

2011 CSI SECTION 08 35 13 Folding Doors

Part 1 – General

1.01 Summary

- A. Section includes:
 1. Bi-Folding Aluminum 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)

1.03 System Description

- A. General: In addition to requirements shown or specified, comply with:
 1. Applicable provisions of AAMA Aluminum Storefront and Entrance Manual for design, materials, fabrication and installation of component parts.
- B. Design Requirements: Arcadia 8000 Series Bi-Folding Aluminum Door is a single source package of door, doorframe and hardware that is engineered to allow doors in both directions to be folded to the side of an opening.
- C. Performance Requirements: Each assembly shall be tested by a recognized testing laboratory or agency in accordance with specified test methods.
 1. Resistance to corner racking shall be tested by the dual moment corner joint strength test.
 2. Structural uniform load shall be tested in accordance with ASTM E 330.

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. System shall be warranted against failure and/or deterioration of metals due to manufacturing process for a period of two (2) years.

Part 2 – Products

2.01 Manufacturers

- A. Acceptable Manufacturers:
 1. Arcadia, Inc., 2301 E Vernon, Vernon, CA. Telephone 323/269-7300, Fax 323/269-7390.
- B. Acceptable Products:
 1. Arcadia, Inc., 8000 Series Bi-Folding Aluminum Door, 1-3/4".
 - a. Vertical stile: 2, 3-1/2 or 5 inches.
 - b. Top rail: 2-1/16 or 3-5/8 or 5-1/8 inches.
 - c. Bottom rail: 3 or 6 or 10 inches.
 - d. Glazing Insert: Snap-in type for _____ (1/4" or 1") infill.
 2. Major portions of the door stiles shall be a nominal .125" and glass stops shall be .050" thick.

2.02 Materials and Accessories

- A. Door members: Extruded 6063-T6 aluminum alloy (ASTM B221 – Alloy G.S. 10aT5).
- B. Screws, fastening devices, and internal components: Aluminum, stainless steel, or zinc plated steel in accordance with ASTM A-164 shall be aluminum or steel, providing the steel is properly isolated from aluminum.

2.02 Glazing Gasket (compression-type design).

2.03 Hardware

- A. Hardware for 8000 Series Bi-Folding Aluminum Door shall be furnished and installed by the manufacturer and shall include the following standard hardware
 1. Weatherstripping: A hard-backed polypile weatherstrip shall be installed in frame and interlockers and meeting

stiles of bi-parting doors. Sliding panel supplied with double sweep at sill.

2. Sill track: Aluminum
3. Stainless Steel Roller Guide Spindle
4. Guide Channel: aluminum
5. Top Guide Carrier/Hanger
6. Interlock Twin Bolt Lever
7. Optional swing door hardware per job basis

2.01 Finish

- A. Finish all exposed areas of aluminum and components as indicated.
 1. An Architectural Class II or I color anodic coating conforming to AA-M12C22A34/AA-M12C22A44.
 - a. Anodized finish color shall be Colornodic _____; (AB1 Light Champagne, AB2 Champagne, AB3 Light Bronze, AB4 Medium Bronze, AB5 Standard Medium Bronze, AB6 Dark Bronze, AB7 Standard Dark Bronze, AB8 Black.)
 - (or) 1. An Architectural Class II or I anodic coating conforming to AA-M12C22A31/AA-M12C22A41.
 - a. Anodize finish color shall be Colornodic _____ (#11 Clear)
 - (or) 1. Fluorocarbon Coating: AAMA 2605.2.
 - a. Resin: 70% PVDF Kynar 500/Hylar 5000.
 - b. Substrate: cleaned and pretreated with chromium phosphate.
 - c. Primer: Manufacturer's standard resin base compatible coating. Dry film thickness.
 - (a) Extrusion: Minimum 0.20 mil.
 - d. Color Coat: 70% PVDF, dry film thickness.
 - (a) Extrusion: 1.0 mil.
 - e. Color: As selected by Architect.
 - f. Acceptable Coatings Manufacturers:
 - (a) PPG Industries, Inc.
 - (b) Sherwin Williams

2.05 Door Fabrication

- A. Stiles and rails shall be tubular sections accurately joined, flush and hairline at corners with heavy concealed reinforcement brackets secured with machine bolts, with optional MIG weld. Exposed screws not permitted.
- B. Prepare internal reinforcement for hardware.
- C. Custom hardware templates and physical hardware must be submitted prior to any fabrication.

Part 3 – Execution

3.01 Examinations

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

3.02 Erection

- A. The maximum deflection of the header with the live load shall not exceed the lesser of L/720 of the span and 1/16". Structural support for lateral loads (both windload and when the panels are stacked open) must be provided.

3.03 Installation

- A. Install in accordance with approved shop drawings and manufacturers installation instructions.
- B. Installer to provide adequate anchorage devices and to securely fit frame in place, absolutely level, straight, plumb and square. Install frame in proper elevation, plane and location, and in proper alignment with other work.
- C. Ensure doors are adjusted at the time of installation for proper operation.
- D. Protect installed product from construction activities, particularly thresholds and floor channels.

3.04 Field Quality Control

- A. Contractors responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware

END OF SECTION