

1995 CSI SECTION 08520 Aluminum Windows
2004 CSI SECTION 08 51 13 Aluminum Windows

Part 1 – General

1.01 Summary

- A. Section includes:
 1. Sliding Window
- 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 2820 Pass Thru Series Multislide is a single source package of Window, Window frame and hardware that is engineered to allow multi-slide parallel stacking.
- 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.
 3. The 2820 Pass Thru Series Sliding Window incorporate an integral pan with a 3/4" high water barrier to eliminate the possibility of leakage per AAMA 501.2.

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., 3225 East Washington Blvd., Vernon, CA. Telephone 323/269-7300, Fax 323/269-7390.
- B. Acceptable Products:
 1. Arcadia, Inc., 2820 Pass Thru Series Multislide, 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 Window stiles shall be a nominal .125" and glass stops shall be .050" thick.

2.02 Materials and Accessories

- A. Window 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 2820 Pass Thru Series Multislide 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 Panels. Sliding panel supplied with double sweep at sill.
 2. Sill track: (stainless steel cap).
 3. Tandem ballbearing caster.
 4. Adams Rite maximum security lock.
 5. Cylinders (interior and exterior).
 6. Flush face pull.

2.04 Finish

- A. Finish all exposed areas of aluminum and components as indicated.
 1. An Architectural Class II or I color anodic coating conforming with 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 with 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) Valspar Corporation
 - (c) BASF

2.05 Window 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 Installation

- A. Install in accordance with approved shop drawings and manufacturers installation instructions.

3.03 Field Quality Control

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

END OF SECTION