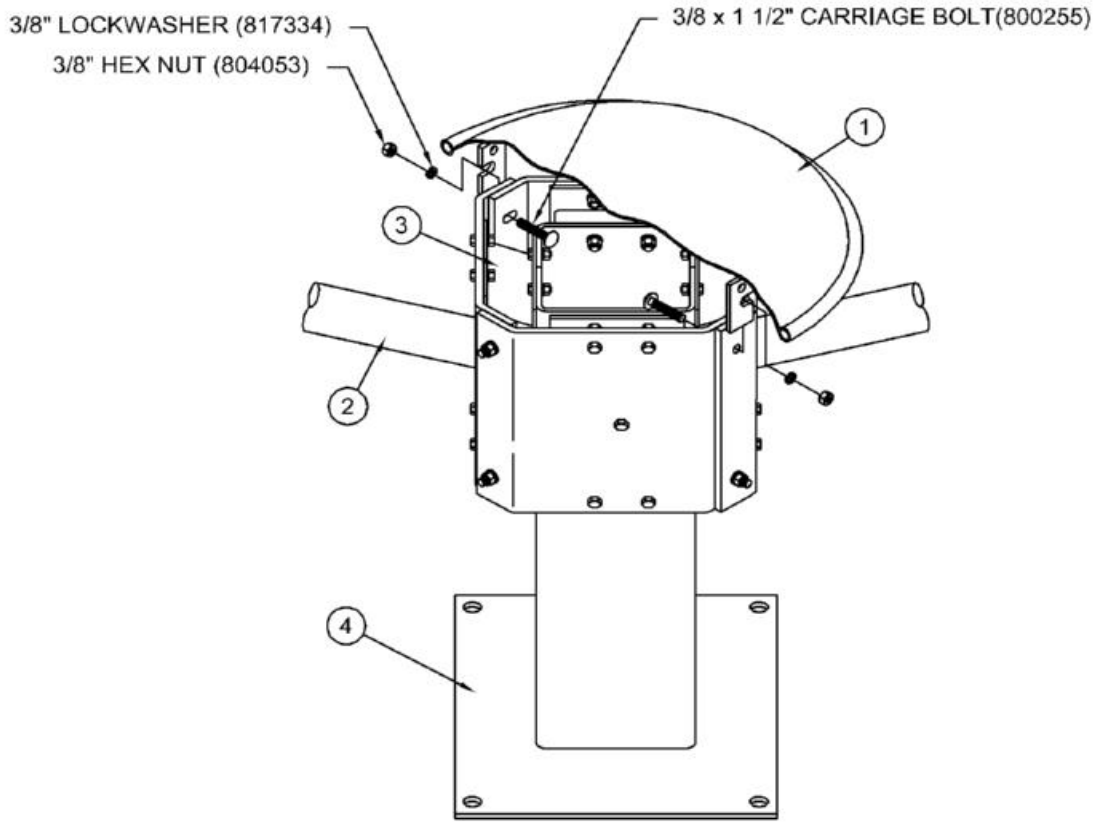
SHOCK ABSORBING PROPERTIES OFSURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

MODEL NO. 67534 2-SEAT BOUNCE AROUND



DETAIL 'C'

MODEL NO. 67534 2-SEAT BOUNCE AROUND



DETAIL 'D'

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

PARTS LIST

DESCRIPTION	NO. REQ'D 67558	NO. REQ'D 67620	PART NUMBER
3-1/2" O.D. Toprail	1	1	168622
Arch End Upright Ass'y	2	0	152803
Multi-Bay Arch Upright Ass'y	0	1	152805
Hardware Complete	1	1	303587
1/2" x 4" Hex Bolt	2	2	801215*
1/2" Lockwasher	2	2	817342*
1/2" Hex Nut	2	2	804055*
1/2" Flatwasher	2	2	817412*

Unless Otherwise Specified, All Units of Measure are Each
****Included in Hardware***

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

Primary hardware is stainless steel.

INSTALLATION INSTRUCTIONS:

1. Refer to your site plan; select the area where the Arch Swing will be installed. Note that although the actual area of the Toprail are 3'-4" X 12'-9" a minimum of 16' is required in front of and behind swing, and 6' is required to each side, for a total of 32' X 24'-5". This area should be clear of all obstacles and contain an appropriate resilient surface material. Please refer to your *Safety Guidelines* for more information.

2. Dig footings spaced as shown on the diagram. Footing diameters should be 24". Calculate depth depending on the amount of resilient surfacing which will be installed. A depth of 10" resilient surfacing is shown on the elevation view. If you determine that less than 10" of surfacing is required, make up the difference with earth before applying surfacing.

3. Set the Post Arches in to their footing and block in position with sleeves facing each other.

4. Attach Swing Beams to the post arches as shown in detail 'A' and temporarily secure with a 1/2" x 4" Hex Head Bolts each sleeve. Adjust post arches heights so that the top beam is 8'-1 3/4" above the finished ground level.

5. Square and level entire Swing Beam assembly. When satisfactory, fully tighten all bolts and follow support post instructions for concrete. DO NOT ATTACH SEAT SWING ASSEMBLIES UNTIL RESILIENT SURFACING HAS BEEN INSTALLED.

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

6. ONLY AFTER ALL RESILIENT SURFACE MATERIAL HAS BEEN INSTALLED, attach the Swing Seat Packages to the top beams as instructed on Installation Sheet for Swing Seats. FULLY CRIMP SHUT ALL 'S' HOOKS as per specification by ASTM F 1487 for Entanglement.

7. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

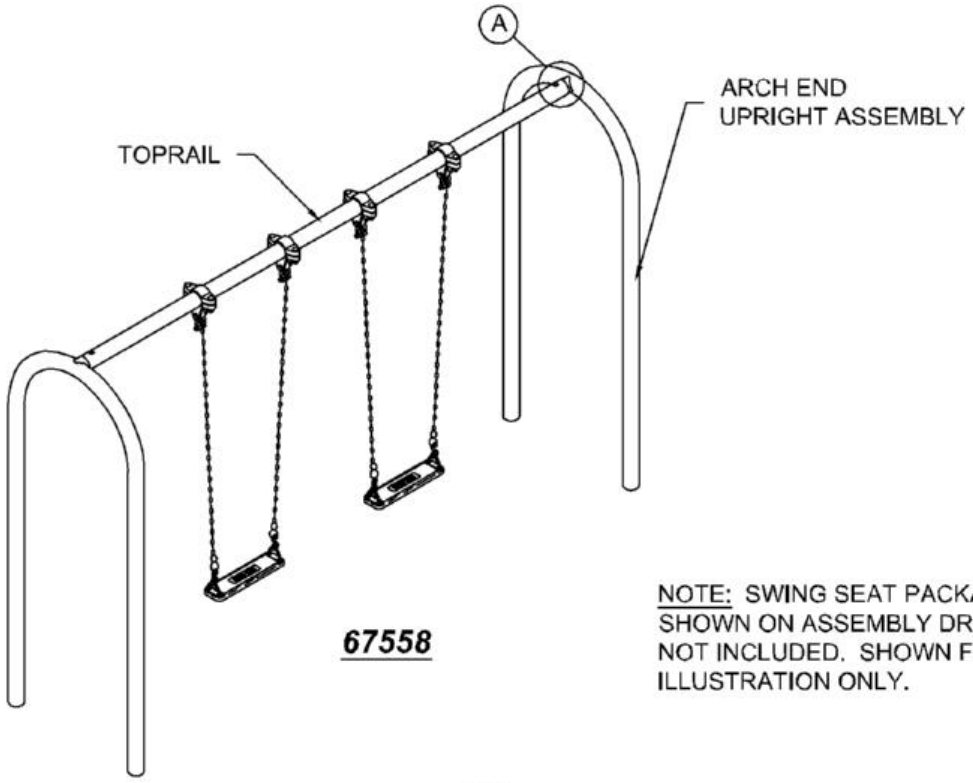
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check 'S' Hooks at both ends and all connection points for wear. Check all moving parts such as bushings, hangers and chain for wear. Check opening on 'S' Hooks for entanglement as specified by ASTM F-1487 Section 6.3. Check Strap seats for cracks, breakage or wear, and verify proper height. Check Chains for integrity and corrosion. Check connections for excessive wear and replace immediately if necessary. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Model No: _____

Desc: _____

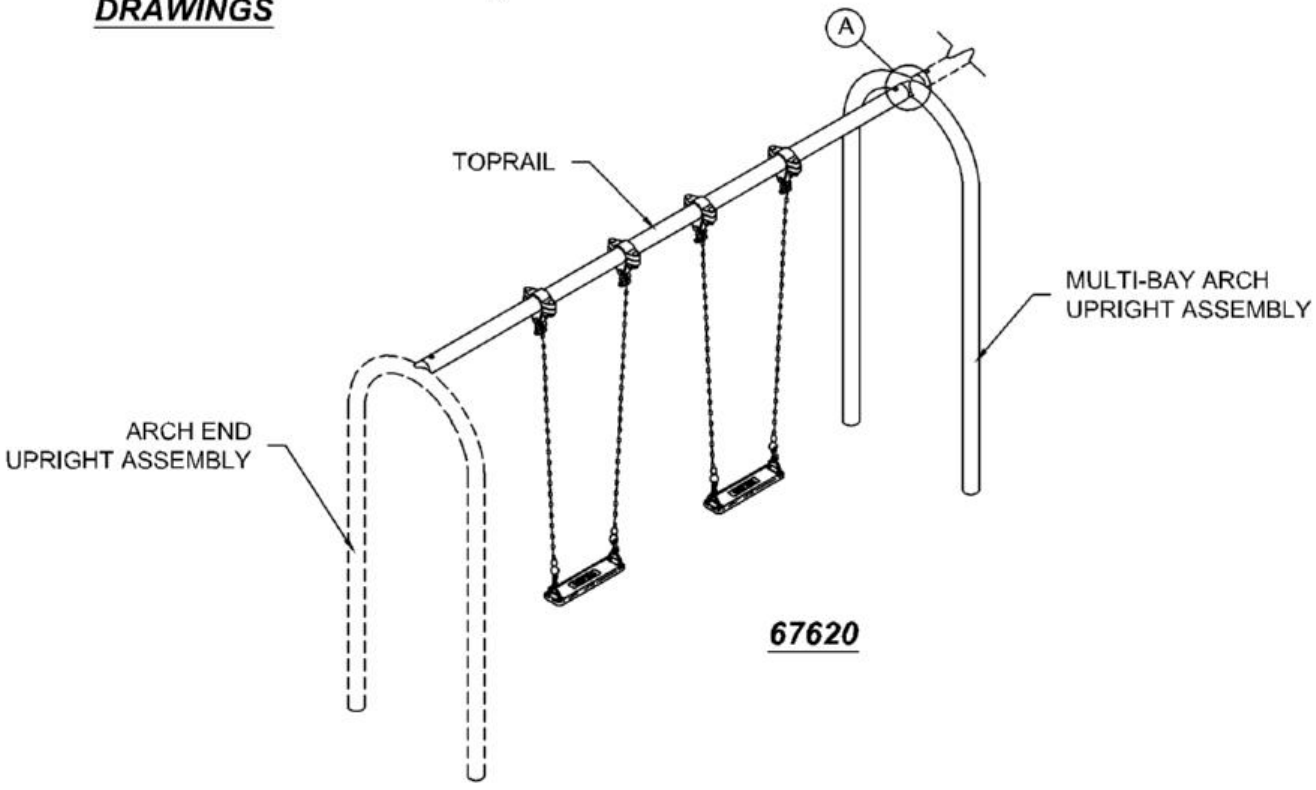
67558 3 1/2" O.D. ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ARCH SWING ADD-A-BAY

ASSEMBLY DRAWINGS



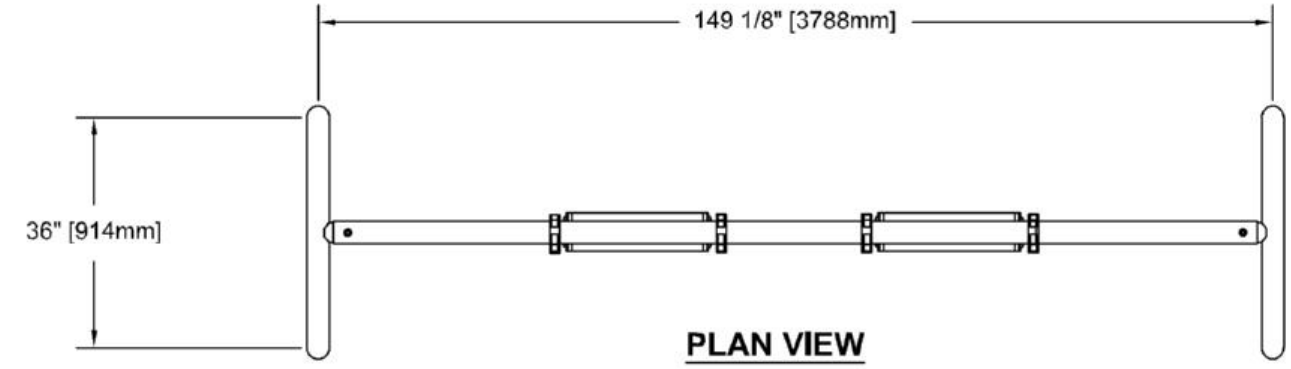
67558

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

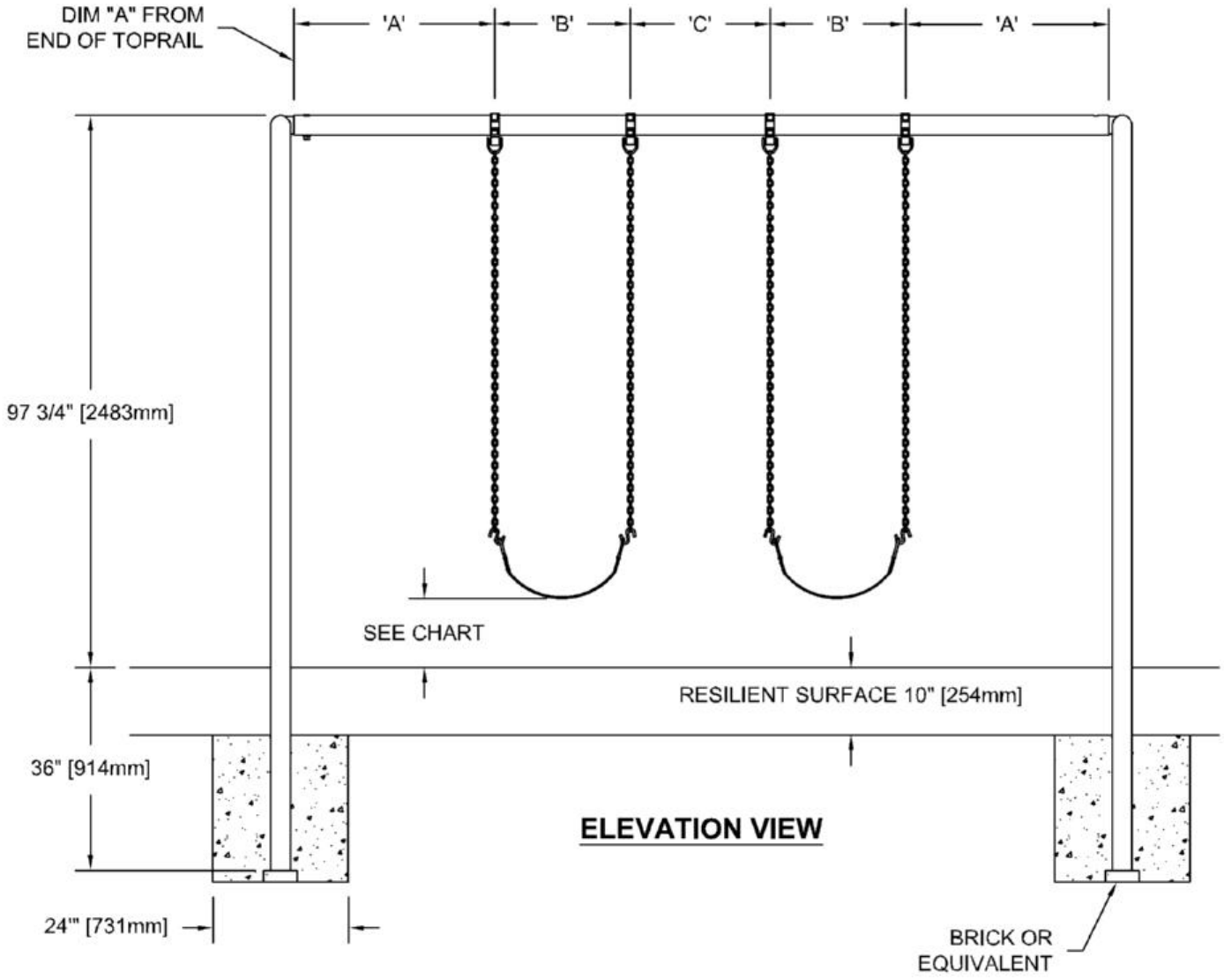


67620

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



PLAN VIEW



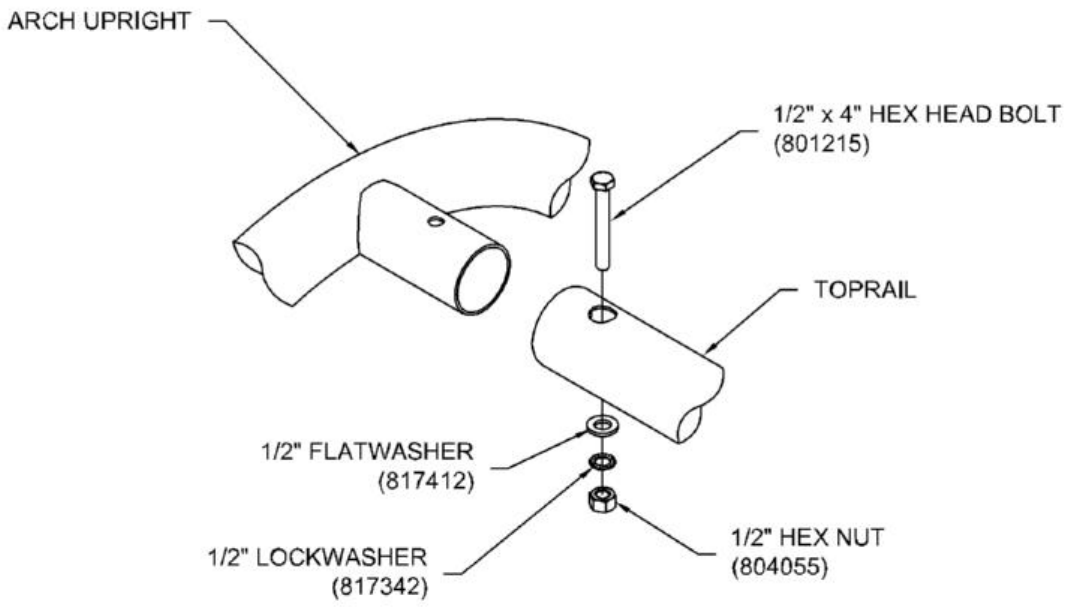
ELEVATION VIEW

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY

TOPRAIL DIMENSIONS	
DIM. A	32" [813mm]
DIM. B	26" [660mm]
DIM. C	28" [711mm]

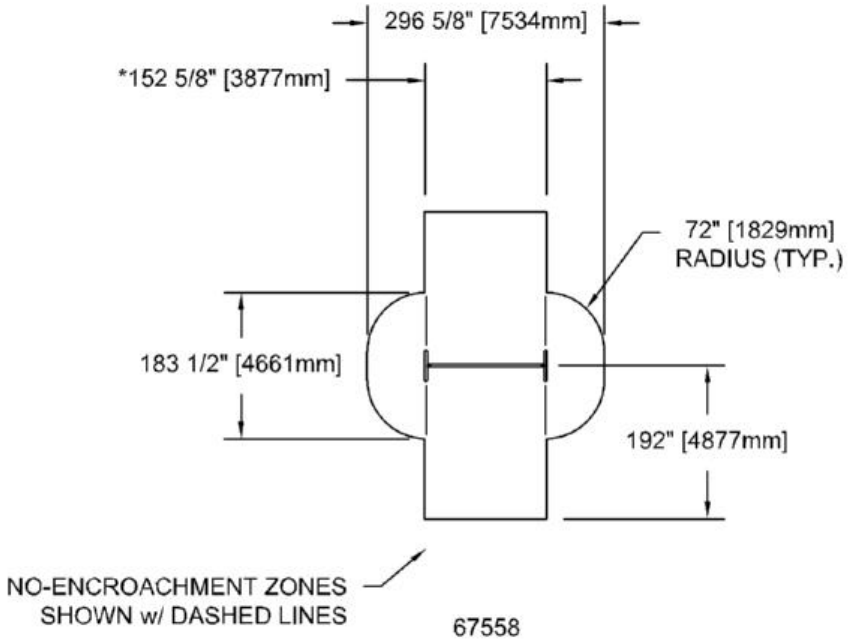
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	**MIN.**	**MAX.**
CANADIAN	STRAP - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	STRAP - 12" [305mm] ENCLOSED TOT SEAT- 24" [610mm]	N/A

MEASURED WHEN OCCUPIED BY MAXIMUM USERS

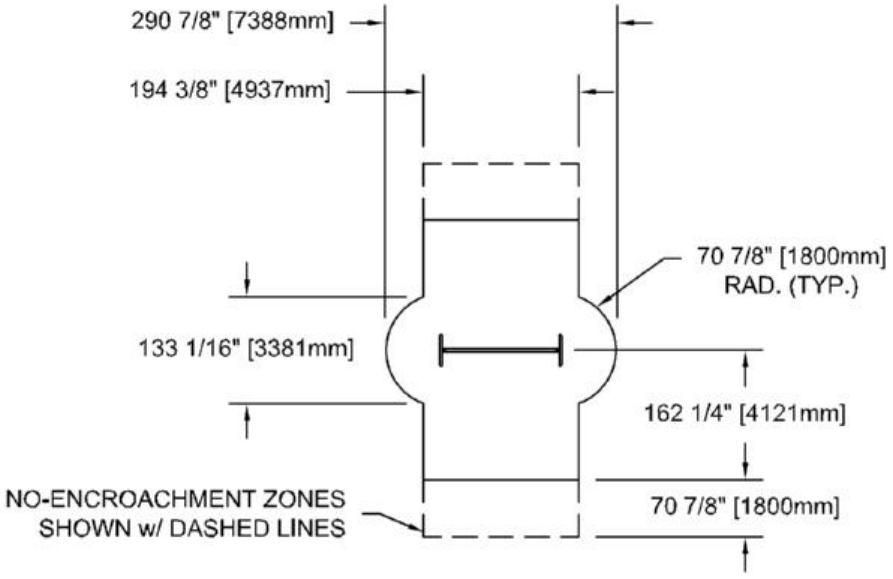


DETAIL 'A': TOPRAIL TO ARCH CONNECTION

67558 3 1/2" O.D. ADA ARCH SWING - 2 SEATS
67620 3 1/2" O.D. ADA ARCH SWING ADD-A-BAY



67558



67558 (CSA ONLY)

NOTE:

1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA *NO ENCROACHMENT* ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND *NO ENCROACHMENT* ZONE DIMENSIONS BY 149 1/8" [3788mm].

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made -for- Me Swing Seat w/S.S. Chain

PARTS LIST

DESCRIPTION	Number Required				PART NUMBER
	67915	S67915	67916	S67916	
Made-for-Me Swing Seat Assembly (5 - 12)	1	1	1	1	178486
Seat Brace (Beige)	1	1	1	1	214733**
Seat Latch (Beige)	1	1	1	1	178484**
Hardware Complete	1	0	0	0	178860
Hardware Complete	0	1	0	0	178861
Hardware Complete	0	0	1	0	178858
Hardware Complete	0	0	0	1	178859
Galvanized Chain, 122 3/4" Lg.	2	0	0	0	178807*
Stainless Steel Chain, 122 3/4" Lg.	0	2	0	0	178808*
Galvanized Chain, 170" Lg.	0	0	2	0	178809*
Stainless Steel Chain, 170" Lg.	0	0	0	2	178810*
3/8" x 1 1/4" P.B.H.C.S. w/ Patch	2	2	2	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/ Patch	2	2	2	2	812054*
3/8" Lockwasher	4	4	4	4	817334*
3/8" Flatwasher	2	2	2	2	817410*
3/8" Flatwasher (1-1/4" O.D.)	2	2	2	2	817424*
3/8" Barrel Nut	2	2	2	2	804804*
Swing Hanger	2	2	2	2	1462*
Spacer	2	2	2	2	179390*

Unless Otherwise Specified, All Units of Measure are Each
***Included in Hardware** ***Included in Seat Assembly**

Warning: Small parts and hardware items may present a potential choking hazard. Promptly remove all unused parts from play area. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on all threaded hardware.

SPECIFICATIONS:

All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

INSTALLATION INSTRUCTIONS:

1. Remove 3/8" x 3/4" Hex Head Bolts from seat and discard.

2. Attach appropriate chain to top of seat using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher and 3/8" Flatwasher (1 ¼" O.D.), and spacer. See Detail 297.

3. Connect chain to bottom of seat using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, 3/8" Flatwasher and 3/8" Barrel Nut. See Detail 296.

4. Connect assembled Swing Seat to swing hanger using 3/8" x 1" Shoulder Bolt. Refer to Detail 298.

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain

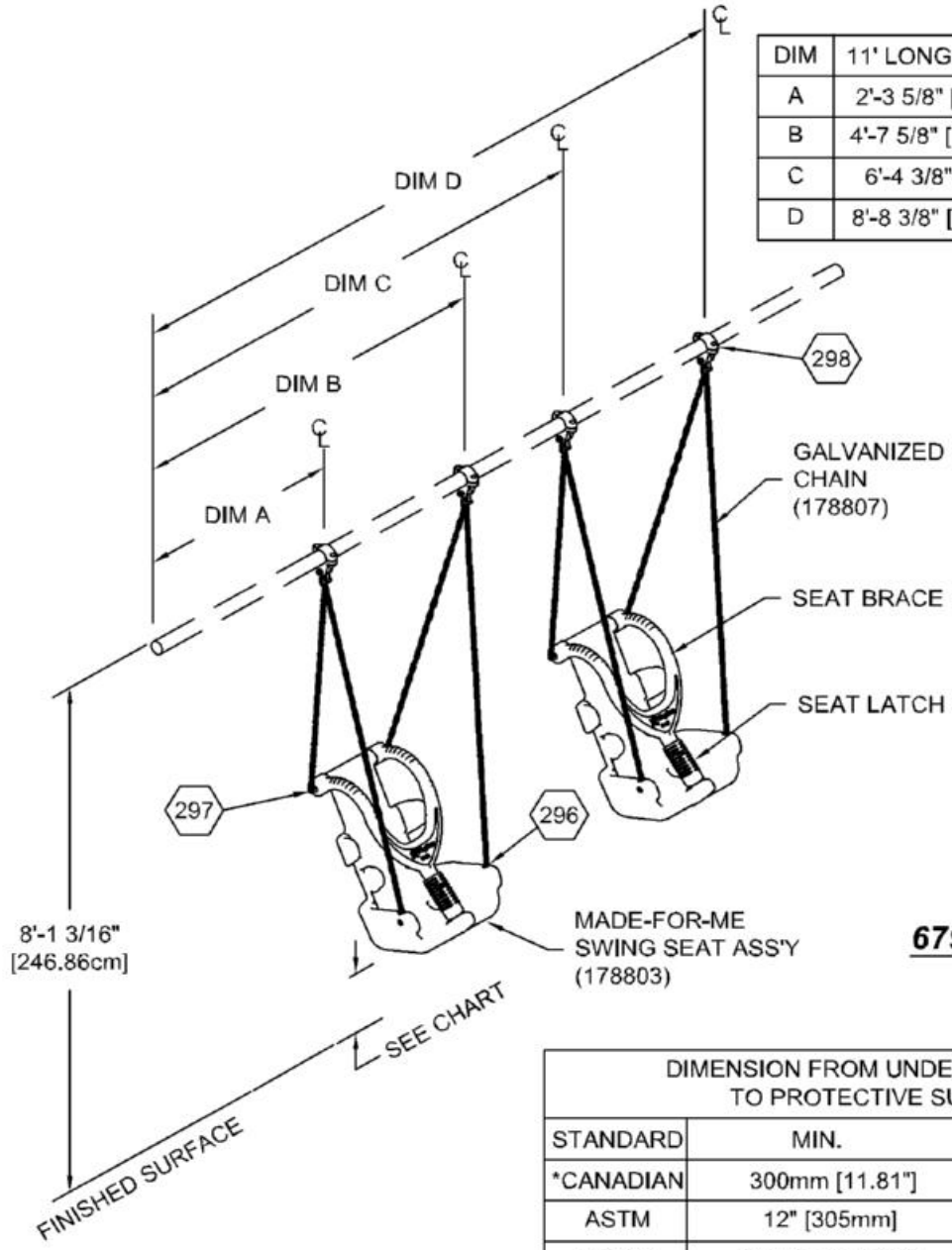
5. Attach Swing Seat Assembly to top rail using 3/8" x 2" Carriage Bolt and 3/8" Lock Nut. See Detail 298 . Refer to Finished Assembly drawing for swing seat spacing.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check 'S' Hooks at both ends and all connection points for wear. Check all moving part such as hangers for wear. Check 'S' Hooks as specified by ASTM F 1487 SECTION 6.3 for Entanglement. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain

DIM	11' LONG TOP RAIL	12' LONG TOP RAIL
A	2'-3 5/8" [70.17cm]	2'-9 5/8" [85.41cm]
B	4'-7 5/8" [141.29cm]	5'-1 5/8" [156.53cm]
C	6'-4 3/8" [194cm]	6'-10 3/8" [209.24cm]
D	8'-8 3/8" [265.12cm]	9'-2 3/8" [28.36cm]



67915 VERSION
(SHOWN)

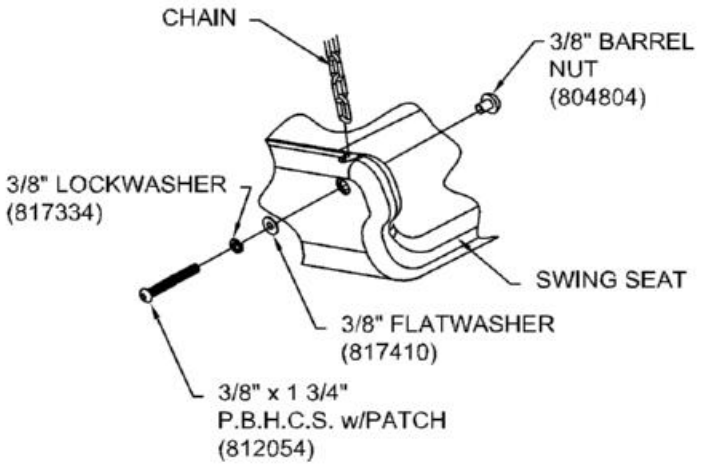
DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
*CANADIAN	300mm [11.81"]	N/A
ASTM	12" [305mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	12" [305mm]	N/A

* UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

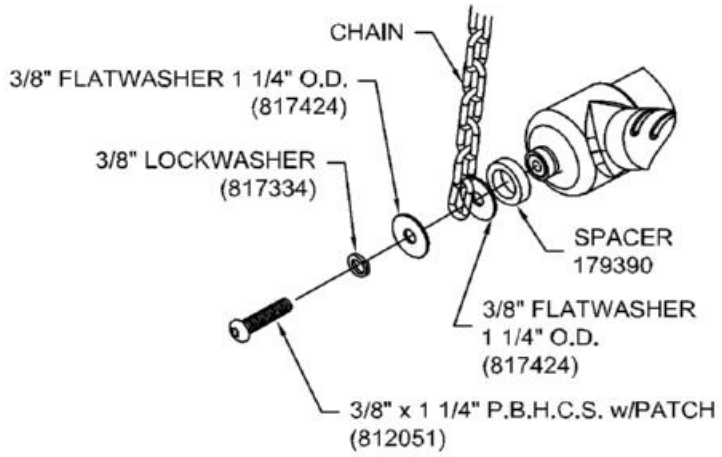
⬡ = ***INSTALLATION DETAIL***

FINISHED ASSEMBLY

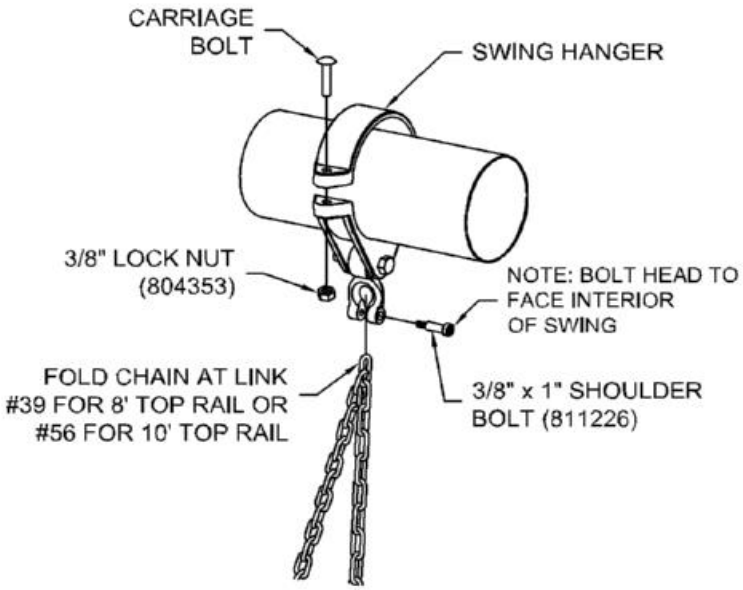
MODEL NO. 67915 Made-for-Me Swing Seat
MODEL NO. S67915 Made-for-Me Swing Seat w/S.S. Chain
MODEL NO. 67916 Made-for-Me Swing Seat
MODEL NO. S67916 Made-for-Me Swing Seat w/S.S. Chain



296



297



298

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

Parts List				
ITEM	DESCRIPTION	68034	68035	PART NUMBER
1	3 1/2" O.D. TOPRAIL	1	1	208806
2	ARCH END UPRIGHT ASS'Y	2	0	152803
3	MULTI-BAY ARCH UPRIGHT ASS'Y	0	1	152805
	HARDWARE COMPLETE	1	1	303587
	1/2" x 4" HEX HEAD BOLT	2	2	801215*
	1/2" FLAT WASHER	2	2	817412*
	1/2" LOCKWASHER	2	2	817342*
	1/2" HEX NUT	2	2	804055*

Unless Otherwise Specified, All Units of Measure are Each
** Included in Hardware*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER'S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Pour concrete only after final assembly is complete. Bracing material may be required during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.

NOTE: It is important to check the hole location in the upright and on the drawings while assembling this unit.

1. Dig holes according to the Ground Plan. See Detail 005. Place a brick or equivalent at the bottom of the hole to provide a solid foundation. Allow for this in hole depth. See Detail 005.

2. Insert toprail onto socket on the arch and secure. See Detail 020.

3. Set frame in holes, making sure that legs rest on foundation bricks. Check to ensure swing is level.

4. Fill holes with concrete per Detail 005. Plumb and brace assembly. Allow a minimum of 48 hours for concrete to harden before continuing.

NOTE: Loctite (supplied by others) should be used on all threaded hardware.

5. Place swing hangers on toprail using Assembly Drawing for spacing. Hang seats per Installation Sheet for swing seats.

6. After assembly is complete, place manufacturer's I.D. label in a visible location.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

STOP IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS STOP

☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protuding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ PLAY & PARK STRUCTURES® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of PLAY & PARK STRUCTURES® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

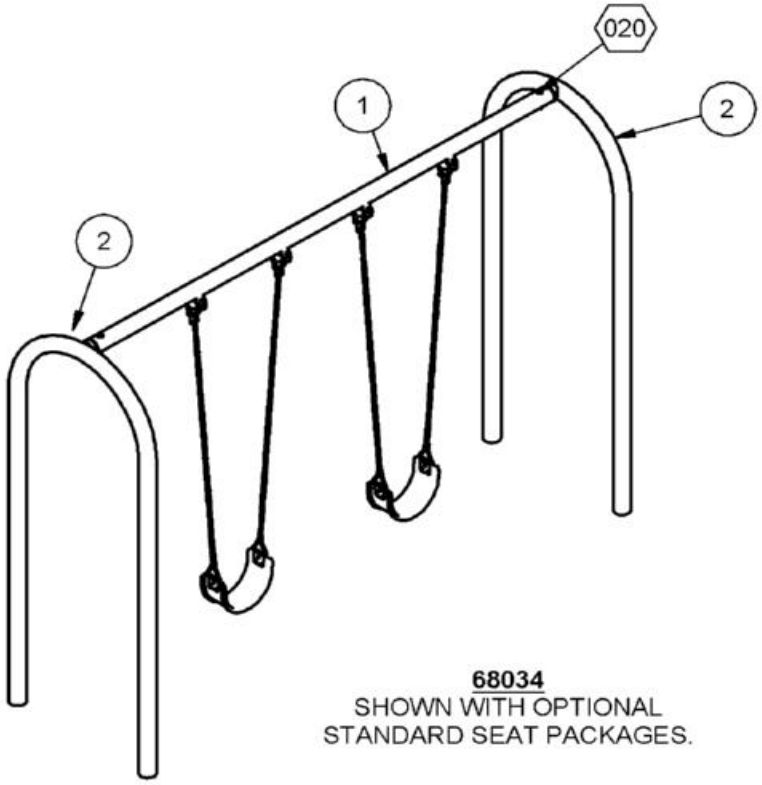
☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

☐ Never use PLAY & PARK STRUCTURES playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

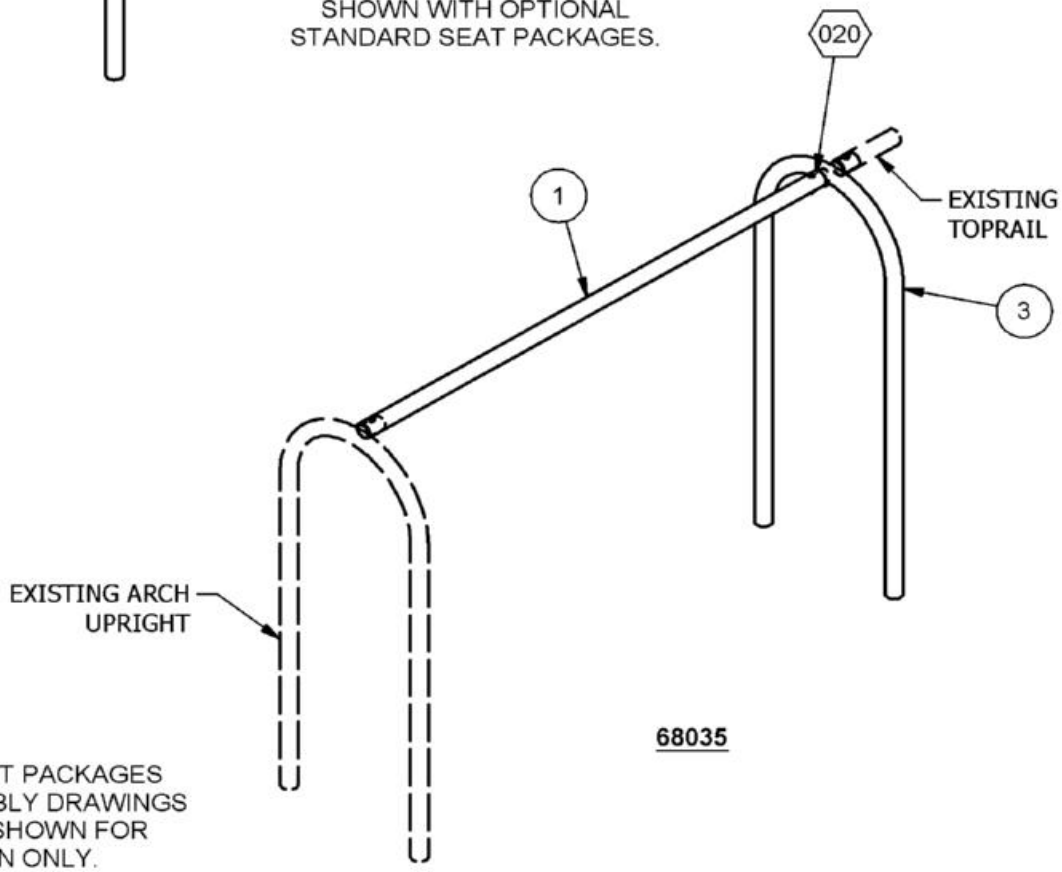
☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both fron and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



ASSEMBLY DRAWINGS

68034
SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGES.

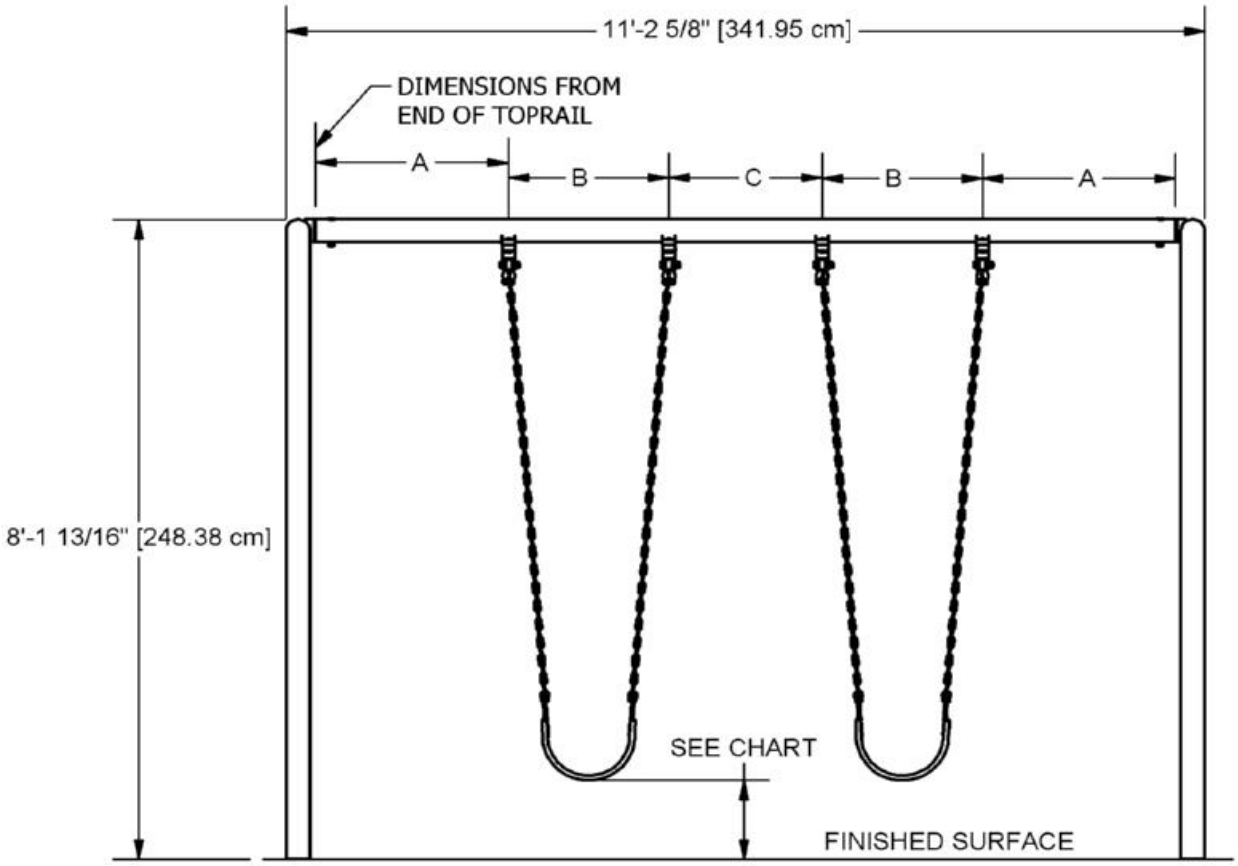


68035

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY

TOPRAIL DIMENSIONS	
DIM A	2'-4 1/4" [71.80 cm]
DIM B	1'-11 1/2" [59.69 cm]
DIM C	1'-10 7/16" [57.07 cm]

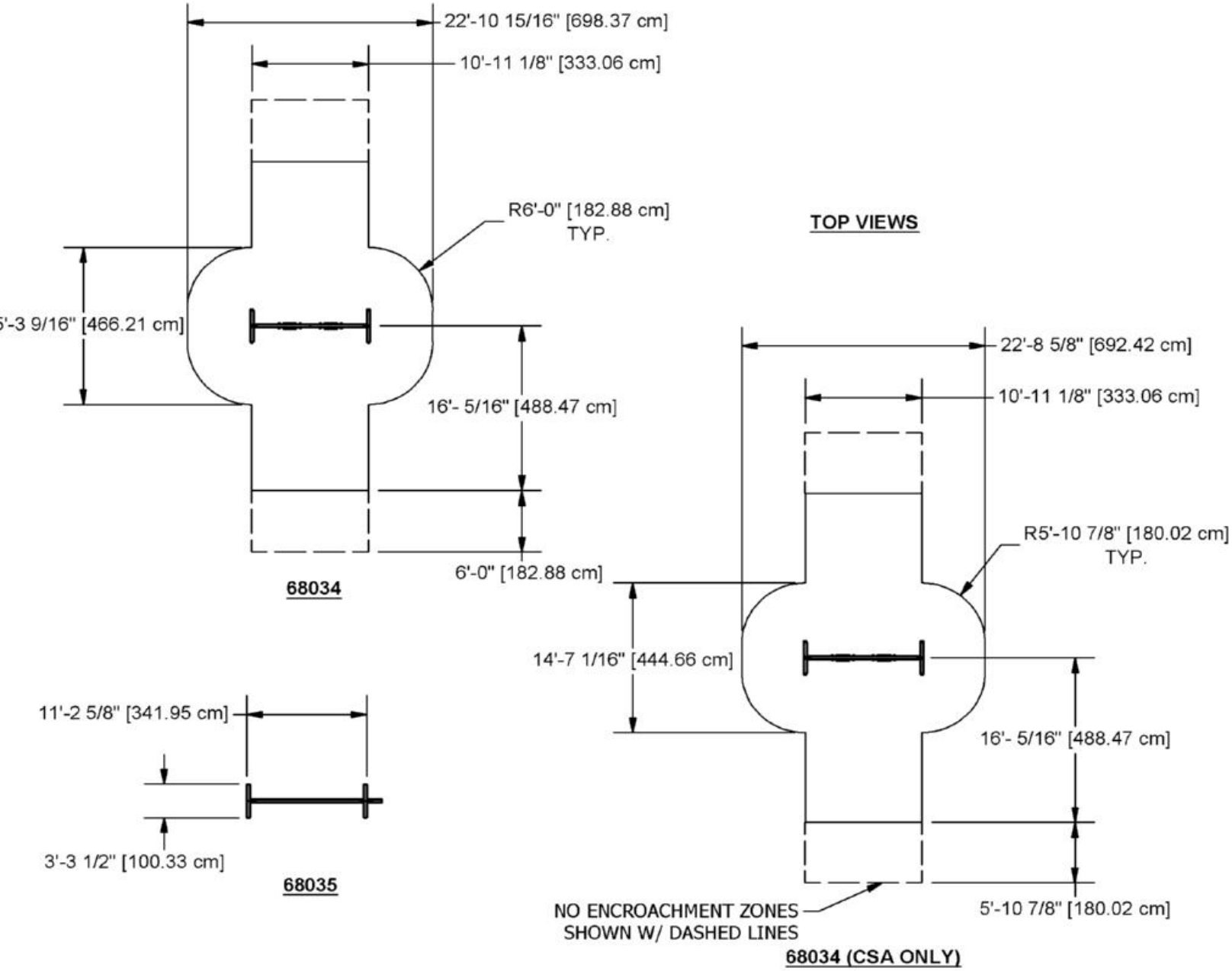


68034 SHOWN (68035 SIMILAR)
WITH OPTIONAL STANDARD
SEAT PACKAGES (NOT INCLUDED)

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING		
STANDARD	MIN.	MAX.
CANADIAN	STRAP - 300mm [11.81"] ENCLOSED TOT SEAT - 600mm [23.62"]	N/A
ASTM	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A
BS EN	350 mm [13.77"]	N/A
CPSC	STRAP - 12" [305mm] ENCLOSED TOT SEAT - 24" [610mm]	N/A

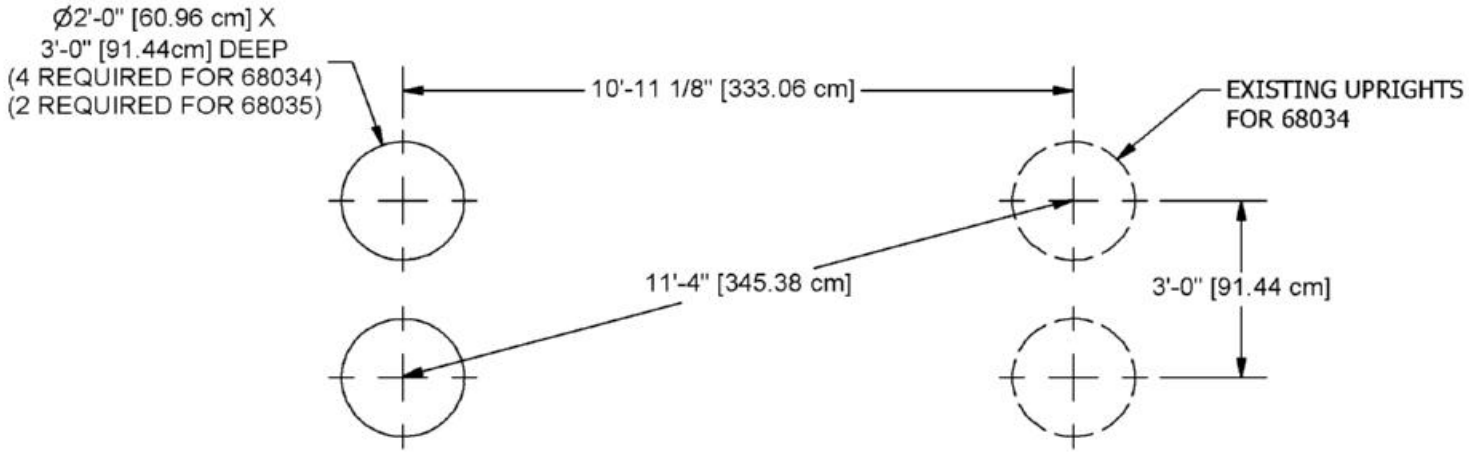
MEASURED WHEN OCCUPIED BY MAXIMUM USERS

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



NOTE:
1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-614 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA ***NO ENCROACHMENT*** ZONE (CANADA ONLY).
4. *EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND ***NO ENCROACHMENT*** ZONE DIMENSIONS BY 10'-11 1/8" [3.33M].

68034 3 1/2" O.D. STANDARD ARCH SWING - 2 SEATS
68035 3 1/2" O.D. STANDARD ARCH SWING ADD-A-BAY



GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED:
.23 CUBIC YARDS
.18 CUBIC METERS
(PER HOLE)

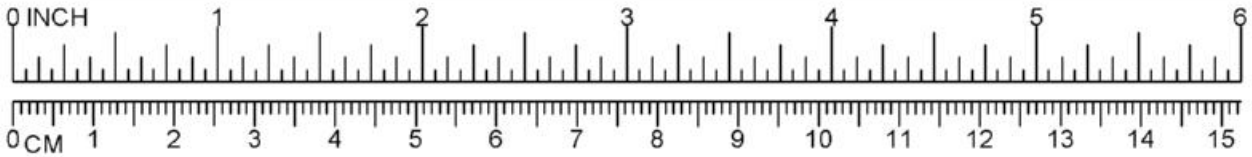
DETAILS -for-
68034 & 68035

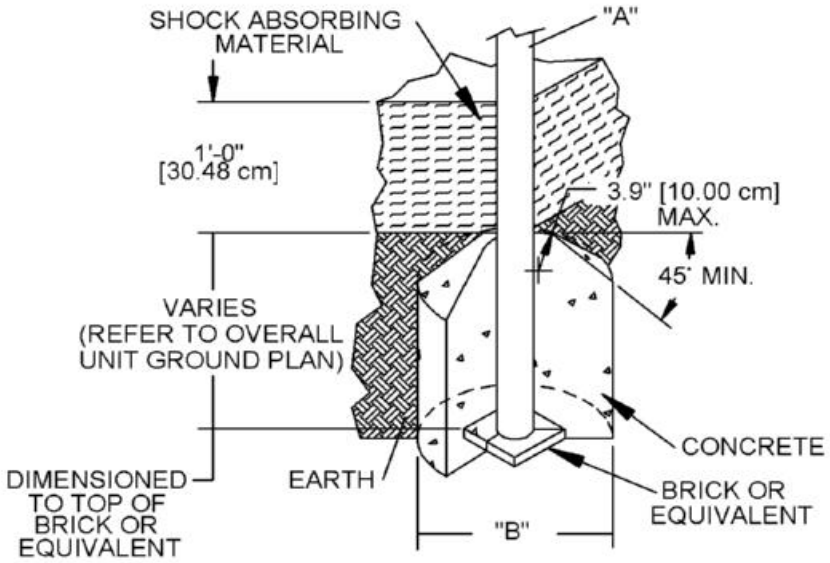
IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



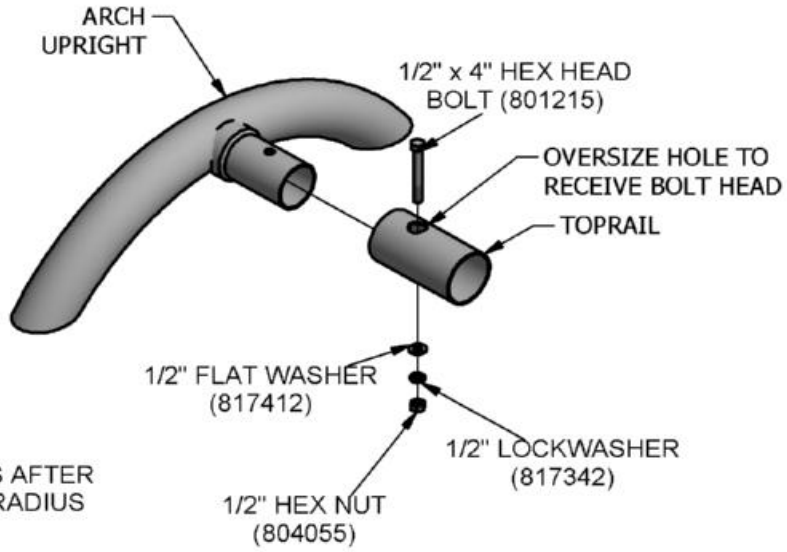


DIA. "A" (PIPE SIZE)	DIA. "B" (FOOTING SIZE)
1 1/16" [2.70 cm]	1'-2" [35.56 cm]
1 5/16" [3.33 cm]	1'-2" [35.56 cm]
1 5/8" [4.13 cm]	1'-2" [35.56 cm]
1 7/8" [4.83 cm]	1'-2" [35.56 cm]
2 3/8" [6.03 cm]	1'-2" [35.56 cm]
3 1/2" [8.89 cm]	1'-6" [45.72 cm]
ARCH SWING	
3 1/2" [8.89 cm]	2'-0" [60.96 cm]

NOTES:
-SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
-SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

005

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.



NOTE: PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.

68115 ACTIVITY METER

Parts List		
DESCRIPTION	QTY	PART NUMBER
FREESTANDING METER PANEL	1	313741
SUPPORT PIPE	1	313832
HARDWARE COMPLETE	1	313833
3/8" x 3" P.B.H.C.S. w/PATCH	1	812059*
3/8" FLAT WASHER (1 1/4" O.D.)	1	817424*
3/8" BARREL NUT	1	804804*
1/2" FLAT WASHER (1 3/8" O.D.)	1	817425*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Freestanding Meter Panel:
Shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Denisty (ASTM D-155); Brittleness Temperature (ASTM D-745; Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The frame shall be reinforced with all welded construction fabricated from 1.688" O.D. x .083" (14 gauge) wall galvanized steel tubing, 2.375" x .095" (13 gauge) wall galvanized steel tubing, and 1/4" stainless steel plate.

Support Pipe:
Shall be fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing. The Support Pipe shall be coated with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing hole according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

68115 ACTIVITY METER

2. Attach Support Pipe to Freestanding Meter Panel using 3/8" x 3" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), 1/2" Flat Washer (1 3/8" O.D.), and 3/8" Barrel Nut. See Detail 839.

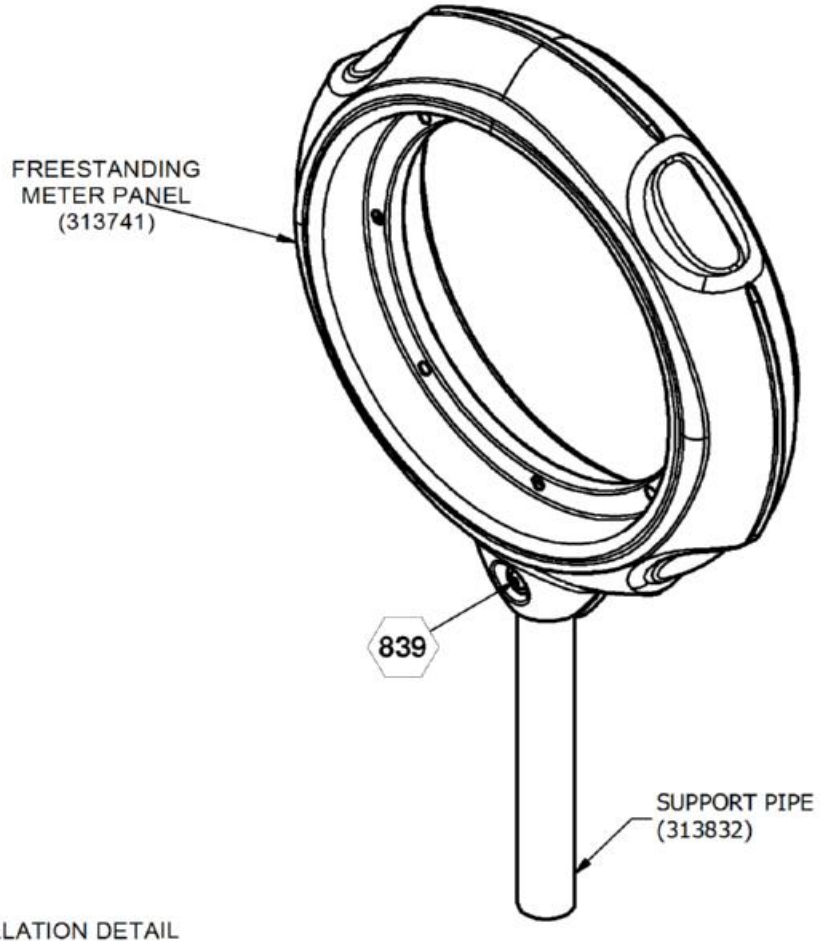
3. Plumb and level the entire assembly and tighten all fasteners.

4. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

5. When the structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

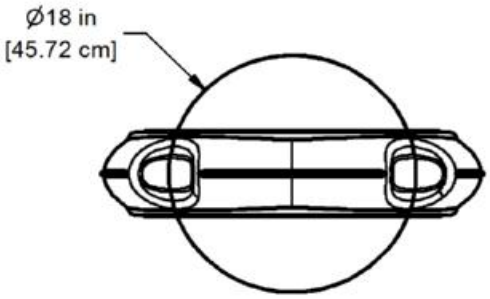
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



⬡ = INSTALLATION DETAIL

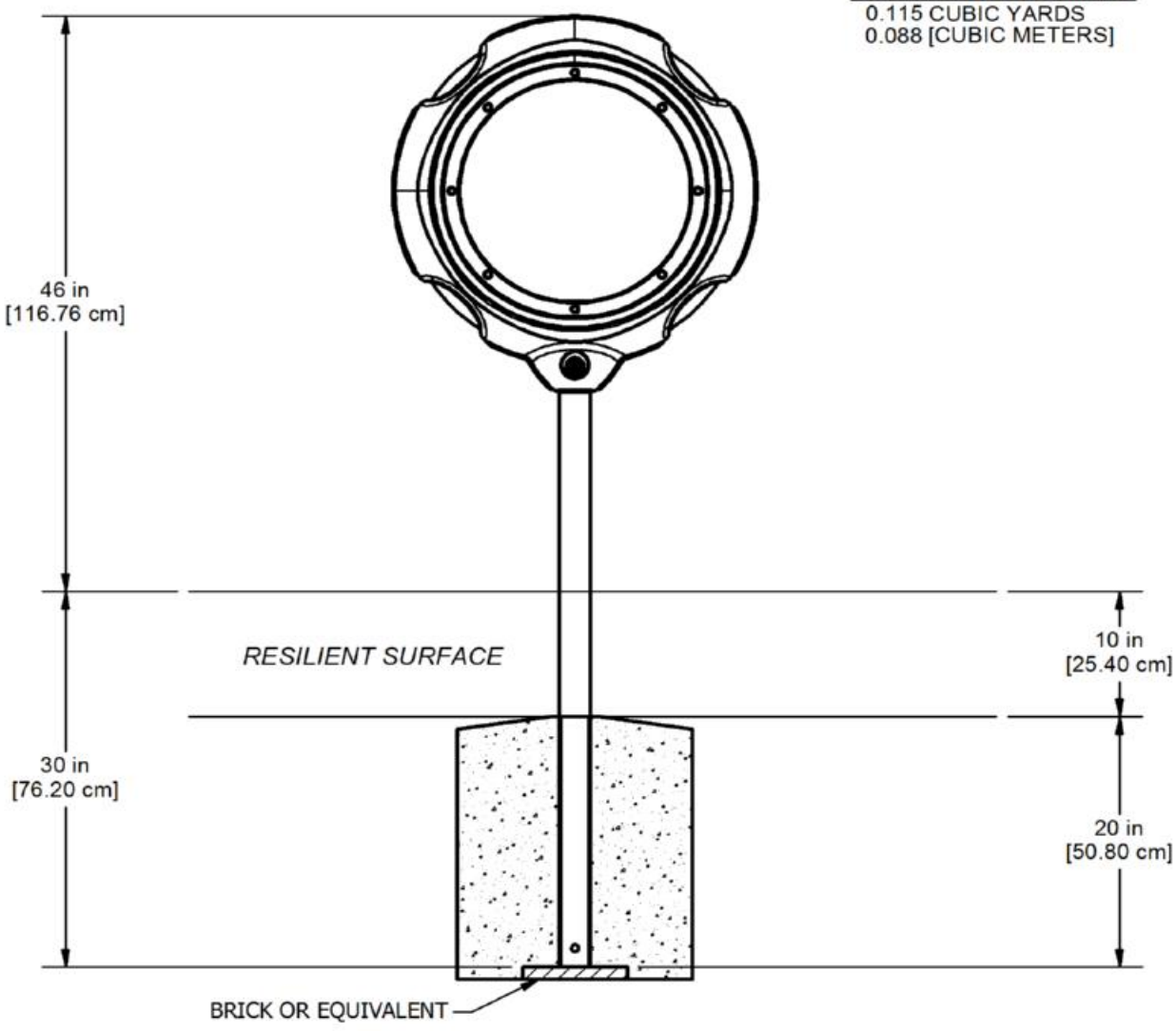
FINISHED ASSEMBLY

68115 ACTIVITY METER



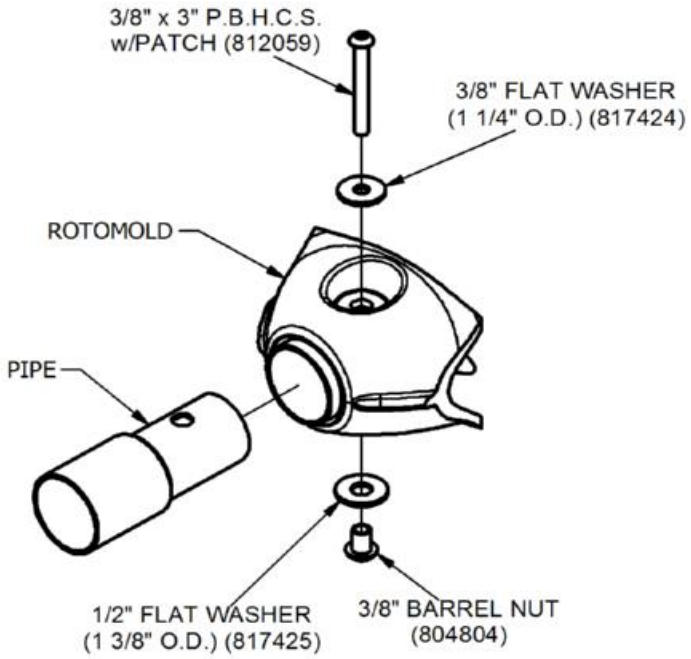
PLAN VIEW

CONCRETE REQUIRED
0.115 CUBIC YARDS
0.088 [CUBIC METERS]



ELEVATION VIEW

68115 ACTIVITY METER



839

68128 SONATA

Parts List		
DESCRIPTION	QTY	PART NUMBER
SONATA INSTRUMENT PACKAGE	1	313936
SONATA FRONT HDPE PANEL	1	313937
SONATA BACK PANEL	1	313938
SONATA SPACER	4	313940
SMALL BRACKET PLATE	1	313943
LONG BRACKET PLATE	1	313946
SONATA SUPPORT ASSEMBLY	1	313948
3 1/2" DOME CAP	2	212995
HARDWARE COMPLETE	1	313971
#10 x 1 1/4" SHEET METAL SCREW	15	810069
#10 x 1 1/2" SHEET METAL SCREW	24	810064
3/8" x 3/4" P.B.H.C.S. w/PATCH	12	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	8	812053
3/8" FLAT WASHER	20	817410
3/8" BARREL NUT	12	804804
3/16" x 13/32" DRIVE RIVET	4	805366
#10 x 1" SCREW	4	815506

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Sonata Instrument Package:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallets shall be an all plastic construction with stainless steel hardware.

Sonata Front HDPE Panel and Sonata Back Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a density of 60 lbs/ft^3 and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Sonata Spacer:
Shall be fabricated from 1.315" O.D. x .083" (14 gauge) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded pipe insert. The Sonata Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein

Small Bracket Plate:
Shall be fabricated from 11 ga. 18" x 1/8" thick stainless steel. The Small Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Long Bracket Plate:
Shall be fabricated from 11 ga. 40"" x 1/8" thick stainless steel. The Long Bracket Plate shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

68128 SONATA

Sonata Support Assembly:
Shall be an all welded construction fabricated from 2.375" x .095" (13 gauge) wall galvanized steel tubing, 3 1/2" O.D. x .095" (13 gauge) galvanized steel tubing, 1/4" thick laser cut plate, and 13 ga. 2.375" o.d. galv. tubing. The Sonata Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

Hardware:
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Sonata Instrument Insert to Sonata Back Panel using #10 x 1 1/4" Wood Screw. See Detail 851.

3. Attach Sonata Back Panel to Sonata Support Assemby using #10 x 1 1/2" Sheet Metal Screw. See Detail 852. Attach Caps to Support Assembly using 3/16" x 13/32" Drive Rivets as shown in Detail 597.

4. Attach Small Bracket Plate and Long Bracket Plate to Sonata Back Panel and Sonata Front HDPE Panel using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 853. **NOTE:** *Refer to Detail Views A and B for bracket orientation.*

5. Attach Sonata Spacer to Sonata Back Panel and Sonata Front HDPE Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 854.

6. Attach Mallets to the bottom edge of Sonata Front Panel using #10 x 1"Screw (Included in Hardware Complete Package). See Detail 856. **NOTE:** *Drill 1/8" pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes.* **NOTE:** *Make sure to install mallets no higher than 26 1/2" from top of connection point. Refer to Finished Assembly View and Elevation View.*

7. Plumb and level the entire assembly and tighten all fasteners.

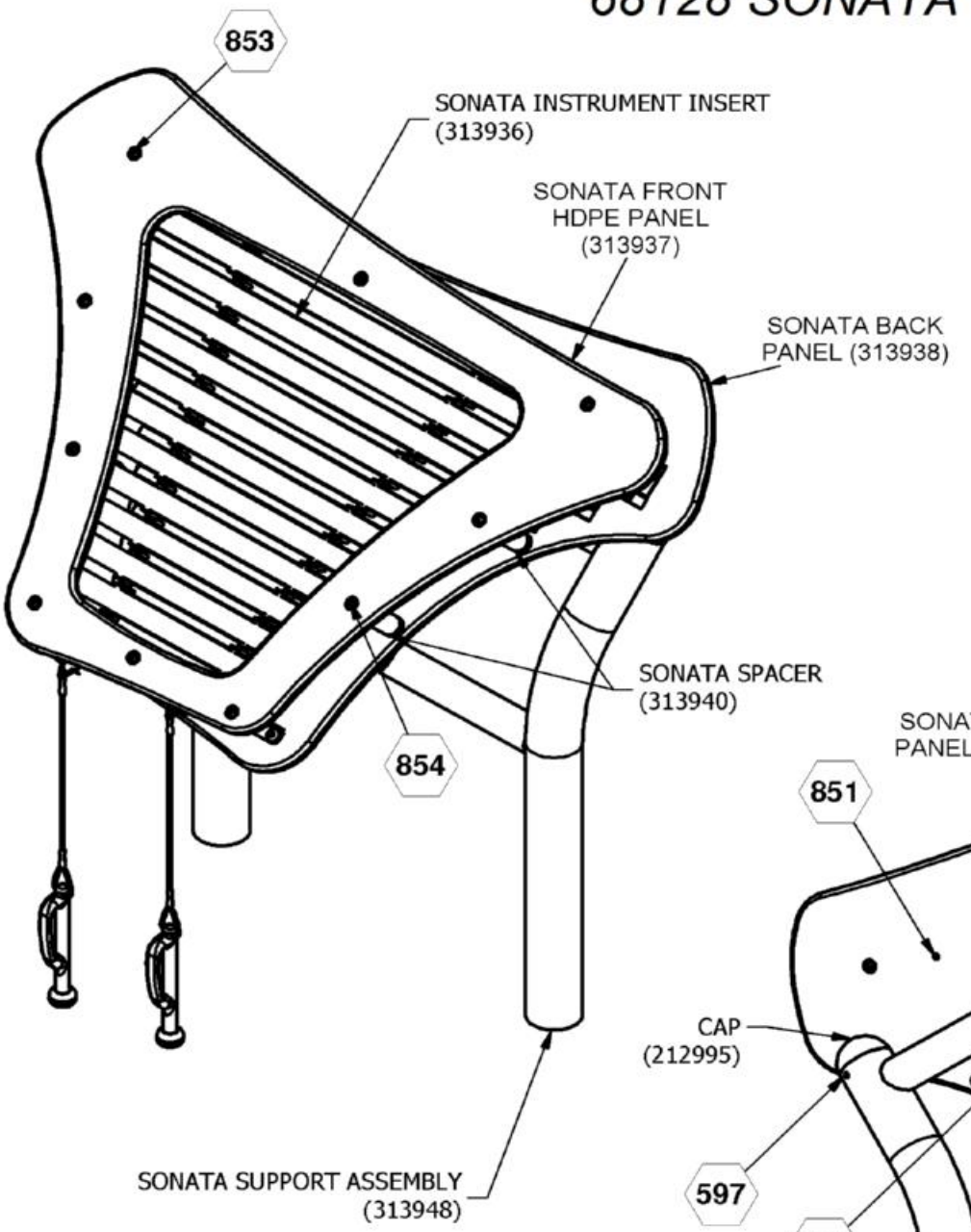
8. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures

9. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

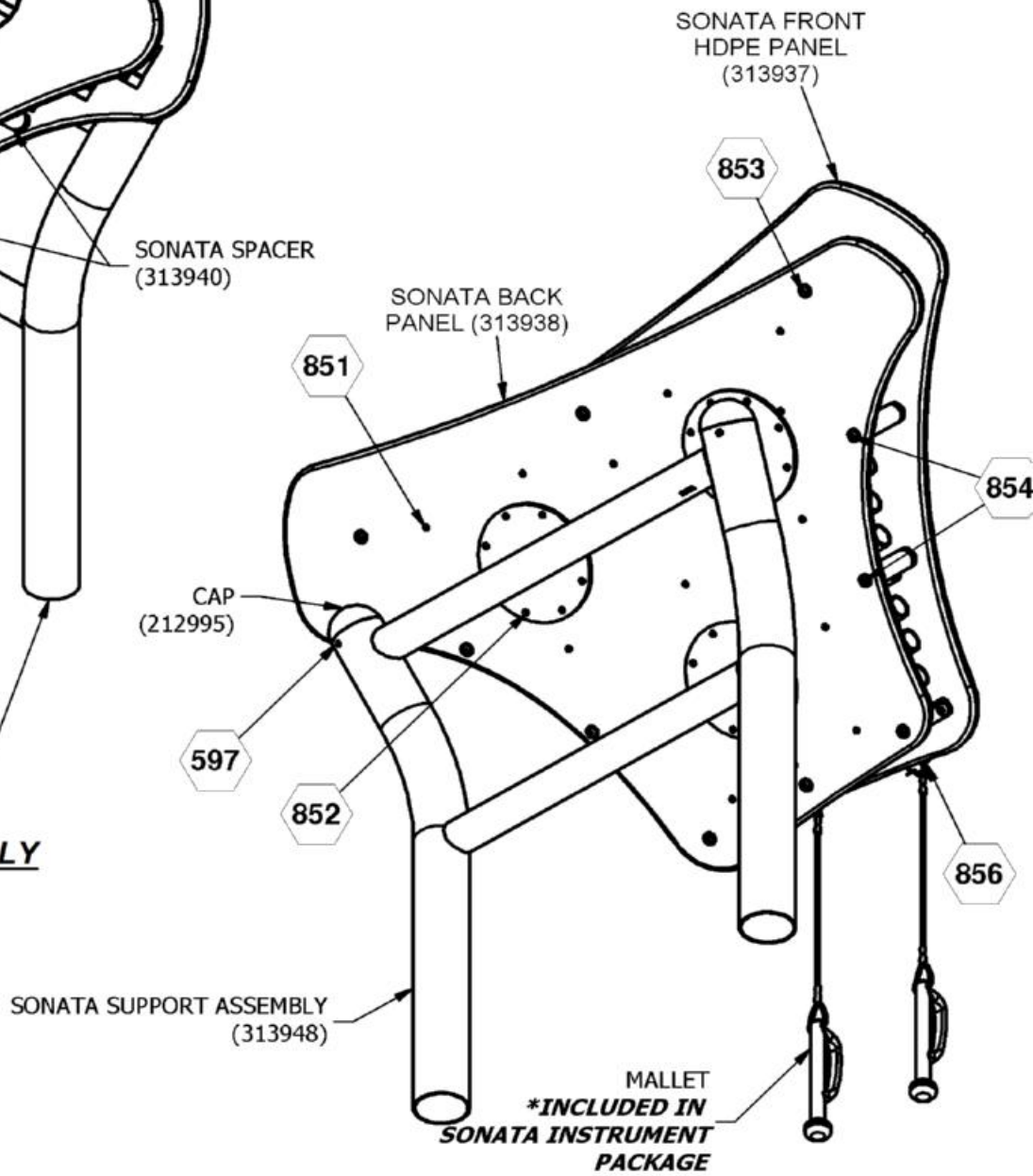
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68128 SONATA



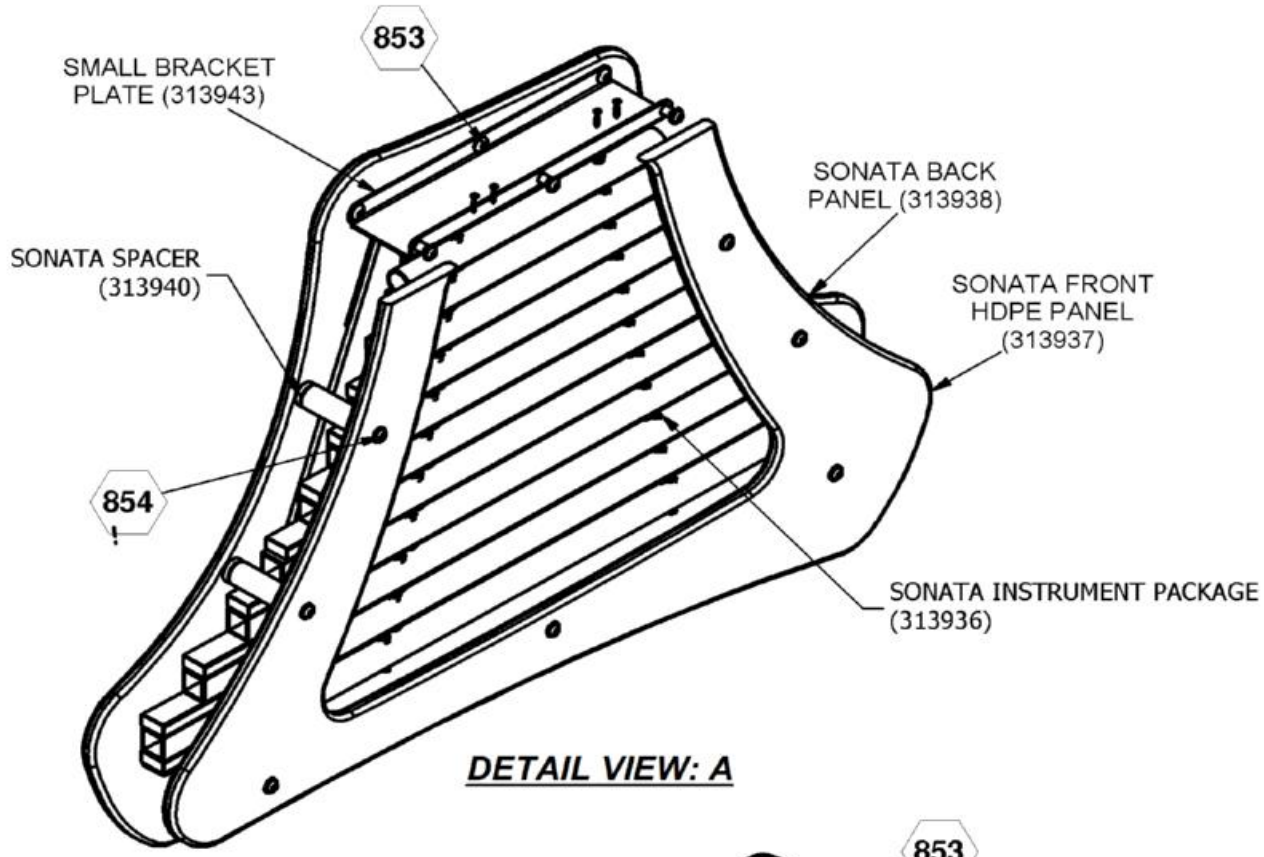
FINISHED ASSEMBLY



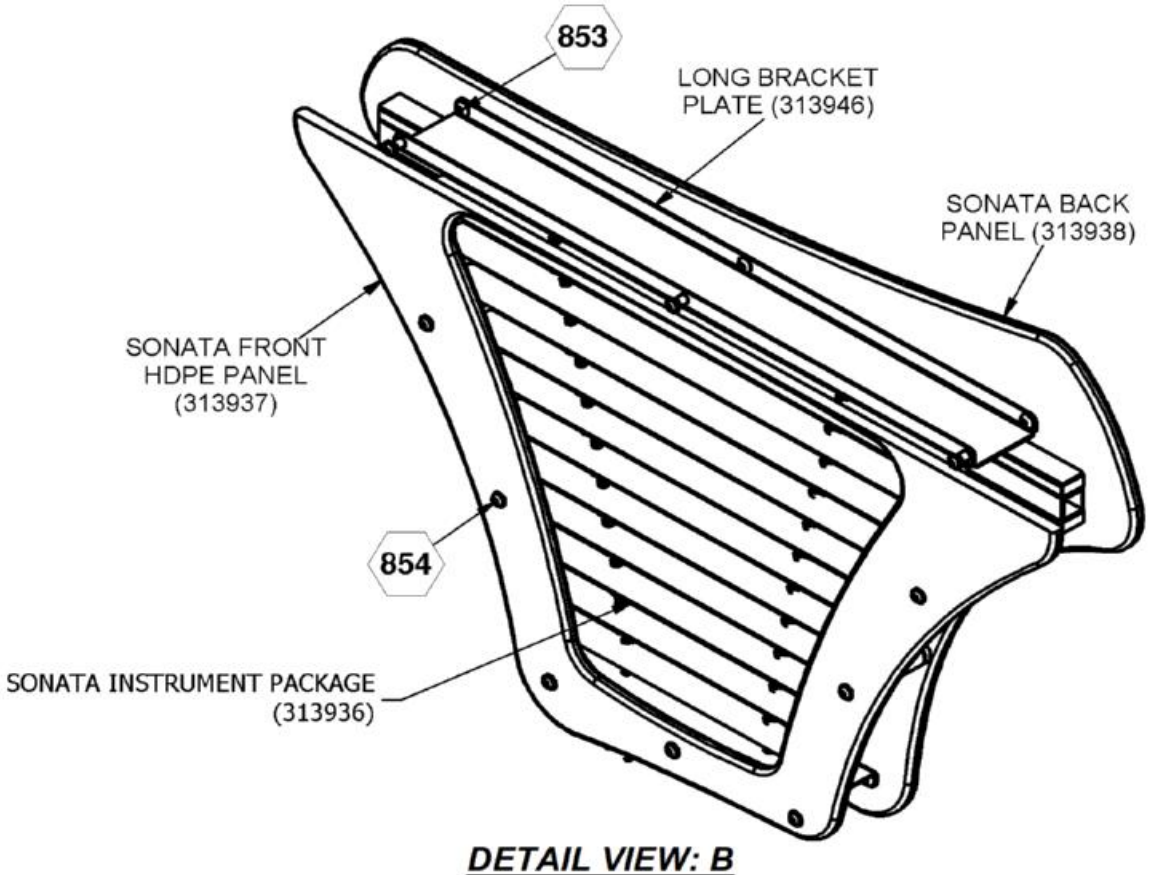
UNDERNEATH VIEW

⬡ = INSTALLATION DETAIL

68128 SONATA

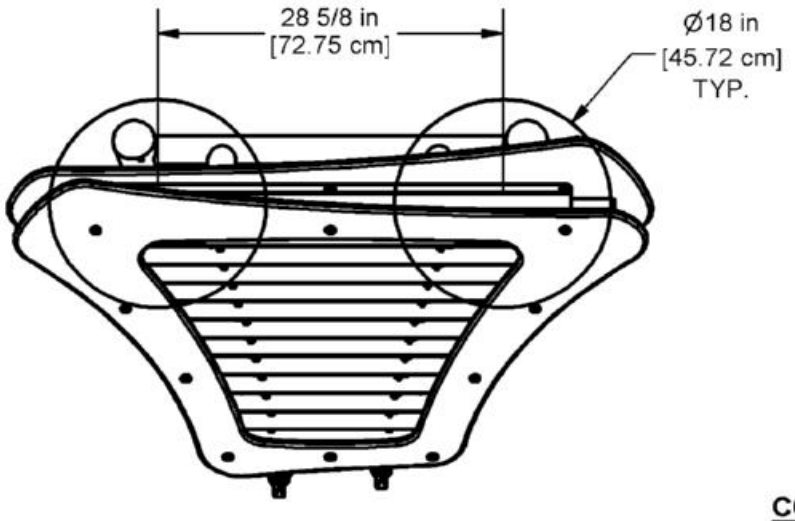


DETAIL VIEW: A



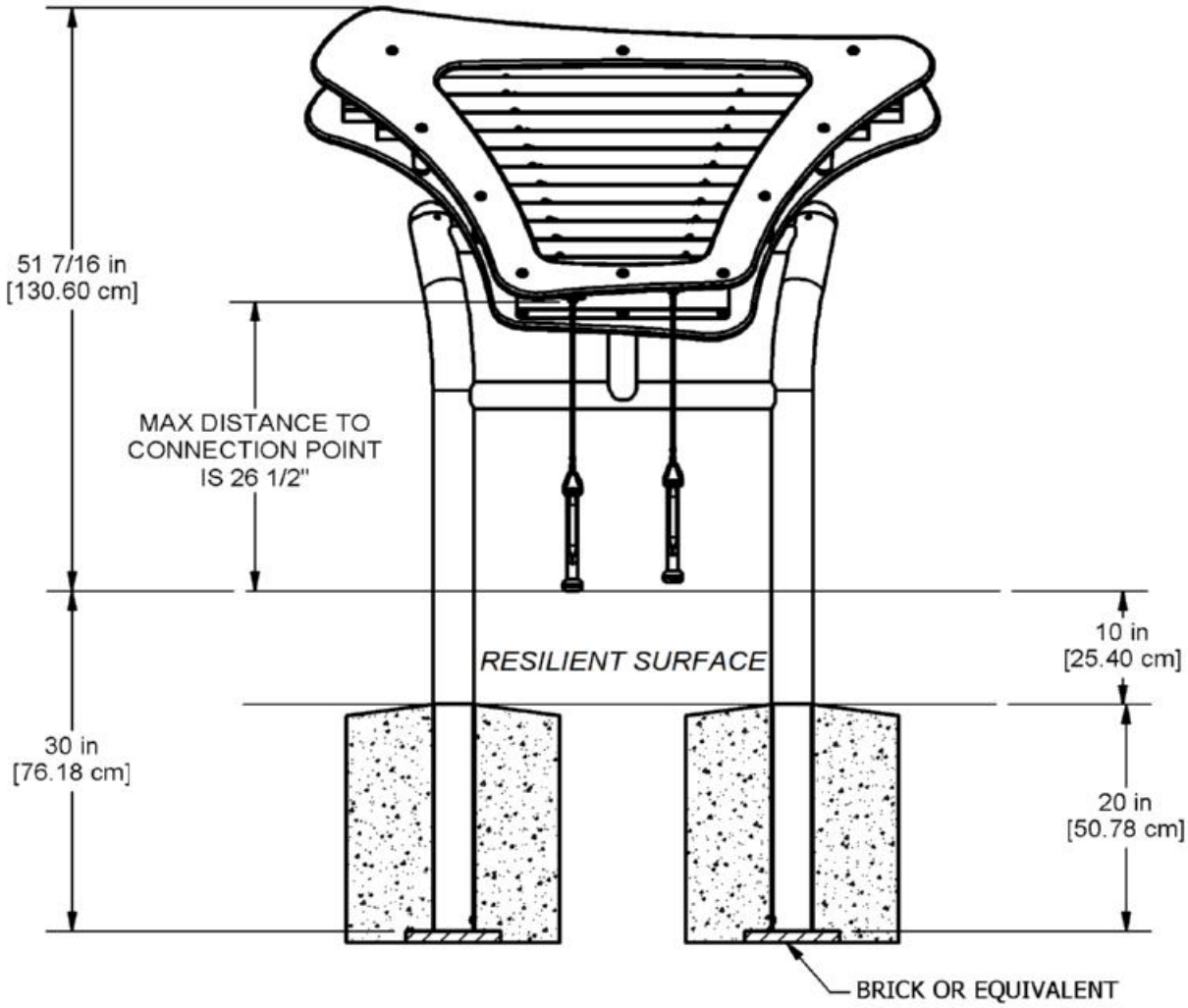
DETAIL VIEW: B

68128 SONATA



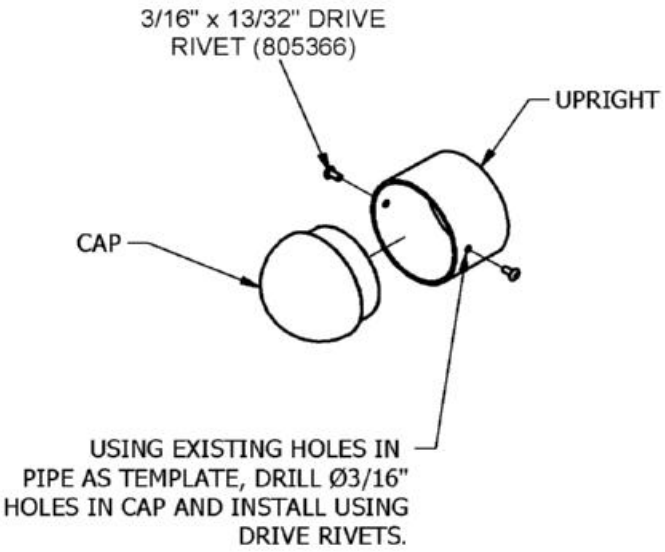
PLAN VIEW

CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

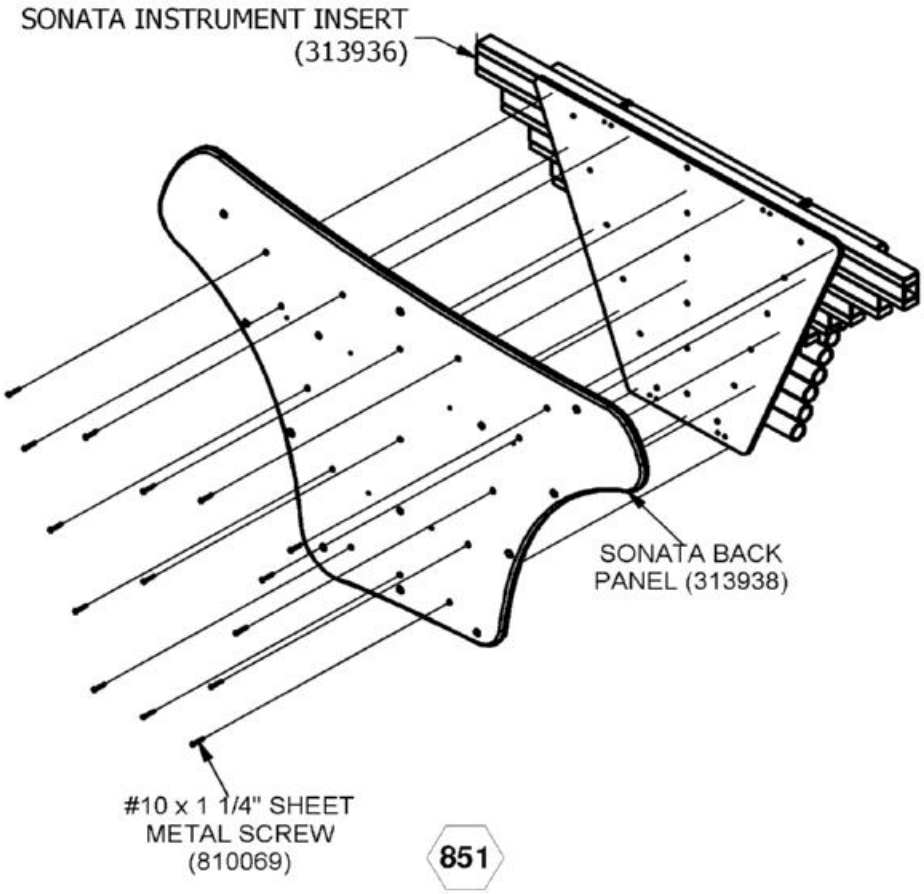


ELEVATION VIEW

68128 SONATA

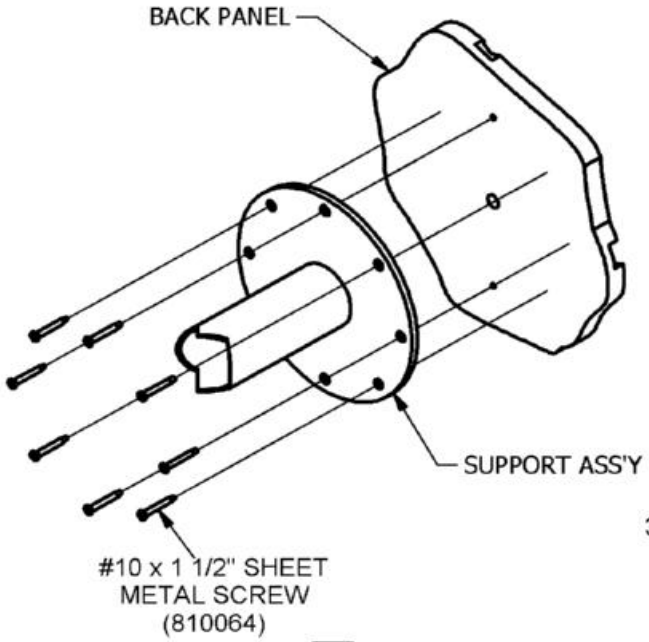


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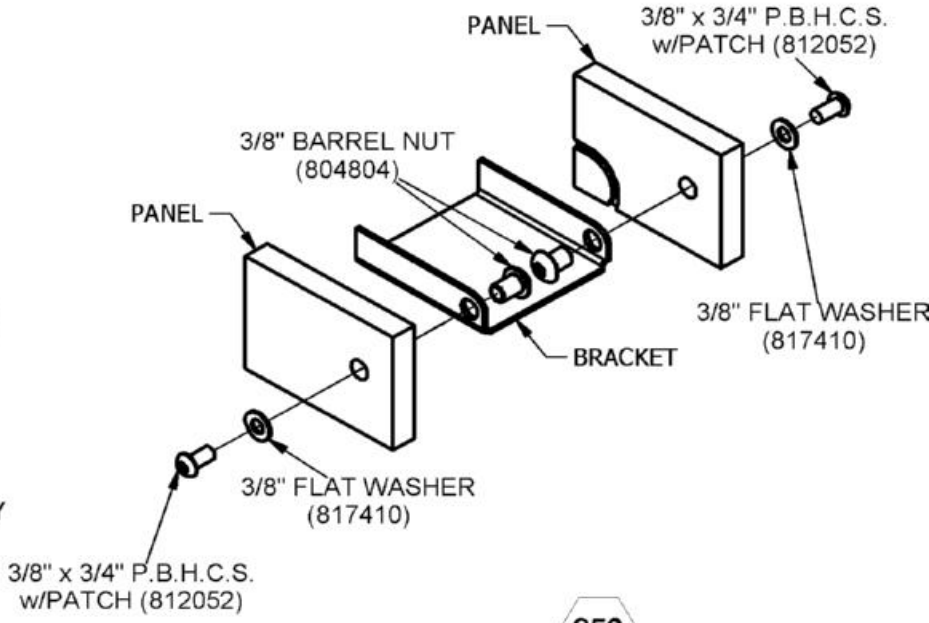


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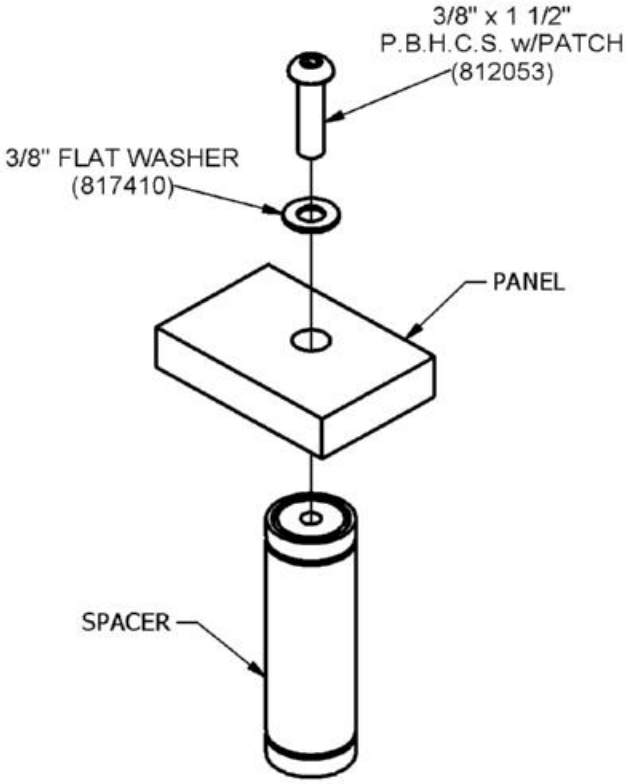
68128 SONATA



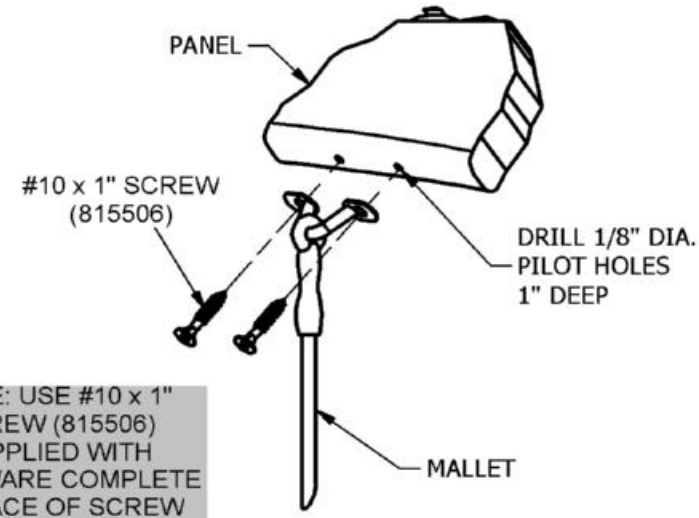
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853



854



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET.
PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.

856

68129 PRESTO

Parts List		
DESCRIPTION	QTY	PART NUMBER
PRESTO INSTRUMENT PACKAGE	1	313912
PRESTO FRONT HDPE PANEL	1	313914
PRESTO BACK HDPE PANEL	1	313915
PRESTO SPACER	10	313917
PRESTO SUPPORT ASSEMBLY	1	313919
3 1/2" DOME CAP	2	212995
HARDWARE COMPLETE	1	313972
#10 x 1 1/4" SHEET METAL SCREW	15	810069
#10 x 1 1/2" SHEET METAL SCREW	16	810064
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	20	812053
3/8" FLAT WASHER	20	817410
3/16" x 13/32" DRIVE RIVET	4	805366
#10 x 1" SCREW	4	815506

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

SPECIFICATIONS:

Presto Instrument Package:
Shall be constructed of anodized aluminum chimes, plastic slats, and 3/8" thick pvc sheet. Mallet shall be an all plastic construction with stainless steel hardware.

Presto Front HDPE Panel and Presto Back HDPE Panel:
Shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-desnity polyethylene with colors molded in. The material will have a denisty of 60lbs/ft³ and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

Presto Spacer:
Shall be fabricated from 1.315" O.D. x .083 (14 gauage) wall galvanized steel tubing and .375" zinc plated .5 mil coating with chromate finish threaded insert. The Presto Spacer shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Presto Support Assembly:
Shall be an all welded construction fabricated from 2.375" O.D. x .095" (13 gauge) wall galvanized steel tubing, 3.5" O.D. x .095" (13 gauge) wall galvanized steel tubing, and 1/4" thick laser cut plate. The Presto Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Powder Coat Finish:
Shall be an electrostatically applied custom formula fo TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68).

68129 PRESTO

Hardware:
All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plate steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. NOTE: All weights are based on average comparisons of each part.

INSTALLATION INSTRUCTIONS:

1. Locate and dig footing holes according to Plan View. See Plan View for dimensions and notes regarding surfacing, etc. **NOTE:** *Due to extremes in weather and soil conditions, hole sizes may have to be increased to meet local conditions.*

2. Attach Presto Back HDPE Panel to Presto Support Assemby using #10 x 1 1/2" Sheet Metal Screw. See Detail 852. Attach Caps to Suppo Assembly using 3/16" x 13/32" Drive Rivets as shown in Detail 597.

3. Attach Presto Instrument Insert to Presto Back HDPE Panel using #10 x 1 1/4" Sheet Metal Screw. See Detail 855.
   IMPORTANT: Orientation of instrument insert is critical. Open end of chimes must be facing down to allow drainage.

4. Attach Presto Spacer to Presto Back HDPE Panel and Presto Front HDPE Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch and 3/8" Flat Washer. See Detail 854.

5. Attach Mallets to the bottom edge of Presto Back HDPE Panel using #10 x 1" Screw (Included in Hardware Complete). See Detail 856. **NOTE:** *Drill 1/8" pilot holes using bracket as a template and place Mallets so that each one reaches all the chimes.*
   NOTE: *Make sure to install mallets no higher than 26 1/2" from the top of connection point. Refer to Finished Assembly View and Elevation View.*

6. Plumb and level the entire assembly and tighten all fasteners.

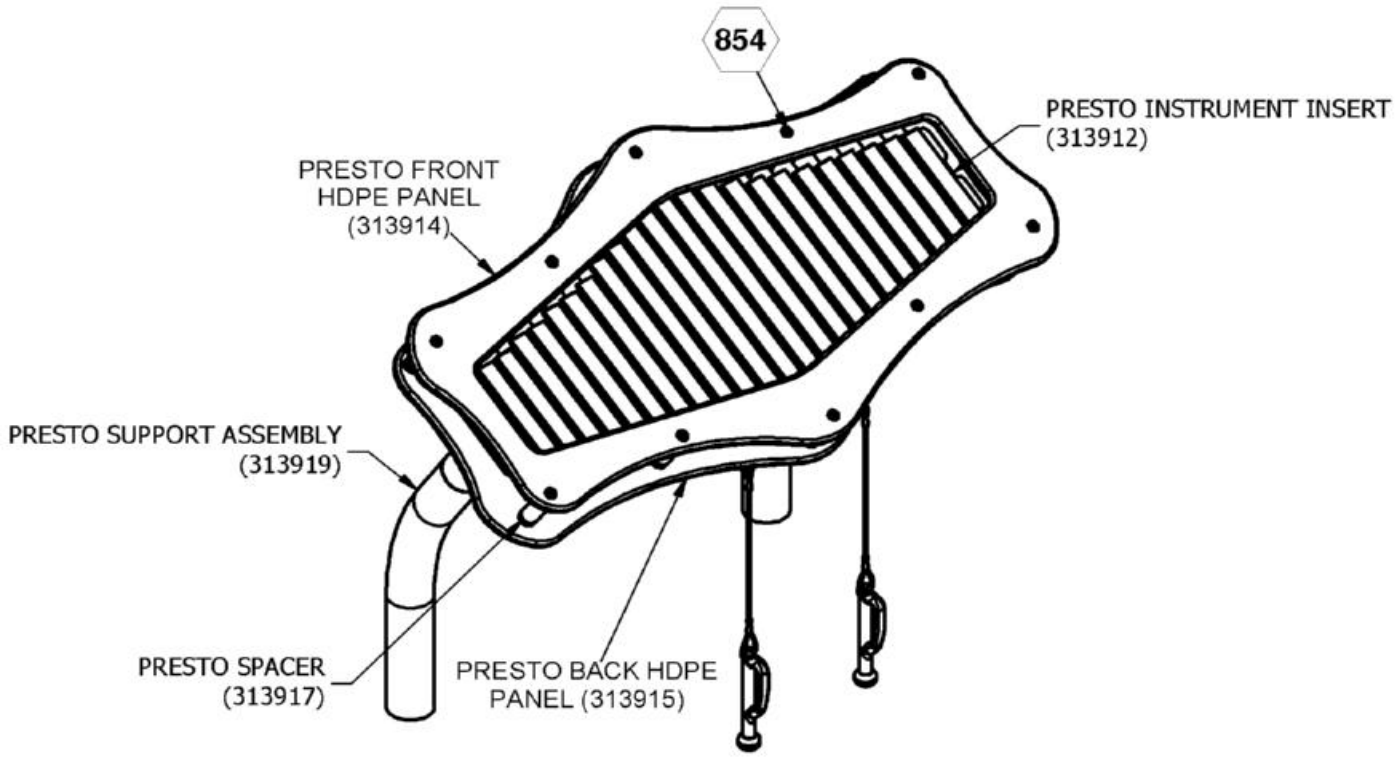
7. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

8. When structure is finished and satisfactory, eliminate sharp points and edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

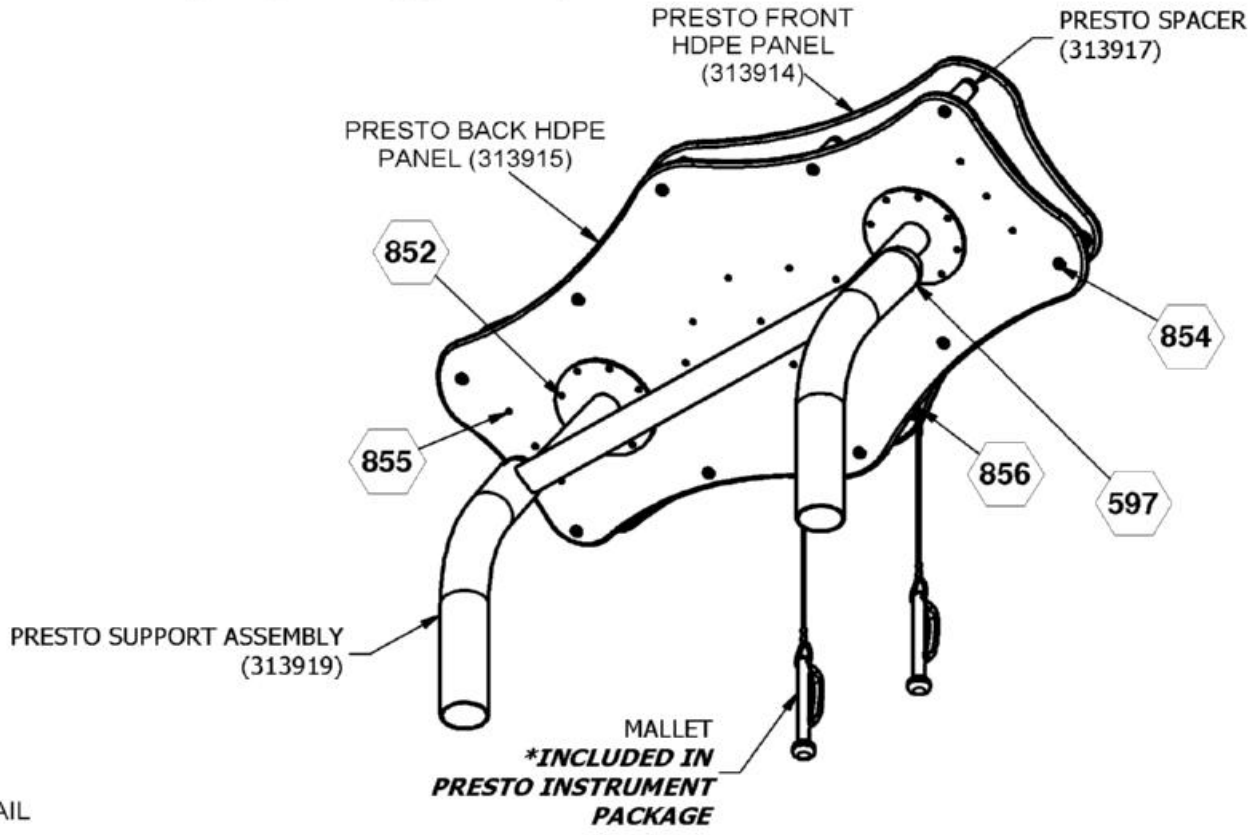
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

68129 PRESTO



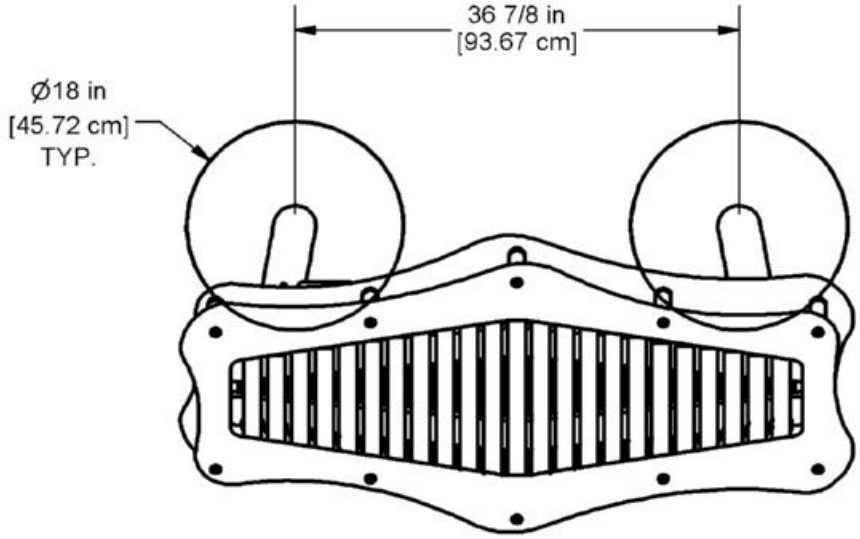
FINISHED ASSEMBLY



= INSTALLATION DETAIL

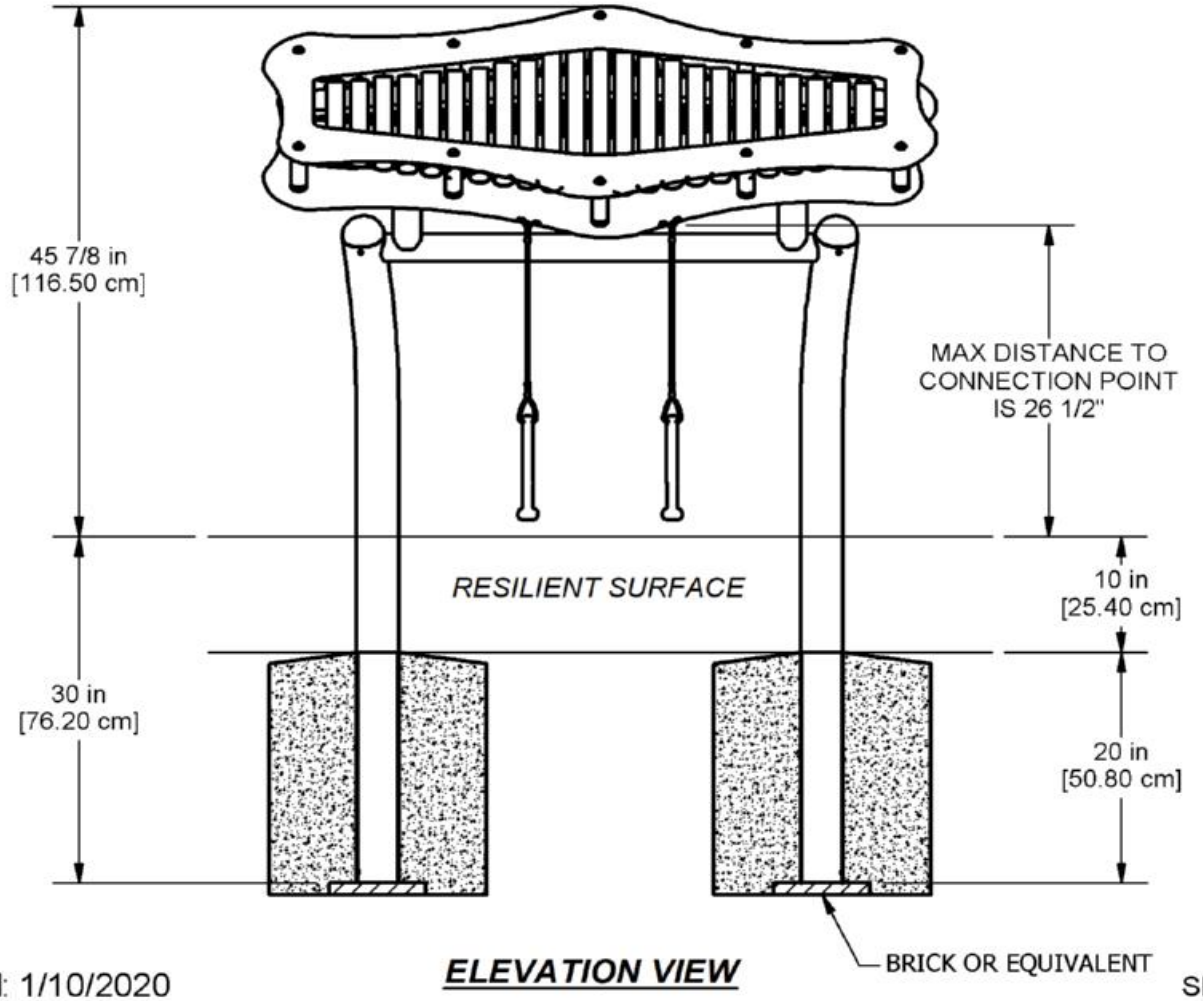
UNDERNEATH VIEW

68129 PRESTO



CONCRETE REQUIRED
0.229 CUBIC YARDS
0.175 [CUBIC METERS]

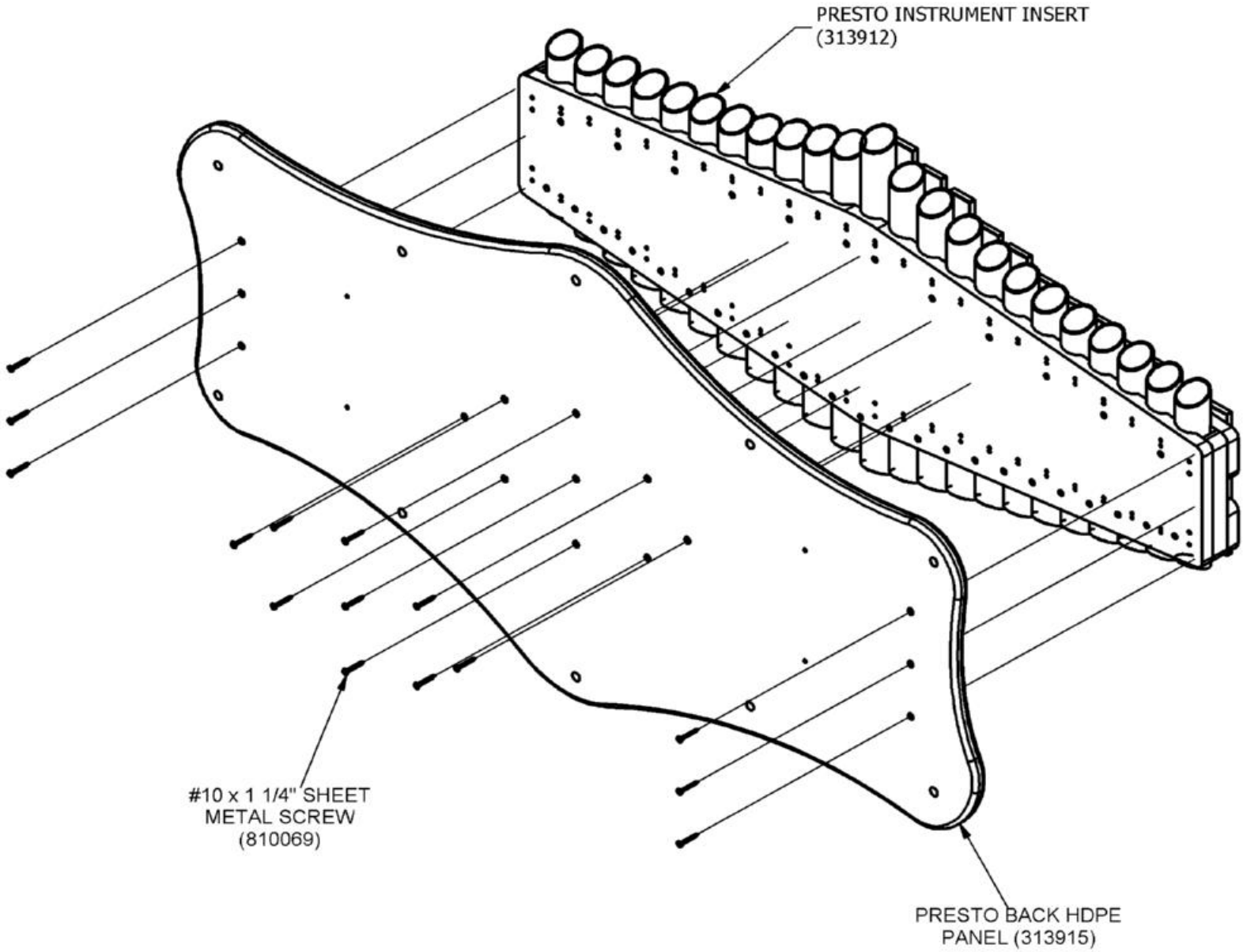
PLAN VIEW



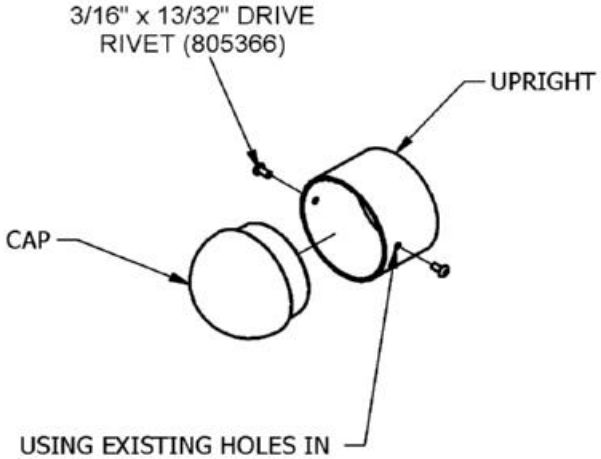
ELEVATION VIEW

68129 PRESTO

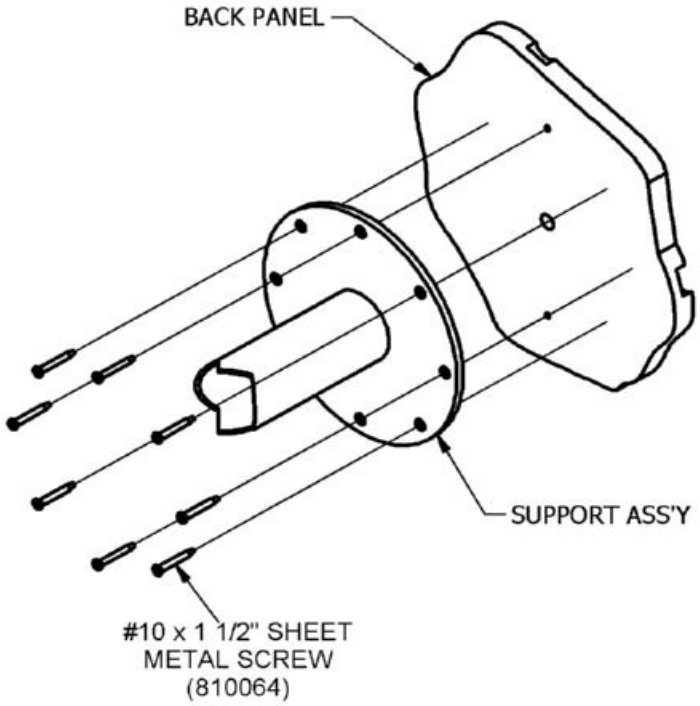
IMPORTANT: ORIENTATION OF INSTRUMENT INSERT IS CRITICAL.
OPEN END OF CHIMES MUST BE FACING DOWN TO ALLOW DRAINAGE.



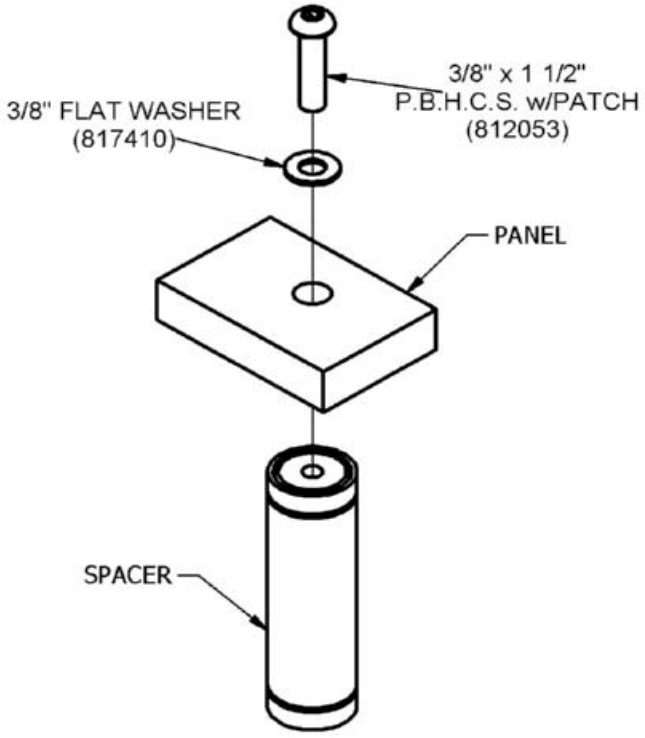
68129 PRESTO



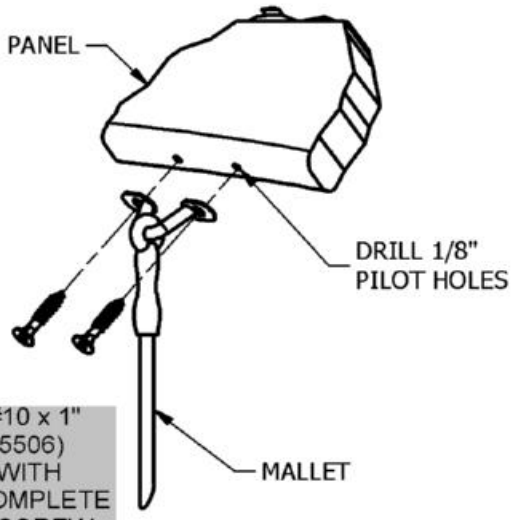
597



852



854



NOTE: USE #10 x 1" SCREW (815506) SUPPLIED WITH HARDWARE COMPLETE IN PLACE OF SCREW SUPPLIED WITH MALLET.
PILOT HOLE MUST BE DRILLED BEFORE ATTACHING.

856

SuperMax Play Systems

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck

Parts List				
DESCRIPTION	71000	71001	71002	PART NUMBER
DECK ADAPTER	4	3	3	309921
SQUARE DECK PLATFORM	1	0	0	309922
TRIANGLE DECK PLATFORM	0	1	0	309928
ISOSCELES TRIANGLE DECK PLATFORM	0	0	1	309932
HARDWARE COMPLETE	1	0	0	309927
HARDWARE COMPLETE	0	1	1	309931
1/4" x 3/4" SET SCREW	8	6	6	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	2	2	812052
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	3	3	812051
3/8" LOCK WASHER	6	5	5	817334
3/8" FLAT WASHER (1 1/4" O.D.)	6	5	5	817424
3/8" T-NUT	2	2	2	804556

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Uprights in dug holes at appropriate height per Upright installation instructions. Get the height required for the deck from the Plan View Diagram. Use a felt-tip marker to mark the top of the Ring Clamp on all uprights.

2. Loosely attach all Ring Clamps to the uprights. Refer to the seperate Ring Clamp Installation sheet.

3. Attach Deck Adapters to the Ring Clamps using 1/4" x 3/4" set screw. Do not overly tighten set screws. Attach decks to the Deck Adapter using 3/8" x 1 1/4" P.B.H.C.S., 3/8" Flat Washer, and 3/8" Lock Washer as shown in Detail 447. Plumb and level uprights and brace in position.

4. Using a level, and holding one Ring Clamp as a constant, adjust the other clamps so that the deck is completely level. At this point, if you have more decks to attach, lay each succeeding deck on the ground against the previous deck's two posts, and mark the missing footings to be dug. Continue attaching decks in this manner. Tighten set screws after all decks are attached.

5. Attach side-by-side decks to one another using 3/8" x 3/4" P.B.H.C.S., 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut as shown in Detail 061.

6. When all decks are completed and correct, pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow curing at least 48 hours before use.

7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

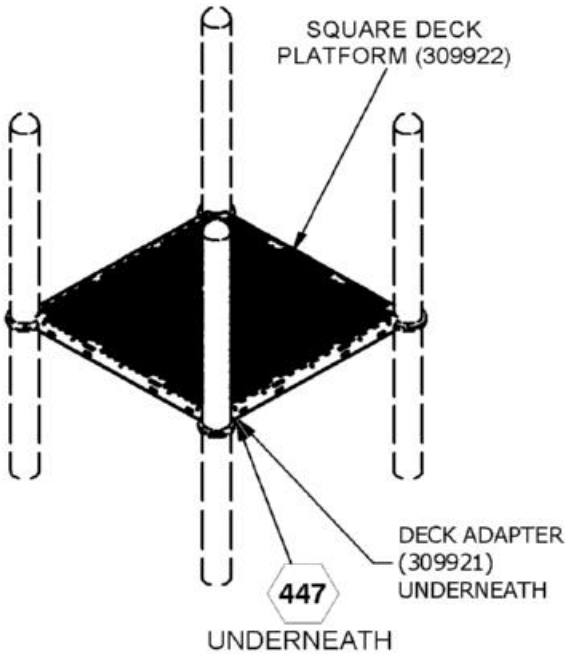
SuperMax Play Systems

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck

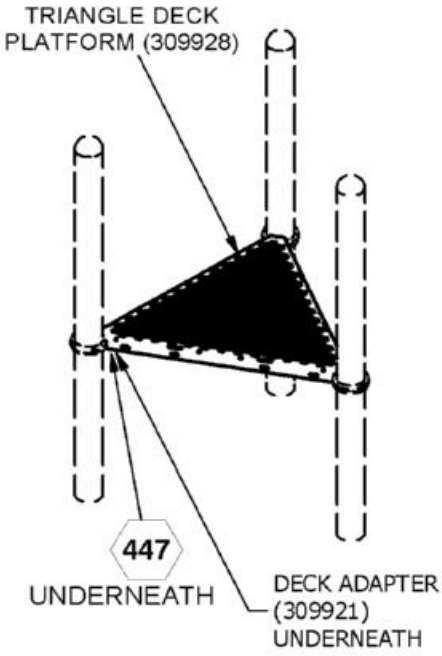
Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

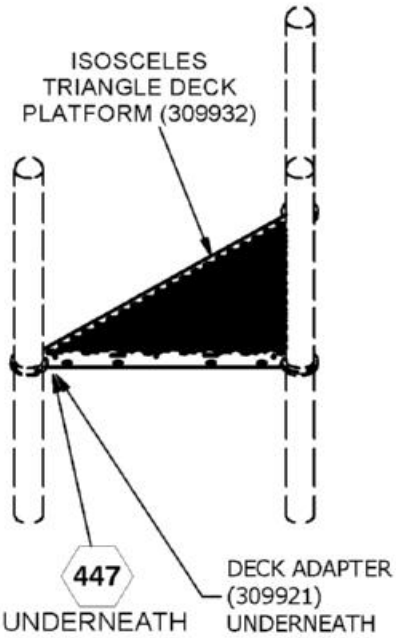
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



SQUARE DECK



TRIANGLE DECK



ISOSCELES TRIANGLE DECK

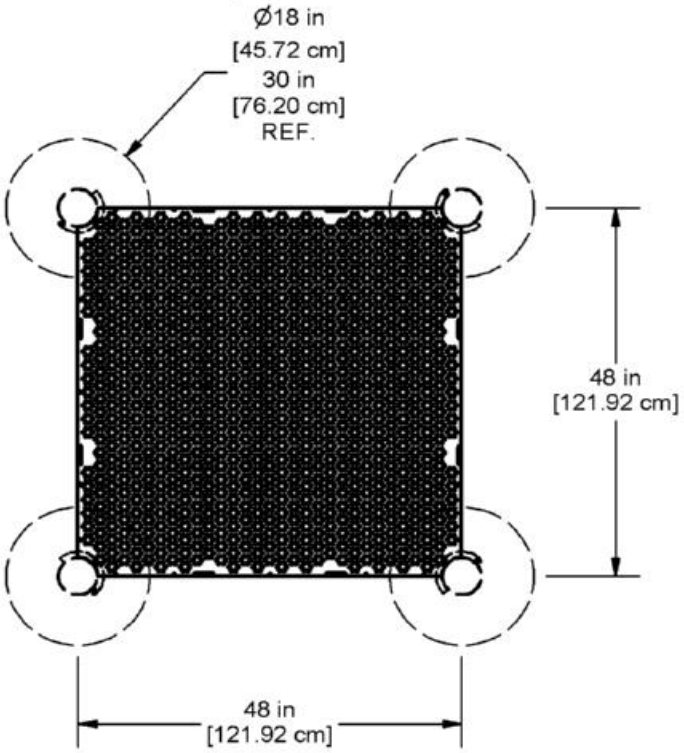
FINISHED ASSEMBLY

= INSTALLATION DETAIL

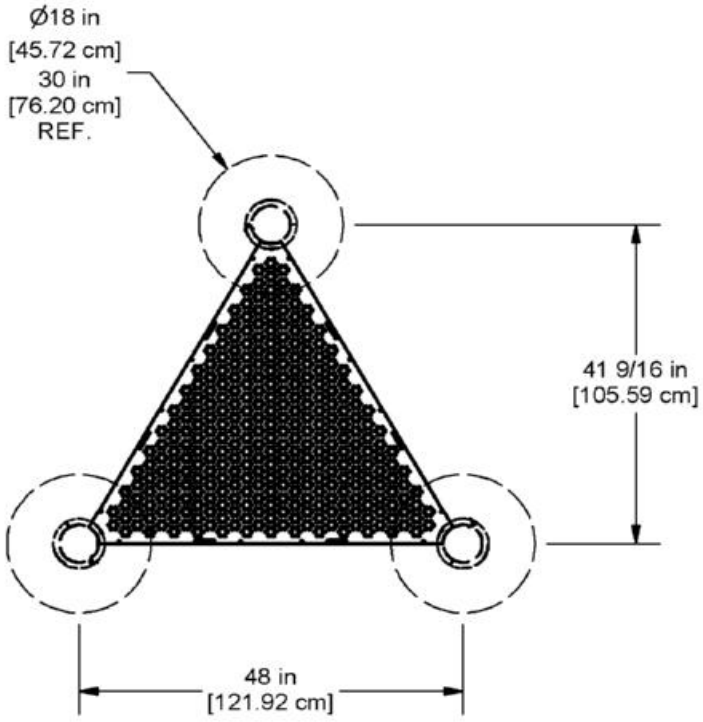
COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 7/13/2012

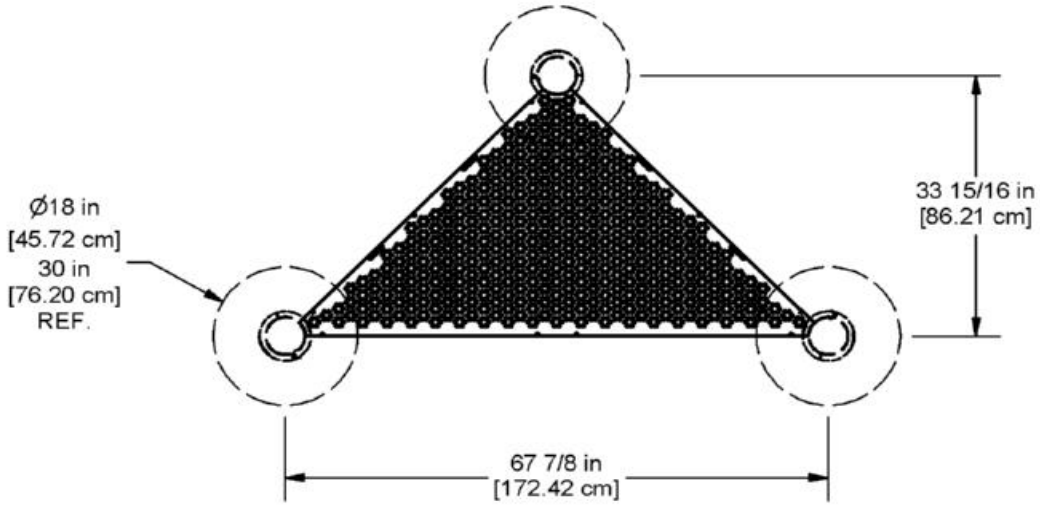
71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck



SQUARE DECK



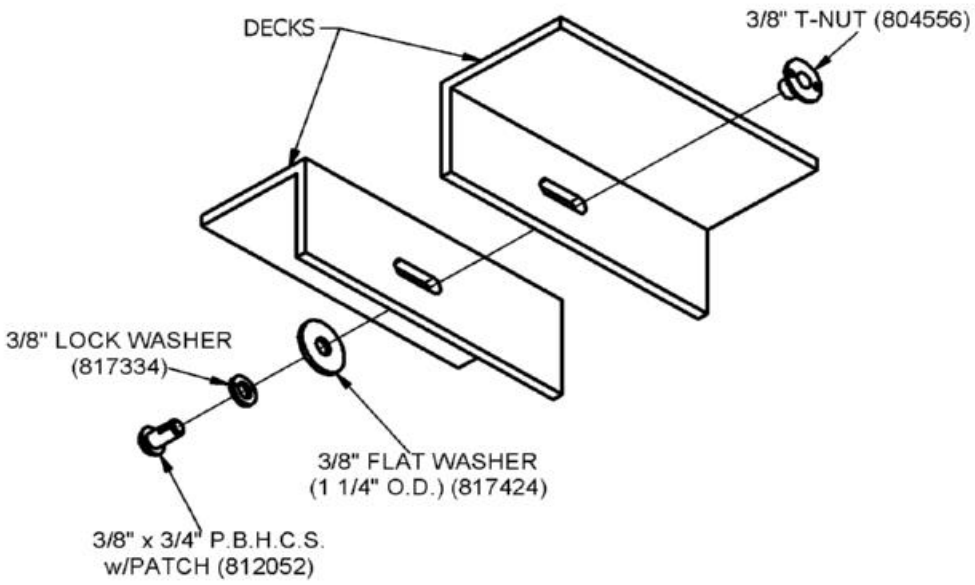
TRIANGLE DECK



ISOSCELES TRIANGLE DECK

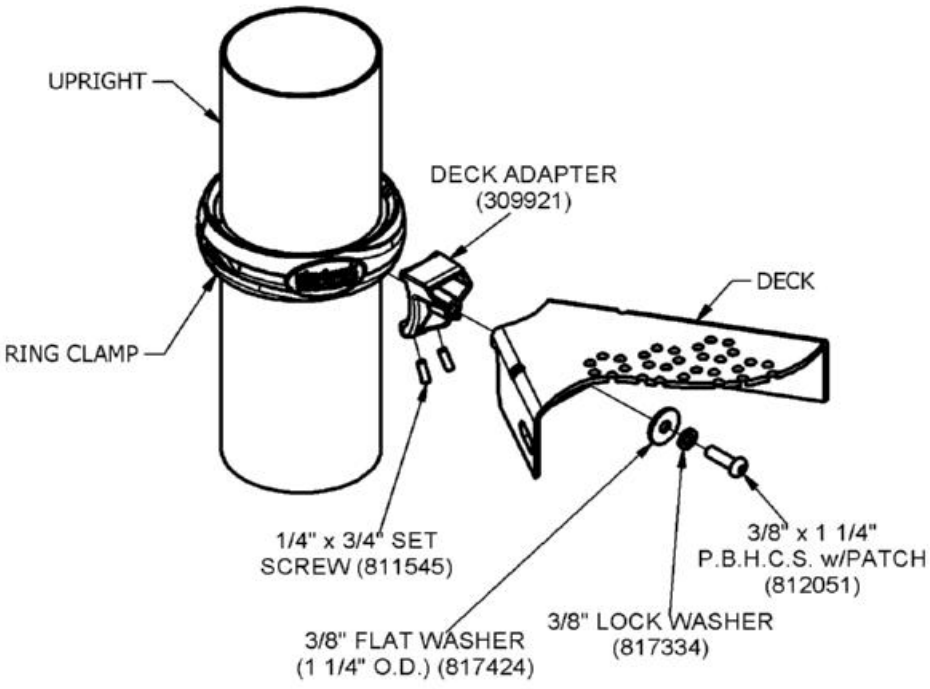
PLAN VIEW

71000 Square Deck; 71001 Triangle Deck; 71002 Isosceles Deck



061

NOTE: DECK ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



447

SuperMax Play Systems

71003 Semi-Hex Deck

Parts List		
DESCRIPTION	QTY	PART NUMBER
SEMI-HEX DECK	1	309938
DECK ADAPTER	5	309921
-----HARDWARE COMPLETE-----	1	309942
3/8" FLAT WASHER (1 1/4" O.D.)	9	817424
3/8" LOCKWASHER	9	817334
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	5	812051
1/4" x 3/4" SET SCREW	10	811545
3/8" T-Nut	4	804556
3/8" x 3/4" P.B.H.C.S. w/Patch	4	812052

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Uprights in dug holes at appropriate height per Upright installation instructions. Get the height required for the deck from the Plan View Diagram. Use a felt-tip marker to mark the top of the Ring Clamp on all uprights.

HINT: If this is the first deck of the structure, locate and concrete one upright only (preferably the most shared post, if this deck is part of a multi deck group), ensuring it is plumb and at the right height. After it has had a chance to set, place one corner of the deck against the post and mark the location of the adjacent post. Concrete the second post. Continue this procedure for all five posts while leaving the deck on the ground. The deck has been used as its own template, and the deck is now easily attached as its uprights are already in place.

2. Loosely attach all Ring Clamps to the uprights. Refer to the seperate Ring Clamp Installation sheet.

3. Attach Deck Adapters to the Ring Clamps using 1/4" x 3/4" set screw. Do not overly tighten set screws. Deck Adapters should still rotate on Ring Clamp. Attach Decks to the Deck Adapter using 3/8" x 1 1/4" P.B.H.C.S., 3/8" flatwasher and 3/8" lockwasher. Plumb and level uprights and brace in position.

4. Using a level, and holding one Ring Clamp as a constant, adjust the other four clamps so that the deck is completely level. At this point, if you have more decks to attach, lay each succeeding deck on the ground against the previous deck's two posts, and mark the missing footings to be dug. Continue attaching decks in this manner. Tighten set screws after all decks are attached.

5. Attach side-by-side decks to one another using 3/8" x 3/4" P.B.H.C.S., 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut as shown in Detail 061.

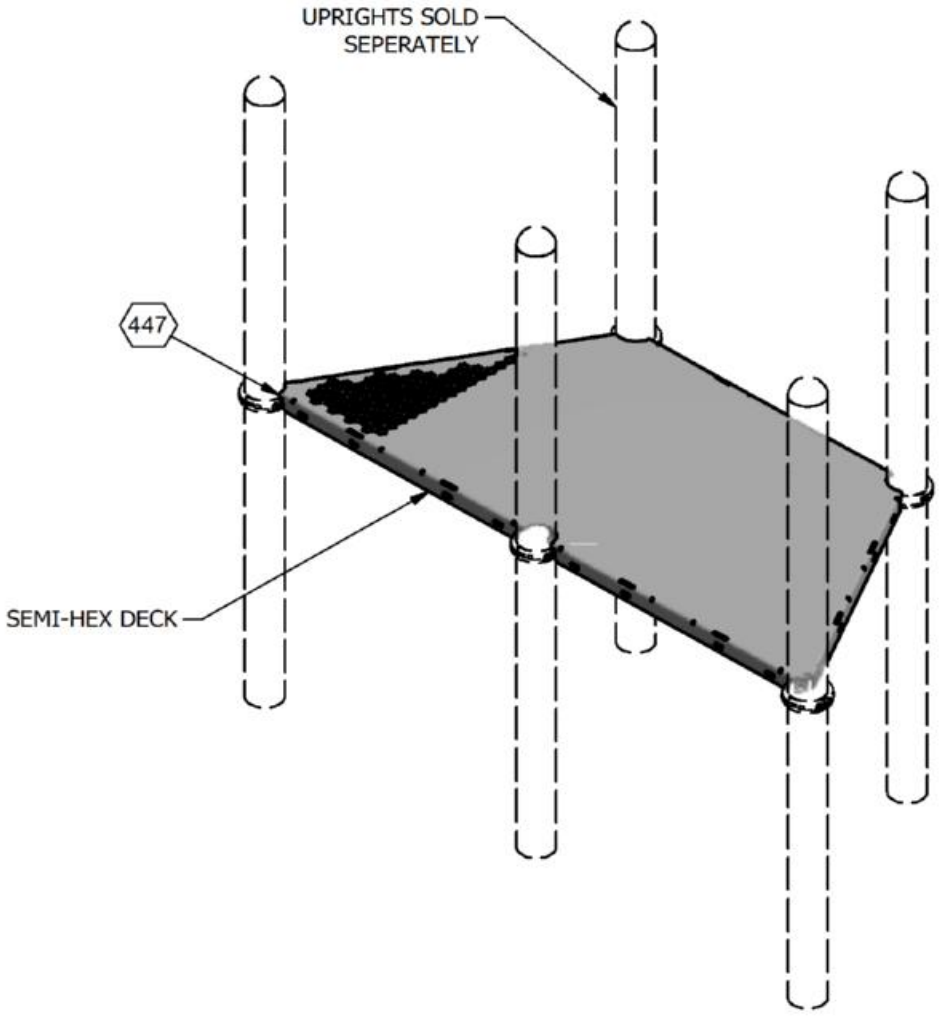
6. When all decks are completed and correct, pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow curing at least 48 hours before use.

When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Deck Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***.

71003 Semi-Hex Deck

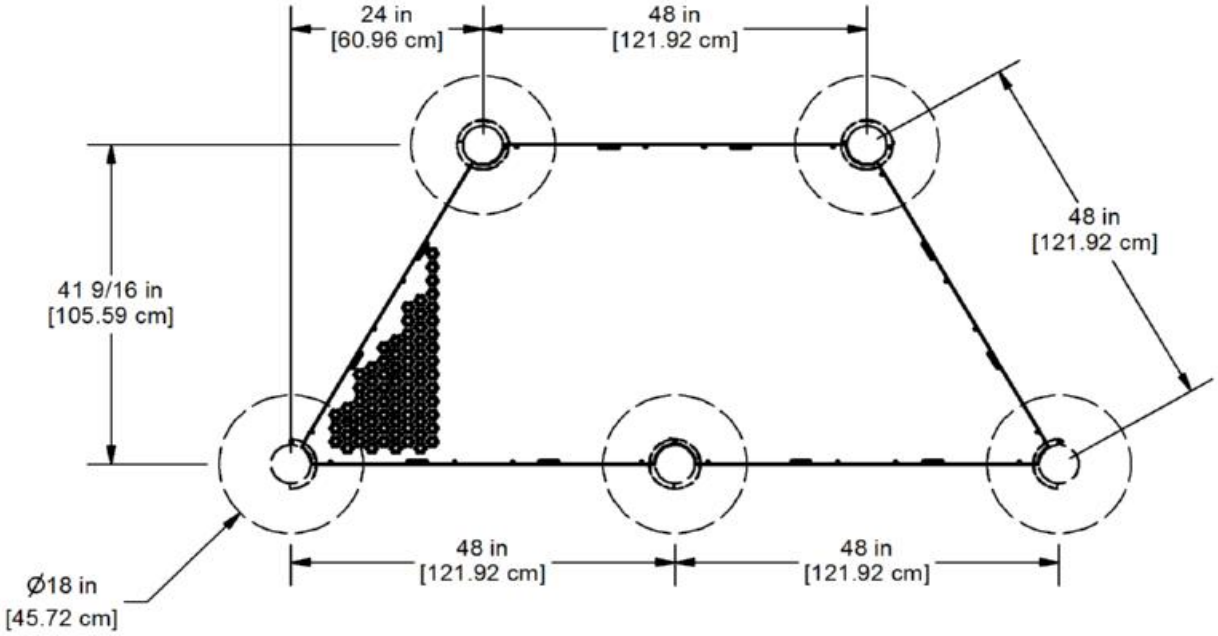
Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

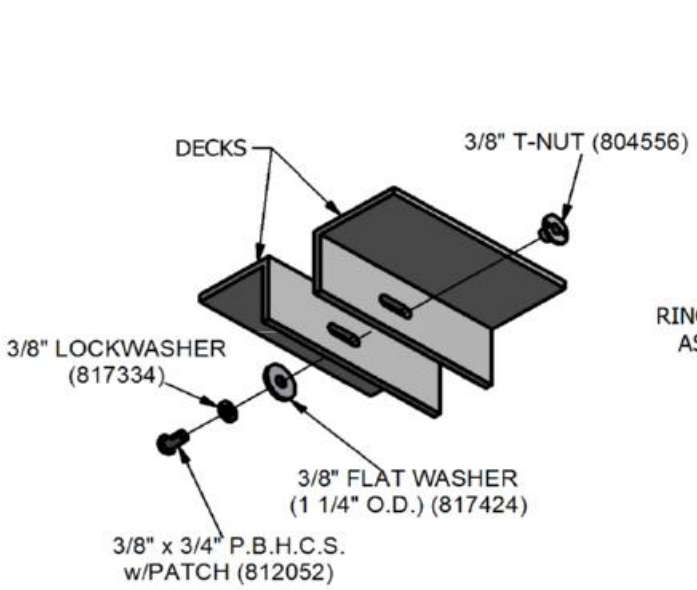


FINISHED ASSEMBLY

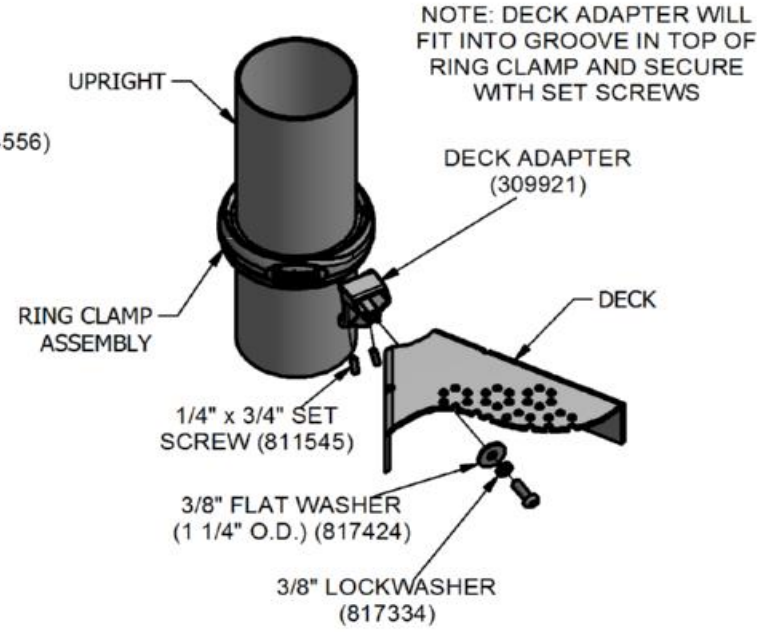
71003 Semi-Hex Deck



71003 Semi-Hex Deck



061



447

SuperMax Play Systems

71013 Metal Handhold Barrier

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	ENTRANCE BARRIER WALL	1	309967
2	PIPE ADAPTER	2	309915
	-----HARDWARE COMPLETE-----	1	309969
	1/4" x 3/4" SET SCREW	4	811545
	3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
	3/8" FLAT WASHER	2	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	3/8" LOCKWASHER	2	817334
	3/8" BARREL NUT	2	804804
	3/8" LOCK NUT	4	804353

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck to receive the Metal Handhold Barrier. Refer to your Top View drawing for location.

2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the Deck. Be careful not to expose the steel.

3. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Assembly.

4. Slip Pipe Adapters onto Handhold Barrier attachment pipes then hook Pipe Adapters onto Ring Clamp. Connect Pipe Adapter to Ring Clamp using 1/4" x 3/4" Set Screws as shown in Detail 448. Connect Handhold Barrier to Pipe Adapter using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, 3/8" Flat Washer, and 3/8" Barrel Nut as shown in Detail 448.

5. Attach Handhold Barrier to front of deck using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1-1/4" O.D.), and 3/8" Lock Nut as shown in Detail 318.

6. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

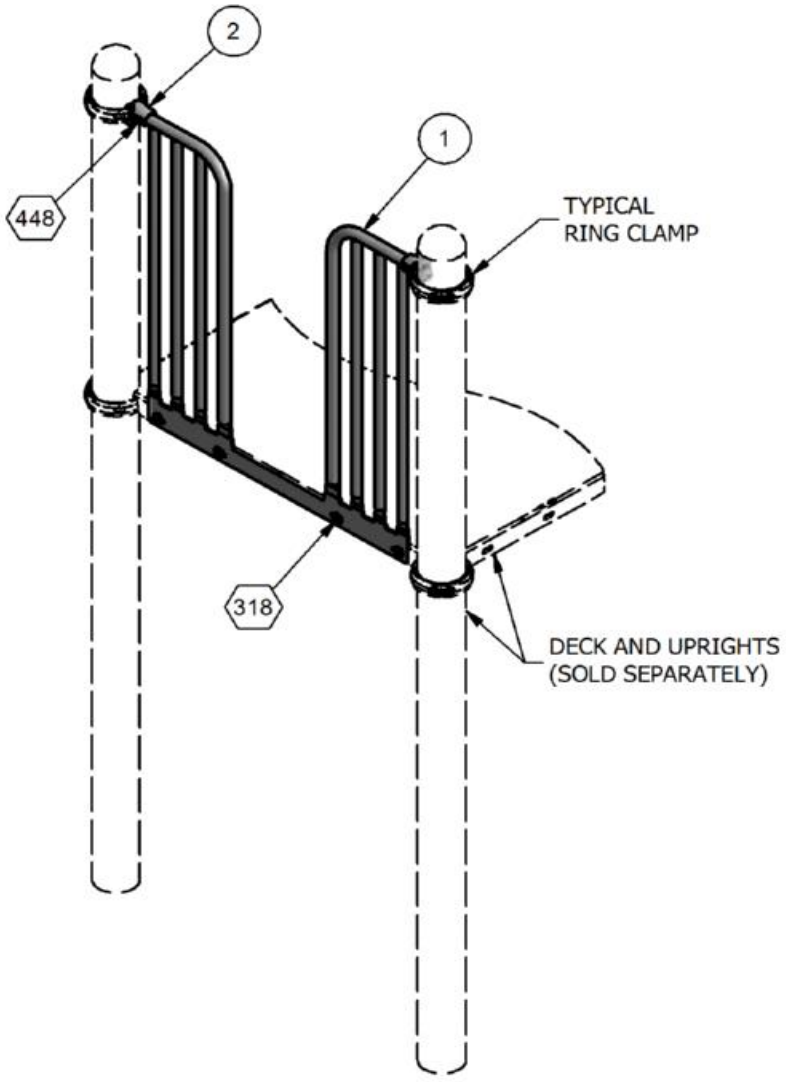
7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

71013 Metal Handhold Barrier

Note: To cushion accidental falls by children, Park Structures strongly recommends that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

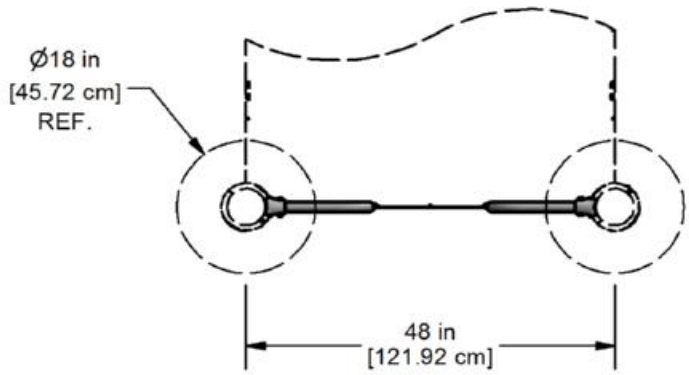
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



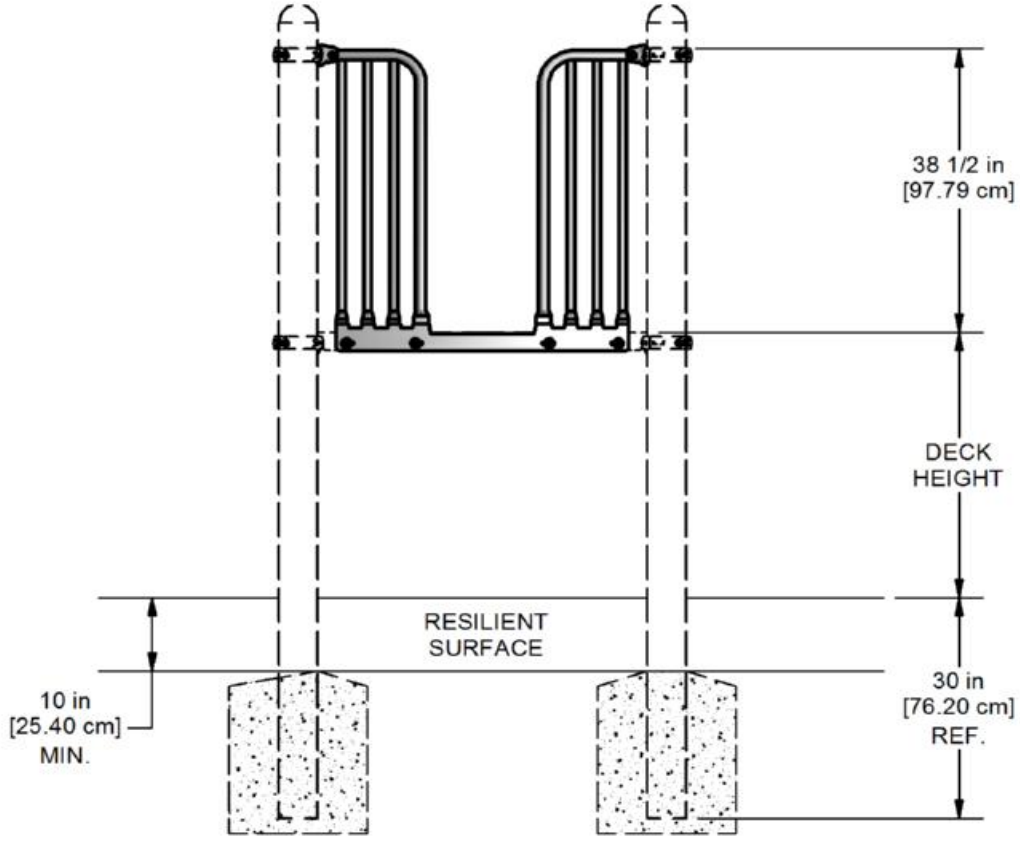
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

71013 Metal Handhold Barrier

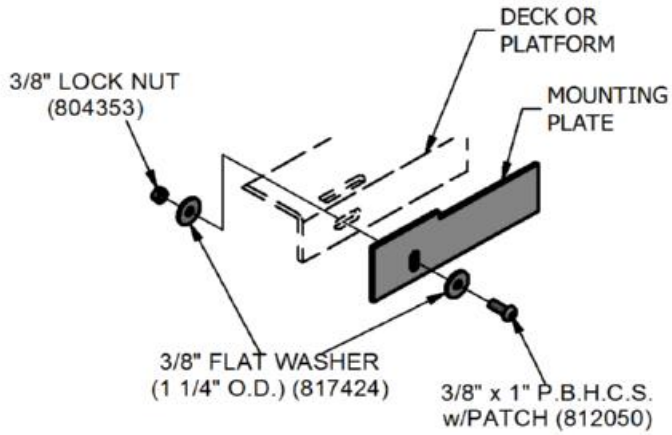


PLAN VIEW

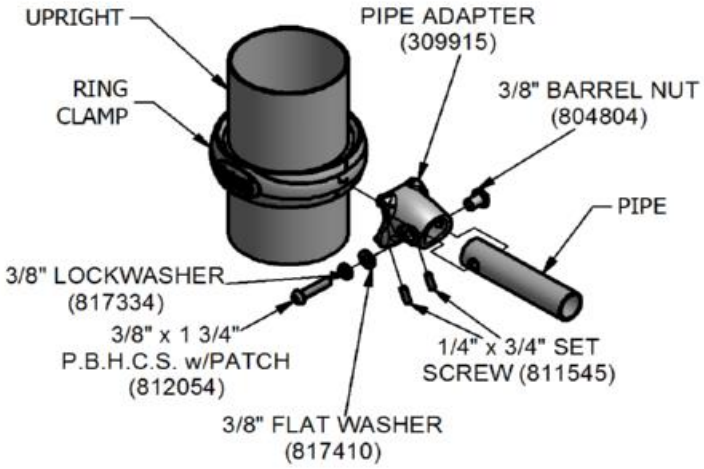


ELEVATION VIEW

71013 Metal Handhold Barrier



318



448

SuperMax Play Systems

71016 Ramp Deck to Ground

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	RAMP	2	311030
2	RAMP BARRIER	2	311041
3	HAND HOLD	2	176728
4	CROSS BAR	1	310032
5	TRANSITION PLATE	1	303867
6	ALUMINUM COLLAR	2	301605
7	PANEL ADAPTER	2	309919
8	VERTICAL ADAPTER	4	309917
	-----HARDWARE COMPLETE-----	1	311042
	3/8" x 1" P.B.H.C.S. w/PATCH	32	812050
	3/8" FLAT WASHER (1 1/4" O.D.)	24	817424
	3/8" LOCK WASHER	26	817334
	3/8" FLAT WASHER	36	817410
	3/8" T-NUT	8	804556
	3/8" LOCK NUT	12	804353
	3/8" ACORN NUT	16	804002
	3/8" BARREL NUT	4	804804
	3/8" x 3/8" SET SCREW	2	811549
	1/4" x 3/4" SET SCREW	12	811545
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	8	812054
	3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Ramp, and dig footings at location and depth as shown.

2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.

3. Attach top of the Barriers to the Ring Clamps using Vertical Adapters as shown in Detail 569 & 570.

4. Attach Ramps to the existing deck as shown in Detail 573.

5. Attach the bottom of the Barriers to the sides of the Ramp as shown in Detail 572.

6. Attach lower end of Ramp to the existing Uprights using Crossbar, Aluminum Collar and Panel Adapters as shown in Detail 575. Ramp should be centered between uprights and secured by tightening set screws in collar.

7. Attach Transition Plate to the lower end of Ramp as shown in Detail 574

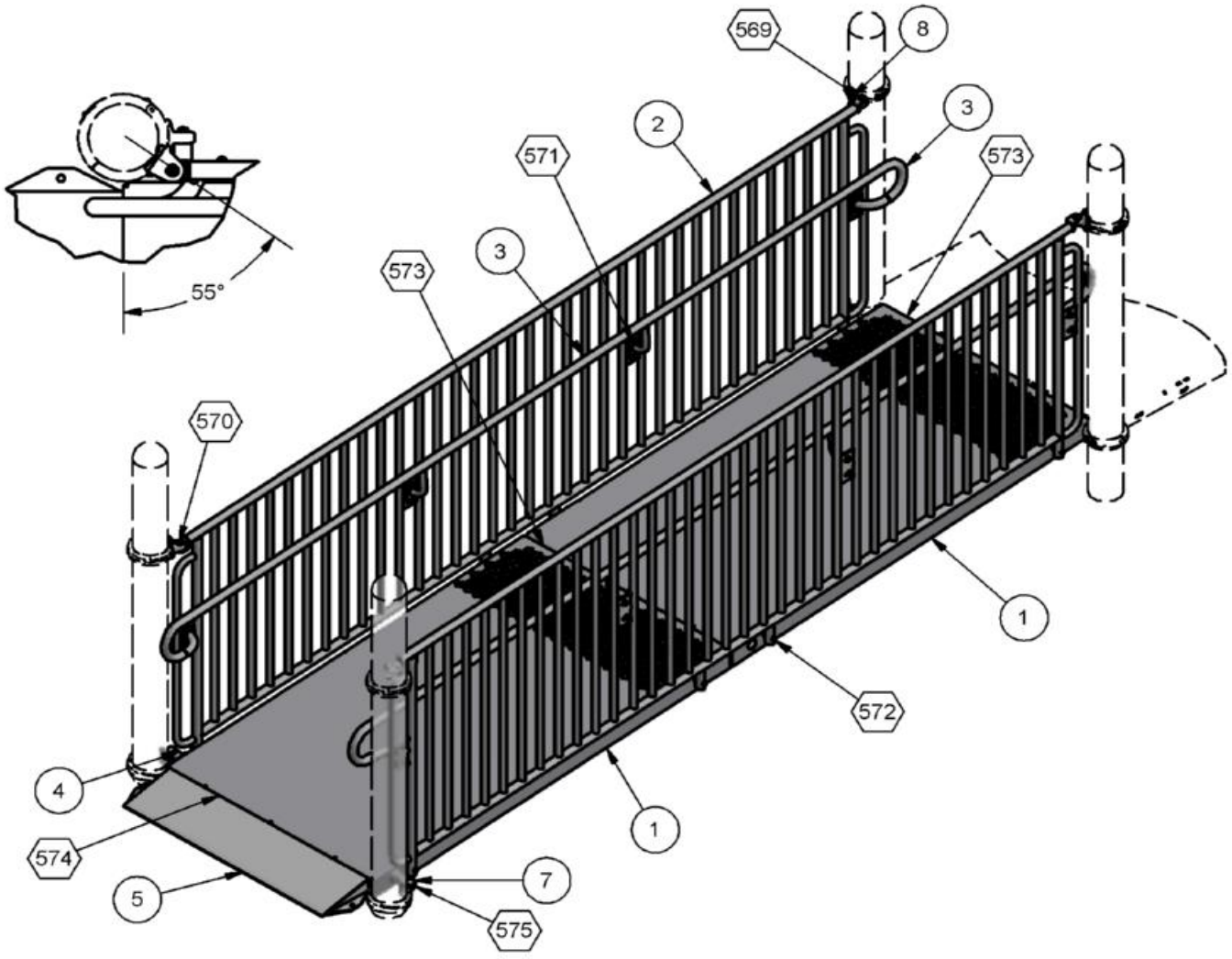
8. Attach Handrails to the Barriers using Detail 571.

71016 Ramp Deck to Ground

9. When the assembly is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed before allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

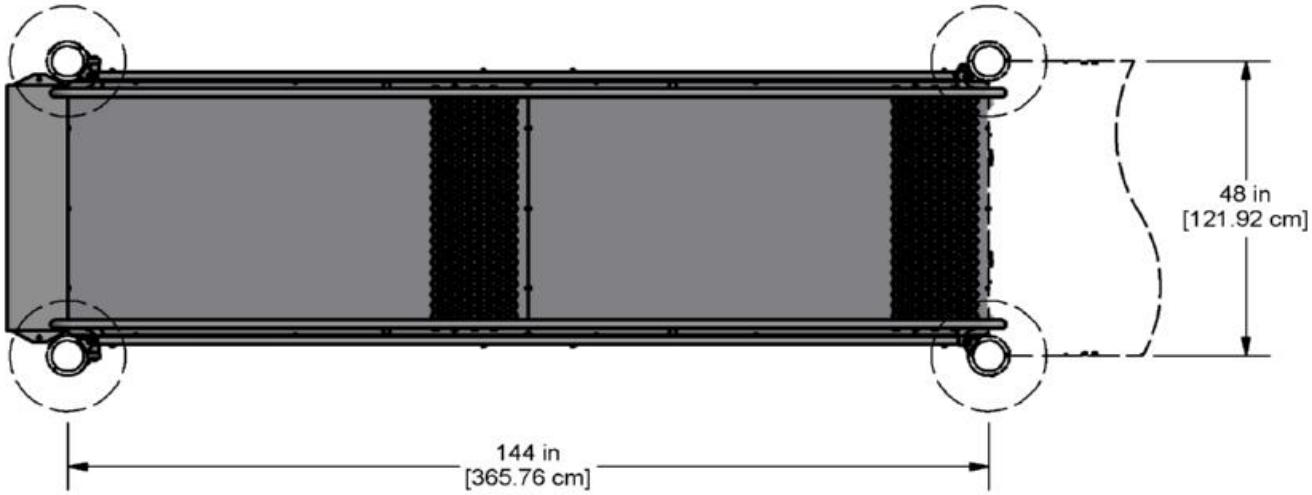
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

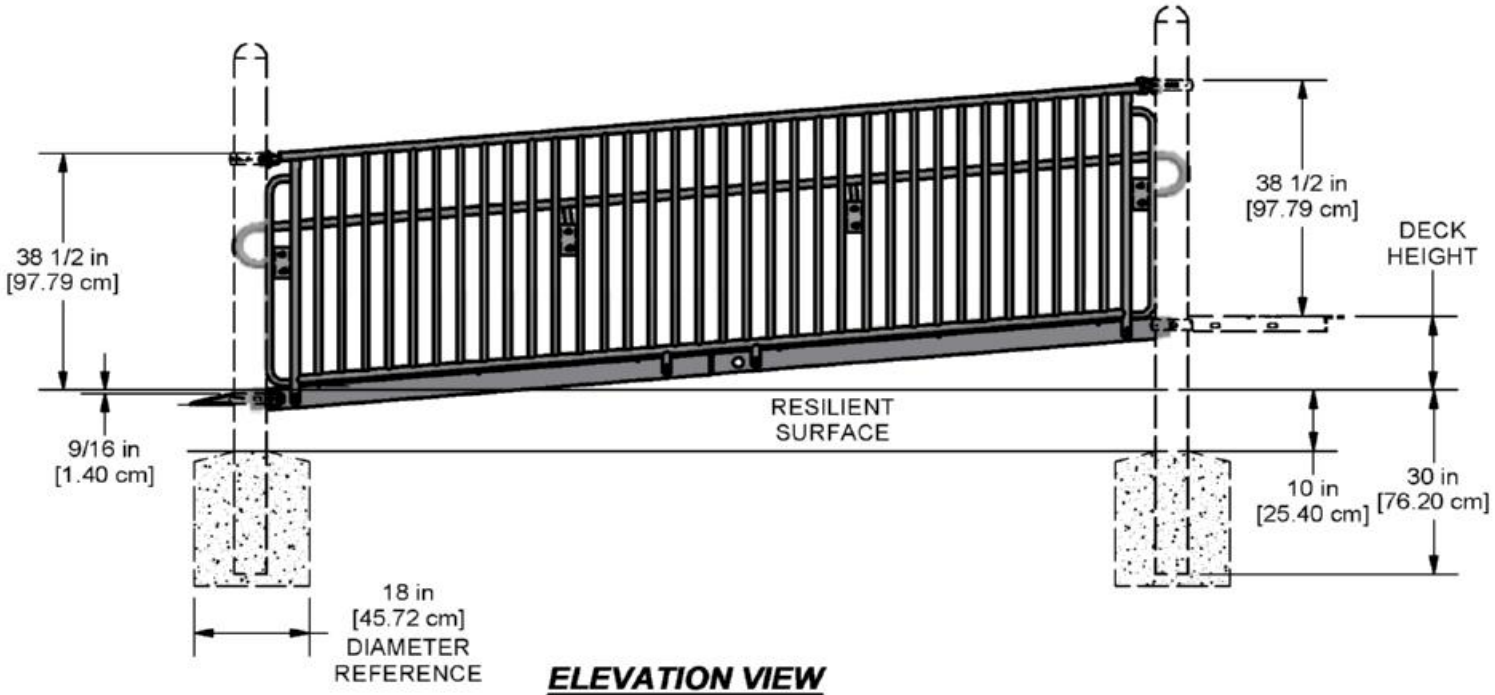


⬡ = INSTALLATION DETAIL

71016 Ramp Deck to Ground

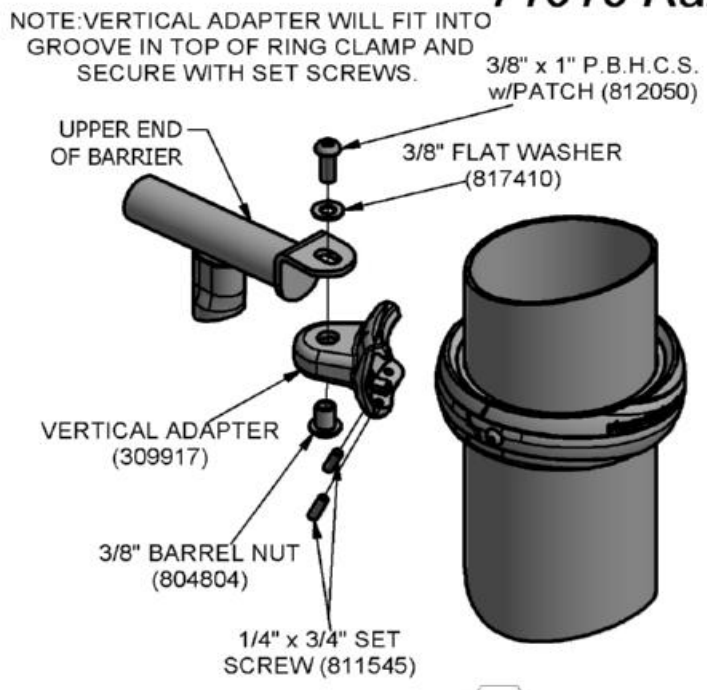


PLAN VIEW



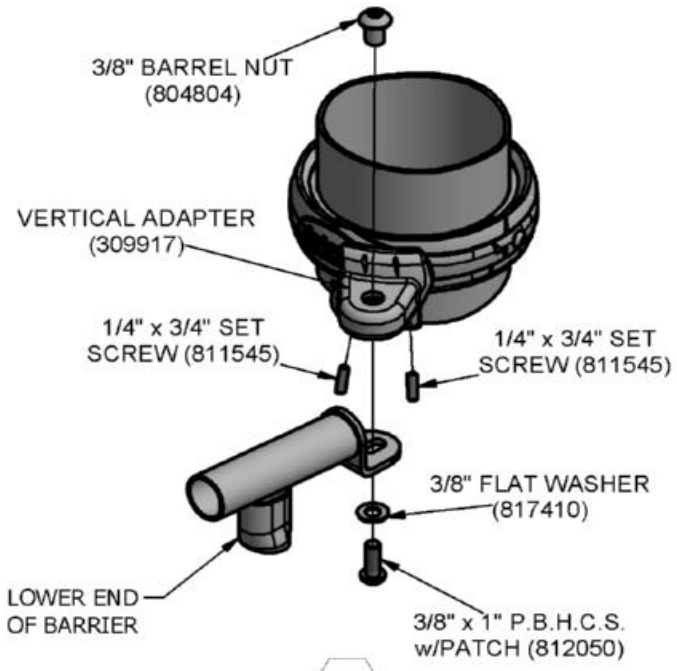
ELEVATION VIEW

71016 Ramp Deck to Ground

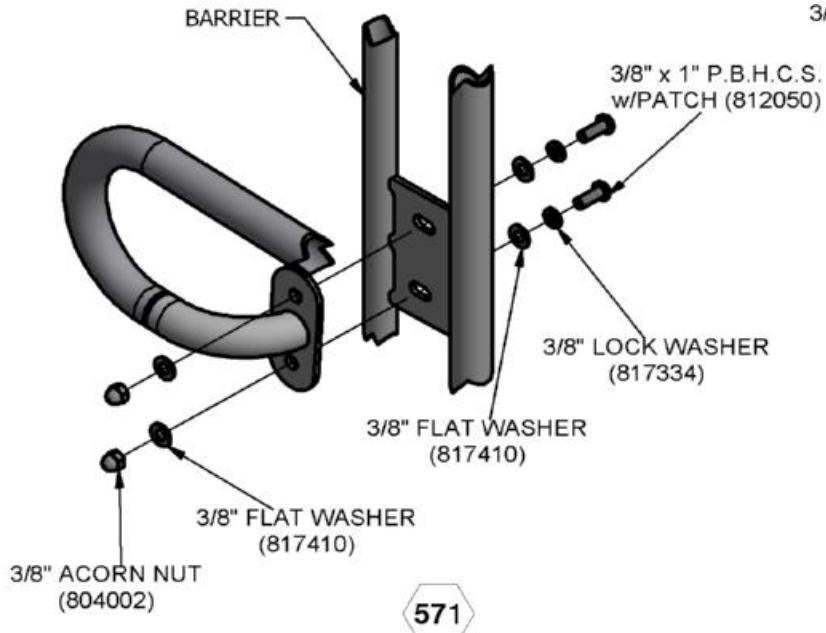


569

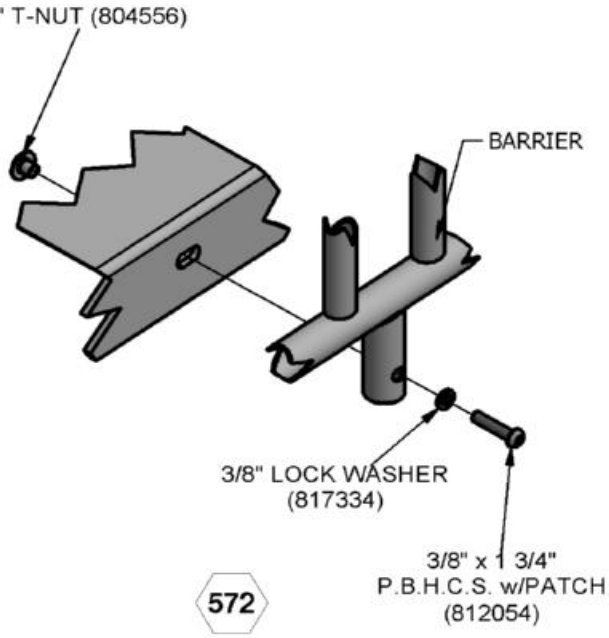
NOTE:VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



570

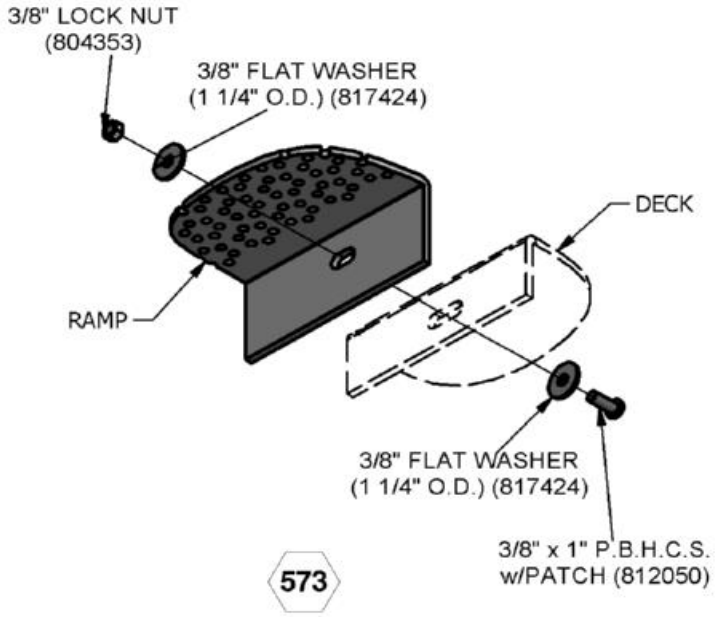


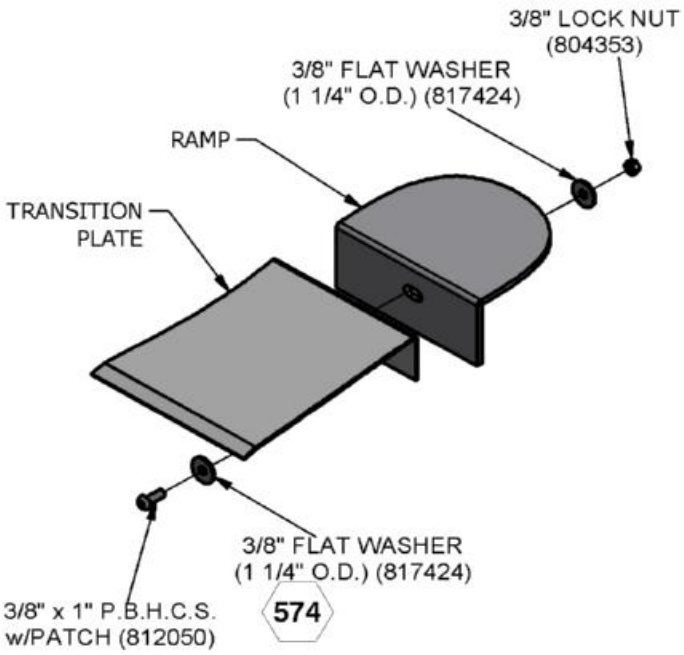
571

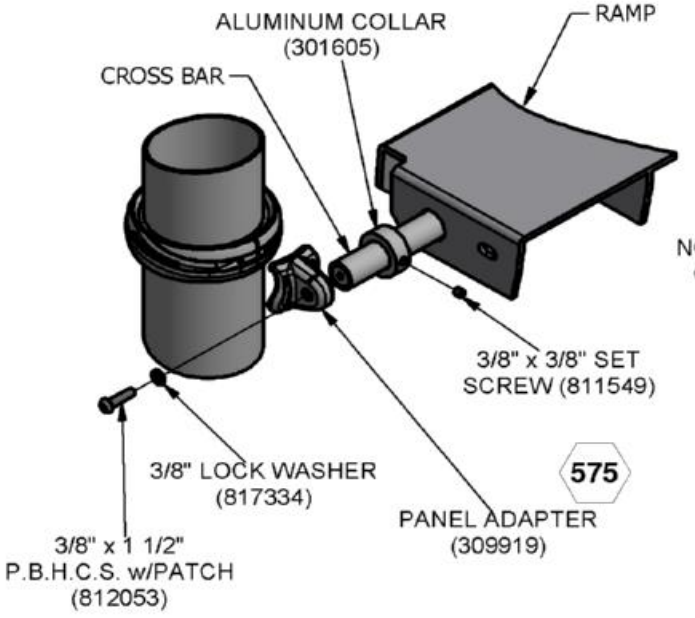


572

71016 Ramp Deck to Ground







NOTE:VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

Issued/Revised: 3/16/2023

SuperMax Play Systems

71018 Ramp Deck to Deck

Parts List		
DESCRIPTION	QTY	PART NUMBER
HAND HOLD	2	176728
VERTICAL ADAPTER	4	309917
RAMP	2	311030
RAMP BARRIER	2	311041
HARDWARE COMPLETE	1	311043
1/4" x 3/4" SET SCREW	8	811545*
3/8" x 1" P.B.H.C.S. w/PATCH	32	812050*
3/8" LOCK WASHER	24	817334*
3/8" FLAT WASHER	36	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	24	817424*
3/8" ACORN NUT	16	804002*
3/8" LOCK NUT	12	804353*
3/8" T-NUT	8	804556*
3/8" BARREL NUT	4	804804*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	8	812054*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

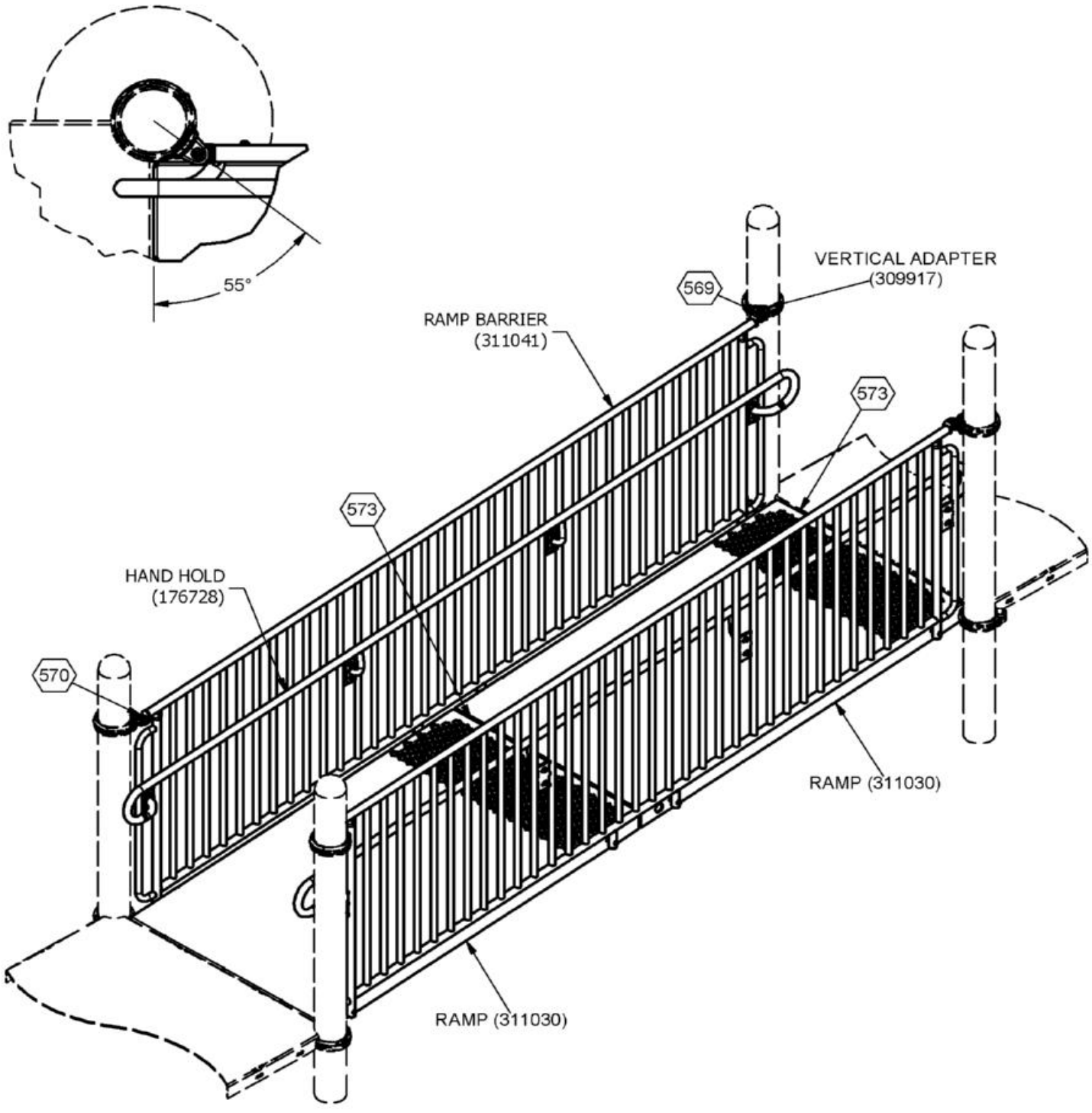
1. Determine which deck is to receive the Ramp, and dig footings at location and depth as shown.
2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.
3. Attach top of the Barriers to the Ring Clamps using Vertical Adapters as shown in Detail 569 & 570.
4. Attach Ramps to the existing deck as shown in Detail 573.
5. Attach the bottom of the Barriers to the sides of the Ramp as shown in Detail 572.
6. Attach Handrails to the Barriers using Detail 571.
7. When the assembly is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed before allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

71018 Ramp Deck to Deck



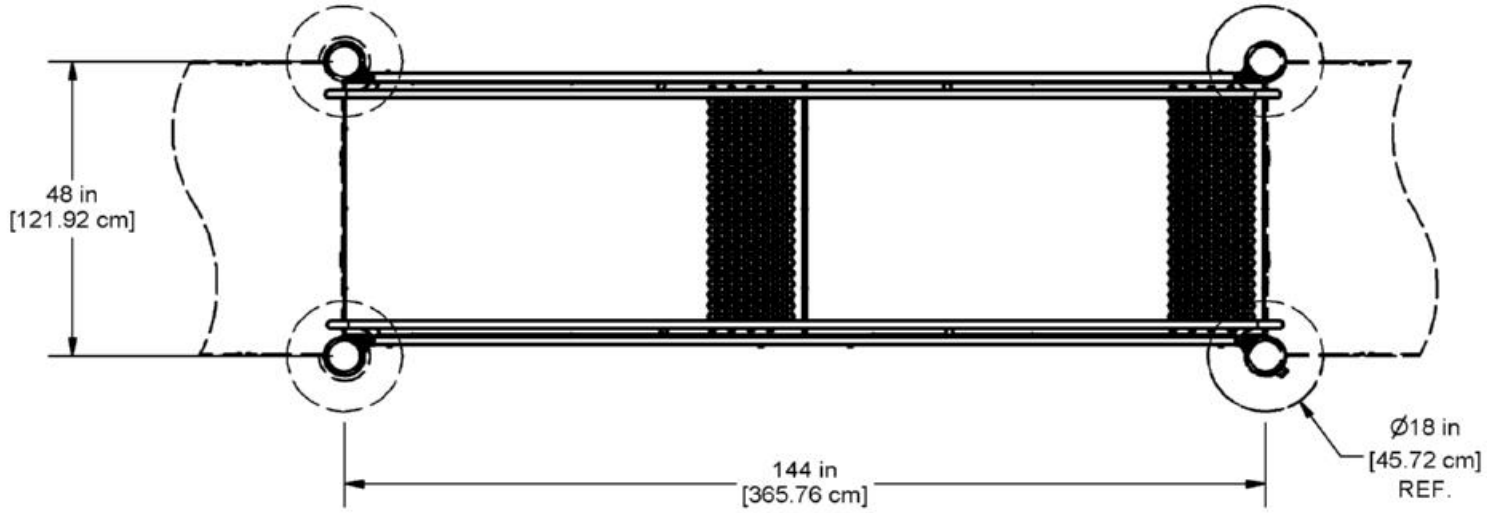
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

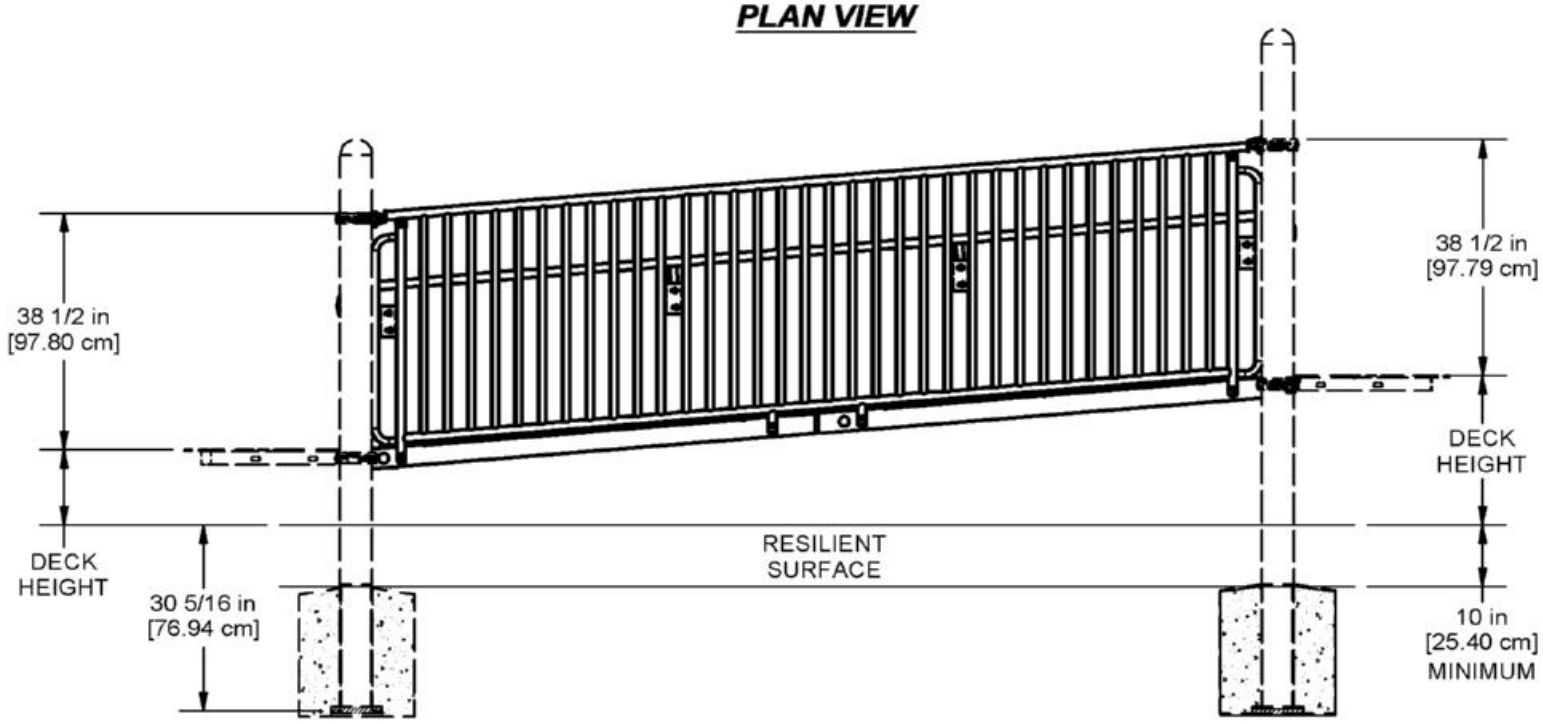
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 3/16/2023

71018 Ramp Deck to Deck



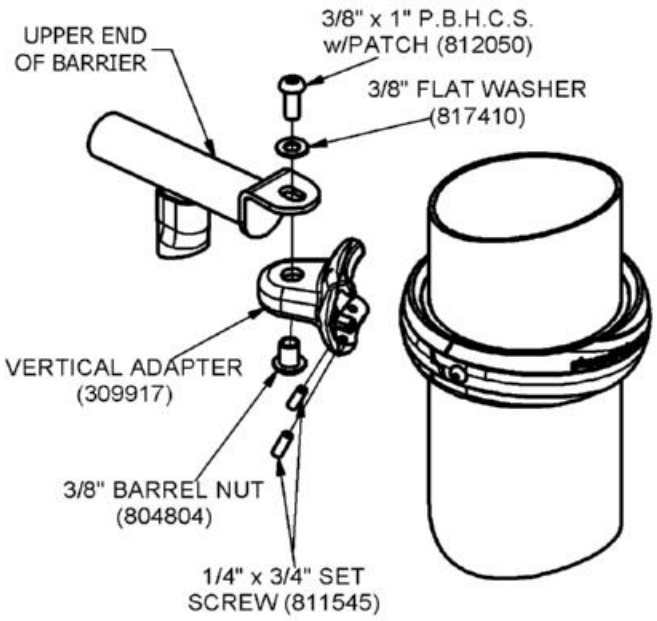
PLAN VIEW



ELEVATION VIEW

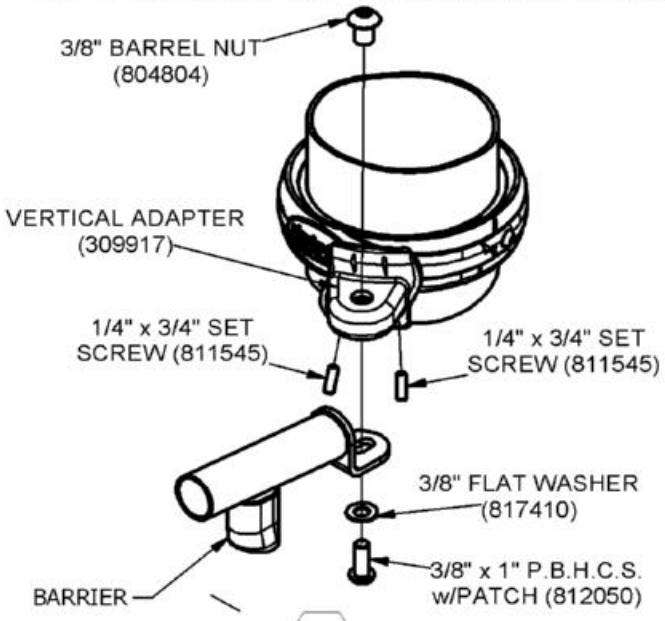
71018 Ramp Deck to Deck

NOTE: VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



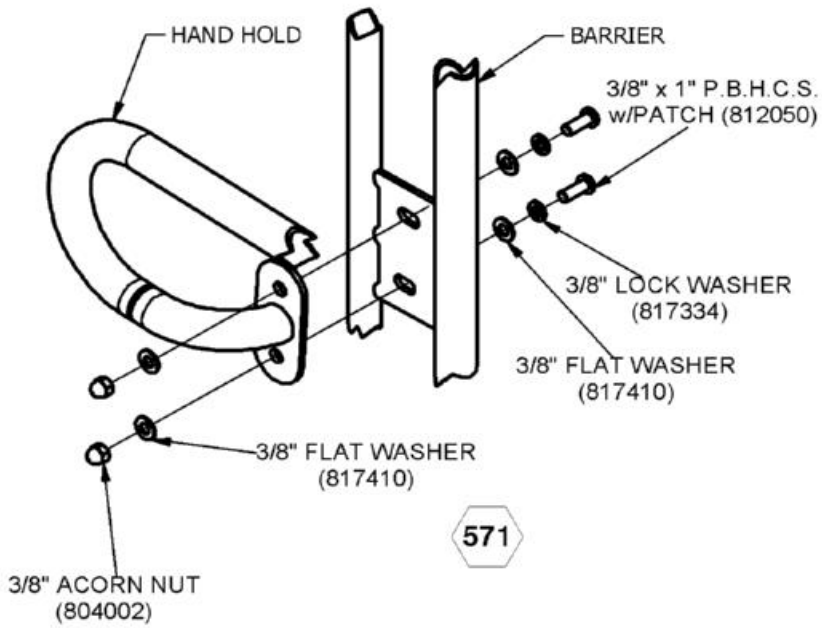
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NOTE:VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

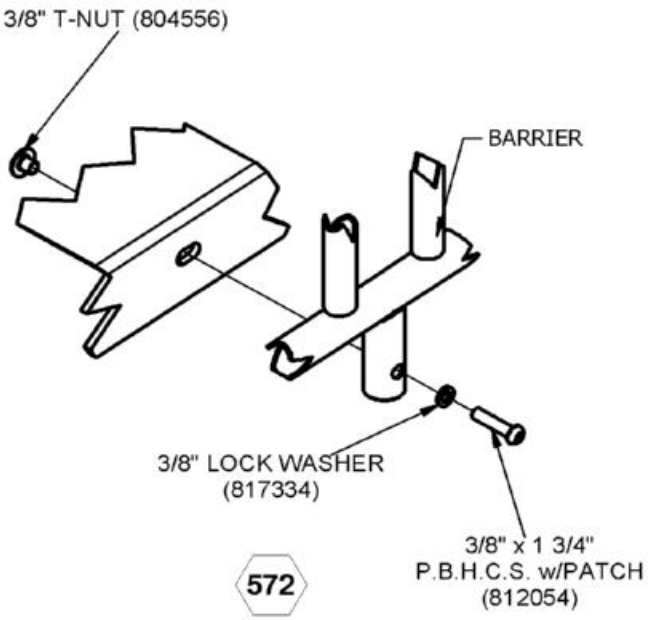


570

NOTE:VERTICAL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

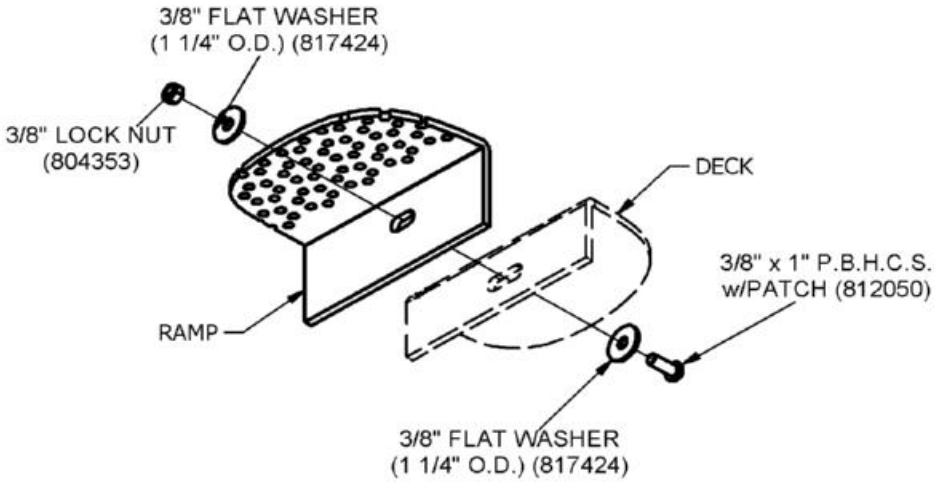


571



572

71018 Ramp Deck to Deck



573

SuperMax Play Systems

71022 Entry Archway

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	ENTRY ARCHWAY	1	309984
2	PIPE ADAPTER	2	309915
	-----HARDWARE COMPLETE-----	1	309985
	1/4" x 3/4" SET SCREW	4	811545
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
	3/8" FLAT WASHER	2	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	4	817424
	3/8" LOCK WASHER	2	817334
	3/8" BARREL NUT	2	804804
	3/8" LOCK NUT	2	804353

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Entry Archway, refer to your overhead drawing for location.

2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the deck. Be careful not to expose the steel.

3. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.

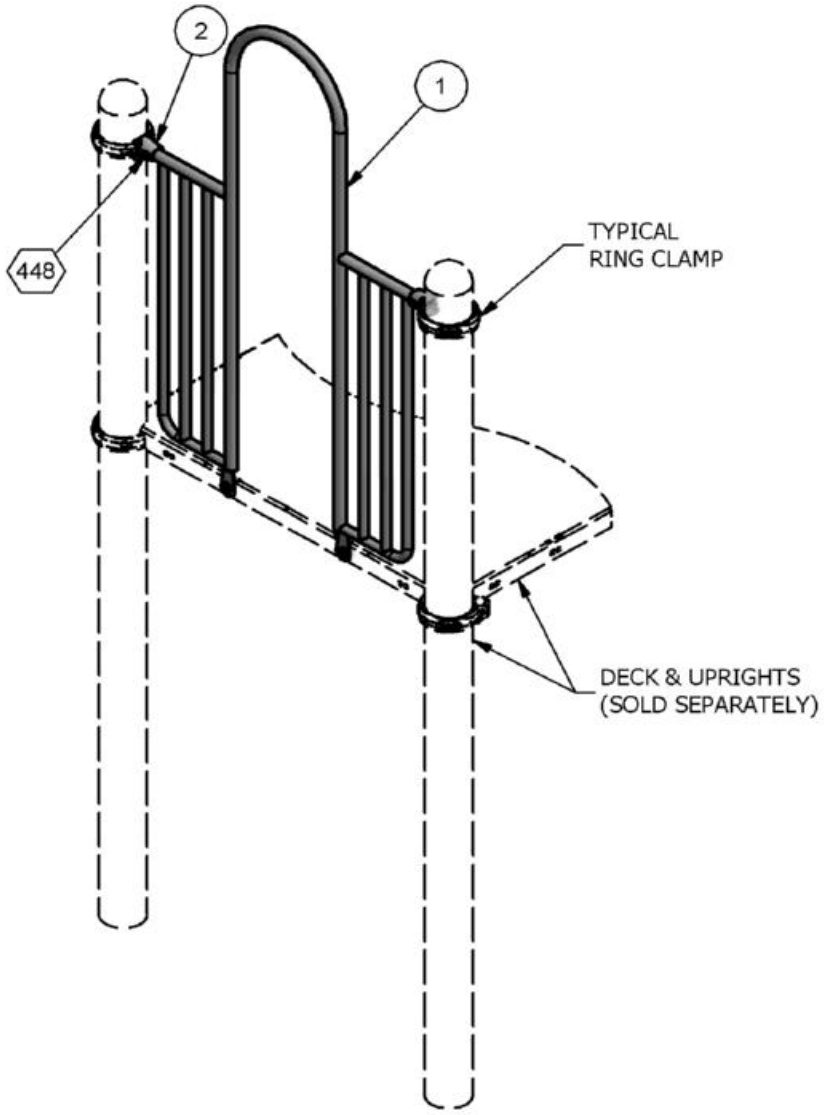
4. Place the tabs at the bottom of the Entry Archway into the slots on the deck. Slip the Pipe Adapters onto the Entry Archway attachment pipes, then move Entry Archway into position. Hook the Pipe Adapters onto the Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 448. Connect Entry Archway to Pipe Adapter using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, 3/8" Flat Washers and 3/8" Barrel Nuts as shown in Detail 448.

5. Attach the tabs at the bottom of Entry Archway to the holes on the side of the deck using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Nuts, and 3/8" (1 1/4" O.D.) Flat Washers as shown in Detail 026. Make sure Entry Archway is plumb. When the Entry Archway is plumb and level, tighten all fasteners.

When the assembly is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed before allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

71022 Entry Archway

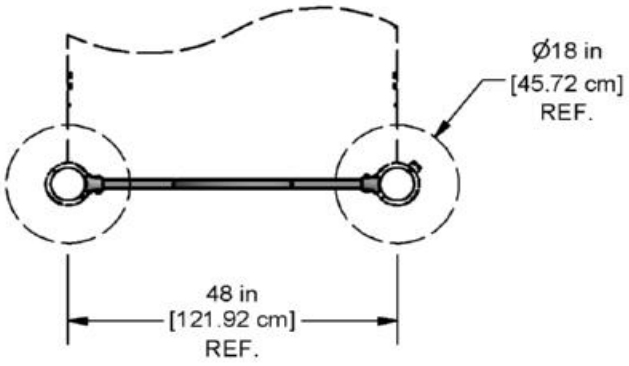
MAINTENANCE PROCEDURE:
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



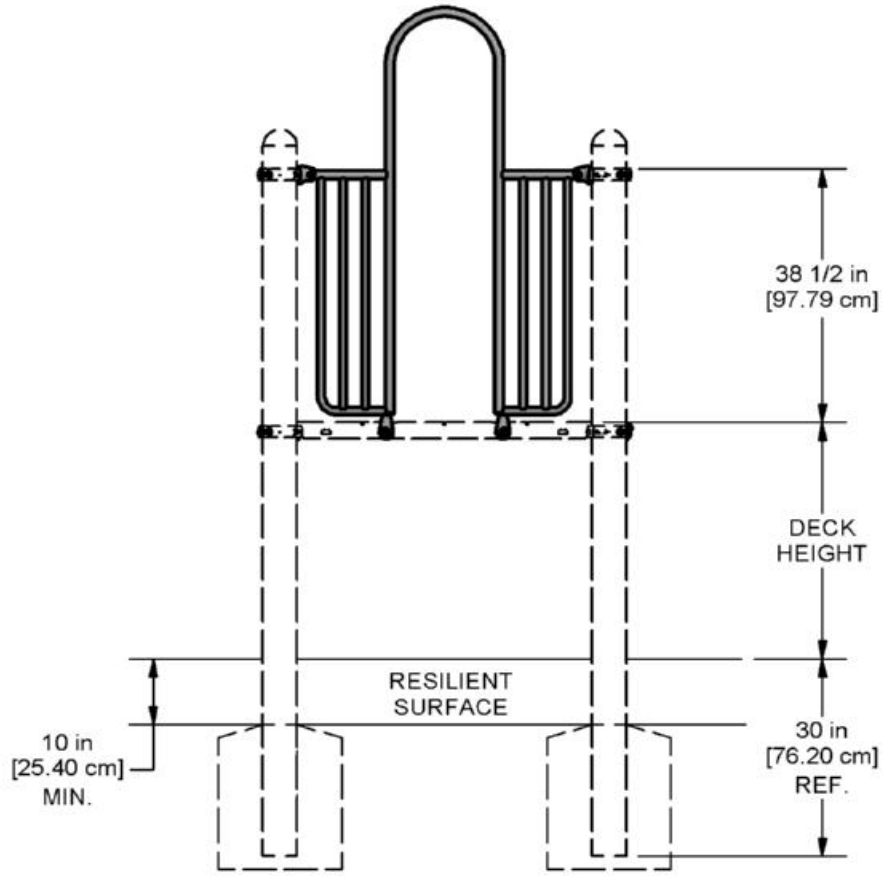
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

71022 Entry Archway

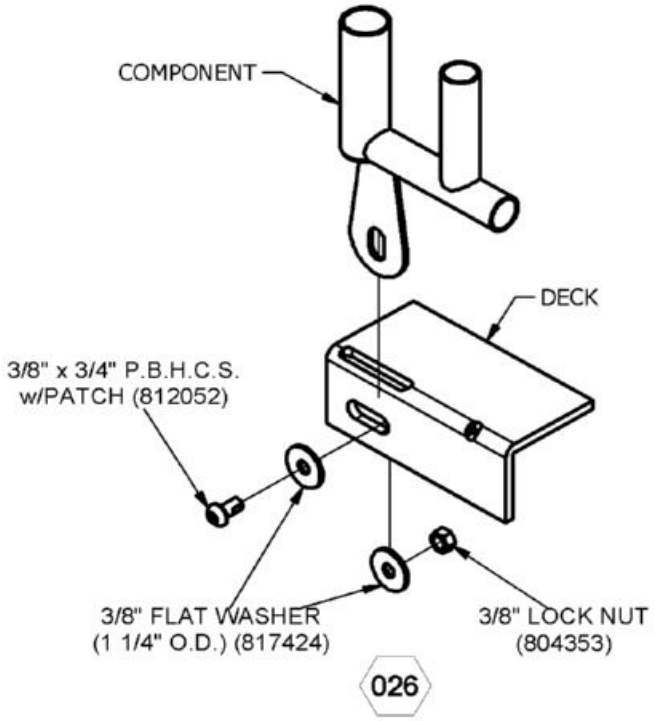


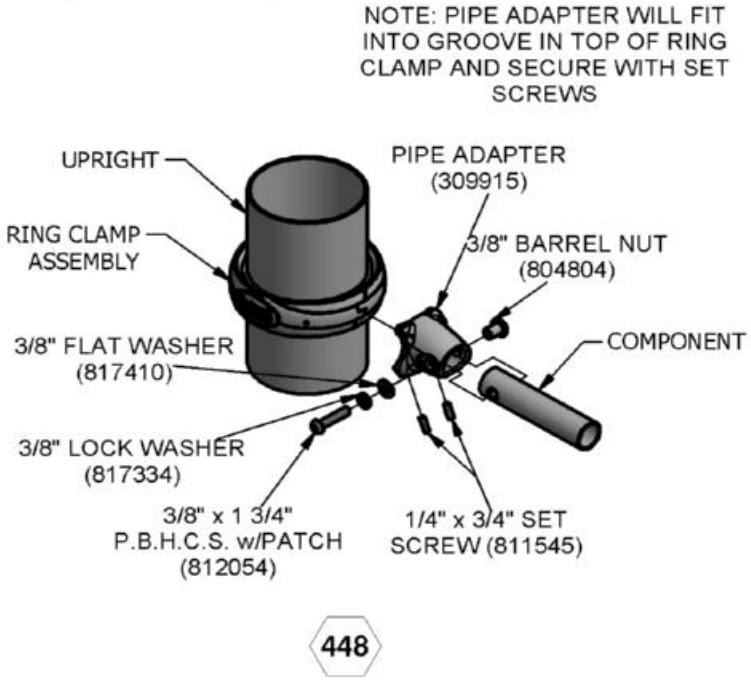
PLAN VIEW



ELEVATION VIEW

71022 Entry Archway





SuperMax Play Systems

71031 RING CLAMP ASSEMBLY

Parts List		
DESCRIPTION	QTY	PART NUMBER
RING CLAMP	1	309911
HARDWARE COMPLETE	1	309998
1/4" x 1" DRIVE RIVET	1	805302*
1/4" x 1 1/4" P.B.H.C.S.	1	812083*

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Locate uprights to receive Ring Clamp Assemblies (Refer to individual component installation sheets for clamp heights).

2. Attach Ring Clamp to upright using 1/4" x 1 1/4" PBHCS. Tighten screw only enough to hold the clamps position on the upright. Adjustment may be neccasary. See Detail 452.
IMPORTANT: Orientation of bolt is critical.

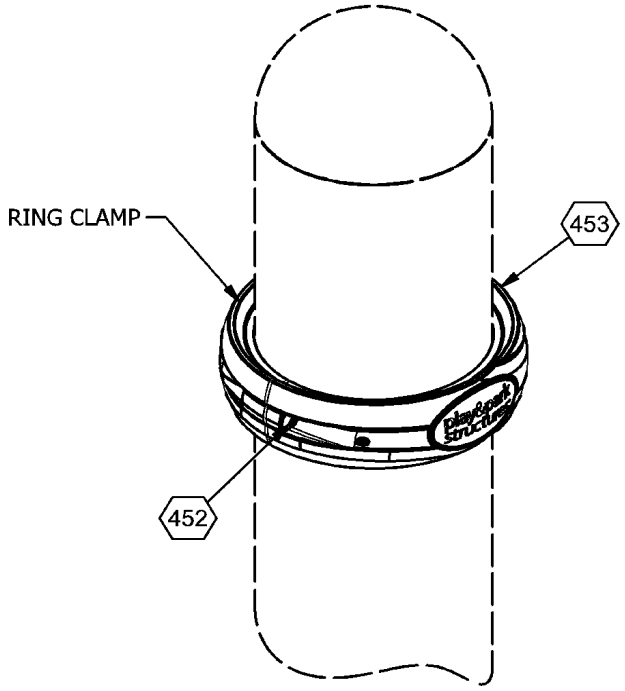
3. Install required components to the attaching to the Ring Clamp. See Top View and Seperate component installation sheets.

4. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. A 1/4" diameter hole must be drilled into the clamp and upright to receive drive rivet. Use Pre-determined drill points on ring clamp. See Detail 453. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment

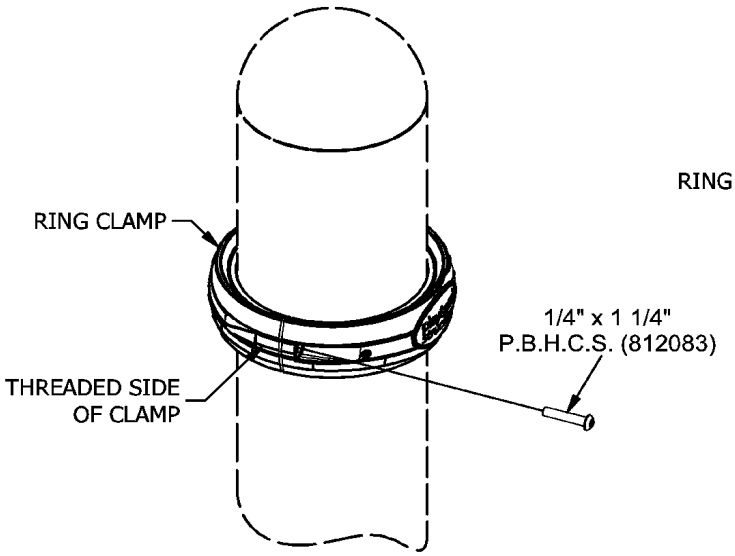
UPRIGHT AND CAP
SOLD SEPERATELY



FINISHED ASSEMBLY

⬡ = INSTALLATION DETAIL

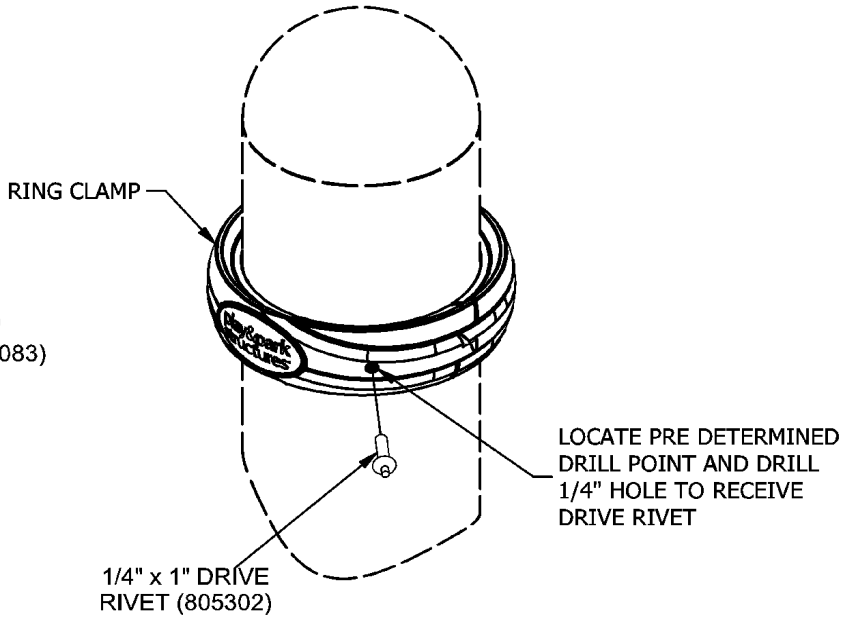
71031 RING CLAMP ASSEMBLY



NOTE: THE USE OF LOCTITE IS IMPORTANT.

IMPORTANT: ORIENTATION OF BOLT IS CRITICAL.

452



453

SuperMax Play Systems

Climb-A-Round - Attachment
71208 (0'-8", 1'-0", & 1'-4"); 71209 (2'-0"); 71210 (2'-8")

Parts List					
ITEM	DESCRIPTION	71208	71209	71210	PART NUMBER
1	CLIMB-A-ROUND	1	1	1	306641
2	VERTICAL LADDER	1	0	0	310117
2	VERTICAL LADDER	0	1	0	310120
2	VERTICAL LADDER	0	0	1	310123
3	PIPE ADAPTER	2	2	2	309915
4	RING HALF CLAMP	8	8	8	309913
	------HARDWARE COMPLETE------	1	1	1	310185
	1/4" x 3/4" SET SCREW	4	4	4	811545
	1/4" x 1" DRIVE RIVET	8	8	8	805302
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	16	16	16	812051
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	2	2	812054
	3/8" FLAT WASHER	18	18	18	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	32	32	32	817424
	3/8" LOCKWASHER	2	2	2	817334
	3/8" BARREL NUT	2	2	2	804804
	3/8" HEAVY HEX NUT	16	16	16	804200

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which four uprights are to receive the Climb-A-Round. Refer to your Top View drawing for location. Dig footings at location and depth as shown.

2. Mark positions of Ring Clamps and Ring Half Clamps on the Upright Posts at desired height. Maximum clamp height over the deck should be 45 1/2". HORIZONTAL LADDER SHOULD NOT BE ATTACHED TO ANY DECK WHICH IS HIGHER THAN 32" FOR 5-12 YEARS-OLD OR 16" FOR 2-5 YEARS-OLD.

3. Loosely attach all Ring Clamps to the uprights. Refer to the seperate Ring Clamp Installation sheet.

4. To attach the Vertical Ladder: Slip Pipe Adapters over Vertical Ladder attachment pipes, then, placing Vertical Ladder legs into dug holes, hook Pipe Adapters onto Ring Clamps. Attach using 1/4" x 3/4" Set Screws as shown in Detail 448. Attach Pipe Adapter to Vertical Ladder using 3/8" x 1-3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut as shown in Detail 448. Note: For 0'-8" & 1'-0" deck heights use 1'-4" Vertical Ladder, cut 8" off of legs for 0'-8" deck height and cut 4" off legs for 1'-0" deck height.

5. To attach the Climb-A-Round: With sufficient manpower, lift the Climb-A-Round into position and attach to Upright Posts using Ring Half Clamps, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Flat Washer (1 1/4" O.D.) and 3/8" Heavy Hex Nut as shown in Detail 475. Provide vertical support to prevent the Ring Clamps from sliding down the upright posts.

Climb-A-Round - Attachment
71208 (0'-8", 1'-0", & 1'-4"); 71209 (2'-0"); 71210 (2'-8")

6. When the entire assembly is plumb and level, tighten all fasteners. Pour concrete footings within 4" of the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

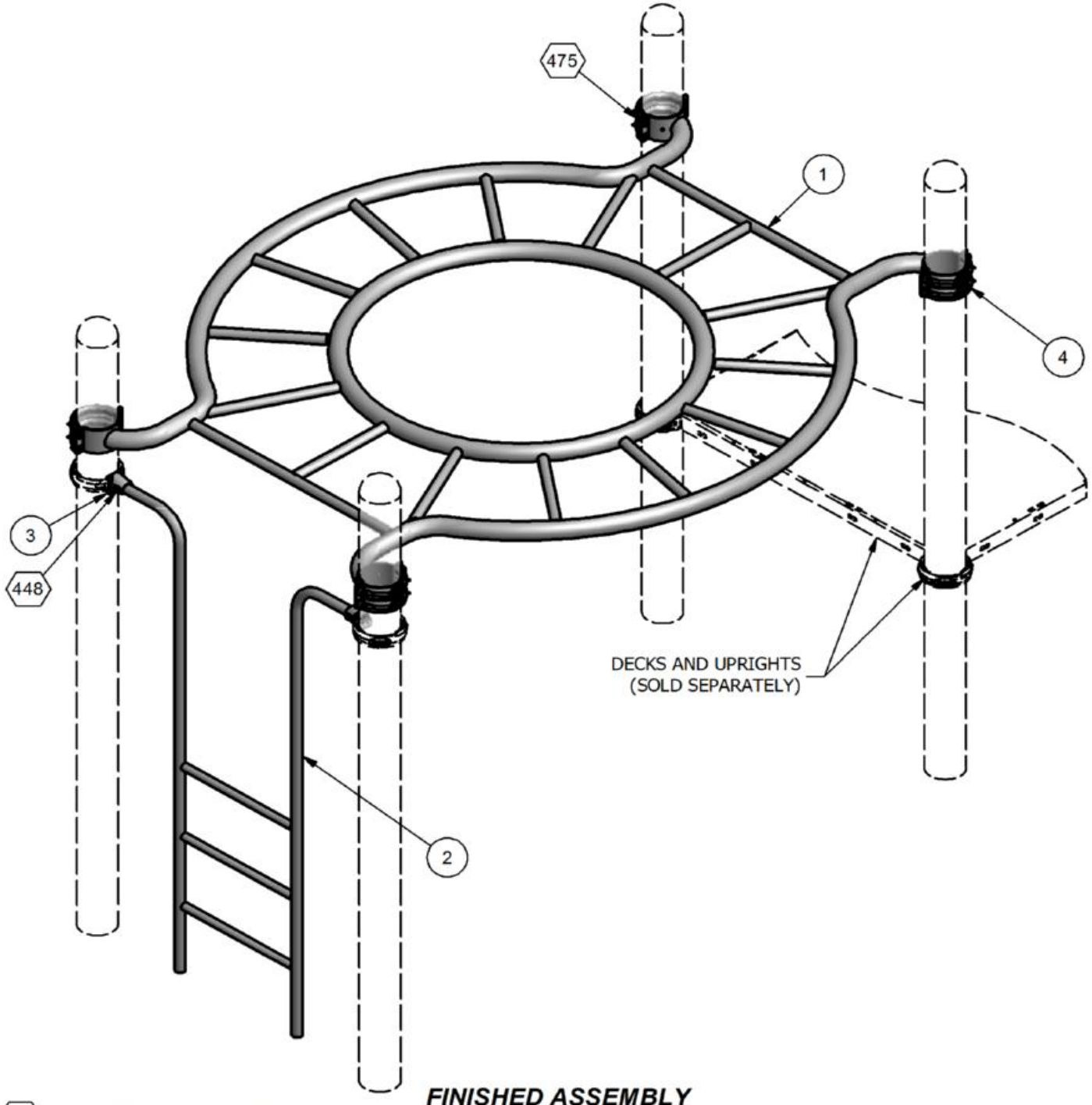
7. When structure is finished and satisfactory, tighten all fastener and install Drive Rivets in all clamps to ensure clamps cannot slide down the posts. See Ring Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Also, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety Guidelines.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

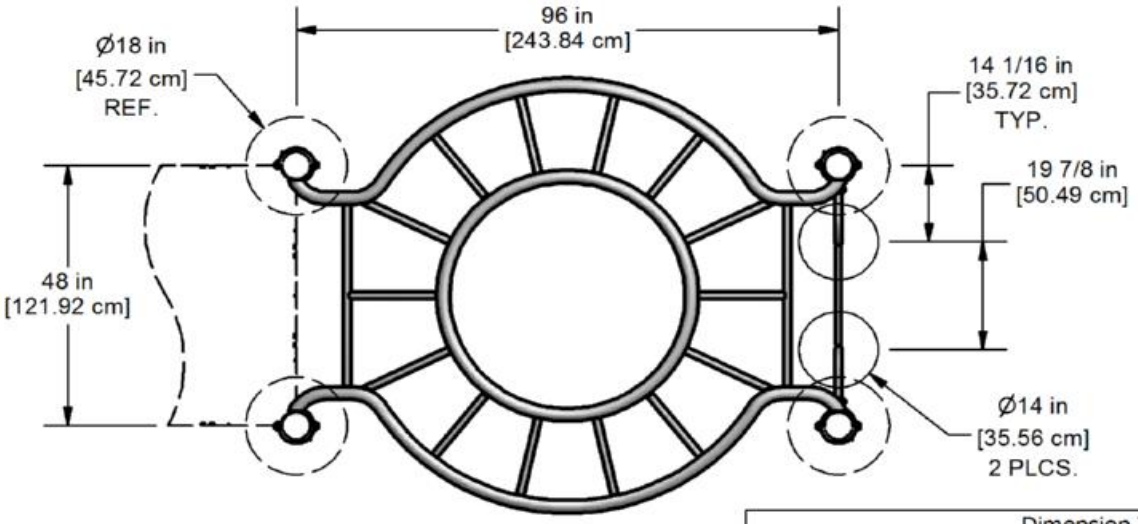
Climb-A-Round - Attachment
71208 (0'-8", 1'-0", & 1'-4"); 71209 (2'-0"); 71210 (2'-8")



FINISHED ASSEMBLY
71210 SHOWN

⬡ = INSTALLATION DETAIL

Climb-A-Round - Attachment
71208 (0'-8", 1'-0", & 1'-4"); 71209 (2'-0"); 71210 (2'-8")

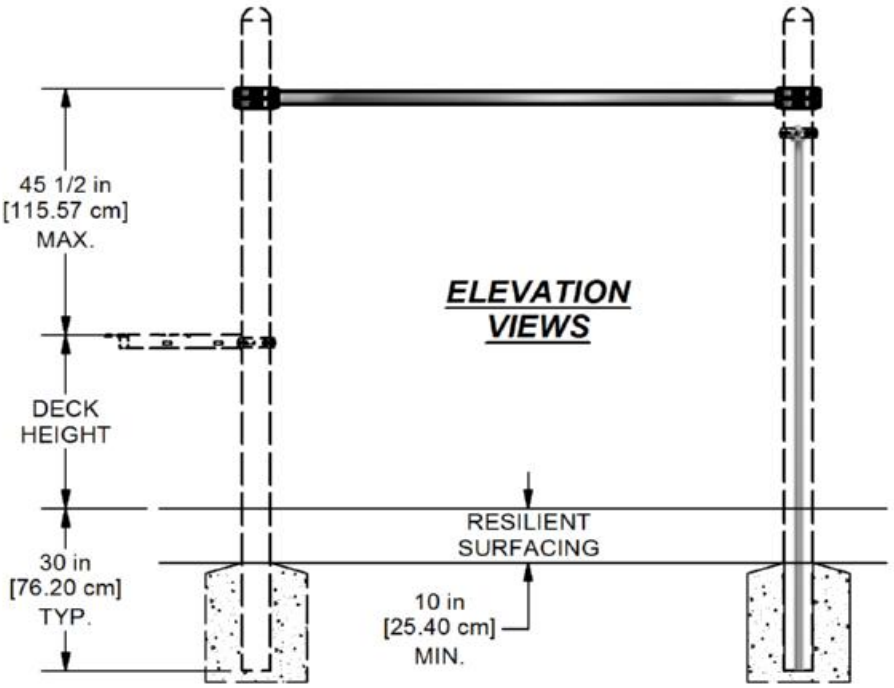


PLAN VIEW

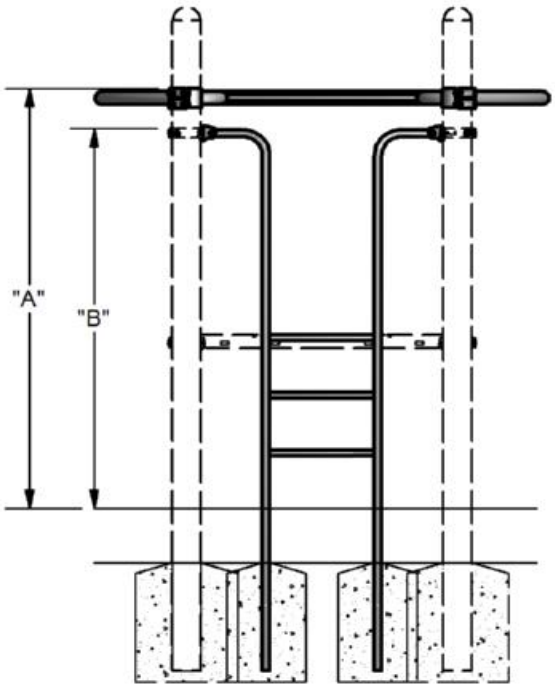
CONCRETE REQUIRED
0.14 CUBIC YARDS
[0.10 CUBIC METERS]

NOTE: If overhead component is to be installed at an 0'-8" or 1'-0" deck height, use 1'-4" Vertical Ladder and cut 8" off legs for 0'-8" deck or cut 4" off legs for 1'-0" deck.

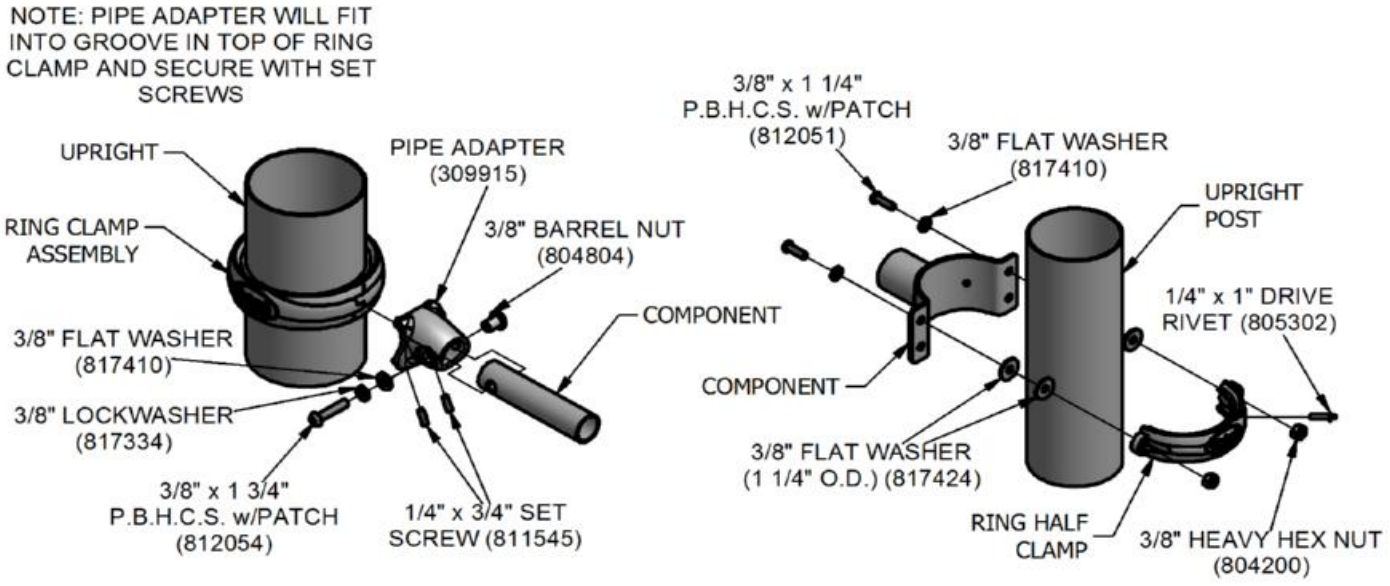
Dimension Table			
Product	Deck Height	Dim "A"	Dim "B"
71208	0'-8"	53 1/2" [135.89cm]	46 1/16" [117.04cm]
71208	1'-0"	57 1/2" [146.05cm]	50 1/16" [127.20cm]
71208	1'-4"	61 1/2" [156.21cm]	54 1/16" [137.36cm]
71209	2'-0"	69 1/2" [176.53cm]	62 1/16" [157.68cm]
71210	2'-8"	77 1/2" [196.85cm]	70 1/16" [178.03cm]



ELEVATION VIEWS



Climb-A-Round - Attachment
71208 (0'-8", 1'-0", & 1'-4"); 71209 (2'-0"); 71210 (2'-8")



448

475

SuperMax Play Systems

71317 Single U-Handle

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	U-HANDLE ASSEMBLY	1	310446
2	RING HALF CLAMP	2	309913
	-----HARDWARE COMPLETE-----	1	312231
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
	3/8" FLAT WASHER	4	817410
	3/8" HEAVY HEX NUT	4	804200
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	1/4" x 1" DRIVE RIVET	2	805302

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck to receive the U-Handle Assembly. Refer to your Top View drawing for location.

2. Mark position of Clamp on the Upright Post. See Elevation View.

3. Attach U-Handle Assembly to Upright Post using Ring Half Clamp, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Flat Washer (1 1/4" O.D.) and 3/8" Heavy Hex Nut as shown in Detail 475.

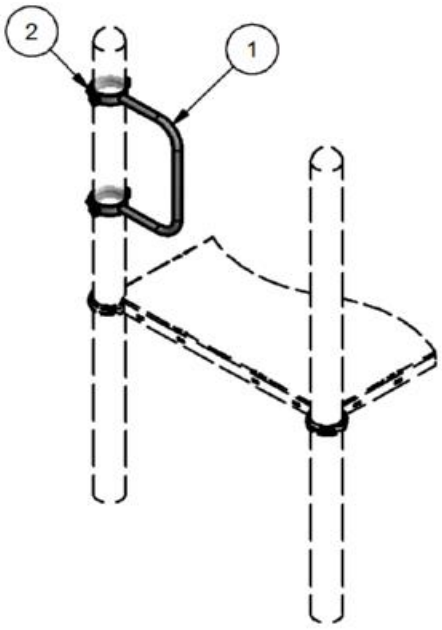
4. Plumb and level the U-Handle, then tighten all fasteners.

5. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

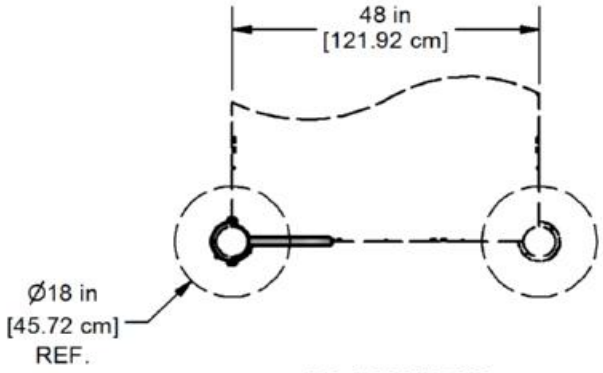
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Check for rust or paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check Plastisol-coating for bare spots and touch-up with Plastisol if necessary. Clear any trapped debris from deck perforations. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

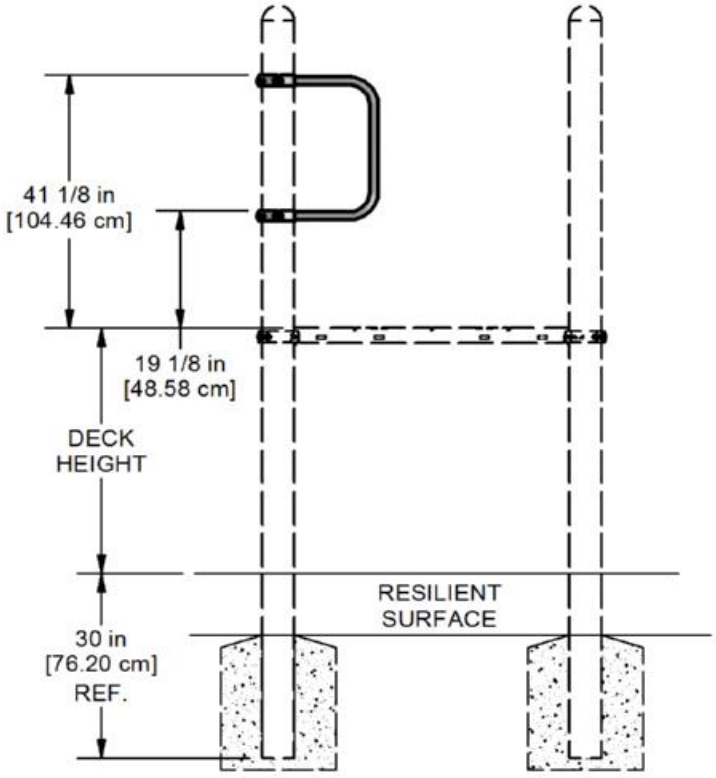
71317 Single U-Handle



DECKS AND UPRIGHTS
(SOLD SEPERATELY)



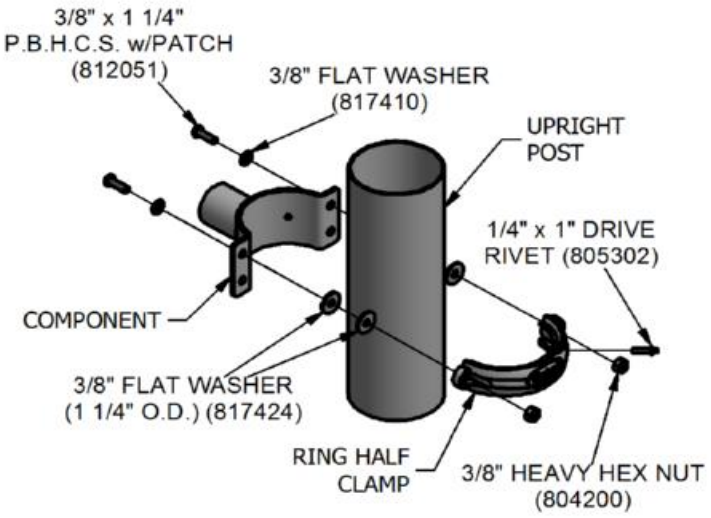
PLAN VIEW



ELEVATION VIEW

⬡ = INSTALLATION DETAIL

71317 Single U-Handle



475

71338 Hand Pedaler

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	HAND PEDALER ASSEMBLY	1	308375
2	RING HALF CLAMP	2	309913
	-----HARDWARE COMPLETE-----	1	310570
	1/4" x 1" DRIVE RIVET	2	805302
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
	3/8" FLAT WASHER	4	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	3/8" HEAVY HEX NUT	4	804200

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Select the appropriate Upright Post to receive the Hand Pedaler. Refer to your overhead drawing for location.

2. Mark position of Clamps on the Upright Post. See Elevation Views.

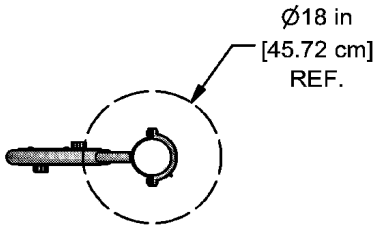
3. Attach Hand Pedaler to Upright Post using Ring Half Clamp, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, 3/8" Flat Washer (1 1/4" O.D.) and 3/8" Heavy Hex Nut as shown in Detail 475.

4. When structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring on installed hardware like bolts, nuts etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

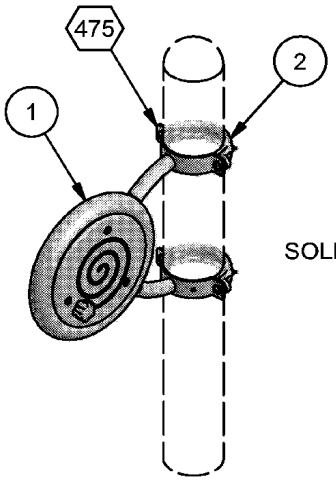
MAINTENANCE PROCEDURE:

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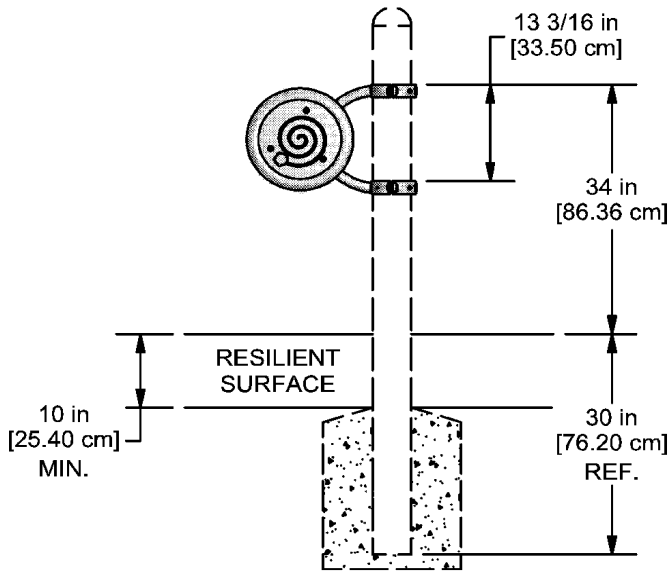
71338 Hand Pedaler



PLAN VIEW

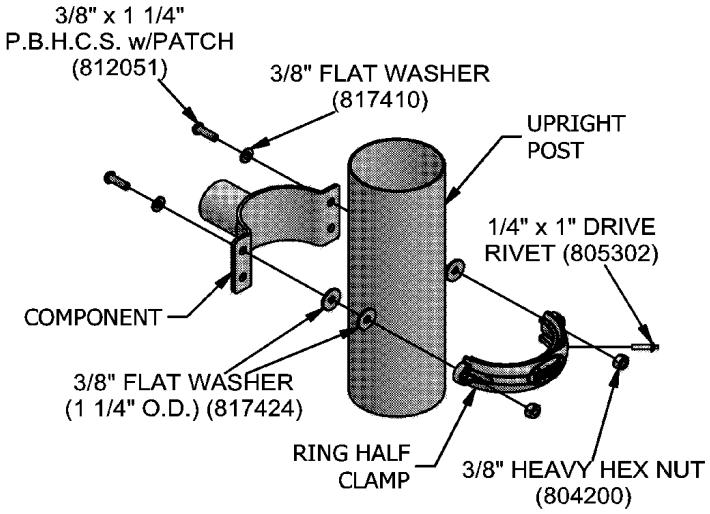


FINISHED ASSEMBLY



ELEVATION VIEW

71338 Hand Pedaler



475

SuperMax Play Systems

71348 Seat for Two and Table

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	SEAT SUPPORT BEAM	1	302373
2	TABLE SUPPORT POST	1	302378
3	SEAT PANEL	1	302366
4	22" ROUND TABLE PANEL	1	302361
5	RING HALF CLAMP	2	309913
	-----HARDWARE COMPLETE-----	1	310580
	1/4" x 1" DRIVE RIVET	2	805302
	3/8" x 3/4" P.B.H.C.S. w/PATCH	8	812052
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
	3/8" FLAT WASHER	12	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	3/8" BARREL NUT	8	804804
	3/8" HEAVY HEX NUT	4	804200

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which uprights are to receive the Seat for Two and Table, refer to your overhead drawing for location. Dig footings at location and depth as shown.

2. Attach Seat Support Beam to Seat Panel using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers, and 3/8" Barrel Nuts as shown in Detail 517. Note: Counterbore holes are to be turned upwards to receive Barrel Nuts.

3. Fasten Seat Assembly to Upright Posts using Ring Half Clamps, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers, 3/8" Flat Washers (1 1/4" O.D.) and 3/8" Heavy Hex Nuts as shown in Detail 475.

4. Attach Table Support Post to Table Panel using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers, and 3/8" Barrel Nuts as shown in Detail 517. Note: Counterbore holes are to be turned upwards to receive Barrel Nuts.

5. Place Table Support Post in dug hole, bracing it in the vertical position.

6. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

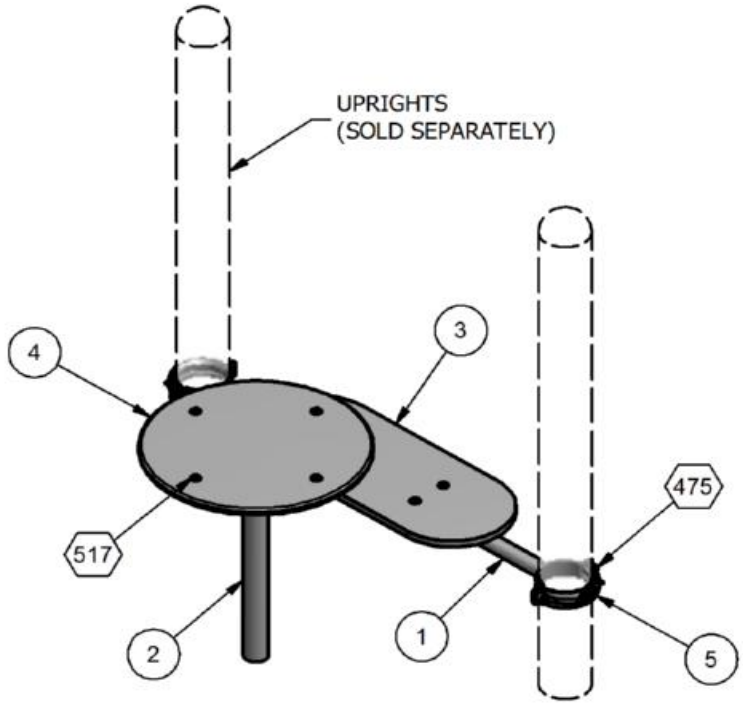
71348 Seat for Two and Table

7. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

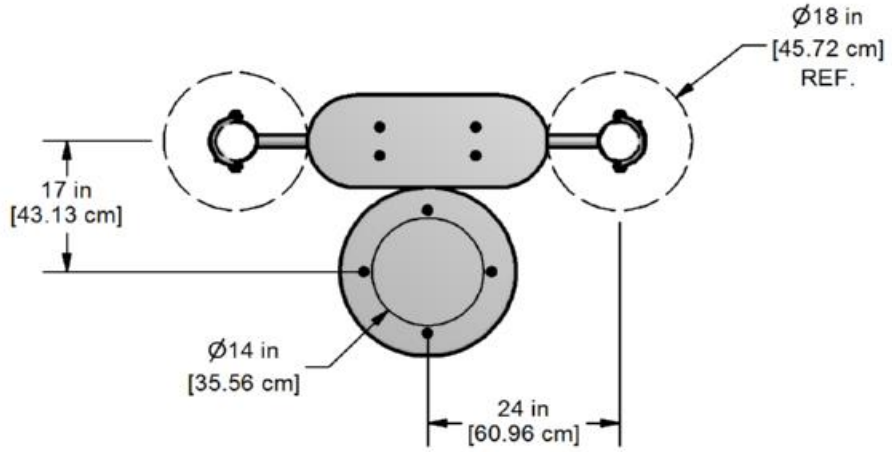
Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



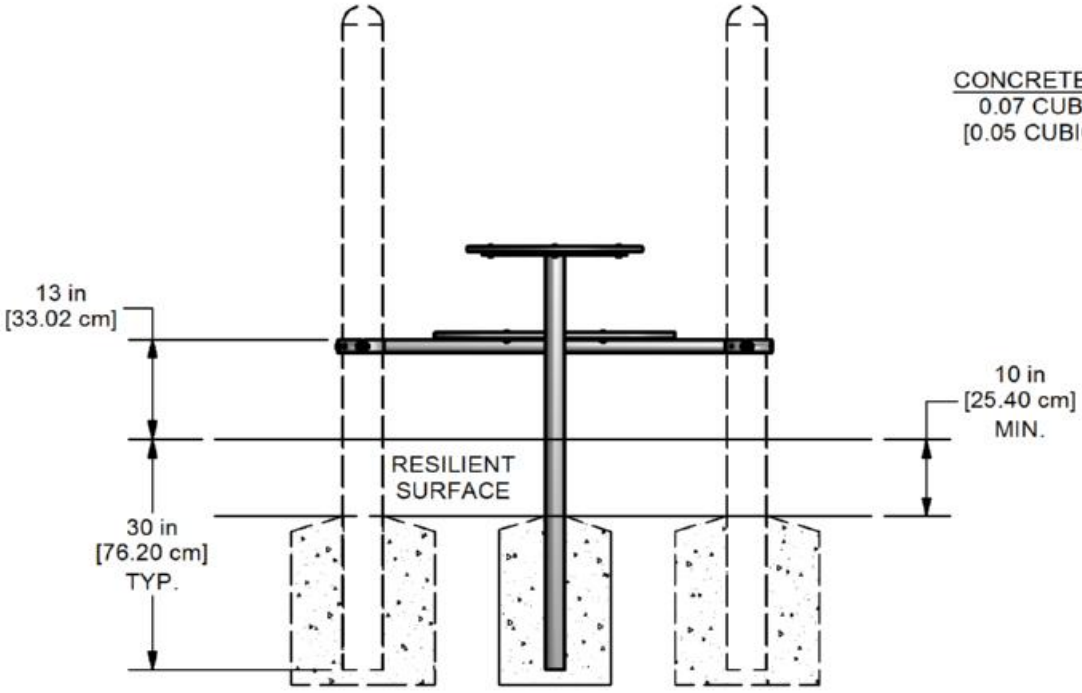
= INSTALLATION DETAIL

FINISHED ASSEMBLY

71348 Seat for Two and Table

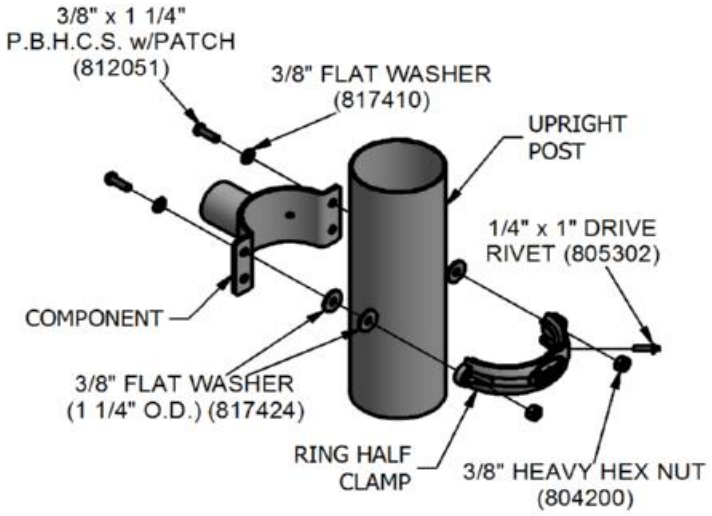


PLAN VIEW

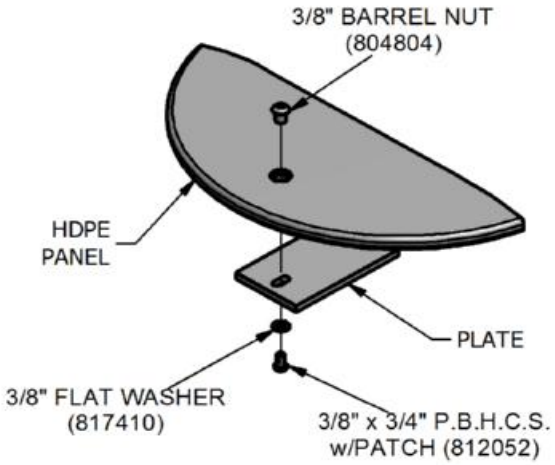


ELEVATION VIEW

71348 Seat for Two and Table



475



517

SuperMax Play Systems

71385 BALCONY DECK
71386 BALCONY DECK w/PLAYWHEEL

Parts List -for- 71385			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	BALCONY DECK	1	312403
2	BALCONY WALL	1	312408
3	PIPE ADAPTER	2	309915
	-----HARDWARE COMPLETE-----	1	310657
	3/8" x 3/4" P.B.H.C.S. w/PATCH	3	812052
	3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
	3/8" FLAT WASHER (1 1/4" O.D.)	14	817424
	3/8" FLAT WASHER	2	817410
	3/8" BARREL NUT	2	804804
	3/8" LOCK NUT	7	804353
	1/4" x 3/4" SET SCREW	4	811545
	3/8" LOCK WASHER	2	817334
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054

Parts List -for- 71386			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	BALCONY DECK	1	312403
2	BALCONY WALL	1	312410
3	PIPE ADAPTER	2	309915
4	STEERING WHEEL ASSEMBLY	1	163235
	-----HARDWARE COMPLETE-----	1	310658
	1/4" x 3/4" SET SCREW	4	811545
	3/8" BARREL NUT	2	804804
	3/8" FLAT WASHER	4	817410
	3/8" x 1" P.B.H.C.S. w/PATCH	4	812050
	3/8" FLAT WASHER (1 1/4" O.D.)	14	817424
	3/8" LOCK NUT	7	804353
	3/8" x 3/4" P.B.H.C.S. w/PATCH	5	812052
	3/8" LOCK WASHER	4	817334
	3/8" ACORN NUT	2	804002
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Place Balcony Deck on a flat surface. If necessary, using a 7/16" drill bit, ream out excess plastisol coating from the (4) holes located on the flange, as well as the (4) holes located on the flange of the existing deck for attachment. Be careful not to expose steel frame.

2.Position the Balcony Deck against the flange of the existing deck and fasten the flanges together using 3/8" x 1" P.B.H.C.S. with 3/8" Flat Washers and 3/8" Lock Nuts as shown in Detail 090.

3 .Attach Ring Clamps on uprights at height shown in elevation view (See seperate Ring Clamp Installation Sheet). Attach Balcony Wall to Ring clamps using Pipe Adapter as shown in Detail 448. Fasten bottom tabs of Balcony Wall to the Balcony Deck as shown in Detail 026.

4. For 71386 only: Attach Steering Wheel Assembly to the Balcony Wall using two each 3/8" x 3/4" P.B.H.C.S., 3/8" Flatwasher, 3/8" Lockwasher and 3/8" Acorn Nut as shown in Detail 091.

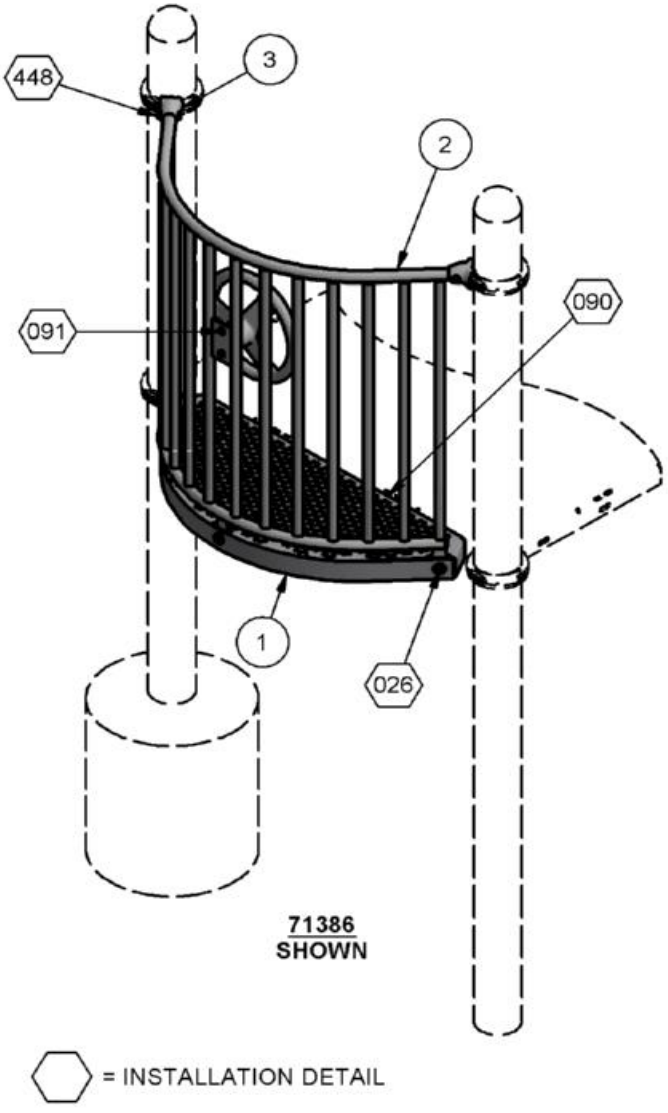
5.When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See a Deck Clamp subassembly sheet. It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Install resilient surfacing material within the use zone of play structure, in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

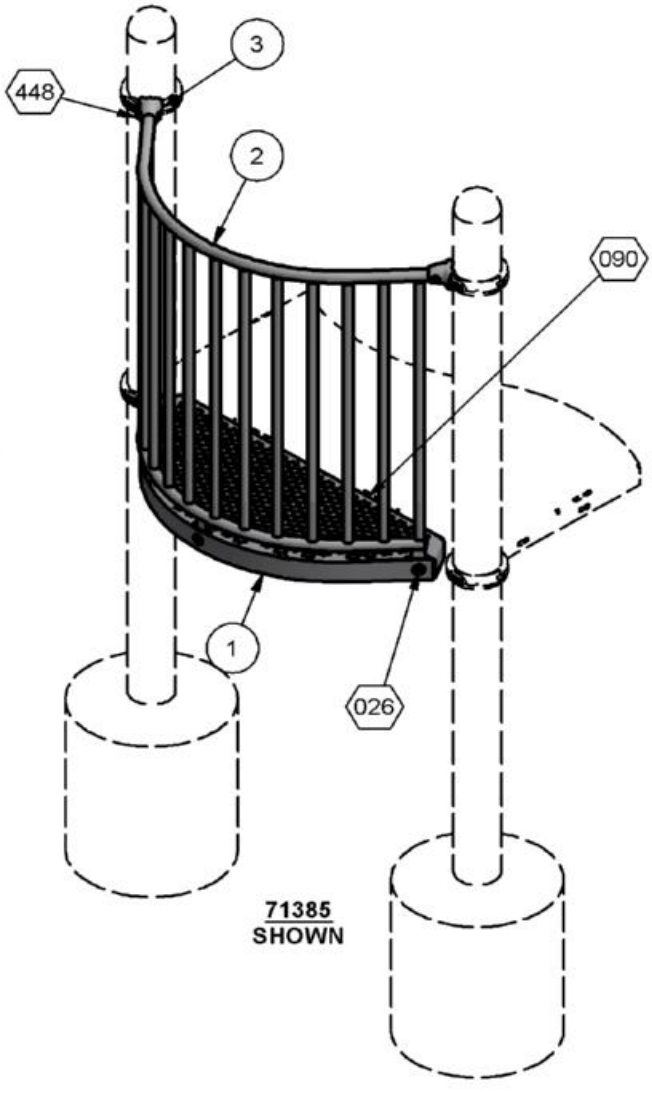
71385 BALCONY DECK
71386 BALCONY DECK w/PLAYWHEEL

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



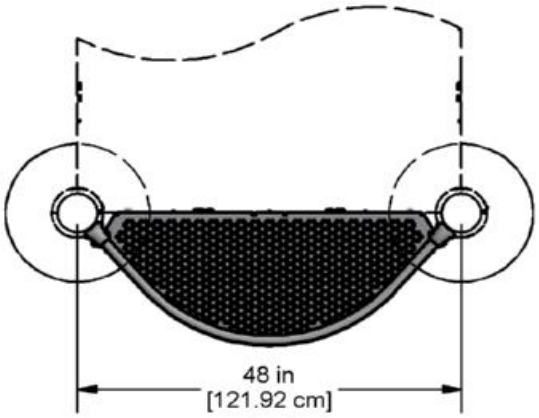
71386
SHOWN



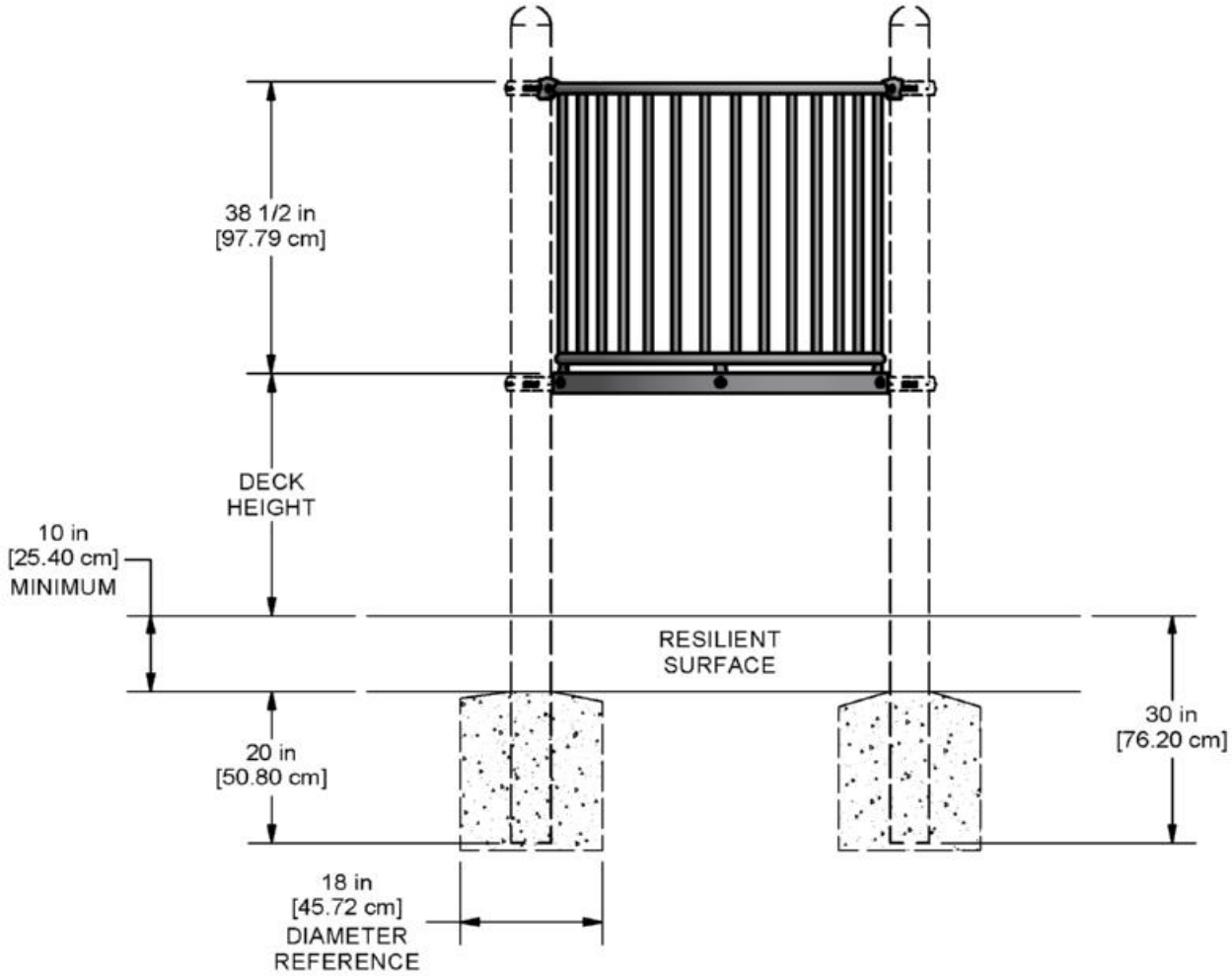
71385
SHOWN

⬡ = INSTALLATION DETAIL

71385 BALCONY DECK
71386 BALCONY DECK w/PLAYWHEEL

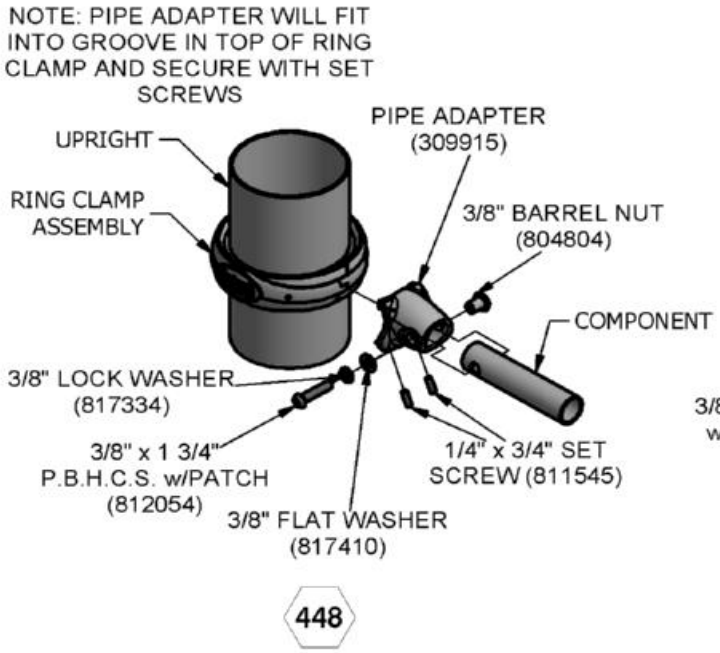


PLAN VIEW

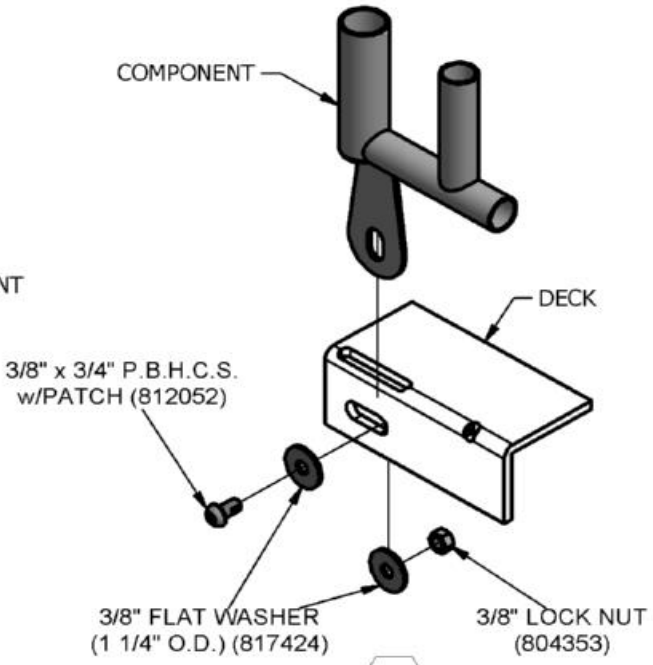


ELEVATION VIEW

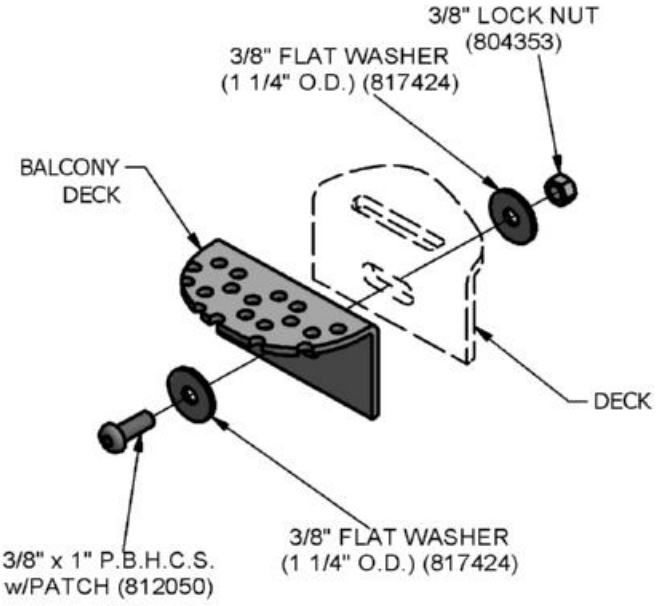
71385 BALCONY DECK
71386 BALCONY DECK w/PLAYWHEEL



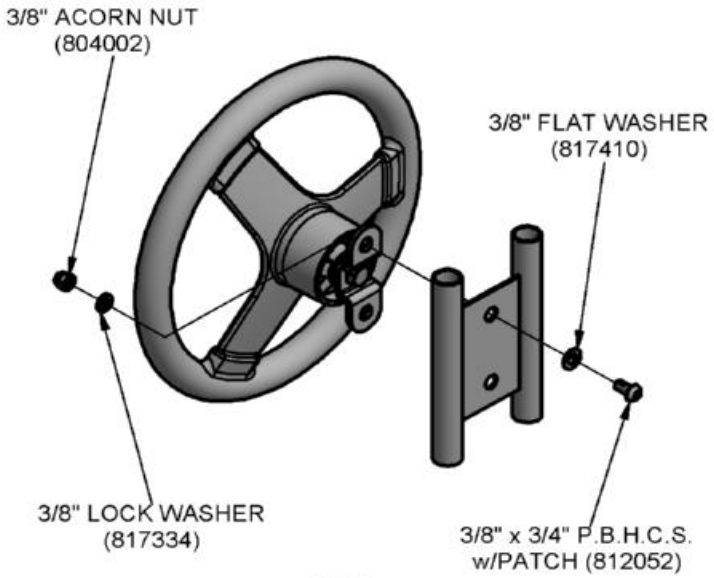
448



026



090



091

SuperMax Play Systems

71395 Mini Panel
For Small Activities, See Installation Sheet 7200

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	MINI AMAZE PANEL	1	307676
2	MOUNTING BRACKET	2	404388
3	RING HALF CLAMP	2	309913
	-----HARDWARE COMPLETE-----	1	310746
	1/4" x 1" DRIVE RIVET	2	805302
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
	3/8" FLAT WASHER	6	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	3/8" BARREL NUT	2	804804
	3/8" HEAVY HEX NUT	4	804200

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Select the appropriate Upright Post to receive the Mini Panel. Refer to your overhead drawing for location.

2. Mark position of Clamps on the Upright Post. See Elevation Views.

3. Attach Mounting Bracket to Upright using Ring Half Clamp, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers, 3/8" Flat Washers (1 1/4" O.D.) and 3/8" Heavy Hex Nuts as shown in Detail 475.

4. Attach Mini Panel to Bracket using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers, and 3/8" Barrel Nuts as shown in Detail 539.

5. Plumb and level the Mini Panel, then tighten all fasteners.

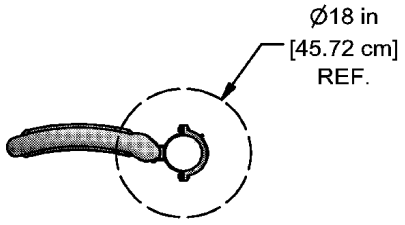
When structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring on installed hardware like bolts, nuts etc. Install resilient surfacing material within the *use zone* of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*.

MAINTENANCE PROCEDURE:

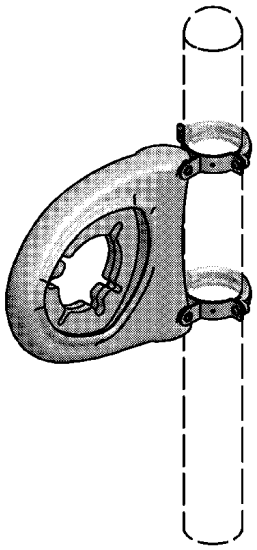
Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71395 Mini Panel
For Small Activities, See Installation Sheet 7200

NOTE:
OPENING ON PANEL MUST BE FILLED WITH A SMALL ACTIVITY BEFORE PLAYGROUND IS OPERATIONAL.

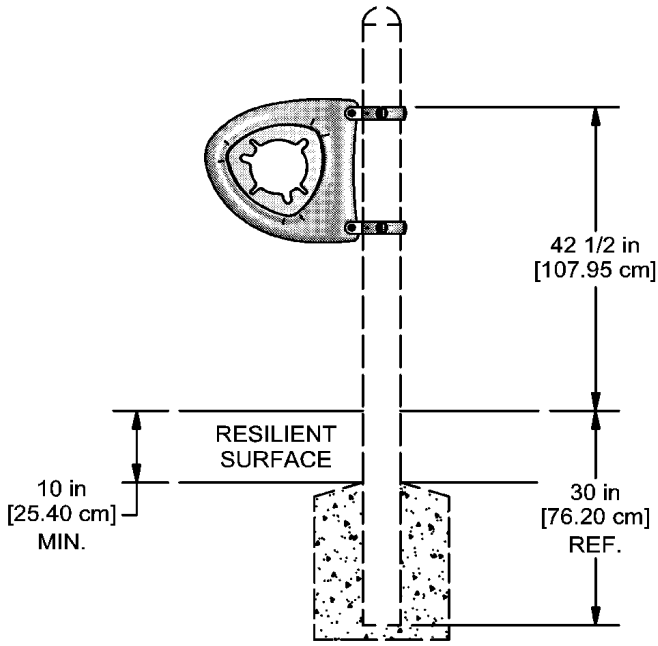


PLAN VIEW



UPRIGHT
SOLD SEPERATELY

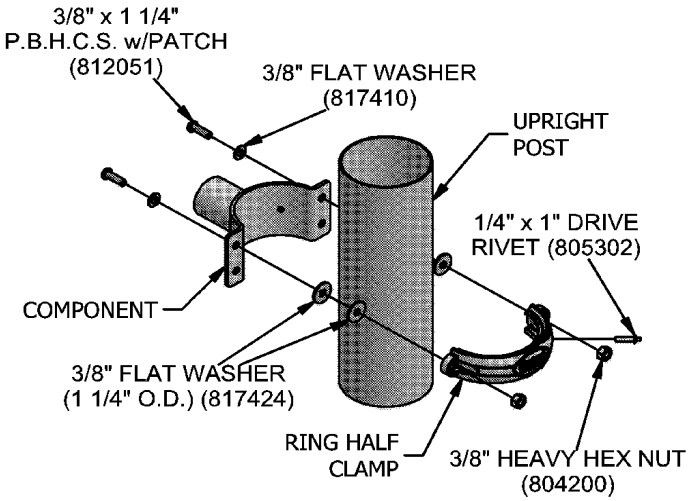
FINISHED ASSEMBLY



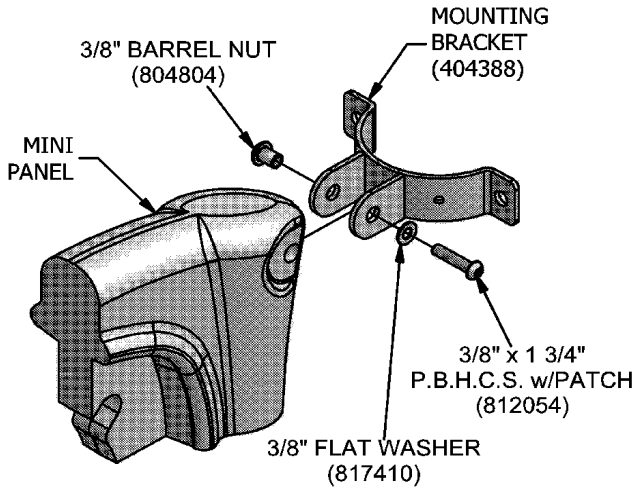
ELEVATION VIEW

⬡ = INSTALLATION DETAIL

71395 Mini Panel
For Small Activities, See Installation Sheet 7200



475



539

SuperMax Play Systems

71464 Slide Transfer

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	TRANSFER PLATFORM	1	311035
2	UPRIGHT ASSEMBLY	2	309704
3	BARRIER	2	311045
4	DECK ADAPTER	4	309921
5	PIPE ADAPTER	4	309915
6	ALUMINUM END CAP	4	212993
	-----HARDWARE COMPLETE-----	1	311052
	1/4" x 3/4" SET SCREW	16	811545
	3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
	3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	812054
	3/8" FLAT WASHER	4	817410
	3/8" LOCK WASHER	8	817334
	3/8" FLAT WASHER (1 1/4" O.D.)	8	817424
	3/8" BARREL NUT	4	804804
	3/8" LOCK NUT	2	804353
	3/16" x 13/32" DRIVE RIVET	8	805366

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Slide Transfer, refer to your overhead drawing for location.

2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.

3. Hook Deck Adapters onto lower Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 447.

4. Attach Transfer Platform to Deck Adapters using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers (1 1/4" O.D.) and 3/8" Lock Washers as shown in Detail 447. Keep Slide Transfer supported.

5. Attach Pipe Adapters to Barrier using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washers, and 3/8" Barrel Nut as shown in Detail 448. Be aware of orientation as it is critical. Hook Pipe Adapters onto Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 448. Attach Barrier to side of Slide Transfer using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers (1 1/4" O.D.) and 3/8" Lock Nuts as shown in Detail 026.

6. Attach Upright Assemblies by Hooking Pipe Adapters onto Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 448 and attaching Deck Adapters to Slide Transfer using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washers (1 1/4" O.D.) and 3/8" Lock Washers as shown in Detail 447. Attach Caps to uprights using Detail 597.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

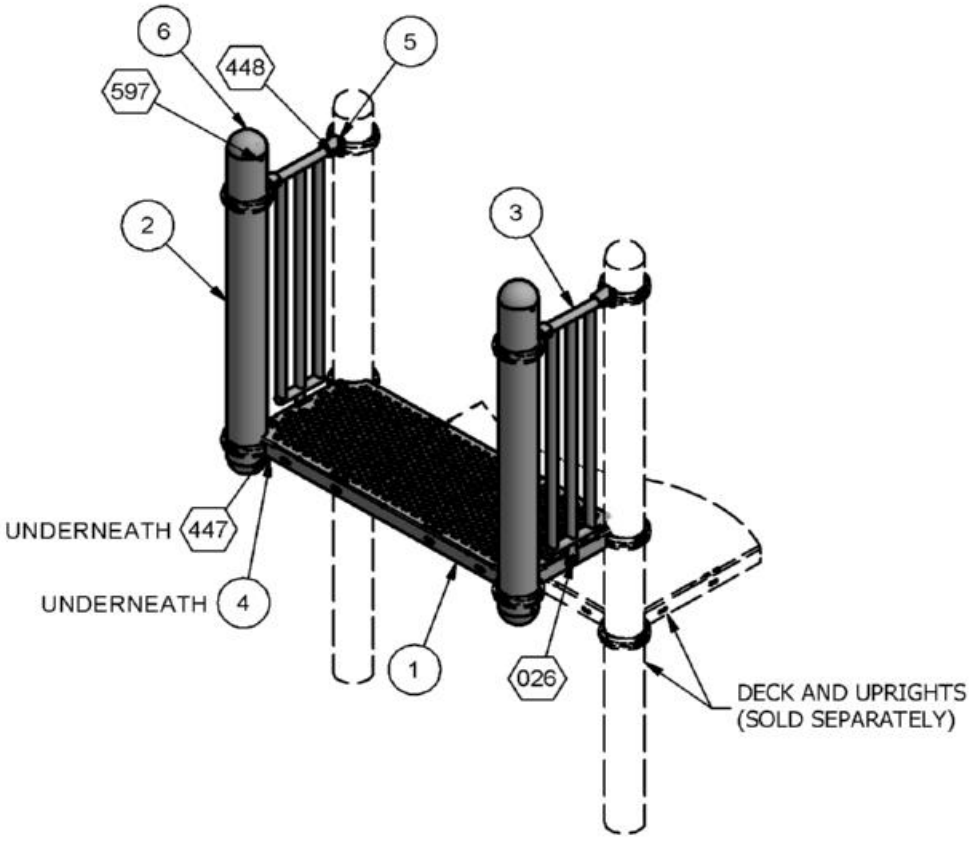
71464 Slide Transfer

When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the ***Safety Guidelines.*** Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

MAINTENANCE PROCEDURE:

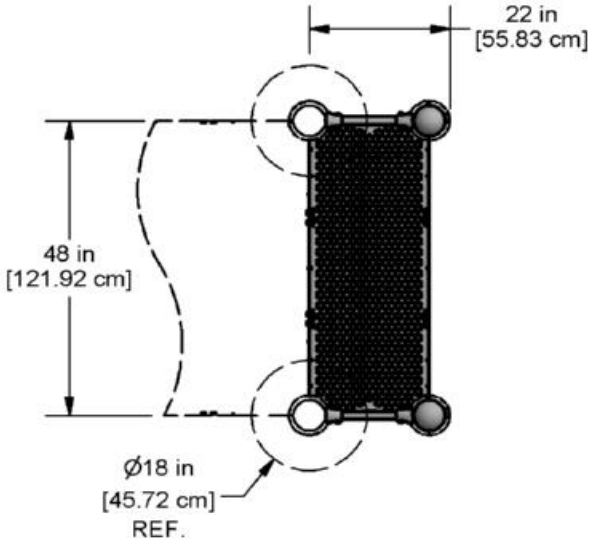
Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



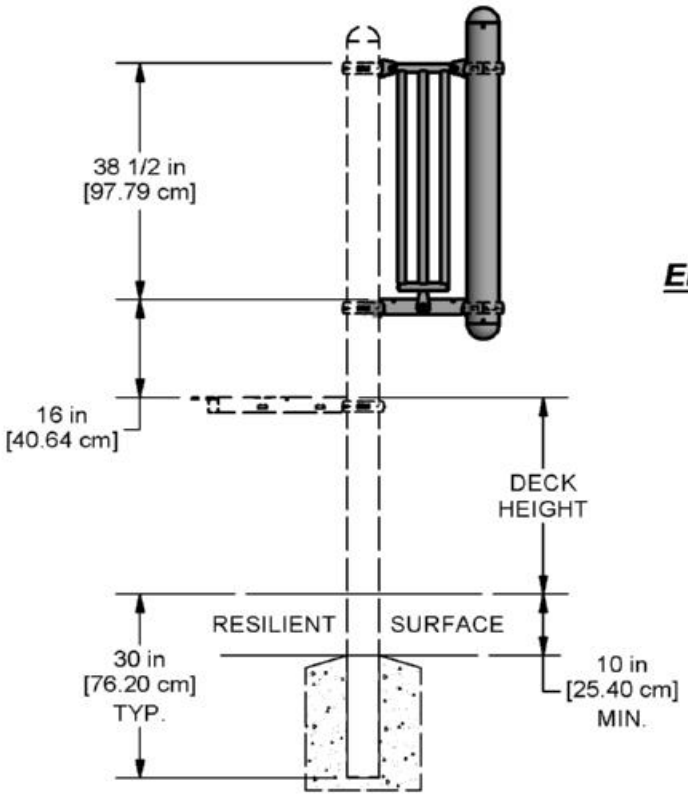
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

71464 Slide Transfer

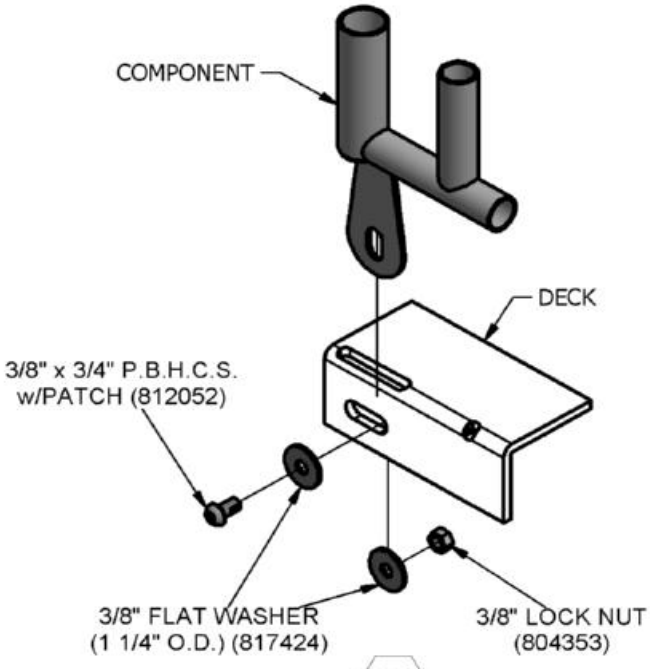


PLAN VIEW

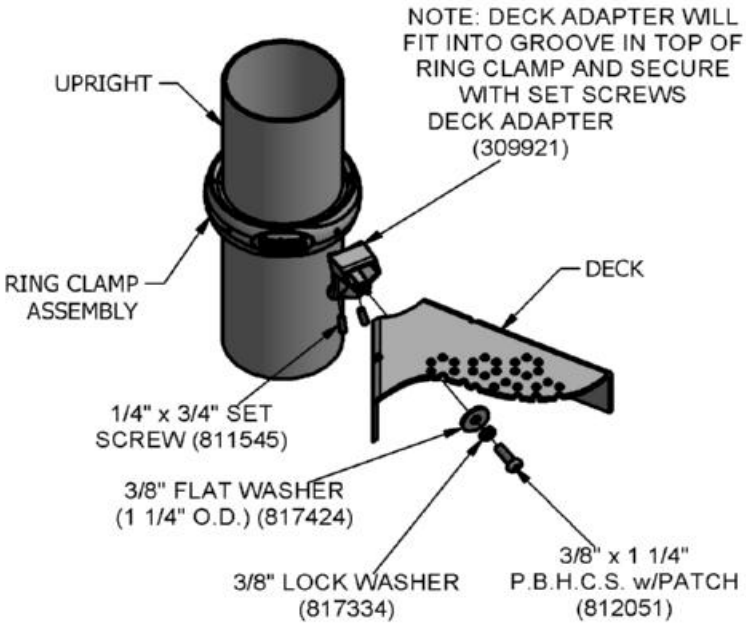


ELEVATION VIEW

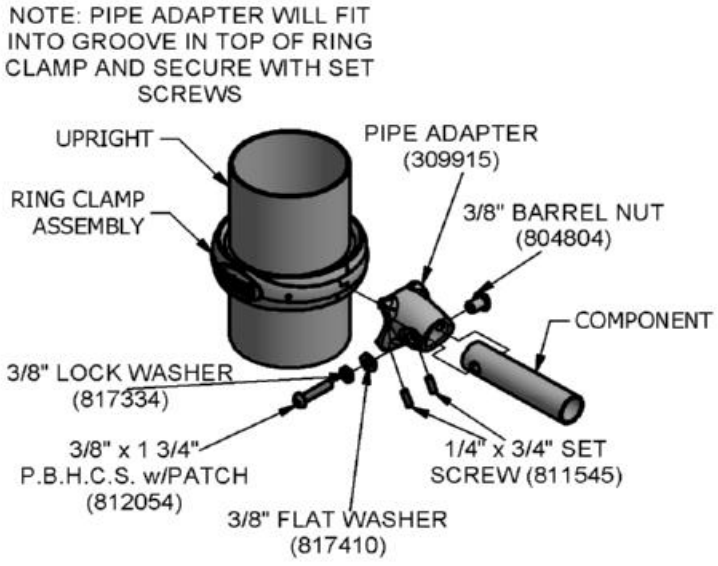
71464 Slide Transfer



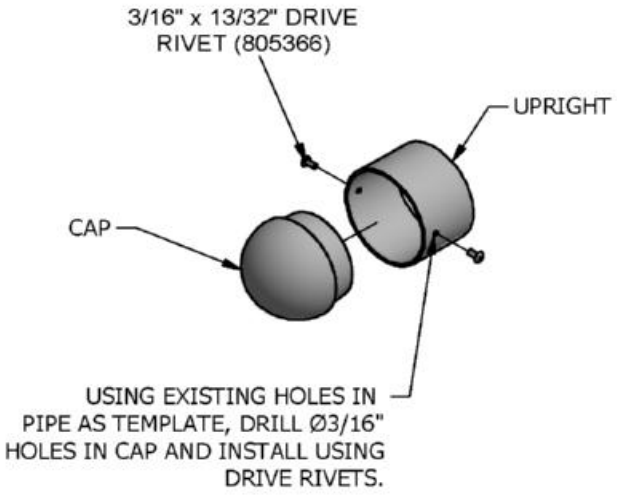
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447



448



597

SuperMax Play Systems

Deck to Deck Stairs 71471 (1'-4" Rise); 71472 (2' Rise); 71473 (2'-8" Rise); 71474 (3'-4" Rise); 71475 (4' Rise)

Parts List							
ITEM	DESCRIPTION	71471	71472	71473	71474	71475	PART NUMBER
1	RIGHT BARRIER ASS'Y	1	0	0	0	0	312319
1	RIGHT BARRIER ASS'Y	0	1	0	0	0	312311
1	RIGHT BARRIER ASS'Y	0	0	1	0	0	312303
1	RIGHT BARRIER ASS'Y	0	0	0	1	0	312295
1	RIGHT BARRIER ASS'Y	0	0	0	0	1	312201
2	LEFT BARRIER ASS'Y	1	0	0	0	0	312315
2	LEFT BARRIER ASS'Y	0	1	0	0	0	312307
2	LEFT BARRIER ASS'Y	0	0	1	0	0	312299
2	LEFT BARRIER ASS'Y	0	0	0	1	0	312291
2	LEFT BARRIER ASS'Y	0	0	0	0	1	312199
3	COATED STAIRS (16" RISE)	1	0	0	0	0	307252
3	STAIRS (2' RISE)	0	1	0	0	0	307274
3	STAIRS (2'-8" RISE)	0	0	1	0	0	307281
3	STAIRS (3'-4" RISE)	0	0	0	1	0	307288
3	STAIRS (4' RISE)	0	0	0	0	1	307297
4	PIPE ADAPTER	4	4	4	4	4	309915
	-----HARDWARE COMPLETE-----	1	1	1	1	1	312329
	1/4" x 3/4" SET SCREW	8	8	8	8	8	811545
	3/8" x 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	4	812052
	3/8" x 1" P.B.H.C.S. w/PATCH	4	4	4	4	4	812050
	3/8" x 1 3/4" P.B.H.C.S. w/PATCH	4	4	4	4	4	812054
	3/8" FLAT WASHER	4	4	4	4	4	817410
	3/8" FLAT WASHER (1 1/4" O.D.)	16	16	16	16	16	817424
	3/8" LOCK WASHER	4	4	4	4	4	817334
	3/8" BARREL NUT	4	4	4	4	4	804804
	3/8" LOCK NUT	8	8	8	8	8	804353

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

Deck to Deck Stairs 71471 (1'-4" Rise); 71472 (2' Rise); 71473 (2'-8" Rise); 71474 (3'-4" Rise); 71475 (4' Rise)

INSTALLATION INSTRUCTIONS:

1. Locate the appropriate decks to attach the Stair.

2. With sufficient manpower, lift the stair and fasten to the decks using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washers (1 ¼" O.D.) and 3/8" Lock Nut. See Detail 090.

3. Attach four Ring Clamps to the Uprights. See separate Ring Clamp installation sheet. See Elevation View for clamp locations. Attach Pipe Adapters to the Ring Clamps using 1/4" x 3/4" set screws. See Detail 448.

4. Attach the Barriers to to the Pipe Adapters. See Detail 448.

5. Attach the bottom tab of the Barriers to the decks using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 ¼" O.D.) and 3/8" Lock Nut. See Detail 449.

6. Using Detail 448, attach the Pipe Adapters to the Ring Clamps with 1/4" Set Screws.

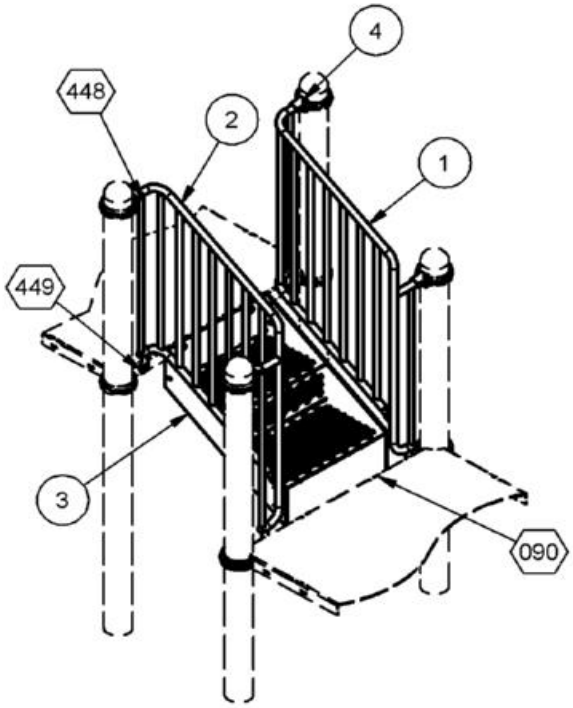
7. Plumb and Level the entire assembly.

8. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp installation sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the ***use zone*** of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the ***Safety Guidelines***.

MAINTENANCE PROCEDURE:

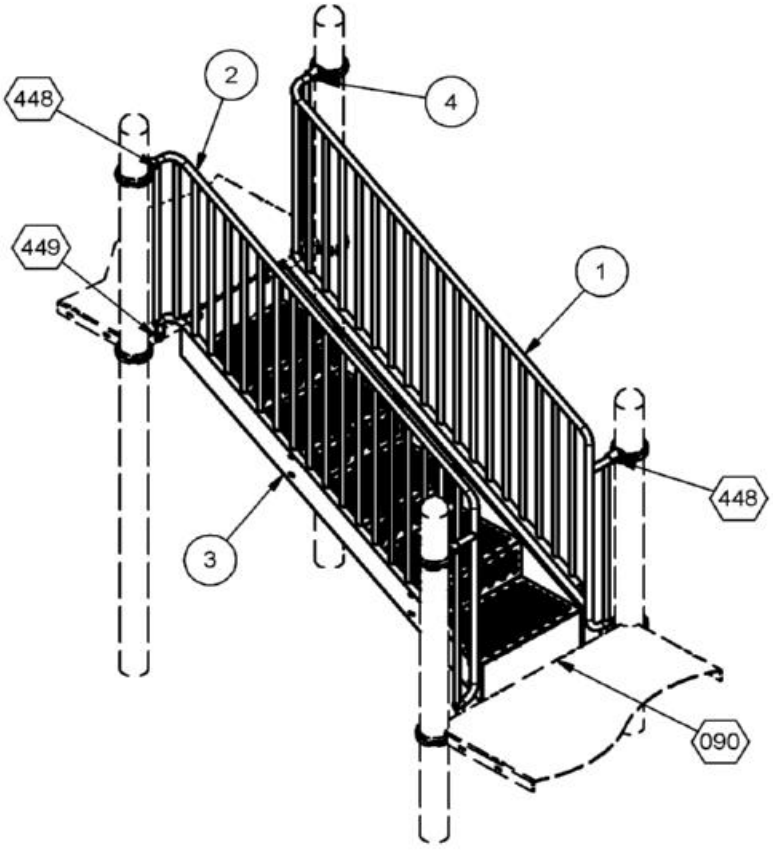
Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

Deck to Deck Stairs 71471 (1'-4" Rise); 71472 (2' Rise); 71473 (2'-8" Rise); 71474 (3'-4" Rise); 71475 (4' Rise)



71472 SHOWN

FINISHED ASSEMBLY

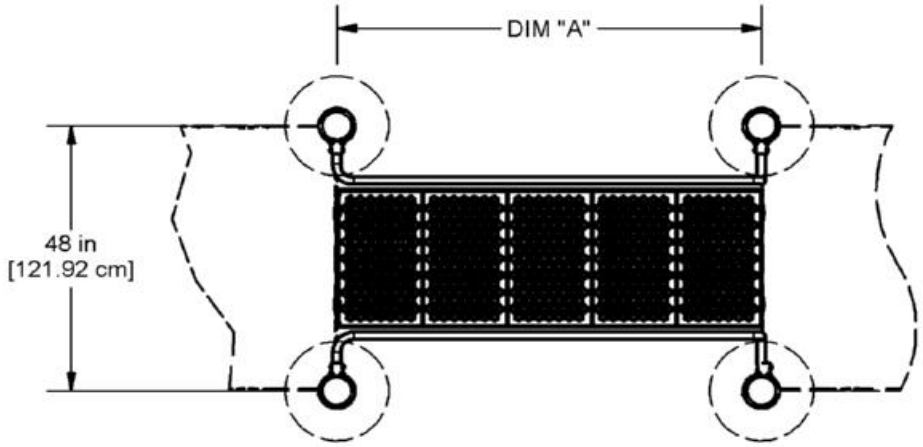


71475 SHOWN

DECKS AND UPRIGHTS SOLD SEPARATELY

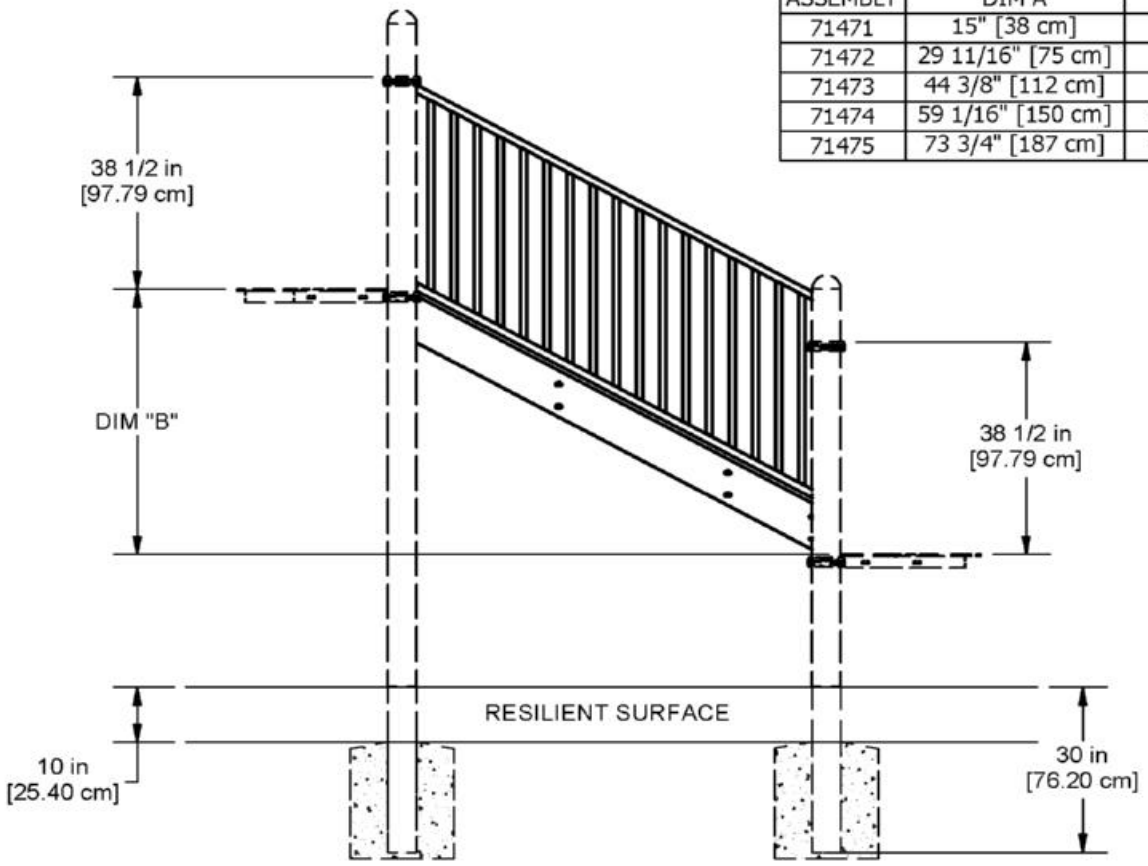
⬡ = INSTALLATION DETAIL

Deck to Deck Stairs 71471 (1'-4" Rise); 71472 (2' Rise); 71473 (2'-8" Rise); 71474 (3'-4" Rise); 71475 (4' Rise)



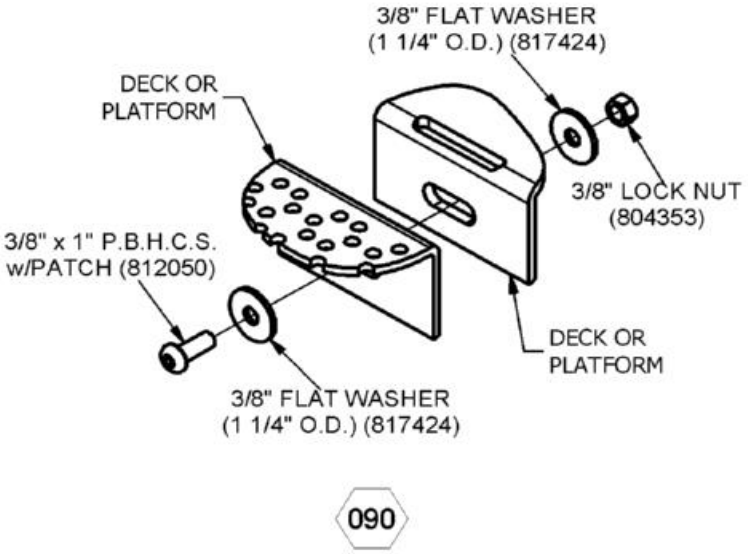
PLAN VIEW

ASSEMBLY	DIM A	DIM B
71471	15" [38 cm]	16" [40 cm]
71472	29 11/16" [75 cm]	24" [61 cm]
71473	44 3/8" [112 cm]	32" [81 cm]
71474	59 1/16" [150 cm]	40" [101 cm]
71475	73 3/4" [187 cm]	48" [121 cm]

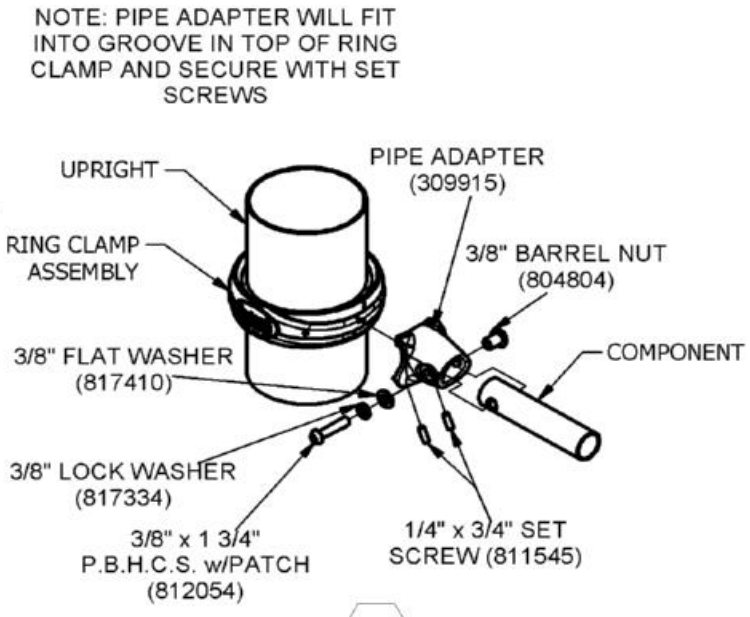


ELEVATION VIEW

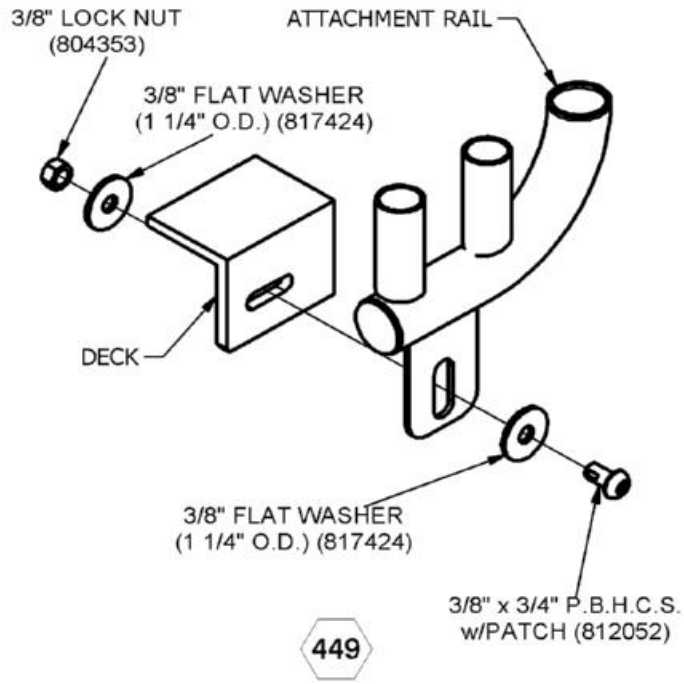
Deck to Deck Stairs 71471 (1'-4" Rise); 71472 (2' Rise); 71473 (2'-8" Rise); 71474 (3'-4" Rise); 71475 (4' Rise)



090



448



449

71503 Flat Cap Package

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	COATED FLAT CAP	1	139454
2	1/4" x 3/4" DRIVE RIVET	2	168449

Unless Otherwise Specified, All Units of Measure are Each
Items listed below Hardware Complete line are included with Hardware Complete Number

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Assemble using Drive Rivets as shown in Detail 622.

2. Drive Rivets must not interfer with Ring Clamp.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

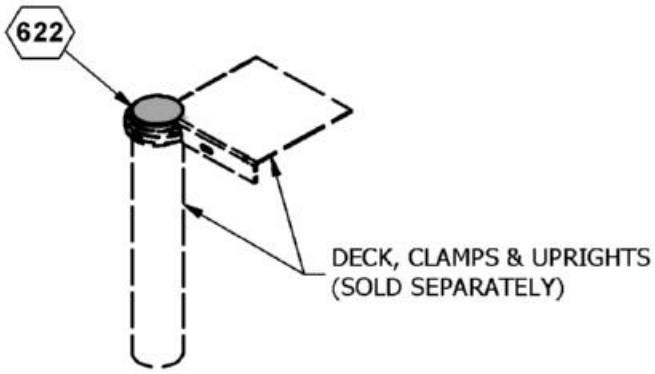
When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them***. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the *Safety Guidelines*. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

Note: To cushion accidental falls by children, it is strongly recommended that the area under and around the play structure must be covered with a resilient material, such as sand, mulch, etc., to a minimum depth of 10" for sand. Approved rubber safety matting can also be used. For details, please refer to your Safety Guidelines, provided within the assembly instruction packet.

71503 Flat Cap Package

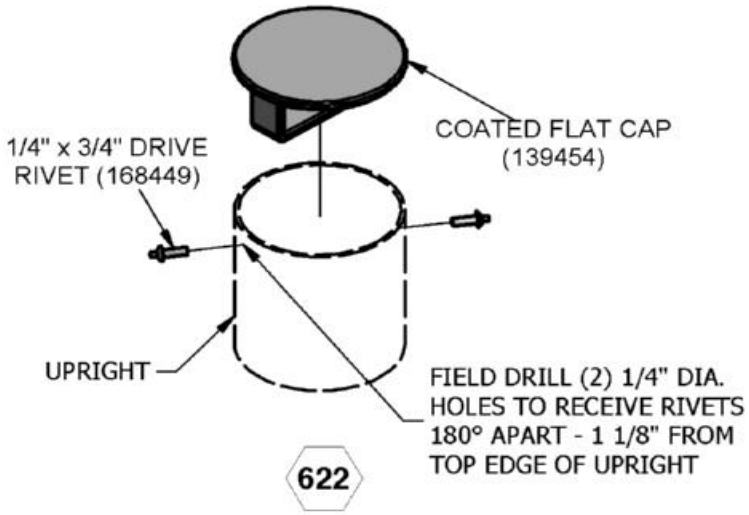
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check for rust, paint loss, and touch up if necessary with paint. Check for welded areas and verify integrity. Check all decks for peeling of Plastisol coating and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Check for openings on plastic junctions and use clear silicone to fill. Check for cracks, gouges, or breakage on plastic. Check for integrity of plastic and keep plastic keep of any extraneous substances. Verify that any deformation does not create entrapment as specified on ASTM F1487 section 6. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



GENERIC LENGTH POST SENT WITH ORDER. IF REQUIRED, CUT POSTS TO CORRECT LENGTH. TOP OF CAP MUST BE FLUSH WITH TOP SURFACE OF DECK.

FINISHED ASSEMBLY



⬡ = INSTALLATION DETAIL

SuperMax Play Systems

71514 SLAT BARRIER w/RAIN WHEEL

Parts List		
DESCRIPTION	QTY	PART NUMBER
RAIN WHEEL	1	308105
PIPE ADAPTER	2	309915
BARRIER SLAT 1	3	311942
BARRIER SLAT 2	1	311943
BARRIER SLAT 3	1	311944
SLAT BARRIER w/RAIN WHEEL ASS'Y	1	311947
BACK PLATE w/BUSHING	1	311955
BACK SLAT	1	312178
HARDWARE COMPLETE	1	316303
1/4" x 3/4" SET SCREW	4	811545*
3/8" x 1" P.B.H.C.S. w/PATCH	2	812050*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	3	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 2" P.B.H.C.S. w/PATCH	8	812055*
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	4	812057*
3/8" x 3 1/2" P.B.H.C.S. w/PATCH	4	812075*
3/8" x 4" P.B.H.C.S. w/PATCH	1	812082*
3/8" LOCK WASHER	5	817334*
3/8" FLAT WASHER	22	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424*
3/8" LOCK NUT	2	804353*
3/8" BARREL NUT	19	804804*
1/2" FLAT WASHER	1	817412*
1/2" HEX NUT	1	804055*
PACKAGE OF BB'S	1	818326*
PLASTIC SPACER	10	161406*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71514 SLAT BARRIER w/RAIN WHEEL

INSTALLATION INSTRUCTIONS:

1. Locate deck opening to receive the Slat Barrier. See Plan and Elevation Views for clamp height and location. Dig footing holes as shown in Elevation View.
2. Attach Ring Clamps at required locations as shown in Elevation View. See Ring Clamp Installation sheet.
3. Attach Pipe Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 448.
4. Attach the Slat Barrier to Pipe Adapters using 3/8" x 1 3/4" P.B.H.C.S.w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.
5. Attach the bottom of the Slat Barrier to deck using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Lock Nut. See Detail 449.
6. Attach Back Plate to Slat Barrier using 1/2" Flat Washer and 1/2" Hex Nut. See Detail 584.
7. Attach Rain Wheel to Back Plate using 3/8" x 1 1/4" P.B.H.C.S. wPatch, 3/8" Lock Nut, and 3/8" Flat Washer. See Detail 584.
8. Attach Barrier Slat 2 to Slat Barrier using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 623.
9. Attach Barrier Slats 1 and 3 to Slat Barrier using 3/8" x 2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 625.
10. Attach Back Slat to Slat Barrier using 3/8" x 2 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 623.
11. Use Back Slat as a template and field drill 7/16" hole in Barrier Slat 1, 2, and 3.
12. Attach Back Slat to Barrier Slat 1 and 3 using 3/8" x 3 1/2" P.B.H.C.S. w/Patch, Plastic Spacer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 657.
13. Attach Back Slat to Barrier Slat 2 using 3/8" x 4" P.B.H.C.S. w/Patch, Plastic Spacer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 658.
14. Plumb and level the entire assembly and tighten all fasteners.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

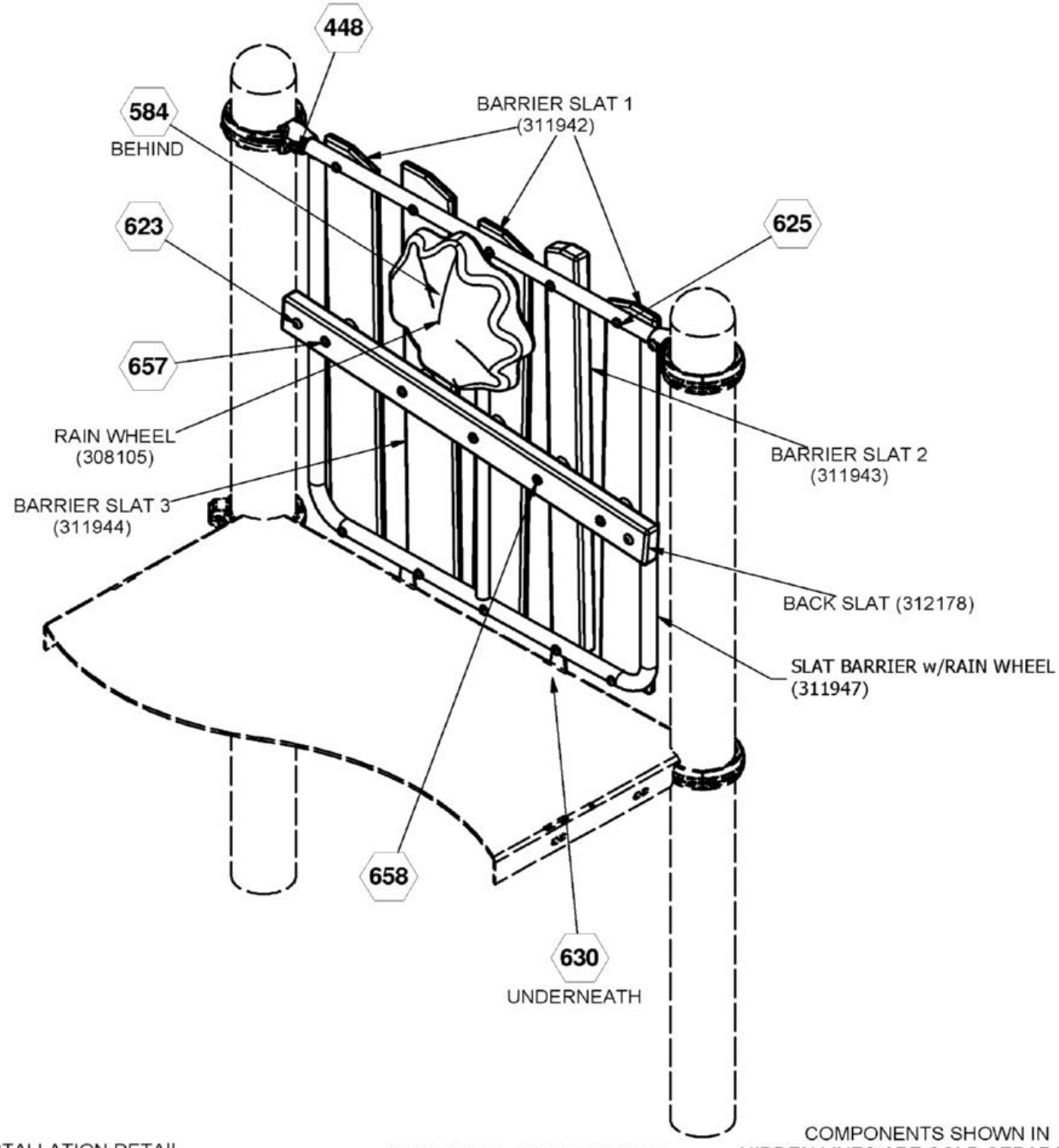
15. After entire unit is assembled pour concrete footings within 4" to the top and taper away from Post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
16. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

71514 SLAT BARRIER w/RAIN WHEEL



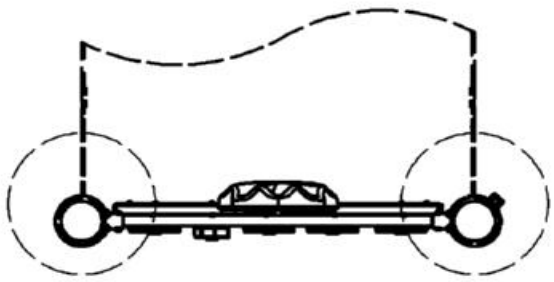
= INSTALLATION DETAIL

FINISHED ASSEMBLY

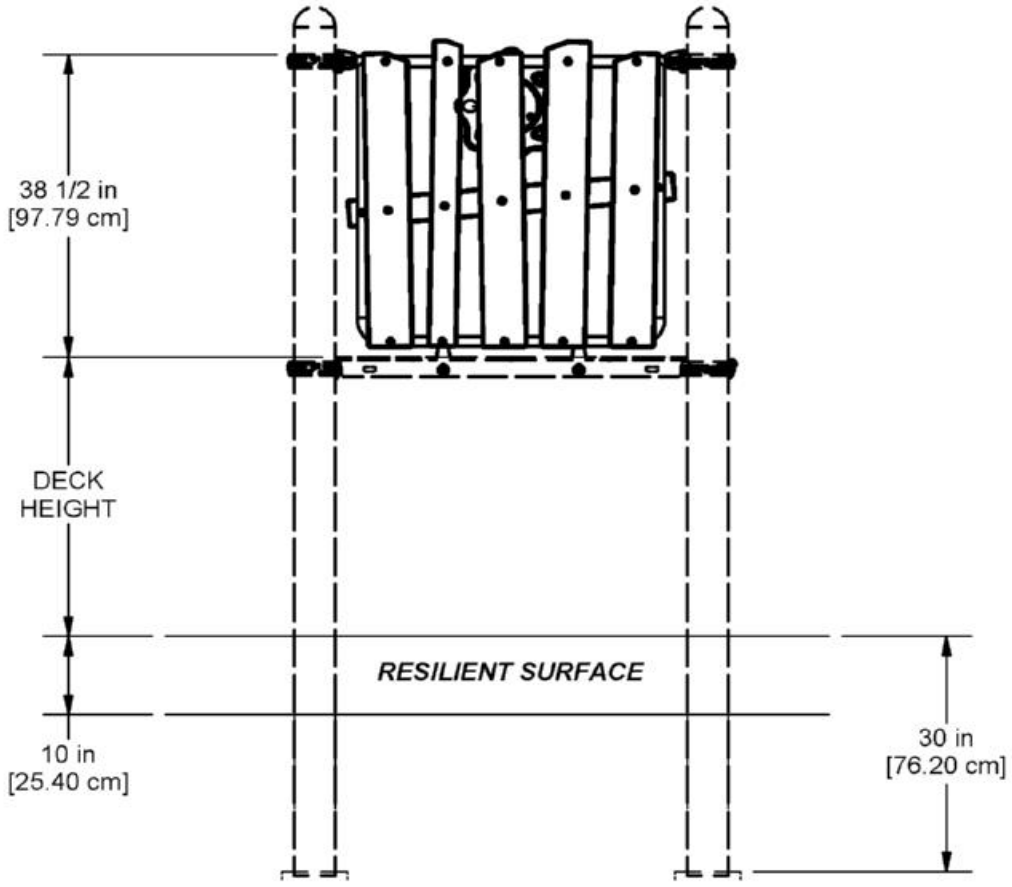
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 10/17/2022

71514 SLAT BARRIER w/RAIN WHEEL

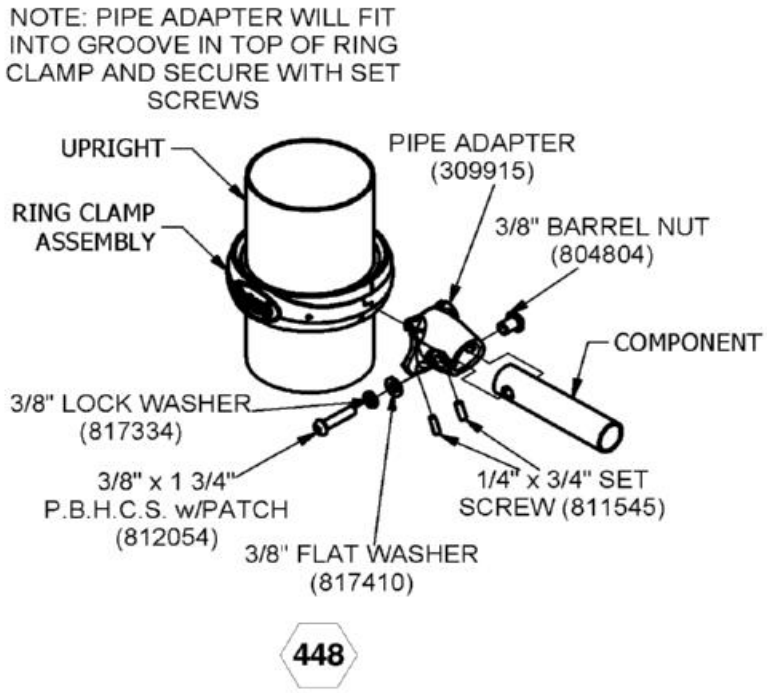


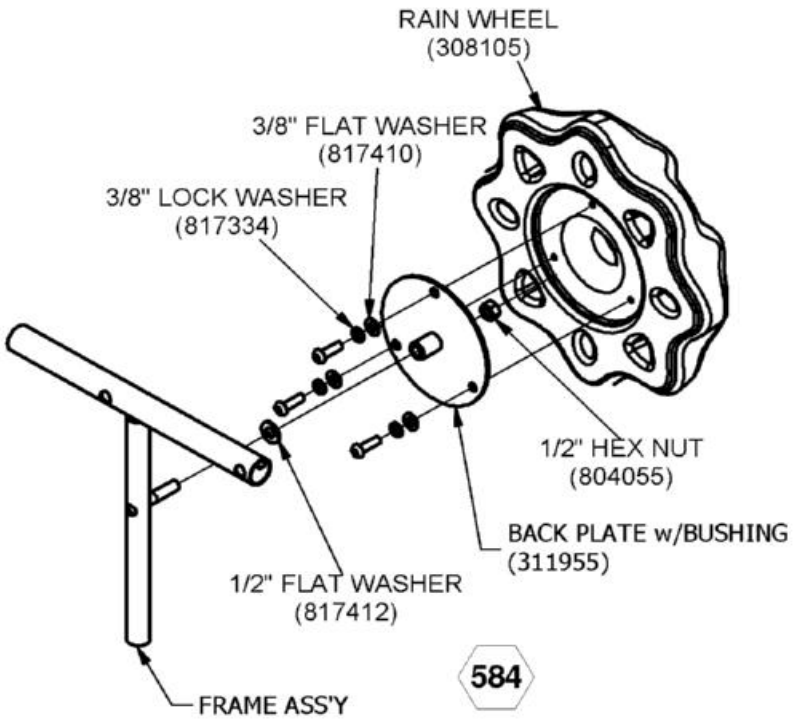
PLAN VIEW

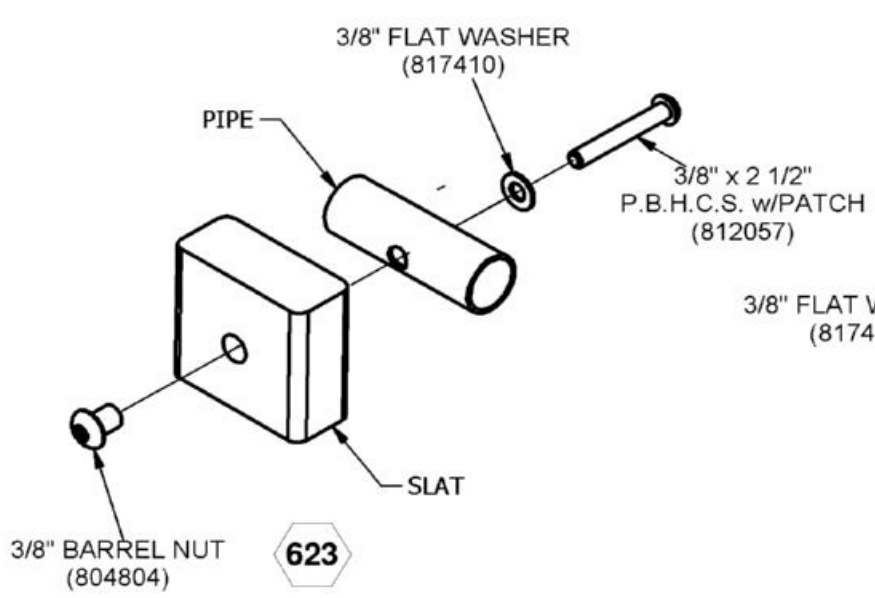


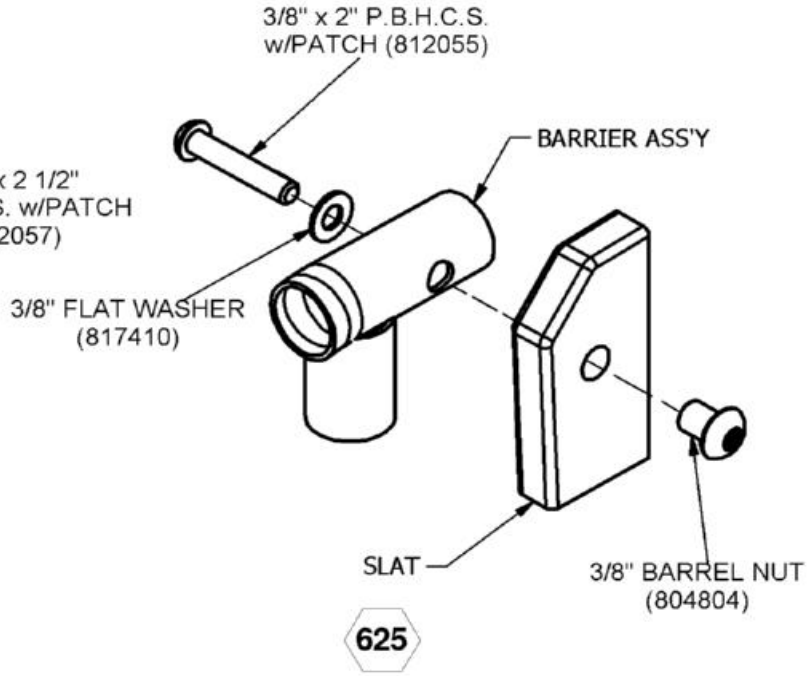
ELEVATION VIEW

71514 SLAT BARRIER w/RAIN WHEEL

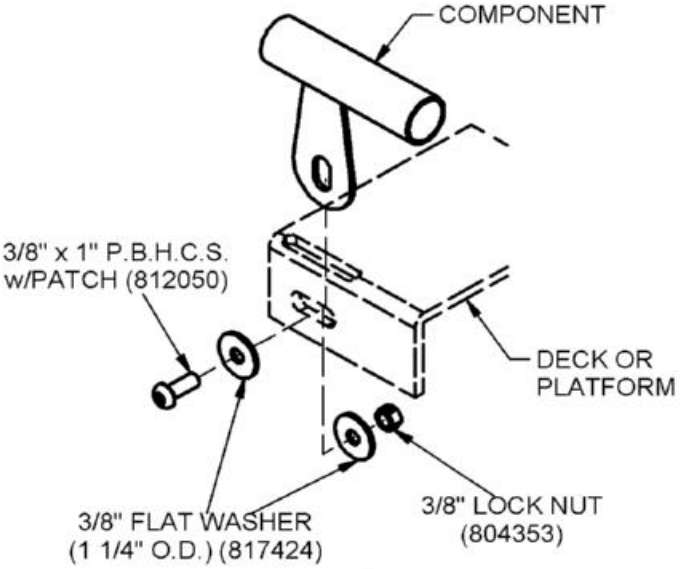




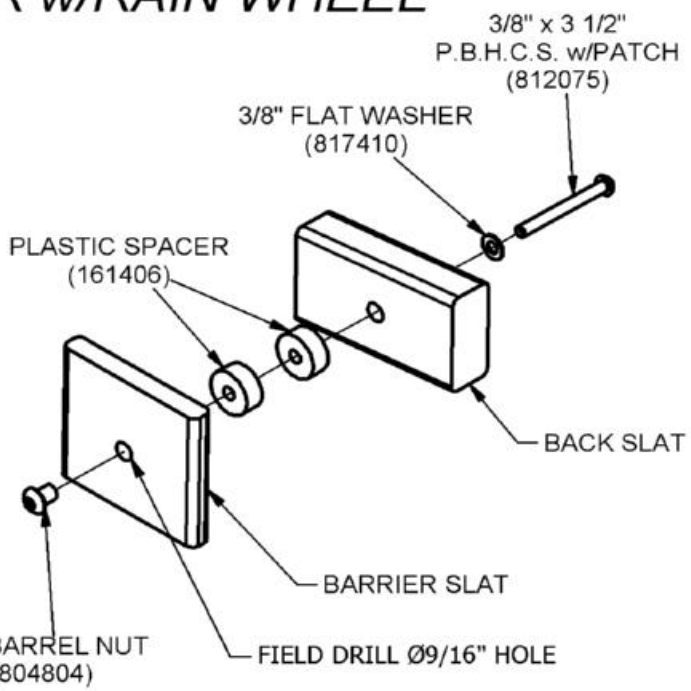




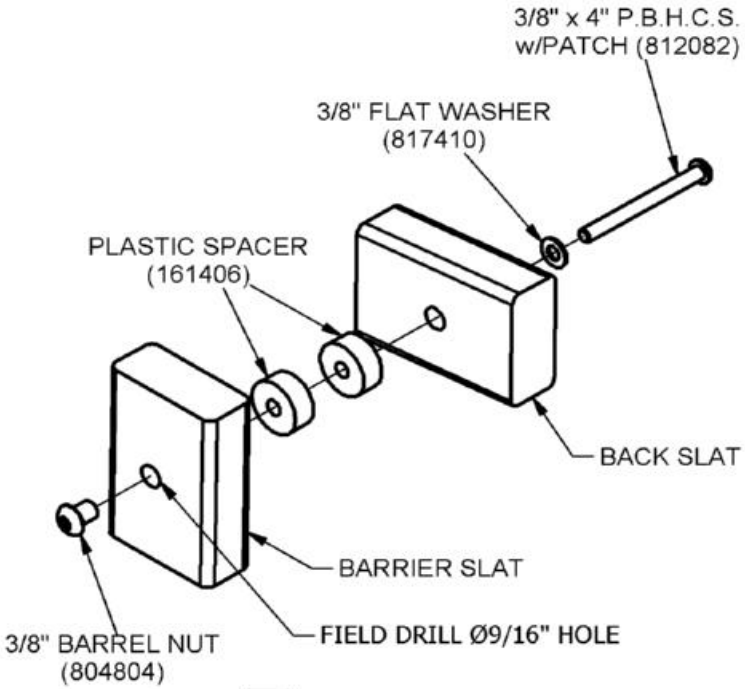
71514 SLAT BARRIER w/RAIN WHEEL



630



657



658

SuperMax Play Systems

71530 LABYRINTH LINK w/TREE

Parts List		
DESCRIPTION	QTY	PART NUMBER
OFFSET ENTRY ARCHWAY	1	310071
LABYRINTH LINK	1	178270
LABYRINTH LINK TREE ASSEMBLY	1	312018
PIPE ADAPTER	2	309915
RING HALF CLAMP	6	309913
5" O.D. CABLE CLAMP	3	308359
3 1/2" DOME CAP	3	212995
HARDWARE COMPLETE	1	312059
3/8" x 3/4" P.B.H.C.S. w/PATCH	1	812052*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	12	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" BARREL NUT	2	804804*
3/8" FLAT WASHER	14	817410*
3/8" LOCK WASHER	2	817334*
3/8" HEAVY HEX NUT	12	804200*
3/8" FLAT WASHER (1 1/4" O.D.)	26	817424*
3/8" LOCK NUT	1	804353*
1/4" x 3/4" SET SCREW	4	811545*
1/4" x 1" DRIVE RIVET	6	805302*
1" O.D. NYLON BUSHING	18	166496*
3/16" x 13/32" DRIVE RIVET	6	805366*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which decks are to receive the Labyrinth Link with Tree and Offset Entry Archway. Refer to Plan View for location.
2. Attach Caps to Tree Assembly using 3/16" x 13/32" Drive Rivet as shown in Detail 597. Loosely attach Ring Clamps to Uprights at noted height. See Ring Clamp Installation Sheet.
3. Loosely attach all Ring Half Clamps and Cable Clamps to the Uprights using 3/8" x 1 1/4" P.B.H.C.S. w/ Patch, 3/8" Flat Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Heavy Hex Nut. See Detail 475.
4. Attach Entry Archway to Pipe Adapter using 3/8" x 1 3/4" P.B.H.C.S. w/ Patch , 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.
5. Attach the tab on bottom of Offset Entry Archway to edge of deck using 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lock Nut, and 3/8" (1 1/4" O.D.) Flat Washer. See Detail 026. Note: Make sure Offset Entry Archway is plumb and level before tightening all fasteners.
6. Attach Labyrinth Link to the correct clamp on the upright using clevises and 1" Nylon Bushings. See Detail 284.
7. Attach Labyrinth Link to Labyrinth Tree Assembly using clevises and 1" Nylon Bushings. See Detail 629.

71530 LABYRINTH LINK w/TREE

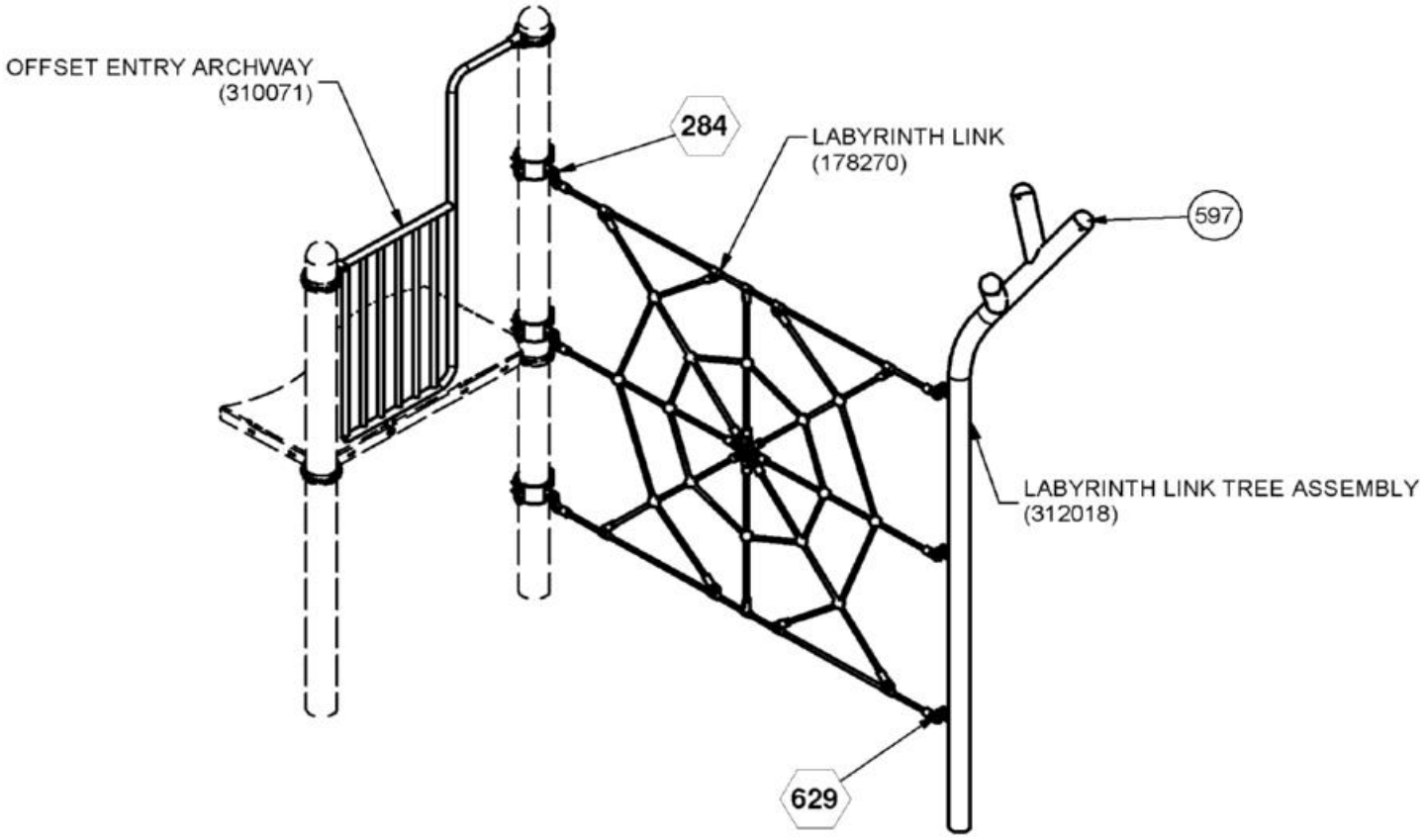
8. Plumb and level the entire assembly and tighten all fasteners.

9. After entire unit is assembled pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

10. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

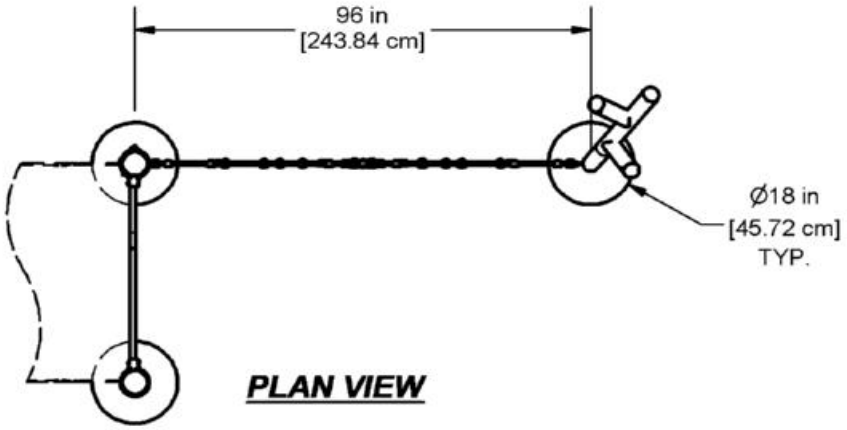


COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

⬡ = INSTALLATION DETAIL

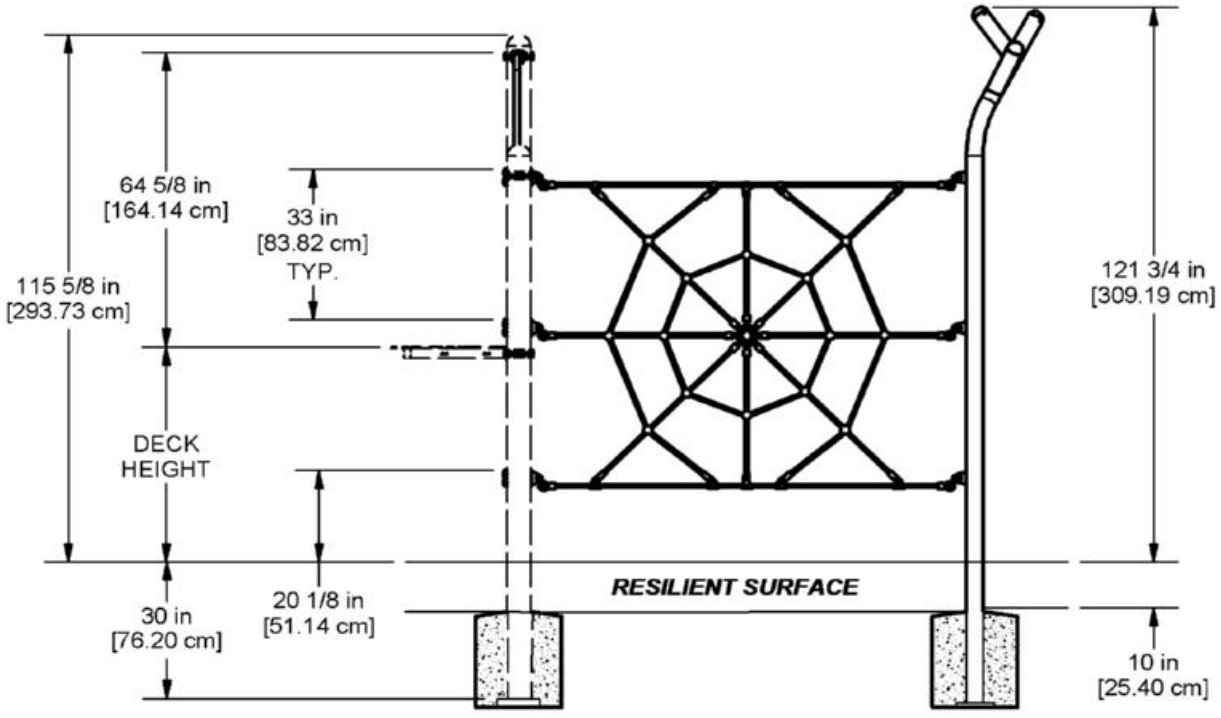
FINISHED ASSEMBLY

71530 LABYRINTH LINK w/TREE

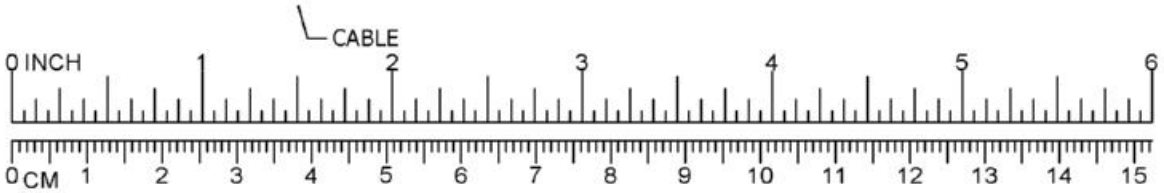


PLAN VIEW

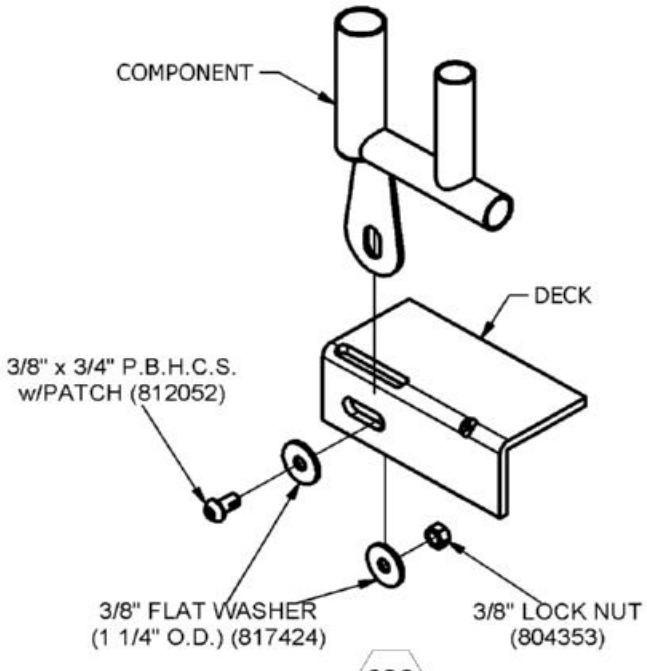
CONCRETE REQUIRED
0.115 CUBIC YARDS
0.088 [CUBIC METERS]



ELEVATION VIEW

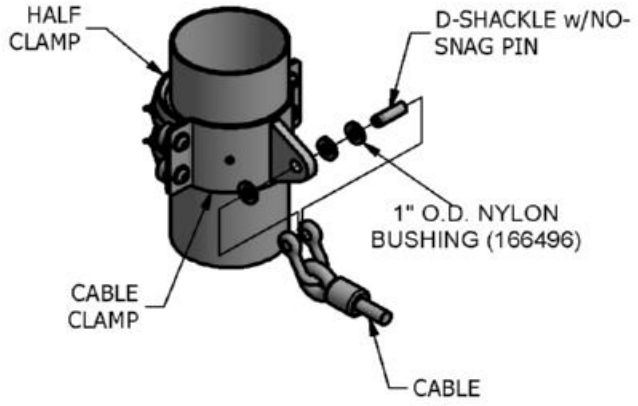


71530 LABYRINTH LINK w/TREE



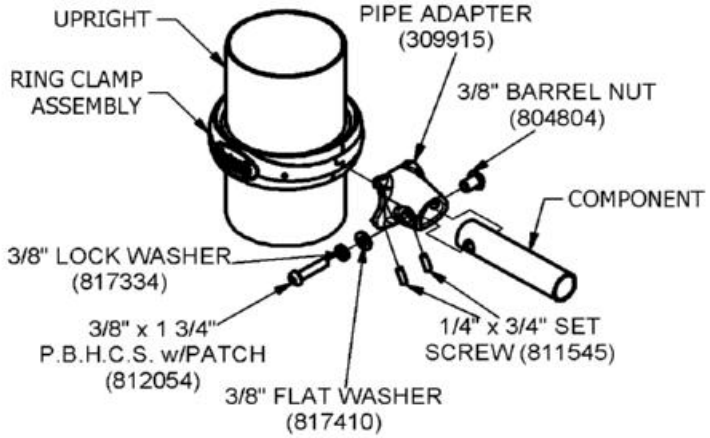
026

REMINDER: STAINLESS STEEL THREAD LOCKER (SUPPLIED BY OTHERS) IS REQUIRED FOR SHACKLE PIN.

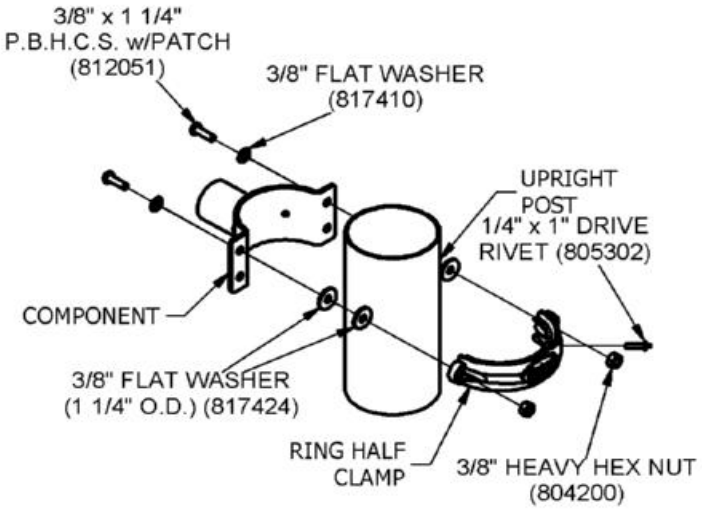


284

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



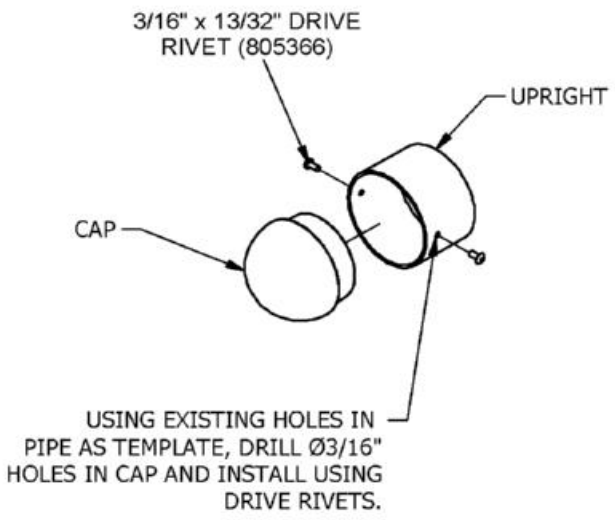
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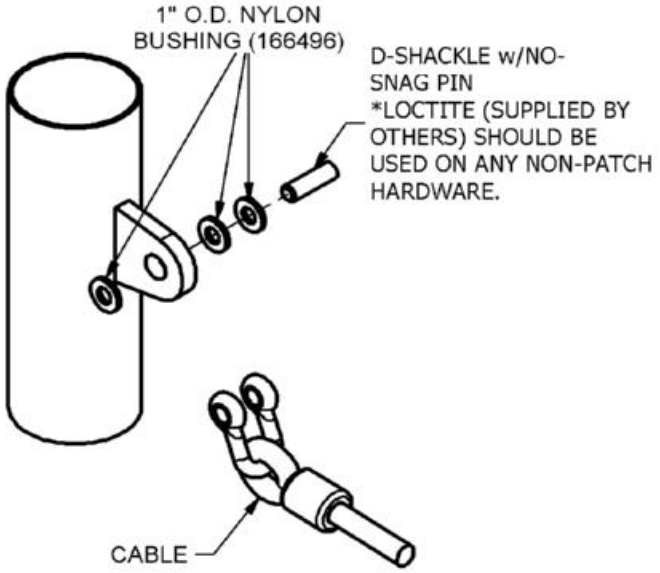


475

REMINDER: STAINLESS STEEL THREAD LOCKER (SUPPLIED BY OTHERS) IS REQUIRED FOR SHACKLE PIN.

71530 LABYRINTH LINK w/TREE





597

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS

Parts List		
DESCRIPTION	QTY	PART NUMBER
SLAT 1 (117 1/8" LG.)	1	311874
SLAT 2 (111 3/4" LG.)	1	311875
SLAT 3 (97 1/8" LG.)	1	311876
SLAT 4 (100 15/16" LG.)	1	311877
SLAT 5 (89 1/2" LG.)	1	311878
SLAT 6 (82 5/8" LG.)	1	311879
SLAT 7 (77 7/8" LG.)	1	311880
SLAT 8 (68 5/8" LG.)	1	311881
SLAT 9 (63 9/16" LG.)	1	311882
SLAT 10 (117 13/16" LG.)	1	311883
MIDDLE SUPPORT 1 (75" LG.)	1	312229
MIDDLE SUPPORT 2 (70" LG.)	1	312230
SIDE SUPPORT (75 1/8" LG.)	1	311888
SIDE SUPPORT 2 (83 1/8" LG.)	1	311889
TOP SUPPORT (80 1/8" LG.)	1	311890
TOP SUPPORT 2 (82 1/8" LG.)	1	311891
SLAT MIDDLE SUPPORT 1 (106 5/8" LG.)	1	311885
SLAT MIDDLE SUPPORT 2 (71 15/16" LG.)	1	311886
SLAT MIDDLE SUPPORT 3 (60 15/16" LG.)	1	311887
SHORT UPRIGHT EXTENSION ASSEMBLY	2	312171
LONG UPRIGHT EXTENSION ASSEMBLY	2	312167
HARDWARE COMPLETE	1	312137
3/8" x 3 3/4" P.B.H.C.S. w/PATCH	35	812076
3/8" x 4" P.B.H.C.S. w/PATCH	15	812082*
3/8" x 6 1/2" HEX HEAD BOLT	4	801028*
3/8" BARREL NUT	19	804804*
3/8" ACORN NUT	35	804002*
3/8" FLAT WASHER	89	817410*
1/4-20 x 3/4" SS SELF DRILLING SCREW	12	810072*
PLASTIC WASHER	4	304073*
PLASTIC SPACER	100	161406*
PLASTIC CAP	4	304074*
#10 x 3" WOOD SCREW	31	815511
#10 x 2 1/2" WOOD SCREW	34	815512

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive Half Hex Slat Roof.
2. Attach Top Support to Side Suppport using #10 x 3" Wood Screws. See Detail 642. *(Repeat for Top Support 2 and Side Support 2)*. Refer to Auxiliary View for dimensions.
3. Attach Slat Middle Support 1 to Side Support 1 and 2 using #10 x 2" Wood Screws. See Detail 646. *(Repeat for Slat Middle Support 3)*.
4. Attach Slat 1, 3, 4, 6, 8, 9, 10 to Top Support, Slat Middle Support 2, and Top Support 2 using 3/8" x 3 3/4"" P.B.H.C.S. w/Patch, 3/8" Flat Washer, Plastic Spacer, and 3/8" Acorn Nut. See Detail 645.
5. Attach Slat 2, 5, 7 to Top Support, Slat Middle Support 2, and Top Support 2 using 3/8" x 4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, Plastic Spacer, and 3/8" Barrel Nut. See Detail 644.
6. Attach Slat Middle Support 2, Middle Support 1, and Middle Support 2 to Slat Middle Support 1 and 3 using #10 x 2 1/2" Wood Screw. See Detail 646.
7. Attach Upright Extensions to Uprights using Self Drilling Screws. See Detail 647.
8. Attach Half Hex Slat Roof to Upright Extensions using 3/8" x 6 1/2" Hex Head Bolt, 3/8" Flat Washer, 3/8" Barrel Nut, Plastic Washer, and Plastic Cap. See Detail 643.
9. Plumb and level the entire assembly and tighten all fasteners.

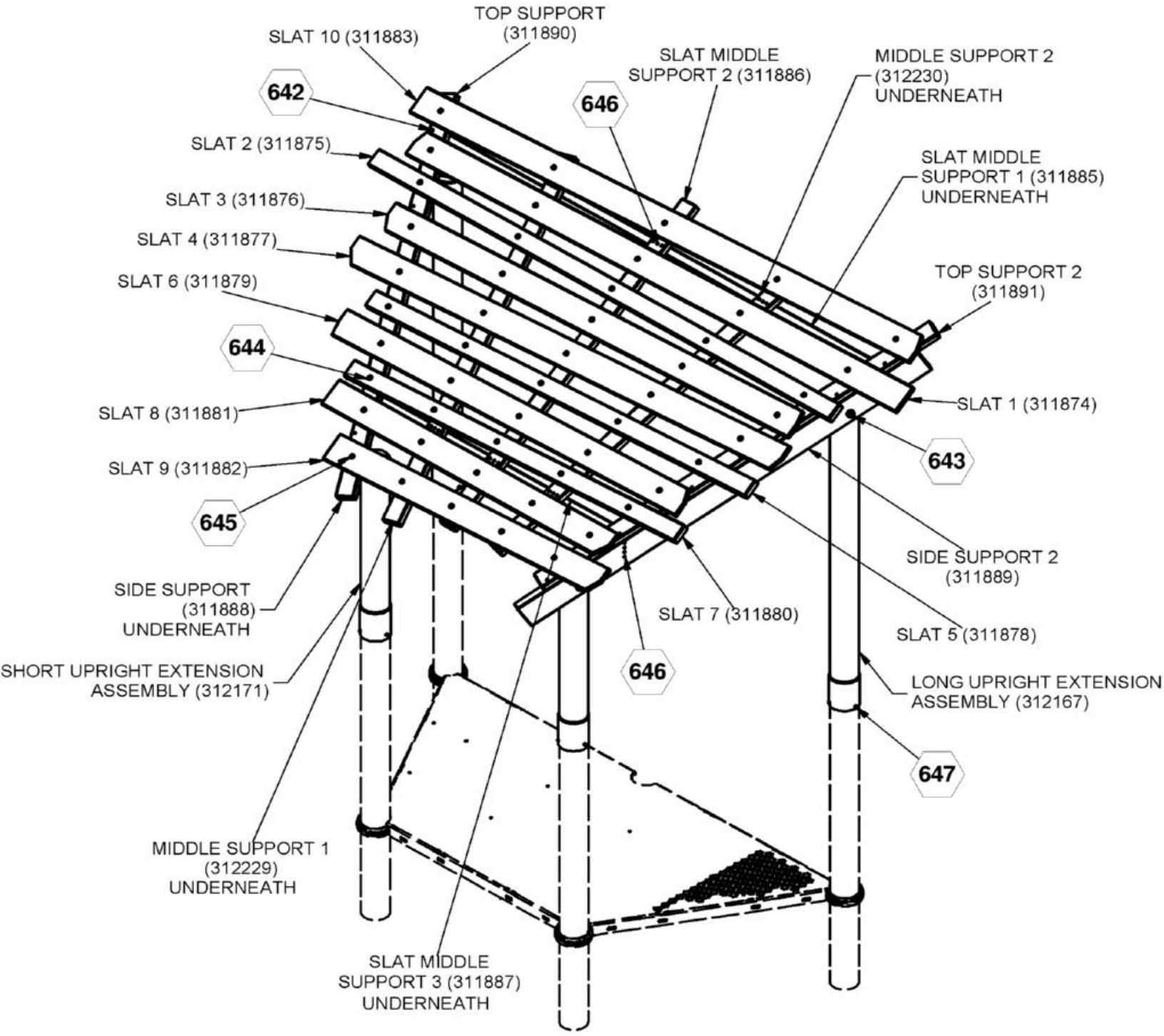
IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

10. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS



FINISHED ASSEMBLY

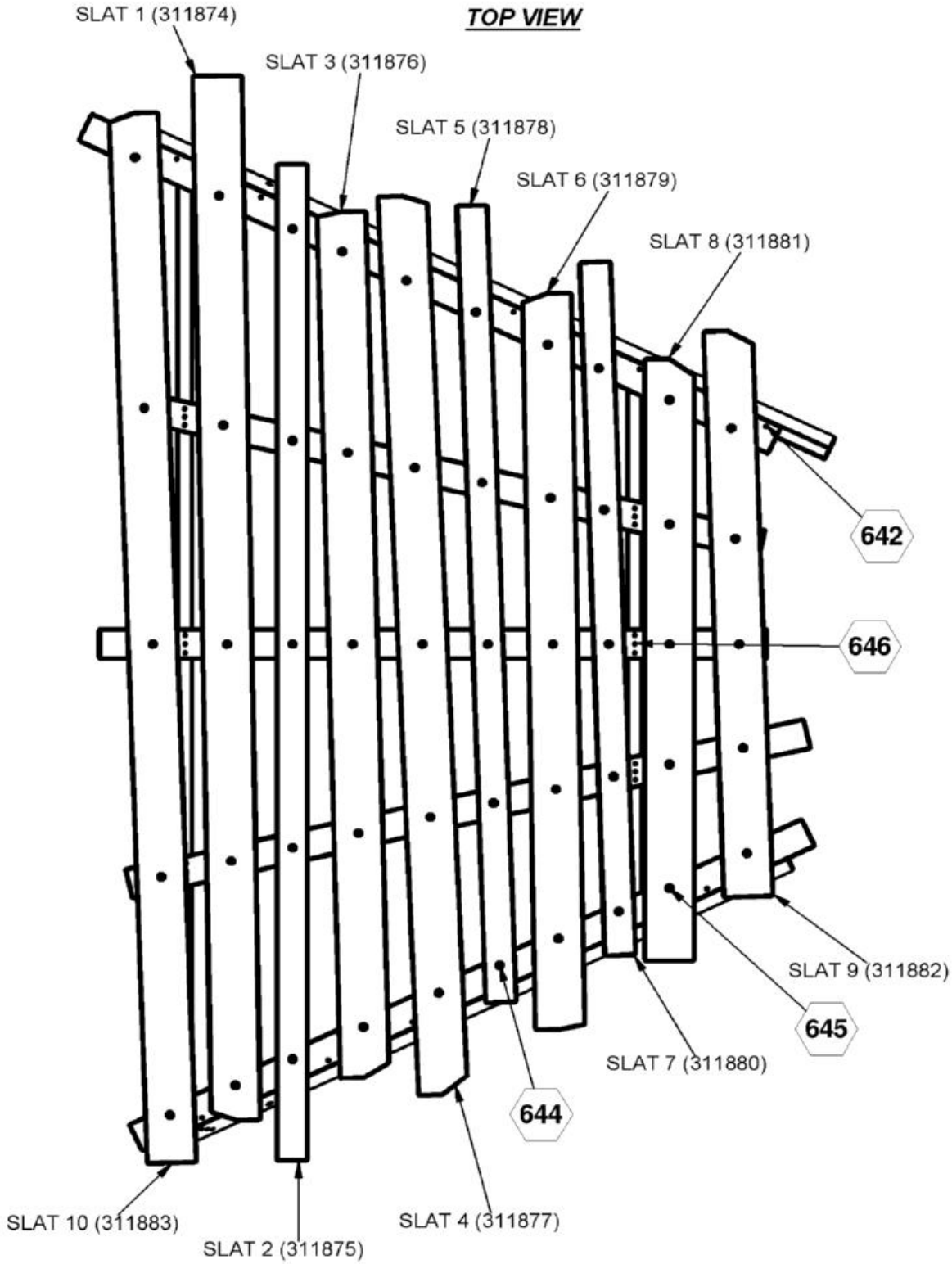
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 4/7/2022

play&park structures A PLAYCORE Company

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS



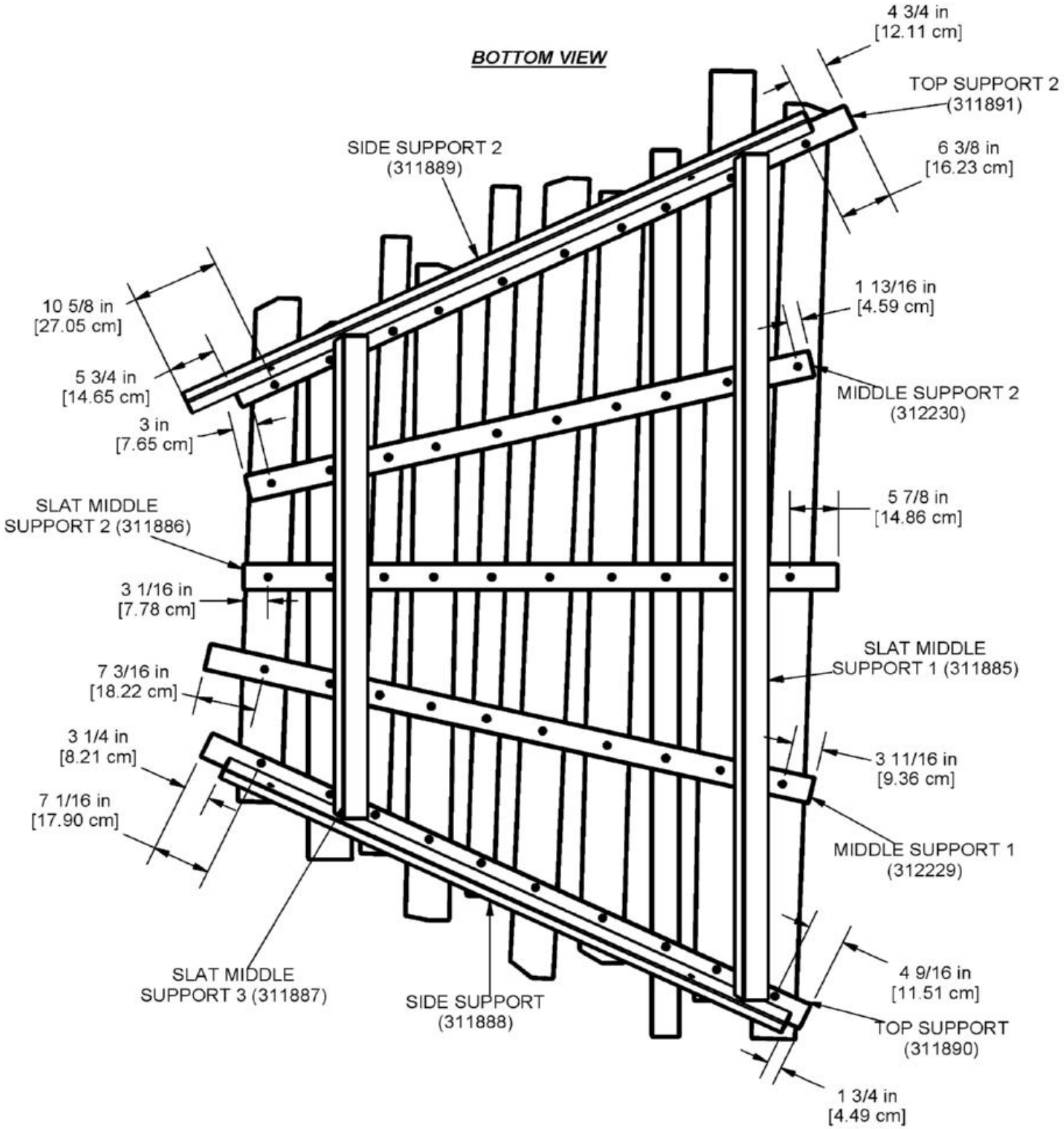
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AUXILIARY VIEW

Issued/Revised: 4/7/2022

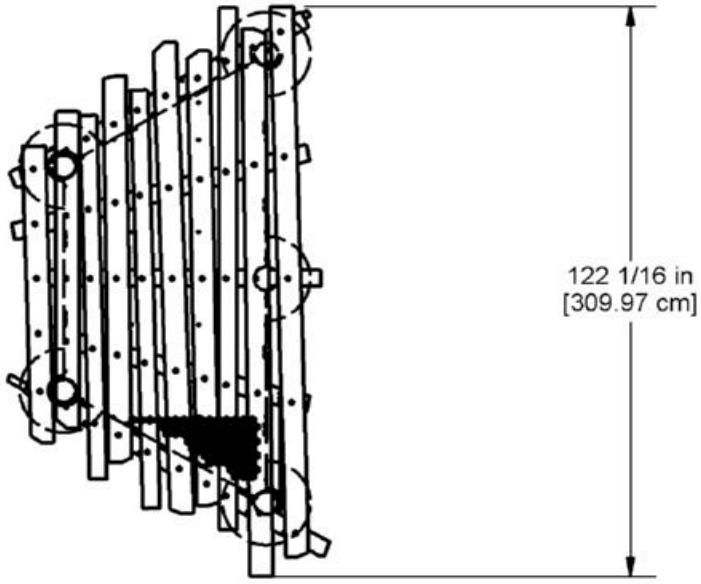
play&park structures A PLAYCORE Company

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS

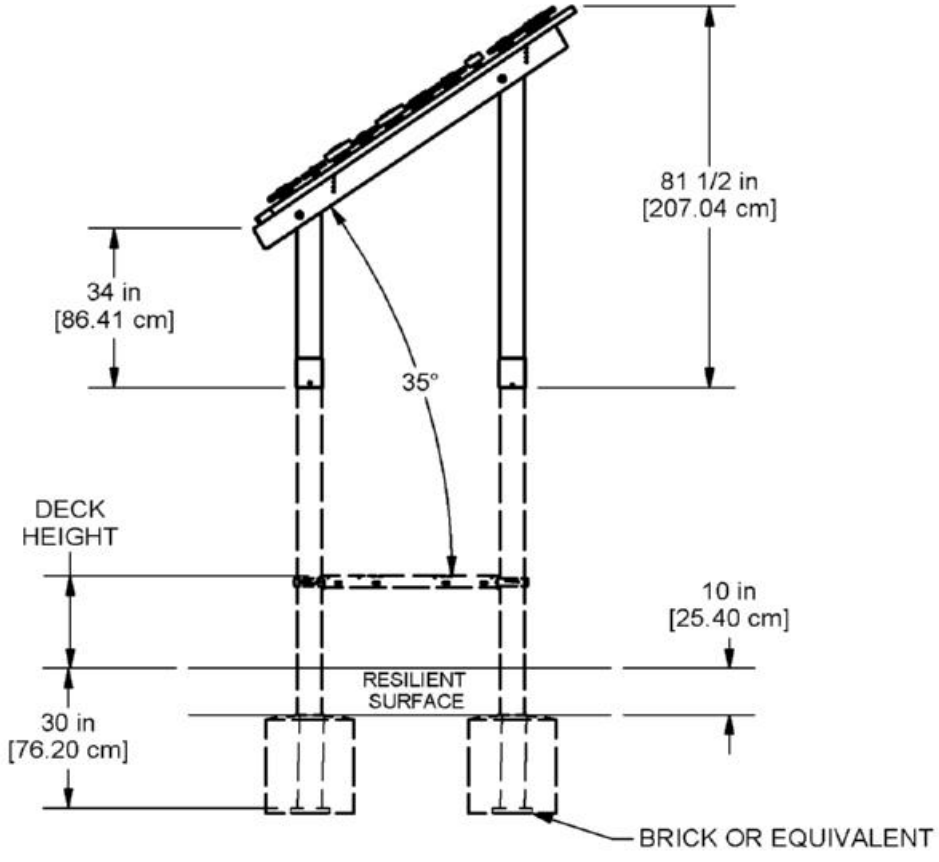


AUXILIARY VIEW

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS

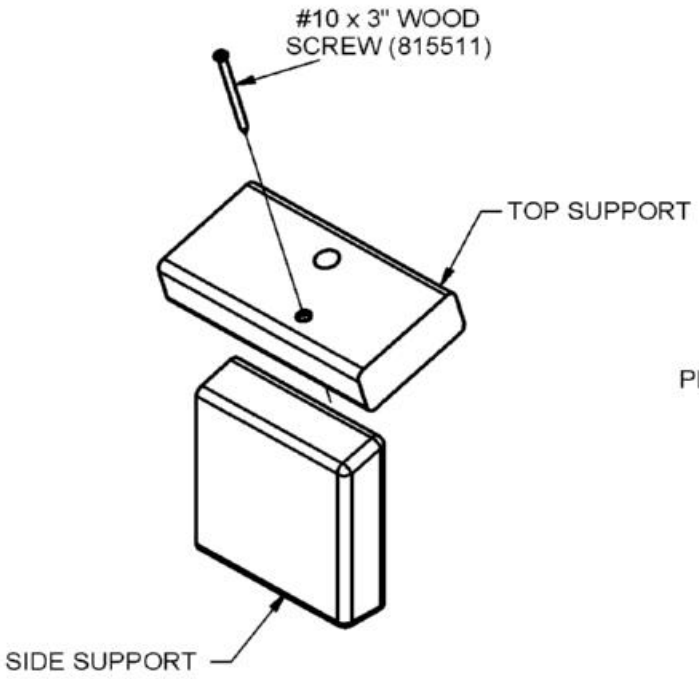


PLAN VIEW

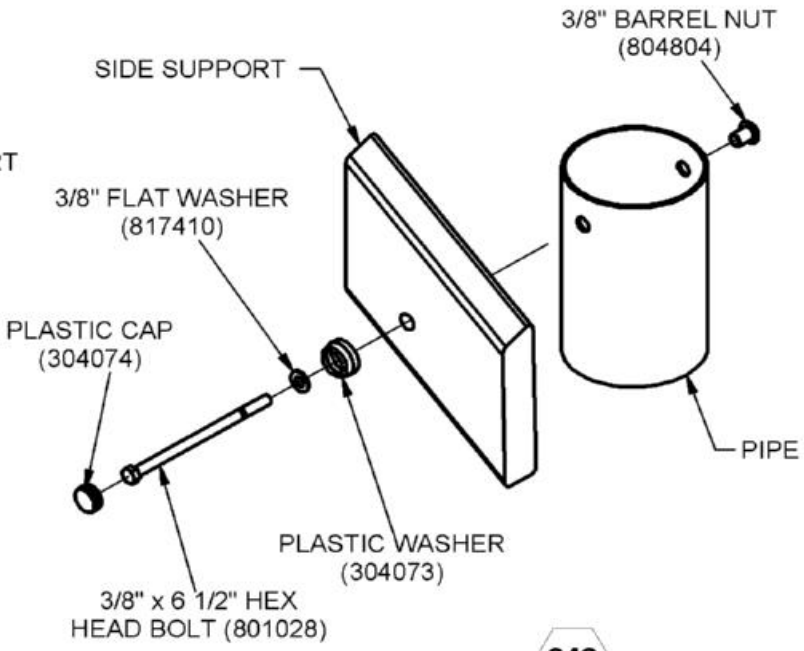


ELEVATION VIEW

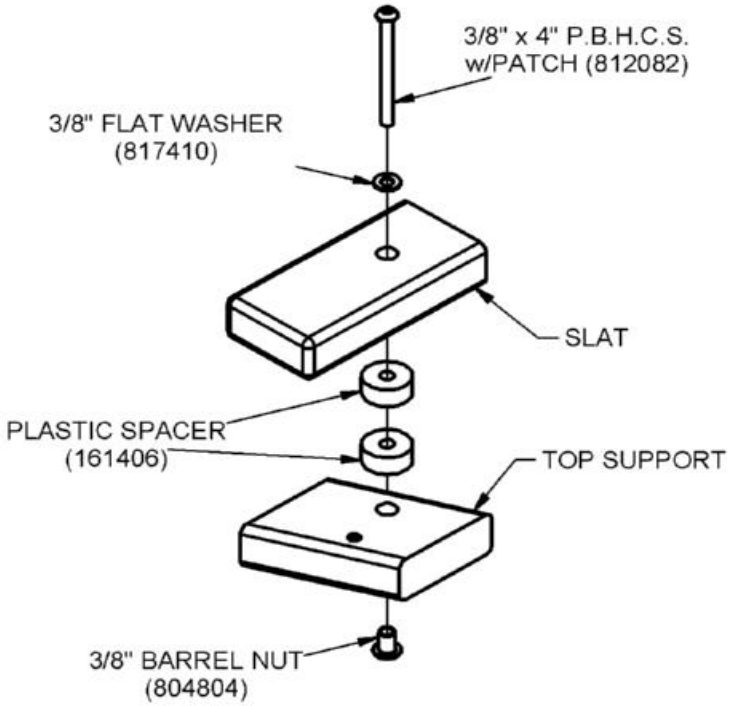
71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS



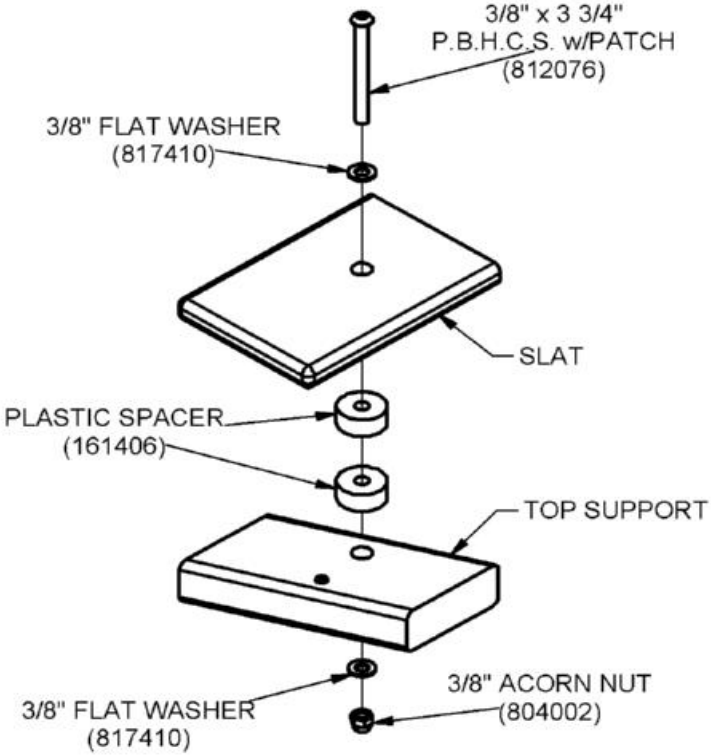
642



643

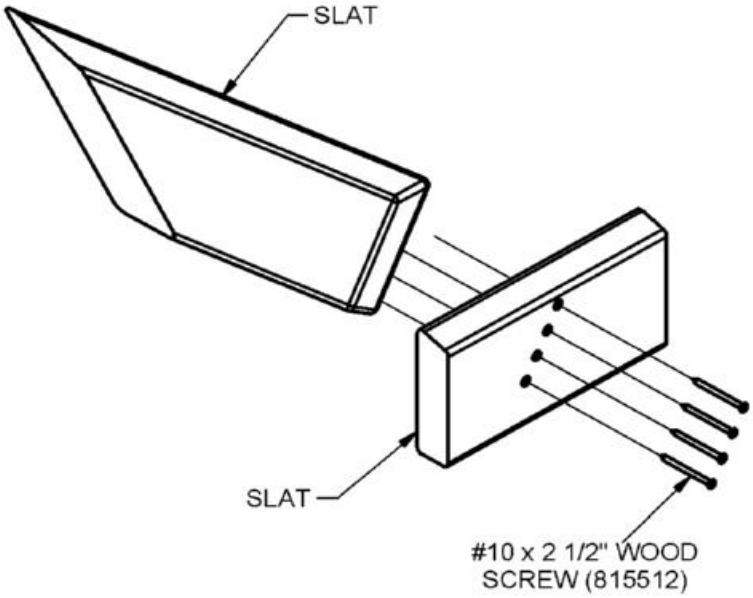


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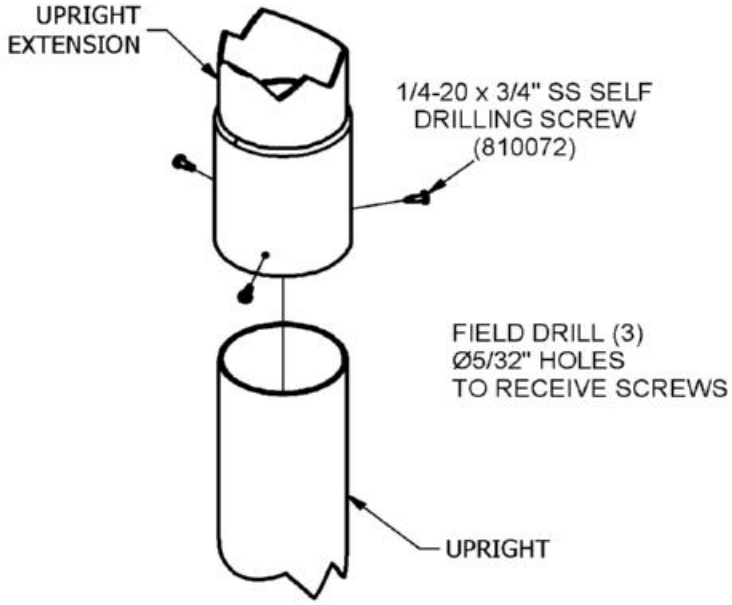


645

71532 HALF HEX SLAT ROOF w/ UPRIGHT EXTENSIONS



646



647

SuperMax Play Systems

71534 POTTER'S BENCH

Parts List		
DESCRIPTION	QTY	PART NUMBER
PLANTER-BENCH	1	312063

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which opening is to receive the Planter- Bench, and dig footing holes as shown in Elevation and Plan Views.

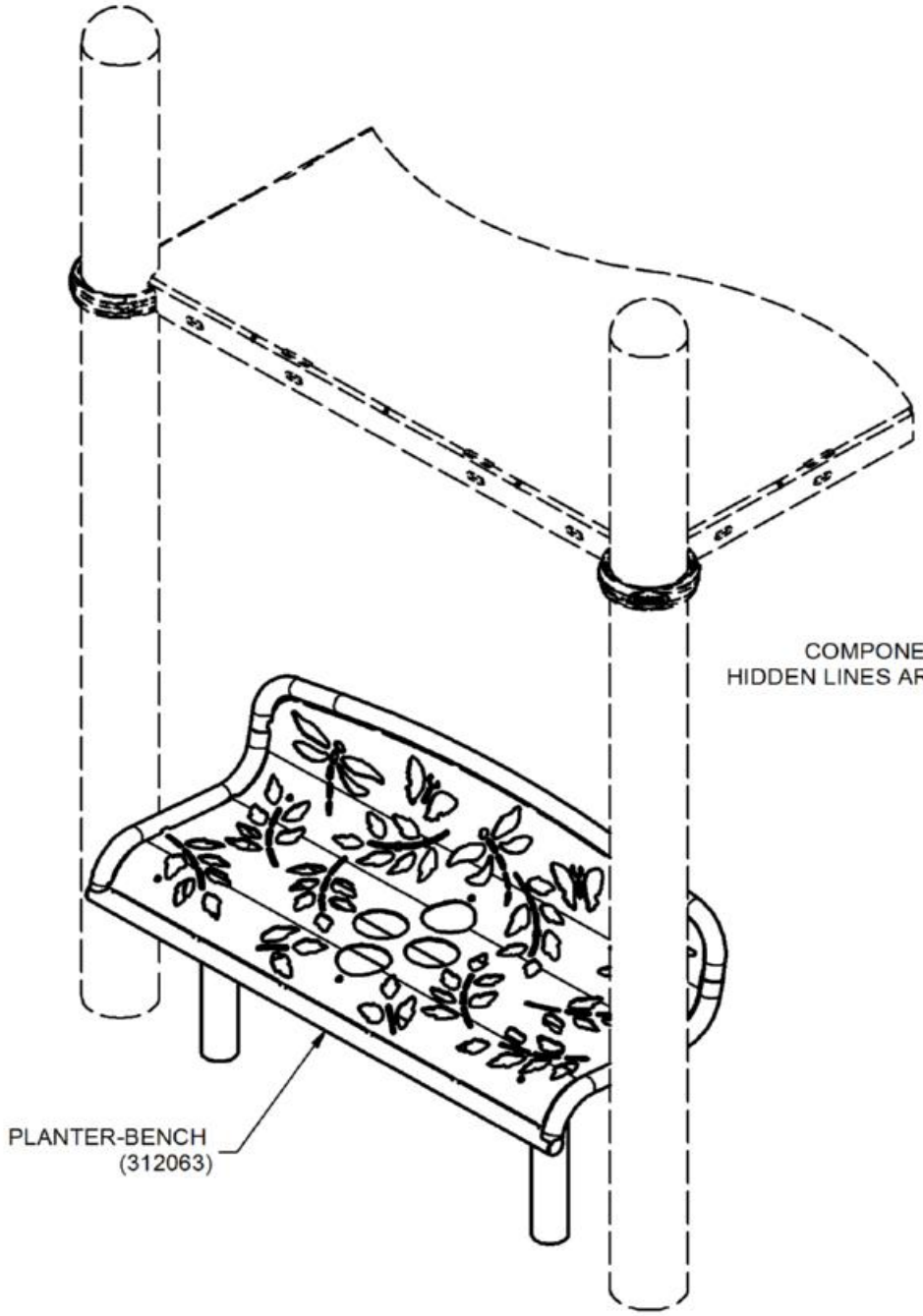
2. Place the Planter-Bench in the center of the footing holes and plumb and level the entire assembly. Pour concrete footings within 4" to the top and taper away from support to allow drainage. Allow to cure at least 48 hours before use.

3. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

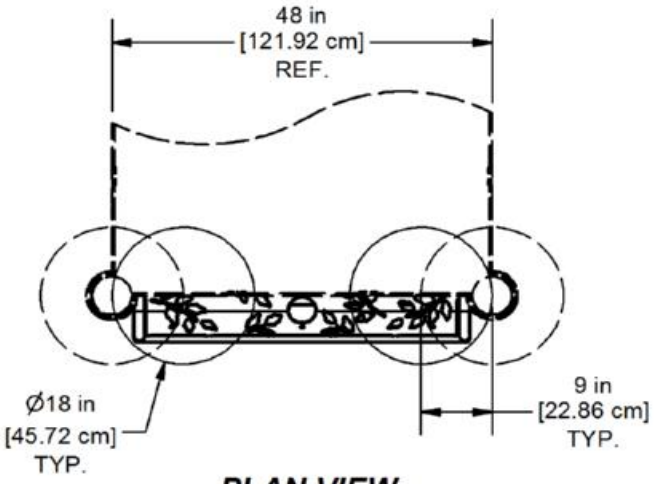
71534 POTTER'S BENCH



FINISHED ASSEMBLY

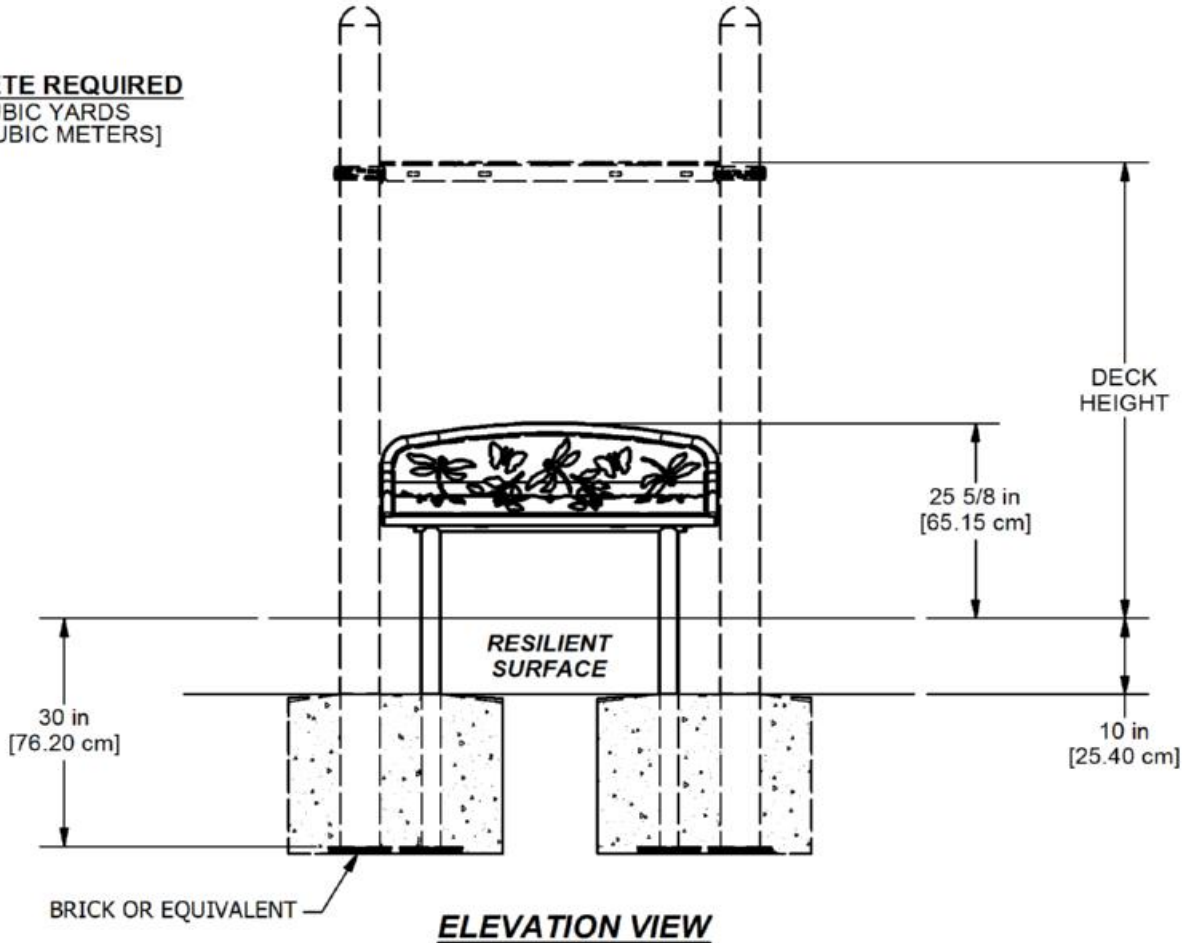
⬡ = INSTALLATION DETAIL

71534 POTTER'S BENCH



PLAN VIEW

CONCRETE REQUIRED
0.23 CUBIC YARDS
0.18 [CUBIC METERS]



ELEVATION VIEW

SuperMax Play Systems

71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER

Parts List										
DESCRIPTION	71550	71551	71552	71524	71553	71554	71555	71556	71529	PART NUMBER
ATTACHMENT PIPE	2	2	2	2	2	2	2	2	2	177724
PIPE ADAPTER	2	2	2	2	2	2	2	2	2	309915
ENTRY ARCHWAY	1	1	1	1	1	1	1	1	1	312007
SLAT	2	3	3	4	4	5	6	6	7	312008
BARRIER SLAT	2	2	2	2	2	2	2	2	2	312227
LADDER CHAIN	2	0	0	0	0	0	0	0	0	312151
LADDER CHAIN	0	2	0	0	0	0	0	0	0	312154
LADDER CHAIN	0	0	2	0	0	0	0	0	0	312156
LADDER CHAIN	0	0	0	2	0	0	0	0	0	312009
LADDER CHAIN	0	0	0	0	2	0	0	0	0	312158
LADDER CHAIN	0	0	0	0	0	2	0	0	0	312160
LADDER CHAIN	0	0	0	0	0	0	2	0	0	312162
LADDER CHAIN	0	0	0	0	0	0	0	2	0	312174
LADDER CHAIN	0	0	0	0	0	0	0	0	2	312013
HARDWARE COMPLETE	1	0	0	0	0	0	0	0	0	312176
HARDWARE COMPLETE	0	1	1	0	0	0	0	0	0	312177
HARDWARE COMPLETE	0	0	0	1	1	0	0	0	0	311965
HARDWARE COMPLETE	0	0	0	0	0	1	0	0	0	312180
HARDWARE COMPLETE	0	0	0	0	0	0	1	1	0	312181
HARDWARE COMPLETE	0	0	0	0	0	0	0	0	1	311972
1/4" x 3/4" SET SCREW	4	4	4	4	4	4	4	4	4	811545*
3/8" x 1" HEX HEAD BOLT - SS	2	2	2	2	2	2	2	2	2	801003*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	2	2	2	2	2	2	2	2	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	6	8	8	10	10	12	14	14	16	812054*
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	4	4	4	4	4	4	4	4	4	812057*
3/8" LOCK WASHER	4	4	4	4	4	4	4	4	4	817334*
3/8" FLAT WASHER	16	18	18	20	20	22	24	24	26	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	4	4	4	4	4	4	4	4	4	817424*
3/8" LOCK NUT	4	4	4	4	4	4	4	4	4	804353*
3/8" BARREL NUT	10	12	12	14	14	16	18	18	20	804804*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Rope Ladder. Refer to Top View drawing for location.
2. Attach Ring Clamps at required locations shown in Elevation View. See Ring Clamp installation sheet.
3. Attach Pipe Adapters to Entry Archway using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.
4. Hook the Pipe Adapters onto the Ring Clamps and attach using 1/4" x 3/4" Set Screws as shown in Detail 448.
5. Attach Barrier Slats to Entry Archway using 3/8" x 2 1/2" P.B.H.C.S. w/Patch 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 623.
6. Attach Slat to Ladder Chain using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 653. See Auxiliary View for Slat Placement.
7. Attach Attachment Pipe to bottom of Ladder Chain using 3/8" x 1" Hex Bolt 3/8" Flat Washer, 3/8" Lock Washer, and 3/8" Lock Nut. See Detail 641.
8. Attach Entry Archway and Ladder Chain to deck using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, (1 1/4" O.D.), 3/8" Flat Washer, and 3/8" Lock Nut. See Detail 654.
9. Plumb and level the entire assembly and tighten all fasteners.

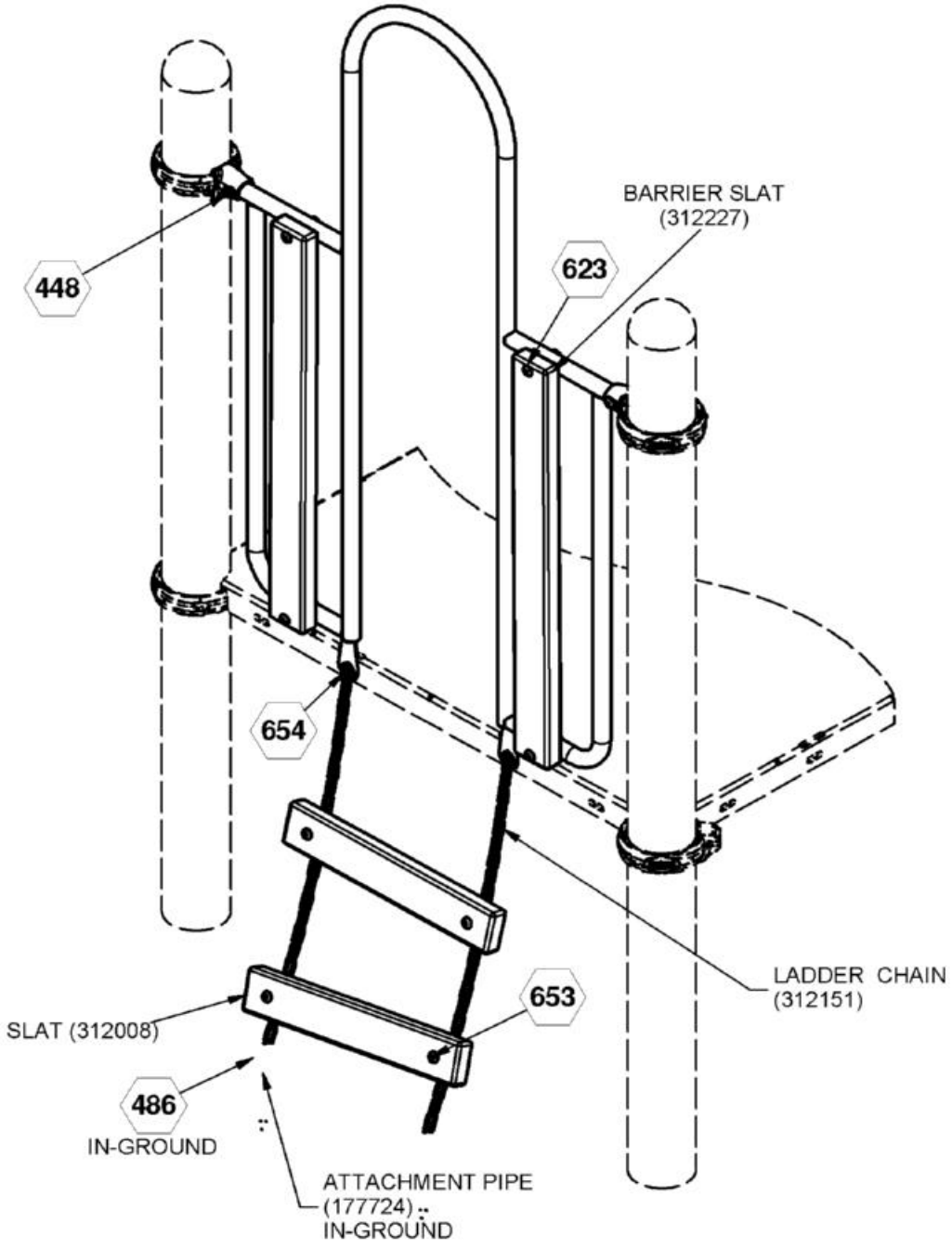
IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

10. After entire unit is assambled pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
11. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER

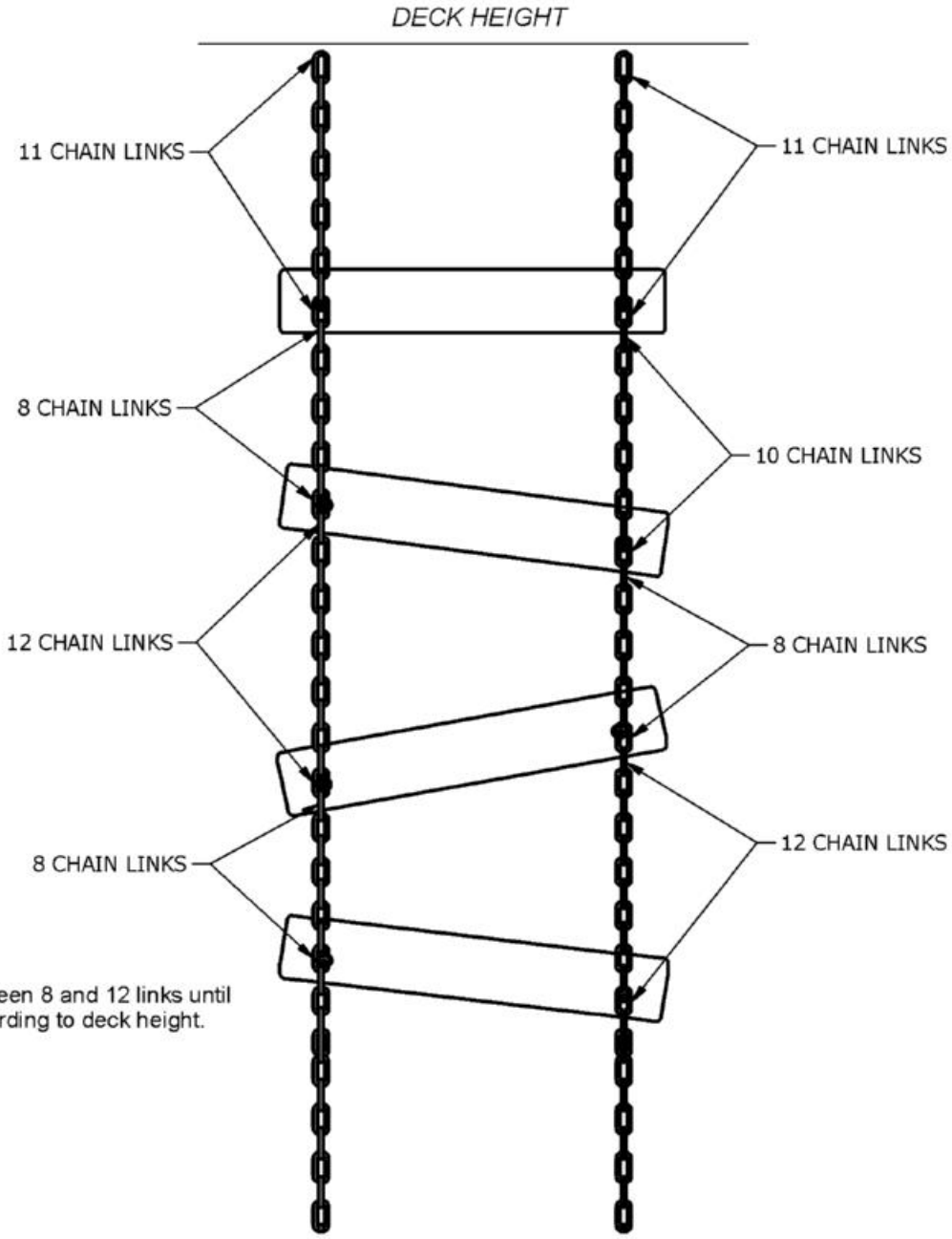


⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
71550 SHOWN

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

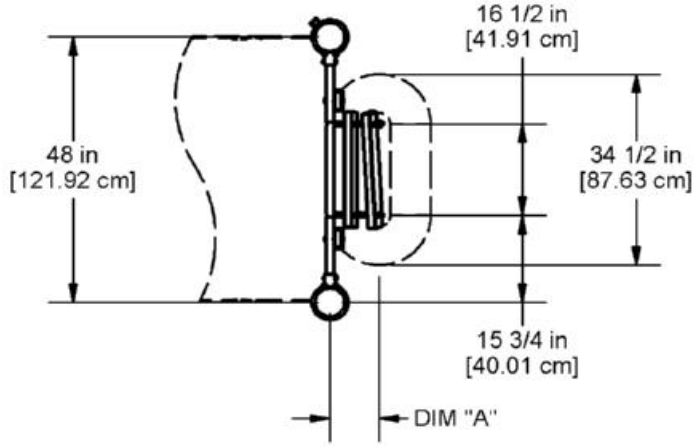
71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER



NOTE: Alternate between 8 and 12 links until all slats are used according to deck height.

AUXILIARY VIEW
71524 SHOWN

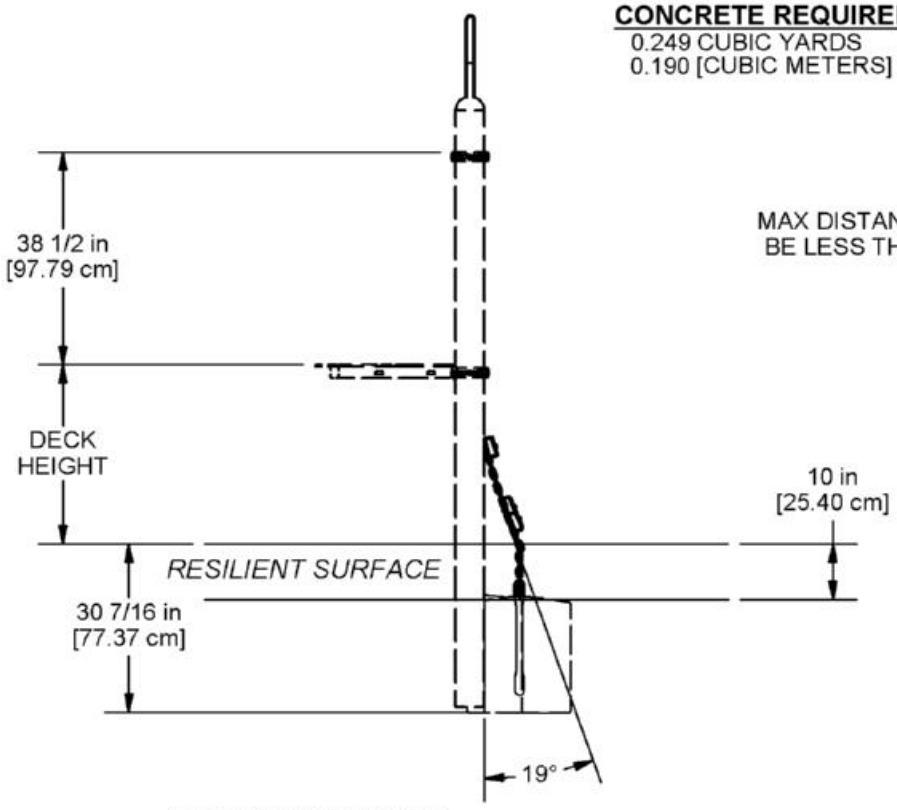
71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER



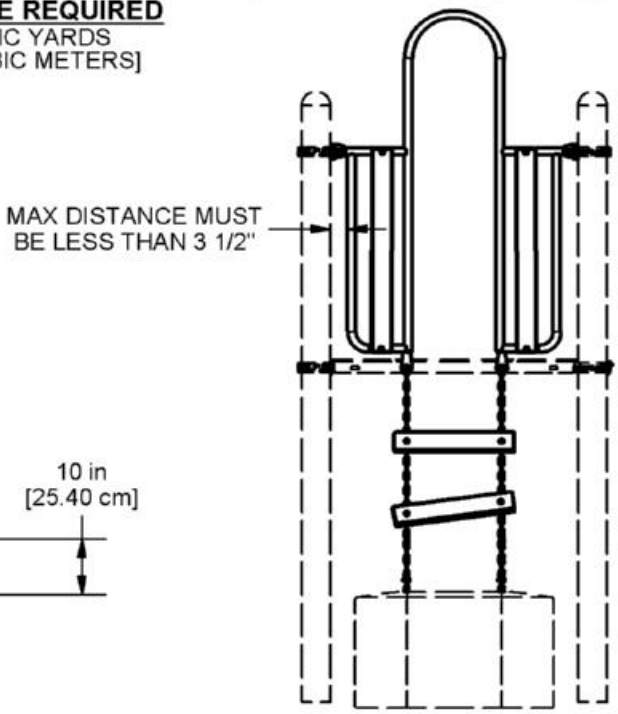
PLAN VIEW

PART NO.	DIM "A"
71550	8 1/2" [21.6 cm]
71551	16 5/8" [42.2 cm]
71552	12 13/16" [32.5 cm]
71524	15" [38.1 cm]
71553	17 13/16" [43.7 cm]
71554	19 3/8" [49.3 cm]
71555	29 1/8" [73.9 cm]
71556	23 5/8" [60.0 cm]
71529	25 5/8" [65.1 cm]

CONCRETE REQUIRED
0.249 CUBIC YARDS
0.190 [CUBIC METERS]

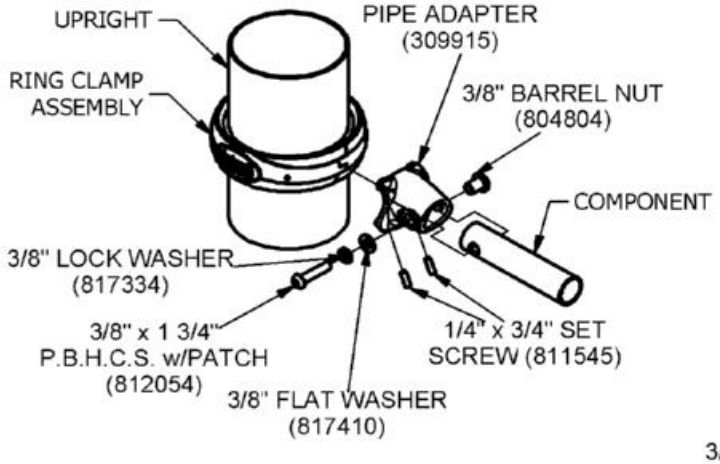


ELEVATION VIEW
71550 SHOWN

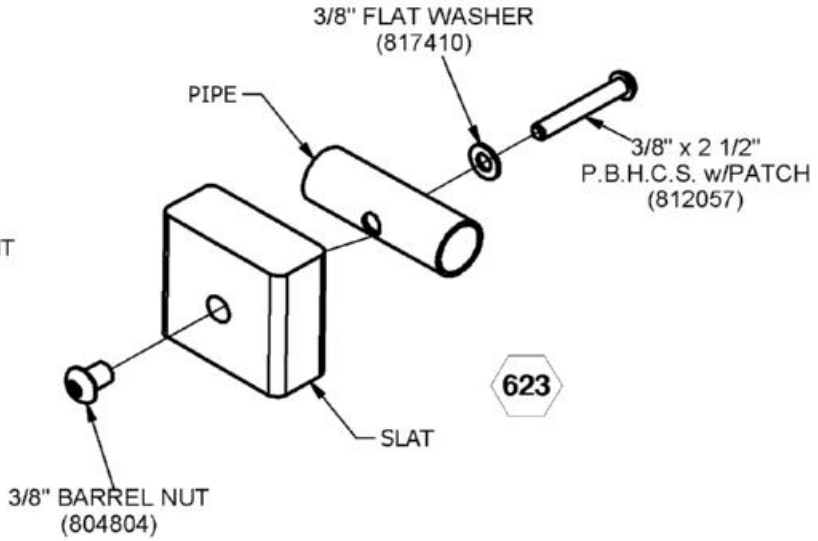


71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER

NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



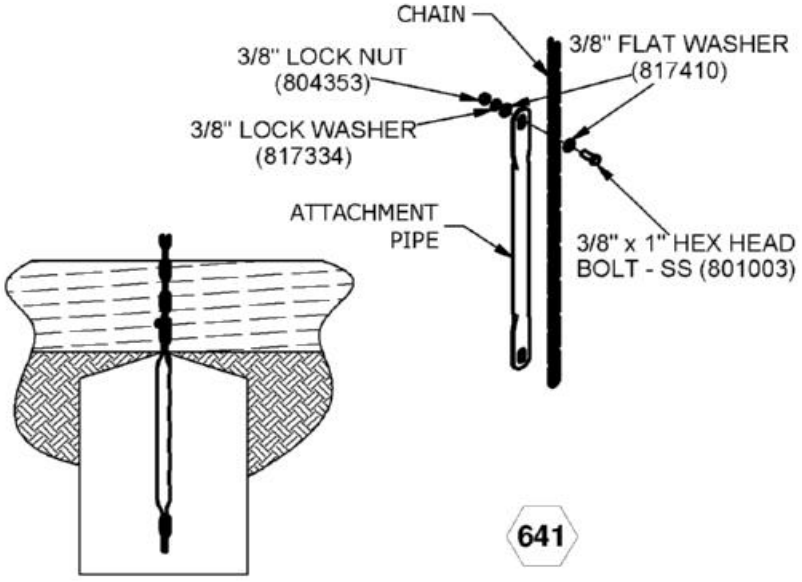
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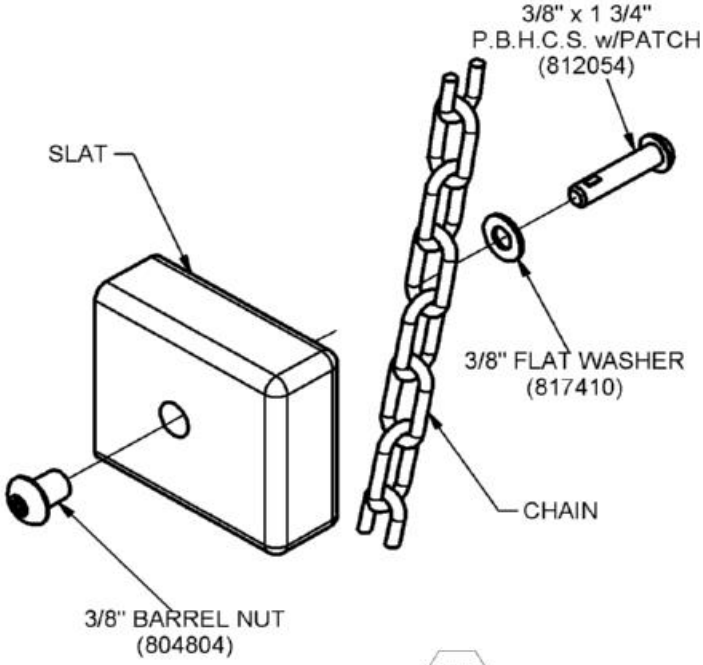
623

CHAIN TO PIPE ATTACHMENT POINT SHOULD BE ABOVE CONCRETE

NOTE: IT IS CRITICAL THAT CHAINS ARE TAUT WHEN CONCRETE IS POURED. REMOVE ANY EXCESS CHAIN.

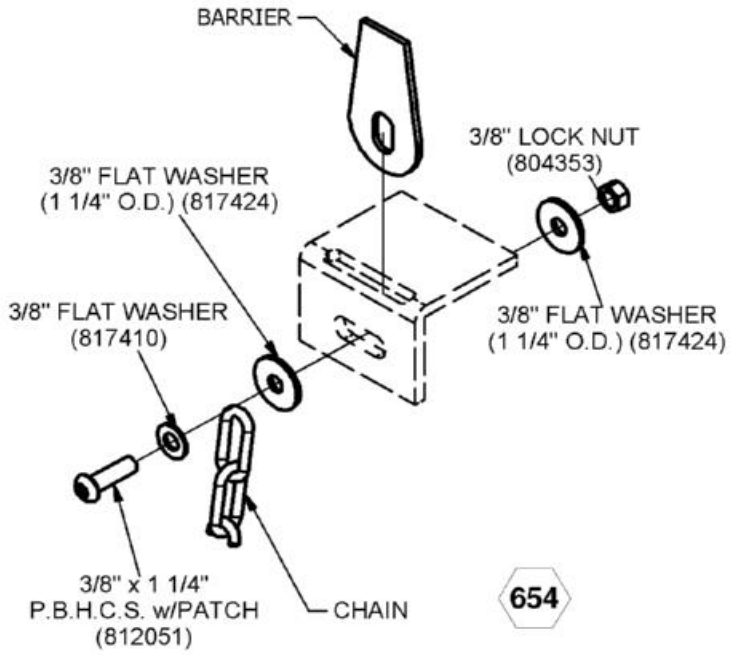


641



653

71550 (2'-8"); 71551 (3'-4"); 71552 (4'-0"); 71524 (4'-8"); 71553 (5'-4"); 71554 (6'-0"); 71555 (6'-8"); 71556 (7'-4"); 71529 (8'-0") ROPE LADDER



71561 ROCK-N-WAVE

Parts List		
DESCRIPTION	QTY	PART NUMBER
LOWER END PANEL	2	201711
ENTRY PANEL	1	201726
BACK PANEL	1	201727
UPPER END PANEL	2	201728
SEAT HAND HOLD	4	201757
SEAT	2	201755
ANGLE BRACKET	4	201759
DECK	2	201806
HANDHOLD	2	201815
BRACE	1	201819
RING HALF CLAMP	2	309913
BASE ASSEMBLY	1	311150
FILLER PLATE	1	311152
DECK EXTENSION	1	311155
DECK EXTENSION SUPPORT	2	311159
HARDWARE COMPLETE	1	312328
CLIP-ON NUT	38	804705*
1/4" x 1" DRIVE RIVET	2	805302*
5/16" x 1 1/4" B.H.C.S.	5	811044*
5/16" LOCK WASHER	5	817330*
5/16" FLAT WASHER (5/8" O.D.)	10	817406*
5/16" HEX NUT	5	804052*
3/8" x 3/4" P.B.H.C.S. w/PATCH	52	812052*
3/8" x 1" P.B.H.C.S. w/PATCH	6	812050*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	30	812051*
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	19	812053*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	38	812054*
3/8" LOCK WASHER	137	817334*
3/8" FLAT WASHER	89	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	34	817424*
3/8" HEX NUT	4	804053*
3/8" HEAVY HEX NUT	4	804200*
3/8" ACORN NUT	12	804002*
3/8" T-NUT	68	804556*
1/2" FLAT WASHER (2" O.D.)	7	817413*
1/2" ANCHOR BOLT	7	800000*
1/2" LOCKWASHER	7	817342*
1/2" HEX NUT	14	804055*

71561 ROCK-N-WAVE

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Locate deck opening to receive Rock-N-Wave. Decks must be 8' apart. See Top View and Plan View for clamp height and location.

2. Using a 7/16" drill bit, ream out any excess "Plastisol" coating from all holes used on the Deck. Be careful not to expose the steel.

3. Pour concrete slab as shown in Elevation Views. Height of slab is dependent upon required deck height. Refer to overall Top View of Unit to determine adjacent deck height. **NOTE: CONCRETE SLAB MUST BE LEVEL.**

4. Refering to anchor bolt placement views: Use supplied metal template to locate the correct placement of anchor bolts in concrete. ***Note:*** Uprights for deck must be in place to use template to correctly space anchor bolts away from the deck. A minimum of 1" thread must be protruding above template. After concrete has set enough to hold anchor bolts remove template and discard. Allow concrete slab to cure 72 hours before continuing.

5. Place Base Assembly over anchor bolts and attach using 1/2" Anchor Bolt, 1/2" Flat Washer, 1/2" Lock Washer, and 1/2' Hex Nut. See Detail 653.

6. Place Decks on top of Base Assembly. ***Note:*** Decks must be rotated so the three mounting holes for the handhold are to the outside. Attach Deck to the Base Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" T-Nut. See Detail 642. Attach Deck ends to each other using Detail 642.

7. Attach Bottom End of Seat Supports to the Deck using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" T-Nut. See Detail 648.

8. Using a hammer place all Clip-On nuts onto holes in Base Assembly. Refer to Detail 643.

9. Attach Back Panel to the back side of the Base Assembly using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and Clip-On Nut. See Detail 643.

10. Attach Back Panel to the Deck using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut. See Detail 644.

11. Attach Seats to the Back Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 646. ***Note:*** *Seats will fit into grooves cut into Back Panel.*

12. Attach Seats to Seat Handholds using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Acorn Nut. See Detail 647.

13. Attach Entry Panel to the front of the Base Assembly and Seats. ***Note:*** *Refer to step 11 for instructions and hardware.*

14. Attach Handhold to Entry Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 649.

15. Attach Handhold to Deck using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" T-Nut. See Detail 648.

16. Attach Brace to Back Panel using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 649.

17. Attach Upper End Panel to the Back and Entry Panel using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut. See Detail 645.

71561 ROCK-N-WAVE

18. Attach Upper End Panel and Entry Panel to the Seat Braces using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 649. Then attach them to Deck Ends using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" T-Nut. See Detail 654.

19. Attach Lower End Panel to the Base Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" T-Nut. See Detail 643.

20. Attach Deck Extension to the Deck Extension Supports using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), 3/8" Lock Washer, and 3/8" Hex Nut. Then attach the Deck Extension and Deck Extension Supports to the Uprights using Half Clamp, 3/8" x 1 1/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Heavy Hex Nut. See Detail 650.

21. Attach Filler Panel to Deck Extension using 5/16" x 1 1/4" P.B.H.C.S. w/Patch, 5/16" Flat Washer (5/8" O.D.), 5/16" Flat Washer, 5/16" Lock Washer, and 5/16" Hex Nut. See Detail 651. ***Note:*** *Allow 1/4" gap between Filler and Entry Panel as shown in Plan View.*

22. Plumb and level the entire assembly and tighten all fasteners.

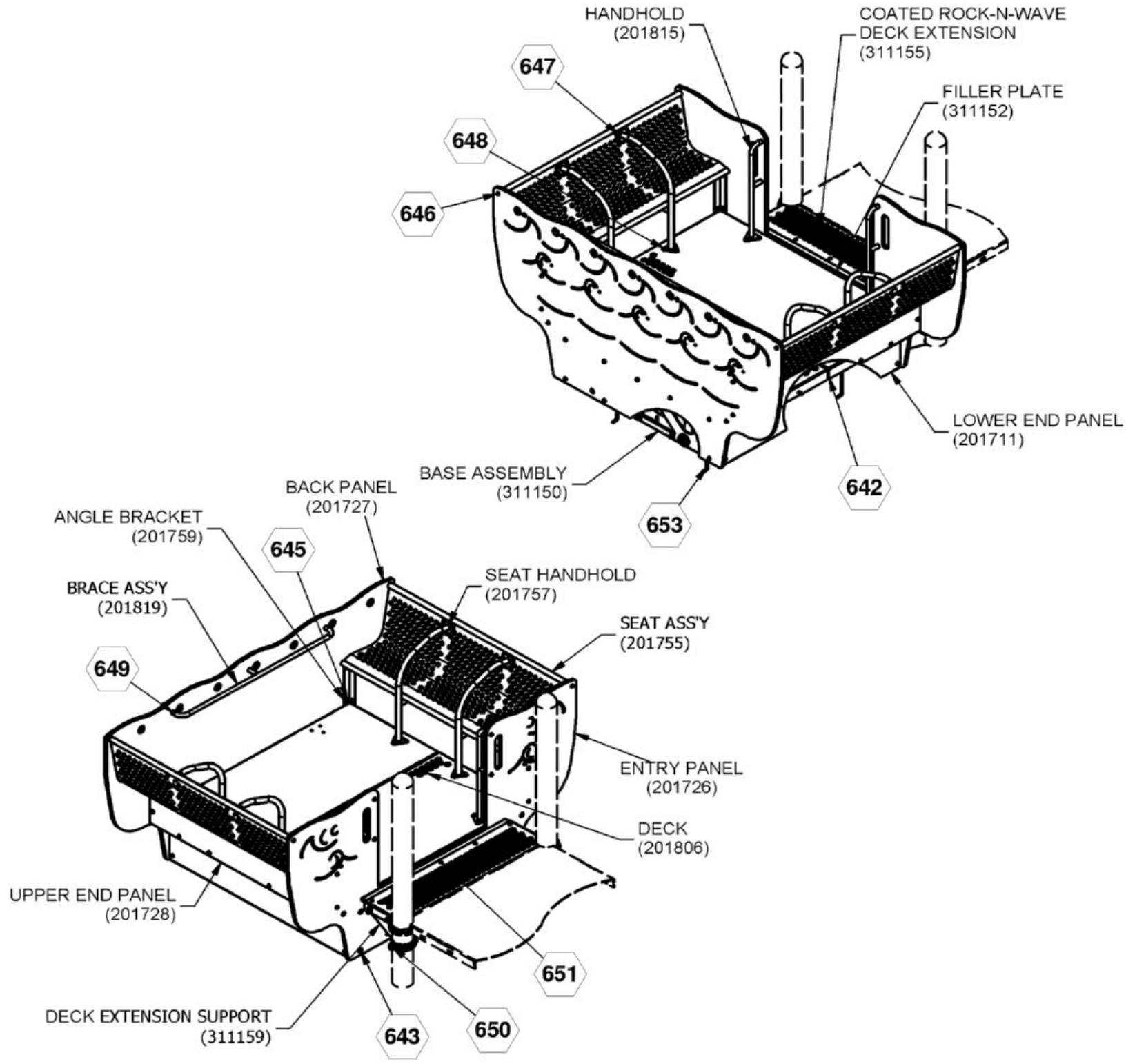
23. After entire unit is assembled pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

24. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the safety guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

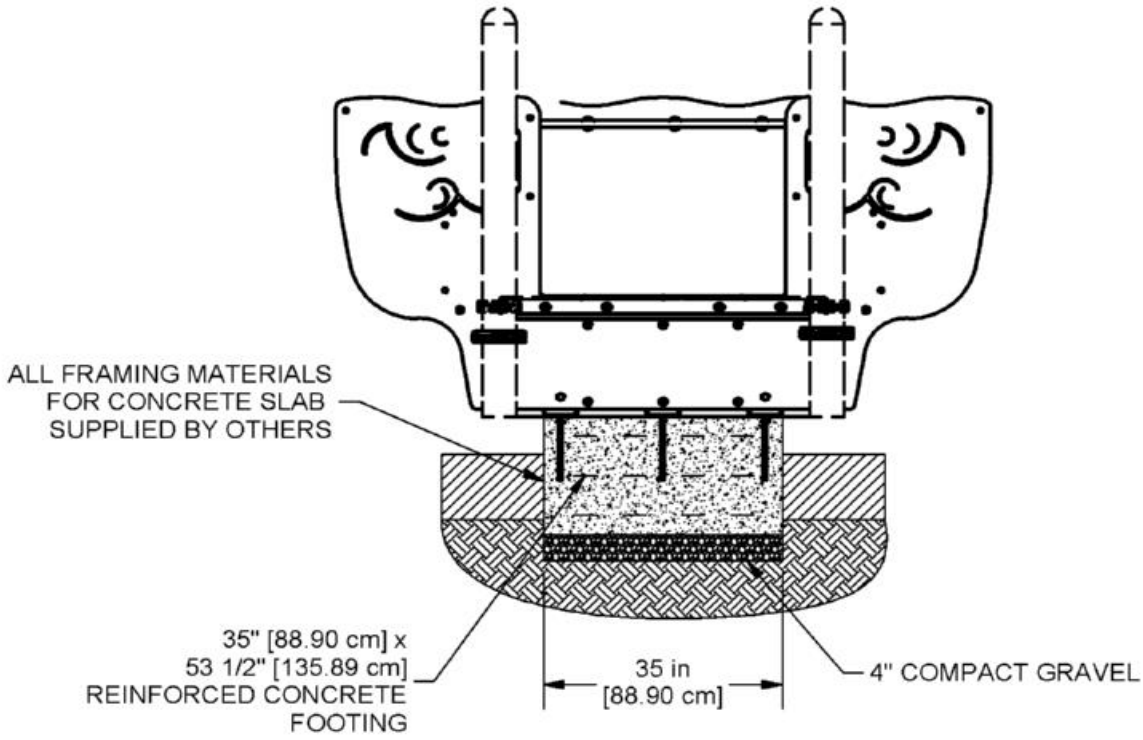
71561 ROCK-N-WAVE



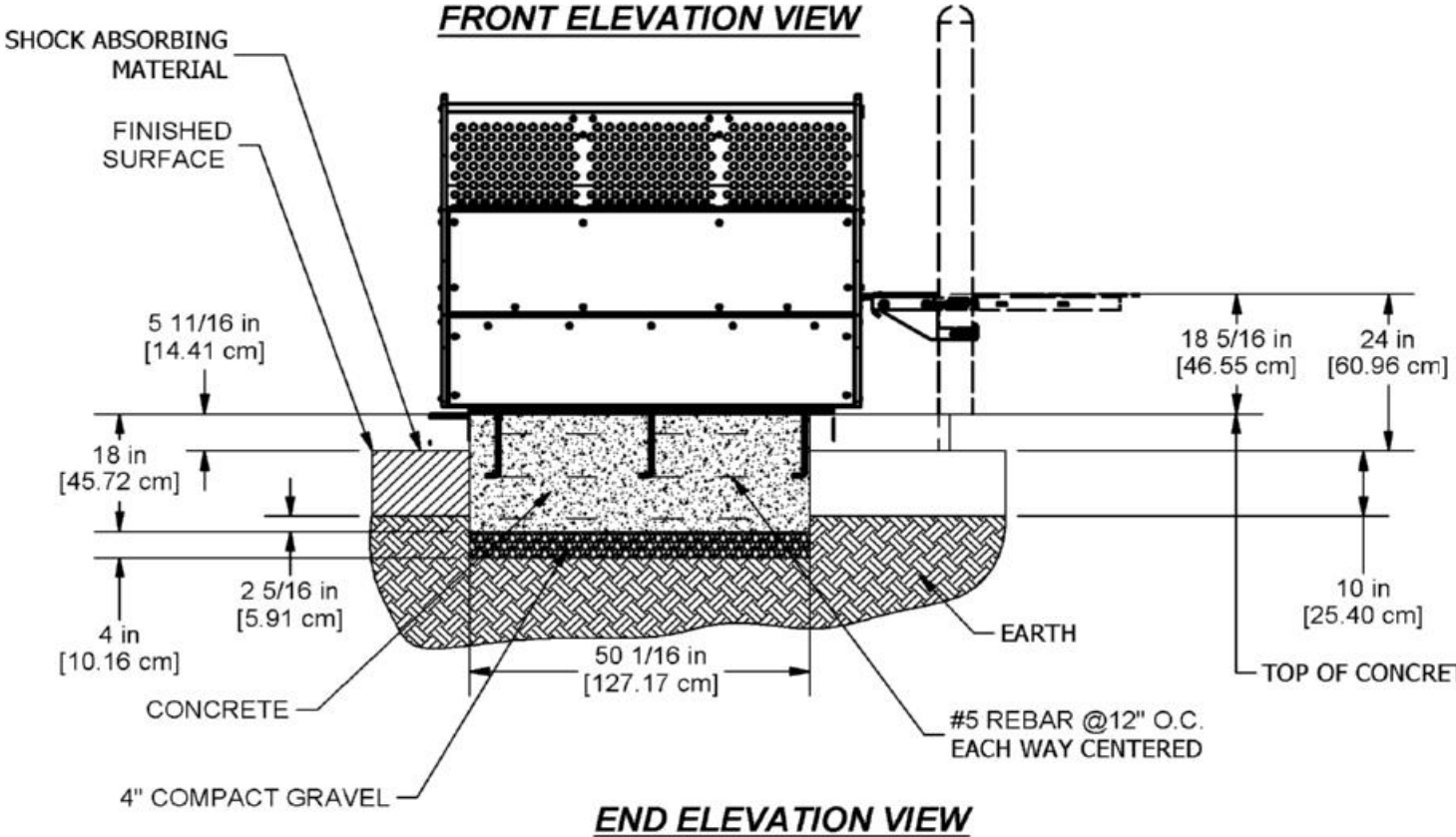
= INSTALLATION DETAIL

FINISHED ASSEMBLY

71561 ROCK-N-WAVE

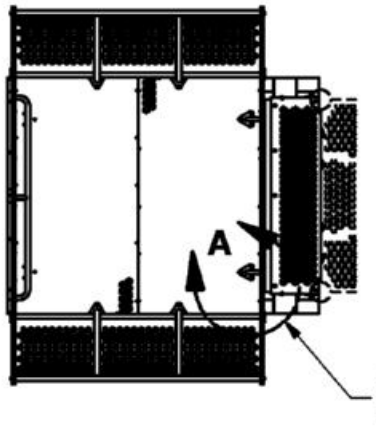


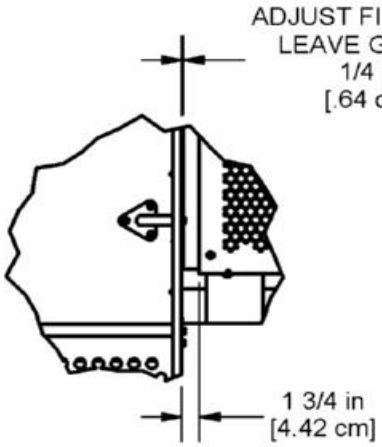
FRONT ELEVATION VIEW



END ELEVATION VIEW

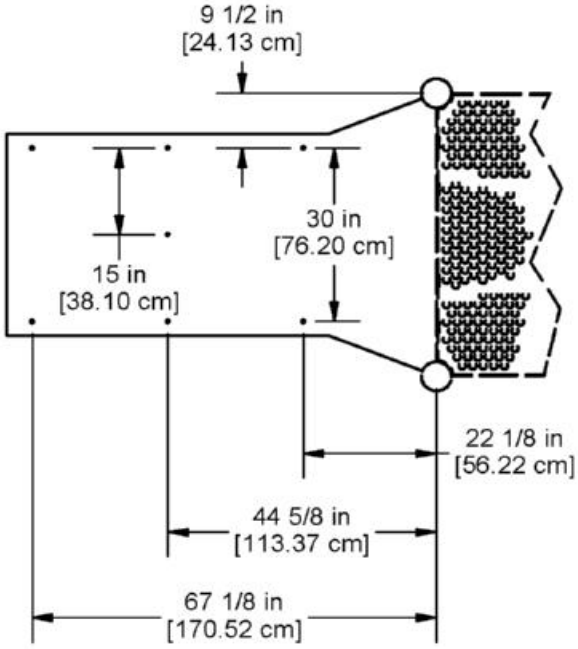
71561 ROCK-N-WAVE

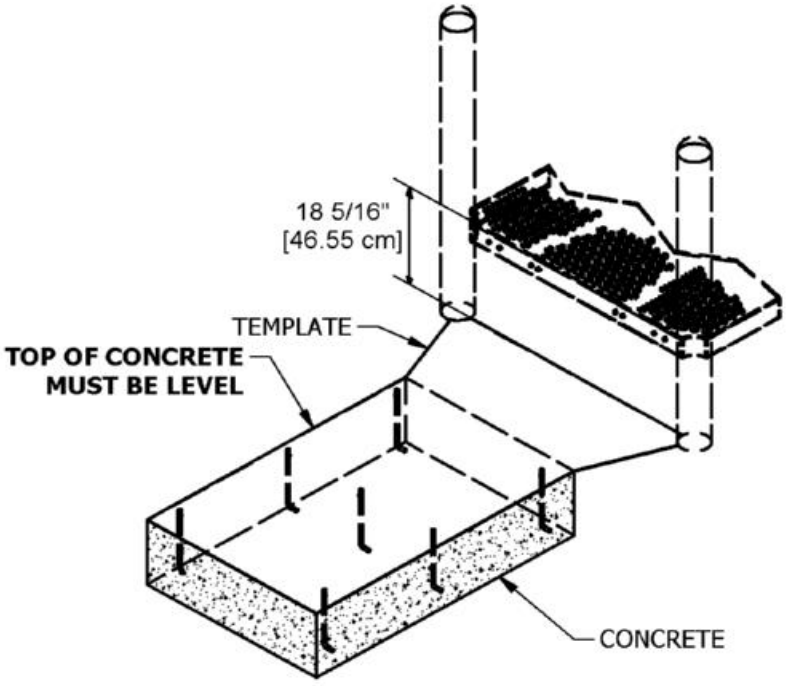


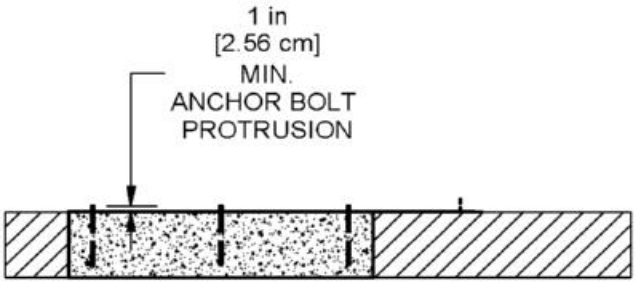


DETAIL A
SCALE 1 / 20

PLAN VIEW



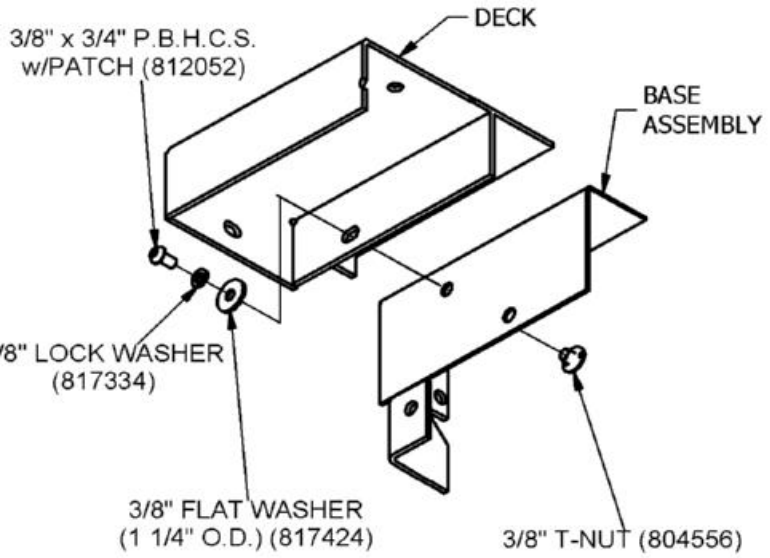




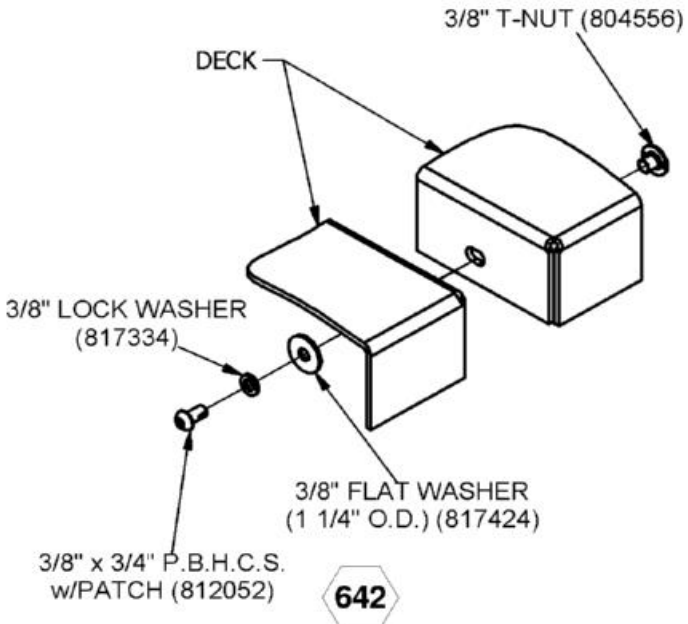
USE PROVIDED TEMPLATE TO LOCATE J-BOLT PLACEMENT IN CONCRETE. EXTRA 1/2" HEX NUTS ARE PROVIDED FOR HOLDING J-BOLTS IN TEMPLTE. REMOVE TEMPLATE BEFORE INSTALLING BASE ASSEMBLY.

ANCHOR BOLT PLACEMENT VIEWS

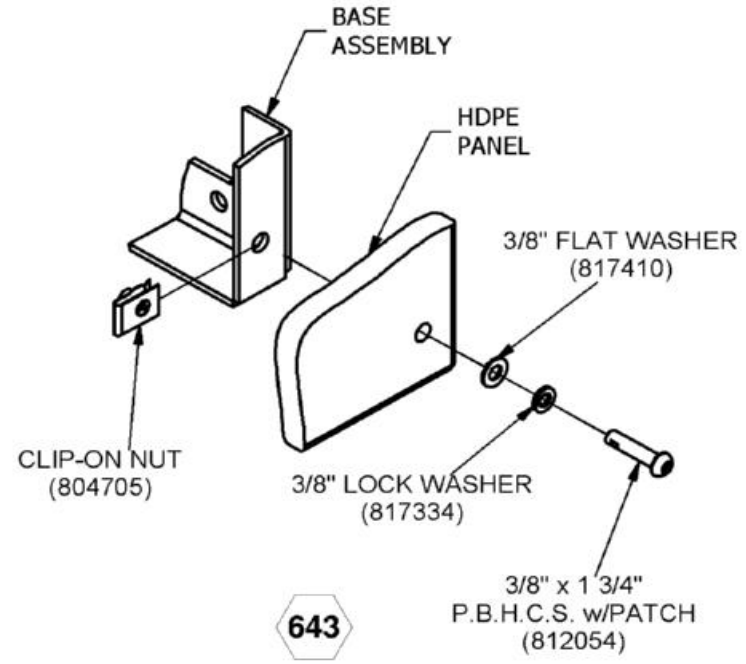
71561 ROCK-N-WAVE



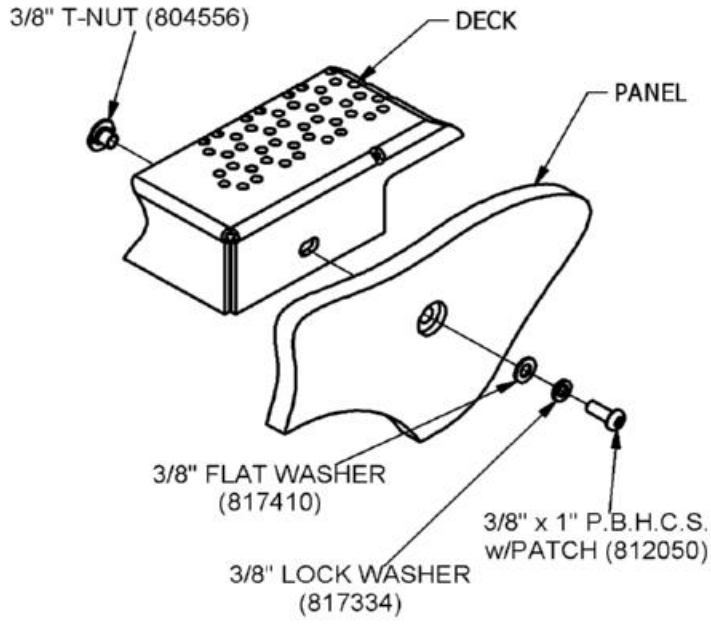
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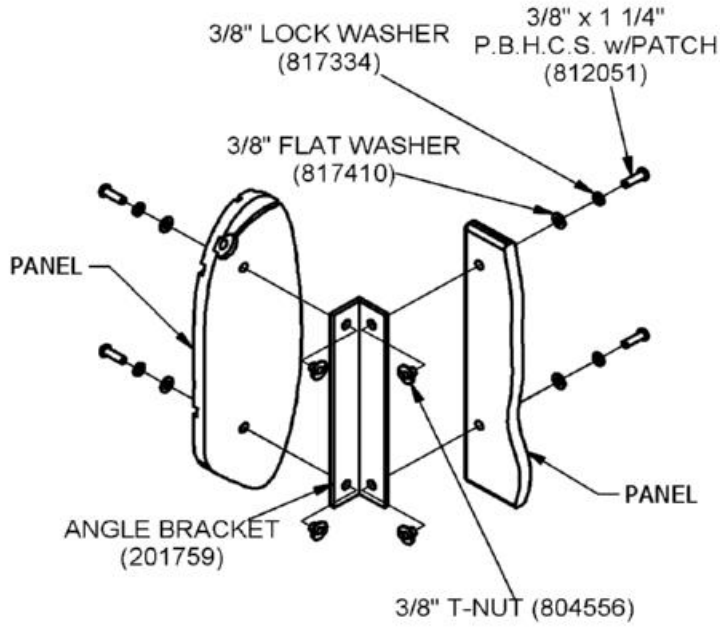


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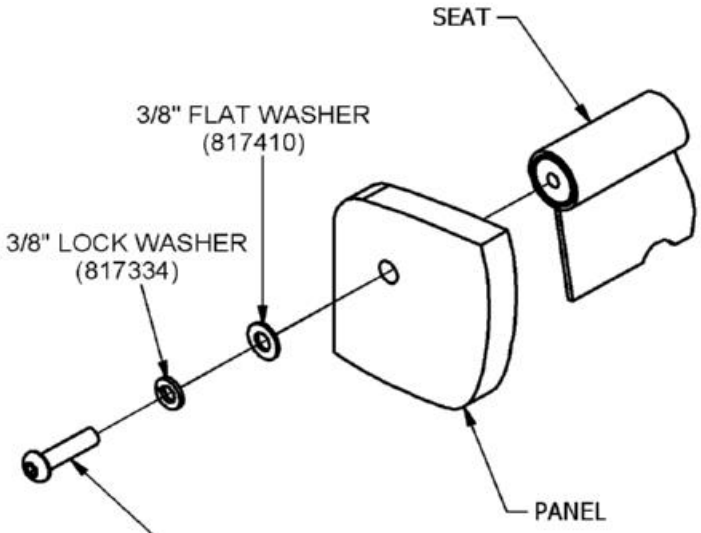


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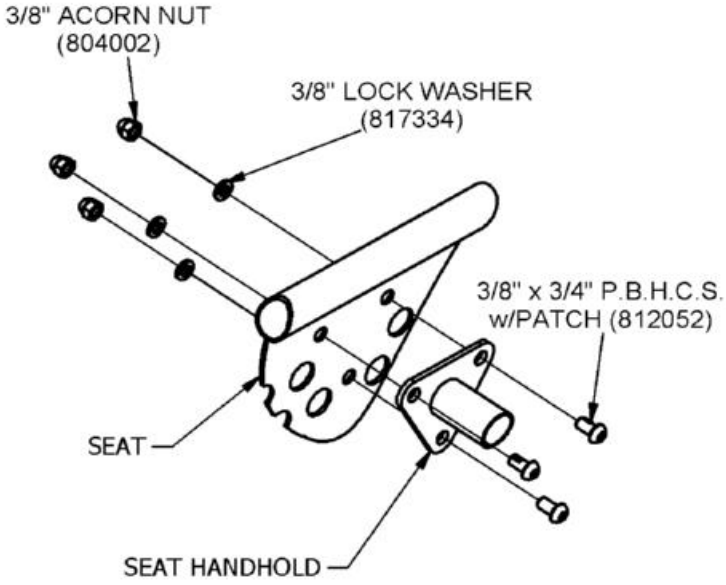
71561 ROCK-N-WAVE



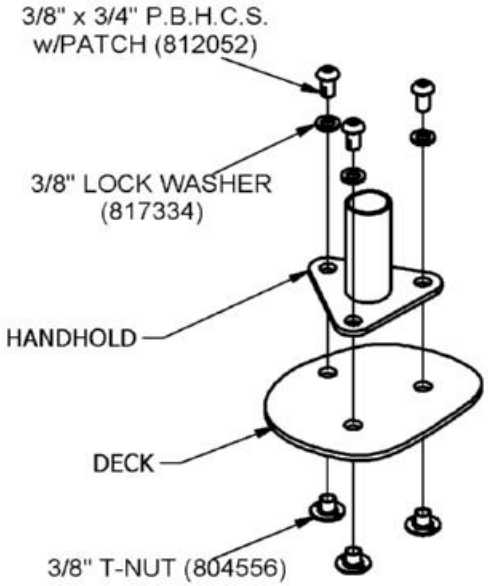
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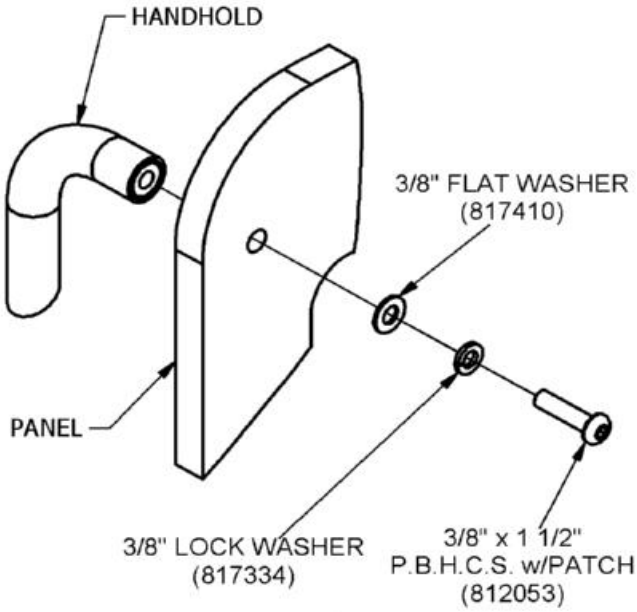


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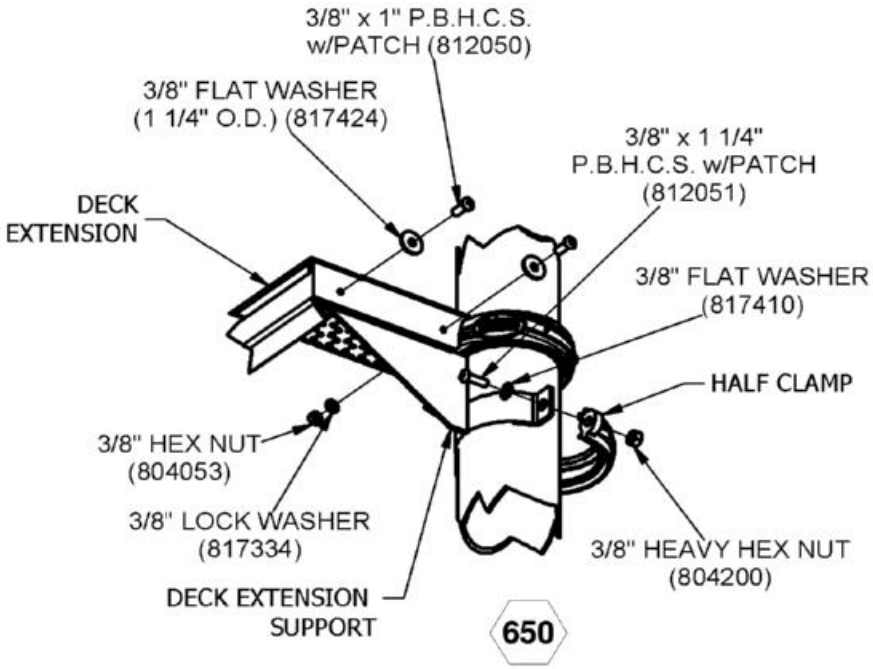


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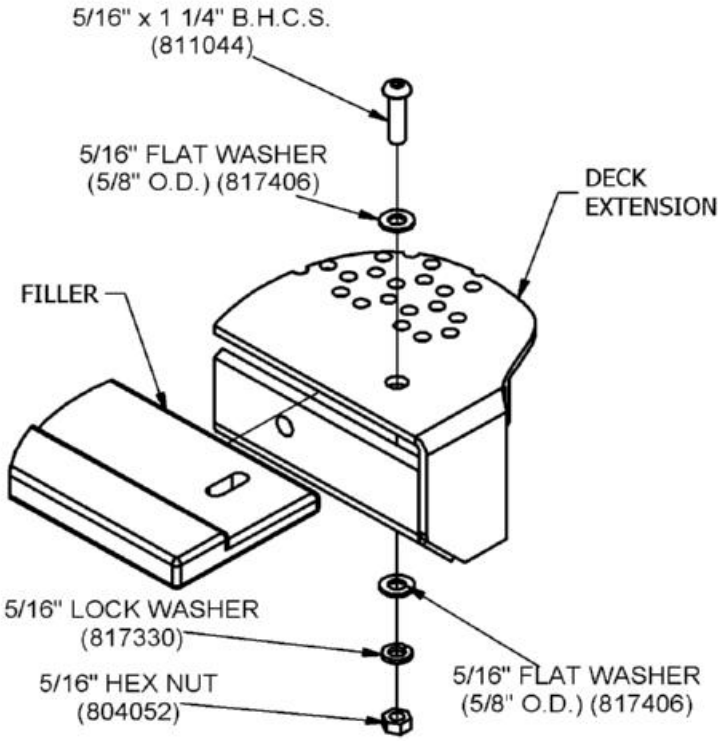
71561 ROCK-N-WAVE



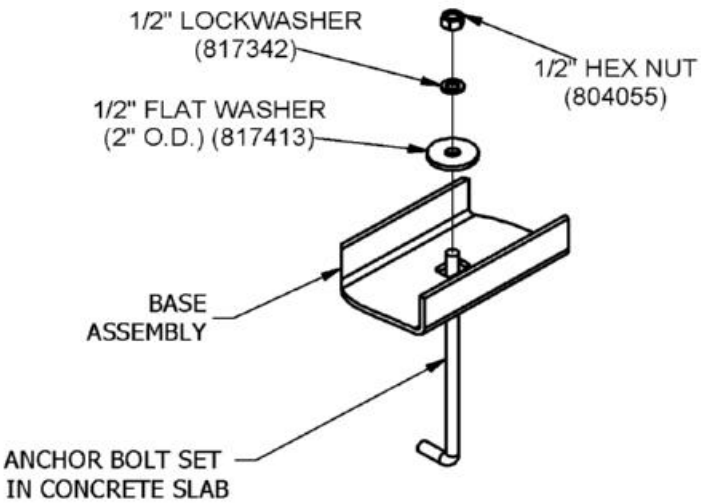
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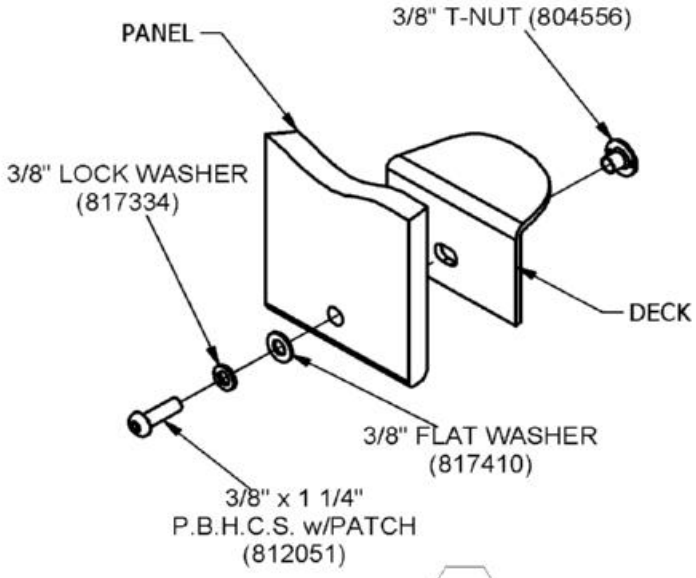


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653

71561 ROCK-N-WAVE



654

SuperMax Play Systems

71645 SPY BARRIER

Parts List		
DESCRIPTION	QTY	PART NUMBER
SPY PLANK 1	2	300496
SPY PLANK 2	2	300771
SPY PLANK 3	1	300906
TOP PLANK	1	300914
MIDDLE PLANK	1	300947
BOTTOM PLANK	1	300977
PIPE ADAPTER	2	309915
SPY BARRIER ASS'Y	1	312475
TELESCOPE ASS'Y	1	314712
TELESCOPE SWIVEL CASTING	1	314703
TELESCOPE HALF CLAMP CASTING	2	314705
----HARDWARE COMPLETE----	1	301115
3/8" x 1" P.B.H.C.S. w/PATCH	3	812050
3/8" FLAT WASHER	19	817410
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424
3/8" LOCK NUT	2	804353
3/8" T-NUT	13	804556
3/8" BARREL NUT	5	804804
3/8" x 3 1/2" P.B.H.C.S. w/PATCH	13	812075
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053
1/4" x 3/4" SET SCREW	4	811545
3/8" LOCK WASHER	4	817334
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054
1/2" FLAT WASHER	1	817412
1/4" x 1" DRIVE RIVET	2	805302

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71645 SPY BARRIER

INSTALLATION INSTRUCTIONS:

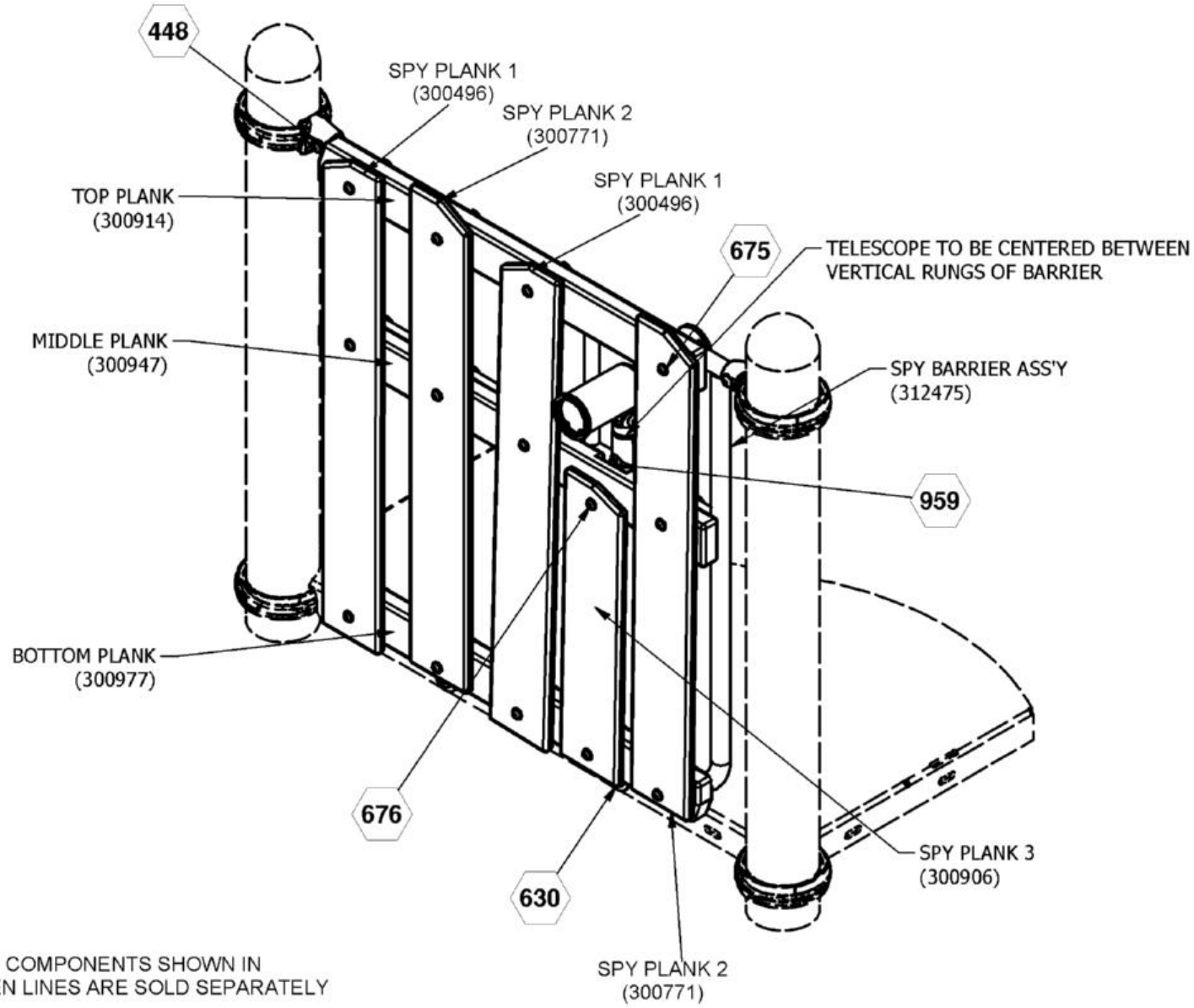
1. Locate deck opening to receive the Spy Barrier. See Plan and Elevation Views for clamp Height and location. Dig footing holes as shown in Elevation View.
2. Attach Ring Clamps at required locations as shown in Elevation View. See Ring Clamp Installation sheet.
3. Attach Pipe Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 448.
4. Attach the Slat Barrier to Pipe Adapters using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.
5. Attach the bottom of the Slat Barrier to deck using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Lock Nut. See Detail 630.
6. Attach Telescope Ass'y to middle bar of Spy Barrier Ass'y. See Detail 959.
7. Attach Spy Plank 1 and Spy Plank 2 to Spy Barrier Assy' with Top Plank in between using 3/8" x 3 1/2" P.B.H.C.S., 3/8" Flat Washer, and 3/8" T-Nut. Refer to Elevation view for proper Slat alignment. See Detail 675.
8. Attach Spy Plank 1, and Spy Plank 2 to Spy Barrier Assy' with Middle Plank in between using 3/8" x 3 1/2" P.B.H.C.S., 3/8" Flat Washer, and 3/8" T-Nut as show . Refer to Elevation view for proper Slat Alignment. See Detail 675.
8. Attach Spy Plank 3 to Spy Barrier Assy' with Middle Plank in between using 3/8" x 1 1/2" P.B.H.C.S., 3/8" Flat Washer, and 3/8" barrel Nut as shown. Refer to Elevation view for proper Slat Alignment. See Detail 676.
9. Attach Spy Plank 1, Spy Plank 2, and Spy Plank 3 to Spy Barrier Assy' with Bottom Plank in between using 3/8" x 3 1/2" P.B.H.C.S., 3/8" Flat Washer, and 3/8" T-Nut as show . Refer to Elevation view for proper Slat Alignment. See Detail 675.
10. Plumb and level the entire assembly and tighten all fasteners.
11. After entire unit is assembled pour concrete footings within 4" to the top and taper away from Post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.
12. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71645 SPY BARRIER

IMPORTANT: ORIENTATION OF PLANKS ARE CRITICAL.

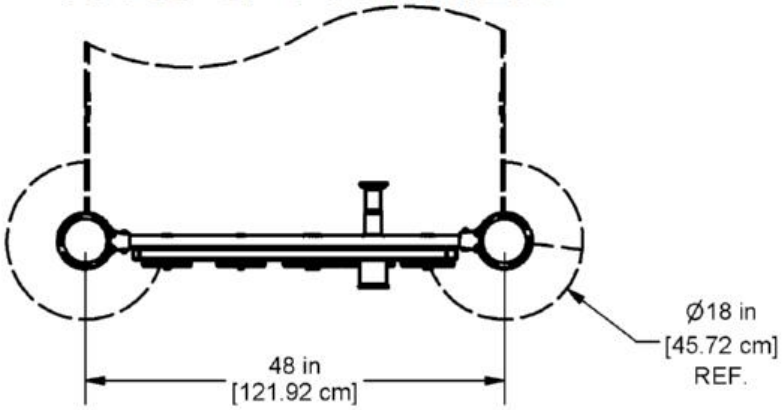


COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

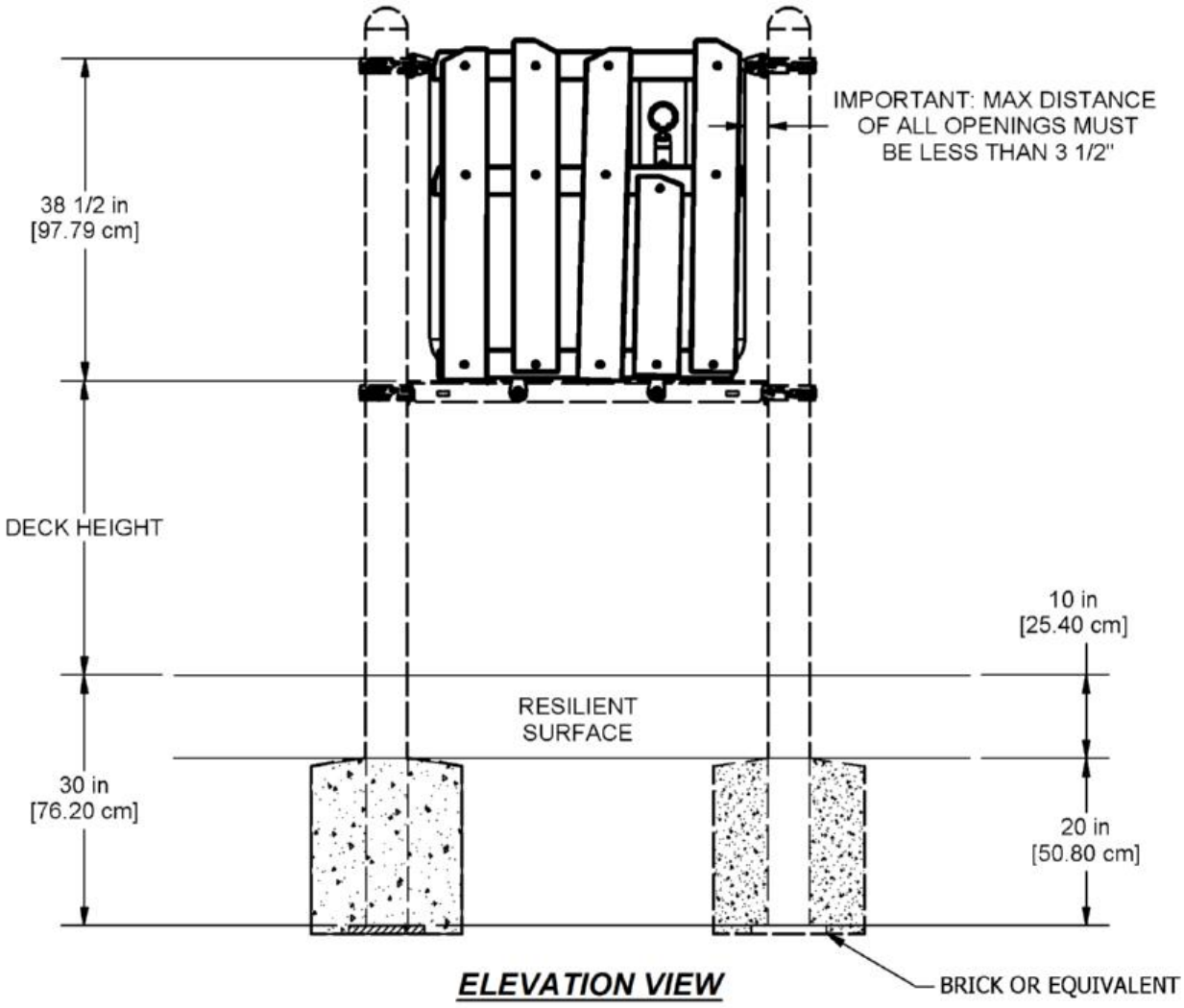
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
71645 SHOWN

71645 SPY BARRIER



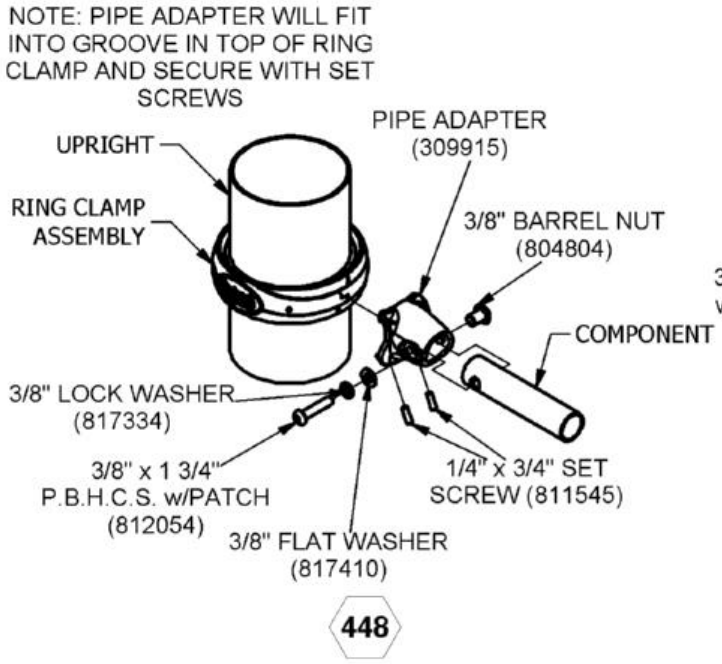
PLAN VIEW

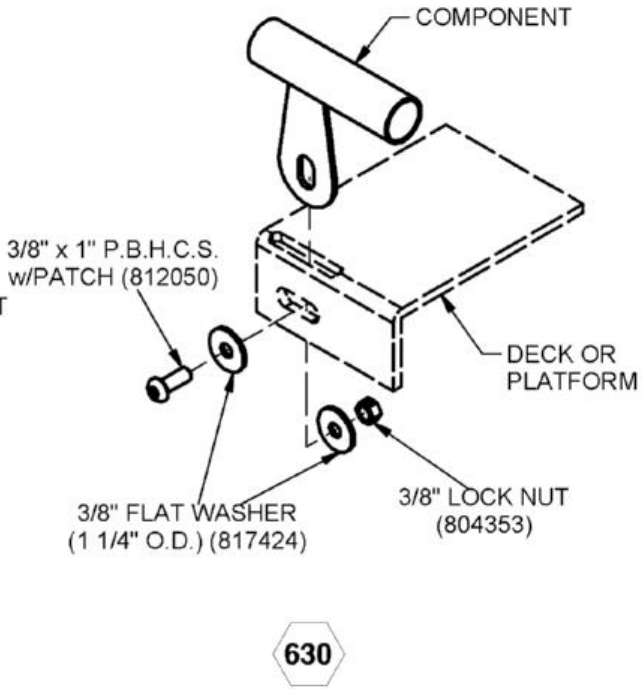


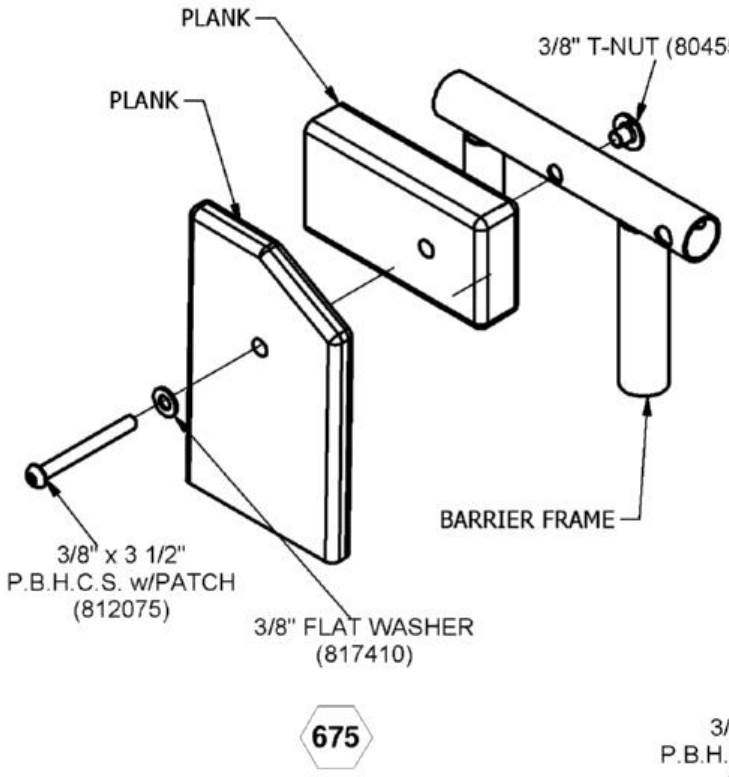
ELEVATION VIEW

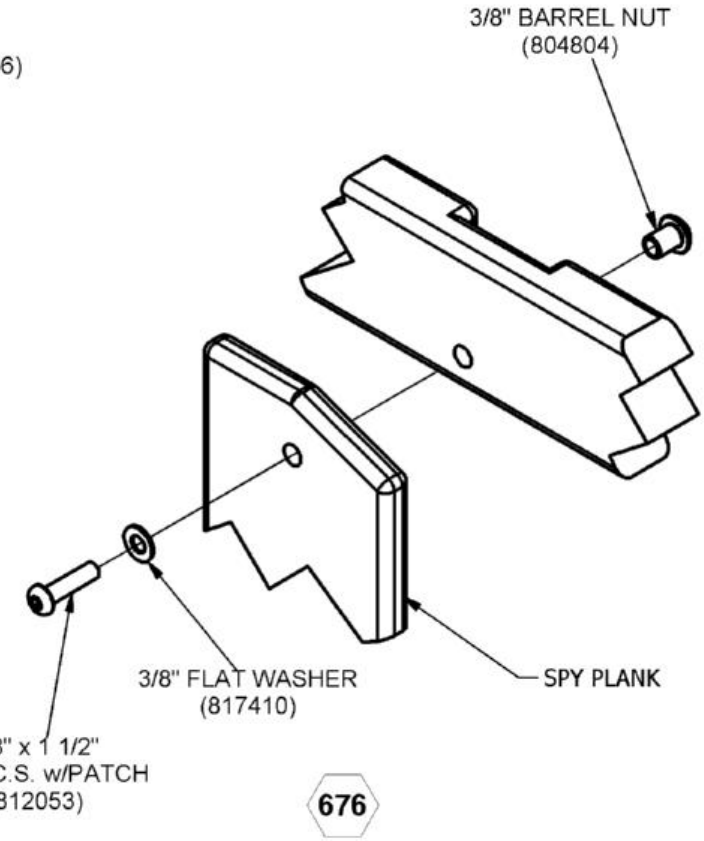
71645 SHOWN

71645 SPY BARRIER

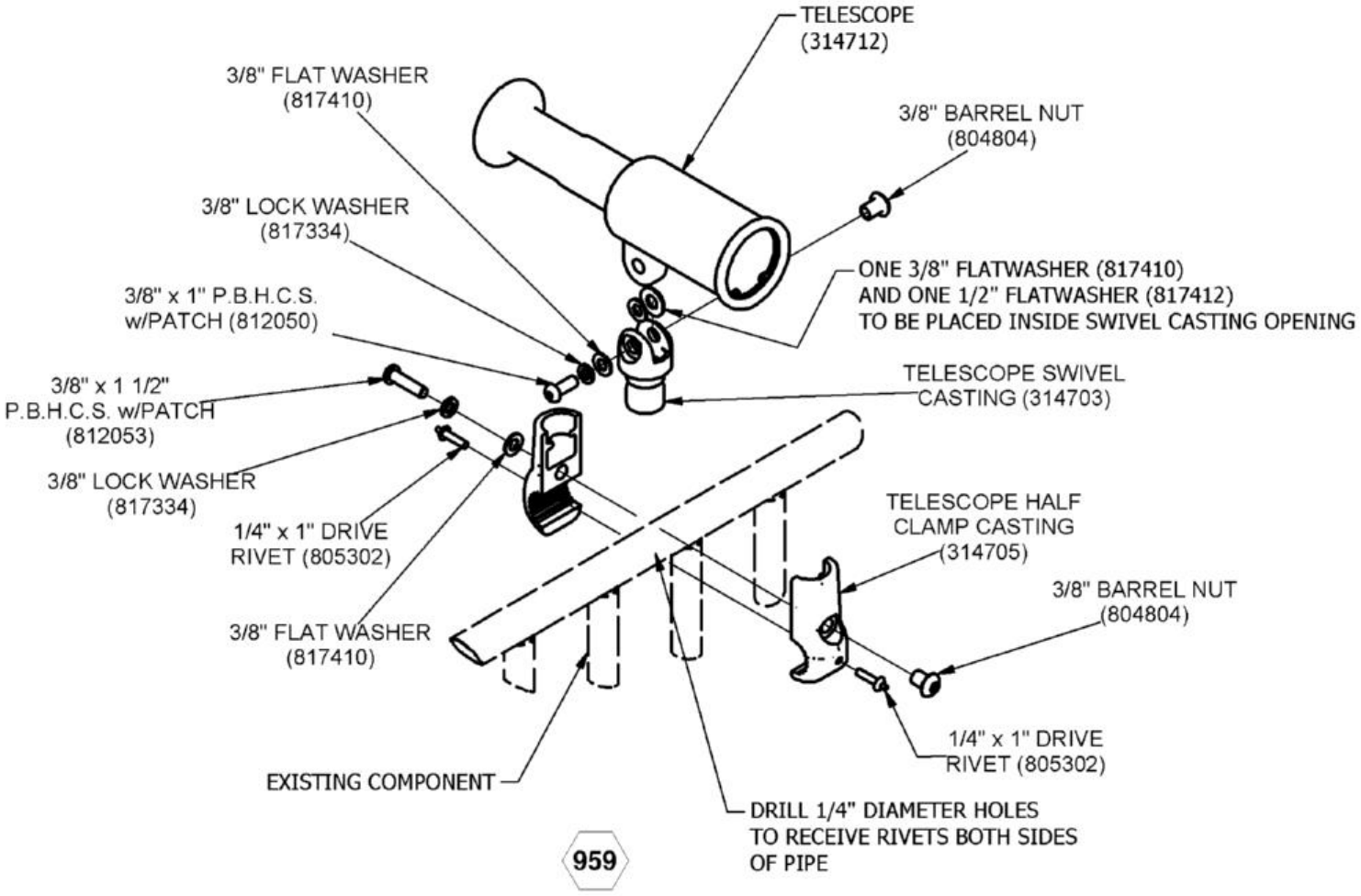








71645 SPY BARRIER



SuperMax Play Systems

71659 SINGLE VELOCITY WAVE SLIDE (2'-8")

Parts List		
DESCRIPTION	QTY	PART NUMBER
SLIDE HOOD	1	312484
2'-8" SINGLE VELOCITY WAVE SLIDE	1	176399
FOOTBUCK	1	176384
PANEL ADAPTER	2	309919
HARDWARE COMPLETE	1	312600*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051*
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" FLAT WASHER	6	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424*
3/8" LOCK WASHER	4	817334*
1/4" x 3/4" SET SCREW	4	811545*
3/8" BARREL NUT	2	804804*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Single Velocity Wave Slide and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.

2. Attach Ring Clamps to the Uprights. See Ring Clamp Installation sheet.

3. Attach Panel Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 672.

4. Attach Foot Buck to Slide using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock washer and 3/8" Flat Washer. See Detail 024.

5. Attach Slide to Deck using 3/8" x 1 1/4" P.B.H.C.S. w/Patch, and 3/8" Flat Washer (1 1/4" O.D.). See detail 136.

6. Attach Slide Hood to Panel Adapters using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer and 3/8" Barrel Nut. See detail 672.

7. Attack Slide to Slide Hood using 3/8" x 1 3/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See detail 673.

8. Plumb and level the entire assembly and tighten all fasteners.

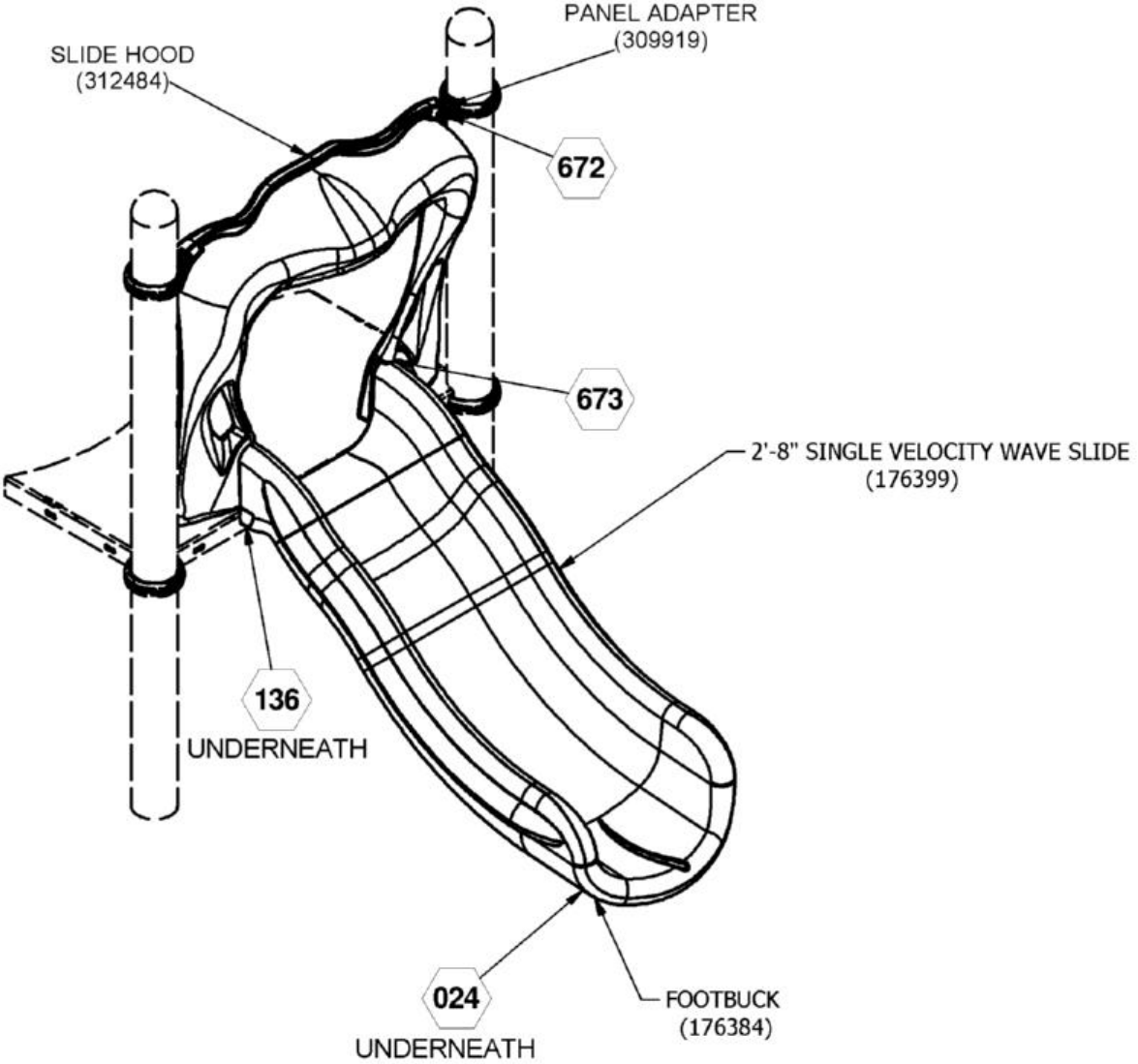
9. After entire unit is assembled pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

71659 SINGLE VELOCITY WAVE SLIDE (2'-8")

10. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



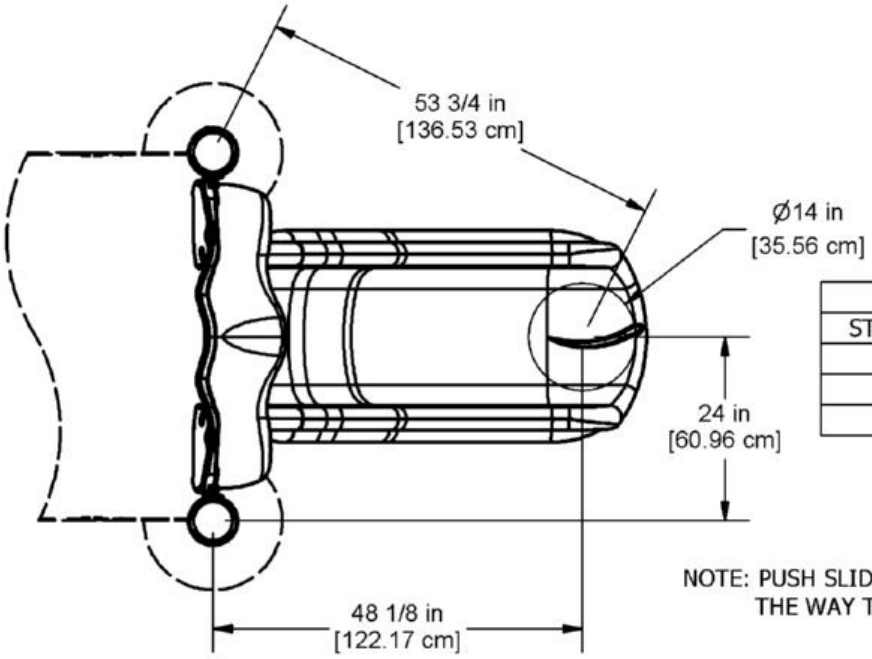
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

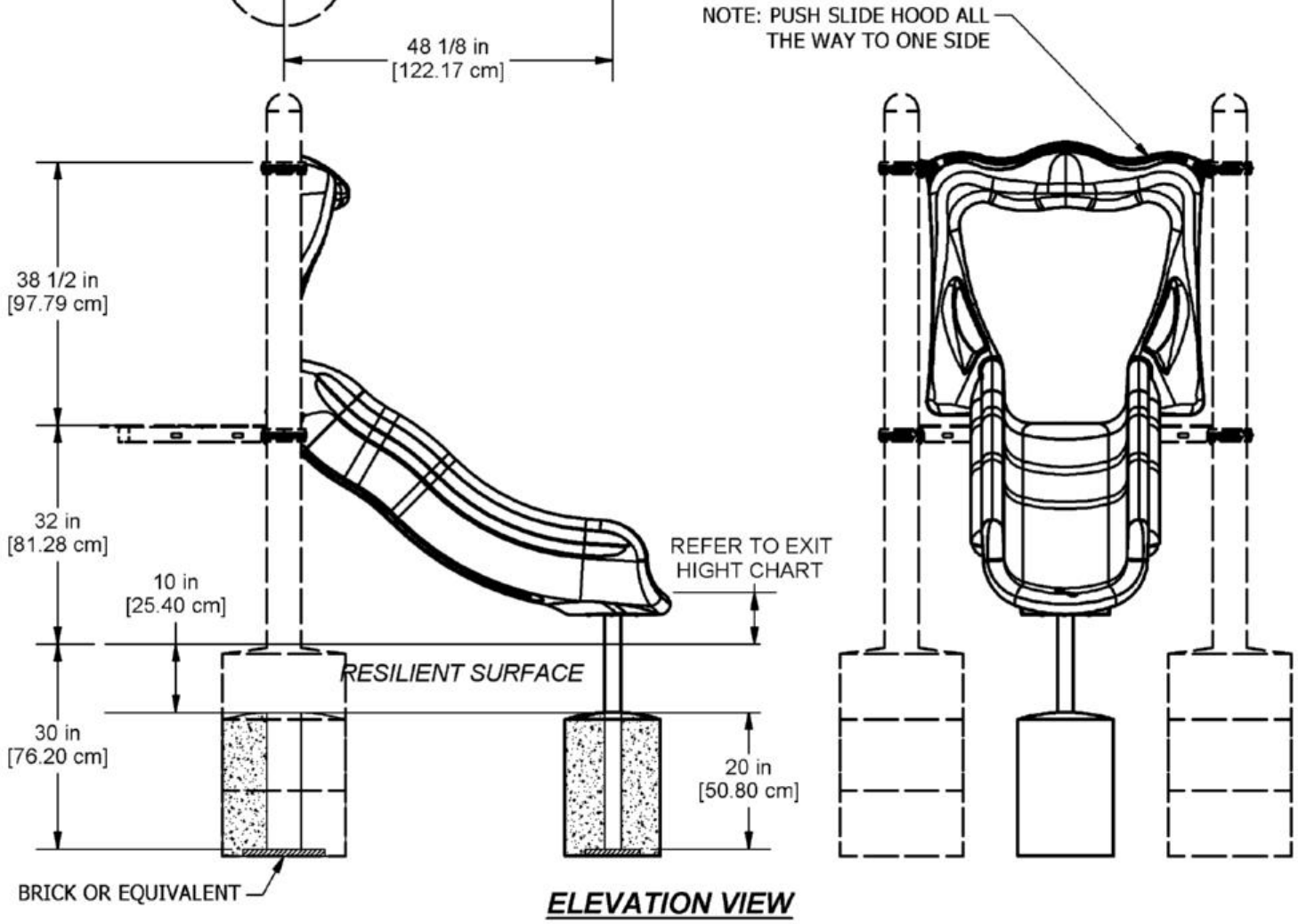
SuperMax Play Systems

71659 SINGLE VELOCITY WAVE SLIDE (2'-8")



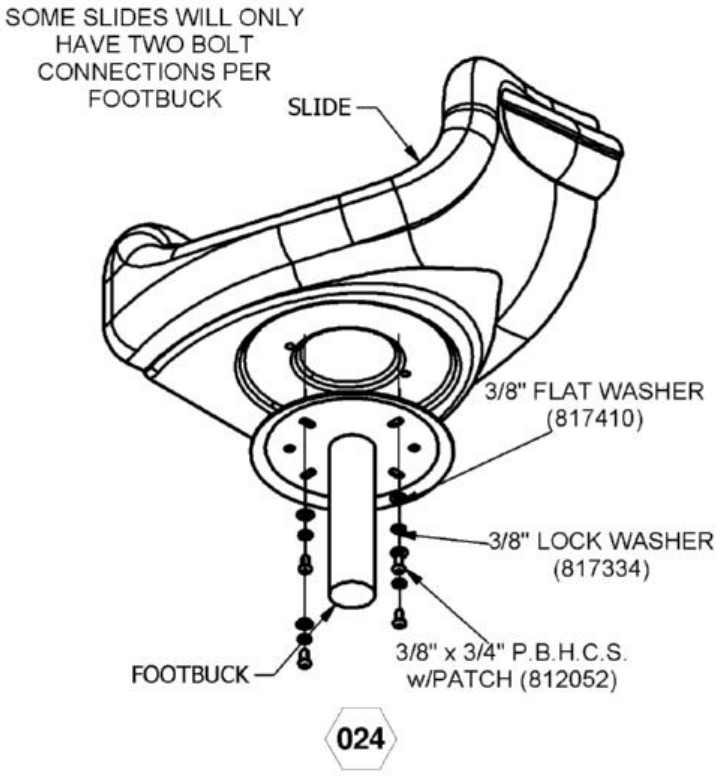
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

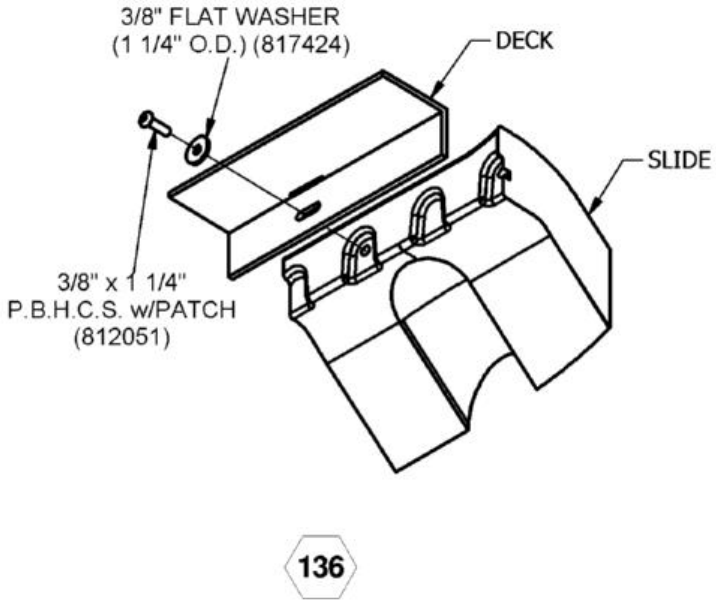
CONCRETE REQUIRED
.07 CUBIC YARDS
.05 [CUBIC METERS]

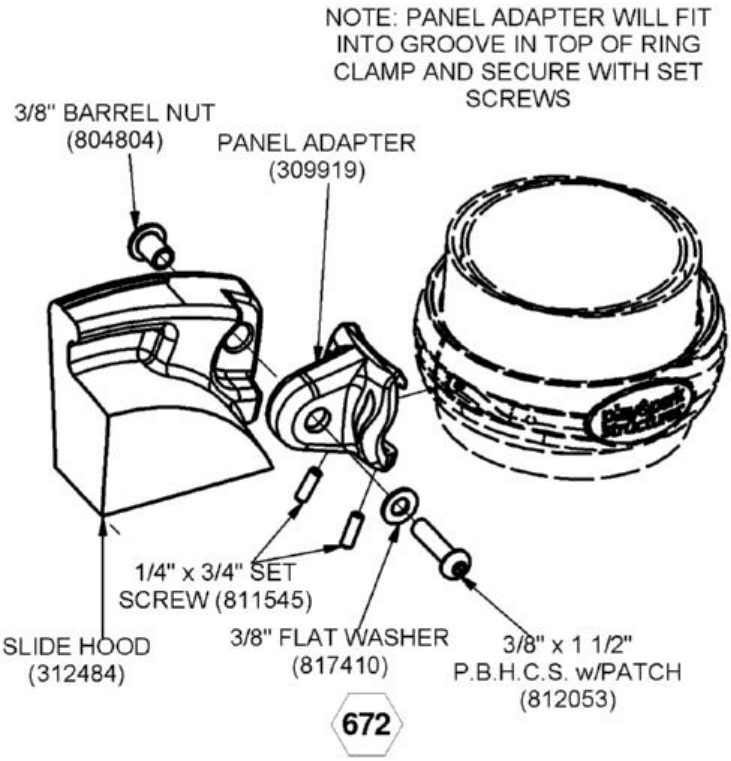


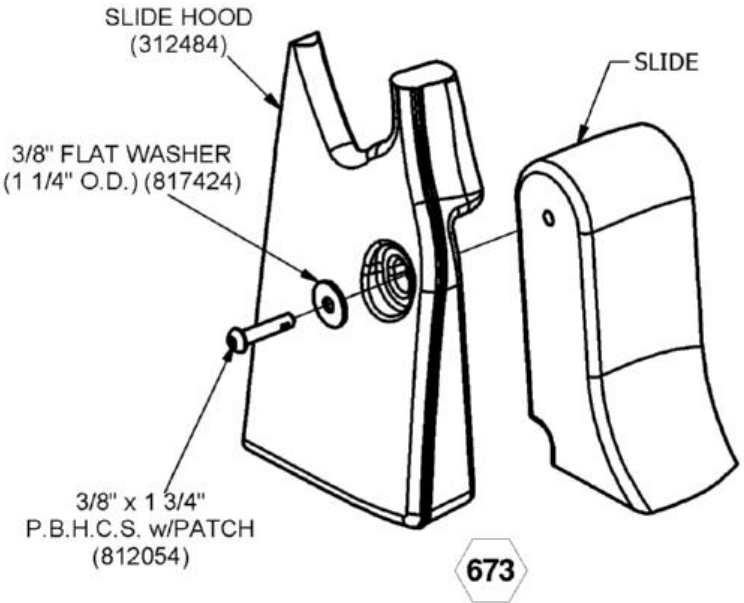
ELEVATION VIEW

71659 SINGLE VELOCITY WAVE SLIDE (2'-8")









SuperMax Play Systems

71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER

Parts List										
DESCRIPTION	71662	71663	71664	71665	71666	71667	71668	71669	71670	PART NUMBER
PIPE ADAPTER	2	2	2	2	2	2	2	2	2	309915
ENTRY ARCHWAY	1	1	1	1	1	1	1	1	1	312007
MOUNT ASS'Y	1	1	1	1	1	1	1	1	1	311212
BARRIER SLAT	2	2	2	2	2	2	2	2	2	312227
LEFT LADDER ASS'Y	1	0	0	0	0	0	0	0	0	312560
LEFT LADDER ASS'Y	0	1	0	0	0	0	0	0	0	312554
LEFT LADDER ASS'Y	0	0	1	0	0	0	0	0	0	312548
LEFT LADDER ASS'Y	0	0	0	1	0	0	0	0	0	312542
LEFT LADDER ASS'Y	0	0	0	0	1	0	0	0	0	312536
LEFT LADDER ASS'Y	0	0	0	0	0	1	0	0	0	312532
LEFT LADDER ASS'Y	0	0	0	0	0	0	1	0	0	312574
LEFT LADDER ASS'Y	0	0	0	0	0	0	0	1	0	312580
LEFT LADDER ASS'Y	0	0	0	0	0	0	0	0	1	311216
RIGHT LADDER ASS'Y	1	0	0	0	0	0	0	0	0	312562
RIGHT LADDER ASS'Y	0	1	0	0	0	0	0	0	0	312556
RIGHT LADDER ASS'Y	0	0	1	0	0	0	0	0	0	312550
RIGHT LADDER ASS'Y	0	0	0	1	0	0	0	0	0	312544
RIGHT LADDER ASS'Y	0	0	0	0	1	0	0	0	0	312538
RIGHT LADDER ASS'Y	0	0	0	0	0	1	0	0	0	312534
RIGHT LADDER ASS'Y	0	0	0	0	0	0	1	0	0	312576
RIGHT LADDER ASS'Y	0	0	0	0	0	0	0	1	0	312582
RIGHT LADDER ASS'Y	0	0	0	0	0	0	0	0	1	311218
PLANK STEP	2	3	4	4	5	6	7	7	8	311219
HARDWARE COMPLETE	1	0	0	0	0	0	0	0	0	312587
HARDWARE COMPLETE	0	1	0	0	0	0	0	0	0	312588
HARDWARE COMPLETE	0	0	1	0	0	0	0	0	0	312589
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HARDWARE COMPLETE	0	0	0	0	0	0	1	0	0	312593
HARDWARE COMPLETE	0	0	0	0	0	0	0	1	0	312594
HARDWARE COMPLETE	0	0	0	0	0	0	0	0	1	312595
3/8" FLAT WASHER	12	15	18	18	21	24	27	27	30	817410*
3/8" BARREL NUT	8	8	8	8	8	8	8	8	8	804804*
3/8" LOCKWASHER	6	6	6	6	6	6	6	6	6	817334*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	6	6	6	6	6	6	6	6	6	812054*
1/4" x 3/4" SET SCREW	4	4	4	4	4	4	4	4	4	811545*
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	4	4	4	4	4	4	4	4	4	812057*
3/8" LOCK NUT	6	9	12	12	15	18	21	21	24	804353*
3/8" x 1" P.B.H.C.S. w/PATCH	6	9	12	12	15	18	21	21	24	812050*
3/8" T-NUT	2	2	2	2	2	2	2	2	2	804556*

71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Locate the Uprights intended to receive the Reverse Ladder. Dig footings as shown in the assembly drawing. Refer to your overhead drawing for location.

2. Attach Entry Archway to Deck Clamps using 3/8" x 1 3/4" P.B.H.C.S., 3/8" Lock Washer, 3/8" Flatwasher, and 3/8" Barrel Nut as shown in Detail 448. Make sure tabs on bottom of Entry Archway slide through slots in Deck. Attach Deck clamps to upright posts at appropriate height shown in Elevation view.

3. Attach Slats to Entry Archway using 3/8" Barrel Nut, 3/8" Flat Washer and 3/8" x 2 1/2" P.B.H.C.S. w/PATCH as shown in Detail 623.

4. Attach Mount Ass'y to Deck using 3/8" x 1 3/4" P.B.H.C.S., 3/8" Lockwashers, and 3/8" T-nut as show in Detail 295.

5. Attach Left Ladder Ass'y to Mount Ass'y using 3/8" x 1 1/2" P.B.H.C.S., 3/8" Lockwasher, and 3/8" Barrel Nut as show in Detail 679. **IMPORTANT**: Ensure that larger holes are facing outward on Mount Ass'y.

6. Attach Right Ladder Ass'y to Mount Ass'y using 3/8" x 1 1/2" P.B.H.C.S., 3/8" Lockwasher, and 3/8" Barrel Nut as show in Detail 679.

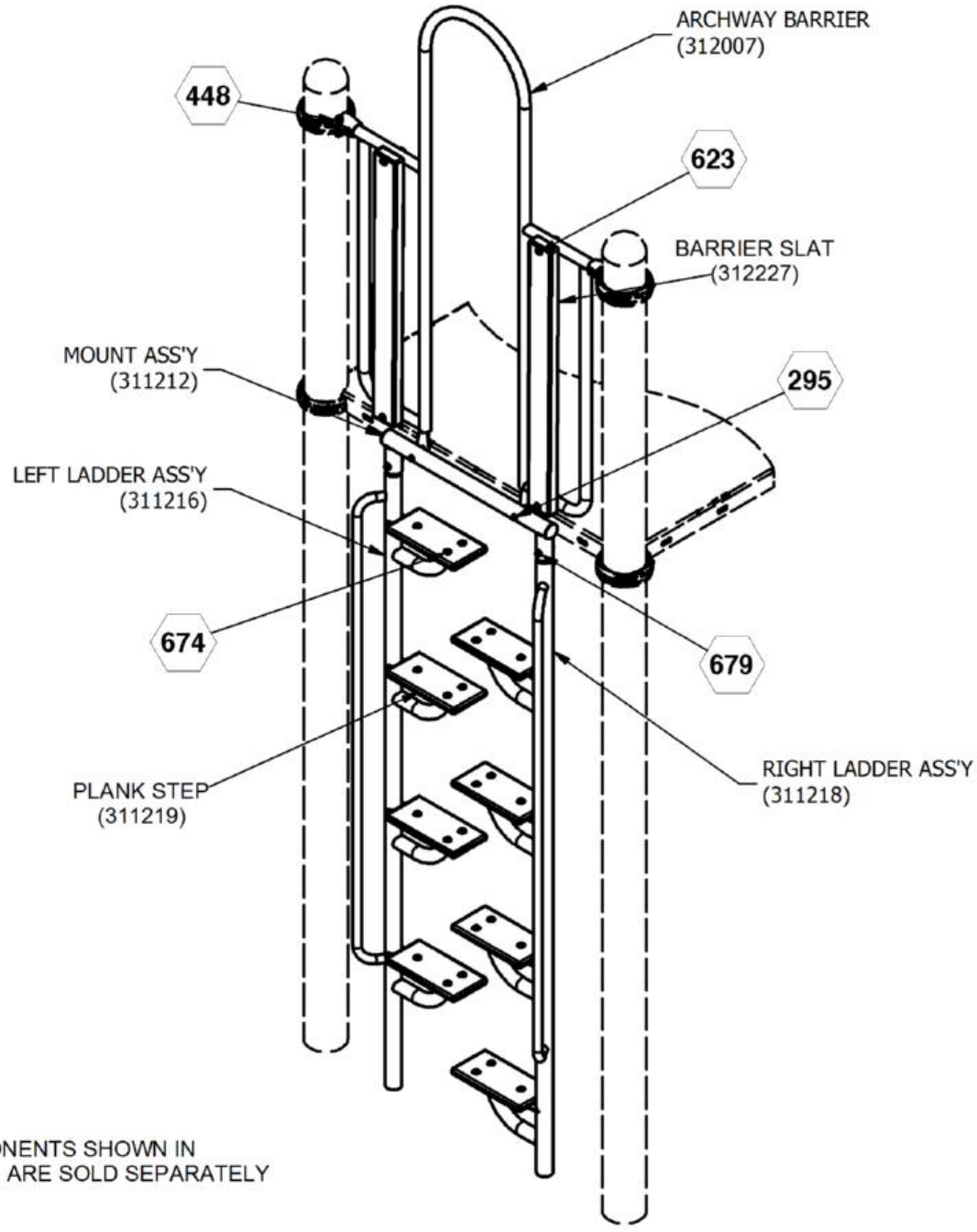
7. Attach Plank Steps to Left and Right Ladder Ass'y using 3/8" x 1" P.B.H.C.S., 3/8" Flatwasher, and 3/8" Lock Nut as shown in Detail 674.

8. Plumb and level the entire Vertical Ladder Assembly and tighten all fasteners. Pour concrete footing to within 4" to the top and taper away from posts to allow water drainage. Allow to cure at least 48 hours before use.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER



COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

FINISHED ASSEMBLY

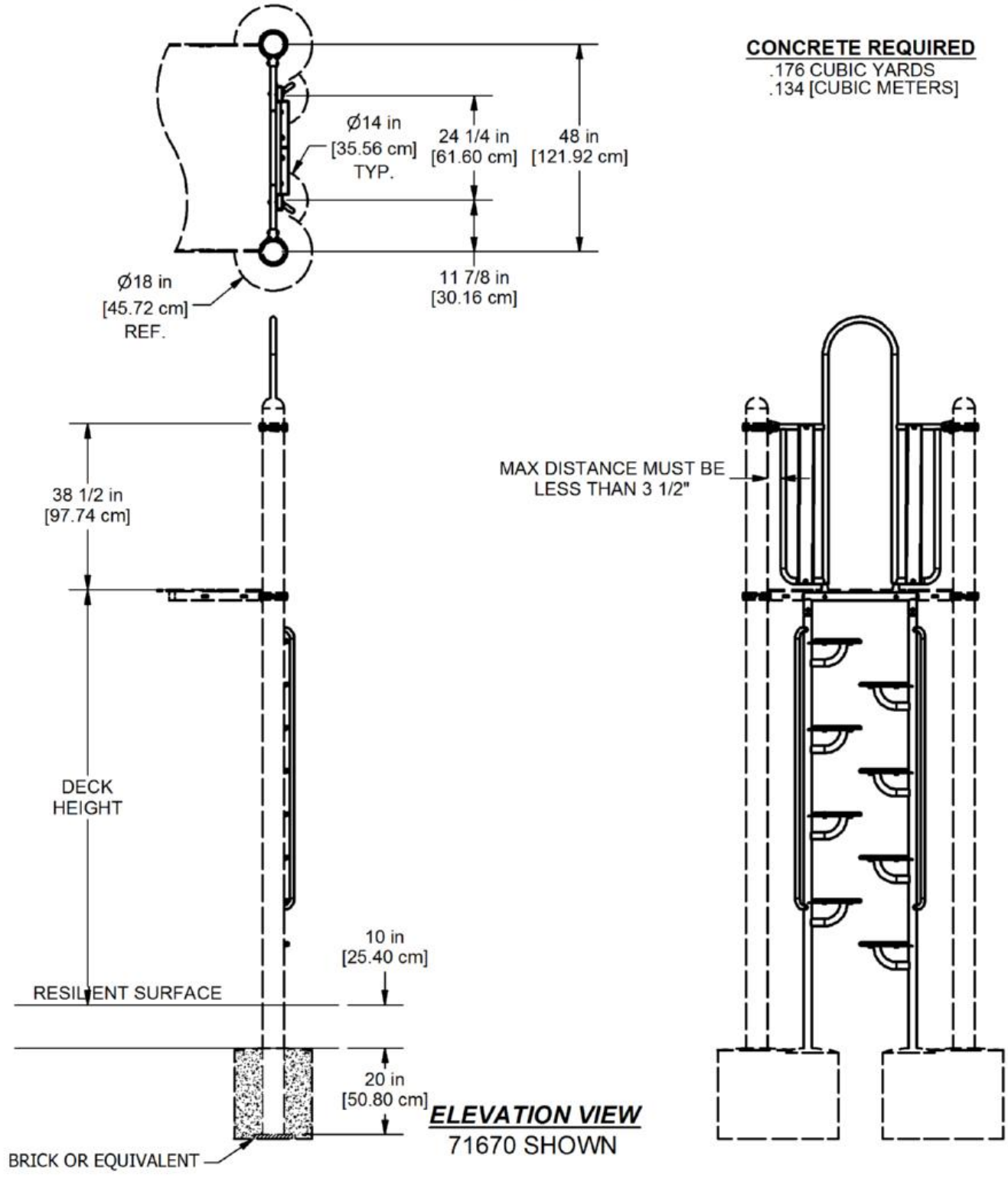
71670 SHOWN

⬡ = INSTALLATION DETAIL

Issued/Revised: 7/25/2013

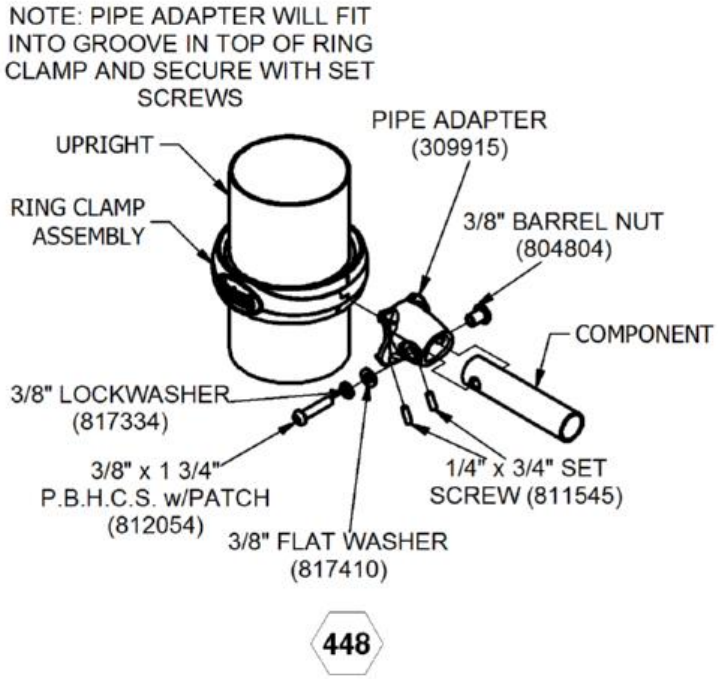
71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER

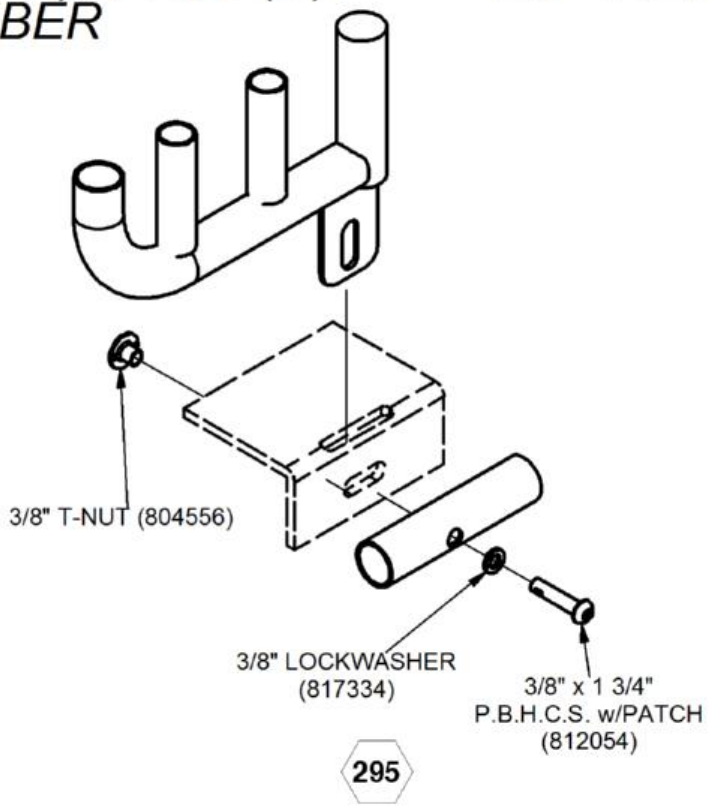
CONCRETE REQUIRED
.176 CUBIC YARDS
.134 [CUBIC METERS]

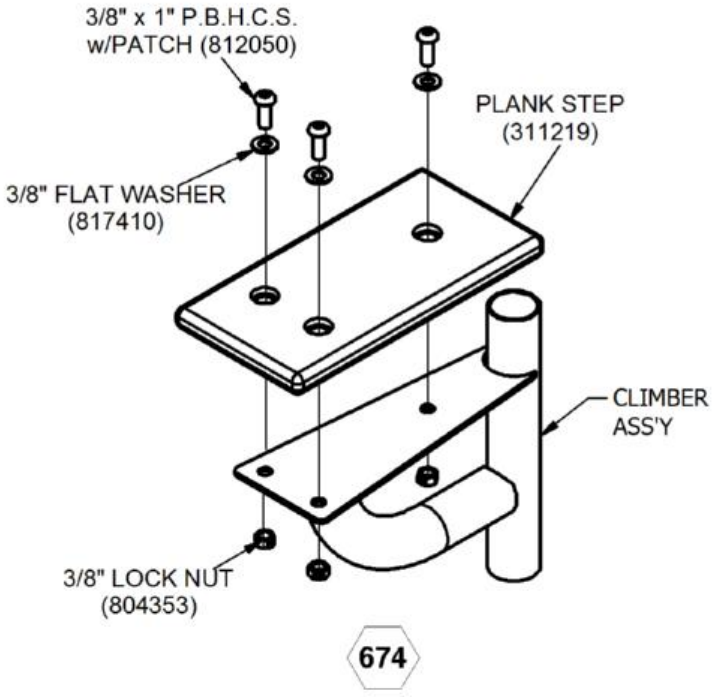


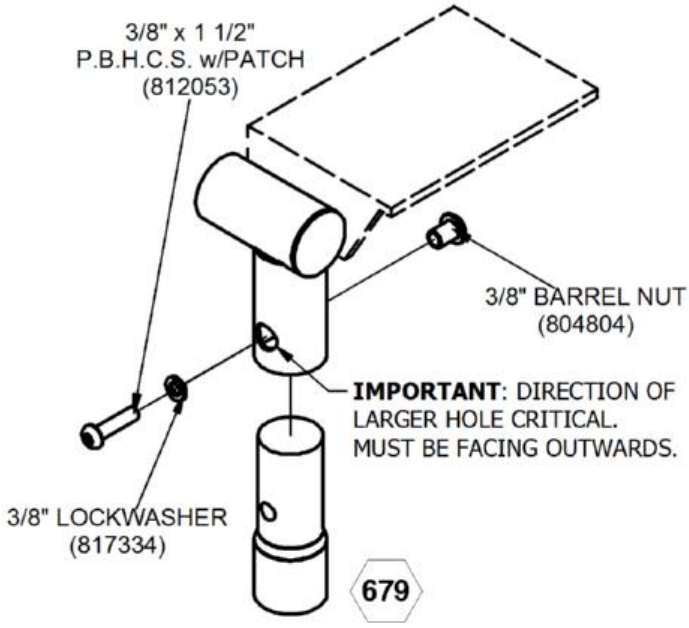
ELEVATION VIEW
71670 SHOWN

71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER

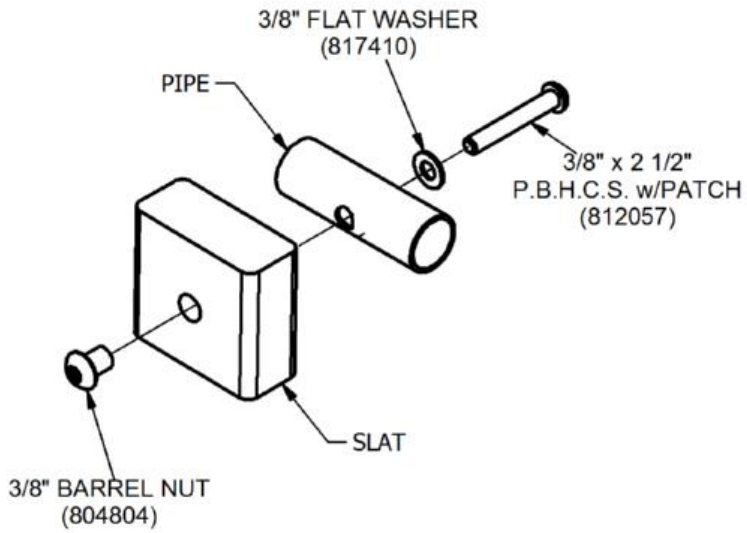








71662 (2'8"); 71663 (3'4"); 71664 (4'); 71665 (4'8"); 71666 (5'4"); 71667 (6'); 71668 (6'8"); 71669 (7'4"); 71670 (8') ZIP STEP CLIMBER



623

SuperMax Play Systems

71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION

Parts List									
DESCRIPTION	71674	71715	71675	71676	71677	71678	71902	71903	PART NUMBER
FOOTBUCK WELD ASS'Y	0	0	0	0	0	0	0	1	204879
1' STRAIGHT SECTION	1	0	0	0	0	0	0	0	205962
CURVED LEFT SECTION	0	0	1	0	0	0	0	0	205963
CURVED RIGHT SECTION	0	0	0	1	0	0	0	0	205964
SPIRAL SECTION	0	0	0	0	0	0	0	0	206170
EXIT SECTION	0	0	0	0	1	0	0	0	206179
2' STRAIGHT SECTION	0	1	0	0	0	0	0	0	207601
LONG EXIT SECTION	0	0	0	0	0	0	0	1	211303
SUPPORT ASS'Y 1	0	0	0	0	0	0	1	0	312634
SUPPORT ASS'Y 2	0	0	0	0	0	1	0	0	312637
FOOTBUCK	0	0	0	0	1	0	0	0	312779
HARDWARE COMPLETE	1	0	0	0	0	0	0	0	207032
HARDWARE COMPLETE	0	1	1	1	0	0	0	0	207033
HARDWARE COMPLETE	0	0	0	0	0	0	0	1	207035
HARDWARE COMPLETE	0	0	0	0	0	0	1	0	207036
HARDWARE COMPLETE	0	0	0	0	1	0	0	0	312781
HARDWARE COMPLETE	0	0	0	0	0	1	0	0	312782
6" EXTENSION	0	0	0	0	0	0	0	1	151080
EXTENSION LEG	0	0	0	0	0	0	1	0	152110
3/8" x 3/4" P.B.H.C.S. w/PATCH	0	0	0	0	4	0	0	4	812052
3/8" x 1" P.B.H.C.S. w/PATCH	2	4	4	4	0	2	2	0	812050
3/8" x 2" P.B.H.C.S. w/PATCH	5	5	5	5	5	0	0	5	812055
3/8" x 2 1/2" HEX HEAD BOLT	0	0	0	0	0	0	1	0	801009
3/8" x 3 1/2" HEX HEAD BOLT	0	0	0	0	0	0	0	1	801013
3/8" FLATWASHER	0	0	0	0	4	2	2	4	817410
3/8" FLAT WASHER (1 1/4" O.D.)	6	6	6	6	6	0	0	6	817424
3/8" LOCK WASHER	5	5	5	5	5	2	2	10	817334
3/8" BARREL NUT LONG	5	5	5	5	5	0	0	5	804820
3/8" HEX NUT	0	0	0	0	0	0	1	1	804053
1/2" FLAT WASHER (1 3/8" O.D.)	6	6	6	6	6	0	0	6	817425

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION

INSTALLATION INSTRUCTIONS:

1. Assemble slide sections on the ground. Bolt each section together using 3/8" Barrel Nut, 1/2" Lockwasher, 1/2" Flat Washer, 1/2" Flat Washer (1 3/8" O.D.), and 3/8" x 2 1/2" Threaded Stud. See Detail 787. **Note:** Hand tighten the five bolts that join each section. **Note:** Refer to your unit's top view for proper placement and orientation of each slide section.

2. Starting at the top section, tighten the five bolts with a wrench. Tighten the top 2 bolts first, the bottom single bolt second, then the remaining 2 bolts as shown, See Figure #1.

3. It is important that each seam between slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.

4. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the area to be adjusted and repeat step 2 and 3 until seams are properly fitted.

5. Attach Footbuck to Exit Section using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lockwasher, and 3/8" Flatwasher. See Detail 195. **Note:** Check slide exit for proper water drainage before concrete is poured. **Note:** The slope of the exit region shall be between 0 and -10° as measured from a plane parallel to the underlying surface.

NOTE: Cut footbuck pipe and support pipe or adjust depth of footing holes to meet correct exit height as shown on exit height chart.

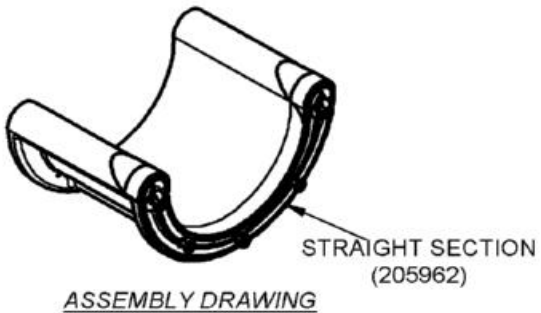
6. After the slide is adjusted and the bolts are tight, attach the slide supports (if required) using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Lockwasher and 3/8" Flat Washer. See Detail 788. **NOTE: Refer to overall top view for slide support location.**

7. Use Detail 789 to plug inserts in Straight and Curved Sections as required with 3/8" x 1" P.B.H.C.S. w/Patch.

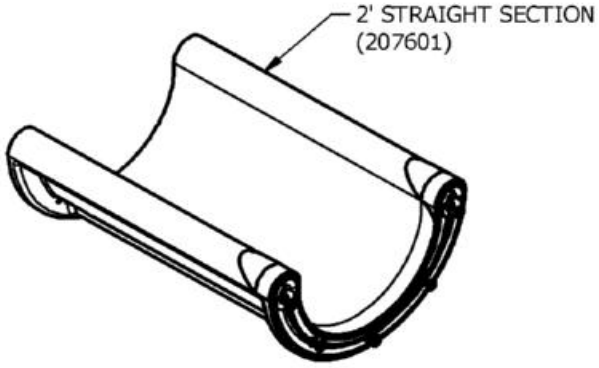
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

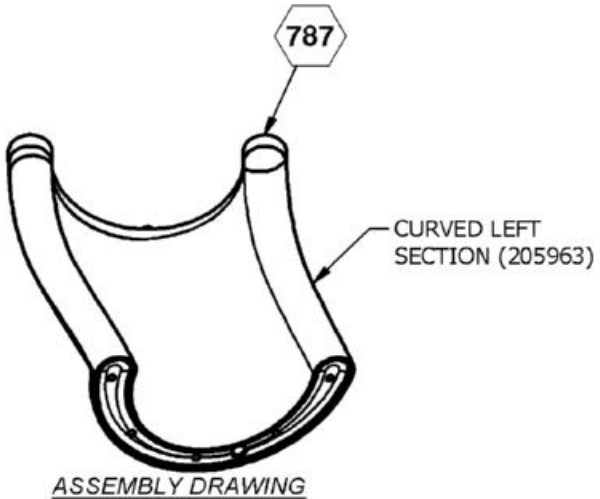
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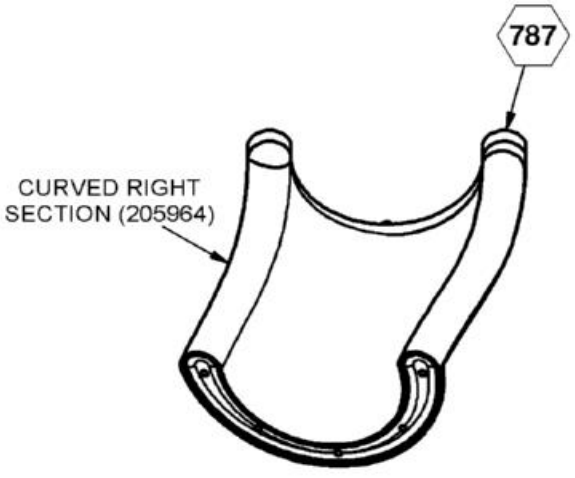
ASSEMBLY DRAWING
71674 SHOWN



ASSEMBLY DRAWING
71715 SHOWN



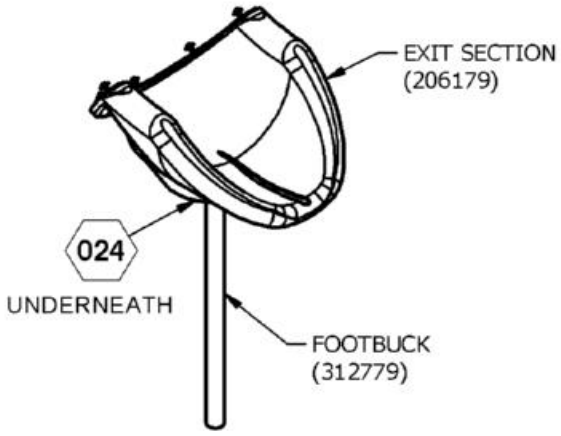
ASSEMBLY DRAWING
71675 SHOWN



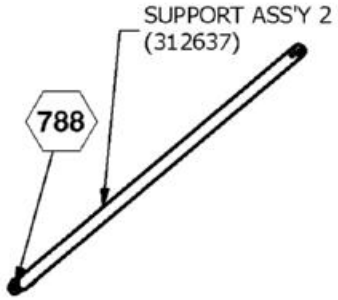
ASSEMBLY DRAWING
71676 SHOWN

⬡ = INSTALLATION DETAIL

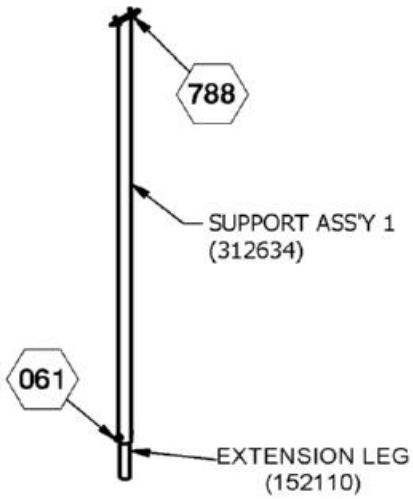
71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION



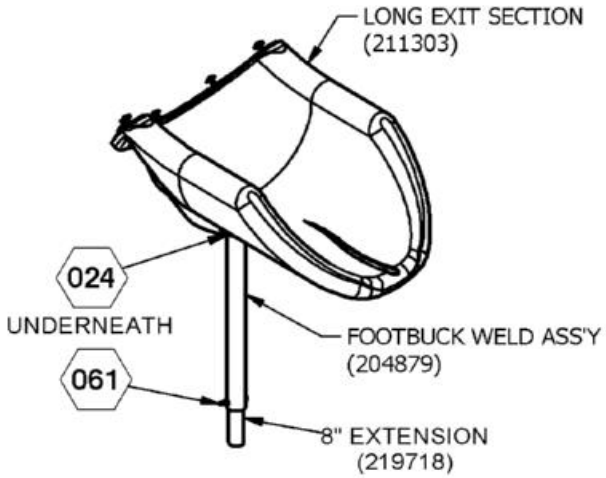
ASSEMBLY DRAWING
71677 SHOWN



ASSEMBLY DRAWING
71678 SHOWN



ASSEMBLY DRAWING
71902 SHOWN

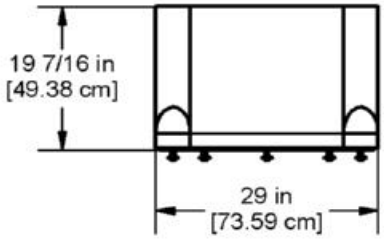


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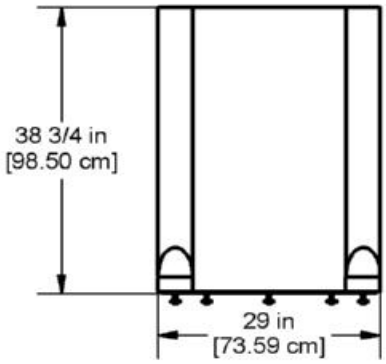
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Issued/Revised: 4/2/2024

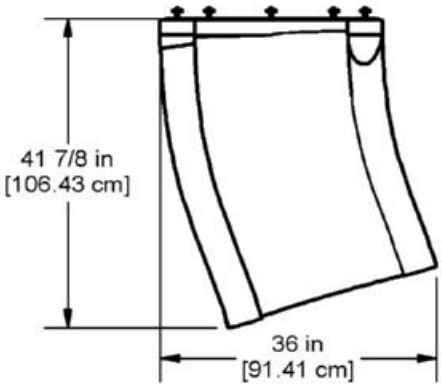
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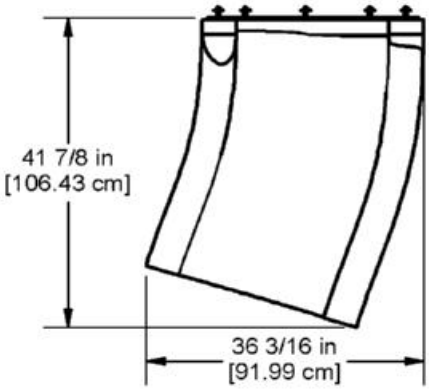
71674



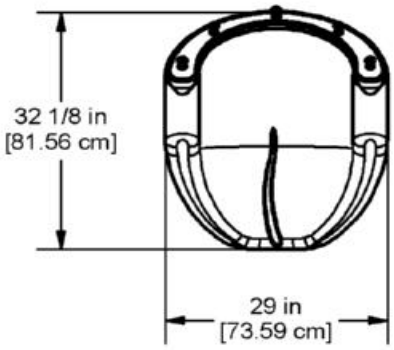
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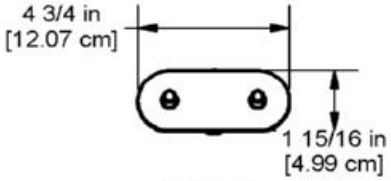
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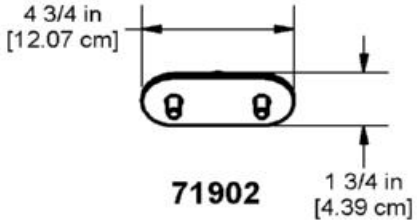
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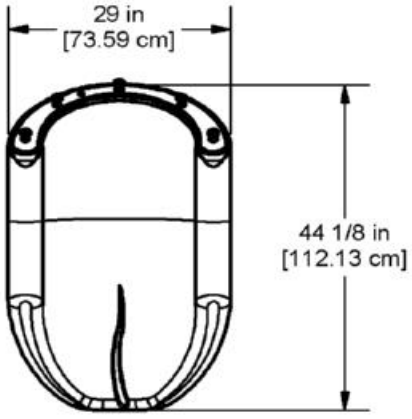
71677



71678



71902



71903

TOP VIEWS

71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION

EXIT HEIGHT CHART -for- 4' and Under	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	11" OR LESS
CSA	275mm OR LESS
EN	200mm OR LESS

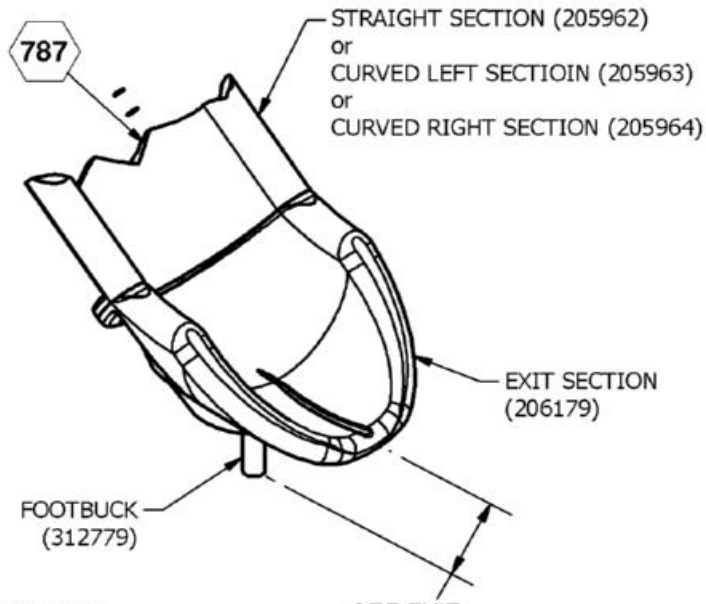
EXIT HEIGHT CHART -for- 4' 8" and Over	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.

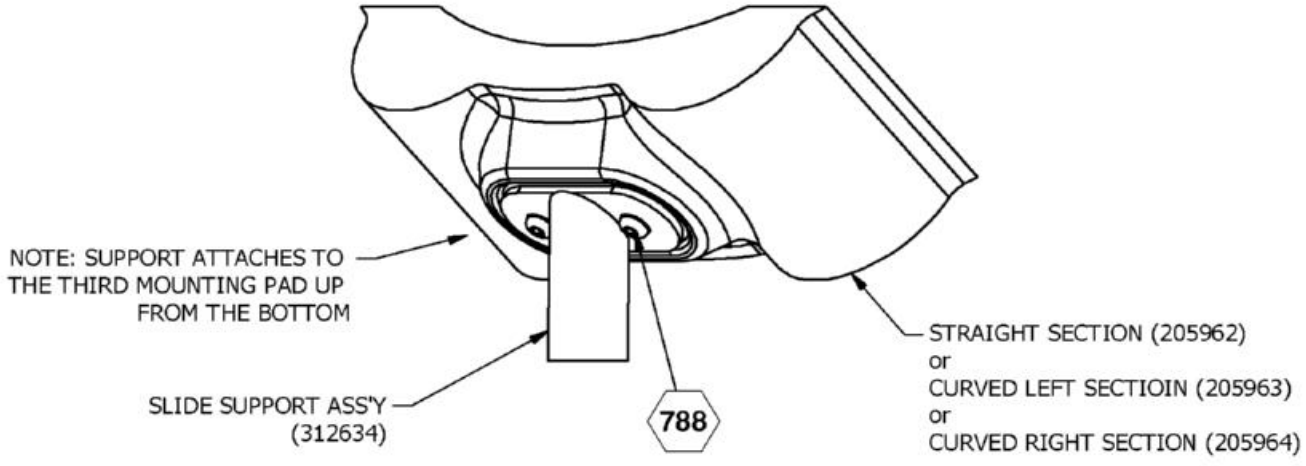
NOTE: THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -10° AS MEASURED FROM A PLANE PARALLEL TO THE UNDERLYING SURFACE.

NOTE: CUT FOOTBUCK AND SUPPORT PIPE OR ADJUST DEPTH OF FOOTING HOLES TO MEET CORRECT EXIT HEIGHT AS SHOWN ON EXITH HEIGHT CHART.

NOTE: CHECK SLIDE EXIT FOR PROPER WATER DRAINAGE BEFORE CONCRETE IS POURED.



EXIT SECTION
ASSEMBLY DRAWING



SLIDE SUPPORT
ASSEMBLY DRAWING

71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION

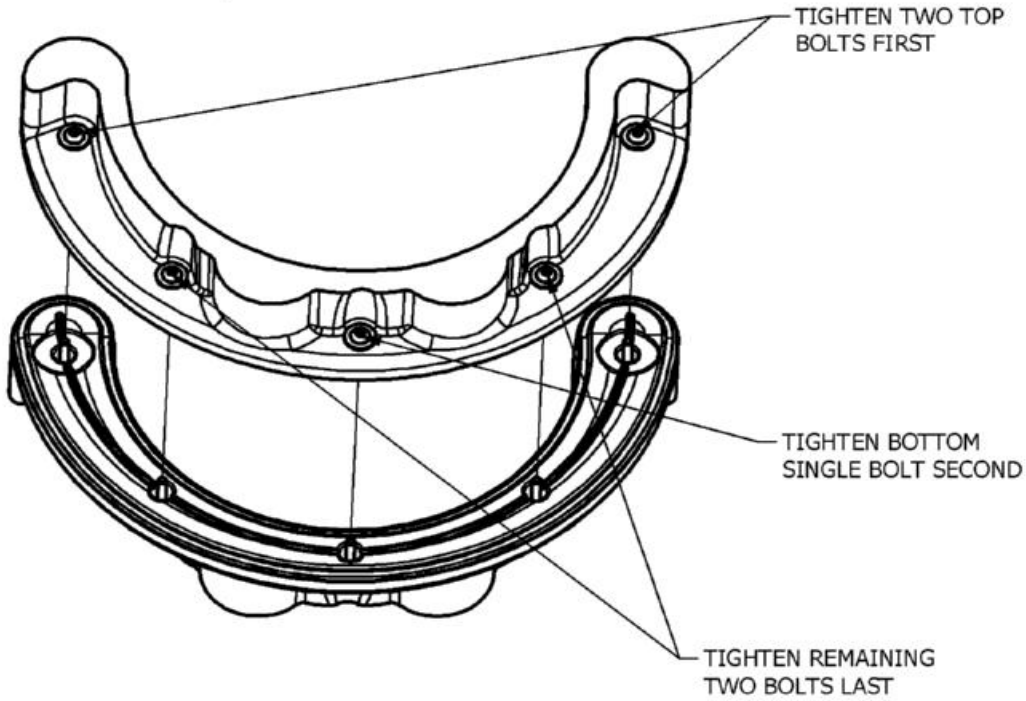


FIGURE #1

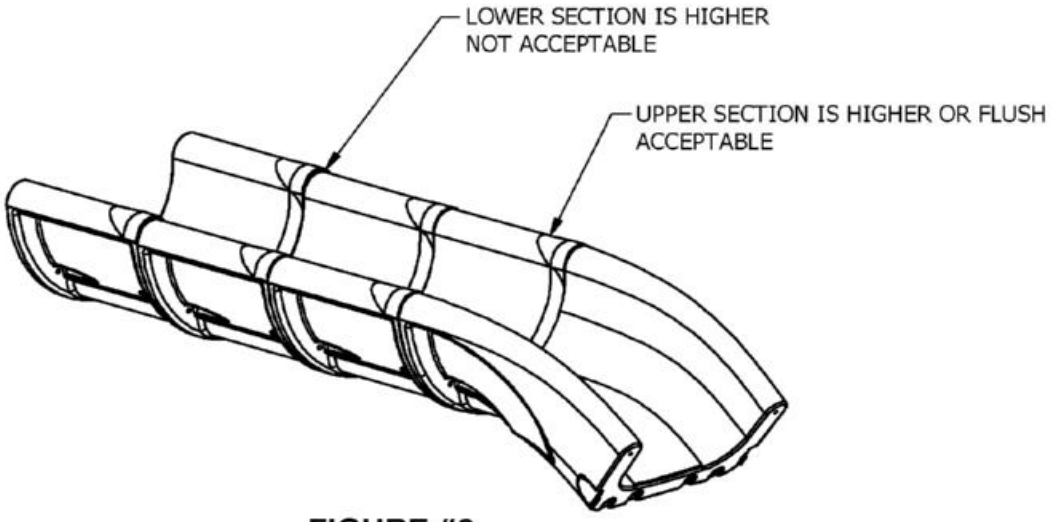
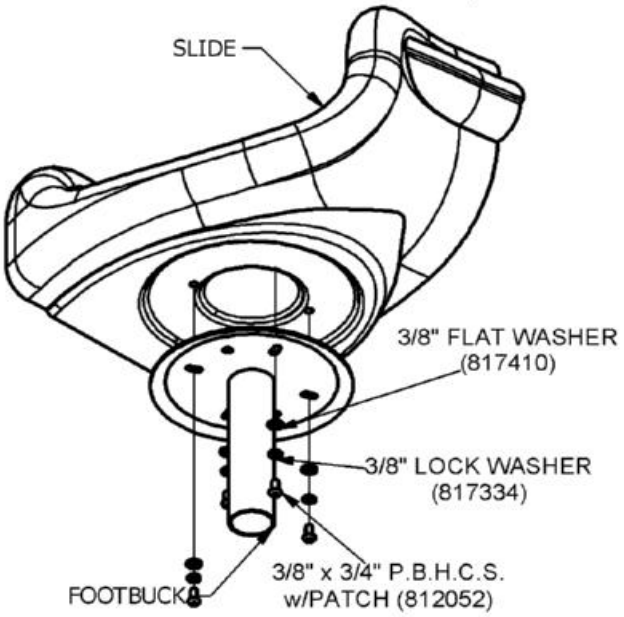
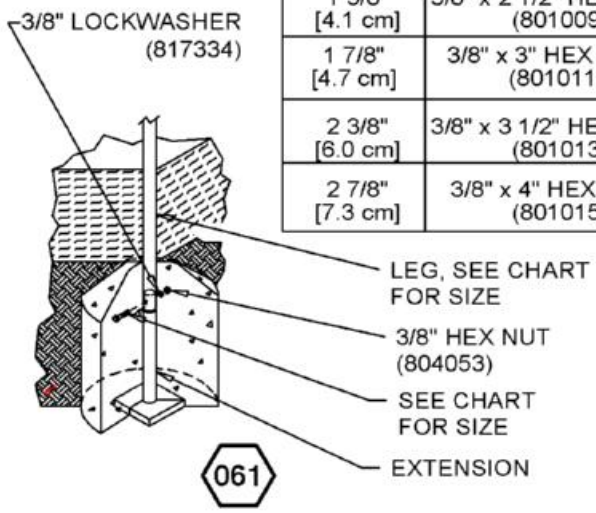


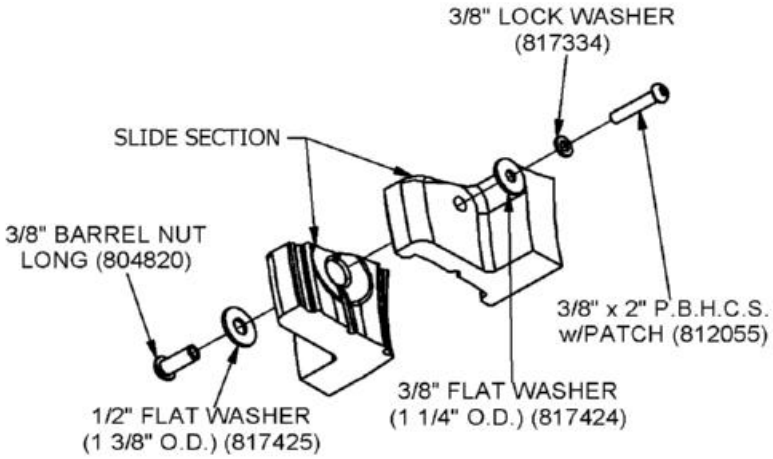
FIGURE #2

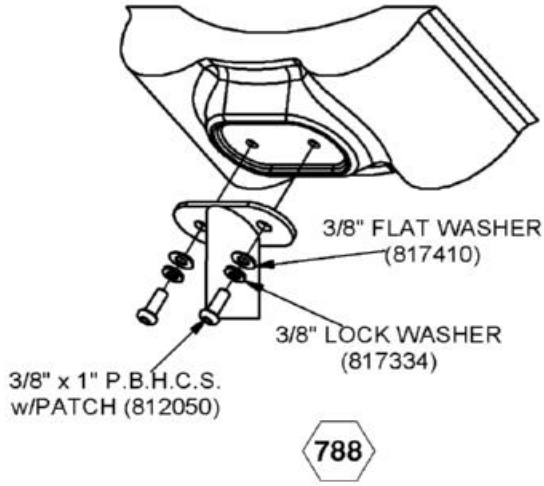
71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION



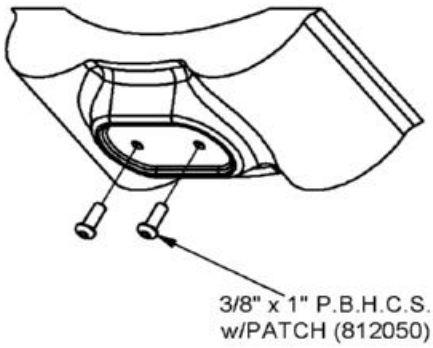


LEG (PIPE DIA.)	BOLT REQUIRED
1 5/16" [3.3 cm]	3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm]	3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm]	3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm]	3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm]	3/8" x 4" HEX HEAD (801015)





71674 1' STRAIGHT SECTION; 71715 2' STRAIGHT SECTION; 71675 CURVE LEFT SECTION; 71676 CURVE RIGHT SECTION; 71677 EXIT SECTION; 71678 SLIDE SUPPORT; 71902 SLIDE SUPPORT 2; 71903 LONG EXIT SECTION



789

SuperMax Sensory Summit

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")

Parts List		
DESCRIPTION	QTY	PART NUMBER
WAVE ARCH	1	211610
WAVE CURVE	1	211611
WAVE DECK COUPLER	2	211614
FOOTBUCK WELD ASS'Y	1	211826
PIPE ADAPTER	4	309915
ARCH ENCLOSURE	2	313908
SENSORY FOOTBUCK	1	314164
HARDWARE COMPLETE	1	303341
1/4" x 3/4" SET SCREW	8	811545
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	8	812054
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	8	812056
3/8" x 5" P.B.H.C.S. w/PATCH	12	812078
3/8" FLAT WASHER (1 1/4" O.D.)	16	817424
3/8" FLAT WASHER	8	817410
3/8" LOCK WASHER	32	817334
3/8" BARREL NUT	16	804804
DOMED PLUG	36	818379

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Range Link and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.
2. Attach Ring Clamps to the Uprights. See Ring Clamp Installation sheet.
3. Attach Pipe Adapters to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 448.
4. Attach Arch Enclosure to the Pipe Adapters using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 448.
5. Attach Wave Deck Coupler to Deck using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" O.D.). See Detail 690.
6. Attach Wave Deck Coupler to Arch Enclosure using 3/8" x 2 1/4" P.B.H.C.S w/Patch and 3/8" Lock Washer. See Detail 849.
7. Assemble all Wave Pieces on the ground before attaching to the Wave Deck Coupler. Attach each piece using 3/8" x 5" P.B.H.C.S w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Barrel Nut. See Detail 859.
8. When using 2'-8" thru 5'-4" deck heights refer to Material Removed Chart in Finished Assembly View for Footbuck Weld Ass'y cut lengths.
9. Attach Footbuck Weld Ass'y to Wave Arch and Wave Curve using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 024.
10. Place Footbuck Weld Ass'ys into footing holes and attach to the Wave Deck Coupler using 3/8" x 5" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer (1 1/4" O.D.), and 3/8" Barrel Nut. See Detail 859.
11. If there are no activities being attached to the Wave Arch plug unused holes with Domed Plug. See Detail 878.
12. When the Range Link is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

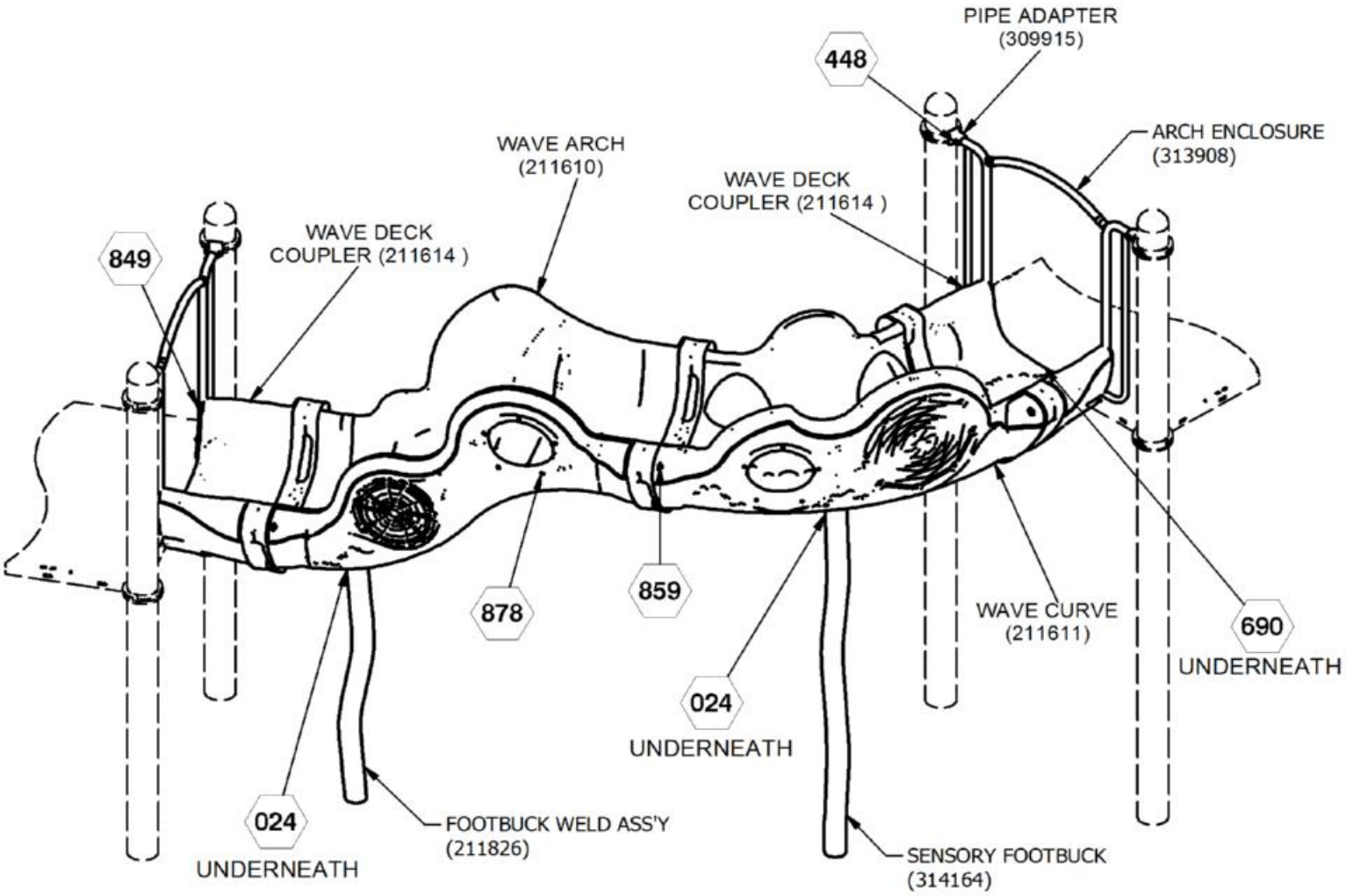
13. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Sensory Summit

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")



MATERIAL REMOVED CHART		
DECK HEIGHT	211826	314164
6'-0"	0"	0"
5'-4"	7 1/2"	8"
4'-8"	15 1/2"	16"
4'-0"	23 1/2"	24"
3'-4"	31 1/2"	32"
2'-8"	39 1/2"	40"

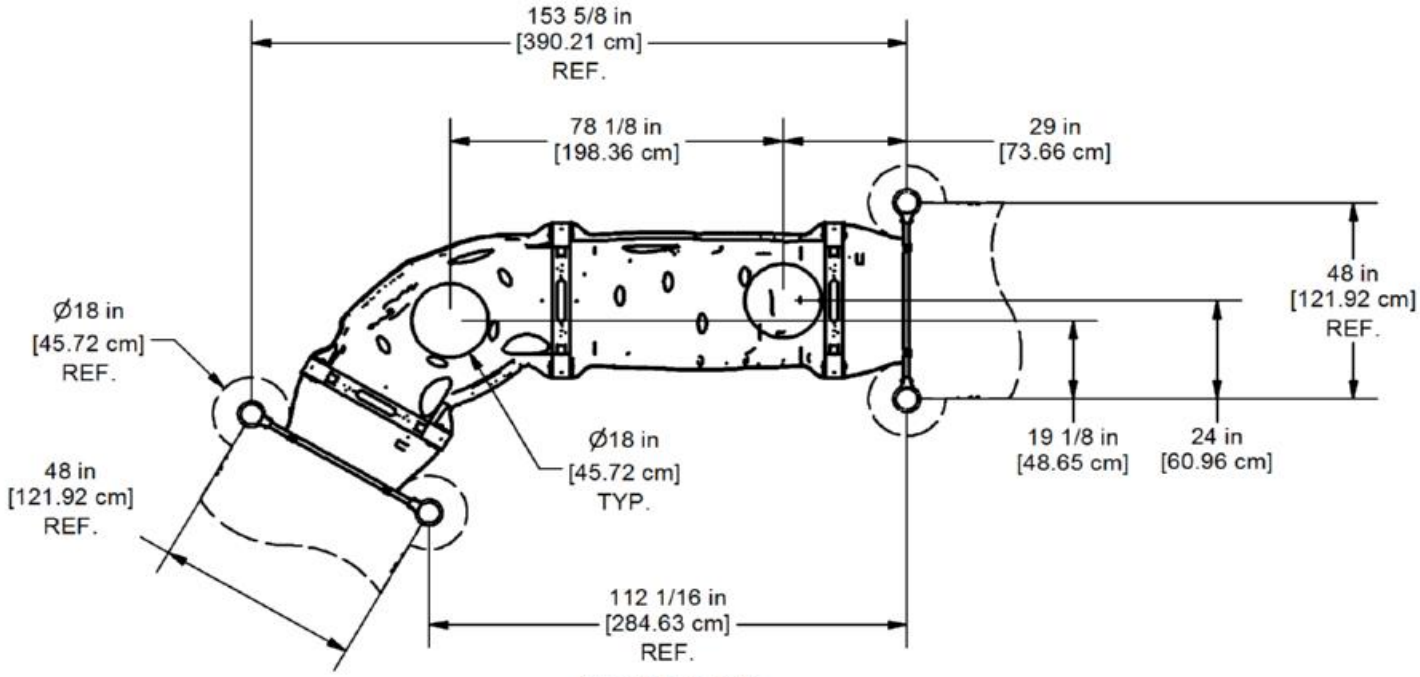
⬡ = INSTALLATION DETAIL

FINISHED ASSEMBLY
6'-0" DECK HEIGHT SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

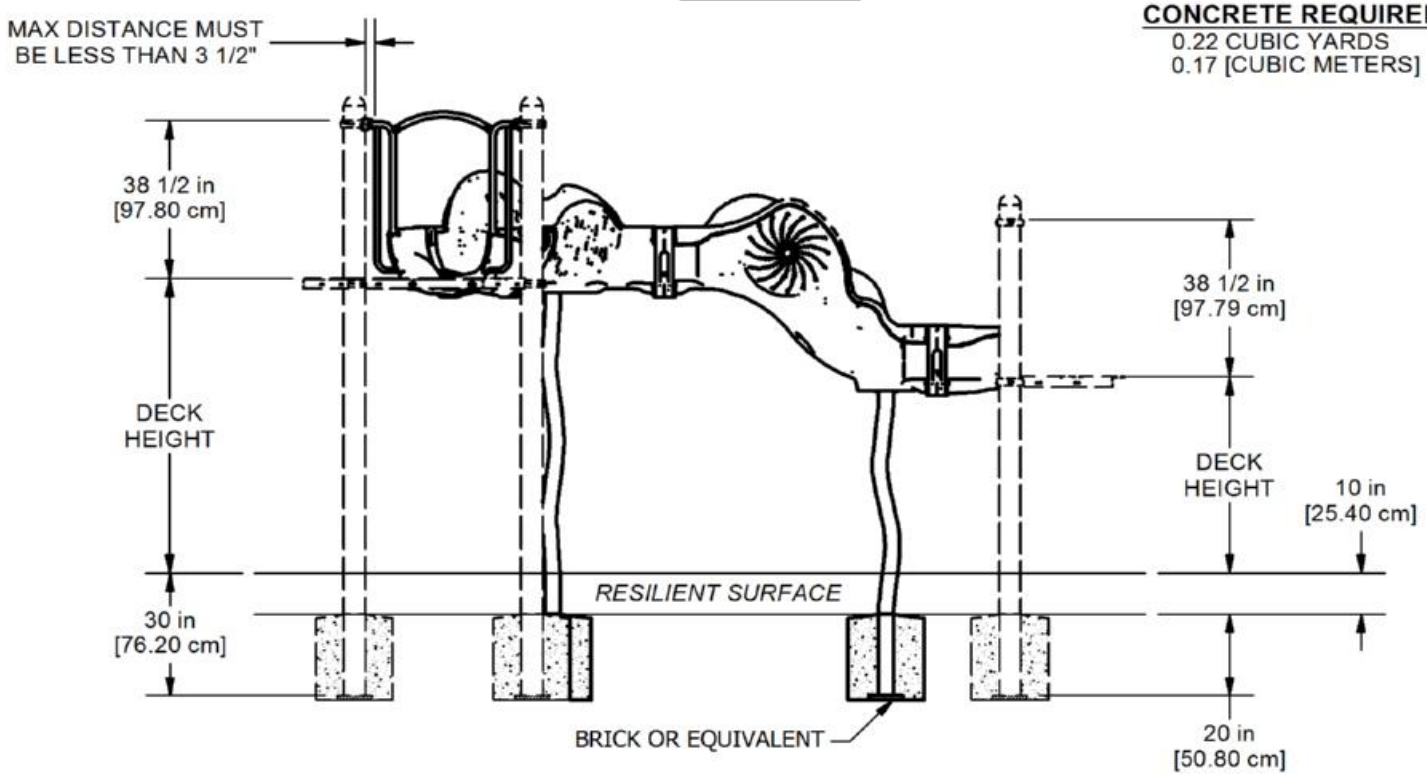
Issued/Revised: 3/16/2017

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")



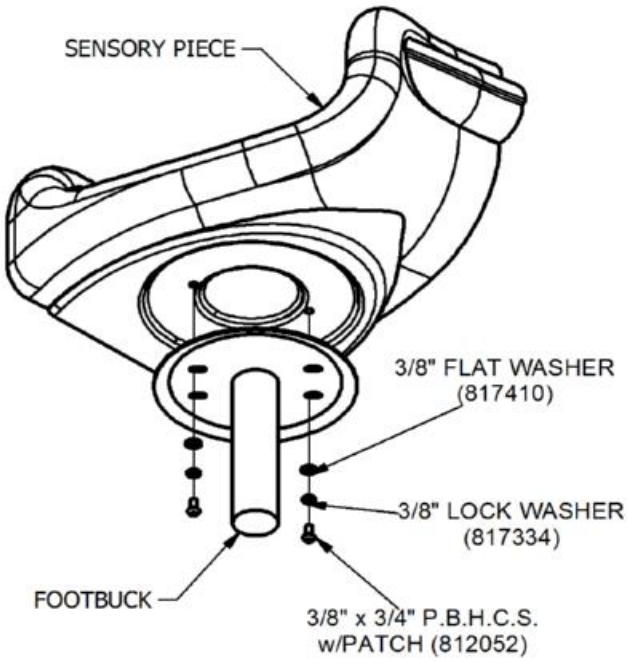
PLAN VIEW

CONCRETE REQUIRED
0.22 CUBIC YARDS
0.17 [CUBIC METERS]



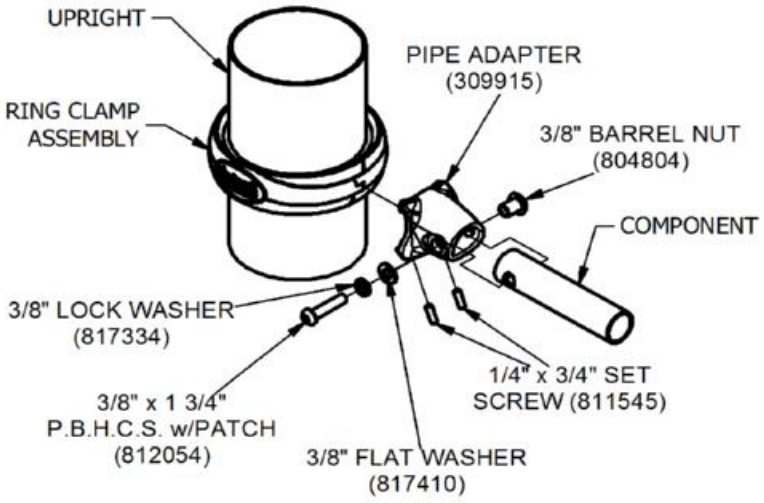
ELEVATION VIEW
6'-0" DECK HEIGHT SHOWN

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")

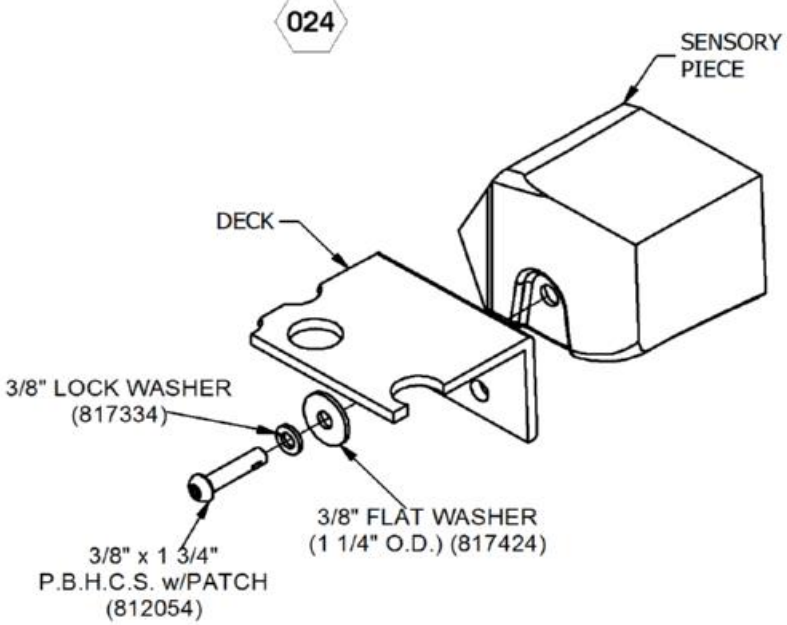


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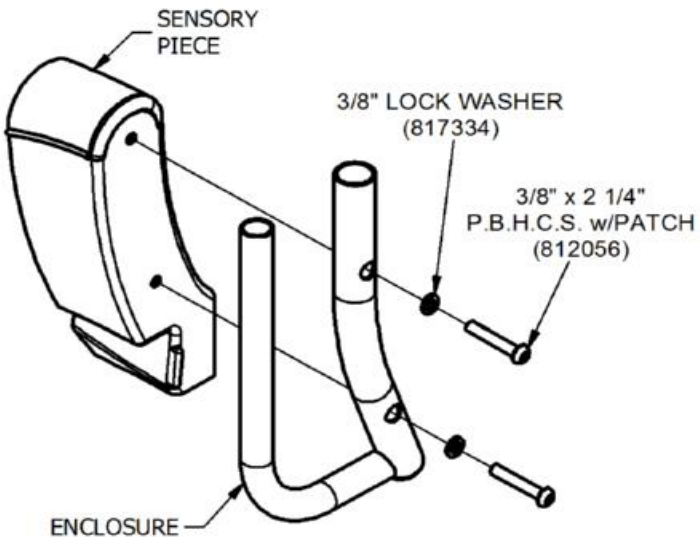
NOTE: PIPE ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS



448

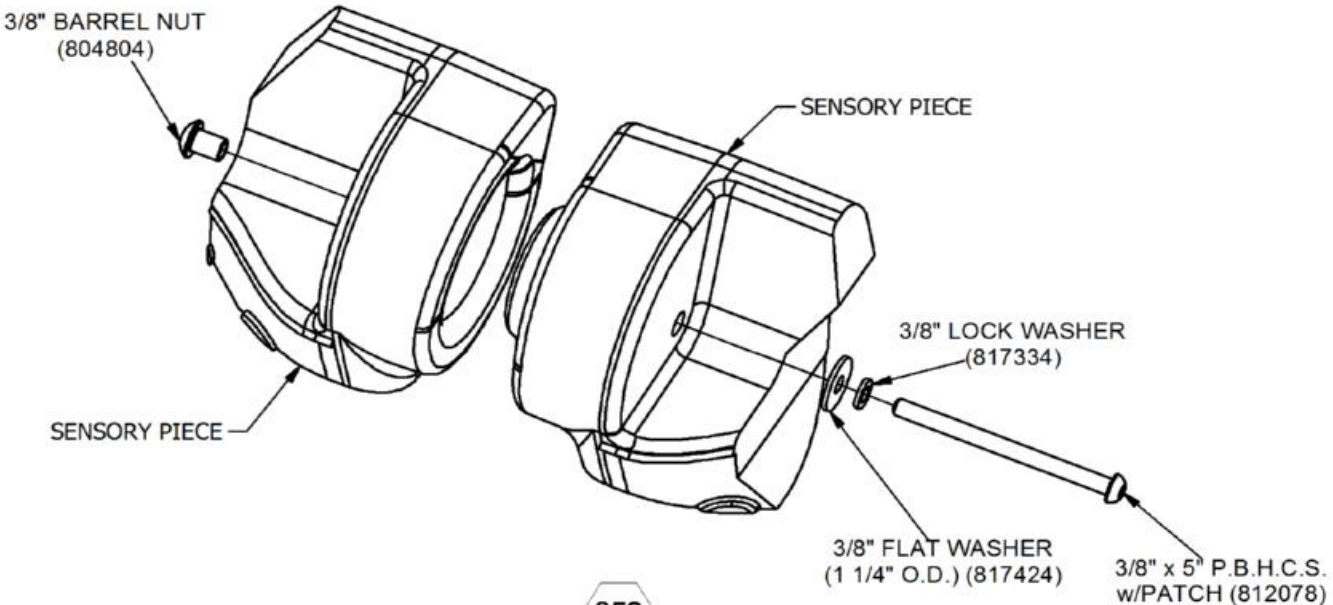


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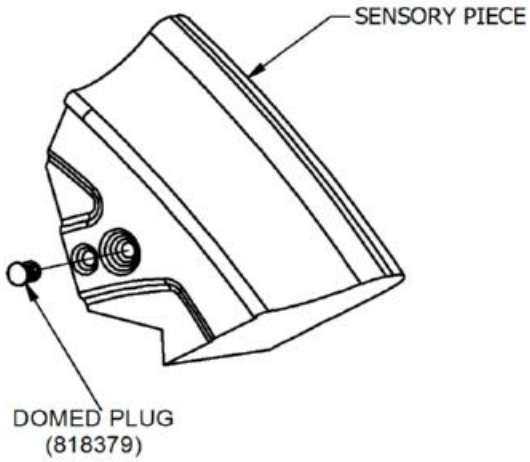


849

71810 RANGE LINK 1 - CLIMBER ONLY (2'-8" THRU 6'-0")



859



878

SuperMax Play Systems

71896 SINGLE SPIRAL CASCADE SLIDE

Parts List		
DESCRIPTION	QTY	PART NUMBER
FOOTBUCK WELD ASS'Y	1	204879
SINGLE ENTRANCE SECTION	1	205960
STRAIGHT SECTION	1	205962
HELIX SPIRAL	1	206170
OUTRIGGER	1	209049
HELIX SPIRAL 140 DEGREES	1	210735
EXIT SECTION	1	211303
PANEL ADAPTER	2	309919
SLIDE HOOD	1	312484
SUPPORT ASS'Y 1	2	312634
HARDWARE COMPLETE	1	304039
1/4" x 3/4" SET SCREW	4	811545*
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" x 1" P.B.H.C.S. w/PATCH	6	812050*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051*
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 2" P.B.H.C.S. w/PATCH	19	812055*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	1	812056*
3/8" LOCK WASHER	28	817334*
3/8" FLAT WASHER	10	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	25	817424*
3/8" BARREL NUT	2	804804*
3/8" BARREL NUT LONG	20	804820*
1/2" FLAT WASHER (1 3/8" O.D.)	21	817425*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71896 SINGLE SPIRAL CASCADE SLIDE

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the slide and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.

2. Using a 7/16" drill bit, ream out any excess Plastisol coating from all holes used on deck. Be careful not to expose the steel.

3. Attach the Ring Clamps to the Uprights. See Ring Clamp Installation Sheet.

4. Attach Panel Adapters to Slidehood using 3/8" x 1 1/2" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut.See Detail 672.

5. Attach Panel Adapters with Slidehood to the Ring Clamps using 1/4" x 3/4" Set Screw. See Detail 672.

6. Attach Single Entrance Section to Deck using 3/8" x 1 1/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 136.

7. Attach Single Entrance Section to Slidehood using 3/8" x 1 3/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 673.

8. Assemble all Slide Sections on the ground. Attach each Section using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" OD), 1/2" Flat Washer and 3/8" Barrel Nut Long. See Detail 787 and 852. **Note:** Hand tighten the five bolts that join each section. **Note:** Refer to your unit's top view for proper placement and orientation of each slide section. **Note:** Distance between upright and inside surface of slide must be 21" min. See Detail 909.

9. Once all sections are bolted together, hand tight, install the Slide to the Double Entrance Section using 3/8" x 2 1/2" Threaded Stud, 1/2" Flat Washer (1 3/8" O.D.), 1/2" Flat Washer, 1/2" Lock Washer, and 3/8" Barrel Nut. See Detail 787.

10. Starting at the top section, tighten the 5 bolts with a wrench. Tighten the top 2 bolts first, the bottom single bolt second, then the remaining 2 bolts as shown. See Figure #1.

11. It is important that each seam between slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.

12. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the area to be adjusted and repeat steps 10 and 11 until seams are properly fitted.

13. Attach Support Ass'y 1 to Helix Spiral 140 degrees using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 788.

14. Attach Outrigger to Helix Spiral using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" OD), 1/2" Flat Washer and 3/8" Barrel Nut Long. See Detail 840.

15. Attach Support Ass'y 1 to Helix Spiral using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Lock Washer. See Detail 788. **Note:** Cut Footbuck or Support Ass'y 1 or adjust depth of footing holes to meet correct exit height.

16. Attach Foot Buck to Exit Section with 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flatwasher. See Detail 024. **Note:** Check slide exit for proper water drainage before concrete is poured. **Note:** The slope of the exit region shall be between 0 and -10° as measured from a plane parallel to the underlying surface.

17. Use 3/8" x 1" P.B.H.C.S. w/Patch to fill unused support holes in remaining sections. See Detail 789.

18. When the Slide is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

19. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

71896 SINGLE SPIRAL CASCADE SLIDE

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

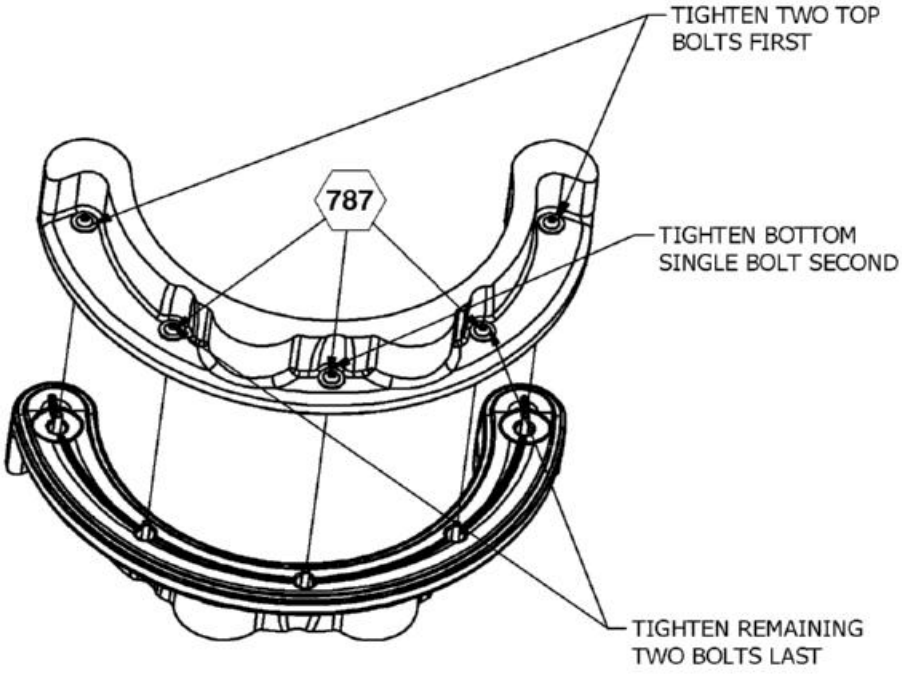


FIGURE #1

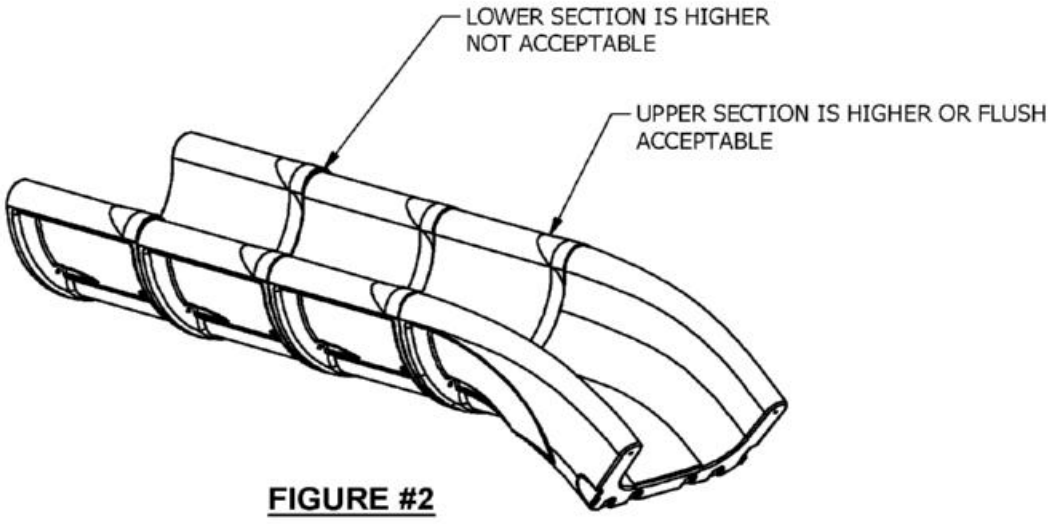
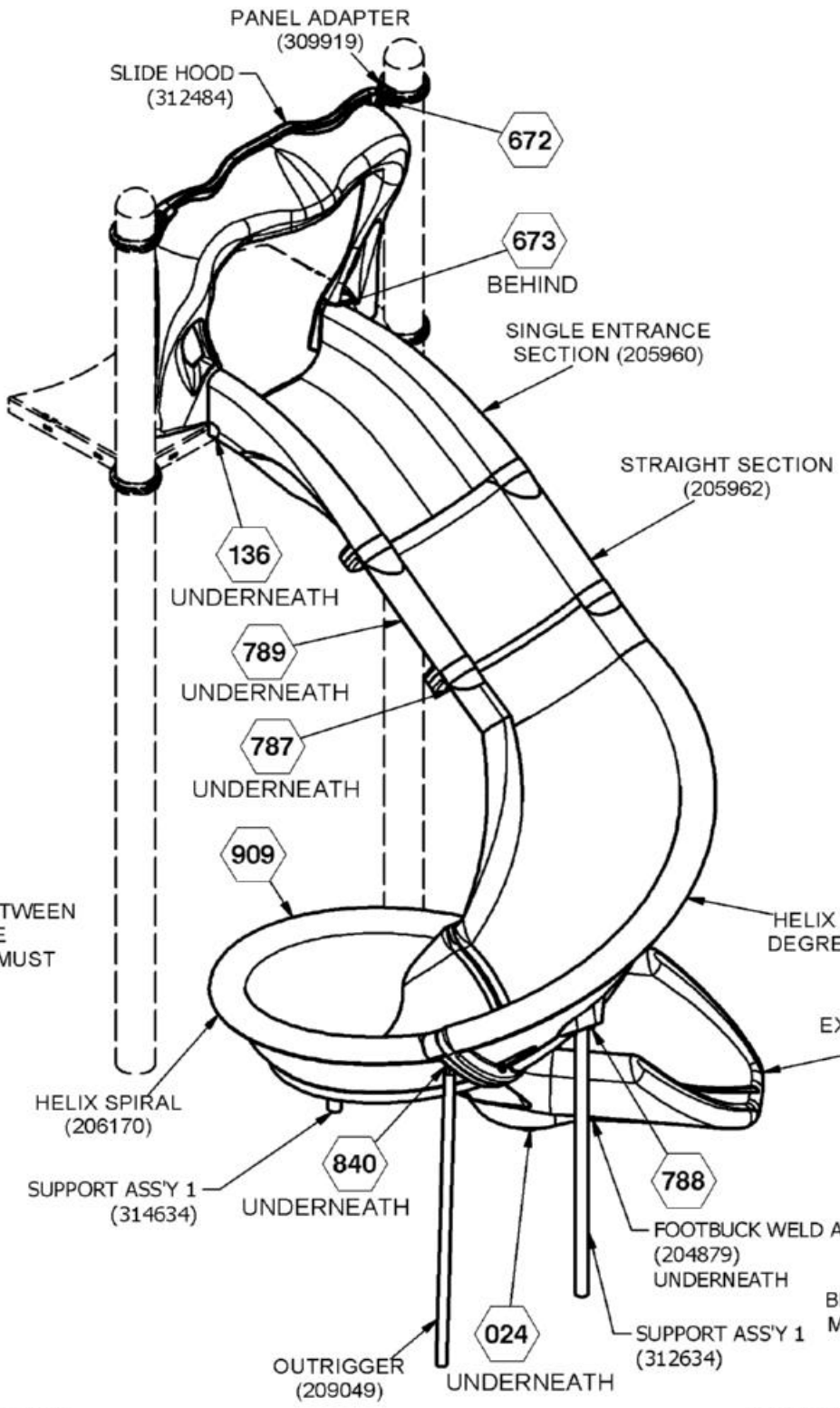


FIGURE #2

71896 SINGLE SPIRAL CASCADE SLIDE



NOTE: DISTANCE BETWEEN UPRIGHT AND INSIDE SURFACE OF SLIDE MUST BE 21" MIN. SEE DETAIL 909.

NOTE: CHECK SLIDE EXIT FOR PROPER WATER DRAINAGE BEFORE CONCRETE IS APPLIED

NOTE: THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -10° AS MEASURED FROM A PLANE PARALLEL TO THE UNDERLYING SURFACE

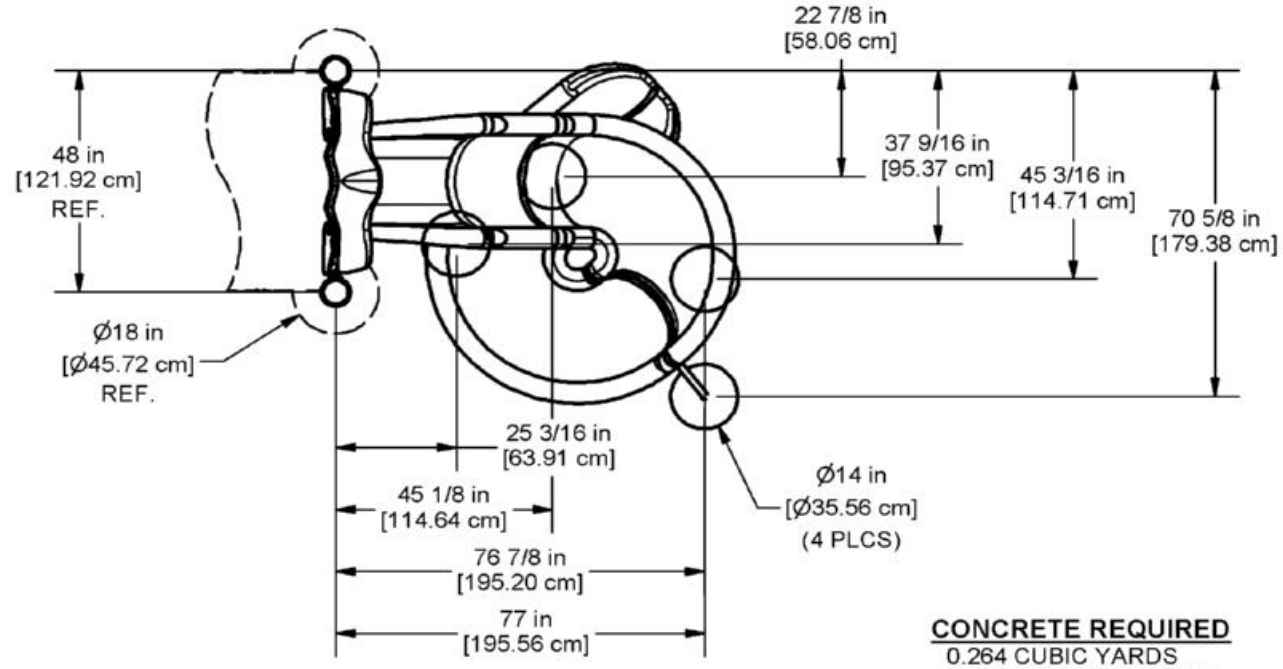
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

Issued/Revised: 5/2/2024

FINISHED ASSEMBLY

71896 SINGLE SPIRAL CASCADE SLIDE



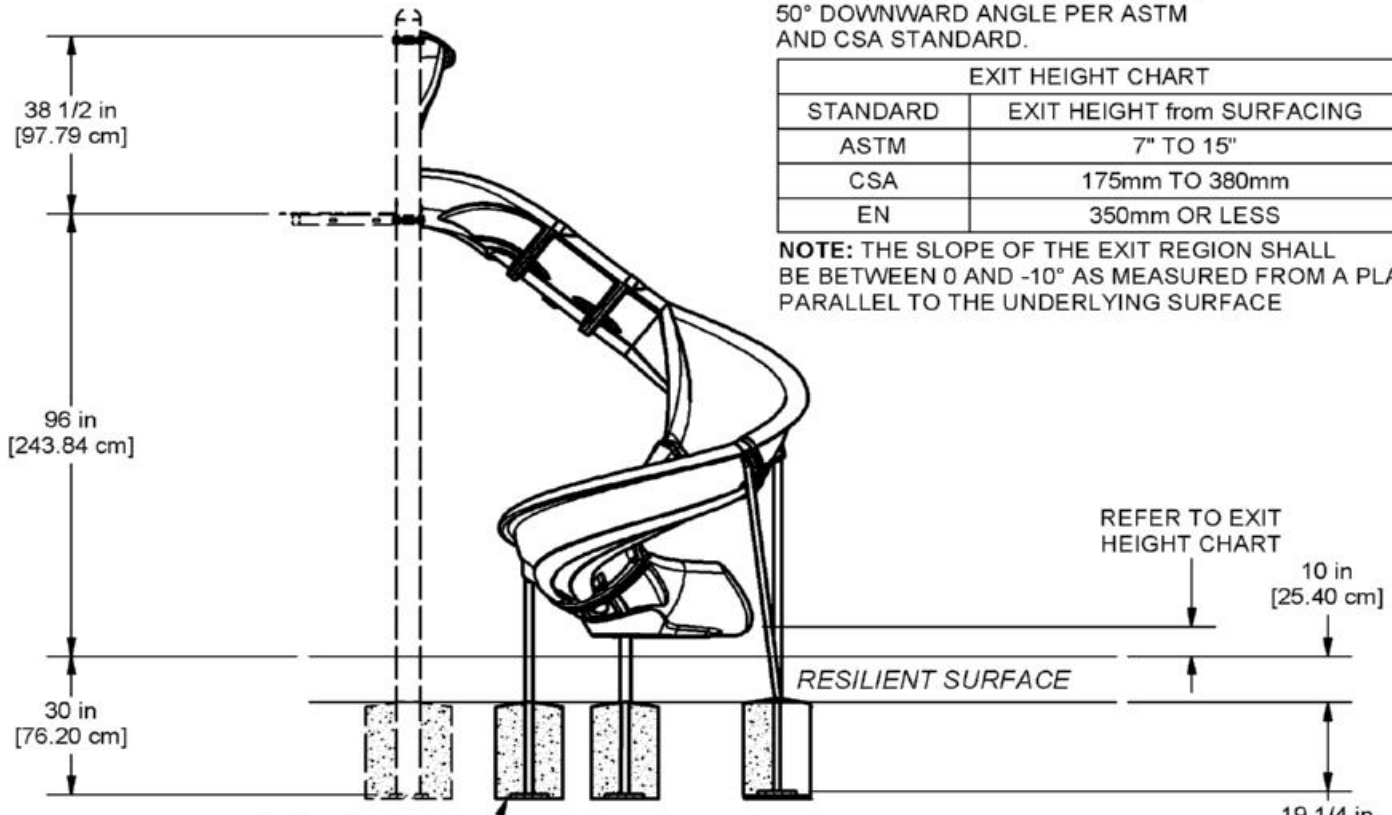
CONCRETE REQUIRED
0.264 CUBIC YARDS
0.202 [CUBIC METERS]

PLAN VIEW

NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.

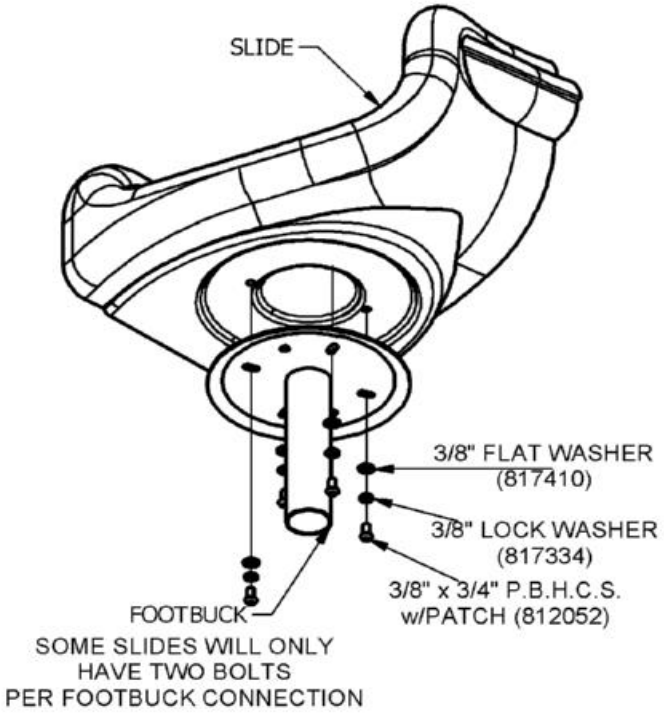
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

NOTE: THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -10° AS MEASURED FROM A PLANE PARALLEL TO THE UNDERLYING SURFACE

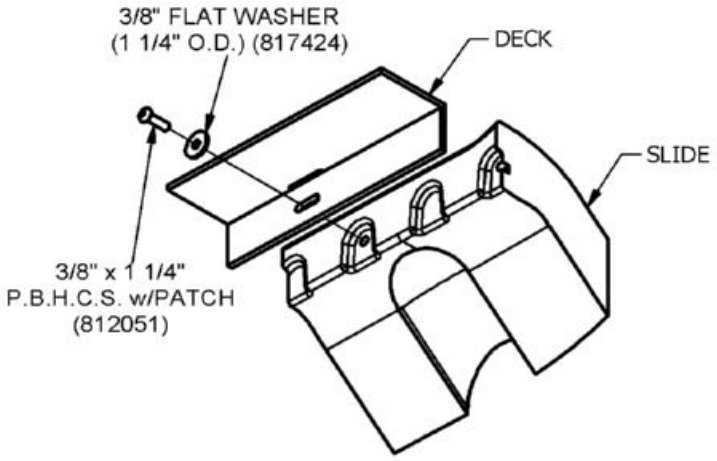


ELEVATION VIEW

71896 SINGLE SPIRAL CASCADE SLIDE

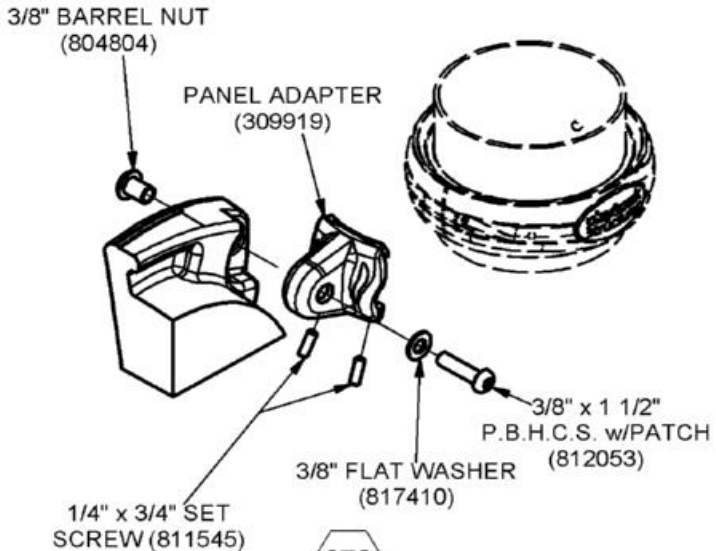


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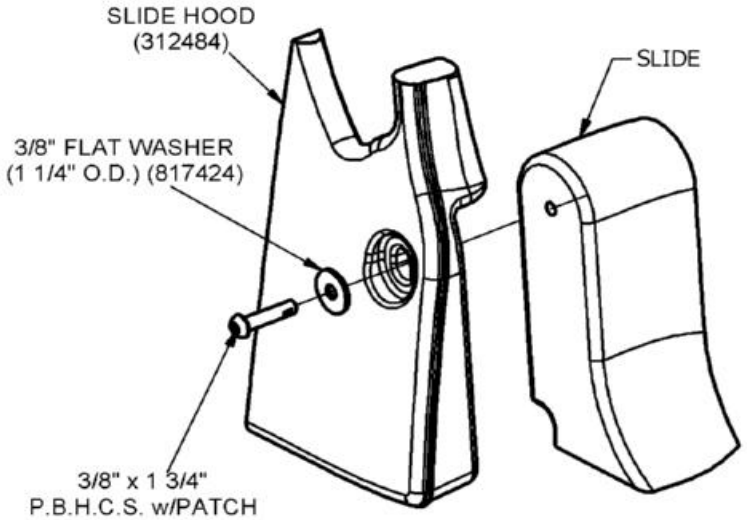


136

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS

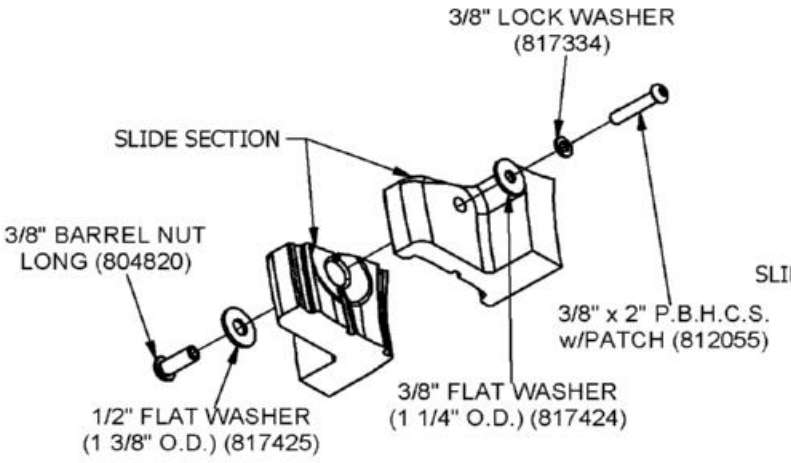


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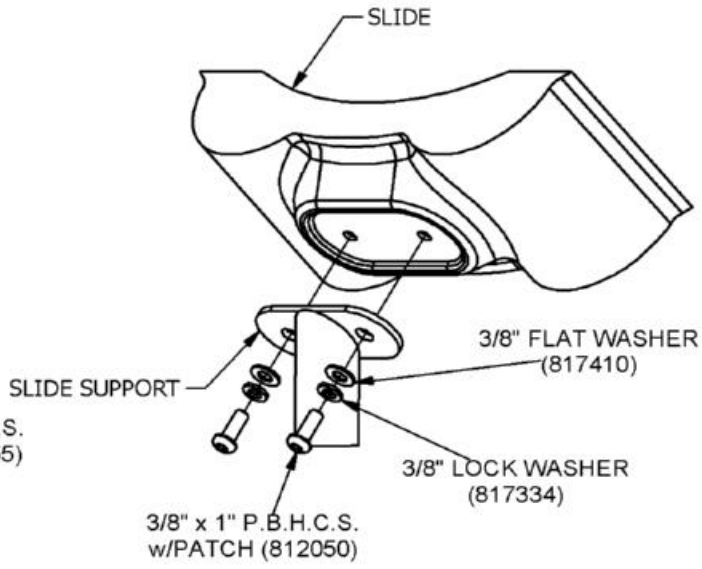


673

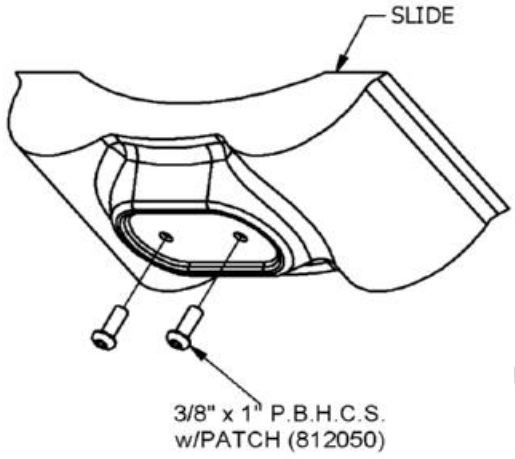
71896 SINGLE SPIRAL CASCADE SLIDE



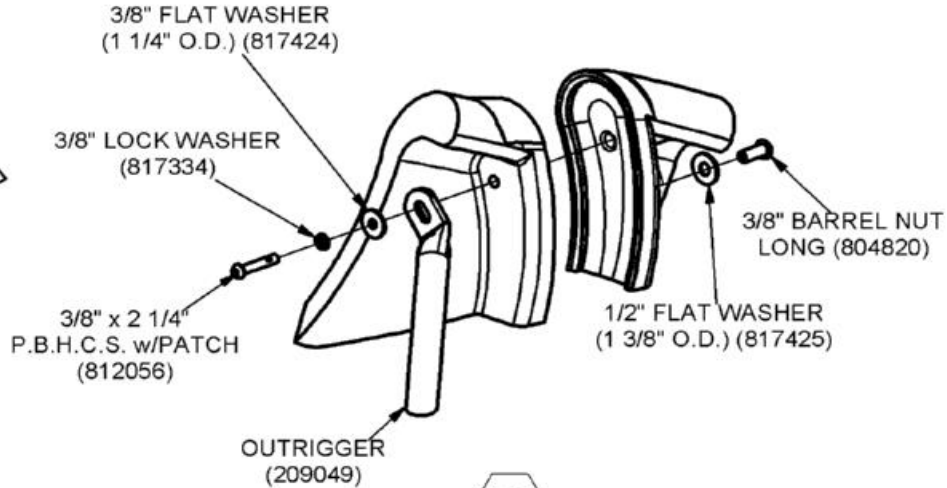
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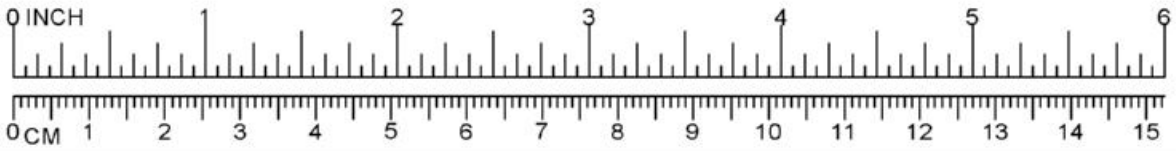
788



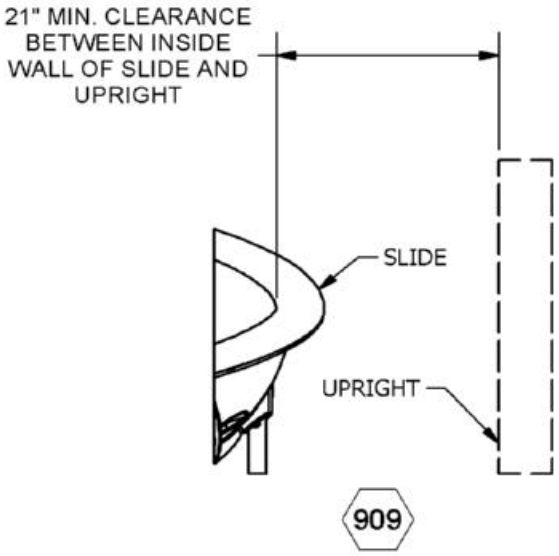
789



840



71896 SINGLE SPIRAL CASCADE SLIDE



SuperMax Play Systems

71897 DUELING CRISS-CROSS CASCADE

Parts List		
DESCRIPTION	QTY	PART NUMBER
FOOTBUCK WELD ASS'Y	1	204879
STRAIGHT SECTION	1	205962
CURVED RIGHT SECTION	1	205964
DOUBLE ENTRANCE SECTION	1	206167
DOUBLE STRAIGHT SECTION	1	207601
HELIX SPIRAL 140 DEGREES	1	210735
OVER AND UNDER SLIDE SUPPORT	1	211221
EXIT SECTION	1	211303
PANEL ADAPTER	2	309919
SUPPORT ASS'Y 1	1	312634
SUPPORT ASS'Y 2	1	312637
DOUBLE ENTRANCE SLIDEHOOD	1	312730
HARDWARE COMPLETE	1	304417
1/4" x 3/4" SET SCREW	4	811545*
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" x 1" P.B.H.C.S. w/PATCH	14	812050*
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051*
3/8" x 1 3/4" P.B.H.C.S. w/PATCH	2	812054*
3/8" x 2" P.B.H.C.S. w/PATCH	26	812055*
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	1	812056*
3/8" LOCK WASHER	33	817334*
3/8" FLAT WASHER	10	817410*
3/8" FLAT WASHER (1 1/4" O.D.)	32	817424*
3/8" BARREL NUT	2	804804*
3/8" BARREL NUT LONG	25	804820*
1/2" FLAT WASHER (1 3/8" O.D.)	26	817425*

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

71897 DUELING CRISS-CROSS CASCADE

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the slide and dig footing at location shown in Top View. Refer to the Elevation View for footing depth.
2. Using a 7/16" drill bit, ream out any excess Plastisol coating from all holes used on deck. Be careful not to expose the steel.
3. Attach the Ring Clamps to the Uprights. See Ring Clamp Installation Sheet.
4. Attach Panel Adapters to Double Entrance Slidehood using 3/8" x 1 3/4" P.B.H.C.S. w/Patch, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 715.
5. Attach Panel Adapters with Double Entrance Slidehood to the Ring Clamps using 1/4" x 3/4" Set Screws. See Detail 715.
6. Attach Double Entrance Section to Deck using 3/8" x 1 1/4" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 136.
7. Attach Double Entrance Section to Double Entrance Slidehood using 3/8" x 2" P.B.H.C.S. w/Patch and 3/8" Flat Washer (1 1/4" O.D.). See Detail 716.
8. Assemble all Slide Sections on the ground. Attach each Section using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" OD), 1/2" Flat Washer and 3/8" Barrel Nut Long. See Detail 787. **Note:** Hand tighten the 5 bolts that join each secion. **Note:** Refer to your unit's top view for proper placement and orientation of each slide section.
9. Once all sections are bolted together, hand tight, install the slides to the Double Entrance Sectionusing 3/8" x 2 1/2" Threaded Rod, 1/2" Flat Washer (1 3/8" O.D.), 1/2" Flat Washer, 1/2" Lock Washer, and 3/8" Barrel Nut.. See Detail 787.
10. Starting at the top section, tighten the 5 bolts with a wrench. Tighten the top 2 bolts first, the bottom bolt second, then the remaining 2 bolts as shown. See Figure #1.
11. It is important that each seam betweeen slide sections are as tight as possible. Be sure that the seams are flush or higher on the upper piece. See Figure #2.
12. After tightening all the pieces, if seam adjustment is necessary, slightly loosen the bolts in the are to be adjusted and repeat steps 10 and 11 until seams are properly fitted.
13. Attach Slide Support to Helix Spiral 140 degrees using 3/8" x 2 1/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer (1 1/4" OD), 1/2" Flat Washer and 3/8" Barrel Nut Long. See Detail 392.
14. Attach Support Ass'y 2 to Helix Spiral 140 degrees using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flat Washer. See Detail 788.
15. Attach Support Ass'y 1 to Curved Left Section using 3/8" x 1" P.B.H.C.S. w/Patch, 3/8" Lock Washer, ans 3/8" Barrel Nut. See Detail 788. **Note:** Support Ass'y 1 attaches to the third mounting pad up from the bottom.
16. Attach Foot Buck to Exit Section with 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, and 3/8" Flatwasher. See Detail 024. **Note:** Check slide exit for proper water drainage before concrete is poured. **Note:** The slope of the exit region shall be between 0 and -10° as measured from a plane parallel to the underlying surface.
17. Use 3/8" x 1" P.B.H.C.S. w/Patch to fill unused support holes in remaining sections. See Detail 789.
18. When the Slide is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from supports to allow drainage. Allow to cure at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

71897 DUELING CRISS-CROSS CASCADE

19. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Also Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

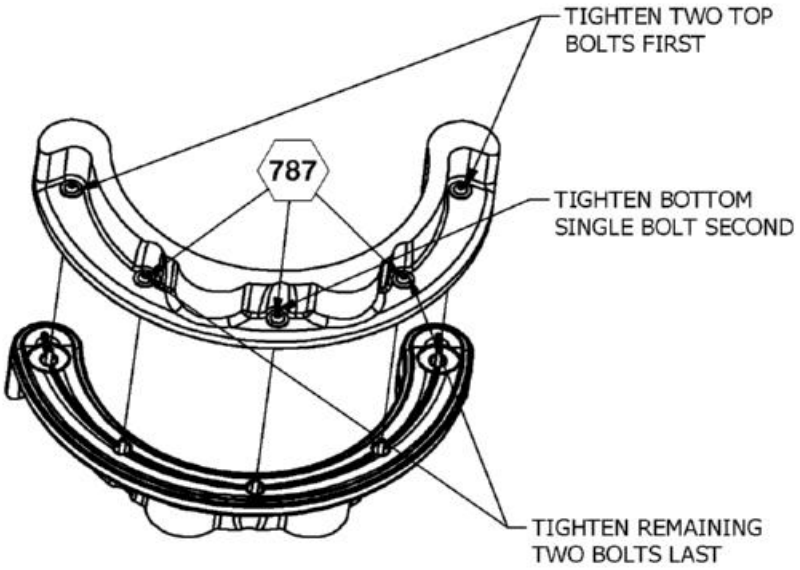


FIGURE #1

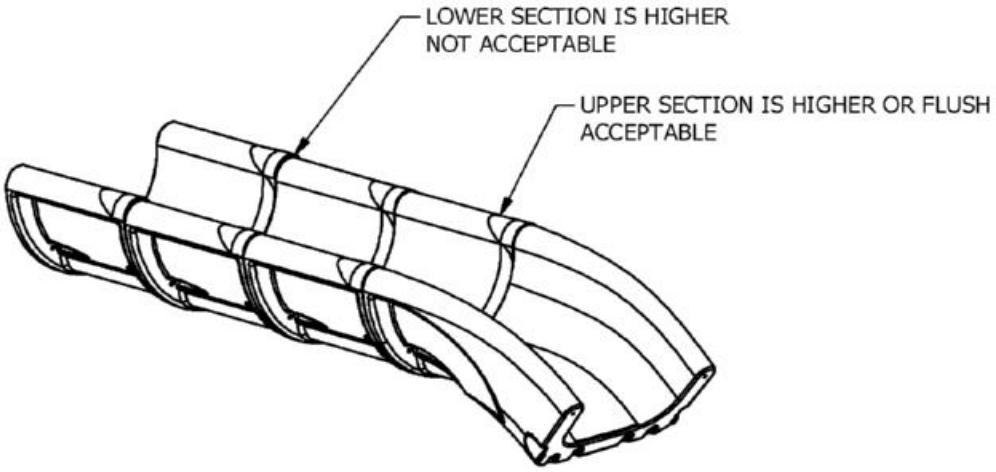
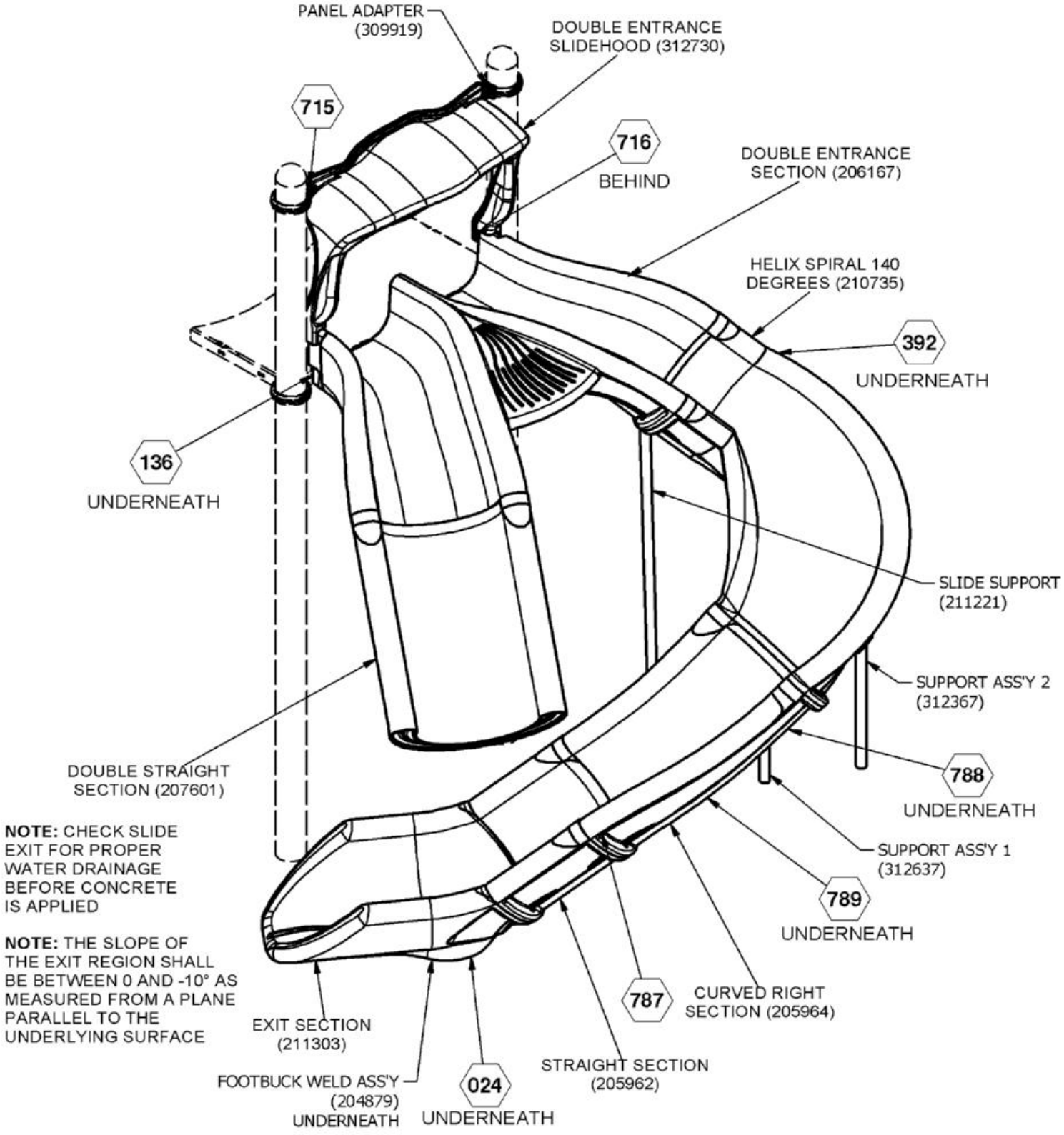


FIGURE #2

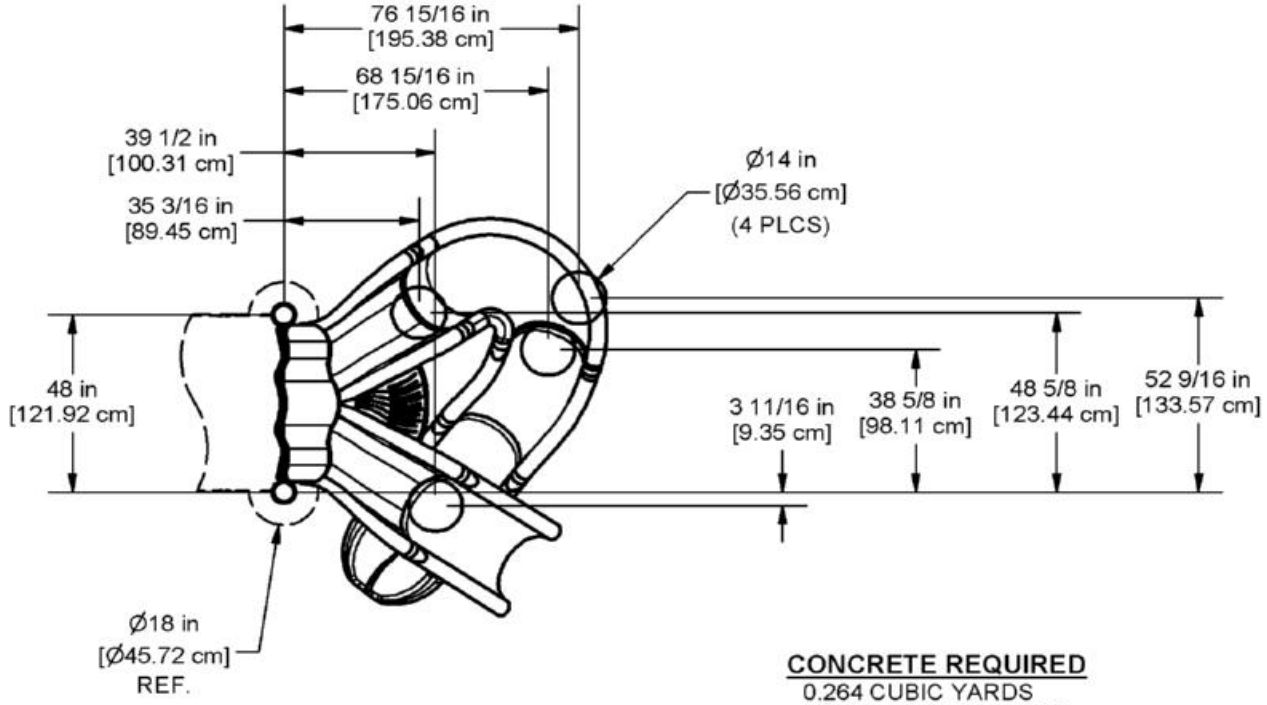
71897 DUELING CRISS-CROSS CASCADE



NOTE: CHECK SLIDE EXIT FOR PROPER WATER DRAINAGE BEFORE CONCRETE IS APPLIED

NOTE: THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -10° AS MEASURED FROM A PLANE PARALLEL TO THE UNDERLYING SURFACE

71897 DUELING CRISS-CROSS CASCADE

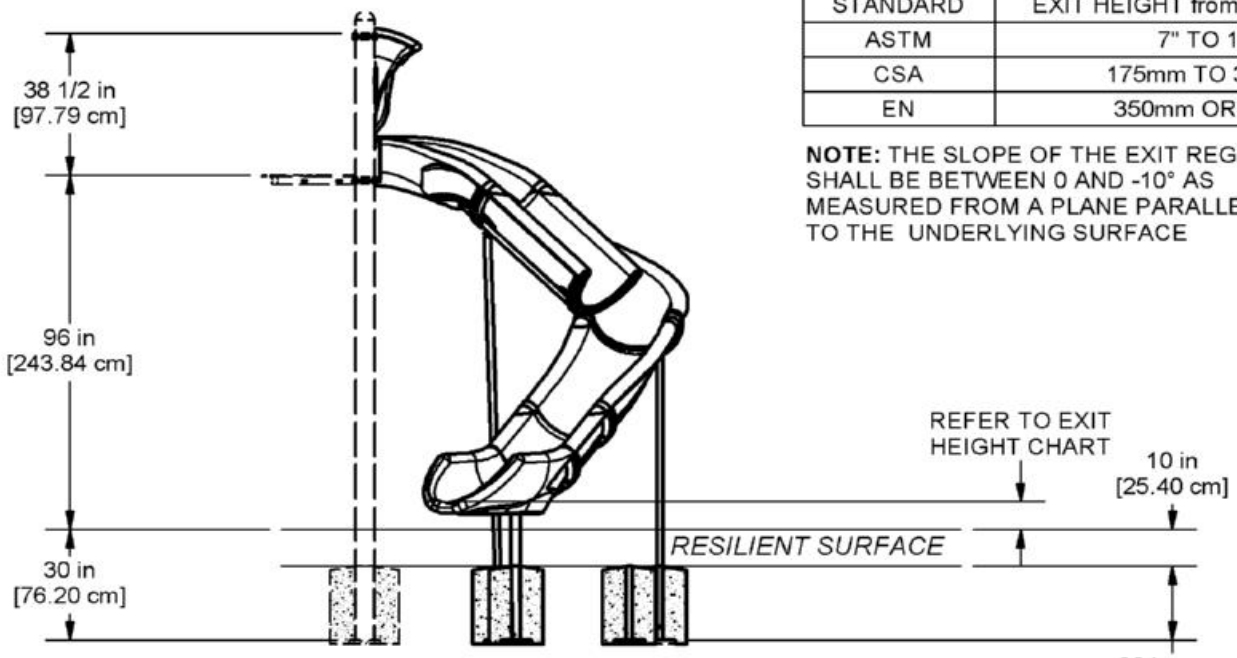


CONCRETE REQUIRED
0.264 CUBIC YARDS
0.200 [CUBIC METERS]

NOTE: BEDWAY MUST NOT EXCEED 50° DOWNWARD ANGLE PER ASTM AND CSA STANDARD.

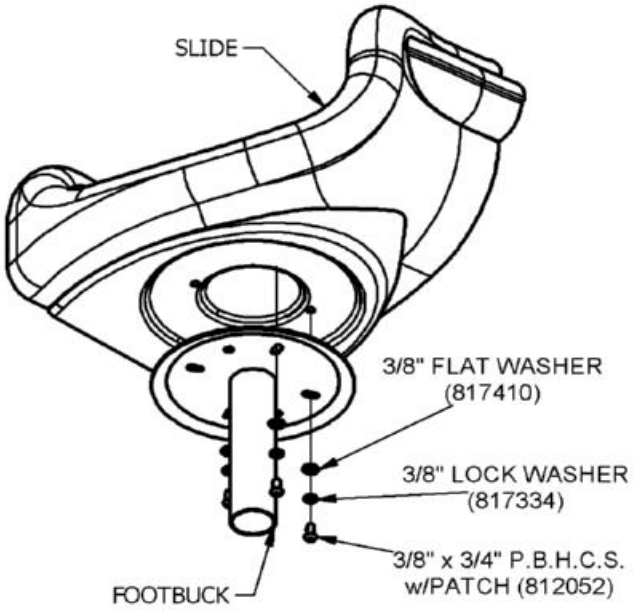
EXIT HEIGHT CHART	
STANDARD	EXIT HEIGHT from SURFACING
ASTM	7" TO 15"
CSA	175mm TO 380mm
EN	350mm OR LESS

NOTE: THE SLOPE OF THE EXIT REGION SHALL BE BETWEEN 0 AND -10° AS MEASURED FROM A PLANE PARALLEL TO THE UNDERLYING SURFACE



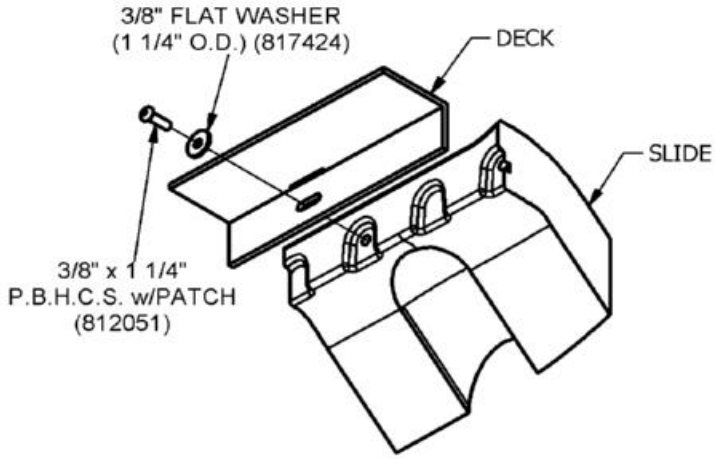
ELEVATION VIEW

71897 DUELING CRISS-CROSS CASCADE

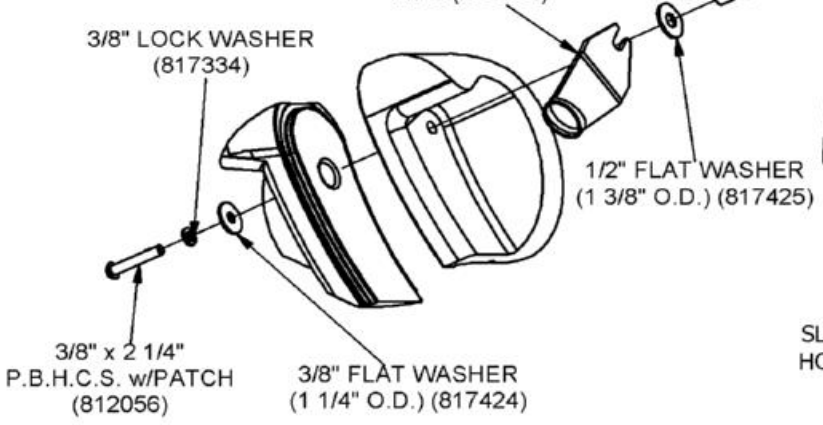


SOME SLIDES WILL ONLY
HAVE TWO BOLTS
PER FOOTBUCK CONNECTION

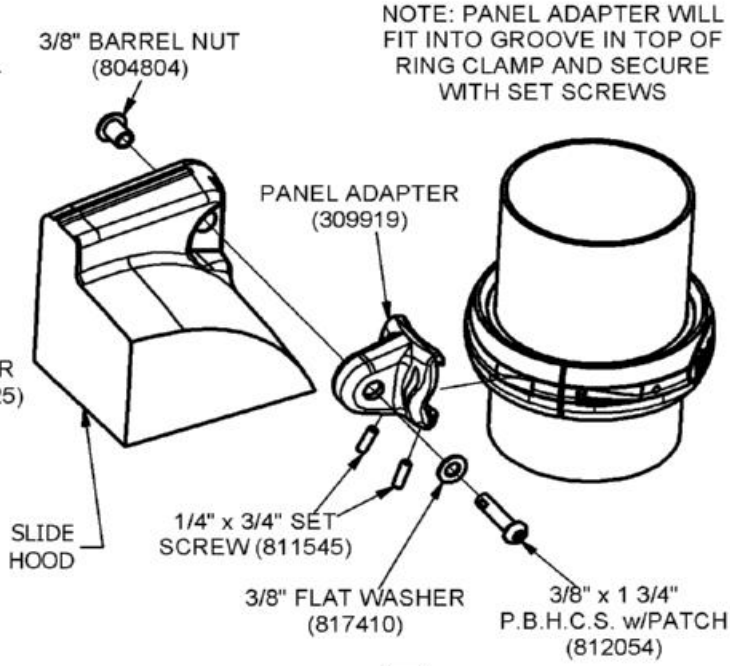
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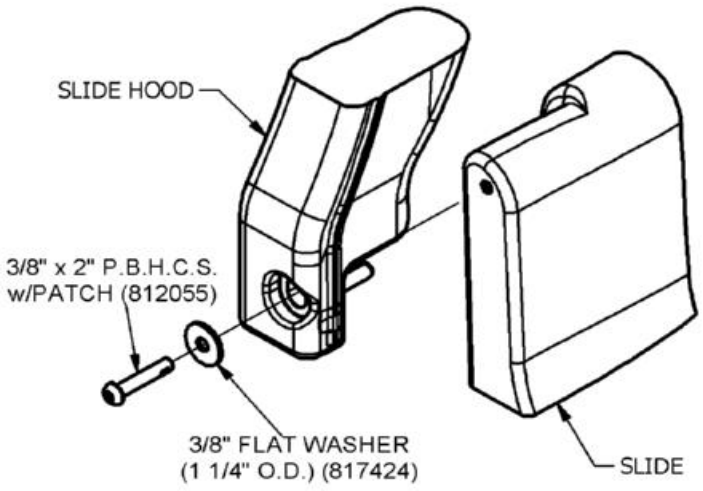


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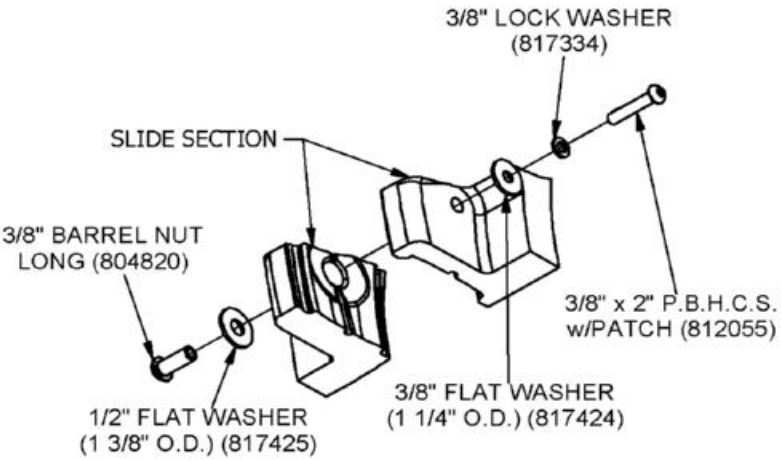


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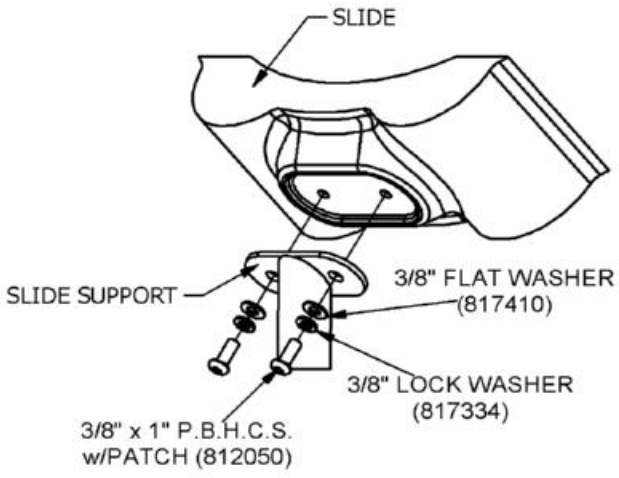
71897 DUELING CRISS-CROSS CASCADE



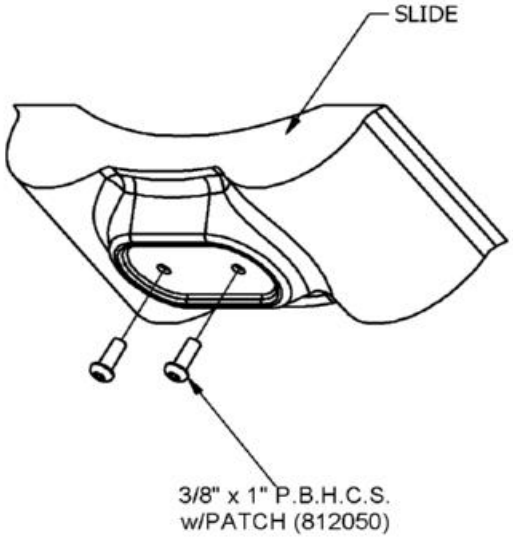
716



787



788



789

71958 RESONANCE CLIMBER

Parts List		
DESCRIPTION	QTY	PART NUMBER
HIGH ARCH WELD ASSEMBLY	1	315543
MIDDLE CONVEYOR BELT	1	315554
8' FOOTHOLD B	5	315555
8' FOOTHOLD A	4	315556
SIDE CLIMBER A RIGHT	1	315560
SIDE CLIMBER C RIGHT	1	315563
SIDE CLIMBER B RIGHT	1	315566
SIDE CLIMBER A LEFT	1	315569
SIDE CLIMBER C LEFT	1	315572
SIDE CLIMBER B LEFT	1	315575
PARALLAX 8' SHORT LADDER CLIMBER	1	315906
ARCH FRAME WELDMENT RIGHT	1	316156
ARCH FRAME WELDMENT LEFT	1	316159
LARGE LADDER RUNG A BENT	1	316161
LARGE LADDER RUNG B BENT	1	316163
LARGE LADDER RUNG C BENT	1	316165
LARGE LADDER RUNG D BENT	1	316167
LARGE LADDER RUNG E BENT	1	316169
HARDWARE COMPLETE	1	315577
3/8" x 3/4" P.B.H.C.S. w/PATCH	18	812052
3/8" x 1" P.B.H.C.S. w/PATCH	13	812050
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	812051
3/8" x 2" P.B.H.C.S. w/PATCH	6	812055
3/8" LOCK WASHER	35	817334
3/8" FLAT WASHER	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	26	817424
3/8" BARREL NUT	35	804804
3/8" ACORN NUT	4	804002

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Resonance Climber, and ensure the correct Parallax Legs have been attached to uprights. Reference order top view.

2. Attach 315906 Parallax 8' Ladder to 315522 High Arch Weld Assembly. See Detail 1079.

3. Attach 315543 High Arch Weld Assembly and 315528 Arch Ladder to Parallax Legs. See Detail 1079.

4. Attach 315422 Connector Casting A to 316159 Arch Frame Weldment Left and 316156 Arch Frame Weldment Right. See Detail 1080. Leave connection loose.

71958 RESONANCE CLIMBER

5. Insert 315537 Arch Frame Weldment Left into 315543 High Arch Weld Assembly socket.

6. Attach Ladder Rungs to 316156 Arch Frame Weldment Right. Leave connection loose. See Detail 1081.

7. Insert 316156 Arch Frame Weldment Right into appropriate 315543 High Arch Weld Assembly socket. Guide Ladder Rungs onto corresponding sockets on 316159 Arch Frame Weldment Left simultaneously. Attach Ladder rungs to 315543 Arch Frame Weldment Left. See Detail 1081.

8. Attach 315554 Middle Conveyor Belt to Parallax Legs. See Detail 1082.

9. Attach HDPE Footholds to 315554 Middle Conveyor Belt. See Detail 1083.

10. Attach Side Climber Weldments to Parallax Legs. See Detail 1084 and Detail 1174. Refer to assembly view for locations.

11. Plug open holes in Parallax Legs. See Detail 1089.

12. Plumb and level the entire assembly and tighten all fasteners.

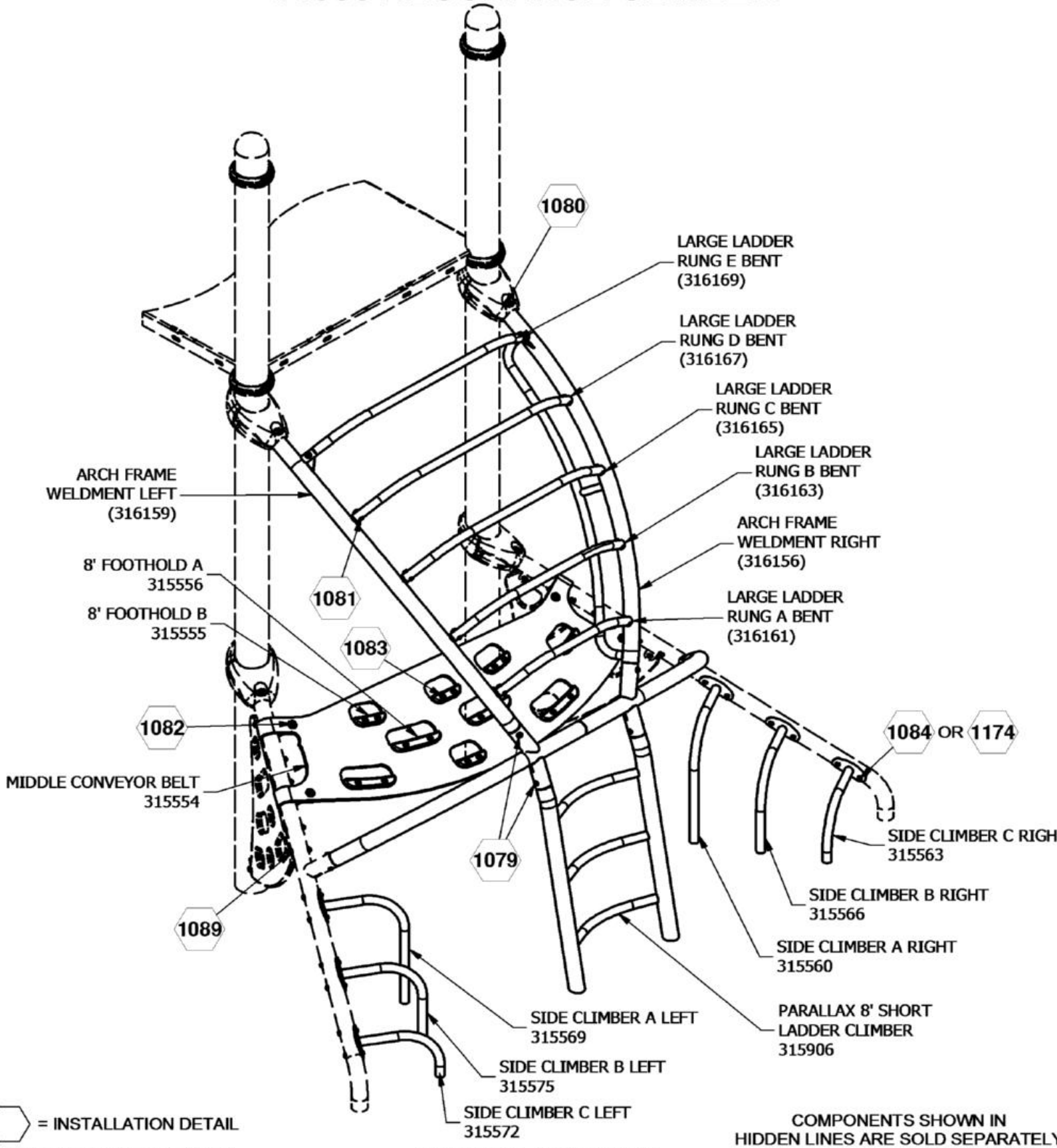
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

13. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71958 RESONANCE CLIMBER



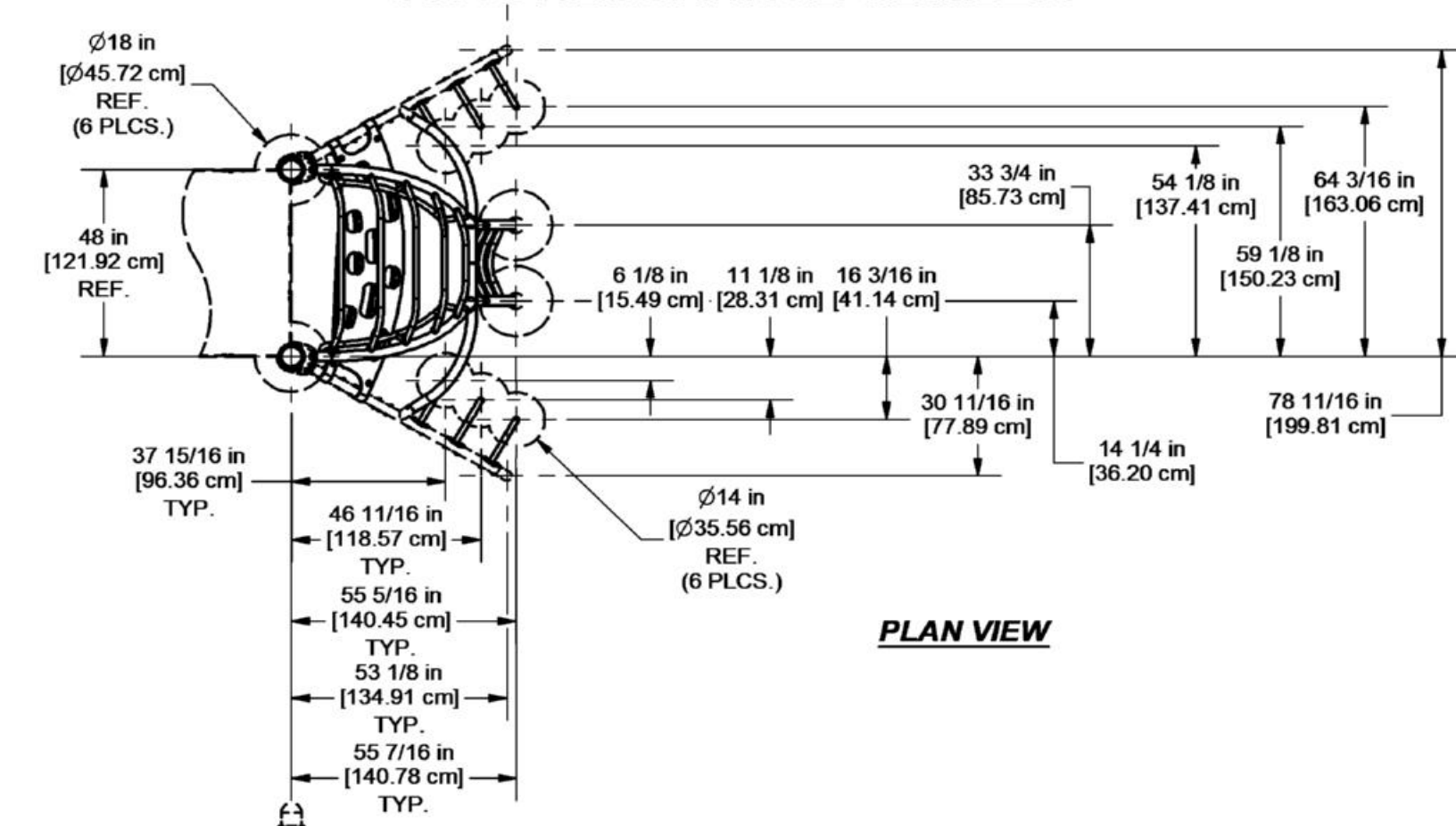
= INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

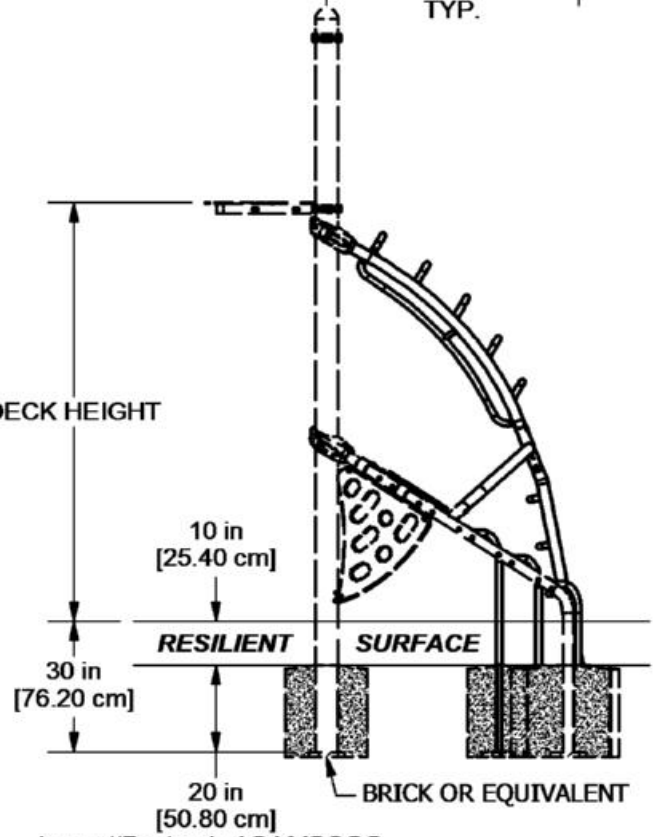
Issued/Revised: 10/4/2022

FINISHED ASSEMBLY

71958 RESONANCE CLIMBER



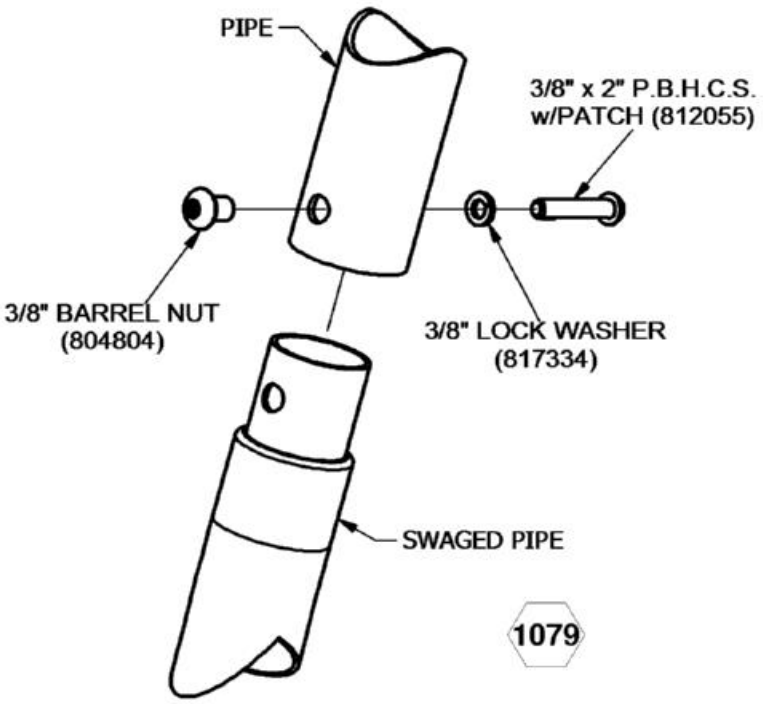
PLAN VIEW

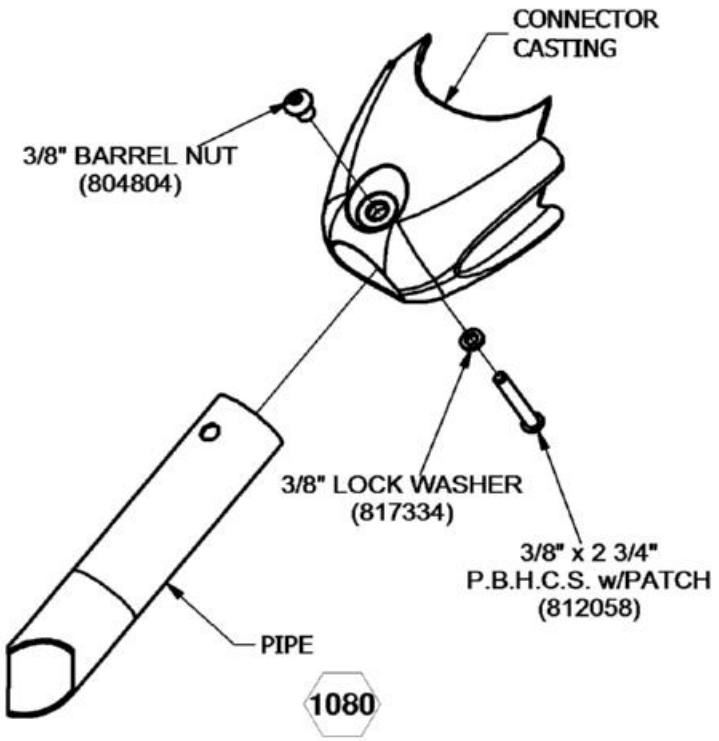


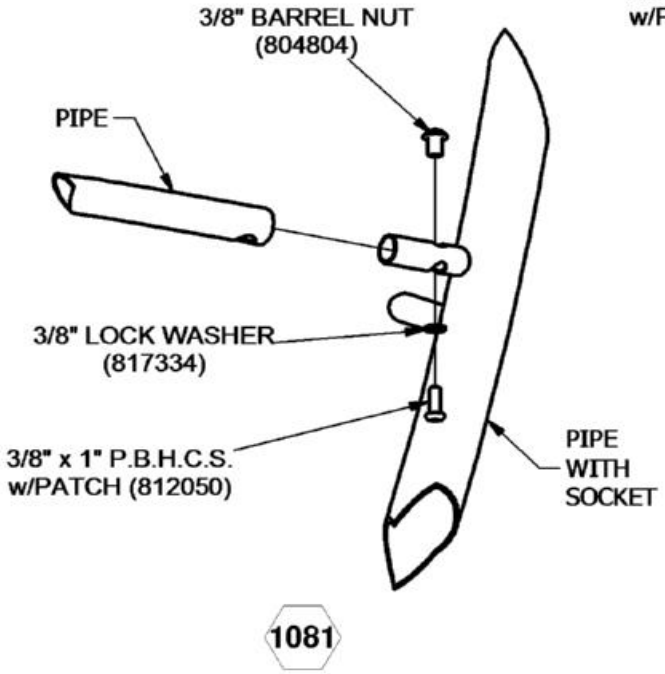
ELEVATION VIEW

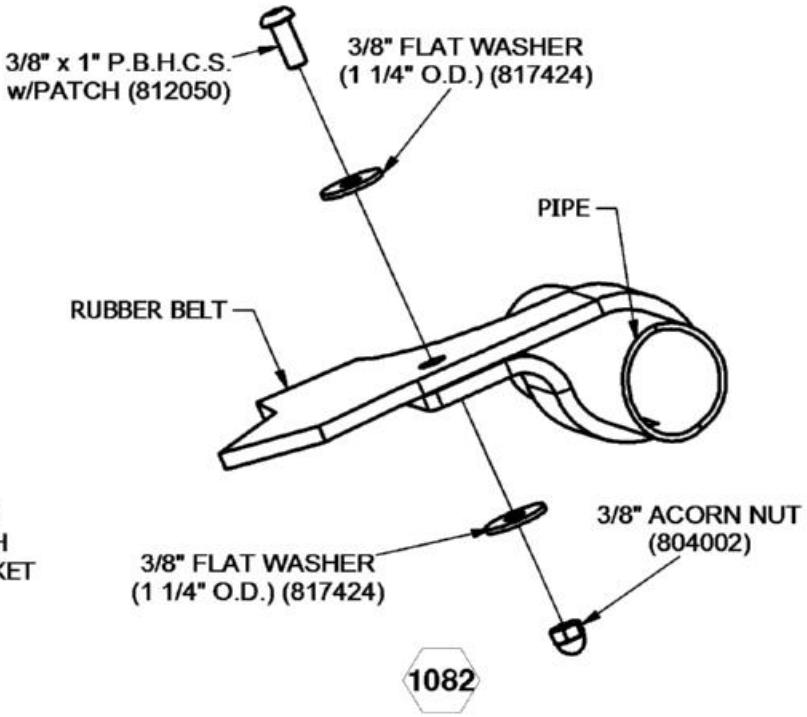
Issued/Revised: 10/4/2022

71958 RESONANCE CLIMBER

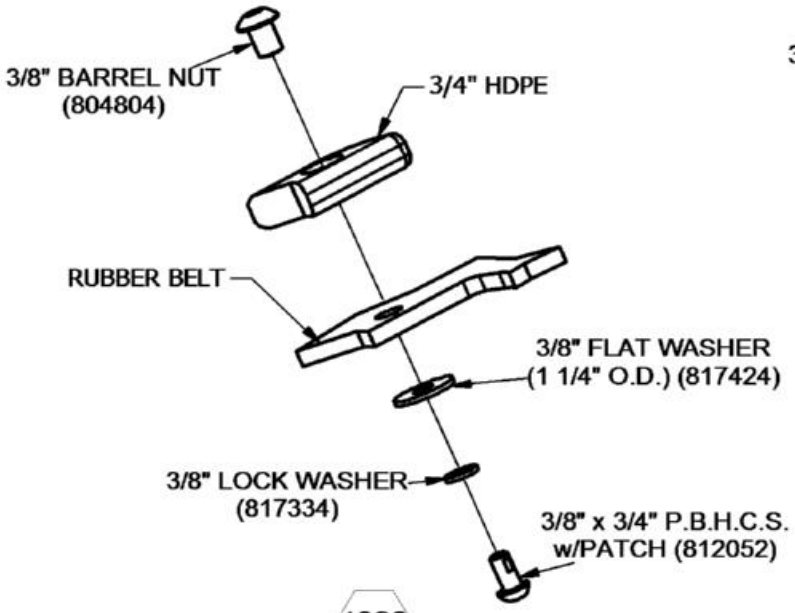




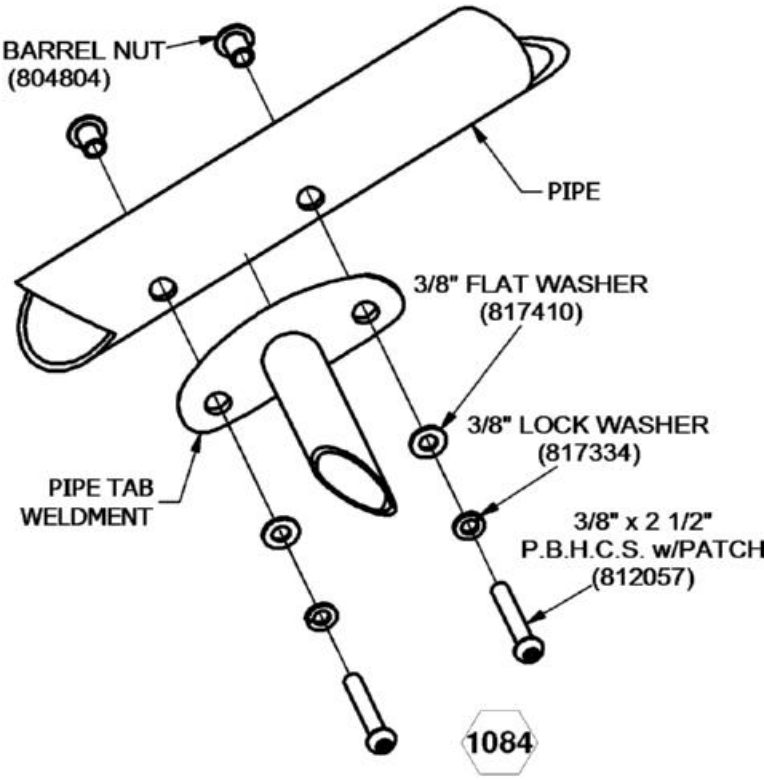




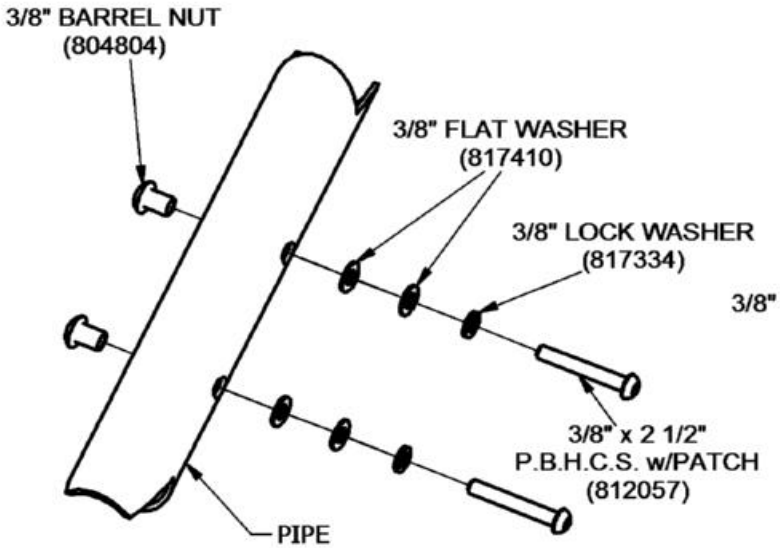
71958 RESONANCE CLIMBER



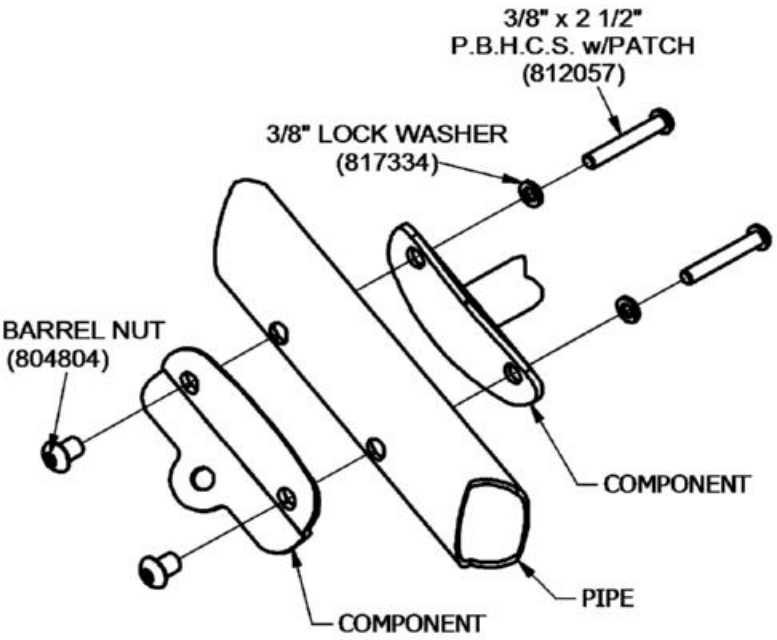
1083



1084



1089



1174

Issued/Revised: 10/4/2022

This equipment is designed for children 2-5 or 5-12 years old

71968 SHOP PANEL

Parts List		
DESCRIPTION	QTY	PART NUMBER
90° ANGLE BRACKET	4	302334
PANEL ADAPTER	2	309919
SMASHED FOOTBUCK	2	314295
SHOP PANEL	1	315519
ORGANIC COUNTER PANEL	1	315520
HARDWARE COMPLETE	1	315521
1/4" x 3/4" SET SCREW	4	811545
3/8" x 3/4" CARRIAGE BOLT	8	800252
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053
3/8" FLAT WASHER	4	817410
3/8" BARREL NUT	12	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck to to receive the Shop Panel. Refer to your overhead drawing for location.
2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.
3. Hook the Panel Adapters onto the Ring Clamps and attach. See Detail 467.
4. Attach the Organic Counter Panel to the Shop Panel. See Detail 519.
5. Attach Footbucks to Shop Panel. Flat side of Smashed Footbuck should face the inside of the Shop Panel. See Detail 631.
6. Connect Shop Panel to Panel Adapters. See Detail 467.
7. When the entire assembly in plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure for at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3-1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

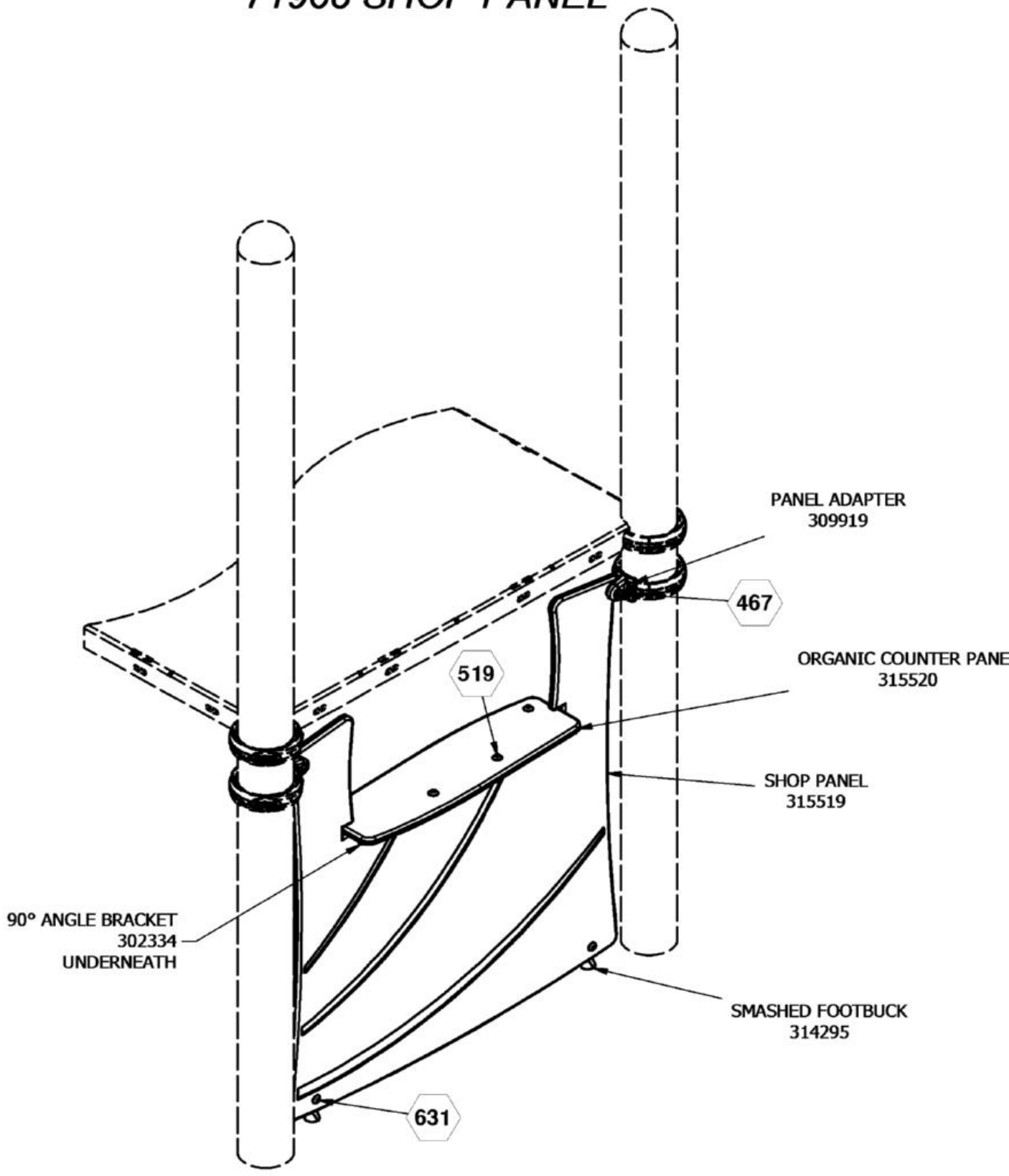
8. When the structure is finished and satisfied, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Install resilient surfacing material within the use zone (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

71968 SHOP PANEL



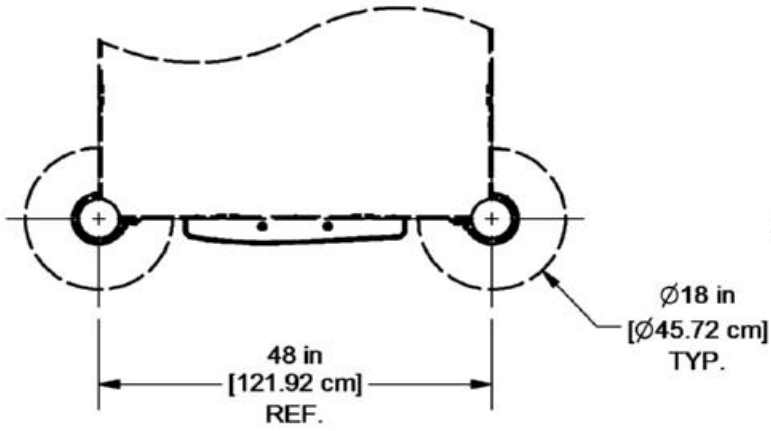
⬡ = INSTALLATION DETAIL

Issued/Revised: 2/15/2021

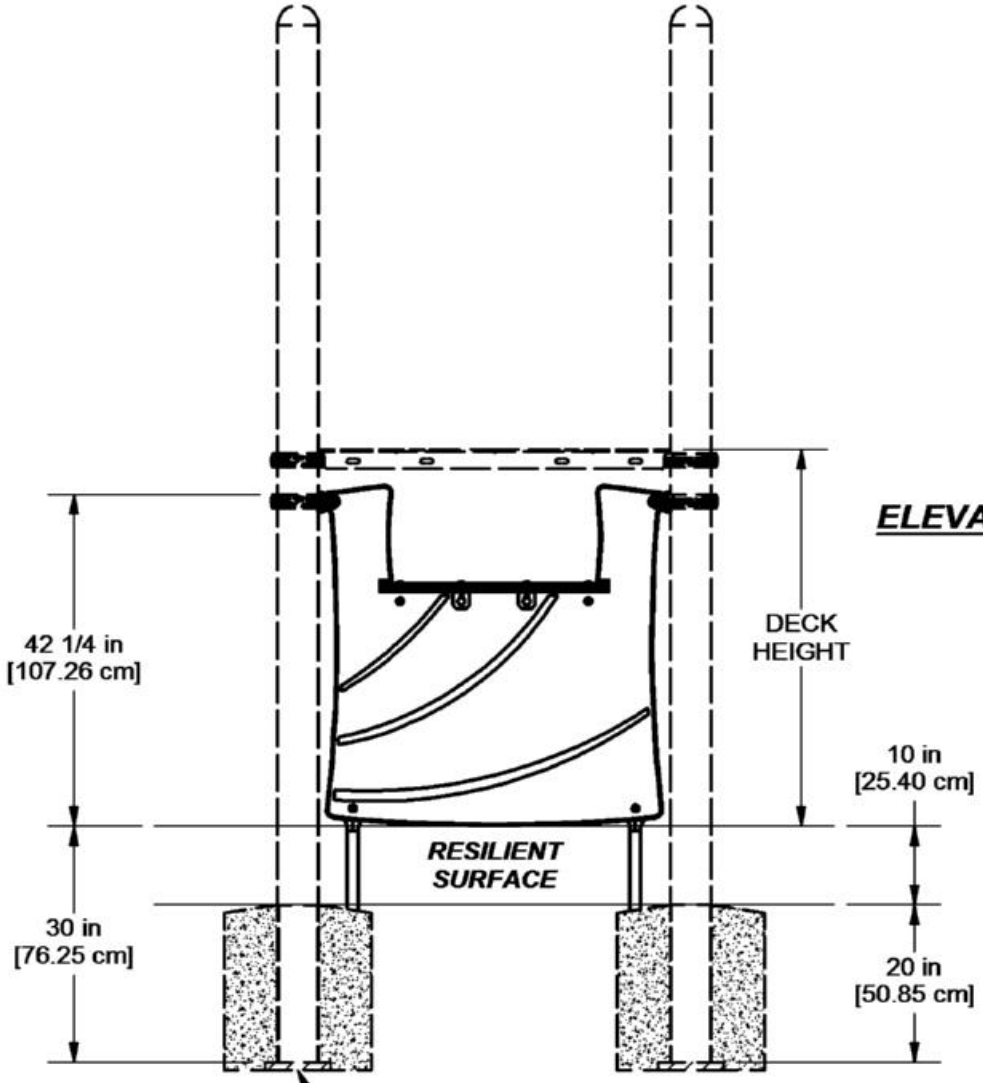
FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

71968 SHOP PANEL



PLAN VIEW

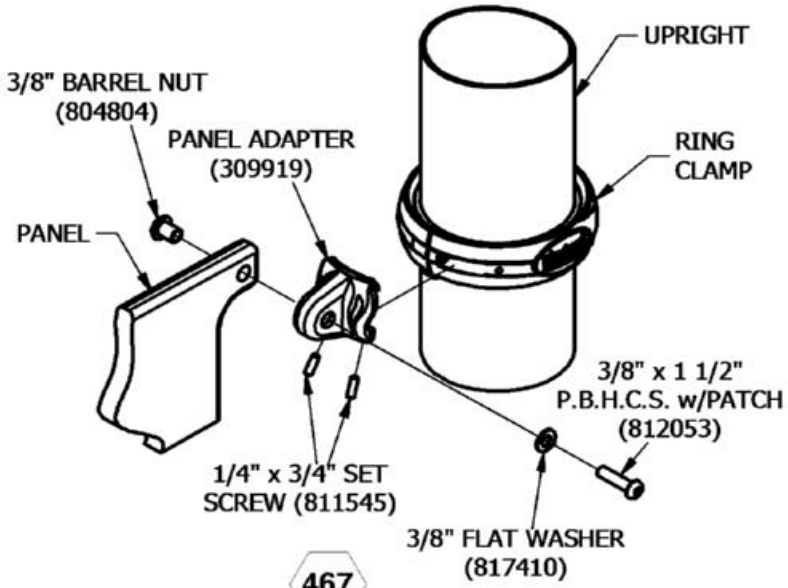


ELEVATION VIEW

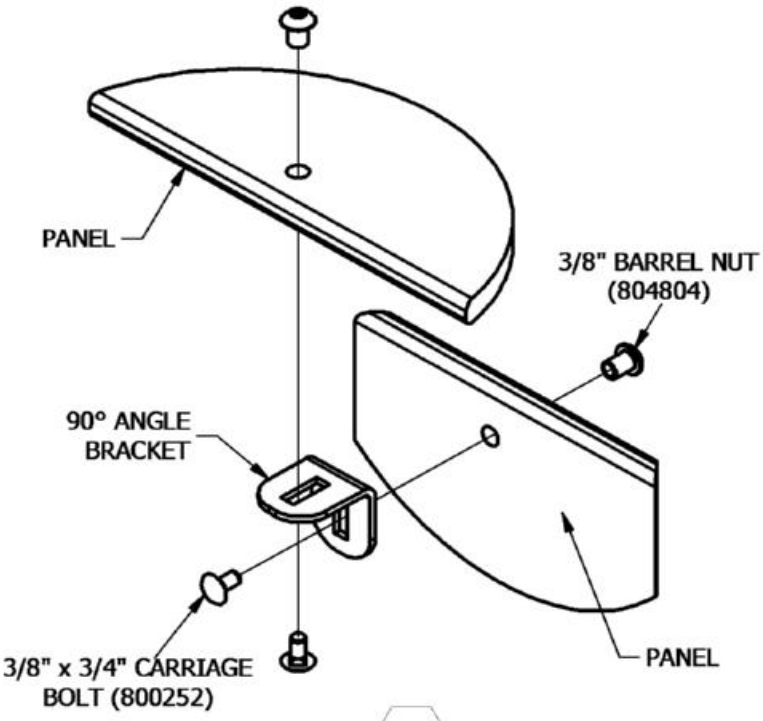
71968 SHOP PANEL

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

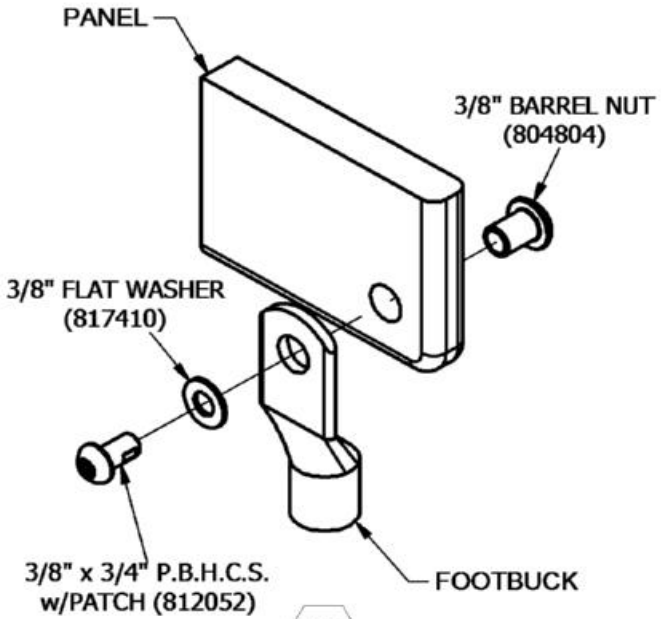
PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



467



519



631

Issued/Revised: 2/15/2021

This equipment is designed for children 2-5 or 5-12 years old

71969 PARALLAX LEG A

Parts List		
DESCRIPTION	QTY	PART NUMBER
PANEL ADAPTER	1	309919
PARALLAX LEG A	1	315580
SIDE HDPE	1	315584
HARDWARE COMPLETE	1	315585
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	1	812053
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	10	812057
3/8" FLAT WASHER	23	817410
3/8" LOCK WASHER	10	817334
3/8" BARREL NUT	13	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*
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Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Parallax Leg A. Refer to Order Top View.
2. Attach 315580 Parallax Leg A to 71992 Single Parallax Casting. See Detail 1080. Refer to Order Top View for casting locations.
3. Attach 309919 Panel Adapter to Ring Clamp. See Detail 467. Refer to Assembly View for Clamp height.
4. Attach 315584 Side HDPE to 315580 Parallax Leg. See Detail 602 and Detail 467.
5. Attach required climbing elements. See Detail 1084 and Detail 1174. Refer to included Parallax Climber Installation sheets for placement and orientation.
6. Reference order top view and included Parallax Climber installation sheets. If no climbing element attaches to a set of Parallax Leg holes, plug open holes. See Detail 1089.
7. Plumb and level the entire assembly and tighten all fasteners.

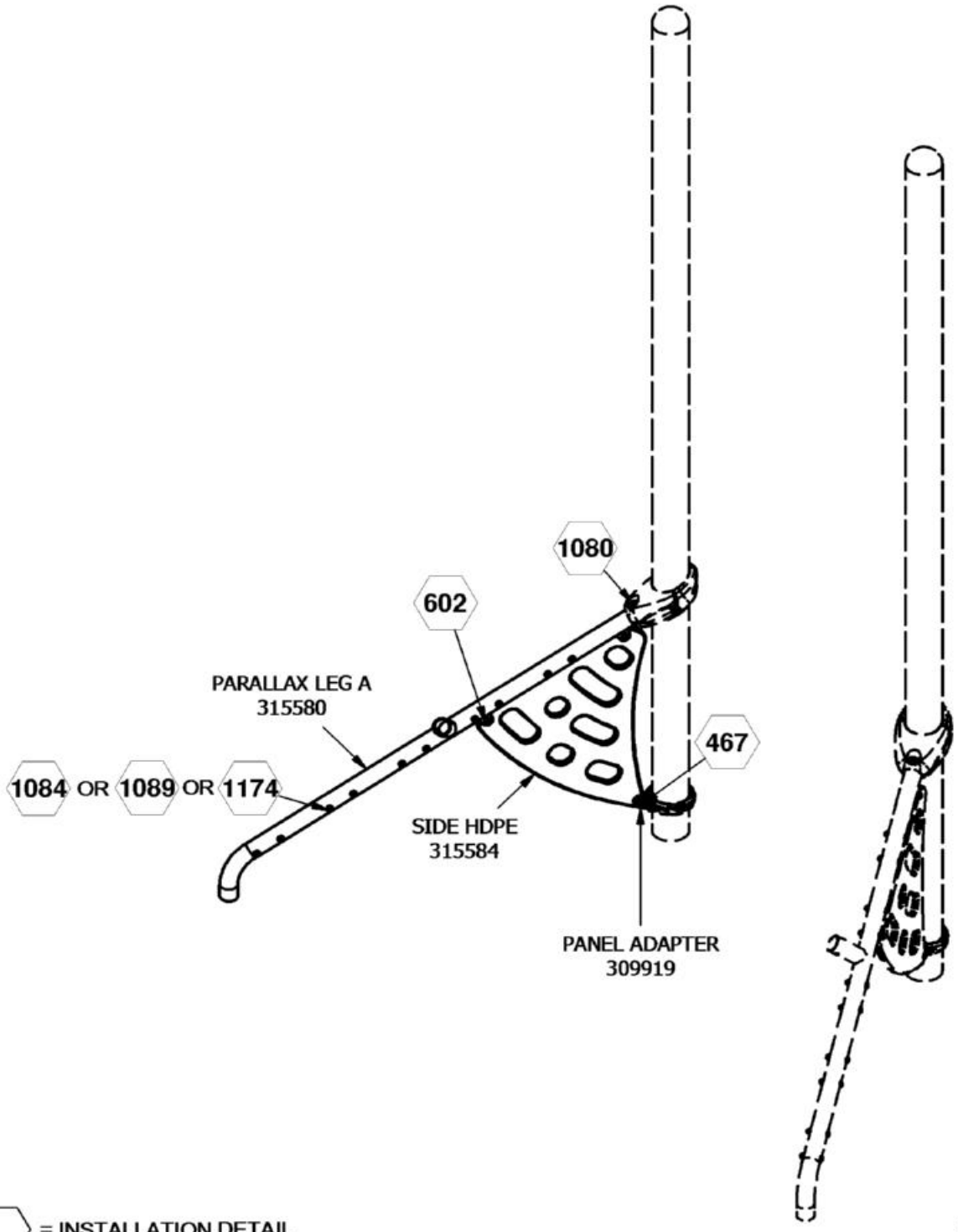
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

8. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

71969 PARALLAX LEG A

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



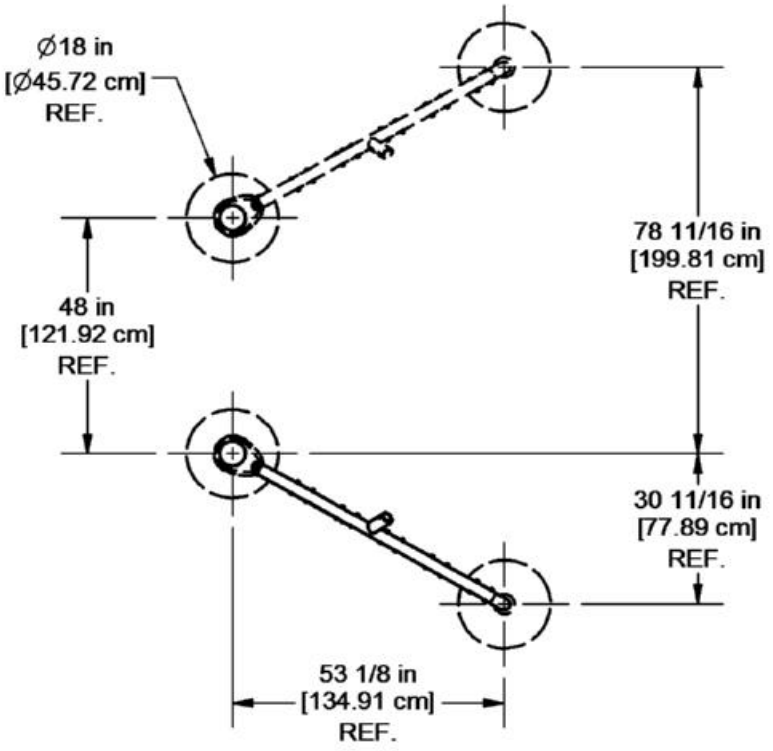
⬡ = INSTALLATION DETAIL

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

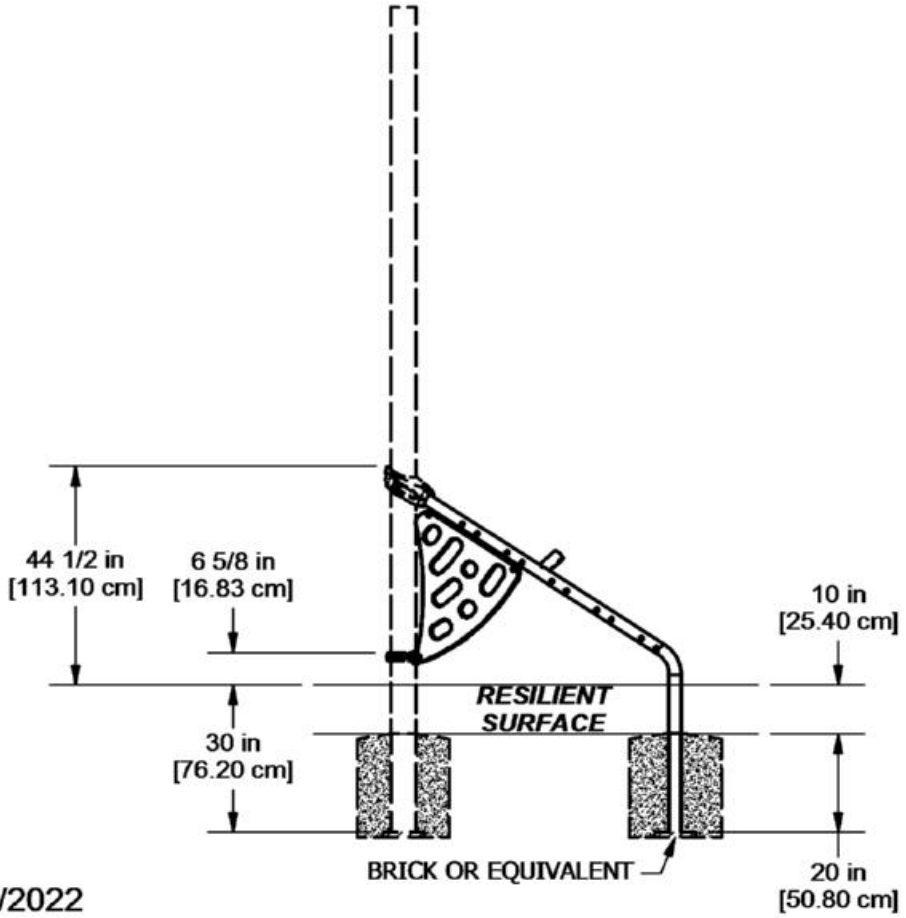
Issued/Revised: 10/6/2022

FINISHED ASSEMBLY

71969 PARALLAX LEG A



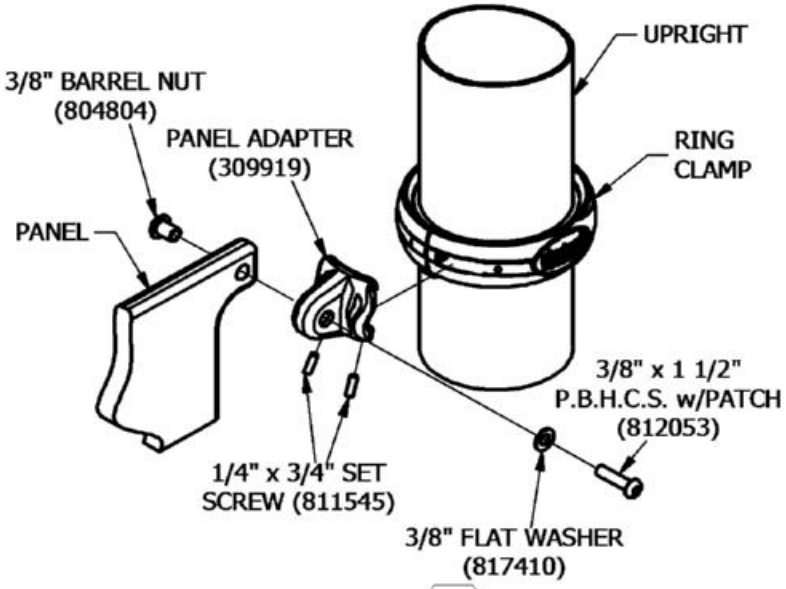
PLAN VIEW



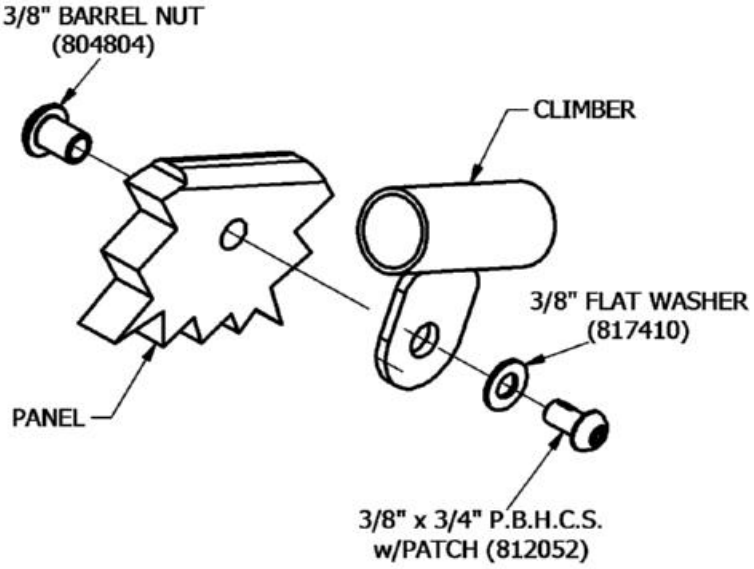
ELEVATION VIEW

71969 PARALLAX LEG A

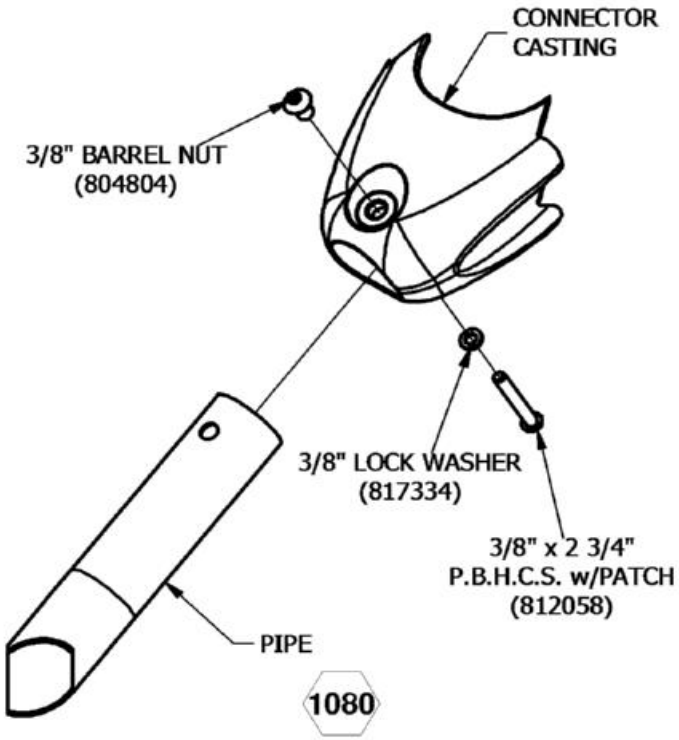
NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.



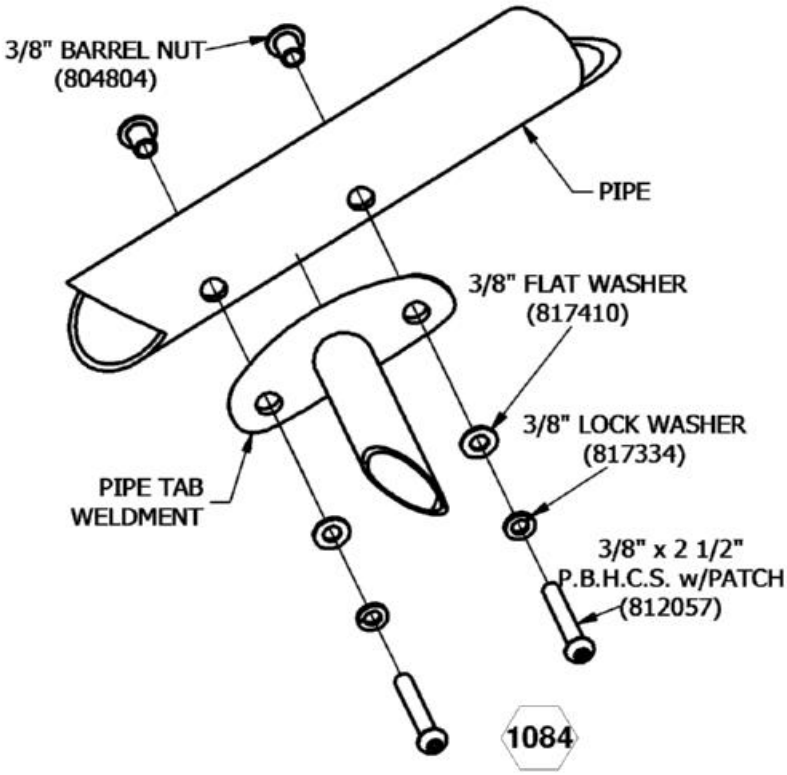
467



602

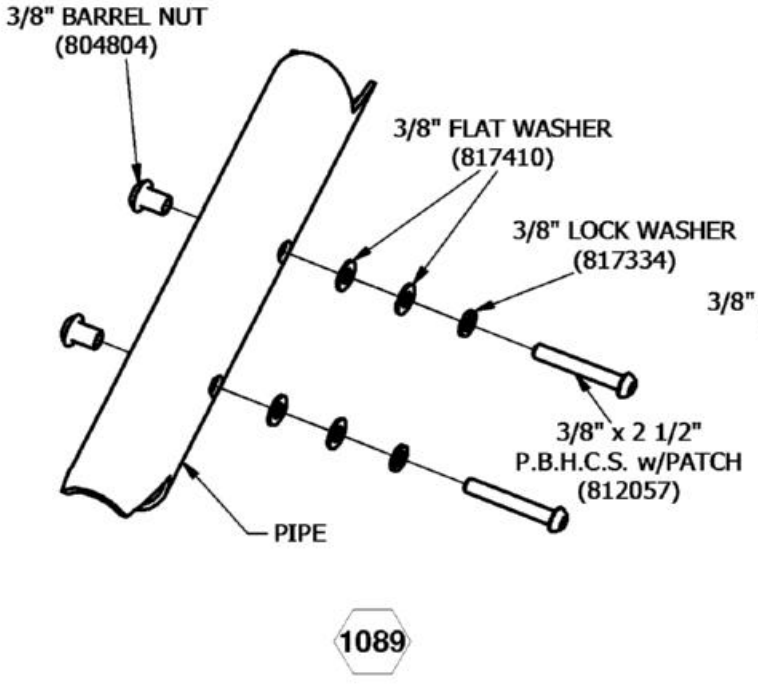


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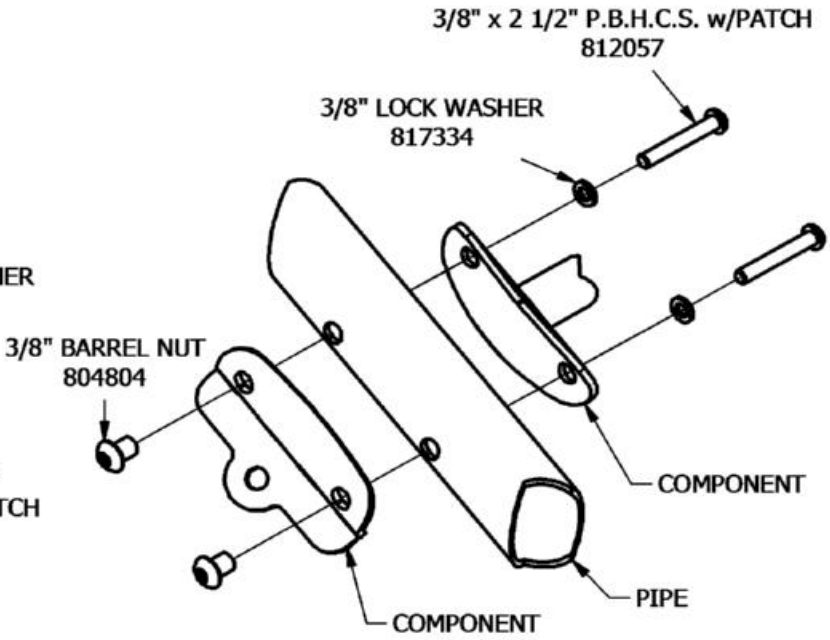


1084

71969 PARALLAX LEG A



1089



1174

71970 PARALLAX LEG B

Parts List		
DESCRIPTION	QTY	PART NUMBER
PANEL ADAPTER	1	309919
PARALLAX LEG B	1	315583
SIDE HDPE	1	315584
HARDWARE COMPLETE	1	315585
3/8" x 3/4" P.B.H.C.S. w/PATCH	2	812052
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	1	812053
3/8" x 2 1/2" P.B.H.C.S. w/PATCH	10	812057
3/8" FLAT WASHER	23	817410
3/8" LOCK WASHER	10	817334
3/8" BARREL NUT	13	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Parallax Leg B. Refer to Order Top View.
2. Attach 315583 Parallax Leg B to 71992 Single Parallax Casting. See Detail 1080. Refer to Order Top View for casting locations.
3. Attach 309919 Panel Adapter to Ring Clamp. See Detail 467. Refer to Assembly View for Clamp height.
4. Attach 315584 Side HDPE to 315583 Parallax Leg B. See Detail 602 and Detail 467.
5. Attach required climbing elements. See Detail 1084 and Detail 1174. Refer to included Parallax Climber Installation sheets for placement and orientation.
6. Reference order top view and included Parallax Climber installation sheets. If no climbing element attaches to a set of Parallax Leg holes, plug open holes. See Detail 1089.
7. Plumb and level the entire assembly and tighten all fasteners.

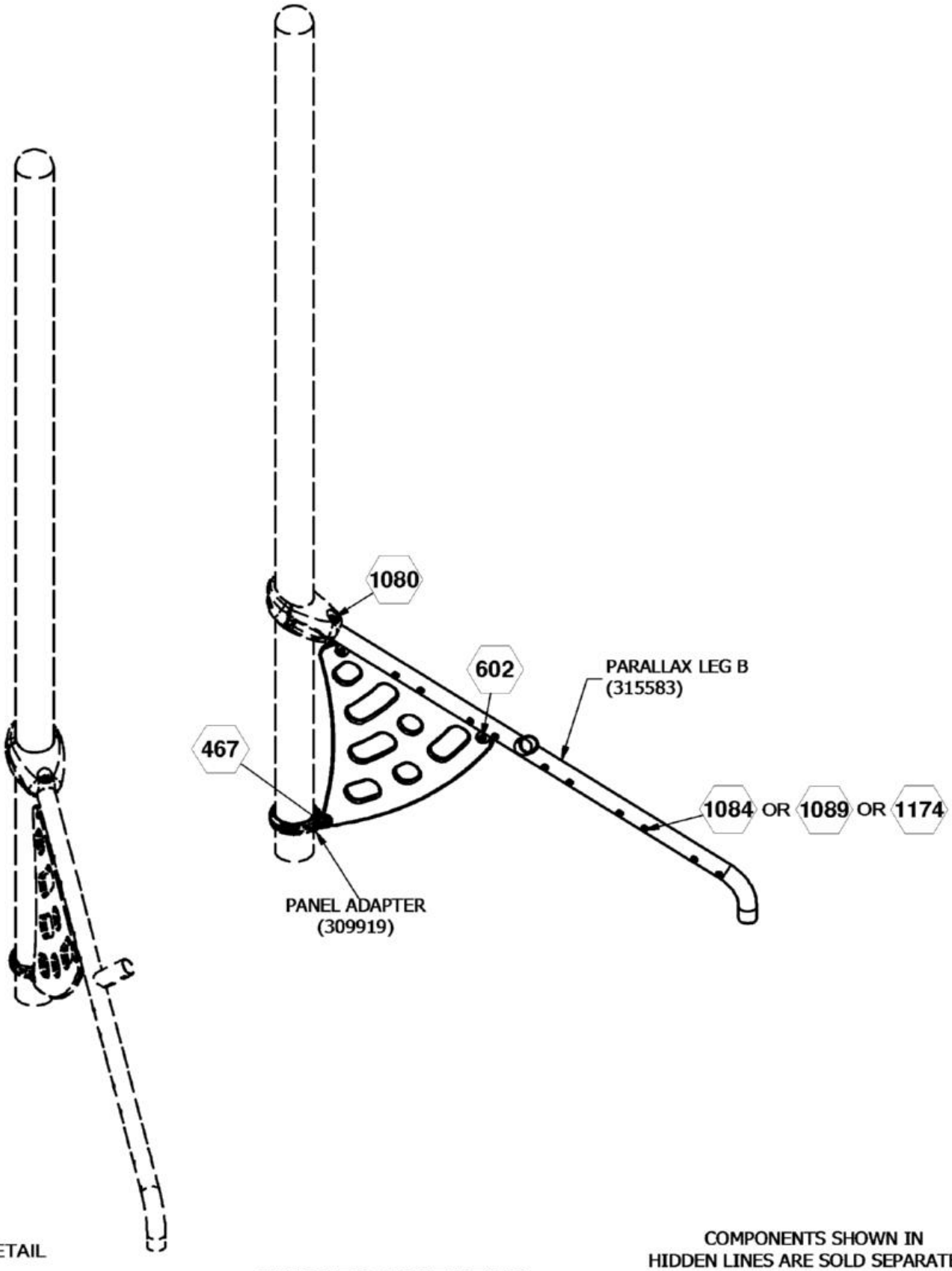
IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

8. When structure is finished and satisfactory, tighten all fasteners and install Drive Rivets in all the clamps to ensure clamps cannot slide down posts. See Pipe Clamp sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of eqiupment, as clamps are not designed to support substantial weight without them.*** Also eliminate sharp points and sharp edges (burring) on installated hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of the play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71970 PARALLAX LEG B



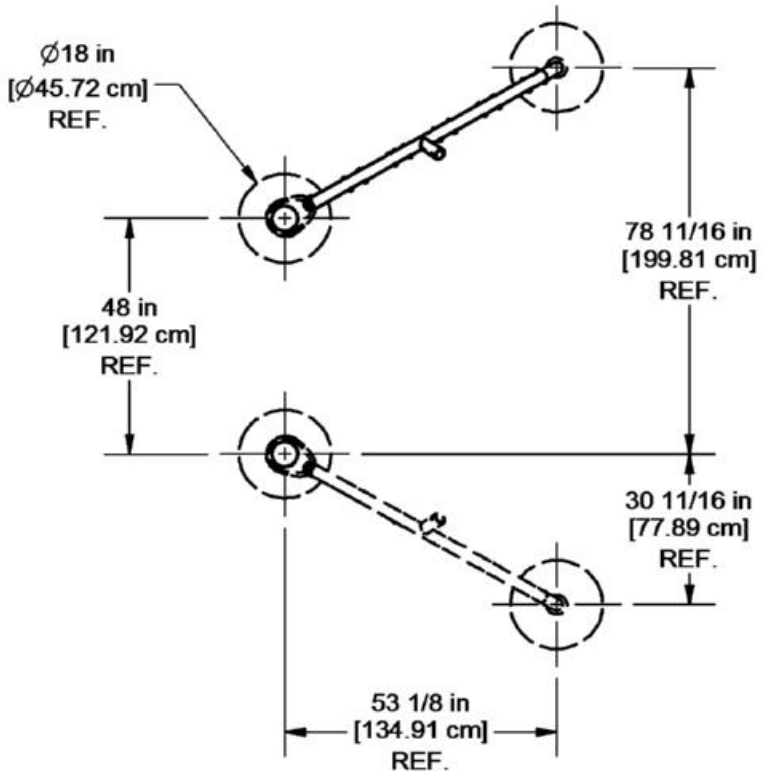
= INSTALLATION DETAIL

Issued/Revised: 10/6/2022

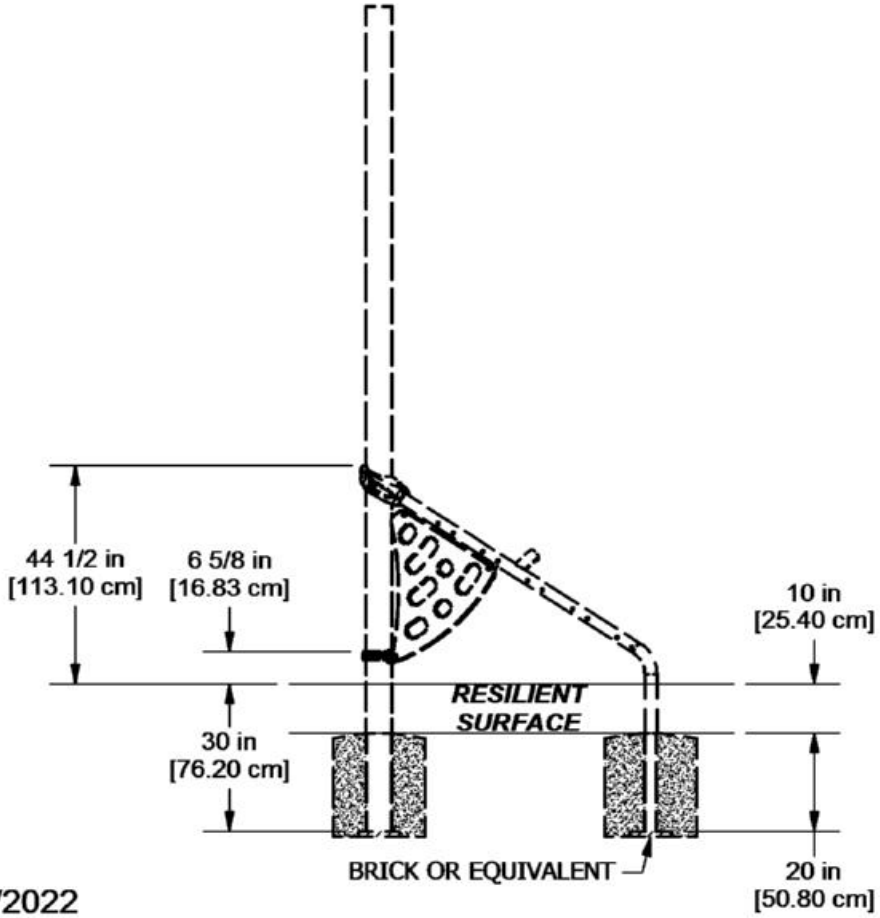
FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

71970 PARALLAX LEG B



PLAN VIEW

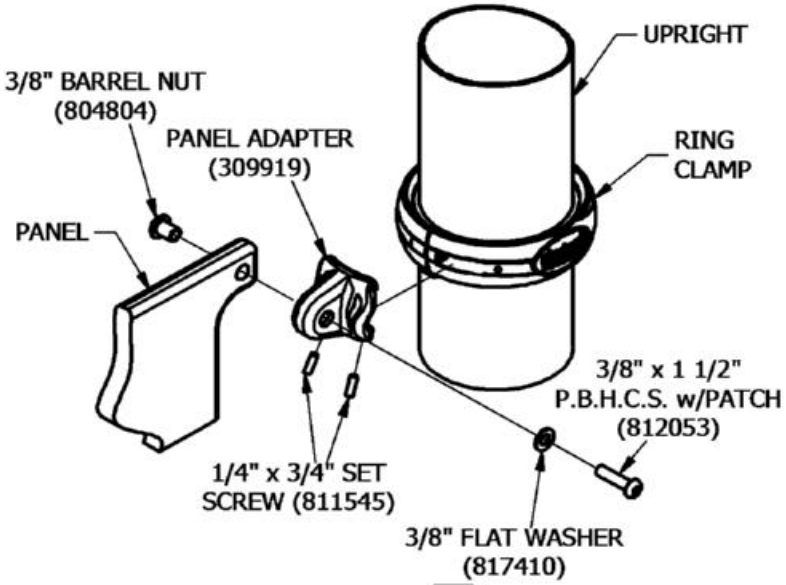


ELEVATION VIEW

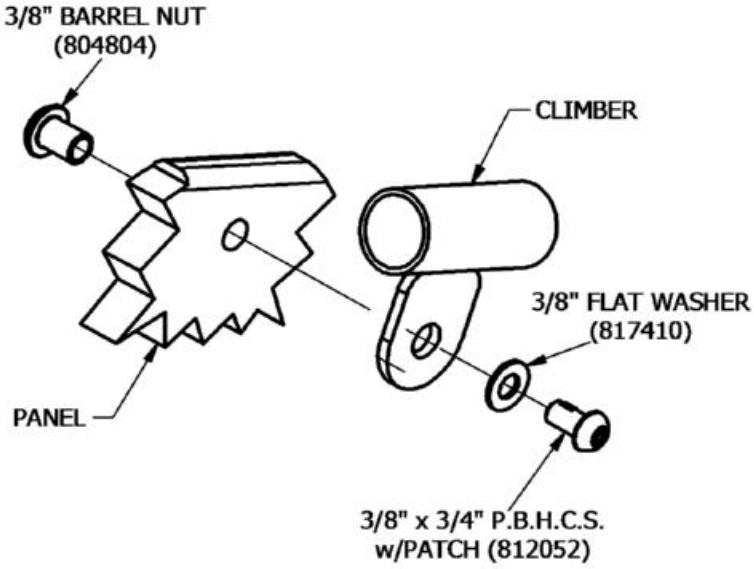
71970 PARALLAX LEG B

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

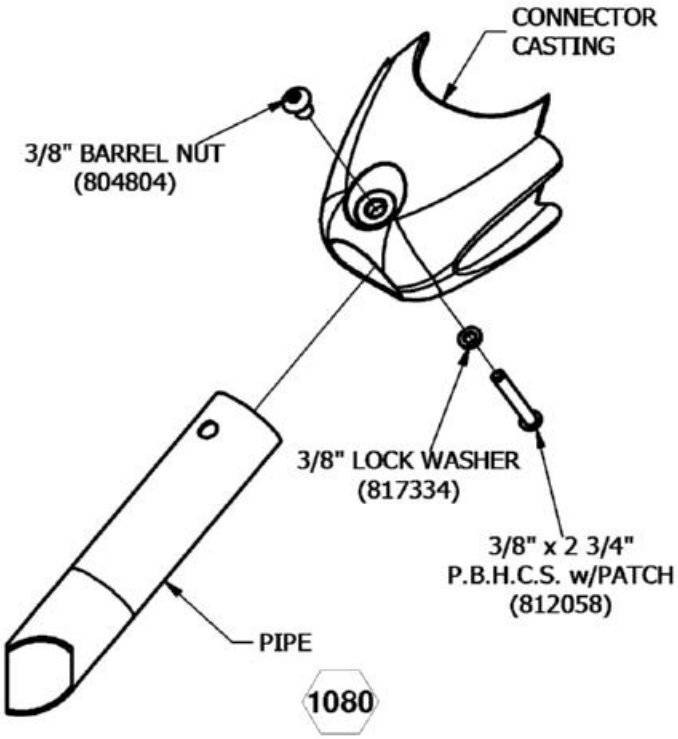
PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



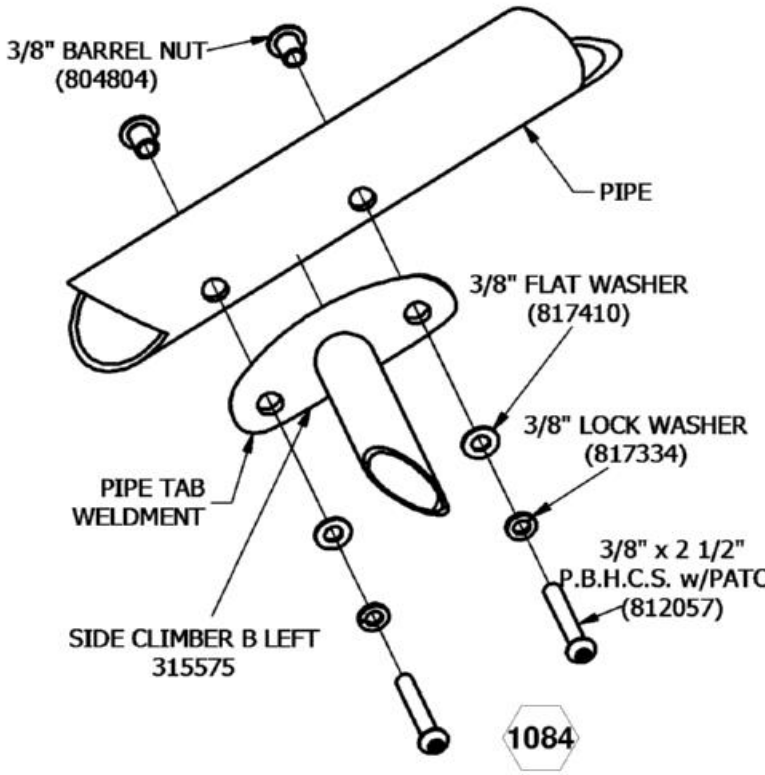
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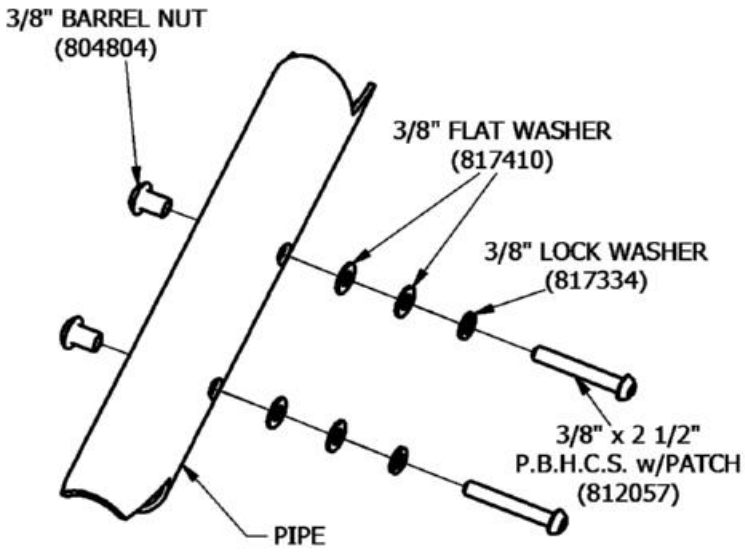


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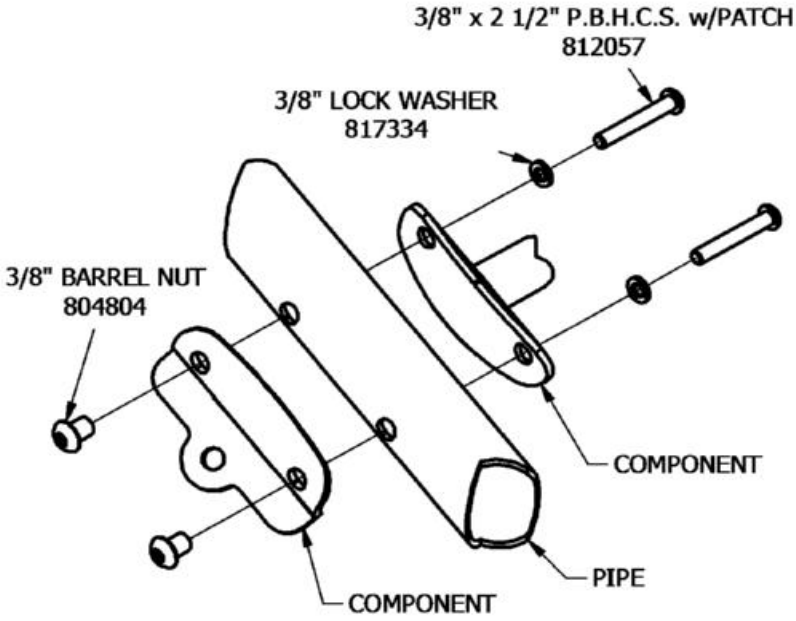


1084

71970 PARALLAX LEG B



1089



1174

71992 SINGLE PARALLAX CASTING

Parts List		
DESCRIPTION	QTY	PART NUMBER
CONNECTOR CASTING A	1	315744
CONNECTOR CASTING B	1	315745
HARDWARE COMPLETE	1	315742
1/4" x 1" DRIVE RIVET	1	805302
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	2	812053
3/8" x 2 3/4" P.B.H.C.S. w/PATCH	1	812058
3/8" FLAT WASHER	2	817410
3/8" LOCK WASHER	3	817334
3/8" BARREL NUT	1	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine location of Single Parallax Casting. Refer to Order Top View for locations.

2. Attach Single Parallax Casting to upright. See Detail 1090.

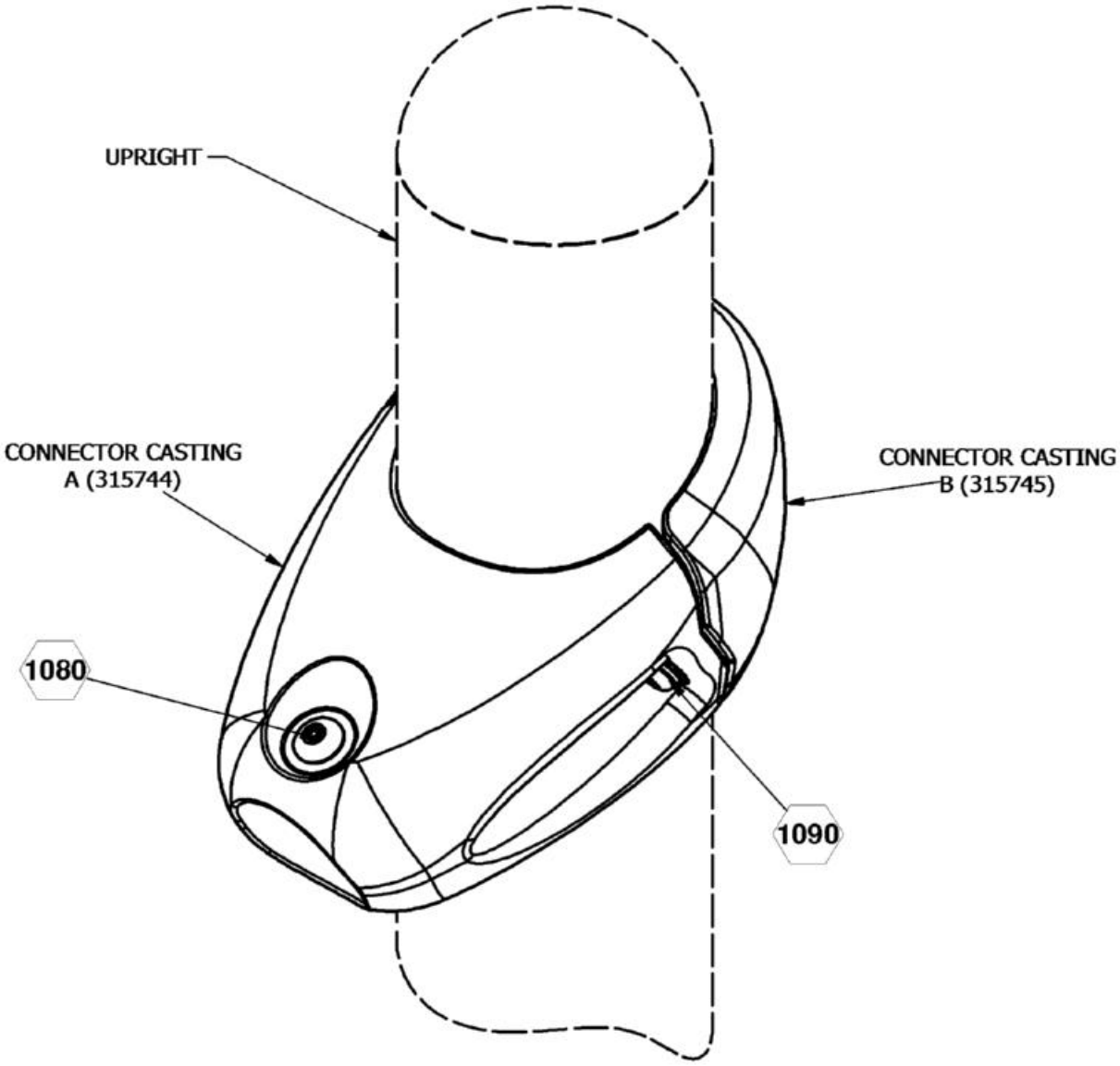
3. Attach required Parallax Leg or climbing element to Single Parallax Casting. See Detail 1080.

4. Plumb and level the entire assembly and tighten all fasteners.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

71992 SINGLE PARALLAX CASTING



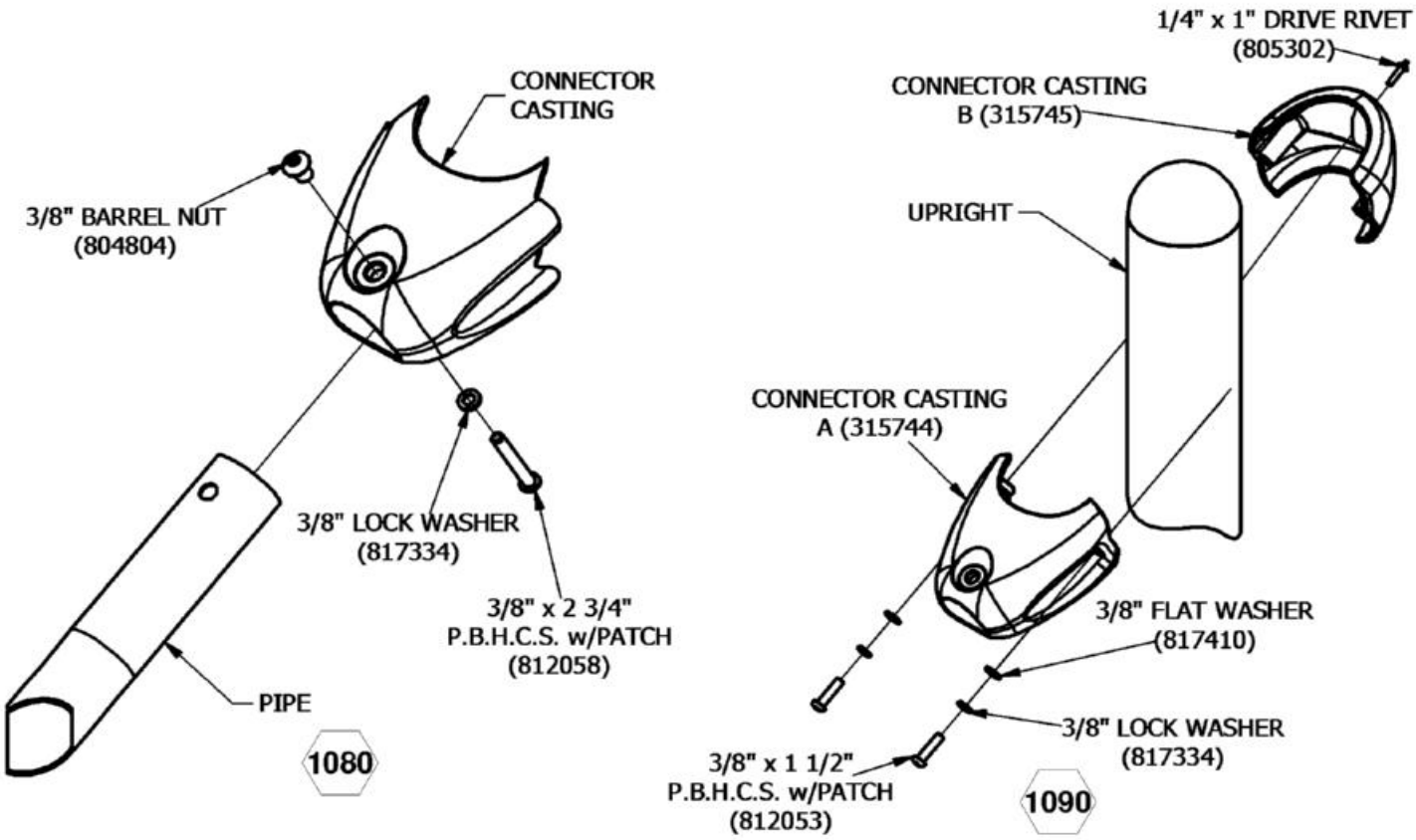
= INSTALLATION DETAIL

Issued/Revised: 6/8/2021

FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

71992 SINGLE PARALLAX CASTING



72037 SPROUT CLIMBER (2'-8"); 72006 (3'-4"); 72007 (4'-0"); 72008 (4'-8"); 72009 (5'-4"); 72010 (6'-0"); 72011 (6'-8"); 72012 (7'-4"); 72013 (8'-0"); 72204 (9'-0")

Parts List											
DESCRIPTION	72037	72006	72007	72008	72009	72010	72011	72012	72013	72204	PART NUMBER
2'-8" SPROUT WELDMENT	1	0	0	0	0	0	0	0	0	0	316124
3'-4" SPROUT WELDMENT	0	1	0	0	0	0	0	0	0	0	316103
4'-0" SPROUT WELDMENT	0	0	1	0	0	0	0	0	0	0	316106
4'-8" SPROUT WELDMENT	0	0	0	1	0	0	0	0	0	0	316109
5'-4" SPROUT WELDMENT	0	0	0	0	1	0	0	0	0	0	316112
6'-0" SPROUT WELDMENT	0	0	0	0	0	1	0	0	0	0	316115
6'-8" SPROUT WELDMENT	0	0	0	0	0	0	1	0	0	0	316118
7'-4" SPROUT WELDMENT	0	0	0	0	0	0	0	1	0	0	315859
8'-0" SPROUT WELDMENT	0	0	0	0	0	0	0	0	1	0	316121
9'-0" SPROUT WELDMENT	0	0	0	0	0	0	0	0	0	1	317182
HARDWARE COMPLETE	1	1	1	1	1	1	1	1	1	1	316170
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	2	2	2	2	2	2	2	2	2	2	812051
3/8" LOCK NUT	2	2	2	2	2	2	2	2	2	2	804353
3/8" FLAT WASHER (1 1/4" O.D.)	4	4	4	4	4	4	4	4	4	4	817424

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

Note: Loctite (supplied by others) should be used on any non-patch hardware.

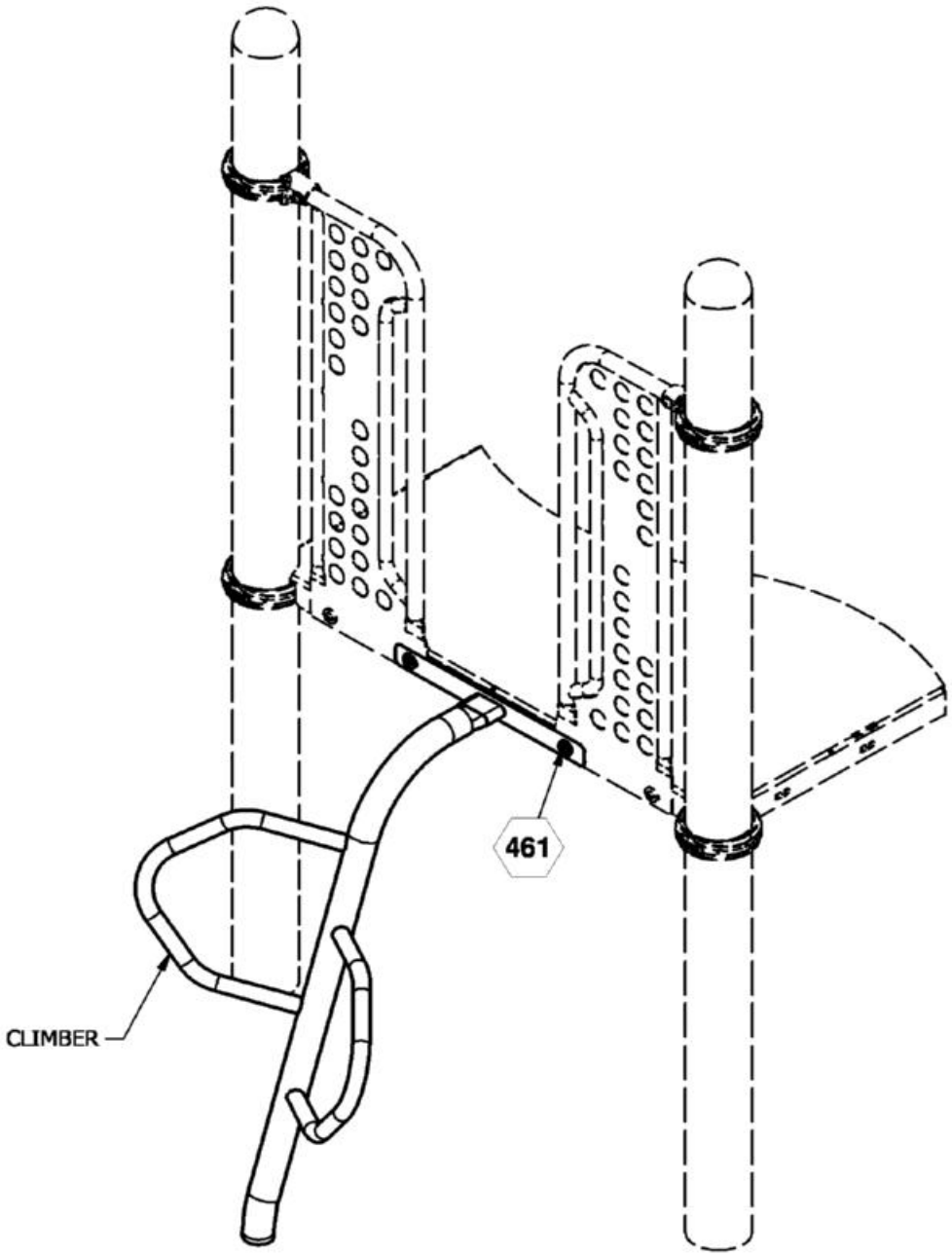
INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Sprout Climber. Refer to order top view.
2. Dig footing hole. Refer to Plan View for placement.
3. Attach the correct Sprout Climber to the deck. See Detail 461.
4. Plumb and level the entire assembly and tighten all fasteners.
5. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from post for water drainage. Allow to cure at least 48 hours before use. Temporary bracing may be required until concrete cures.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

72037 SPROUT CLIMBER (2'-8"); 72006 (3'-4"); 72007 (4'-0"); 72008 (4'-8"); 72009 (5'-4"); 72010 (6'-0"); 72011 (6'-8"); 72012 (7'-4"); 72013 (8'-0"); 72204 (9'-0")



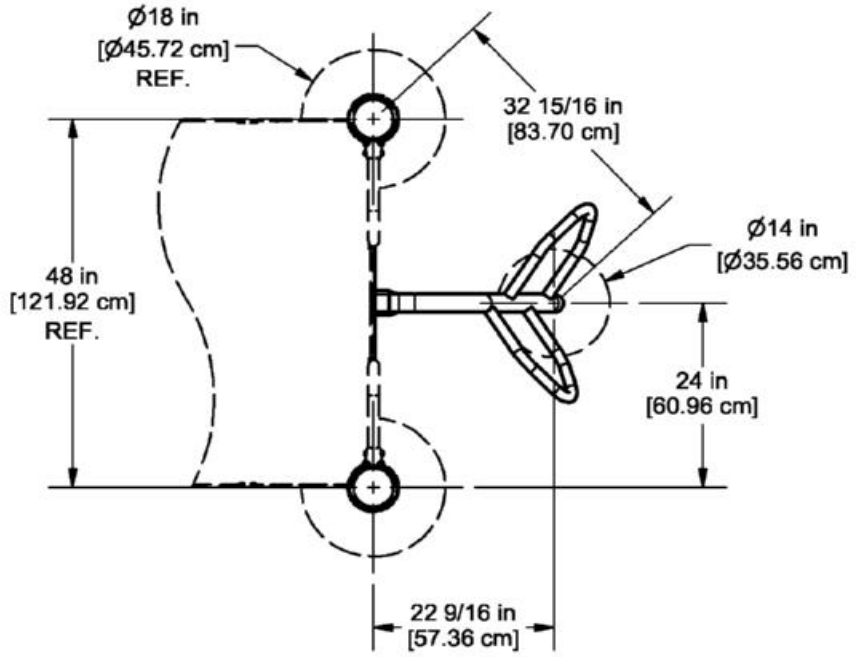
⬡ = INSTALLATION DETAIL

Issued/Revised: 7/17/2024

FINISHED ASSEMBLY
72006 SHOWN

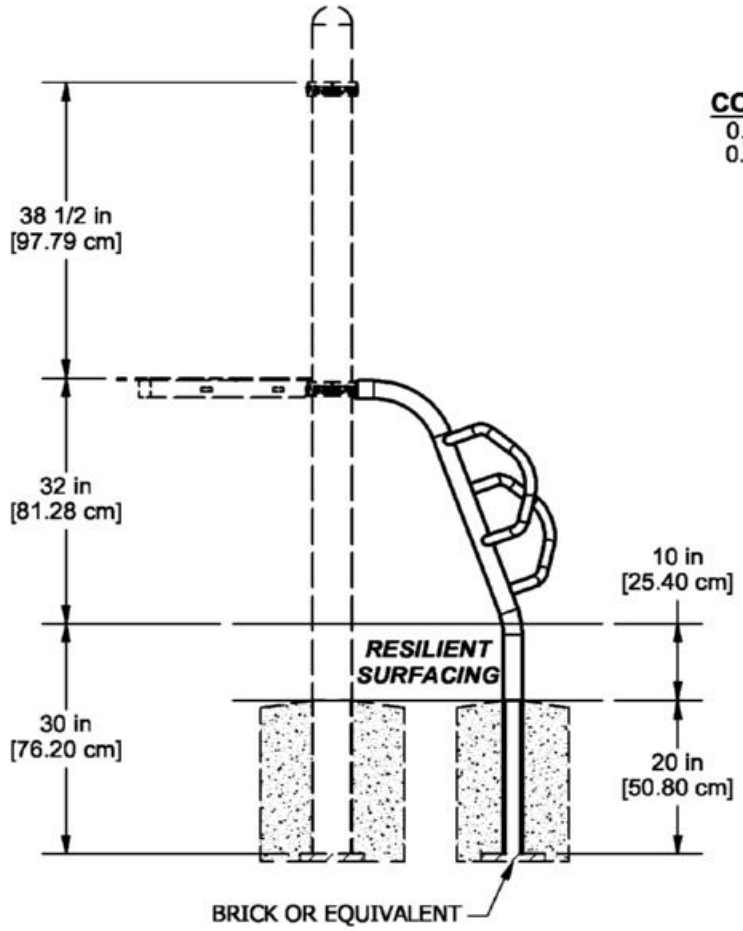
COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

72037 SPROUT CLIMBER 2'-8"



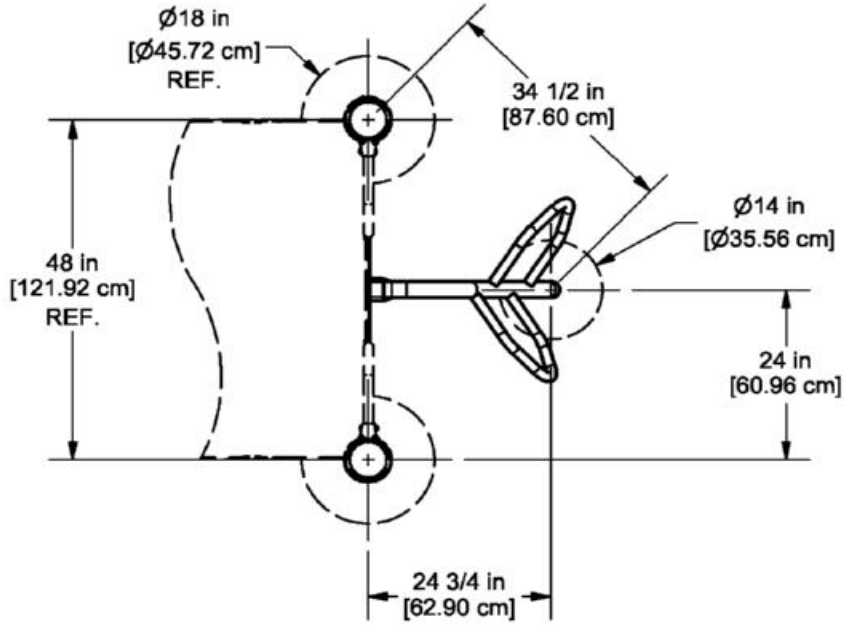
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



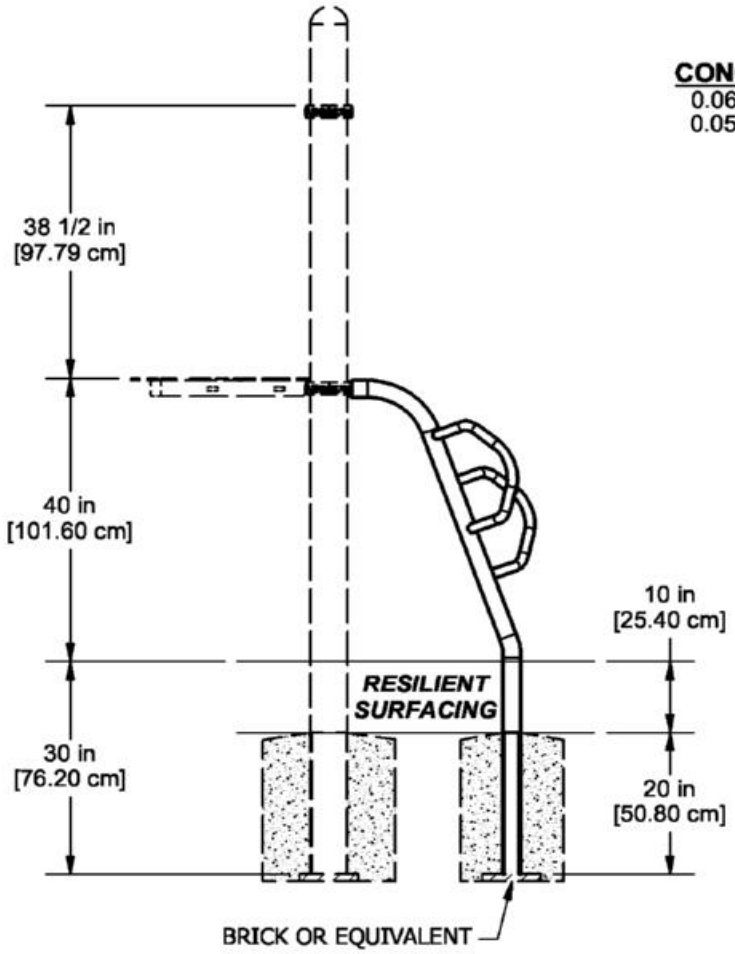
ELEVATION VIEW

72006 SPROUT CLIMBER 3'-4"



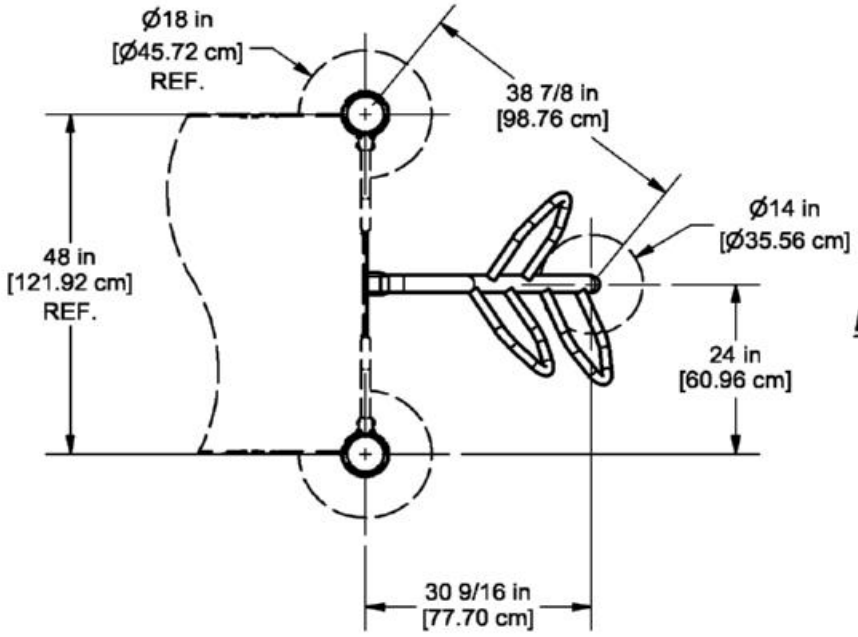
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



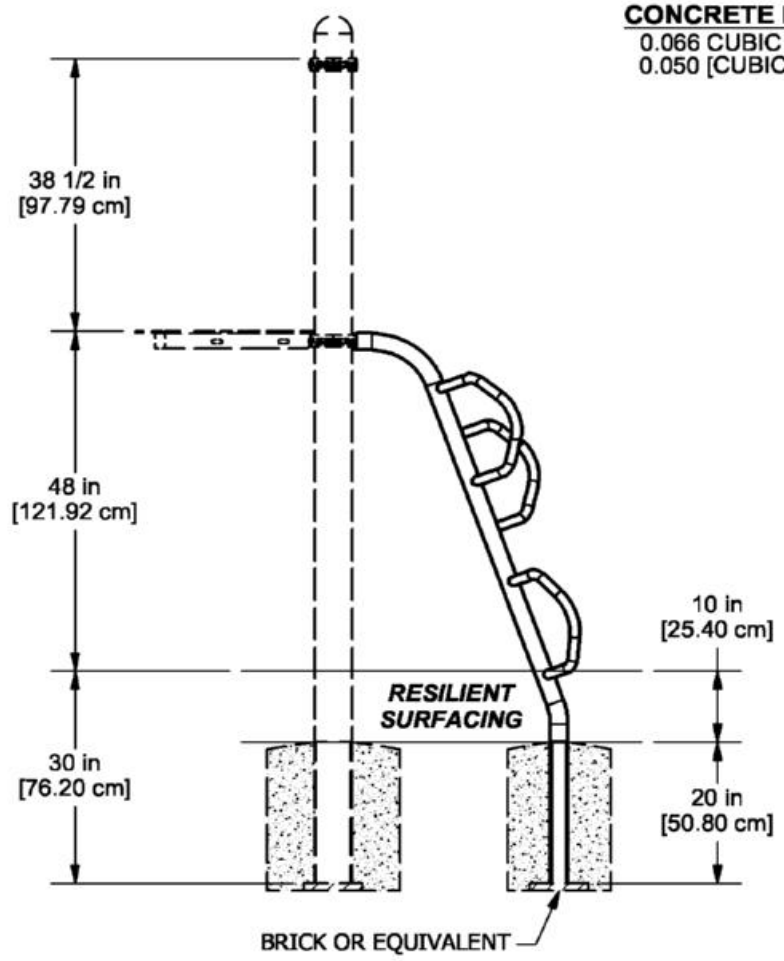
ELEVATION VIEW

72007 SPROUT CLIMBER 4'-0"



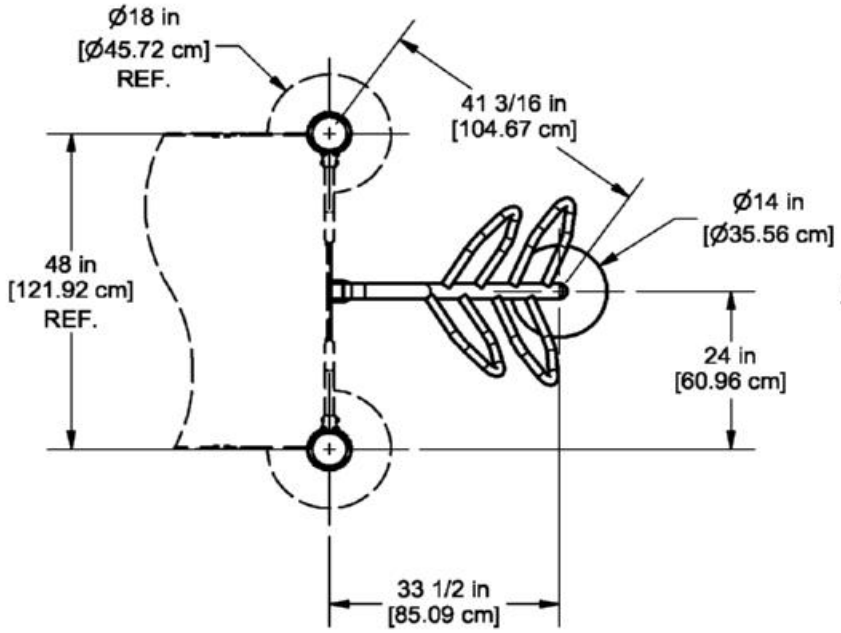
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



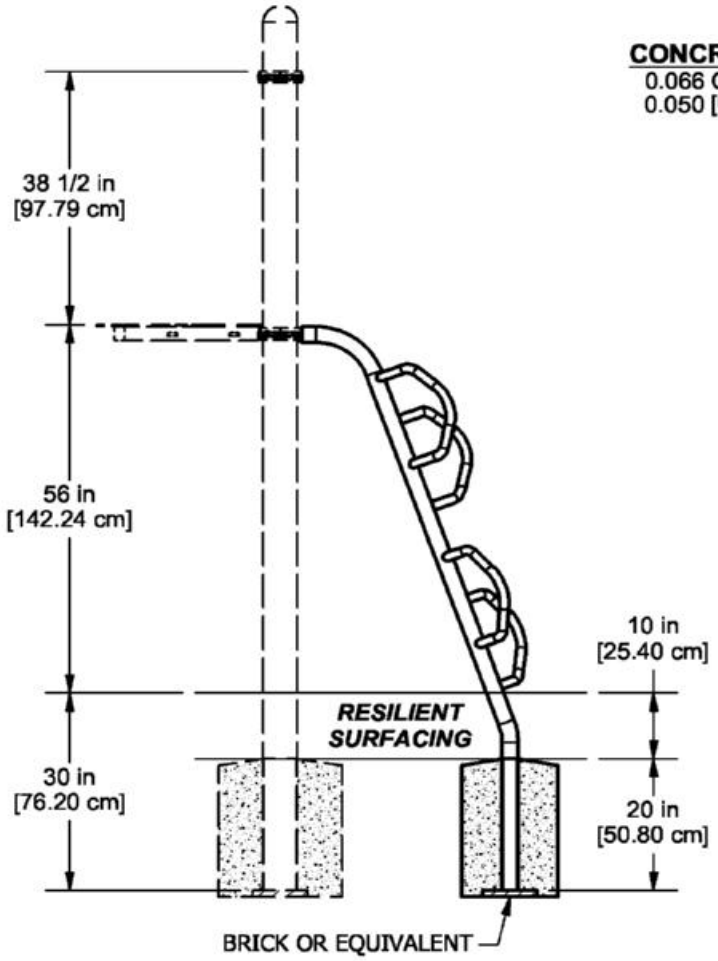
ELEVATION VIEW

72008 SPROUT CLIMBER 4'-8"



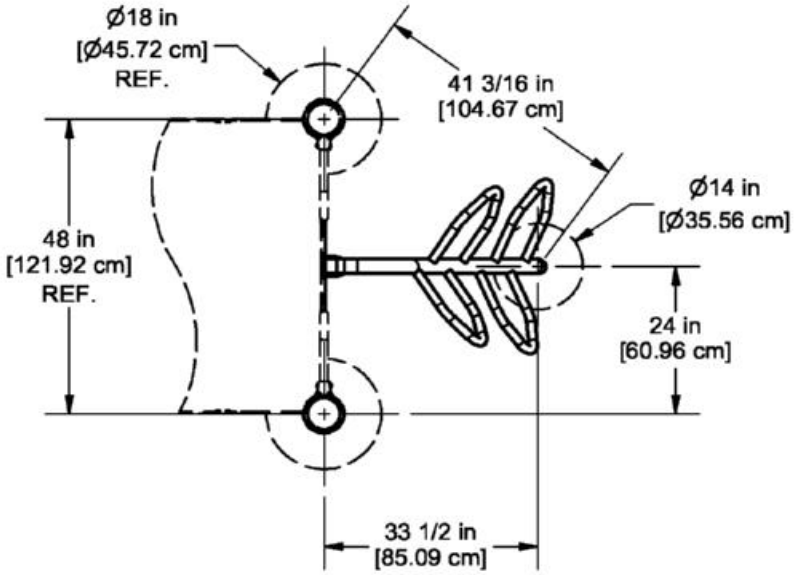
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



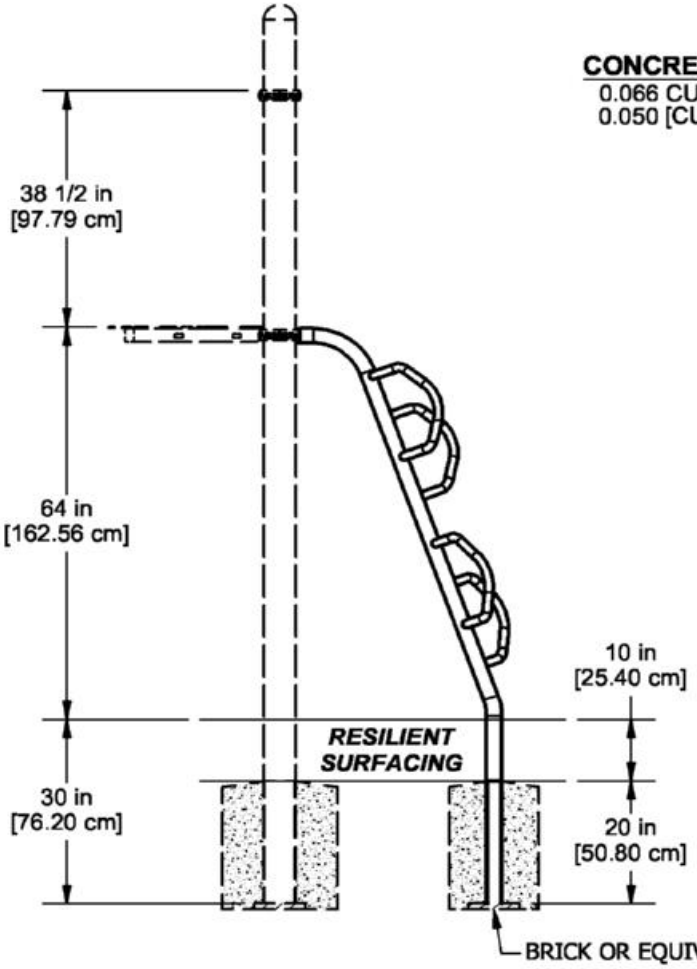
ELEVATION VIEW

72009 SPROUT CLIMBER 5'-4"



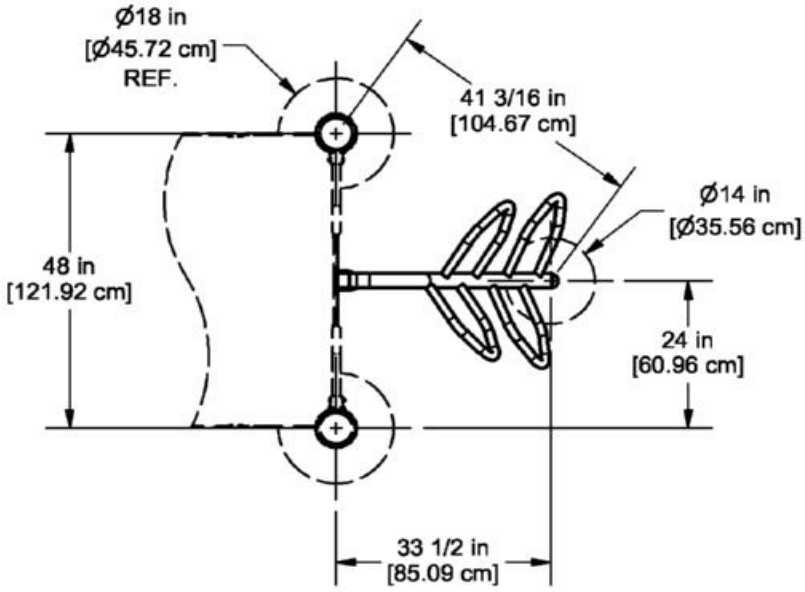
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



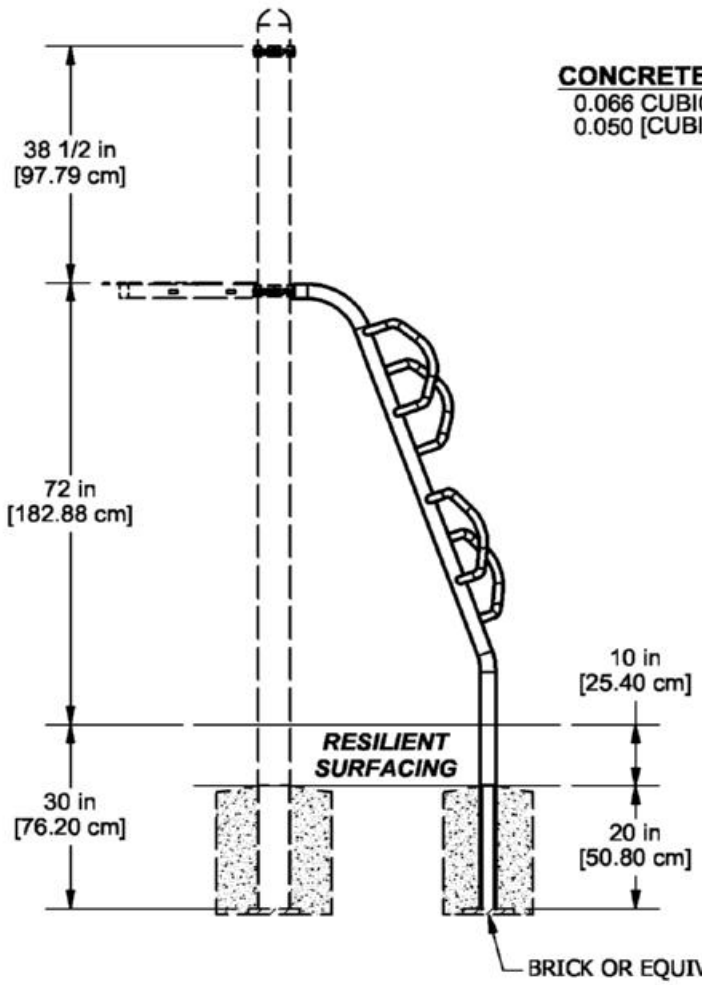
ELEVATION VIEW

72010 SPROUT CLIMBER 6'-0"



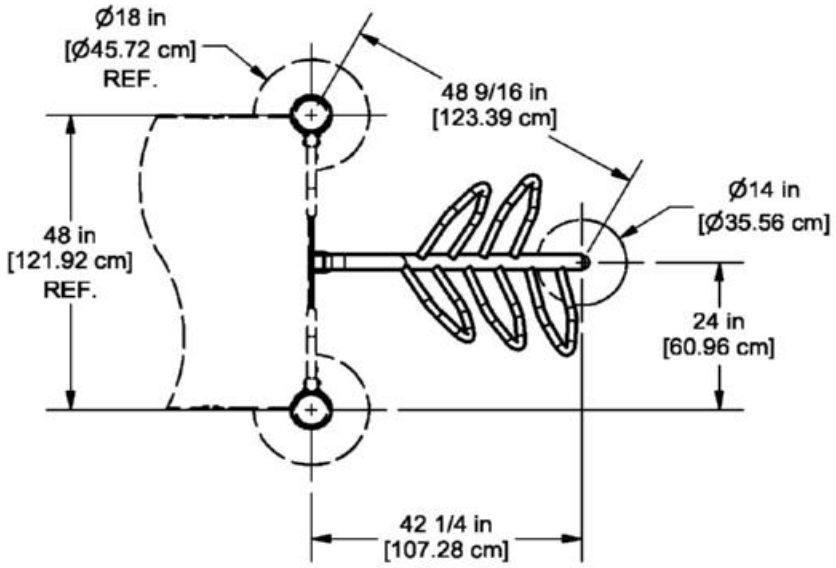
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]



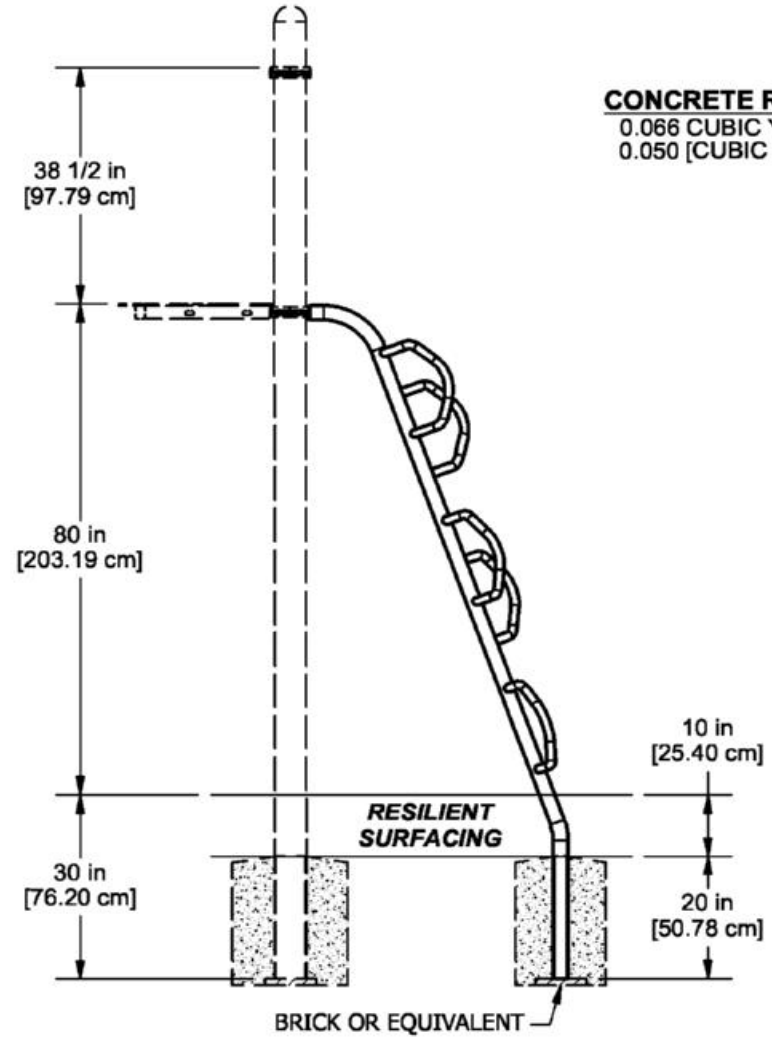
ELEVATION VIEW

72011 SPROUT CLIMBER 6'-8"



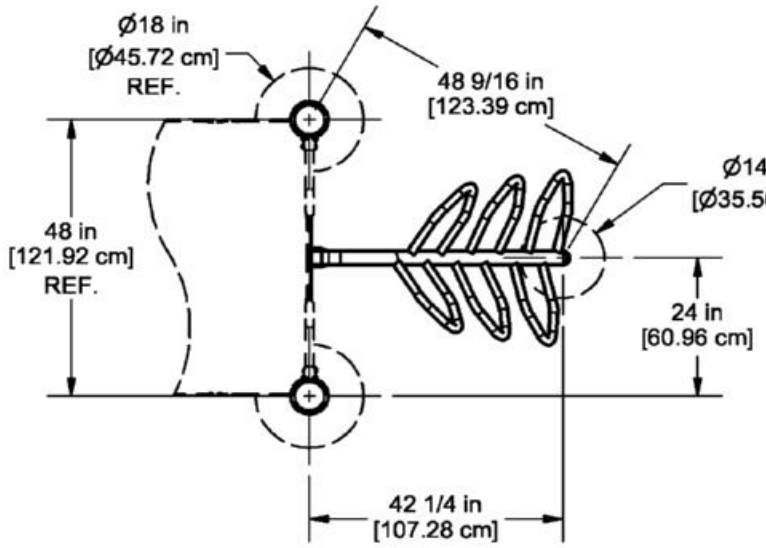
PLAN VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

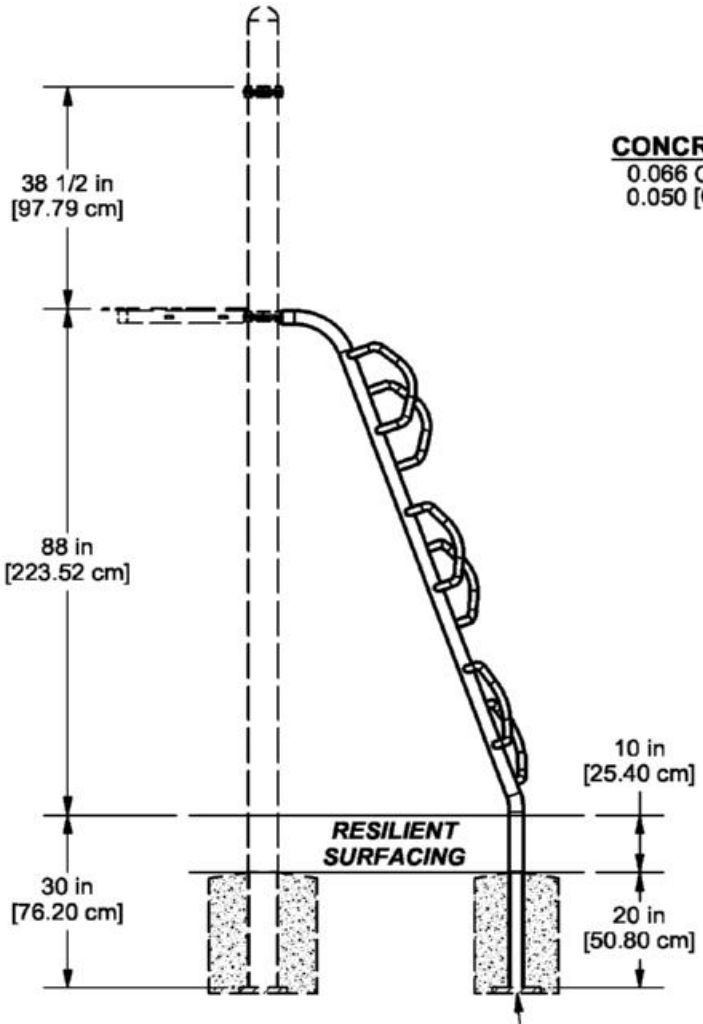


ELEVATION VIEW

72012 SPROUT CLIMBER 7'-4"



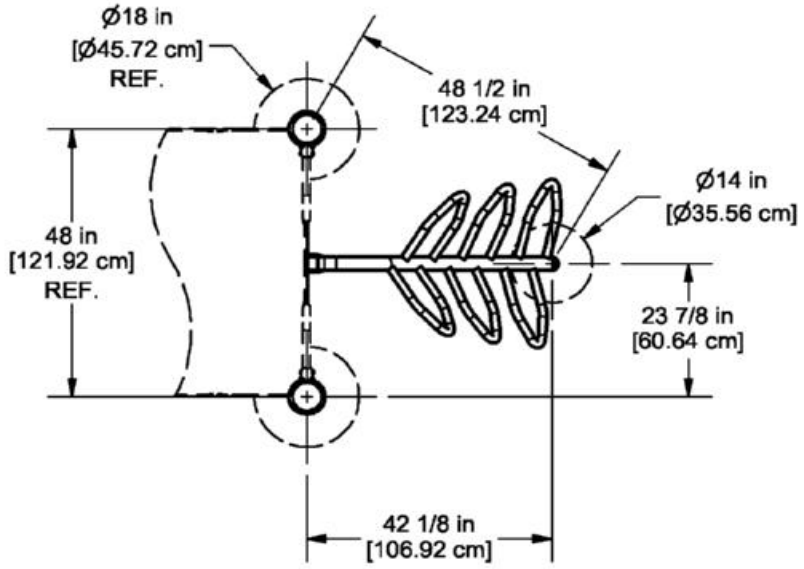
PLAN VIEW



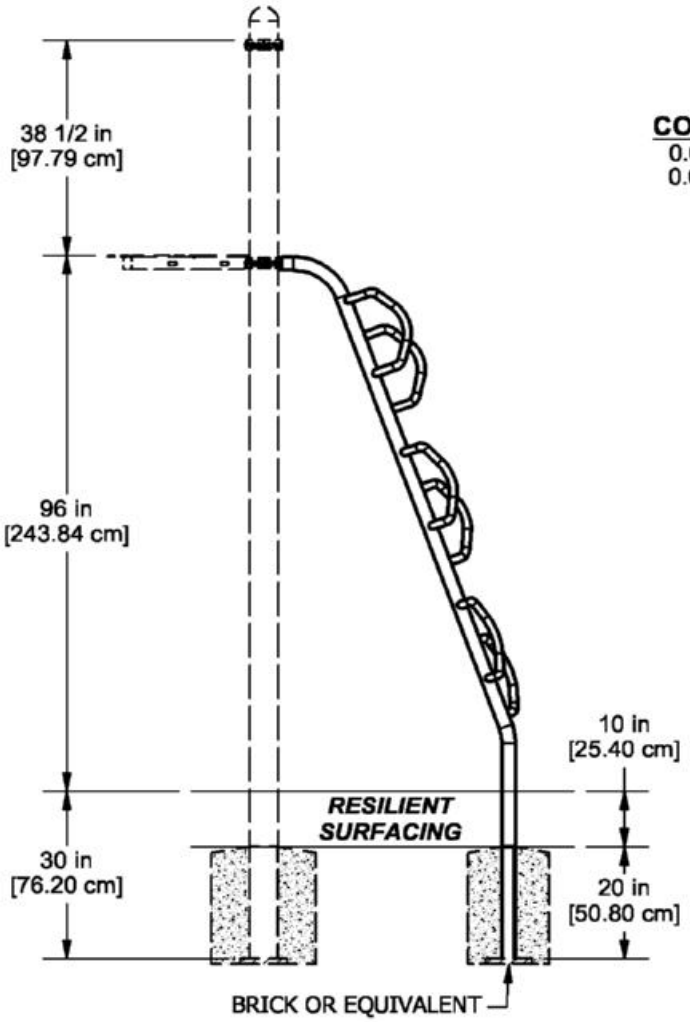
CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

ELEVATION VIEW

72013 SPROUT CLIMBER 8'-0"



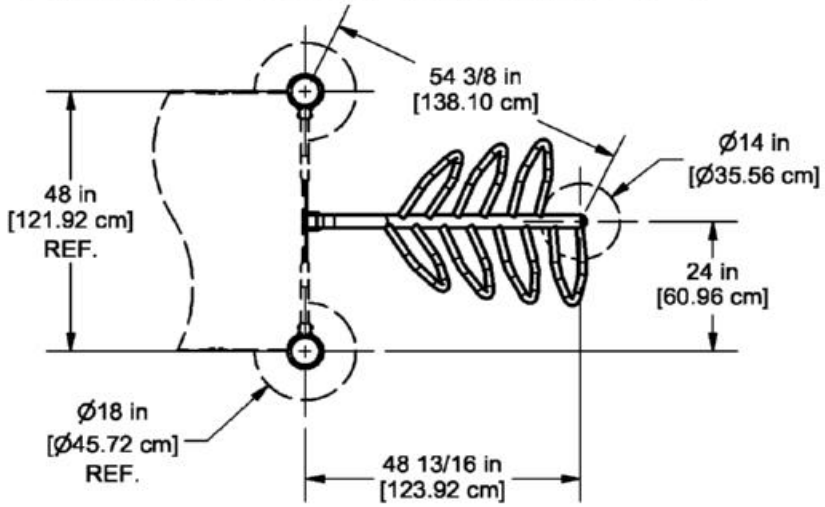
PLAN VIEW



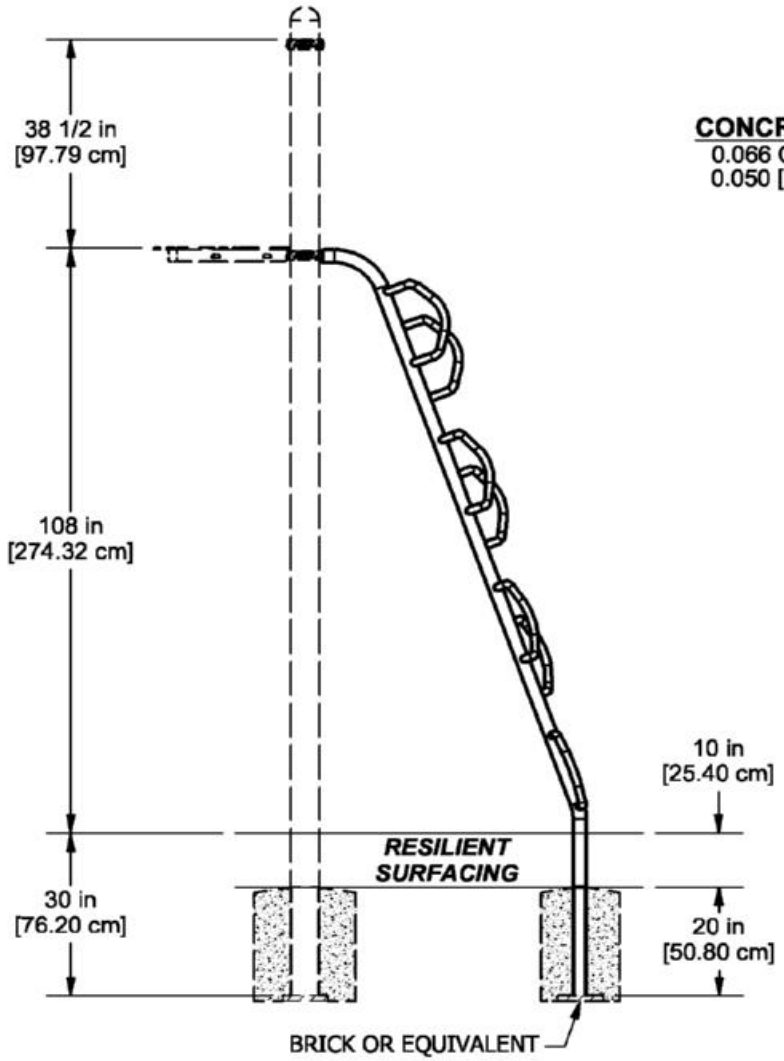
ELEVATION VIEW

CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

72204 SPROUT CLIMBER 9'-0"

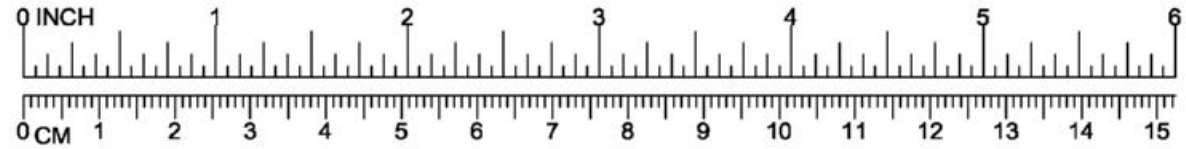


PLAN VIEW

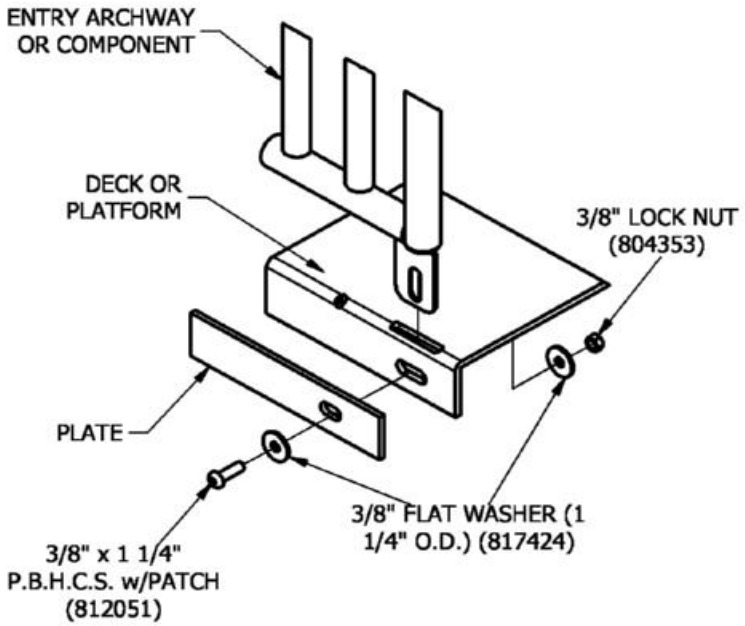


CONCRETE REQUIRED
0.066 CUBIC YARDS
0.050 [CUBIC METERS]

ELEVATION VIEW



72037 SPROUT CLIMBER (2'-8"); 72006 (3'-4"); 72007 (4'-0"); 72008 (4'-8"); 72009 (5'-4"); 72010 (6'-0"); 72011 (6'-8"); 72012 (7'-4"); 72013 (8'-0"); 72204 (9'-0")



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SuperMax Play Systems

This equipment is designed for children 2-5 or 5-12 years old

72066 INTERACTIVE SENSOR PANEL

Parts List		
DESCRIPTION	QTY	PART NUMBER
SUPPORT PIPE	2	307586
PANEL ADAPTER	2	309919
SM ACTIVITY PANEL	1	313586
HARDWARE COMPLETE	1	313459
1/4" x 3/4" SET SCREW	4	811545
3/8" x 1" P.B.H.C.S. w/PATCH	2	812050
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056
3/8" FLAT WASHER (1 1/4" O.D.)	6	817424
3/8" BARREL NUT	2	804804
3/8" LOCK NUT	2	804353

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

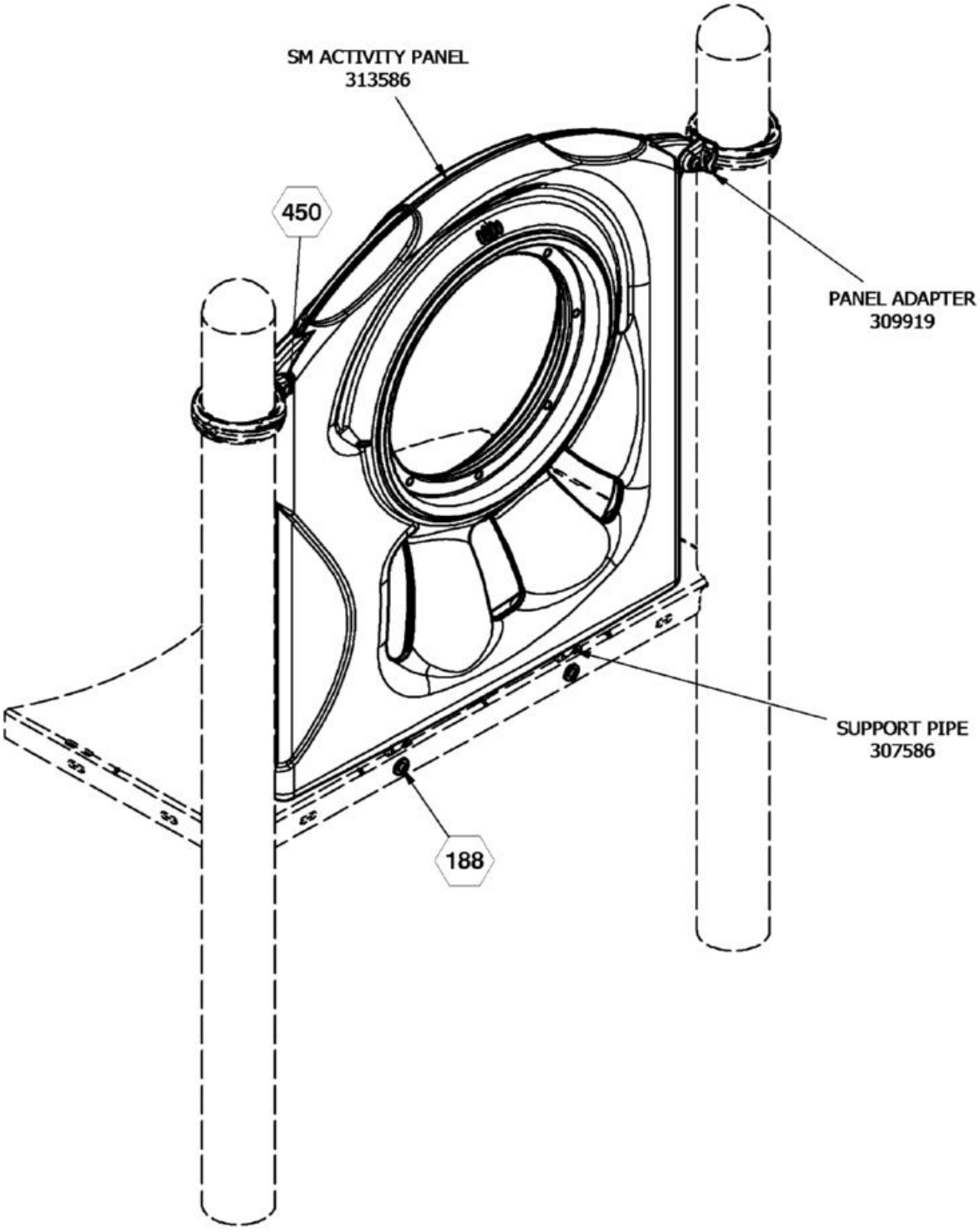
1. Determine which deck is to receive the Interactive Sensor Panel. Refer to Order Top View.
2. Attach the Support Pipes to the deck. See Detail 188.
3. Attach the Panel Adapters to the Ring Clamps. See Detail 450.
4. Slide the Activity Panel onto the Support Pipes and connect it to the Panel Clamps. See Detail 450.
5. Plumb and level the entire assembly and tighten all fasteners.
6. When the structure is finished and satisfactory, install Drive Rivets to all clamps to ensure clamps cannot slide down posts. See Pipe Clamps sub-assembly sheet. ***It is very important that all Drive Rivets be installed prior to allowing use of equipment, as clamps are not designed to support substantial weight without them.*** Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc. Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72066 INTERACTIVE SENSOR PANEL



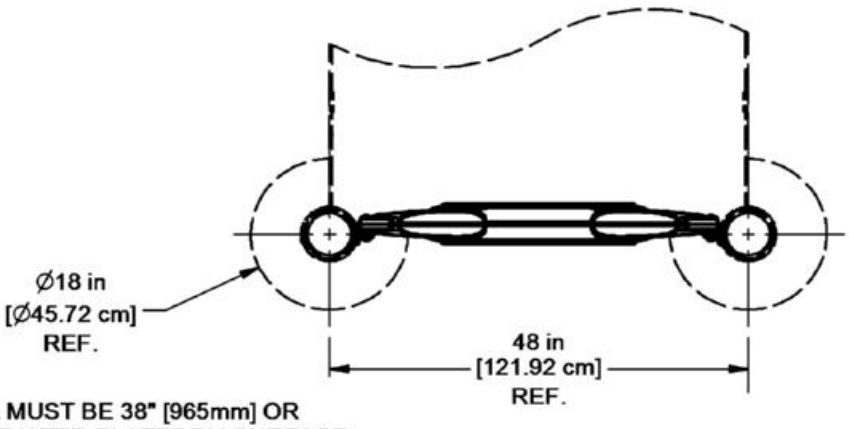
= INSTALLATION DETAIL

Issued/Revised: 12/14/2022

FINISHED ASSEMBLY

COMPONENTS SHOWN IN
HIDDEN LINES ARE SOLD SEPARATELY

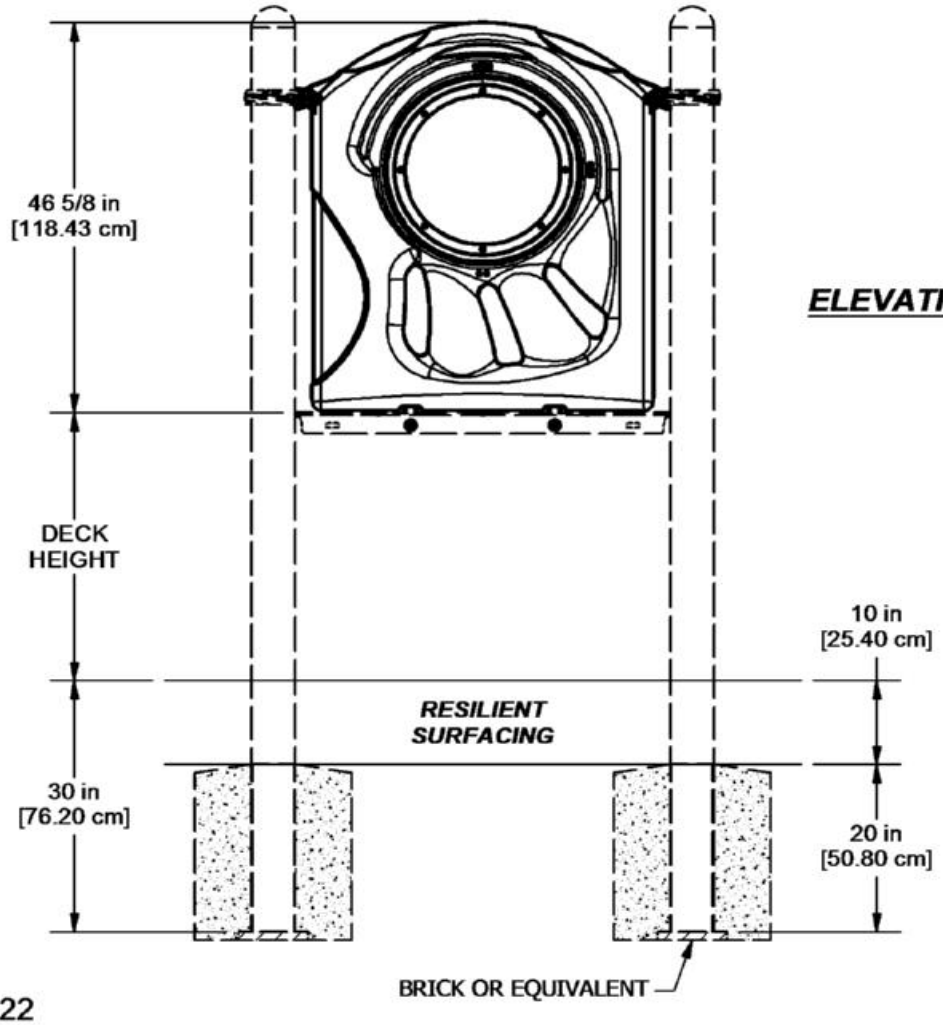
72066 INTERACTIVE SENSOR PANEL



PLAN VIEW

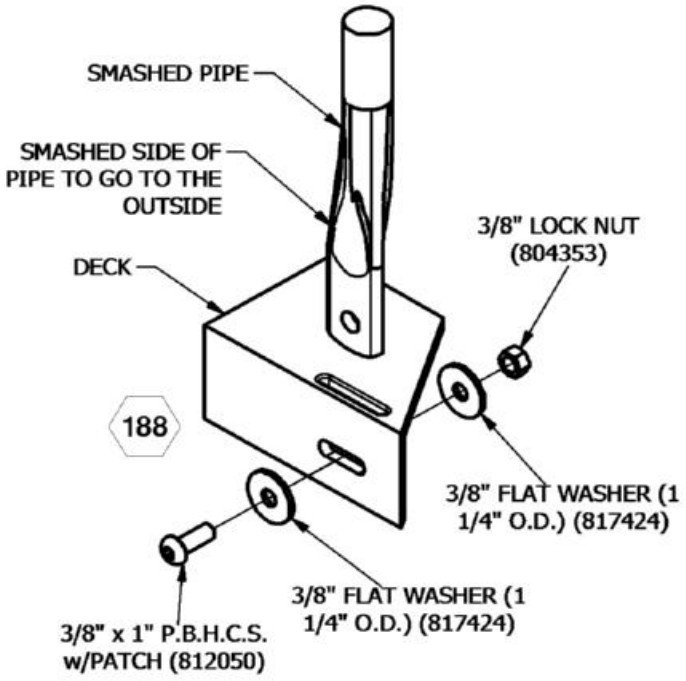
NOTE:
TOP EDGE OF PANEL MUST BE 38" [965mm] OR GREATER ABOVE ELEVATED PLATFORM SURFACE FOR USE BY 5-12 YEAR OLDS.

TOP EDGE OF PANEL MUST BE 29" [736mm] OR GREATER ABOVE ELEVATED PLATFORM SURFACE FOR USE BY 2-5 YEAR OLDS.



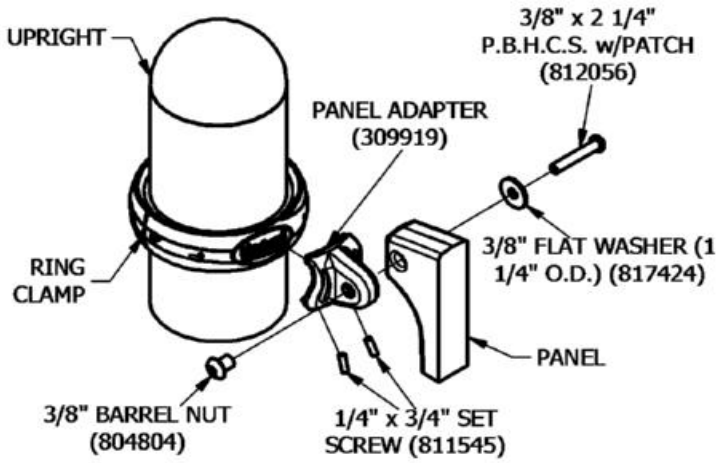
ELEVATION VIEW

72066 INTERACTIVE SENSOR PANEL



NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



450

72079 TRACKS ACTIVITY PANEL

Parts List		
DESCRIPTION	QTY	PART NUMBER
PANEL ADAPTER	2	309919
CRAWL TUNNEL PANEL	1	309997
MOUNTING BRACKET	1	310919
SUPERMAX TRACKS ACTIVITY PANEL	1	316407
HARDWARE COMPILATION	1	316393
1/4" x 3/4" SET SCREW	4	811545
5/16" x 1 1/2" P.B.H.C.S. w/PATCH	12	812045
5/16" LOCK WASHER	12	817330
5/16" FLAT WASHER (5/8" O.D.)	12	817406
5/16" T-NUT	12	804555
3/8" x 1" P.B.H.C.S. w/PATCH	2	812050
3/8" x 2 1/4" P.B.H.C.S. w/PATCH	2	812056
3/8" LOCK WASHER	2	817334
3/8" FLAT WASHER	2	817410
3/8" FLAT WASHER (1 1/4" O.D.)	4	817424
3/8" BARREL NUT	2	804804
3/8" LOCK NUT	2	804353

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

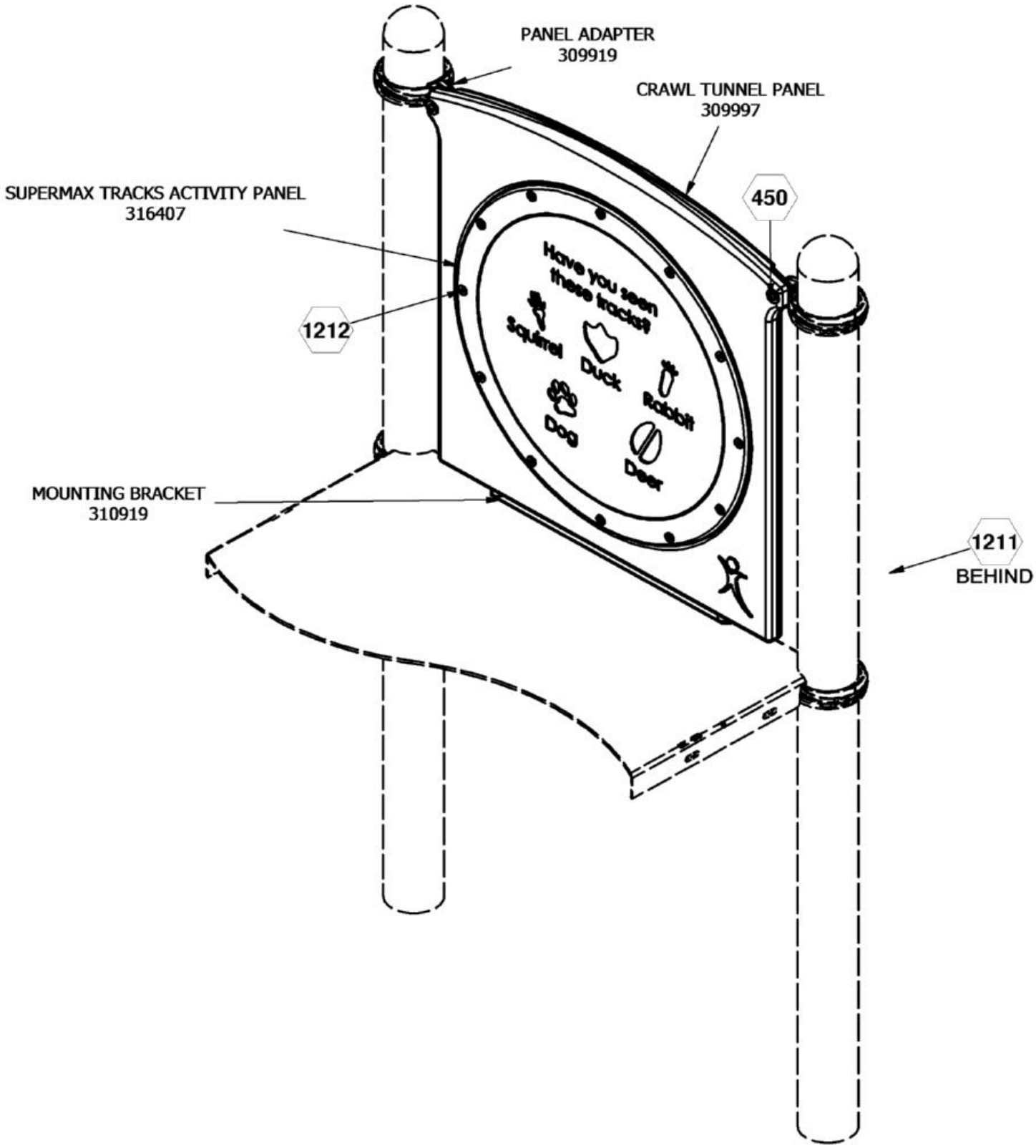
INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Tracks Activity Panel. Refer to Order Top View.
2. Attach the Panel Mounting Bracket to the deck. See Detail 1211.
3. Attach Tracks Activity Panel to Crawl Tube Panel. See Detail 1212.
4. Loosely attach Ring Clamps. Refer to seperate Ring Clamp installation sheet.
5. Attach Panel Adapters to Ring Clamps. See Detail 450.
6. Slide the Tracks Activity Panel assembly onto the Panel Mounting Bracket and attach it to the Panel Adapters. See Detail 450. Refer to Finished Assembly view for correct orientation.
7. Plumb and level the entire assembly and tighten all fasteners.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

72079 TRACKS ACTIVITY PANEL



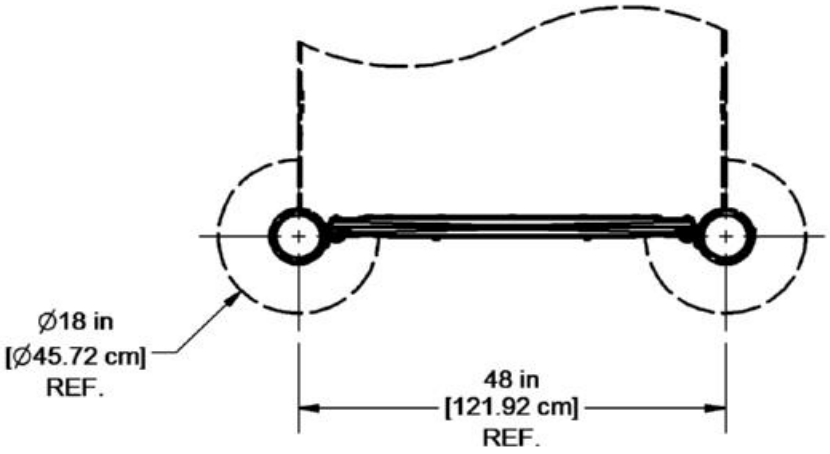
= INSTALLATION DETAIL

Issued/Revised: 3/14/2023

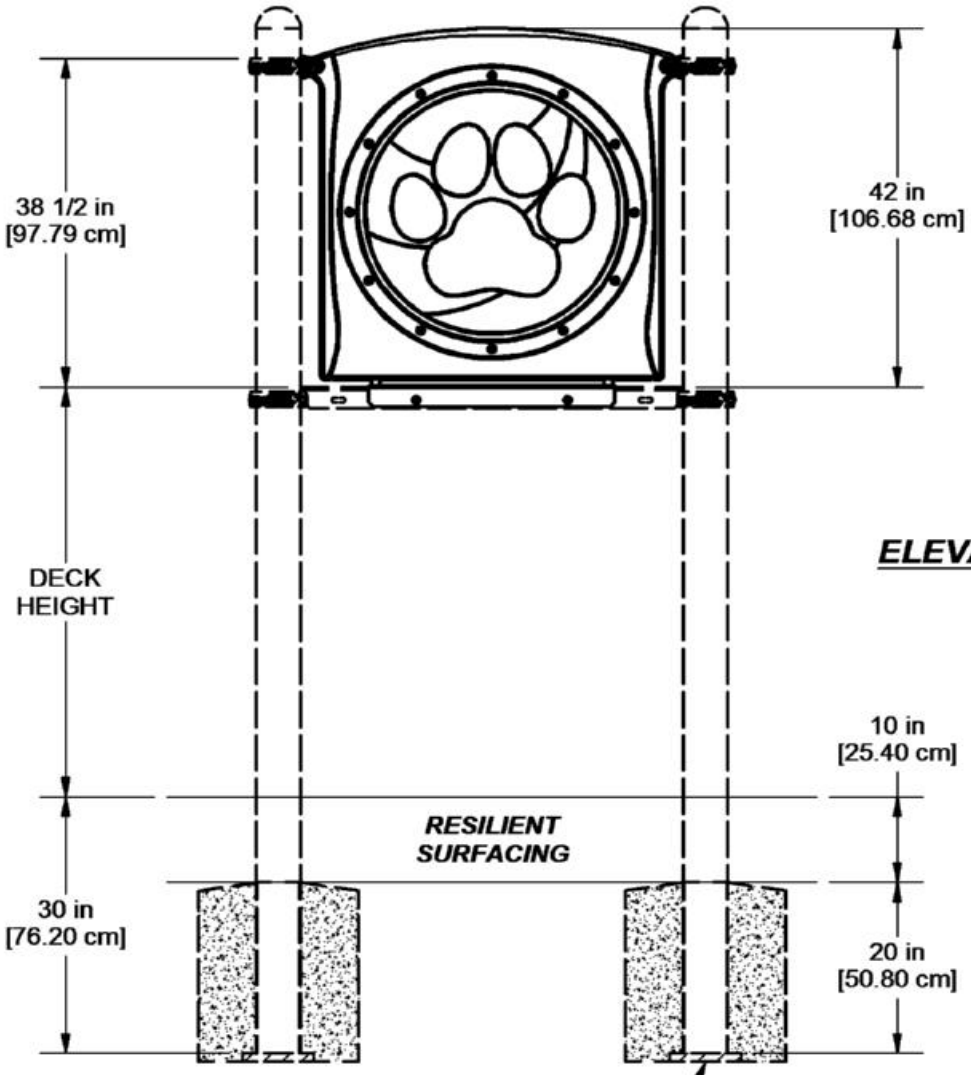
FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

72079 TRACKS ACTIVITY PANEL



PLAN VIEW

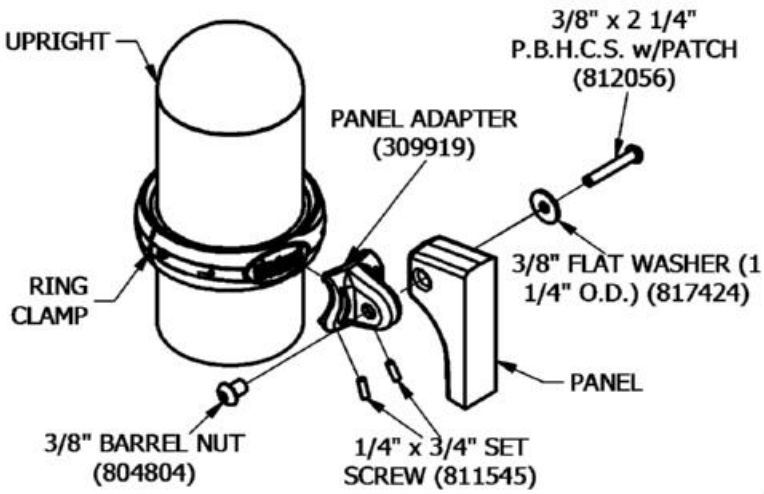


ELEVATION VIEW

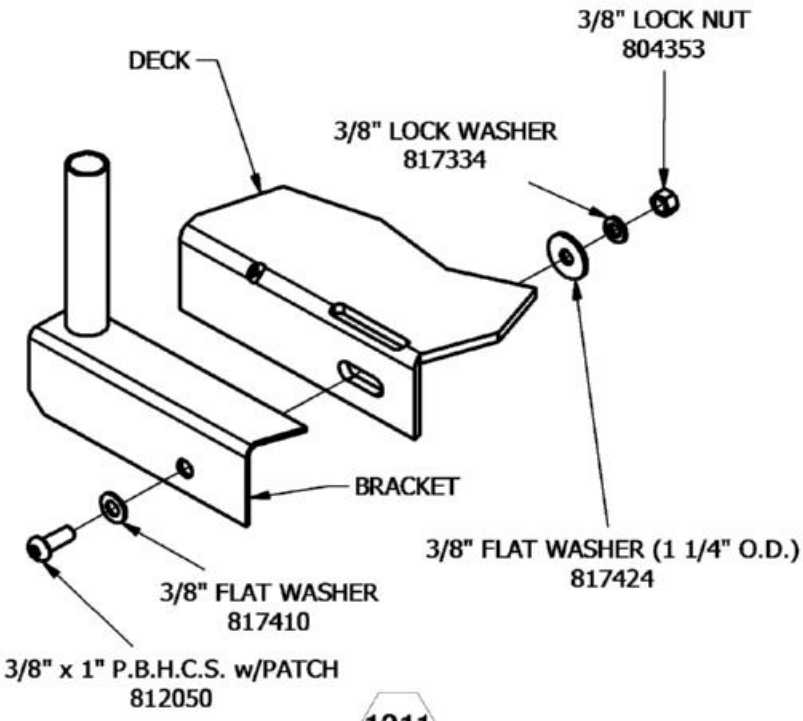
72079 TRACKS ACTIVITY PANEL

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

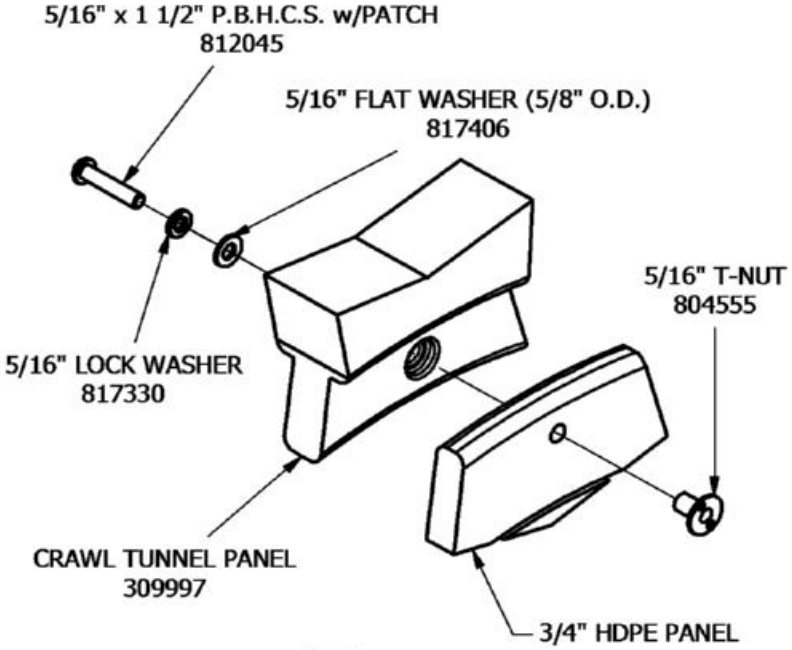
PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



450



1211



1212

SuperMax Play Systems

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

Parts List			
DESCRIPTION	72159	72160	PART NUMBER
10' SQUARE FABRIC PACKAGE	1	1	223002
CABLE CLAMPS	4	4	**
10' SQUARE SHADE FABRIC	1	1	**
3/16" CABLE, 50'-0" LG	1	1	**
10' RAFTER	4	4	223018
SHADE CROWN WELD ASSEMBLY	1	0	223039
SHADE CROWN WELD ASSEMBLY	0	1	223046
IN-GROUND EXTENSION	1	1	223118
GLIDE ELBOW	4	4	316306
HARDWARE COMPLETE	1	1	316969
1/4" x 1" SELF TAPPING TORX w/PATCH	8	8	HWS0021
3/8" x 1 1/4" SELF TAPPING TORX w/PATCH	8	8	HWS0081
1/2" x 4" HEX HEAD BOLT	4	4	801215
1/2" LOCKNUT	4	4	804355
1/2" ANCHOR ROD	2	2	135038

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

INSTALLATION INSTRUCTIONS:

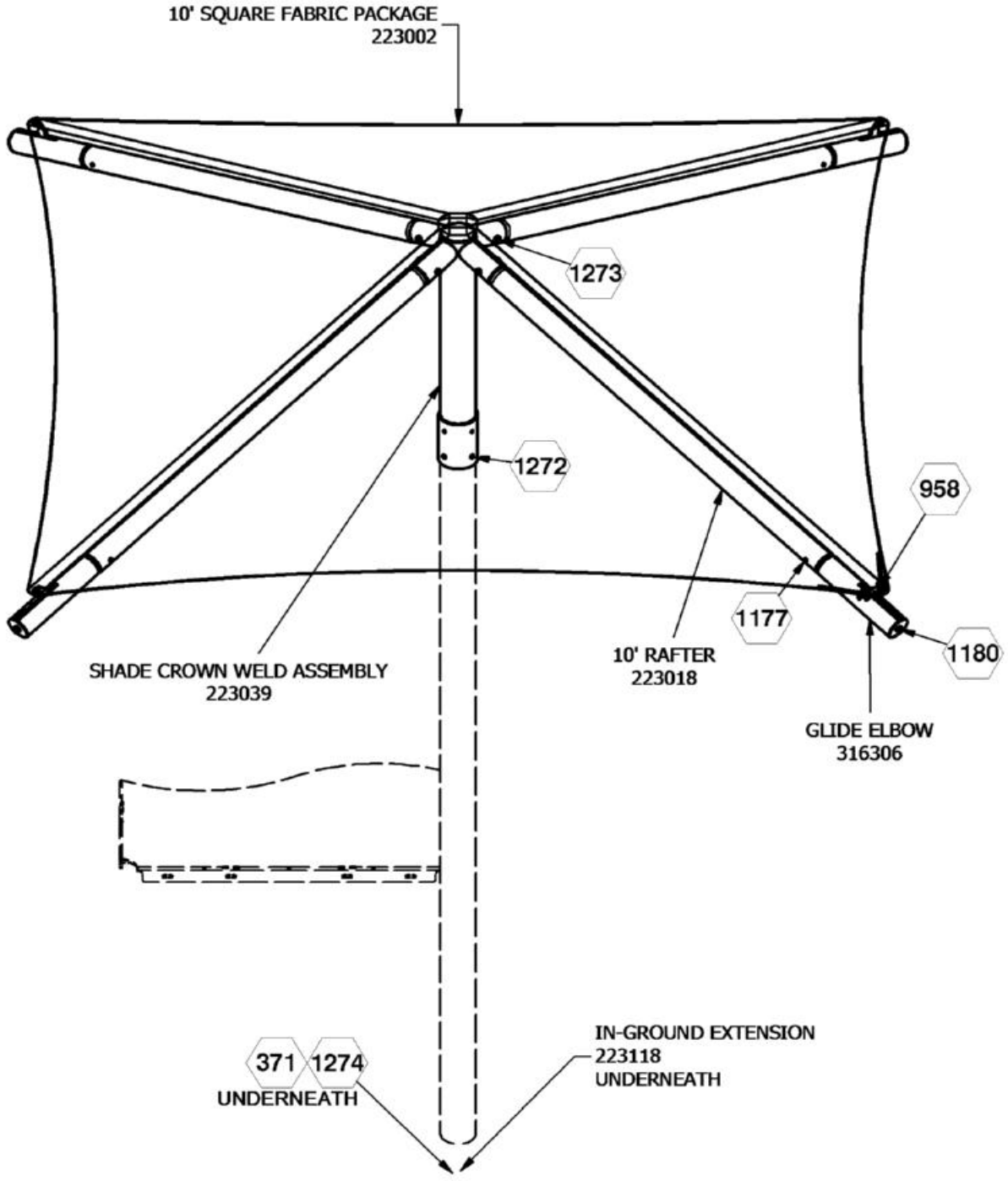
1. Determine which upright is to receive the 10' x 10' Shade. Refer to order Top View.
2. Put Anchor Rods into In-Ground Extensions. See Detail 371.
3. Attach the In-Ground Extension to the existing upright. See Detail 1274.
4. Attach the Shade Crown Weld Assembly to the existing upright. See Detail 1272.
5. Attach the Glide Elbows to the 10' Rafters. See Detail 956.
6. Attach the assembled rafters to Shade Crown Weld Assembly. See Detail 1273. **NOTE:** Orientation of hook on Glide Extension is critical.
7. Starting at any corner thread the steel cable through the jump-out hole under loop at the edge of the shade fabric until it comes out the end of the sleeve at the next corner. Continue threading cable through sleeve all the way around the shade fabric until the entire shade fabric has been encircled. Cable will exit through jump-out hole on the same corner it was started. Leave a loop of approximately 9 inches at each non-tensioning corner. Spread the shade fabric over the frame and secure corners to the Glide Hooks. It may be necessary to flap the loose corners up and down to stretch the shade fabric so that it fits over the Glide Hooks. **NOTE:** The Steel Cable must always pass under the Glide Hooks. See Detail 958.
8. Pull tight by hand then using the clamps provided, fasten the steel cables together. All clamps must be used. After clamps are tightened, thread the excess steel cable back into the jump-out holes in the shade fabric. **NOTE:** If any portion of the steel cable was bent/kinked during the tensioning process, it must be straightened by bending the steel cable back in the opposite direction of the bend. **NOTE:** Cable clamp must be installed with nuts facing down. Clamps must be touching each other. **NOTE:** Any bolt end protruding more than two full threads beyond face of the nut promptly cut-off flush, file smooth, and treat to prevent corrosion. See Detail 958.
9. Remove Cover Plate from Glide Insert to access tensioning nut. Take turns tensioning each Glide Insert in small increments. Make sure that the steel cables cross each other at the corner where the steel cable ends. DO NOT OVER TENSION! You can test the tightness of the shade fabric by hitting the perimeter steel cable with the palm of your hand to see how much it moves. If the shade fabric does not move more than 6" up or down then you have the correct tension. If the shade fabric bounces and has a ripple affect then you may need to apply more tension. Attach Cover Plate to Glide Insert. See Detail 957.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

SuperMax Play Systems

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'



⬡ = INSTALLATION DETAIL

Issued/Revised: 11/2/2023

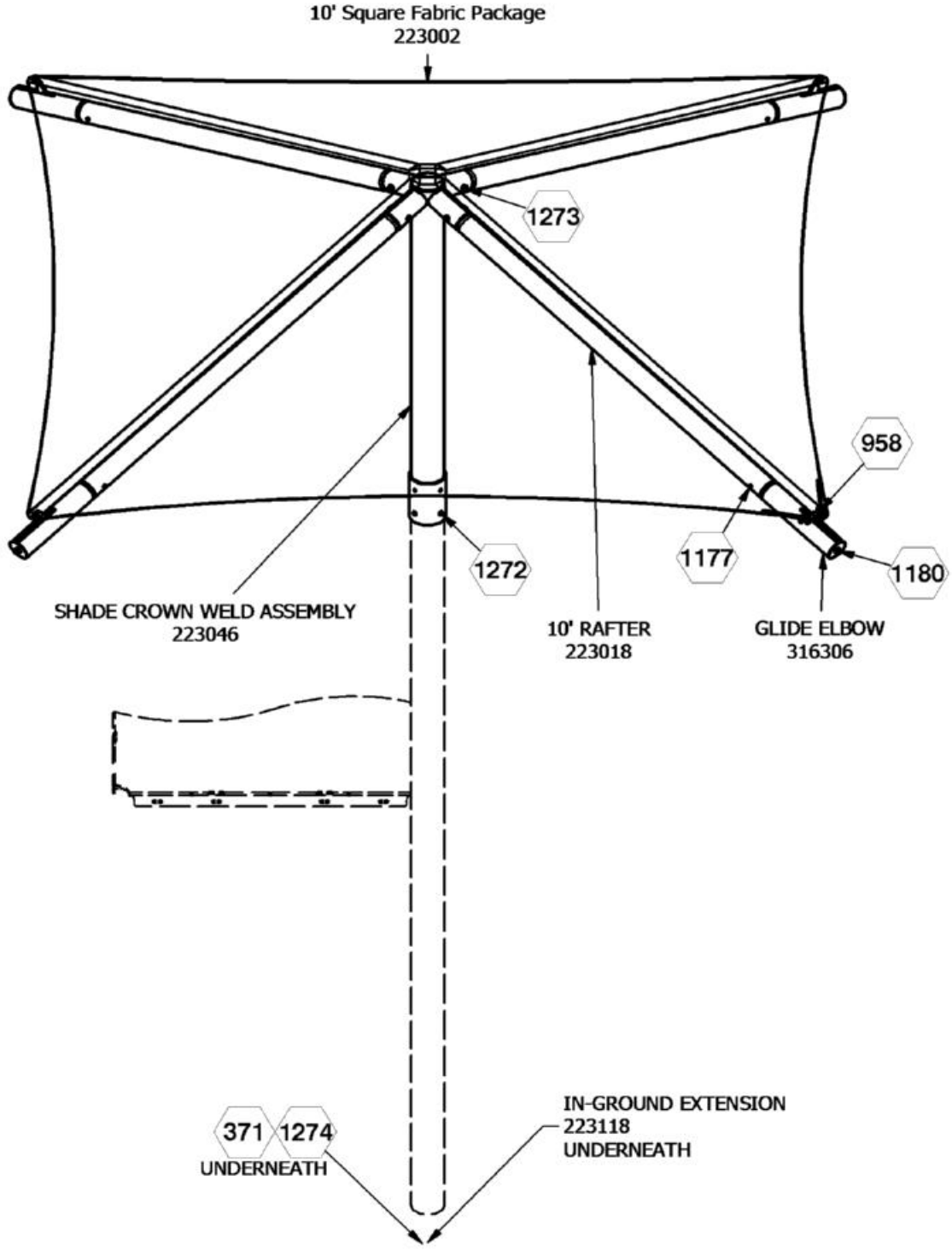
FINISHED ASSEMBLY

4'-0" SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

SuperMax Play Systems

72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'



⬡ = INSTALLATION DETAIL

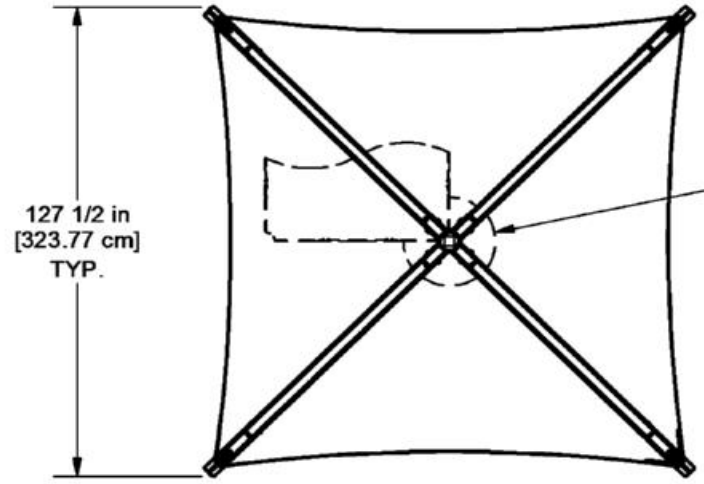
Issued/Revised: 11/2/2023

FINISHED ASSEMBLY

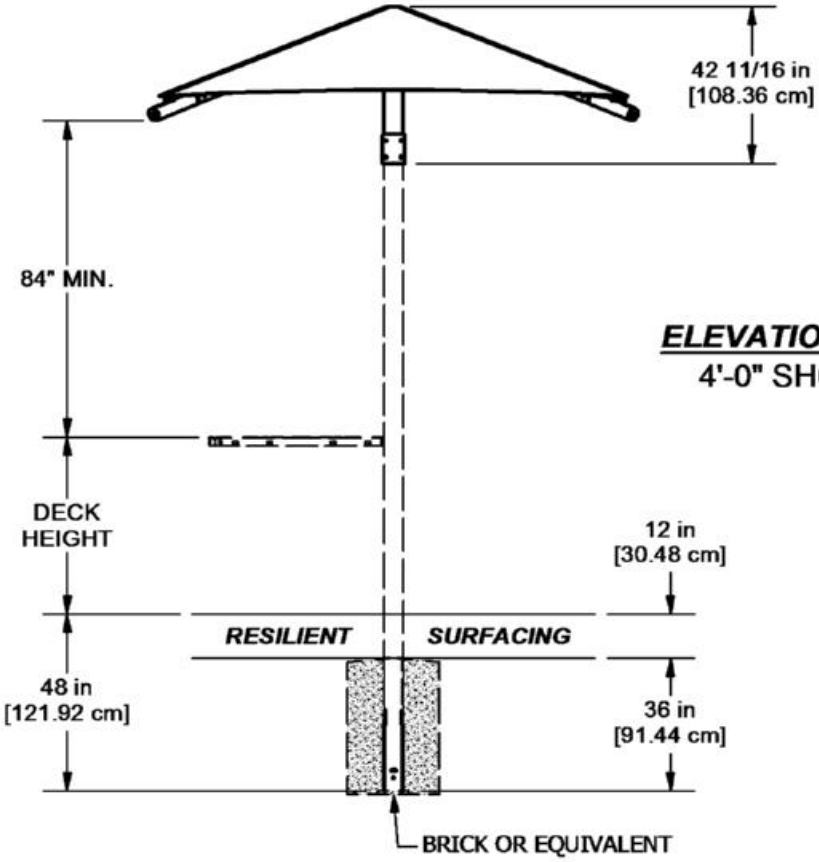
6'-8" SHOWN

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'



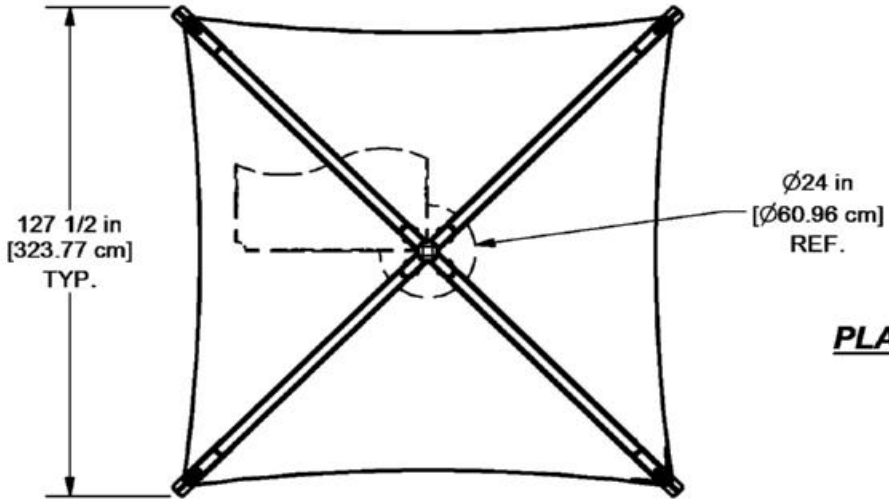
PLAN VIEW



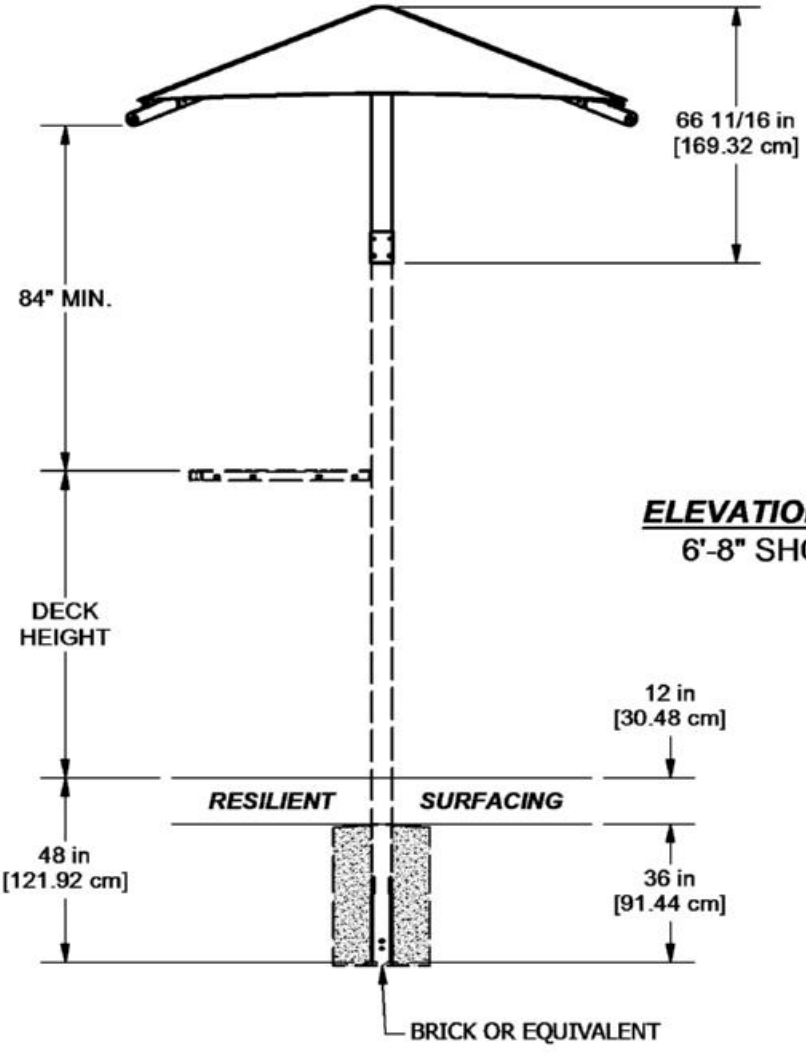
ELEVATION VIEW
4'-0" SHOWN

SuperMax Play Systems

72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'

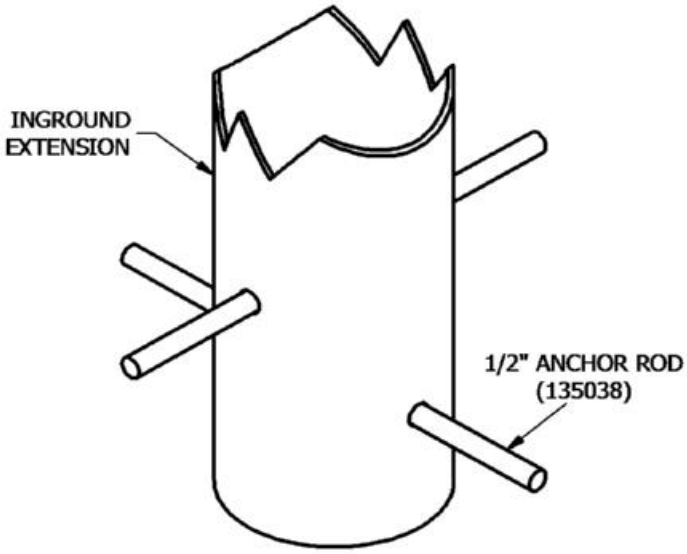


PLAN VIEW



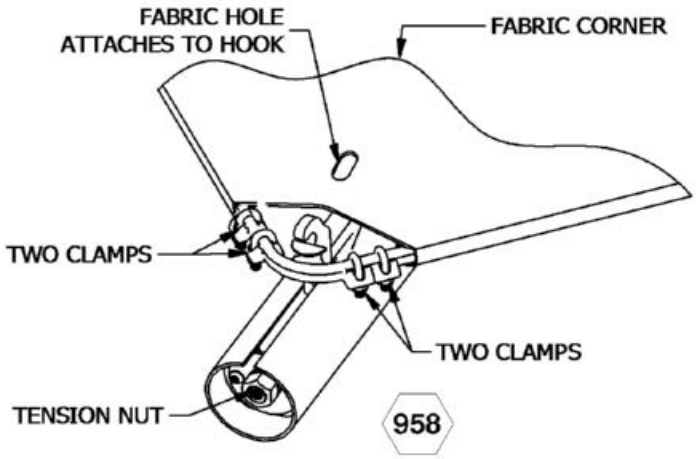
ELEVATION VIEW
6'-8" SHOWN

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'



371

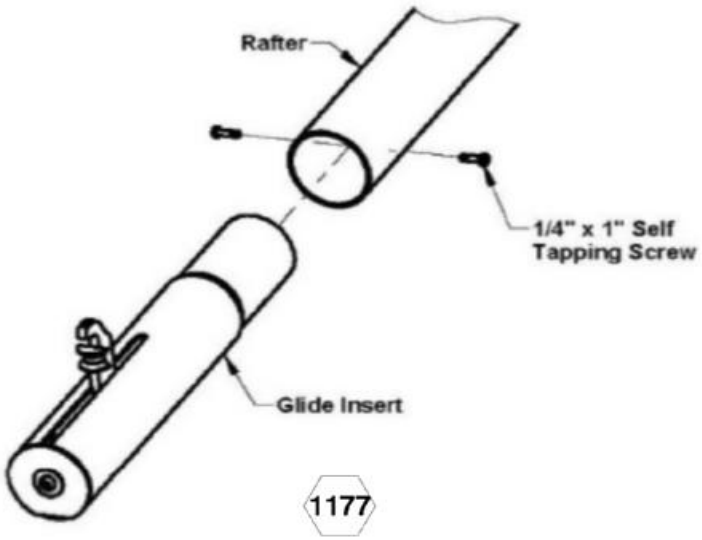
SMALLER GLIDE INSERTS WILL NOT HAVE A CABLE GUIDE ON THE GLIDE HOOK. THE CABLE FOLLOWED BY THE FABRIC HOLE ARE BOTH PLACED OVER THE HOOK.



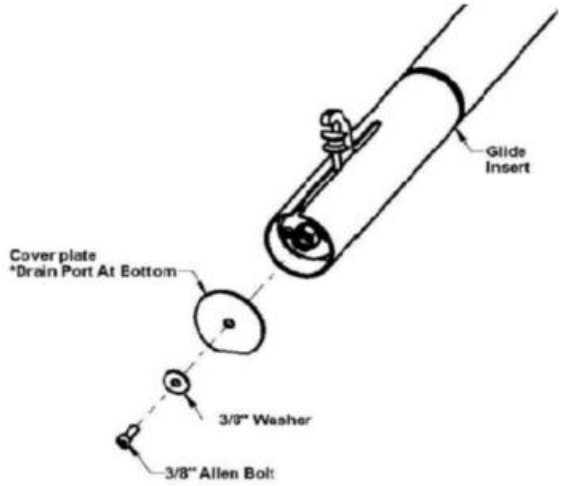
958

NOTE: ON THREE OF THE FOUR CORNERS THE CABLE WILL LOOP AROUND THE HOOK OR CABLE GUIDE.

ON THE FOURTH CORNER THE CABLE ENDS WILL OVERLAP AROUND THE HOOK OR CABLE GUIDE AND BE SECURED WITH TWO CABLE CLAMPS ON EITHER SIDE. THE FABRIC HOLE IS THEN PULLED OVER HOOK. LOOSE CABLE END ARE TO BE TUCKED BACK INTO FABRIC HEMS.

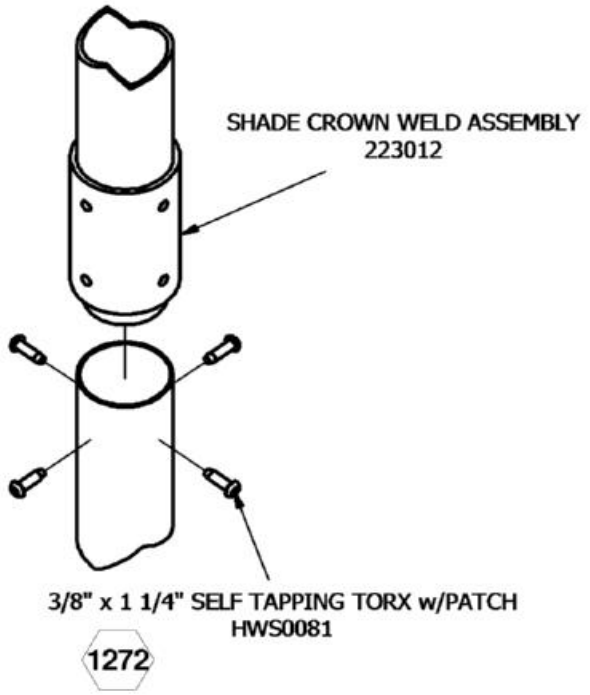


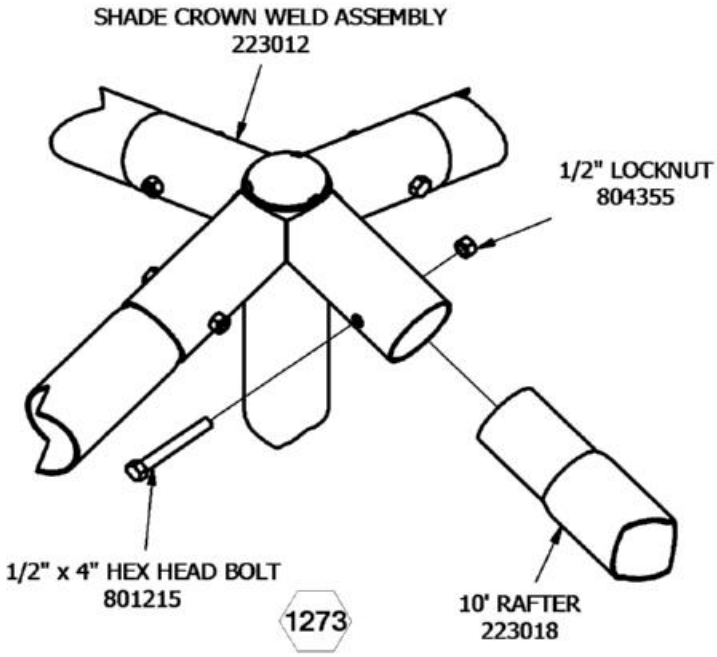
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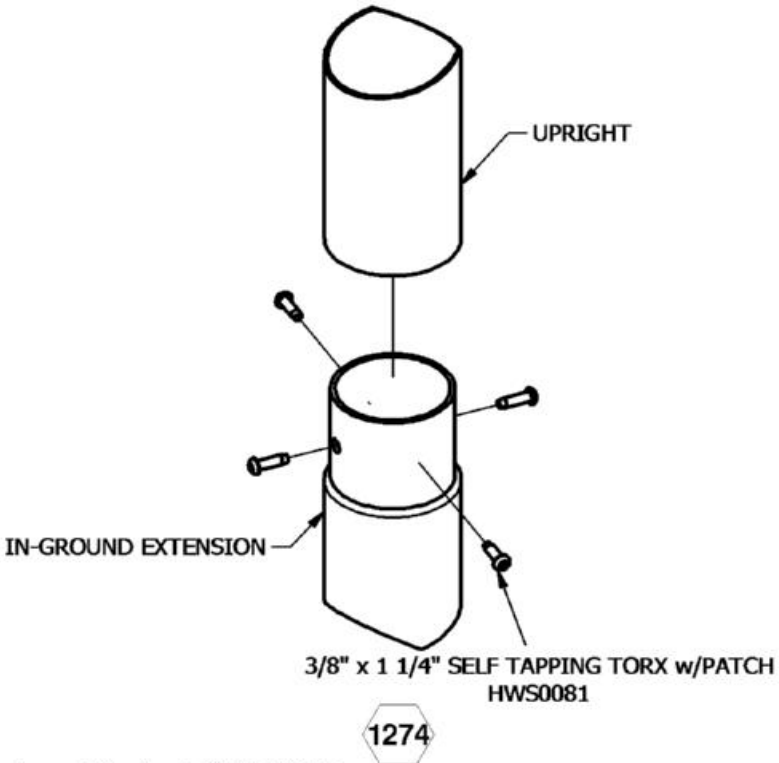


1180

72159 SUPERMAX 10' x 10' SHADE 1' TO 6'
72160 SUPERMAX 10' x 10' SHADE 6'-8" TO 8'







Issued/Revised: 11/2/2023

72167 POLICE ROTOGEN PANEL

Parts List		
DESCRIPTION	QTY	PART NUMBER
PANEL ADAPTER	4	309919
POLICE CAR PANEL	1	317036
POLICE CAR TACK ON	1	317037
SIREN ROTOGEN WHEEL	1	317045
HARDWARE COMPLETE	1	317038
#10 x 1" SELF-TAPPING SCREW	3	809608
1/4" x 3/4" SET SCREW	8	811545
1/4" x 1 1/4" P.B.H.C.S. w/Patch	1	812013
1/4" LOCK WASHER	1	817326
5/16" NYLON INSERT LOCKNUT	1	804352
3/8" x 1 1/4" P.B.H.C.S. w/PATCH	4	812051
3/8" x 1 1/2" P.B.H.C.S. w/PATCH	4	812053
3/8" FLAT WASHER	8	817410
3/8" BARREL NUT	8	804804

Unless Otherwise Specified, All Units of Measure are Each
**Items listed below Hardware Complete line are included with Hardware Complete Number*
Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

INSTALLATION INSTRUCTIONS:

1. Determine which deck is to receive the Police Rotogen Panel. Refer to order Top View.
2. Loosely attach Ring Clamps to Uprights at noted height using information provided in Ring Clamp Installation Sheet.
3. Hook the Panel Adapters onto the Ring Clamps and attach. See Detail 467.
4. Remove the back of Siren Rotogen Wheel, and drill pilot holes for Police Tack On. Attach Police Tack On to backing and reassemble. See Detail 1283.
5. Attach assembled Siren Rotogen Wheel to Police Panel. See Detail 1287.
6. Attach assembled Police Rotogen Panel to Panel Adapters. See Detail 467.
7. When the entire assembly is plumb and level, tighten all fasteners and pour concrete footings within 4" to the top and taper away from support posts to allow water drainage. Allow to cure for at least 48 hours before use.

IMPORTANT! Avoid creating any gaps between the components which fall between 3 1/2" and 9". It has been shown that such gaps create entrapment points which can trap a child and cause injury.

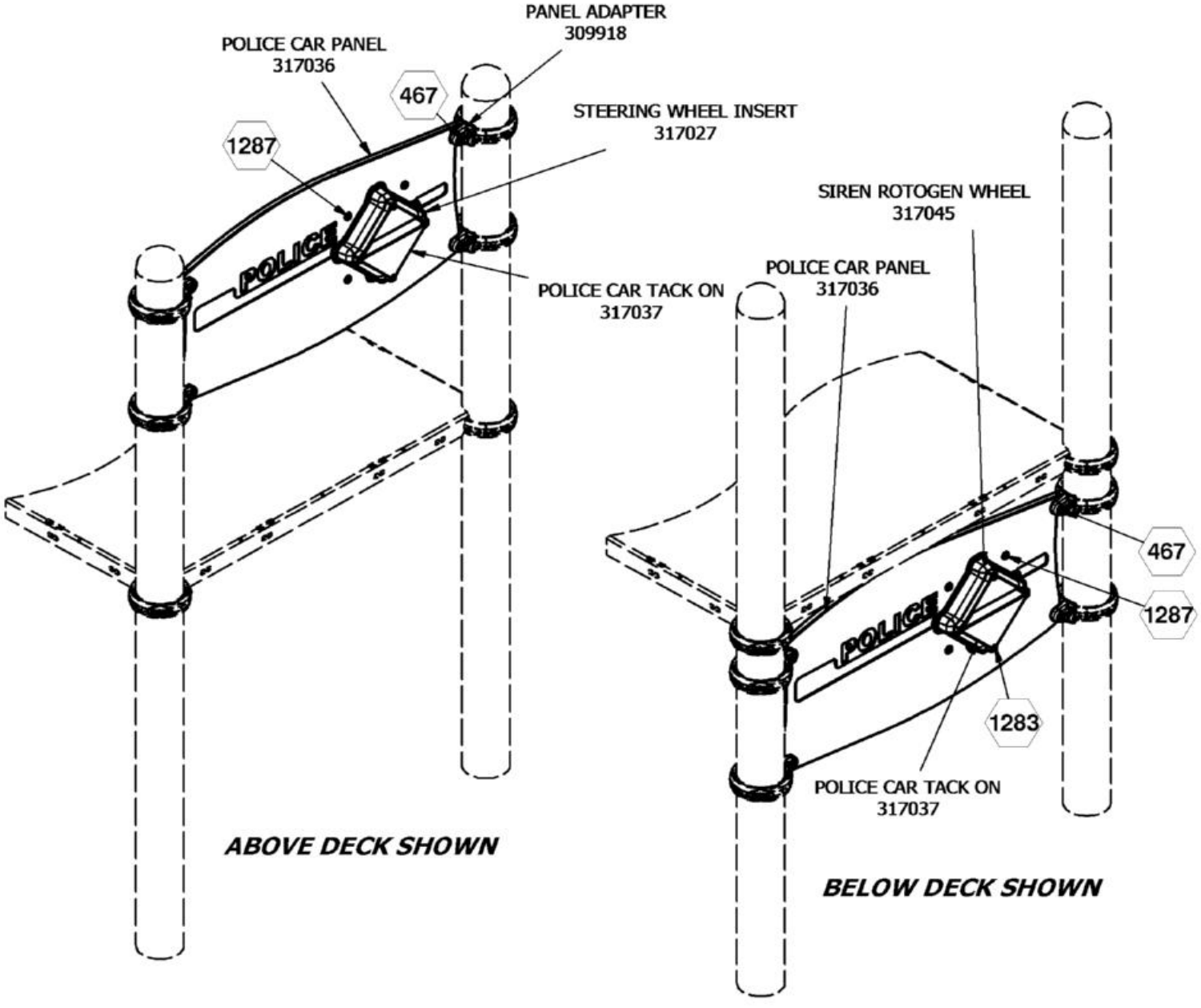
8. When the structure is finished and satisfactory, install Drive Rivets in all clamps to ensure clamps cannot slide down posts. See Ring Clamp subassembly sheets. ***It is very important that all Drive Rivets be installed prior to allowing use of the equipment, as clamps are not designed to support substantial weight without them.*** Install resilient surfacing material within the use zone of play structure in accordance with ASTM specifications F1292 appropriate for the fall height of each structure. Refer to the Safety Guidelines. Eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

SuperMax Play Systems

72167 POLICE ROTOGEN PANEL

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also check all metal parts for rust, paint loss and touch-up if necessary with paint. Check welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

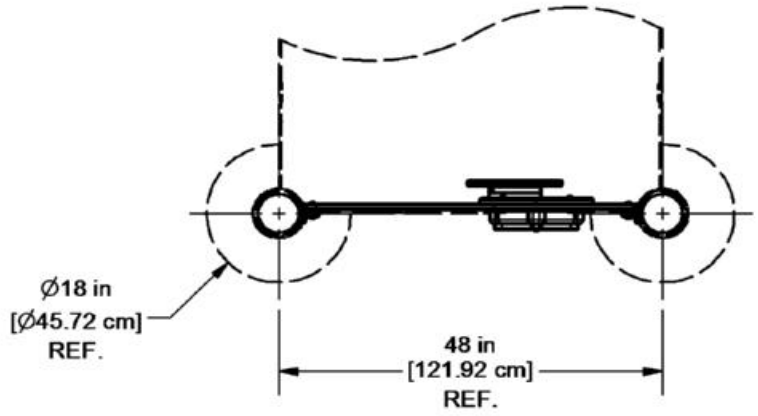


⬡ = INSTALLATION DETAIL

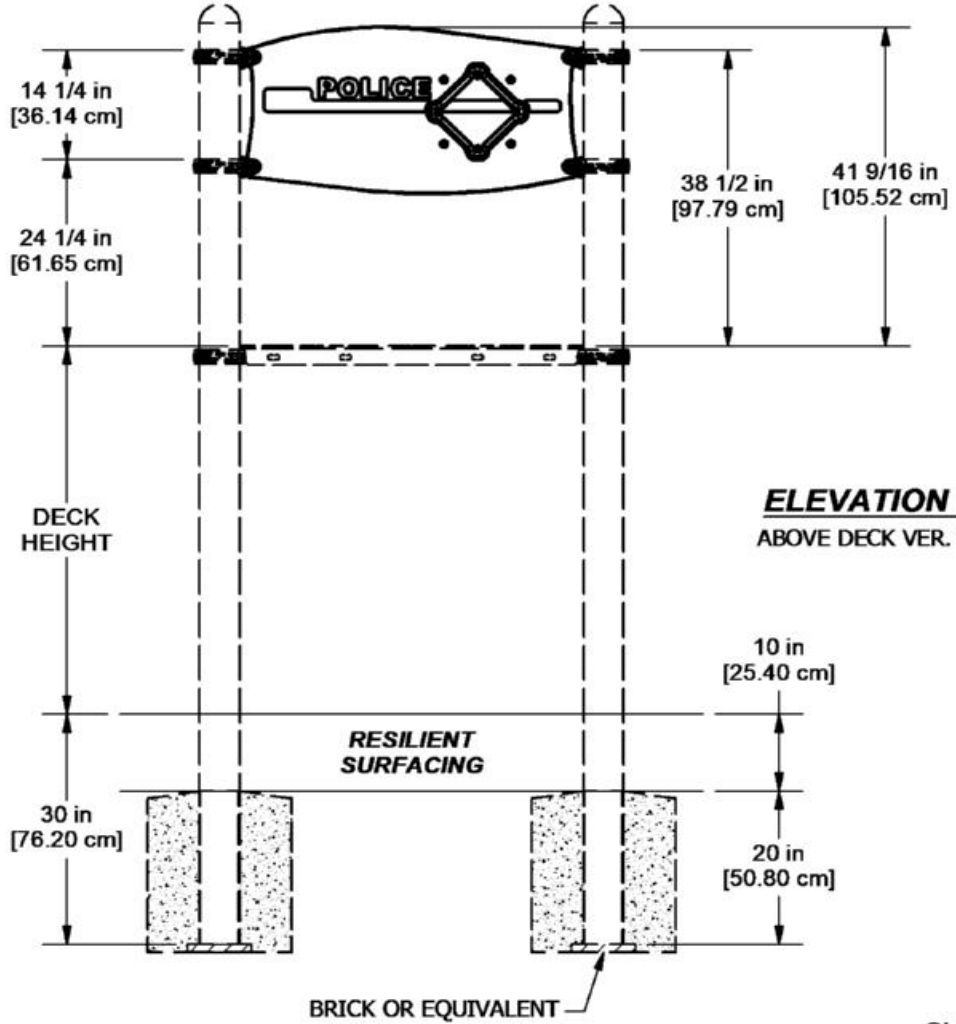
FINISHED ASSEMBLY

COMPONENTS SHOWN IN HIDDEN LINES ARE SOLD SEPARATELY

72167 POLICE ROTOGEN PANEL (ABOVE DECK VER.)



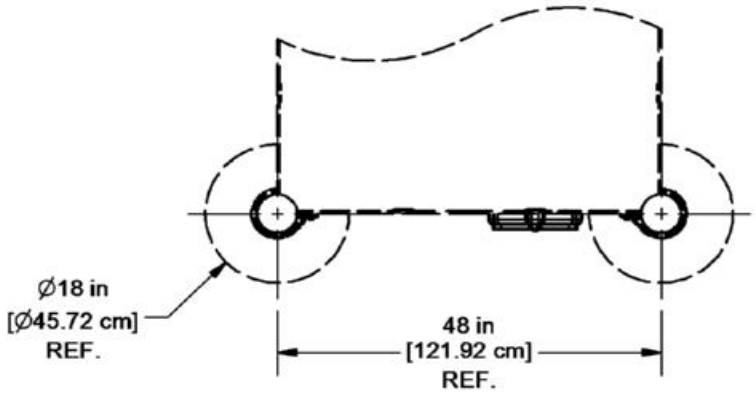
PLAN VIEW



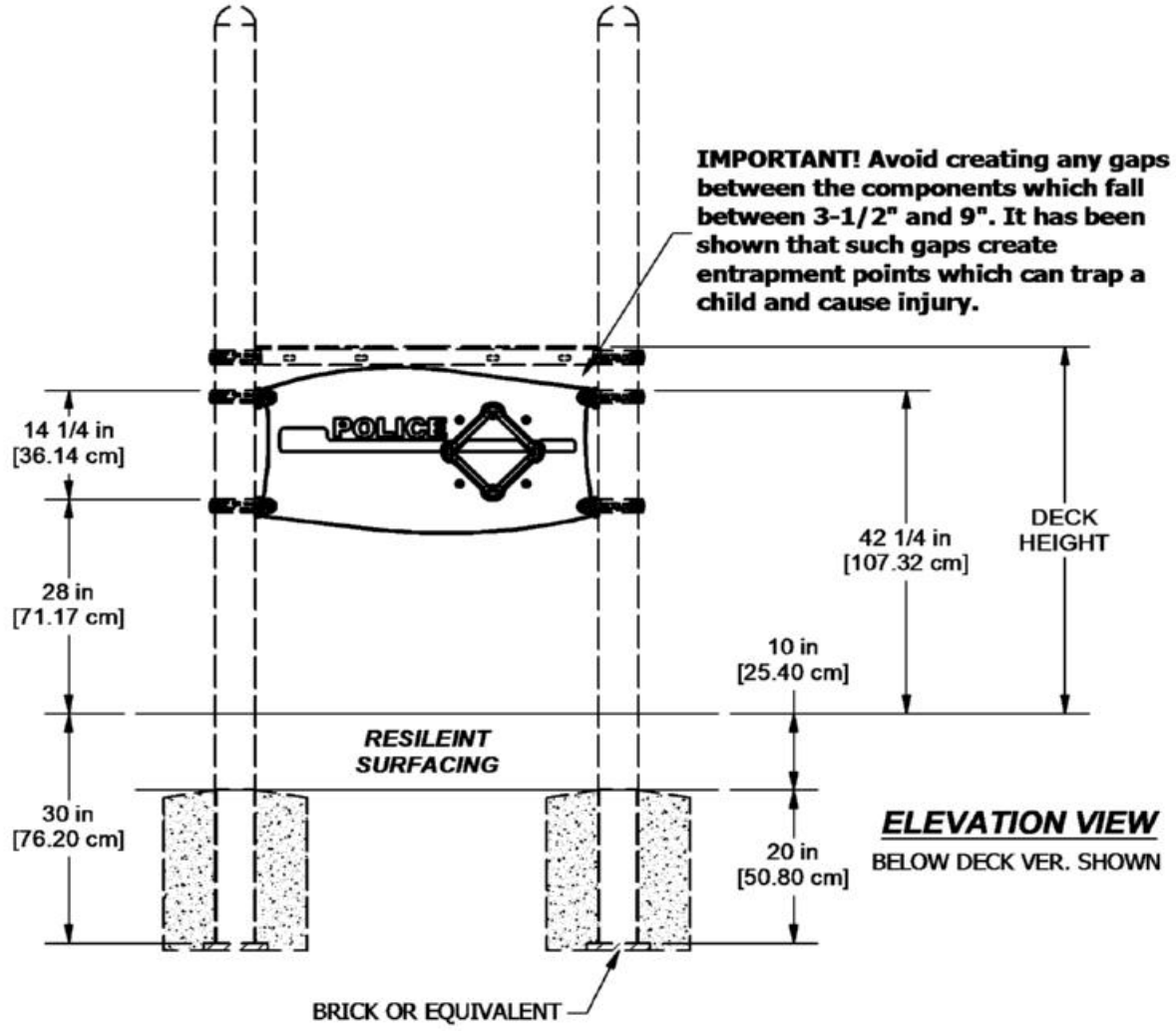
ELEVATION VIEW

ABOVE DECK VER. SHOWN

72167 POLICE ROTOGEN PANEL (BELOW DECK VER.)



PLAN VIEW

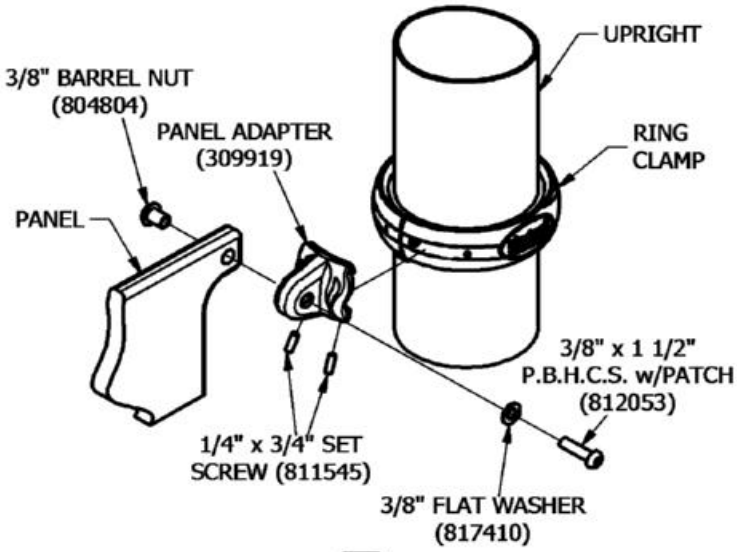


ELEVATION VIEW
BELOW DECK VER. SHOWN

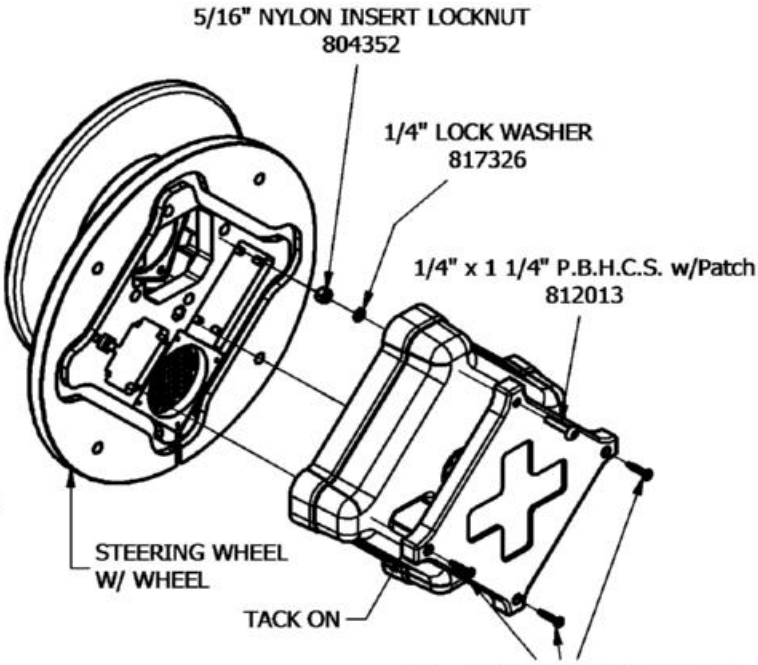
72167 POLICE ROTOGEN PANEL

NOTE: PANEL ADAPTER WILL FIT INTO GROOVE IN TOP OF RING CLAMP AND SECURE WITH SET SCREWS.

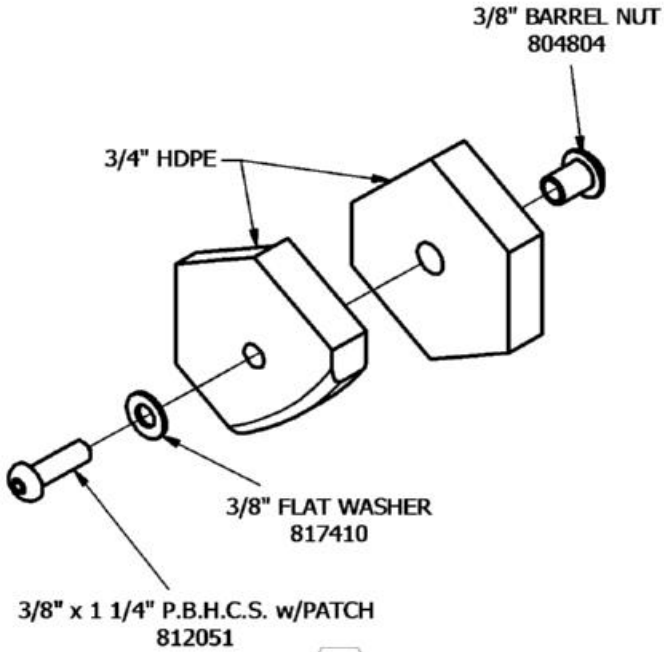
PANEL MUST ATTACH TO THE DECK SIDE OF THE ADAPTER.



467



1283



1287

Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" = 1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Cassie Pruitt
Date:
9/17/24
Quote Number:
821-170093A

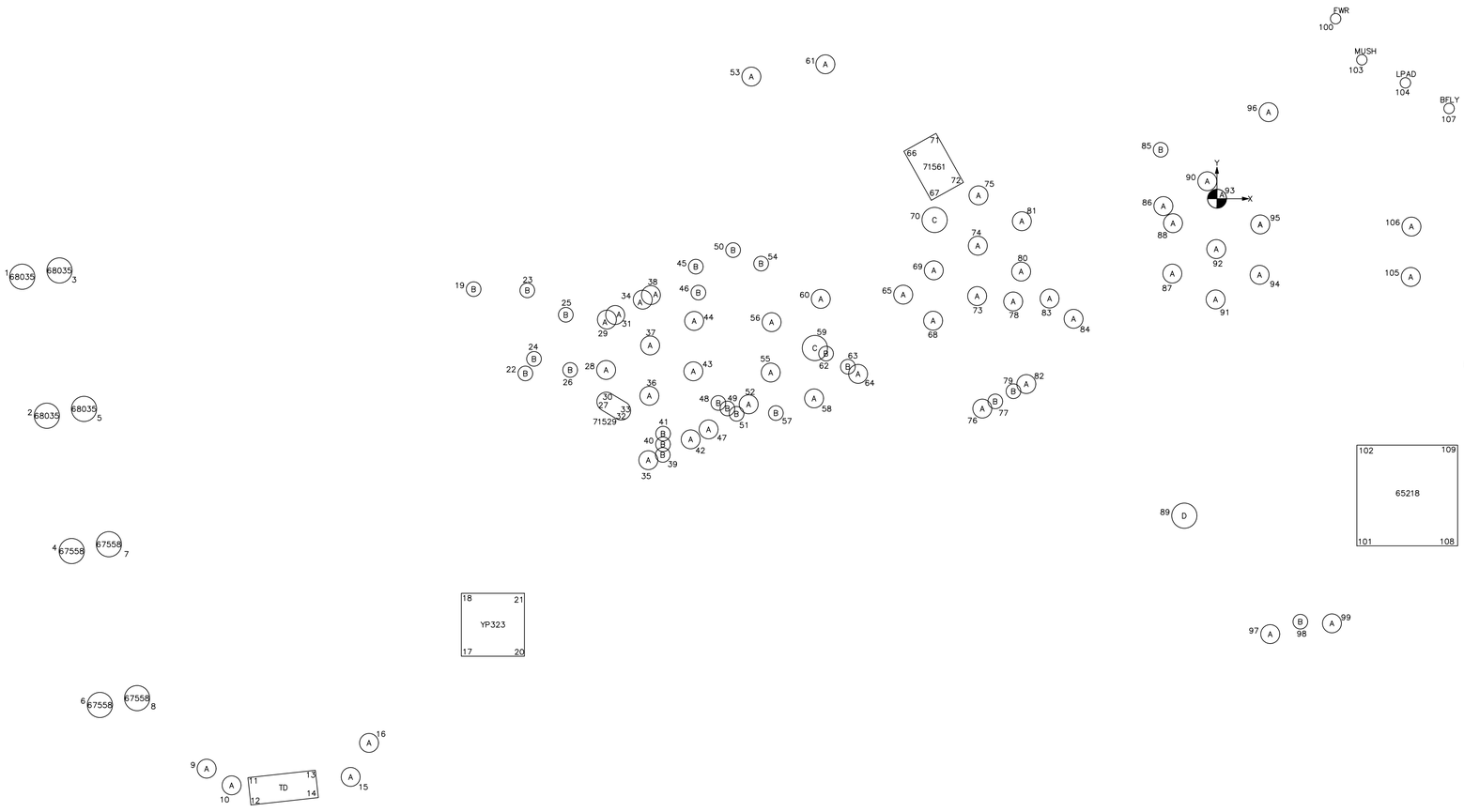
play&park structures
A PLAYCORE Company
544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

Total Play Components	43			User Capacity
Elevated Play Components	18			200-250
Elevated Play Components Accessible by Ramp	10	Req.	0	Critical Fall Height
Elevated Components Accessible by Transfer	18	Req.	3	8'-0"
Accessible Ground Level Components Shown	25	Req.	3	
Different Types of Ground Level Components	5	Req.	3	

SUPERmax PLAY SYSTEMS

Order 4268618

ISO 9001 CERTIFIED



FOOTINGS ORDINATE TABLE			
HOLE	X	Y	DIAG
1	-94'-10"	-6'-2 1/2"	95'-0 1/2"
2	+92'-10 1/2"	-17'-3 1/2"	94'-5 1/2"
3	+91'-10 1/2"	-5'-8 1/2"	92'-0 1/2"
4	-90'-11"	-28'-0 1/2"	95'-1 1/2"
5	-89'-11"	-16'-8 1/2"	91'-5 1/2"
6	-88'-8"	-40'-2 1/2"	97'-4 1/2"
7	+87'-11 1/2"	-27'-5 1/2"	92'-1 1/2"
8	-85'-8 1/2"	-39'-8 1/2"	94'-5 1/2"
9	-80'-2 1/2"	-45'-3 1/2"	92'-1 1/2"
10	-78'-2 1/2"	-46'-7 1/2"	91'-0 1/2"
11	-76'-11"	-45'-11 1/2"	89'-7"
12	-76'-8"	-48'-1 1/2"	90'-6 1/2"
13	-71'-6 1/2"	-45'-4 1/2"	84'-9"
14	-71'-4"	-47'-6 1/2"	85'-8 1/2"
15	-68'-9"	-45'-11 1/2"	82'-8 1/2"
16	-67'-3 1/2"	-43'-2 1/2"	80'
17	+59'-11 1/2"	-36'-4 1/2"	70'-1 1/2"
18	+59'-11 1/2"	-31'-4 1/2"	67'-8"
19	-59'	-7'-2 1/2"	59'-5 1/2"
20	+54'-11 1/2"	-36'-4 1/2"	65'-11"
21	+54'-11 1/2"	-31'-4 1/2"	63'-3 1/2"
22	+54'-10 1/2"	-13'-10 1/2"	56'-7 1/2"
23	-54'-9"	-7'-3 1/2"	55'-2 1/2"
24	-54'-2 1/2"	-12'-8 1/2"	55'-8"
25	-51'-8"	-9'-2 1/2"	52'-6"
26	-51'-4"	-13'-7 1/2"	53'-1 1/2"
27	-48'-10"	-16'-9 1/2"	51'-8"
28	-48'-6"	-13'-7 1/2"	50'-4 1/2"
29	-48'-5"	-9'-7 1/2"	49'-4 1/2"
30	-48'-1"	-15'-5 1/2"	50'-6"
31	-47'-9"	-9'-3 1/2"	48'-8"
32	-47'-8"	-17'-5 1/2"	50'-9 1/2"
33	-46'-11"	-16'-2 1/2"	49'-7 1/2"
34	-45'-7"	-8'-0 1/2"	46'-3 1/2"
35	-45'-1 1/2"	-20'-9 1/2"	49'-8 1/2"
36	-45'-0 1/2"	-15'-8 1/2"	47'-8 1/2"
37	-45'	-11'-8 1/2"	46'-6"
38	-44'-11"	-7'-8 1/2"	45'-7"
39	-44'	-20'-4 1/2"	48'-6"
40	+43'-11 1/2"	-19'-6 1/2"	48'-1 1/2"
41	+43'-11 1/2"	-18'-8 1/2"	47'-9 1/2"
42	-41'-9"	-19'-1 1/2"	45'-11 1/2"
43	-41'-6 1/2"	-13'-8 1/2"	43'-9"
44	-41'-6"	-9'-8 1/2"	42'-7 1/2"
45	-41'-4 1/2"	-5'-5 1/2"	41'-8 1/2"
46	-41'-2"	-7'-5 1/2"	41'-10"
47	-40'-4"	-18'-4 1/2"	44'-4"
48	-39'-7"	-16'-2 1/2"	42'-9 1/2"
49	+38'-10 1/2"	-16'-8 1/2"	42'-3 1/2"
50	-38'-5"	-4'-1 1/2"	38'-7 1/2"
51	-38'-1 1/2"	-17'-1 1/2"	41'-9 1/2"
52	-37'-2"	-16'-4 1/2"	40'-7 1/2"
53	+36'-11 1/2"	9'-8 1/2"	38'-2 1/2"
54	-36'-2"	-5'-2 1/2"	36'-6 1/2"
55	-35'-5"	-13'-9 1/2"	38'
56	-35'-4"	-9'-9 1/2"	36'-8"
57	-35'	-17'-0 1/2"	38'-11 1/2"
58	-32'	-15'-10 1/2"	35'-8 1/2"
59	-31'-11"	-11'-10 1/2"	34'-0 1/2"
60	-31'-5 1/2"	-7'-11 1/2"	32'-5"
61	-31'-1"	10'-7 1/2"	32'-10"
62	-31'-0 1/2"	-12'-3 1/2"	33'-4 1/2"
63	-29'-3 1/2"	-13'-4 1/2"	32'-2 1/2"
64	-28'-6"	-13'-11 1/2"	31'-8 1/2"
65	-24'-11"	-7'-7 1/2"	26'-0 1/2"
66	-24'-10"	3'-8 1/2"	25'-1 1/2"
67	-22'-8"	-1 1/2"	22'-8"
68	-22'-6 1/2"	-9'-8 1/2"	24'-6 1/2"
69	-22'-5 1/2"	-5'-8 1/2"	23'-2 1/2"
70	-22'-5"	-1'-8 1/2"	22'-6"
71	-22'-3 1/2"	5'-2 1/2"	22'-11"
72	-20'-1 1/2"	1'-3 1/2"	20'-2"
73	-19'-0 1/2"	-7'-9 1/2"	20'-7"
74	-19'	-3'-9 1/2"	19'-4 1/2"
75	-18'-11"	2 1/2"	18'-11"
76	-18'-7 1/2"	-16'-8 1/2"	25'-0 1/2"
77	-17'-7"	-16'-1 1/2"	23'-10 1/2"
78	-16'-2"	-8'-2 1/2"	18'-1 1/2"
79	-16'-2"	-15'-3 1/2"	22'-3"
80	-15'-6 1/2"	-5'-9 1/2"	16'-7"
81	-15'-6"	-1'-9 1/2"	15'-7"
82	-15'-1 1/2"	-14'-8 1/2"	21'-1 1/2"
83	-13'-3 1/2"	-7'-11 1/2"	15'-6"
84	-11'-4 1/2"	-9'-6 1/2"	14'-10 1/2"
85	-4'-5 1/2"	3'-10 1/2"	5'-11"
86	-4'-3"	-7 1/2"	4'-3 1/2"
87	-3'-6 1/2"	-5'-11 1/2"	6'-11 1/2"
88	-3'-6"	-1'-11 1/2"	4'
89	-2'-7"	-25'-2 1/2"	25'-4 1/2"
90	-9 1/2"	1'-4 1/2"	1'-7"
91	-1 1/2"	-8'-0 1/2"	8'-0 1/2"
92	-1/2"	-4'-0 1/2"	4'-0 1/2"
93	0"	-1/2"	1/2"
94	3'-4 1/2"	-6'-0 1/2"	6'-11 1/2"
95	3'-5"	-2'-0 1/2"	4'
96	4'-1"	6'-10 1/2"	8'
97	4'-2 1/2"	-34'-7 1/2"	34'-11"
98	6'-7 1/2"	-33'-7 1/2"	34'-3 1/2"
99	9'-1 1/2"	-33'-8 1/2"	34'-11"
100	9'-5"	14'-3 1/2"	17'-1"
101	11'-1 1/2"	-27'-7 1/2"	29'-9 1/2"
102	11'-1 1/2"	-19'-7 1/2"	22'-7"
103	11'-6"	11'-0 1/2"	15'-11"
104	14'-11 1/2"	9'-2 1/2"	17'-6 1/2"
105	15'-4 1/2"	-6'-2 1/2"	16'-7"
106	15'-5"	-2'-2 1/2"	15'-7"
107	18'-5"	7'-1 1/2"	19'-9"
108	19'-1 1/2"	-27'-7 1/2"	33'-3"
109	19'-1 1/2"	-19'-7 1/2"	27'-5"
110	20'-6"	-13'-2 1/2"	24'-4 1/2"

IF FOOTING CONTAINS A COMPONENT NUMBER, REFERENCE THE INSTALLATION MANUAL FOR COMPONENT FOOTING SPECS.

FOOTINGS TABLE			
TYPE	DIAMETER/SIDE	DEPTH	QTY.
A	1'-6" [45.72cm]	2'-6" [76.20cm]	52
B	1'-2" [35.56cm]	2'-6" [76.20cm]	23
C	2'-0" [60.96cm]	4'-0" [121.92cm]	2
D	2'-0" [60.96cm]	2'-6" [76.20cm]	9

It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
IMPORTANT: Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.

Mound Elementary School
455 South Hill Road
Ventura, CA 93003

Play & Park Structures

This play equipment is recommended for children ages:
5-12

Minimum Area Required:
Per Drawing

Scale: 3/16" = 1'-0"
This drawing can be scaled only when in an 24" x 36" format

Drawn By:
Cassie Pruitt
Date:
9/17/24
Quote Number:
821-170093A

play&park structures
A PLAYCORE Company
544 Chestnut Street
Chattanooga, TN 37402
800-727-1907 / www.playandpark.com

Total Play Components	43		
Elevated Play Components	18		
Elevated Play Components Accessible by Ramp	10	Req.	0
Elevated Components Accessible by Transfer	18	Req.	3
Accessible Ground Level Components Shown	25	Req.	3
Different Types of Ground Level Components	5	Req.	3

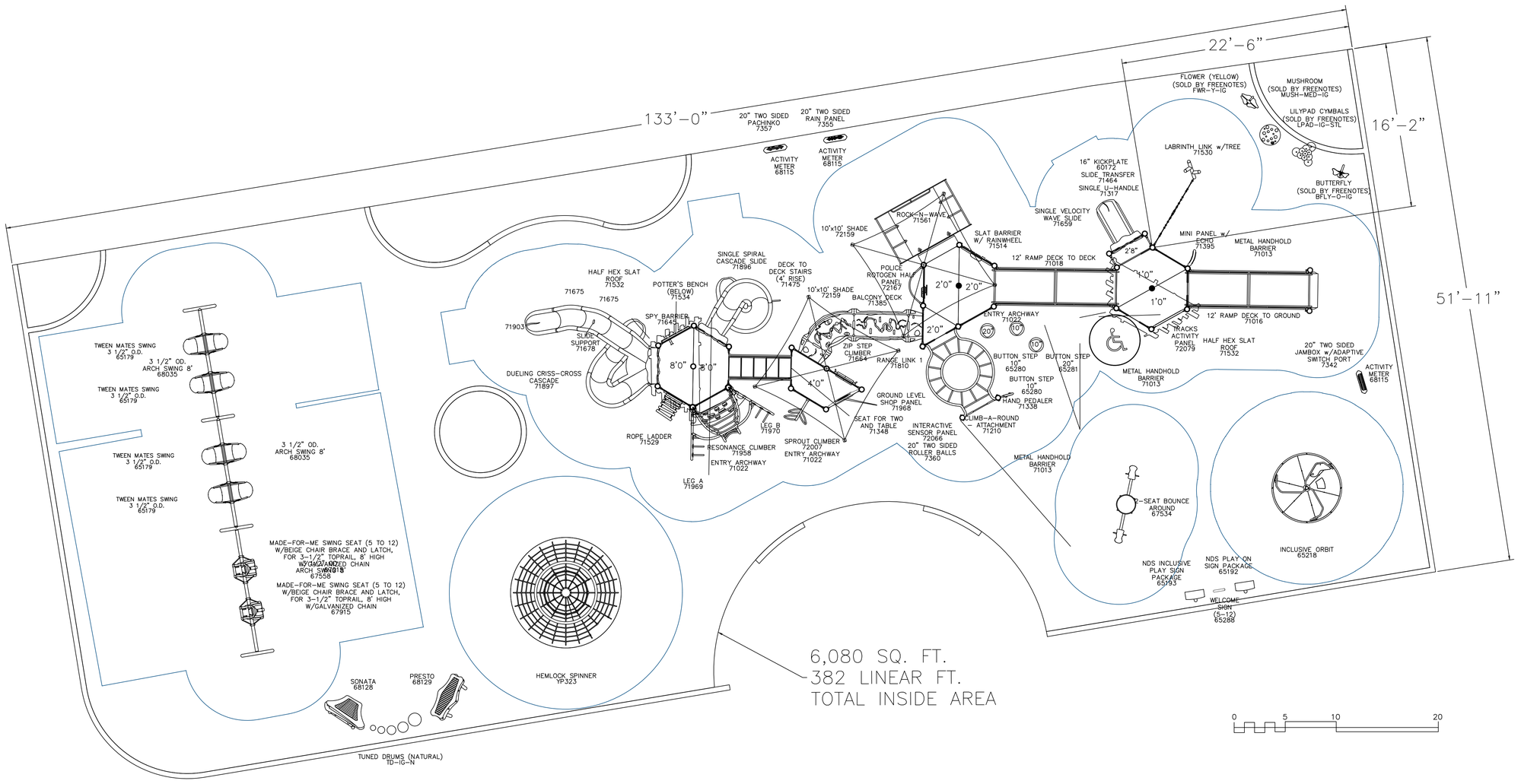
User Capacity
200-250
Critical Fall Height
8'-0"

SUPERmax PLAY SYSTEMS
Freenotes Harmony Park™ A PLAYCORE Company
Parallax CLIMBING SYSTEM

Order 4268618

ISO 9001 CERTIFIED

This equipment is designed for children 5-12 years old



It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
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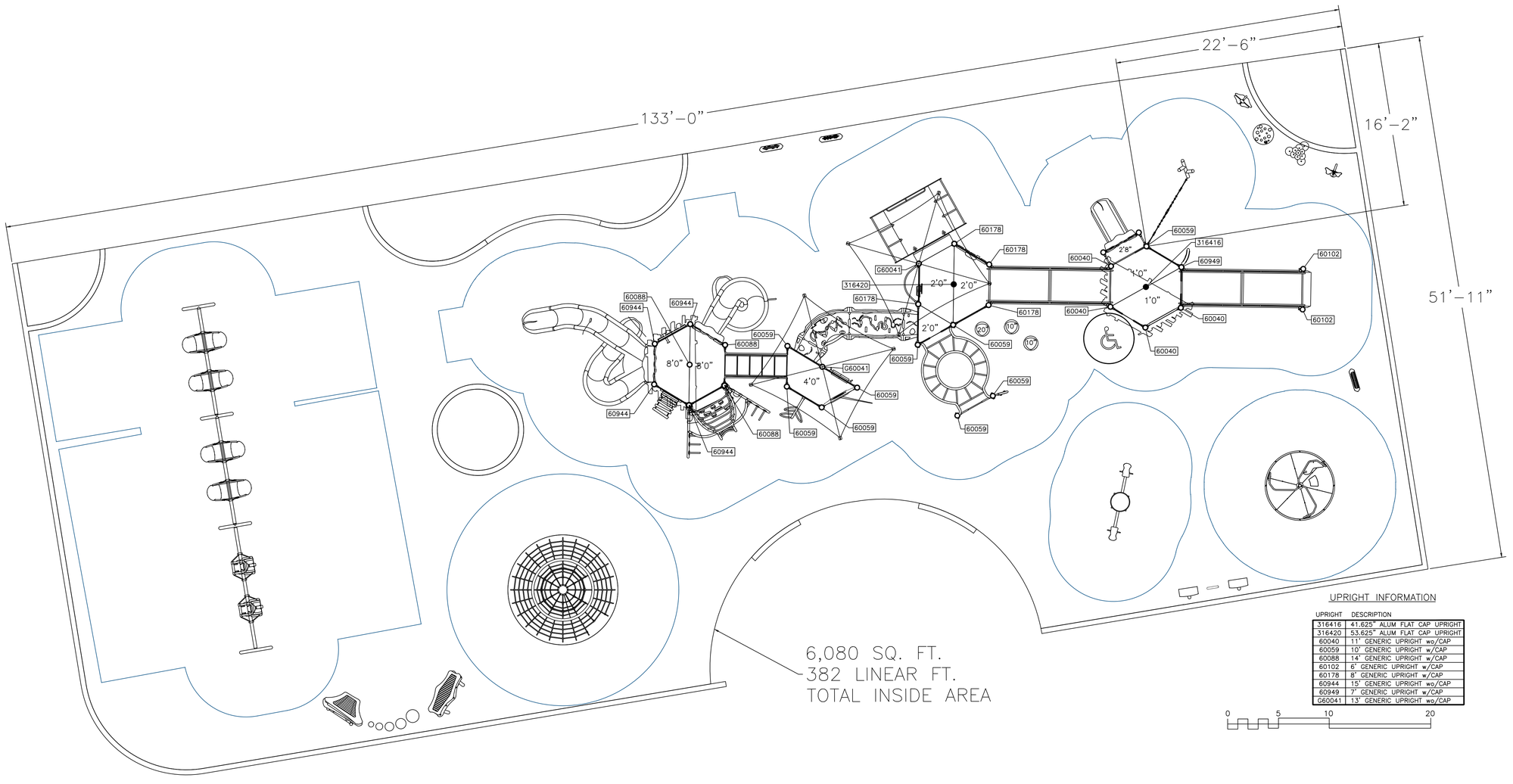
User Capacity
200-250
Critical Fall Height
8'-0"

SUPERmax PLAY SYSTEMS
Freenotes Harmony Park™ A PLAYCORE Company
Parallax CLIMBING SYSTEM

Order 4268618

ISO 9001 CERTIFIED

This equipment is designed for children 5-12 years old



UPRIGHT INFORMATION

UPRIGHT	DESCRIPTION
316416	41.625" ALUM FLAT CAP UPRIGHT
316420	53.625" ALUM FLAT CAP UPRIGHT
60040	11' GENERIC UPRIGHT wo/CAP
60059	10' GENERIC UPRIGHT w/CAP
60088	14' GENERIC UPRIGHT w/CAP
60102	6' GENERIC UPRIGHT w/CAP
60178	8' GENERIC UPRIGHT w/CAP
60944	15' GENERIC UPRIGHT wo/CAP
60949	7' GENERIC UPRIGHT w/CAP
G60041	13' GENERIC UPRIGHT wo/CAP

0 5 10 20

It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment.
Top View drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction.
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