



10 51 13 – Metal Lockers

DIVISION 10 - Specialties

STATEMENT OF PURPOSE & BACKGROUND

- Scope:
 - Where shown, furnish and install steel locker units with hinged doors, closures, sloped tops, filler panels, accessories and hardware, including locker base and finished end panels. Concrete/masonry bases, wood furring, blocking, or trim as may be required by drawings are covered in other sections of the specification.
- Statement of goals:
 - Provide a consistent, high quality storage option that provides adequate storage, is durable and easily maintained.
- Revision history of section:
 - 03/13/13
 - 10/6/15
 - 02/22/19
 - 02/02/21

SELECTION AND APPLICATION CRITERIA

- Sizes noted below are to be standardized on locker replacement projects to the greatest extent possible.
- At least 5% of the total lockers shall be accessible per ADA. Distribute throughout.
- Confirm quantities and configurations with SPPS Project Manager.
- See Section 10 51 26 Plastic Lockers for certain wet/humid locations.

Specified Use	Locker Type	Locker Width	Ventilation	Door Height	Configuration
Elementary (verify grade levels)	Welded	12 inches	Louvers	48 inches	Single*
Secondary	Welded	12 inches	Louvers	60 inches -- 36 inches --	Single Tiered** Double Tiered**
Phy.Ed. Locker Rooms	Welded	12 inches	Louvers	60 inches	Single
Athletic/Team (Use plastic lockers at pool areas) See section 10 51 26.	Heavy-Duty, Fully Louvered	18 inches	Expanded Metal and Diamond Perforated	72 inches	Single and Double Tiered***
Kitchen/Custodial staff: Use plastic lockers. See section 10 51 26.	Solid Plastic	12 inches	Louvers	36 or 72 inches	Single or double tiered

* If the Elementary student population requires additional lockers and space is limited, the configuration can be changed to a double-tier system at a door height of 30 inches, but this should be avoided as much as possible.

* Coat storage for younger grades will generally be a millwork cubby system, preferably outside the classrooms. Allow adequate corridor/wall space adjacent to these classrooms. Verify with SPPS Project Manager which grade levels are to receive cubbies vs. lockers.

** If the Secondary student population requires additional lockers and space is limited, the configuration can be a double-tier system at a door height of 36 inches. This may be utilized for replacement lockers in older buildings with existing 72" high locker recesses. Depth to be

12" typical. Existing buildings or special conditions may require deviations from these sizes. All student lockers shall be 12" wide typical (except as noted for athletic/team lockers). Maintain consistent locker sizes throughout the building as much as possible. In older existing buildings scheduled to receive new lockers, existing corridor locker recesses may be furred down as needed to match the specified heights of new lockers noted above where space and quantities allow. Verify existing conditions with SPPS Project Manager.

*** Athletic lockers should be a mix of single and double-tiered types. Quantities to be determined per site with Owner based on student population and specific needs.

OUTLINE SPECIFICATION

- Part 1 General
 - Warranty
 - Locker manufacturer shall warrant the lockers for the lifetime use of the original purchaser from date of shipment. Warranty shall include all defects in material and workmanship, excluding finish, vandalism and improper installation.
 - Numbering
 - The locker numbering sequence shall match existing where applicable, or shall be provided by the approving authority and noted on approved shop drawings.
- Part 2 Products
 - Acceptable Manufacturer(s):
 - Lyon: HD Locker
 - Olympus: Hercules
 - DeBourgh Manufacturing Co.
 - Art Metal Products
 - Republic
 - Equivalent manufacturers **approved, in writing, in advance, by the Architect**, may be substituted in accordance with the provisions of the Contract, subject to compliance with requirements.
 - Fabrication, General:
 - Locker Construction
 - Lockers to be All Welded unibody construction with exposed welds sanded smooth.
 - No bolts, screws or rivets used in assembly of locker units.
 - Ship lockers set-up, ready to be anchored in place in accordance with manufacturer's instructions.
 - **Locker Type 1 – Student Lockers (Corridor and Phy. Ed. Use):**
 - Body of Lockers
 - Exterior sides, Tops, Bottoms, Tier Dividers and Fascia: Constructed of 16 gauge domestic cold rolled sheet steel for maximum durability.
 - Backs: Solid sheet of 18 gauge cold rolled sheet steel welded to frames of sides and intermediate partitions.
 - Shelves and Intermediate Partitions: Constructed of 16 gauge cold rolled sheet steel welded to sides and intermediate partition construction. Shelves provided in lockers 60 inches and taller, located to provide a minimum of 12 inches clearance.
 - Continuous Door Strike:
 - Tier dividers, tops and bottoms constructed of 16 gauge to provide four-sided, continuous door strike for a secure, sanitary and intrusion-free locker while door is in closed position.
 - Doors

- Elementary/Secondary Student Lockers:
 - Doors to be 14 gauge steel, formed outer panel with double bends on both sides and a single bend on top and bottom with 18 gauge steel formed stiffener panel.
 - Door stiffener runs top to bottom on hinge side of door and securely welded to outer door to form a reinforced channel for additional torque-free strength and sound reduction when closing door.
 - Door Ventilation: Louvered doors with six louvers at the top and bottom of the formed door.
 - Latching:
 - Multi Point with Recessed Gravity Latch
 - Door containing stainless steel cup recessed into formed door, to accommodate either a padlock or built-in combination lock.
 - 12 gauge steel finger lift mechanism.
 - Spring activated nylon slide latching enclosed in steel latch channel allows closing of door while padlock or built-in lock is in position.
 - Rubber bumpers riveted to door stops for silent operation.
 - Provide ADA compliant handle or latch where required.
 - Five percent of total lockers to be ADA compliant.
 - Hinges:
 - Elementary/Secondary Student Lockers:
 - 16 gauge continuous piano hinge on the right side of the opening.
 - Hinges welded to door and riveted to locker frame.
 - Slope Tops:
 - Provide 18 gauge all welded sloped top with 25 degree pitch, attached at factory with concealed fasteners, at non-recessed locker locations. Sloped top to be in addition to standard 16 gauge flat top.
 - Closed Bases:
 - At corridor lockers, provide 4 inch high welded steel base enclosed on all four sides, securely welded to locker bottom.
 - 4 inch high steel “Z” base may be specified at corridor lockers.
 - Steel base is not required where replacement lockers are to be installed in existing recesses with existing raised base.
 - Conditions in older existing buildings, such as coved terrazzo floor base, may require customized locker base details.
 - Filler Panels: Manufacturer’s standard fabricated from 18 gauge solid steel finished to match lockers.
 - **Locker Type 2 – Athletic / Team Lockers:**
 - Body of Lockers
 - Sides and Intermediate Partitions: Constructed of 1-inch by 1-inch by 1/8 inch steel angle iron frame with 3/4 inch, 13 gauge, bond sheared, flattened expanded metal welded to steel angle frames. Formed sheet steel locker frames are not acceptable.
 - Exposed End Panels: Constructed of 1 inch by 1 inch by 1/8 inch steel angle iron frame with 16 gauge sheet steel welded to steel angle frame.
 - Backs: Solid sheet of 18 gauge cold rolled sheet steel welded to frames of sides and intermediate partitions.
 - Shelves/Dividers: 16 gauge cold rolled sheet steel welded to side and intermediate partition construction. Shelves provided in lockers 60 inches and taller, located to provide minimum of 12 inches clearance.
 - Doors

- Fabricated from single sheet prime 14 gauge steel, with 1 inch by 1 inch by 1/8 inch angle iron frame.
 - Door Ventilation – Diamond perforation.
 - Latching
 - Recessed gravity latch similar to Locker Type 1 above, to accommodate either a padlock or built-in combination lock.
 - Hinges
 - Hinges to be 3 inch, five knuckle, 14 gauge heavy-duty fast pin, welded to both door and frame.
 - Locker doors 42 inches high or less shall have 2 hinges.
 - Doors over 42 inches shall have three hinges.
 - Base:
 - Provide 4" high poured concrete base at athletic lockers where indicated on drawings, or:
 - Provide 4" high, 14 gauge welded steel base enclosed on all four sides securely welded to locker bottom.
 - Finish:
 - Complete locker unit to be thoroughly cleaned, phosphatized and sealed.
 - Finish to be baked pure TGIC polyester powder coat with a minimum 2-3 mil thickness.
 - Locker colors shall be chosen by Architect from manufacturer's full range of standard colors.
 - Locker Accessories
 - Hooks:
 - Hooks to be heavy duty forged steel with ball ends and zinc plated.
 - Provide two single wall hooks and one double ceiling hook in each locker opening 20 inches or taller.
 - Numbering:
 - Furnish each locker with polished aluminum number plate with etched black numbers.
 - Locate number plate near center of each door.
 - Owner to furnish numbering sequence.
 - Locks:
 - In general, no locks to be provided at elementary sites. Verify with Owner.
 - Student Lockers at Secondary sites shall accommodate padlock (furnished by Owner) or Master Lock model #1652 built-in combination lock. Verify with SPPS Project Manager which lock type will be used.
 - Athletic/Team lockers shall accommodate padlock (furnished by Owner) or Master Lock model #1652 or #1670 built-in combination lock. Verify with SPPS Project Manager which lock type will be used.
 - Locker Room Benches:
 - Bench tops to be made of butcher block, maple hardwood 1-1/4 inches thick and 9-1/2 inches wide. Apply double coat of satin-gloss sealer for protection. Solid plastic HDPE tops 1-1/2" thick may also be specified.
 - Bench Pedestals: Heavy duty cast iron bell shaped base with a diameter of 7-3/4 inches threaded for 1-1/2 inch pipe. Secure pedestal to floor with a 1/2 inch by 5-1/2 inch concealed concrete anchor. Overall seat height to be nominal 18 inches. Color to be selected from standard range.
- Part 3 Execution
 - Per Consultant and / or manufacturer specification.

End of Section