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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat, SectionFormat,* and *PageFormat,* contained in *The Project Resource Manual--CSI Manual of Practice.*

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.

Section numbers are from *MasterFormat 1995 Edition,* with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

SECTION 08263 (08 16 73)

FIBERGLASS SLIDING DOORS

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Fiberglass sliding doors.

1.2 RELATED SECTIONS

A. Section 07270 (07 27 00) - Air Barriers: Water-resistant barrier.

B. Section 07920 (07 92 00) - Joint Sealants: Sealants and caulking.

1.3 REFERENCES

A. American Architectural Manufacturers Association (AAMA):
   1. AAMA 502 - Voluntary Specification for Field Testing of Windows and Sliding Doors.
   2. AAMA 623 - Voluntary Performance Requirements and Test Procedures for Organic Coatings on Fiberglass Profiles.

B. American Society for Testing and Materials (ASTM):
   1. ASTM C 1036 - Flat Glass.
   2. ASTM C 1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
   3. ASTM D 3656 - Insect Screening and Louver Cloth Woven from Vinyl-Coated Glass Yarns.
   4. ASTM E 283 - Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Difference Across the Specimen.
   5. ASTM E 547 - Water Penetration of Exterior Windows, Curtain Walls and Doors by Cyclic Static Air Pressure Differential.

C. Screen Manufacturers Association (SMA):
   1. SMA 1201 - Specifications for Insect Screens for Windows, Sliding Doors and Swinging Doors.

D. Window and Door Manufacturers Association (WDMA):
   1. ANSI/AAMA/NWWDA 101/I.S.2 - Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

1.4 PERFORMANCE REQUIREMENTS

A. Doors shall meet rating:
   1. SGD – C50 95.0” x 80.0” in. (Type: Sliding Glass Door, Performance Class: Commercial, Performance Grade: DP50, Maximum Size Tested: 95.0” x 80.0”) specification in accordance with AAMA/WDMA/CSA 101/I.S.2./A440-05
   2. SGD – C40 95.0” x 96.0” in. (Type: Sliding Glass Door, Performance Class: Commercial, Performance Grade: DP40, Maximum Size Tested: 95.0” x 80.0”) specification in accordance with AAMA/WDMA/CSA 101/I.S.2./A440-05

B. Door Air Leakage, ASTM E 283: Door air leakage when tested at 1.57 psf (25 mph) shall be 0.07 cfm/ft^2 of frame or less.

C. Door Water Penetration, ASTM E 547: No water penetration through door when tested under minimum static pressure of 7.50 psf (142 mph) after 4 cycles of 5 minutes each, with water being applied at a rate of 5 gallons per hour per square foot.

A. Thermal Performance, NFRC 100, NFRC 200, and ASTM 1363:
   a. 1” Insulated 272 Low-E/Argon units – U Value .31, SHGC .32
   b. 1” Insulated 366 Low-E/Argon units – U Value .30, SHGC .21
   c. 1” Triple Insulated 272 Low-E/Argon units – U Value .23, SHGC .25
   d. 1” Triple Insulated 366 Low-E/Argon units – U Value .23, SHGC .17

1.5 SUBMITTALS

A. Submit in accordance with Division 1 requirements.

B. Product Data: Submit manufacturer's product data, including installation instructions.

C. Shop Drawings: Submit manufacturer's shop drawings, indicating dimensions, construction, component connections and locations, anchorage methods and locations, hardware locations, and installation details.

D. Samples: Submit full-size or partial full-size sample of door illustrating glazing system, quality of construction, and color of finish.

E. Warranty: Submit manufacturer’s standard warranty.

1.6 QUALITY ASSURANCE

A. Mockup:
1. Provide sample installation for field testing door performance requirements and to determine acceptability of door installation methods.
2. Approved mockup shall represent minimum quality required for the Work.
3. Approved mockup shall [not] remain in place within the Work.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to site undamaged in manufacturers or sales branch's original, unopened containers and packaging, with labels clearly identifying manufacturer and product name. Include installation instructions.

B. Storage:
1. Store materials in accordance with manufacturer's instructions.
2. Store materials off ground and under cover.
3. Protect materials from weather, direct sunlight, and construction activities.

C. Handling: Protect materials and finish during handling and installation to prevent damage.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Windows and Doors Eco-Fibre Inc., 450 Sicard street, Mascouche, Qc., J7K 3G5.
Telephone (450) 474-0057. Website https://ecofibre.ca/

2.2 FIBERGLASS SLIDING DOORS

A. Sliding Doors: Eco-Fibre Series 5000 Sliding Patio Door.
1. Knocked down patio door with assembled sash.

2. Frame and Sash Material: Pultruded-fiberglass.

B. Frame:
1. Pultruded Fiberglass
2. Exterior Finish: Painted
3. Interior Finish: Painted or wood laminate.
4. Overall Frame Depth: 5-3/4" inches.
5. Nominal Wall Thickness of Fiberglass Members: 0.070 inch to 0.115 inch.

C. Door Panels:
1. Pultruded Fiberglass
2. Exterior Finish: Painted
3. Interior Finish: Painted or wood laminate.
4. Corners:
   a. Mitered
   b. Joined and sealed with Nylon corner keys, screws, and silicone.

D. Glazing:
1. Float Glass: ASTM C 1036, Quality 1.
   a. Tempered Glass: ASTM C 1048.

2. Type: Polyurethane reactive hot-melt glazed, 1"-inch thick, insulating tempered glass.

E. Weather Stripping:
1. Frame: Fin seal.

2.3 OPTIONS

A. Grilles:
1. Insulating Glass: Contain 3/4-inch, contoured, aluminum grilles between the glass.
2. Finish: Factory-finished. Match door frame.

B. Sliding Insect Screens: Standard.
1. Compliance: ASTM D 3656 and SMA 1201.
2. Screen Cloth: Vinyl-coated fiberglass, 18/16 mesh.
3. Extruded-Aluminum Frame
4. Rollers: 4 adjustable rollers.
5. Strike: Frame-mounted strike.
6. Hardware: Complete with necessary hardware.
7. Screen Frame Finish: Baked enamel.
   a. Color: Match window interior.

2.4 HARDWARE

A. Handles:
1. Interior Handle and Thumb Lock:
2. Latch: Inside locking on screens.

B. Locking System:
1. Two-Point Lock Hardware with adjustable strike.

C. Vent Panel Rollers:
1. Two adjustable rollers, set on stainless steel track.

2.5 TOLERANCES

A. Doors shall accommodate the following opening tolerances:
   1. Horizontal Dimensions Between High and Low Points: Plus 1/4-inch, minus 0 inch.
   2. Width Dimensions: Plus 1/4-inch, minus 0 inch.
   3. Building Columns or Masonry Openings: Plus or minus 1/4-inch from plumb.

2.6 FINISH

A. Exterior and Interior: Factory-applied two part urethane paint, comply with AAMA 623.

2.7 INSTALLATION ACCESSORIES

A. Flashing/Sealant Tape:
   1. Aluminum-foil-backed butyl window and door flashing tape.
   2. Maximum Total Thickness: 0.013 inch.
   3. UV resistant.
   4. Verify sealant compatibility with sealant manufacturer.

B. Insulating-Foam Sealant: Dow Window & Door.
   1. Low-pressure, polyurethane window and door insulating-foam sealant.

2.8 SOURCE QUALITY CONTROL

A. Factory Testing: Factory test individual standard operable windows for air infiltration in accordance with ASTM E 283, to ensure compliance with this specification.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine areas to receive doors. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and approved shop drawing.

B. Install doors to be weather-tight and freely operating.

C. Maintain alignment with adjacent work.

D. Secure assembly to framed openings, plumb and square, without distortion.

E. Integrate door system installation with exterior water-resistant barrier using flashing/sealant tape. Apply and integrate flashing/sealant tape with water-resistant barrier using watershed principles in accordance with door manufacturer's instructions.

F. Place interior seal around door perimeter to maintain continuity of building thermal and air barrier using insulating-foam sealant.

G. Seal door to exterior wall cladding with sealant and related backing materials at perimeter of assembly.

H. Leave doors closed and locked.

3.3 FIELD QUALITY CONTROL

A. Field Testing: Field-test doors in accordance with AAMA 502, Test Method A. Manufacturer's representative shall be present.

3.4 CLEANING

A. Clean door frames and glass in accordance with Division 1 requirements.

B. Do not use harsh cleaning materials or methods that would damage finish or glass.

C. Remove labels and visible markings.

3.5 PROTECTION

A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

END OF SECTION