

SECTION 08 41 13 - ALUMINUM FRAMED ENTRANCES AND STOREFRONTS

PRODUCT REQUIREMENTS

- A. Storefront Systems: Provide storefront systems from a manufacturer below or approved equal.
1. Triple-Art Aluminum by Kawneer
2. VIK-YES 41-T
3. For Ingot Glass Use VIK-YES 40-50T
B. Design Standards: Aluminum-framed entrances and storefronts shall withstand movements of supporting structure including, but not limited to, story drift, wall, column, horizontal, long-term creep, and deflection from uniformly distributed and concentrated loads.
Structural Loads:
1. Wind Loads: As Indicated on Drawings.
D. Materials
1. Aluminum: Alloy and temper furnished by manufacturer for type of use and finish conditions as specified.

- 2. Gasketing: Provide and install factory gasketing in head and jamb to control air and reduce sound and exterior noise from interior. Gasketing shall be aesthetically pleasing and functionally acceptable to the Architect.
3. Thermal Break: Manufacturer's standard barrier free for the door operation. Finish to match exterior finish.
4. Mulkon Stabilizer: Provide manufacturer's standard mulkon stabilizer that prevents doors from being pulled open or closed.
5. Edge Detail: Provide aluminum extrusions with adjustable stop finished doors. At all edges, provide sliding window/door weatherstripping against threshold and door edge.
6. Provide factory built-in weatherstripping in bottom rail, adjustable for contact with threshold. Gasketing shall match finish of the glass.
7. Provide factory built-in weatherstripping in top rail, adjustable for contact with threshold. Gasketing shall match finish of the glass.
8. Provide heavy-duty rubber weatherstripping in side rails of exterior doors.
9. Provide appropriate flashing, sealing, and drainage of the top of all entrances to prevent water and moisture entry into the building. Show and identify details on shop drawings.
H. Framing System: Unless otherwise indicated, all framing members shall have a maximum face dimension of 2 inches and a depth of 1-1/2 inches.
I. Entrance Door Frames: Provide tubular and channel frame entrance doorframes assemblies, as indicated, with window and door frames in accordance with manufacturer's standards.
J. Controls and Accessories: Provide controls and accessories for entrance doors as specified. When automatic door operators are to be provided, entrance door frames shall be completely compatible with the operator as specified. Frames shall accept and house the operator for a coordinated installation. Installation with operator shall be neat and unobtrusive.
K. Heavy Duty Swing Doors: Shall be based on Model 50H Heavy Duty Swing Door by VIK or a reviewed equivalent. Provide swing doors with the same safety as that for the storefront. For Impact Resistant doors use VIK Model 50H.

TESTING STANDARDS

- A. Structural: Test according to ASTM E 330 as follows:
1. When tested for positive and negative wind-load design pressures, assemblies are not to exhibit deflection exceeding 1.57 inches (40 mm).
2. When tested for 150 percent of positive and negative wind-load design pressures, assemblies, including anchorage, are not to exhibit material failure, structural distress, or permanent deformation in excess of 2 percent of span.
B. Air Infiltration: Test according to ASTM E 283 for infiltration as follows:
1. Fixed Framing and Glazing:
a. Maximum air leakage of 0.03 L/sq ft (0.30 L/sq m) at a static-air-pressure differential of 1.57 inches (40 Pa).
2. Entrance Doors:
a. Pair of Doors: Maximum air leakage of 1.0 cfm/sq ft (0.58 l/sq m) at a static-air-pressure differential of 1.57 inches (40 Pa).
b. Single Doors: Maximum air leakage of 0.5 cfm/sq ft (0.254 l/sq m) at a static-air-pressure differential of 1.57 inches (40 Pa).
C. Water Penetration Under Static Pressure: Test according to ASTM E 331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas when tested according to a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 2.54 inches (65 Pa).
D. Windborne Debris Impact Resistance: Pass missile-impact and cyclic-pressure tests when tested according to ASTM E 1886.

FINISHES

- A. Comply with MAAM "Metal Finishes Manual" for recommendations relative to application and coordination of finishes. Architect will select a finish type and color from one of the following available full range of standard and custom finishes and colors:
1. High-Performance Enamel Coating System: Fluoropolymer 2-Coat Coating System: Manufacturer's standard 2-Coat Coating System composed of specialty formulated initiative primer and fluoropolymer color coat consisting of not less than 70 percent polyvinylidene fluoride vinyl weight, complying with AAIA 6012. Color as selected by the Architect from full range of available standard and custom colors and finishes.
2. Anodized Finish: Electrolytic coating with a hard organic seal coat complying with AAIA 6122. Color as selected by the Architect from full range of available standard and custom colors.

SUBMITTALS

- A. Product data for each aluminum entrance and storefront system required, including Manufacturer's standard details and fabrication methods, data on finishes, hardware and accessories, and replacement parts for maintenance and clearing of entrance frames.
B. Shop drawings for each aluminum entrance and storefront system required, prepared by the manufacturer.
C. Submit samples of each specified color and finish.
D. Test Reports: Provide certified test reports to be included in independent test laboratory showing that specified systems comply with specified independent test in accordance with specified test procedures and comply with performance criteria, parameters, and characteristics indicated.

QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain systems in this section from same supplier of interior aluminum storefront system required for this project from one source and from a single manufacturer to ensure consistency and uniformity of color, finish, and quality. Comply with manufacturer's instructions and recommendations for installation. Set units plumb, level and to line, without any or lack of framing members, doors, and panels. Install components in proper alignment and orientation to established true line and grade. Provide proper support and anchor security in place.
WARRANTY
A. General Warranty: Manufacturer's [bracketed] agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements of that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 5 years from date of Substantial Completion.
B. Special Finish Warranty: Standard finish as in manufacturer's agreement to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Warranty Period: 10 years from date of Substantial Completion.

END OF SECTION 08 41 13

SECTION 08 51 13 - ALUMINUM WINDOWS

PRODUCT REQUIREMENTS

- A. Product Standards: Comply with AAIA/AMCA/ANSI 101A, E3, 2444K as follows and minimum standards of performance, materials, accessories, accessories, and fabrication unless more stringent requirements are indicated.
1. Window Certification: AAIA certified with label attached to each window.
B. Performance Class and Grade: AAIA/AMCA/ANSI 101A, E3, 2444K as follows.
1. Minimum Performance Class: AIV
2. Minimum Performance Grade: 40
C. Thermal Transmittance: Conforms to NFRC 10 maximum window U-factor and air leakage in the product's climate zone.
D. Solar Heat-Gain Coefficient (SHGC): Conforms to NFRC 200 maximum window U-factor and SHGC in the product's climate zone.
E. Condensation-Resistance Factor (CRF): Provide aluminum window tested for thermal performance according to AAIA 5053, showing a CRF of 2.
F. Thermal Movement: Provide aluminum windows, including anchorage, that allow for thermal movements resulting from the building movement (range) to prevent and reduce the potential for stresses to prevent thermal cracking. Provide aluminum windows with expansion joints, sealants, fasteners, and other detrimental details. Base engineering calculation on surface temperature of window with sealant joint and rigidly in-situ sealant.
1. Temperature Change: 120 deg F ambient, 180 deg F material surface.
G. Windborne Debris Impact Resistance: Pass missile-impact and cyclic-pressure tests when tested according to ASTM E 1886.
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MANUFACTURERS

- A. Fixed Windows: Provide storefront systems from a manufacturer below or approved equal.
1. M-500 Series Windows by Wipac

ALUMINUM WINDOWS

- A. Operation: Types As Indicated on Drawings.
B. Panels and Sashes: Aluminum extrusions complying with AAIA/AMCA/ANSI 101A, E3, 2444K.
1. Thermally Improved Construction: Fabricate frames, sashes, and mullions with an integral thermal break.
2. Thermal Break: Provide aluminum extrusions with adjustable stop finished doors. At all edges, provide sliding window/door weatherstripping against threshold and door edge.
3. Provide factory built-in weatherstripping in bottom rail, adjustable for contact with threshold. Gasketing shall match finish of the glass.
4. Provide heavy-duty rubber weatherstripping in side rails of exterior doors.
5. Provide appropriate flashing, sealing, and drainage of the top of all entrances to prevent water and moisture entry into the building. Show and identify details on shop drawings.
H. Framing System: Unless otherwise indicated, all framing members shall have a maximum face dimension of 2 inches and a depth of 1-1/2 inches.
I. Entrance Door Frames: Provide tubular and channel frame entrance doorframes assemblies, as indicated, with window and door frames in accordance with manufacturer's standards.
J. Controls and Accessories: Provide controls and accessories for entrance doors as specified. When automatic door operators are to be provided, entrance door frames shall be completely compatible with the operator as specified. Frames shall accept and house the operator for a coordinated installation. Installation with operator shall be neat and unobtrusive.
K. Heavy Duty Swing Doors: Shall be based on Model 50H Heavy Duty Swing Door by VIK or a reviewed equivalent. Provide swing doors with the same safety as that for the storefront. For Impact Resistant doors use VIK Model 50H.

TESTING STANDARDS

- A. Structural: Test according to ASTM E 330 as follows:
1. When tested for positive and negative wind-load design pressures, assemblies are not to exhibit deflection exceeding 1.57 inches (40 mm).
2. When tested for 150 percent of positive and negative wind-load design pressures, assemblies, including anchorage, are not to exhibit material failure, structural distress, or permanent deformation in excess of 2 percent of span.
B. Air Infiltration: Test according to ASTM E 283 for infiltration as follows:
1. Fixed Framing and Glazing:
a. Maximum air leakage of 0.03 L/sq ft (0.30 L/sq m) at a static-air-pressure differential of 1.57 inches (40 Pa).
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a. Pair of Doors: Maximum air leakage of 1.0 cfm/sq ft (0.58 l/sq m) at a static-air-pressure differential of 1.57 inches (40 Pa).
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C. Water Penetration Under Static Pressure: Test according to ASTM E 331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas when tested according to a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 2.54 inches (65 Pa).
D. Windborne Debris Impact Resistance: Pass missile-impact and cyclic-pressure tests when tested according to ASTM E 1886.

FINISHES

- A. Comply with MAAM "Metal Finishes Manual" for recommendations relative to application and coordination of finishes. Architect will select a finish type and color from one of the following available full range of standard and custom finishes and colors:
1. High-Performance Enamel Coating System: Fluoropolymer 2-Coat Coating System: Manufacturer's standard 2-Coat Coating System composed of specialty formulated initiative primer and fluoropolymer color coat consisting of not less than 70 percent polyvinylidene fluoride vinyl weight, complying with AAIA 6012. Color as selected by the Architect from full range of available standard and custom colors and finishes.
2. Anodized Finish: Electrolytic coating with a hard organic seal coat complying with AAIA 6122. Color as selected by the Architect from full range of available standard and custom colors.

SUBMITTALS

- A. Product data for each aluminum entrance and storefront system required, including Manufacturer's standard details and fabrication methods, data on finishes, hardware and accessories, and replacement parts for maintenance and clearing of entrance frames.
B. Shop drawings for each aluminum entrance and storefront system required, prepared by the manufacturer.
C. Submit samples of each specified color and finish.
D. Test Reports: Provide certified test reports to be included in independent test laboratory showing that specified systems comply with specified independent test in accordance with specified test procedures and comply with performance criteria, parameters, and characteristics indicated.

QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain systems in this section from same supplier of interior aluminum storefront system required for this project from one source and from a single manufacturer to ensure consistency and uniformity of color, finish, and quality. Comply with manufacturer's instructions and recommendations for installation. Set units plumb, level and to line, without any or lack of framing members, doors, and panels. Install components in proper alignment and orientation to established true line and grade. Provide proper support and anchor security in place.
WARRANTY
A. General Warranty: Manufacturer's [bracketed] agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements of that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 5 years from date of Substantial Completion.
B. Special Finish Warranty: Standard finish as in manufacturer's agreement to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Warranty Period: 10 years from date of Substantial Completion.

END OF SECTION 08 51 13

SECTION 08 71 00 - DOOR HARDWARE

PRODUCT REQUIREMENTS

- A. Provide doors, locksets, and exit devices by the same manufacturer. Use Habitat Standard type as a basis of design. Products by other manufacturers may be substituted for substitution upon receipt of samples.
B. Furnish with finish hardware as necessary, screws, and other fasteners of suitable size and type to anchor the hardware in place for a lock in order to use. Design of all fastenings shall be approved by the Architect for substitution.
C. All applicable door hardware shall be satisfactorily tested for and meet all requirements for performance as specified in the hardware schedule.
D. Finish plug-type (not adhesive type) door silleners at all openings without interfering with normal operation of the door.
E. All hardware shall be tested for fire resistance in accordance with NFPA 254.

FINISHES

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
B. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
C. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.

TESTING STANDARDS

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
B. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.

LOCKSETS

- A. All interior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome) and exterior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome).
B. All locksets shall be tested for fire resistance in accordance with NFPA 254.
C. All locksets shall be tested for fire resistance in accordance with NFPA 254.

EXIT DEVICES

- A. All exit devices shall be tested for fire resistance in accordance with NFPA 254.
B. All exit devices shall be tested for fire resistance in accordance with NFPA 254.

TESTING STANDARDS

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SECTION 08 71 00 - DOOR HARDWARE

PRODUCT REQUIREMENTS

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B. Furnish with finish hardware as necessary, screws, and other fasteners of suitable size and type to anchor the hardware in place for a lock in order to use. Design of all fastenings shall be approved by the Architect for substitution.
C. All applicable door hardware shall be satisfactorily tested for and meet all requirements for performance as specified in the hardware schedule.
D. Finish plug-type (not adhesive type) door silleners at all openings without interfering with normal operation of the door.
E. All hardware shall be tested for fire resistance in accordance with NFPA 254.

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WARRANTY
A. General Warranty: Manufacturer's [bracketed] agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements of that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 5 years from date of Substantial Completion.
B. Special Finish Warranty: Standard finish as in manufacturer's agreement to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Warranty Period: 10 years from date of Substantial Completion.

END OF SECTION 08 71 00

SECTION 08 71 00 - DOOR HARDWARE

PRODUCT REQUIREMENTS

- A. Provide doors, locksets, and exit devices by the same manufacturer. Use Habitat Standard type as a basis of design. Products by other manufacturers may be substituted for substitution upon receipt of samples.
B. Furnish with finish hardware as necessary, screws, and other fasteners of suitable size and type to anchor the hardware in place for a lock in order to use. Design of all fastenings shall be approved by the Architect for substitution.
C. All applicable door hardware shall be satisfactorily tested for and meet all requirements for performance as specified in the hardware schedule.
D. Finish plug-type (not adhesive type) door silleners at all openings without interfering with normal operation of the door.
E. All hardware shall be tested for fire resistance in accordance with NFPA 254.

FINISHES

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
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LOCKSETS

- A. All interior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome) and exterior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome).
B. All locksets shall be tested for fire resistance in accordance with NFPA 254.
C. All locksets shall be tested for fire resistance in accordance with NFPA 254.

EXIT DEVICES

- A. All exit devices shall be tested for fire resistance in accordance with NFPA 254.
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B. Shop drawings for each aluminum entrance and storefront system required, prepared by the manufacturer.
C. Submit samples of each specified color and finish.
D. Test Reports: Provide certified test reports to be included in independent test laboratory showing that specified systems comply with specified independent test in accordance with specified test procedures and comply with performance criteria, parameters, and characteristics indicated.

QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain systems in this section from same supplier of interior aluminum storefront system required for this project from one source and from a single manufacturer to ensure consistency and uniformity of color, finish, and quality. Comply with manufacturer's instructions and recommendations for installation. Set units plumb, level and to line, without any or lack of framing members, doors, and panels. Install components in proper alignment and orientation to established true line and grade. Provide proper support and anchor security in place.
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B. Special Finish Warranty: Standard finish as in manufacturer's agreement to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Warranty Period: 10 years from date of Substantial Completion.

END OF SECTION 08 71 00

SECTION 08 71 00 - DOOR HARDWARE

PRODUCT REQUIREMENTS

- A. Provide doors, locksets, and exit devices by the same manufacturer. Use Habitat Standard type as a basis of design. Products by other manufacturers may be substituted for substitution upon receipt of samples.
B. Furnish with finish hardware as necessary, screws, and other fasteners of suitable size and type to anchor the hardware in place for a lock in order to use. Design of all fastenings shall be approved by the Architect for substitution.
C. All applicable door hardware shall be satisfactorily tested for and meet all requirements for performance as specified in the hardware schedule.
D. Finish plug-type (not adhesive type) door silleners at all openings without interfering with normal operation of the door.
E. All hardware shall be tested for fire resistance in accordance with NFPA 254.

FINISHES

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
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LOCKSETS

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B. All locksets shall be tested for fire resistance in accordance with NFPA 254.
C. All locksets shall be tested for fire resistance in accordance with NFPA 254.

EXIT DEVICES

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TESTING STANDARDS

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B. Shop drawings for each aluminum entrance and storefront system required, prepared by the manufacturer.
C. Submit samples of each specified color and finish.
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QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain systems in this section from same supplier of interior aluminum storefront system required for this project from one source and from a single manufacturer to ensure consistency and uniformity of color, finish, and quality. Comply with manufacturer's instructions and recommendations for installation. Set units plumb, level and to line, without any or lack of framing members, doors, and panels. Install components in proper alignment and orientation to established true line and grade. Provide proper support and anchor security in place.
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A. General Warranty: Manufacturer's [bracketed] agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements of that fail in materials or workmanship within specified warranty period.
1. Warranty Period: 5 years from date of Substantial Completion.
B. Special Finish Warranty: Standard finish as in manufacturer's agreement to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
1. Warranty Period: 10 years from date of Substantial Completion.

END OF SECTION 08 71 00

SECTION 08 14 16 - FLUSH WINDOW DOORS

PRODUCT REQUIREMENTS

- A. Provide doors, locksets, and exit devices by the same manufacturer. Use Habitat Standard type as a basis of design. Products by other manufacturers may be substituted for substitution upon receipt of samples.
B. Furnish with finish hardware as necessary, screws, and other fasteners of suitable size and type to anchor the hardware in place for a lock in order to use. Design of all fastenings shall be approved by the Architect for substitution.
C. All applicable door hardware shall be satisfactorily tested for and meet all requirements for performance as specified in the hardware schedule.
D. Finish plug-type (not adhesive type) door silleners at all openings without interfering with normal operation of the door.
E. All hardware shall be tested for fire resistance in accordance with NFPA 254.

FINISHES

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
B. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
C. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.

TESTING STANDARDS

- A. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.
B. All hardware and finishes, including electric and double action types, rotary handles, electric hinges, and exit devices, shall be finished in accordance with the finishes specified in the hardware schedule.

LOCKSETS

- A. All interior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome) and exterior locksets, locksets, and trim shall be of one manufacturer, finish US300 (brushed chrome).
B. All locksets shall be tested for fire resistance in accordance with NFPA 254.
C. All locksets shall be tested for fire resistance in accordance with NFPA 254.

EXIT DEVICES

- A. All exit devices shall be tested for fire resistance in accordance with NFPA 254.
B. All exit devices shall be tested