

SECTION 08160 SLIDING METAL DOORS

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. Aluminum Association (AA)
- 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 ULT-5920 Series (thermal/non-thermal) Multi-Sliding Doors.

1.04 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 accredited laboratories certifying the performances as specified in 1.03.

1.05 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., 5190 S. Santa Fe Ave, Vernon, CA 9058. 323-908-5467, fax 323-908-5547.
- B. Acceptable Products:
 - 1. Arcadia ULT-5920 Series (thermal/non-thermal) Multi-Sliding Doors.

2.02 Materials

- A. Windows & doors fabricated from aluminum extrusions of 6063-T5 alloy and temper with a minimum wall thickness of 0.090" for the door frame sill member and a minimum of 0.072" for all other members including frame, panel and optional horizontal muntins. The aluminum shall be free of defects which impair strength and appearance.
- B. Component parts and accessories shall be of aluminum alloy, stainless steel or non-metallic materials which will neither deteriorate nor promote corrosion.
- C. Thermal break barrier (optional) shall provide a continuous uninterrupted thermal separation around the entire perimeter of the panel only which shall consist of a two-part, chemically curing, high-strength urethane.
- D. Sill shall have a full-length nylon track cap.
- E. Panel members shall have a minimum of 5/8" glass penetration into the aluminum.
- F. Operable panel shall be equipped with two adjustable steel tandem ball bearing rollers (all stainless steel tandem rollers and housings optional).
- G. Locking device Adams-Rite maximum security lock MS+1850 with stainless steel hook bolt standard. Multi-slider doors & windows including all pocket windows can be supplied with locking flush pulls and an Adams-Rite MS+1847 stainless steel mortise lock-optional.
- H. Operating panels shall have an extruded 3/4" diameter – 8" O.C. aluminum wire pull handle set in either clear or black architect finish – other colors available.

- I. Operating panels shall contain a bottom rail vinyl sweep.
- J. Horizontal members shall have two contact points incorporating silicone treated woven pile with mylar center fins. All vertical members shall have four contact points of silicone treated woven pile with mylar center fins. All shall be held in integral extruded slots and secured to prevent movement or loss while operating sash.
- K. Fixed and/or sliding panels shall be constructed to allow for either factory or field glazing. Panel glazing shall be accomplished using a "marine" style reusable, wraparound black flexible PVC or EPDM material per commercial standard CS23060 without the need for separate glazing beads or putty style bedding compounds. The glazing channel shall be provided with the unit for either 1" insulating glass or 3/16" or 1/4" single glazing.
- L. All assembly and installation screws shall be 18-8 or 410 stainless steel.
- M. Screen made of extruded aluminum frame and screened with 18 x 16 fiber mesh.

2.03 Finish

- A. Finish all exposed areas of aluminum and components as indicated (excluding hardware):
 - 1. Clear Anodized Class I (215 R1-0.4-0.7 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-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. Primary frame must be a minimum of 2" deep per panel required.
- B. Frame sections interlock together to form any number of repetitious sections, each capable of accommodating a panel.
- C. Each frame corner joint shall be secured with two stainless steel screws.
- D. Profile of the fixed jamb and the latching jamb shall include two weatherstripped pockets to receive the fixed and latching stiles.
- E. Fixed and sliding panels shall have a nominal 1-1/2" depth and shall have overlapped joints of the mortise type to provide extra strength and interlocking mechanically fastened hairline joints.
- F. Interlocks and latching stiles shall be heavy gauge tubular sections assuring precise alignment and to resist twisting under load conditions.

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

Contractor's responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

END OF SECTION