

1995 CSI SECTION 08160 SLIDING METAL DOORS
2004 CSI SECTION 08 32 13 SLIDING ALUMINUM - FRAMED GLASS DOOR

PART 1 General

1.01 Summary

- A. Section includes:
 - 1. Sliding Metal Doors
- B. Related Sections:

1.02 References

- A. American Architectural Manufacturers Association (AAMA)
- B. American Society for Testing and Materials (ASTM)
- C. National Accreditation & management Institute (NAMI)
- D. National Wood Window & Door Association (NWWDA)
- E. Miami Dade County Building Notice of Approval (NOA)
- F. Florida Building Code – FL- Registration

1.03 System Description

- A. General: In addition to requirements shown or specified, comply with:
 - 1. Applicable provisions of AAMA Windows and Sliding Glass Doors Manual for design, materials, fabrication and installation of component parts.
- B. Design Requirements: Arcadia IP5500HPT Series SGD-DP +/- 70 psf -Small & Large Missile Impact using 1-1/16" Laminated Insulated Impact Glass. Arcadia 5500HPT Series SGD Non-Impact –using 1" IG temp Glass -DP +/- 45 psf (@ 10 ft. tall panels) –Higher DP performance pressures available based on door size and configurations.

1.04 System Performance

Sliding Glass Doors 4 1/2" & 5 1/4" depth.

- A. Performance Requirements: Each assembly shall be tested by a recognized testing laboratory or agency in accordance with specified test methods.
 - 1. Conformance to & ASTM E1886/1996-05 ((Small Missile & Large Missile) & AAMA/WDMA/CSA 101/I.S.2 / A440-05 - NAMI certified & Florida Building Code registered.

NFRC tested for:
-NFRC 100-2004 for fenestration U factors.
-NFRC 200-2004 for fenestration solar heat gain coefficients & visible transmittance at normal incidence.
-NFRC 500-2004 for fenestration condensation resistance values.

 - a. Air Infiltration: Accordance with ASTM E 283.
 - b. Water Resistance: Accordance with ASTM E 331.

1.05 Quality Assurance

- A. Single Source Responsibility:
 - 1. Obtain entrances, storefronts, ribbon walls, window walls, curtain walls, window systems, and finish through one source from a single manufacturer.
- B. Provide test reports from AAMA & NFRC accredited laboratories certifying the performances as specified in 1.03.

1.06 Warranty

- A. Warranted against failure and/or deterioration of metals due to manufacturing process for a period of one (1) year providing the product was installed in accordance with Arcadia's installation instructions and maintained in accordance with Arcadia's operations and maintenance manual.

PART 2 Products

2.01 Manufacturers

- A. Acceptable Manufacturers:
 - 1. **Arcadia Architectural Products, Inc.**, 60 Bonner Street, Stamford, CT. 203-316-8000, fax 203-316-8200.
- B. Acceptable Products:
 - 1. Arcadia IP5500HPT Series (Small & Large missile impact) – Arcadia 5500HPT Series Sliding Glass Doors- 4 1/2" & 5 1/4" depth.

2.02 Materials

- A. All doors shall be fabricated from aluminum extrusions of 6063-T6 alloy and temper with a minimum wall thickness of 0.100" for the sill member and a minimum of 0.072" for all other members, including frame & sash. The aluminum shall be free of defects which impair strength and appearance.

All panel members will have a minimum 1.03125" glass penetration (IP5500HPT Series), 1.03125" glass penetration (5500HPT Series), into the aluminum to provide extra protection against de-glazing or blow out in high wind conditions.

- B. Component parts and accessories shall be of aluminum alloy, stainless steel or non-metallic materials, which will neither deteriorate nor promote corrosion.
- C. Sill shall have a full length roll-formed 0.028" thick stainless steel track cap. Sill shall have a full-length roll-formed 0.028" thick stainless steel track cap.
- D. Operable sash shall be equipped with two stainless steel tandem ball bearing roller assemblies.
- E. Fully Stainless Steel Locking device Adams-Rite maximum security lock MS+1950 with hook bolt standard.
- F. Operating panels shall have an extruded 3/4" diameter 8" O.C. aluminum wire pull handle set in either clear or black anodize finish – other colors available.
- G. Fixed and/or sliding sash members shall be constructed to allow for either factory or field glazing. Sash glazing shall be "Dry" & accomplished using a "marine" style reusable, wraparound black flexible polyvinyl chloride (PVC) or EPDM material per commercial standard CS230-60 without the need for separate glazing beads or putty style bedding compounds. The glazing channel shall be provided with the unit for either 9/16" Laminated Impact Glass, 1-1/16" Insulated Laminated Glass or 1" IG Temp for Non-impact Tempered glass.
- H. All assembly and installation screws shall be 18-8 or 410 stainless steel.
- I. Screens- Optional –Shall be Interior Sliding made of extruded aluminum frame and screened with 18 x 16 fiberglass mesh.

2.03 Finish

- A. Finish all exposed areas of aluminum and components as indicated (excluding hardware):
 - 1. Clear Anodized Class 1 (215R1-0.7 mils thick) meeting AAMA 611.89
 - (or) 1. Dark Bronze Anodized Class 1 (0.7 mils thick) meeting AAMA 611.89
 - (or) 1. Standard finish is White baked on enamel-Duracron paint PPG UC-42737 meeting AAMA 2603-98
 - (or) 1. Standard finish is Quaker Bronze baked on enamel-Duracron paint PPG UC-88426 meeting AAMA 2603-98.
 - 1. Custom colors in a baked-on enamel or Duranar finish are also available – AAMA 2604.98 and AAMA 2605.98 subject to minimum square footage requirements.

2.04 Fabrication

- A. Jambes are cut and square butt joined to sill & head to ensure a weather resistant seal & must be back caulked.

PART 3 Execution

3.01 Examinations

- A. Examine conditions and verify substrate conditions are acceptable for product installation.

3.02 Installation

- A. Jambes are cut and square butt joined to sill & head to ensure a weather resistant seal & must be back caulked.
- B. Frame corner joint shall be secured with two (2) stainless steel fasteners – All fasteners heads must be caulked.
- C. Profile of the fixed jamb and the latching jamb shall include two weather stripped pockets to receive the fixed & latching stiles.
- D. Fixed & sliding panels shall have a nominal 1-1/2" depth & shall have butt joints.
- E. Interlockers and latching stiles shall be heavy gauge tubular sections assuring precise alignment and to resist twisting under load conditions.
- F. Install in accordance with approved shop drawings and manufacturers installation instructions.

3.03 Field Quality Control

- A. Contractor's responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.
- B. A 1/3 reduction of the test pressure for field testing is specified as a reasonable adjustment for the differences between a laboratory test environment and a field test environment per AAMA 502.

END OF SECTION