

1995 CSI SECTION 08121 Flush Panel Doors
2004 CSI SECTION 08 12 16 Aluminum Doors And Frames

Part 1 – General

1.01 Summary

- A. Section includes:
 - 1. Flush Panel 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 RP325 Series Flush Panel Entrance System is a single source package of door, doorframe and hardware that is engineered for excessive traffic or difficult environmental conditions.
- C. Performance Requirements: Each assembly tested by a recognized testing laboratory or agency in accordance with specified test methods.

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. Door 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., RP325 Series Flush Panel Entrance, 1-3/4".
 - 2. Door stiles, rails shall have a nominal .125" wall thickness.

2.02 Materials and Accessories

- A. Door and glazing members: Extruded 6063-T6 alloy (ASTM B221-Alloy G.S. 10a T6), for 1/4-inch or 1-inch infill.
- B. Screws, fastening devices, and internal components: Aluminum, stainless steel, or zinc plated steel in accordance with ASTM A-164. Providing the steel is properly isolated from aluminum.
- C. Embossed or plain unpatterned 5005 alloy aluminum sheet .060 through .125 inches thick.
- (or) C. Embossed fiberglass reinforced polyester (F.R.P).
- D. Hardboard backing shall be 1/8-inch tempered hardboard.
- E. Core filled with an isocyanurate rigid foam board.
- F. Louvers blade and frame shall be 6063-T6 aluminum alloy.
 - 1. Louver blade inverted "Y" type shall have a minimum of 50 percent free airflow
- G. Insect Screens: 18-16 mesh, 0.011-inch dia. Aluminum, set in 6063-T6 extruded aluminum alloy frame, 0.05-inch min thickness
- H. Glazing Gasket (compression-type design).

2.03 Hardware

- C. Hardware furnished and installed by the door manufacturer, and include the following standard hardware (as selected).
 - 1. Weatherstripping: Hard-backed poly pile in door and/or frame. Meeting stile of all pair of doors have a double line hard-backed poly-pile astragal.
 - 2. Threshold: Extruded Aluminum with ribbed surface.
 - 3. Sill Sweeps: Nylon brush strip (exposed, concealed).

- 4. Pivoting/Hinging: (Center, offset pivot; butt, continuous.)
- 5. Closers: (Overhead concealed, surface, floor.)
- 6. Latches/Strike: (Dead-latch combination, two-point.)
- 7. Latch Handle: (Lever, eurostyle/ w/return, paddle.)
- 8. Electric Release: (Offset strike, center hung strike.)
- 9. Locks/Strike: (Maximum security hooklock, deadbolt.)
- 10. Auxiliary Locks: (Active two-point, active/inactive three-point, active three-point, flushbolts.)
- 11. Cylinders: (Mortise, rim, dummy, thumbturn.)
- 12. Panic Devices: (Cross, touch bar, flush mid panel.)
- 13. Push/Pulls: (Standard, offset radius, straight radius.)
- 14. Cylinder Guard: (Security ring/retainer ring.)
- 15. Exit Indicator: (Message panel.)
- 16. Transom Decal: (This door to remain . . .)
- 17. Door Stop/Holder:

SPECIFIER NOTE: Refer to Arcadia Architectural Manual, Hardware Section for description of items 4-17.

2.04 Finish

- A. Finish all exposed areas of aluminum and components as indicated.
 - 1. An Architectural Class II or 1 color anodic coating conforming with AA-M12C22A34/AAM12C22A44.
 - 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 Door Fabrication

- A. Door sections to receive and conceal cut edges of face sheets.
- B. Rails joined to tubular stiles by 3/8-inch steel rods.
- C. Face sheets lap and interlock stiles and rails.
- D. Prepare internal reinforcement for door hardware.
- E. 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. Contractor's responsibility to make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

END OF SECTION