



1995 CSI SECTION 08160 SLIDING METAL DOORS
2004 CSI SECTION 08 32 13 SLIDING ALUMINUM - FRAMED
GLASS DOOR
(Window Walls/Ribbon Walls)

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)

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 ULT5000IP Series SGD-DP -/+ 70 psf -Small & Large Missile Impact using 1-1/16" Laminated Insulated Impact Glass. Arcadia ULT5000IP NI Series SGD - using 1" IG temp Glass -DP -/+ 60 psf (@ 8'6" tall panels) - Higher DP performance pressures available based on door size and configurations.
- C. 2 panel configuration only tested.

1.04 System Performance

Sliding Glass Doors 4 1/2" (5 1/4" depth w/screen).

- 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 (Small Missile & Large Missile) & AAMA/WDMA/CSA 101

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.

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 Series ULT5000IP Impact (Small & Large missile impact) - Arcadia Series ULT5000IP-NI Sliding Glass Doors - 4 1/2" (5 1/4" depth w/screen).

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 .625" glass penetration (ULT5000IP Small & Large Missile) .625" glass penetration 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 1-1/16" Insulated Laminated 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. (5 1/4" Frame Depth Overall)

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. 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. 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