Specifications 08490
Sliding Storefronts
Master Format 2004 Number 08 43 29
Sliding Storefronts

Sliding Glass Doors – Manet Compact

PART 1 – GENERAL

1.1 SUMMARY

A. This Section includes all-glass entrance doors and supplementary items required for installation of the following types of doors:

1. Interior doors.
2. Vestibule doors.
3. Transoms.
4. Sidelights.

B. Related Sections include the following:

1. Section 07900 “Joint Sealants” at interface of all-glass entrances and other building components.
2. Section 08410 “Metal-Framed Storefronts” for storefront systems with all-glass entrances.
3. Section 08460 “Automatic Entrance Doors.”
4. Section 08710 “Door Hardware” for lock cylinders installed in all-glass entrance locksets.
5. Section 08800 “Glazing” for description of door glass

1.2 SUBMITTALS – in accordance with instructions contained in Section 01330

A. Product Data: For each type of product specified. Include details of construction relative to materials, dimensions of individual components, profiles, and finishes.

B. Shop Drawings: Show details of fabrication and installation, including the following:

1. Plans, elevations and sections. Including layout and relationship to adjacent work.
2. Details of rail sections and fittings.
3. Hardware quantities, locations, and installation requirements.
4. Anchorages and reinforcement.
5. Glazing details.

C. Samples for Verification: Of size indicated below and of same thickness and material indicated for Work. Show the full range of color and texture variations expected.

1. Aluminum extrusions: 6-inch – (150-mm-) long sections of rails and other items.
2. Cladding: 6-inch (150mm) long sections of cladding of specified alloy and gauge of cladding metal.
3. Glass: Sample nominally 12” x 12” of color and thickness desired showing exposed-edge finish.

D. Hardware Schedule:

1. Submit hardware schedule for each door opening.
2. Include catalog cuts if not shown on shop drawings.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing all-glass entrances similar to those required for this Project and with a record of successful in-service performance.

B. Source Limitations: Obtain each type of all-glass entrance through one source from a single manufacturer.

C. Regulatory Requirements: Conform to applicable requirements of code authorities having jurisdiction over project. Confirmation of ADA requirements must be verified with appropriate building officials.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of all-glass entrances and are based on the specific system indicated. Other manufacturers' systems with equal performance characteristics may be considered. Refer to Division 1 Section 01630 "Substitutions."

1. Do not modify intended aesthetic effects, as judged solely by the Architect, except with Architect's approval and only to the extent needed to comply with performance requirements. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.

E. Reference Standards:

1. ANSI Z97.1 Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Tests.
2. ASTM C 1036 Specification for Flat Glass
3. ASTM C 1048 Specification for Heat-Treated Flat Glass – Kind FT
4. CPSC 16 CFR 1201 Architectural Glazing Standards and Related Materials.

1.4 PROJECT CONDITIONS

A. Field Measurements: Verify opening dimensions of all-glass entrances by field measurements before fabrication and indicate the measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating all-glass entrances without field measurements. Coordinate construction to ensure actual opening dimensions correspond to established dimensions.

1.5 WARRANTY

A. Special Warranty: Submit a written warranty executed by the manufacturer agreeing to repair or replace components of all-glass entrances that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:

1. Structural failures.
2. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

3. Failure of operating components to function normally.

B. Warranty Period: 2 years from date of Substantial Completion.

Edited for Manet Compact Door #4 Stainless finish

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. All-Glass Entrance Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Oldcastle Glass
2. Craftsman Tempered Glass
3. J.E. Berkowitz, LP
4. ACI Glass Products.
5. Blumcraft of Pittsburgh.
6. Virginia Glass Products Corp.

B. Door Hardware Manufacturer: Details shown are based on DORMA Manet Compact Sliding Door System manufactured and distributed by DORMA Glas, 1520 Jabez Run Suite 303, Millersville, MD 21108 Phone 301.390.1000 Fax 301.390.0011 Internet: www.dorma.com/usa

2.2 MATERIALS

A. Clear Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated surfaces), Type I (transparent), Class 1 (clear) requirements. Provide products of thickness indicated that have been tested for surface and edge compression according to ASTM C 1048 and for impact strength according to CPSC 16 CFR, part 1201 for Category II materials.

1. Thickness: (12 mm) ½”
2. Exposed Edges: Flat polished.
3. Butt Edges: Flat ground.
4. Corner Edges: Mitered.

B. Stainless-Steel Hardware: Type 316

2.3 COMPONENTS

A. Provide DORMA Compact Sliding Doors and Entrance configurations shown on architectural drawings, unless otherwise indicated, and as follows:

1. Material: Type 316 Stainless-steel
2. Full width tubular stainless track rod 25 mm diameter as shown on the architectural drawings.
3. The screw attaching the pivoting hardware to the glass shall be a 32 mm diameter countersunk as shown on architectural drawings.
4. Maximum door weight is 100 kg (220 lb).
5. Maximum door height is 3000 mm (118”).
6. Maximum door width is 1200 mm (48”)
7. Vertical (height) adjustment is + or – 2.5 mm for the carrier assembly.
8. Horizontal mounting adjustment is + or – 5 mm for glass or wall attachment.
9. Anti-jump device is recommended at the end of travel stops.

B. Push-Pull Set: As indicated on Drawings

C. Single-Door and Active-Leaf Locksets: Manufacturer's standard patch dead-bolt locksets and as follows:

1. Location and Function: Bottom-rail dead bolt. Dead bolt operated by key outside and thumb-turn inside and engaging a dust proof strike.
2. Inactive-Leaf Locksets: Manufacturer's standard dead-bolt locksets and as follows:
3. Location and Function: Bottom-rail dead bolt engaging a dust proof strike. Dead bolt operated by key outside and thumb turn inside.
4. Cylinders: As specified in Division B Section "Door Hardware."

2.5 SIDELIGHTS and TRANSOMS

A. Glass: ½" clear tempered with flat polished edges.

B. Sidelights and transoms are captured by U-channels or glass connectors as shown on drawings. Attachment of pivot rod to transom shall be direct or with an angle plate attaching to both transom and sidelight as shown on architectural drawings. Caution: the fixed sidelights, walls or transoms supporting the door must be designed to sustain the weight of the door and its components.

2.6 FABRICATION

A. General: Fabricate all-glass entrance components in sizes, profiles, and configurations shown on the architectural drawings.

1. Provide holes and cutouts in glass to receive hardware, fittings, and accessories prior to tempering glass. Do not cut, drill, or make other alterations to glass after tempering. Hole to hole distance dimensions are very critical when using counter sunk screws. Glass drilling tolerance of + or - .3 mm is recommended.
2. Fully temper glass using horizontal roller hearth process.
3. Tighten the single point fixing bolts with a Manet Assembling tool with a torque wrench to 15Nm (11 ft-lb)

2.7 STAINLESS-STEEL FINISHES

A. Remove or blend tool and die marks and stretch lines into finish.

B. Grind and polish surfaces to produce uniform, directional textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

C. Bright, Directional Polish: No. 4 finish

D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine areas, with installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of all-glass entrances. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install all-glass entrances and associated components according to manufacturer's written instructions.

B. Set units level and plumb.

C. Maintain uniform clearances between adjacent components.

D. Lubricate hardware and other moving parts according to manufacturers written instructions.

E. Set, seal, and grout floor closer cases as required by hardware and substrate.

3.3 ADJUSTING AND CLEANING

A. Adjust doors and hardware to provide smooth operation.

B. Remove excess sealant and glazing compounds and dirt from all-glass entrance surfaces.

3.4 PROTECTION

A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer that ensure all-glass entrances are without damage or deterioration at the time of Substantial Completion.

END OF SECTION 08450