



1995 CSI SECTION 08120 Aluminum Doors And Frames  
2004 CSI SECTION 08 11 16 Aluminum Doors And Frames

Part 1 – General

1.01 Summary

- A. Section includes:
  1. Aluminum Terrace Doors and Frames
- 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 Windows and Sliding Glass Doors Manual for design, materials, fabrication and installation of component parts.
- B. Design Requirements: Arcadia IPARC8250 Series Terrace Door is a single source package of door, doorframe and hardware that is engineered for hi-rise, condominiums and hotel applications.
- C. Performance Requirements: Each assembly tested by a recognized testing laboratory or agency in accordance with specified test methods.
  1. Conformance to ASTM 1886/1996 ( Small Missile & Large Missile ) & AAMA/NWWDA 101/I.S. 2-97 ( Non Impact).
  2. Water Penetration: No water leakage when tested per ASTM E 331 at a static air pressure difference of 6.24 psf.
  3. Air Infiltration: Accordance with ASTM E 283 at a static air pressure difference of 6.24 psf. Air infiltration shall not exceed .30 cfm per square foot.
  4. Uniform Structural: Door leaf to be operable when tested per ASTM E 330 at a static air pressure difference of 30 psf.

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. Aluminum terrace door and frame 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., IPARC8250 Series Terrace Door and Frame
    - a. 3 1/4 frame depth.
    - b. 2 15/16" door leaf depth.
    - c. Configuration: Outswing; [inswing]; single [double] door leaf per frame.
    - d. Glazing Stops: Snap-in type for \_\_\_\_\_ (1/4 - 1 inch) infill.

2.02 Materials and Accessories

- A. Door members: Extruded 6063-T6 aluminum alloy (ASTM B221-Alloy G.S. 10a).
- 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.

C. Glazing Gasket

1. Compression-type design.

2.03 Hardware

- D. Hardware furnished and installed by the door manufacturer, and include the following standard hardware.
  1. Weatherstrip: Secured in extruded ports; double rows on door leaf perimeters; compression bulb design.
  2. Hinging: Butt hinge.
  3. Latch Handle: Lever.
  4. Locks: Multipoint door locking system.

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-MI2C22A44.
    - 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/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. Frame: Head and sill fastened to jambs with four #12-24 x 3/4 inch screws per corner.
- B. Door Leaf: Tubular horizontal door leaf rails mitered, reinforced with an extruded corner key, and welded.
- C. All corners shall be weathersealed with an elastomeric sealant.

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. Make all necessary final adjustments to attain normal operation of each door and its mechanical hardware.

END OF SECTION