

2004 CSI SECTION 08 44 33 Sloped Glazed Assemblies

Part 1 – General

Furnish all necessary materials, labor, and equipment for the complete installation of the sloped glazing system as shown on the drawings and specified herein.

1.01 Summary

- A. Section includes:
 1. Sloped Glazed Assemblies
 - A. Arcadia, Inc., T500SW Series, 2-1/2" x 7" Captured for 1" glass.
- B. Related Sections:

1.02 System Performance Description

- A. American Architectural Manufacturers Association (AAMA)
- B. American Society for Testing and Materials (ASTM)
- C. Aluminum Association (AA)

1.03 System Description

- A. Performance Requirements: Provide aluminum sloped glazing systems that comply with performance requirements indicated, as demonstrated by testing manufacturer's assemblies in accordance with test method indicated:
 1. Wind Loads: Completed system shall withstand wind pressure loads normal to wall plane indicated:
 - a. Exterior Walls:
 1. Positive Pressure:
 2. Negative Pressure:
 - b. Interior Walls (Pressure Acting in Either Direction):
 2. Deflection: Maximum allowable deflection in any member when tested in accordance with ASTM E 330-90 with allowable stress in accordance with AA Specifications for Aluminum Structures
 - a. L/175 or 3/4" (19.1mm) maximum.
 3. Thermal Movement: Provide for thermal movement caused by 180 degrees F. (82.2 degrees C) surface temperature, without causing buckling stresses on glass, joint seal failure, undue stress on structural elements, damaging loads on fasteners, reduction of performance, or detrimental effects.
 4. Air Infiltration: Completed slope glazing systems shall have 0.03 CFM/FT² (0.55 m³/h-m²) maximum allowable infiltration when tested in accordance with ASTM E 283-91 at differential static pressure of 6.24 PSF (299 Pa).
 5. Water infiltration (Static): No uncontrolled water on indoor face of any component when tested in accordance with ASTM E 331-93 at a static pressure of 10 PSF (480 Pa).

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.
 2. 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:
 2. Arcadia, Inc., T500SW Series.

2.02 Materials

- A. Framing members, transition members, mullions, adaptors, and mounting: Extruded 6063-T6 aluminum alloy (ASTM B221 – Alloy G.S. 10a T6).
- B. Screws, fastening devices, and internal components: Aluminum, stainless steel, or zinc-plated steel in accordance with ASTM.A-164. Perimeter anchors shall be aluminum or steel, providing the steel is properly isolated from aluminum.
- C. Glazing Gasket
 1. Compression-type design, replaceable, molded or extruded santoprene, polyvinyl chloride (PVC), or ethylene propylene diene monomer (EPDM).

2.03 Finishes And Colors

- 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 Colormodic _____ (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 Colormodic _____ (#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

2.04 System Fabrication

- A. Provisions shall be made at all sealed horizontals to keep moisture accumulation to the exterior.
- B. System shall provide for two-piece horizontal framing so that all fasteners at intersection of horizontal and vertical members will be concealed.
- C. There shall be no exposed fasteners at perimeter sections.

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. Test the curtain wall for water leaks in accordance with AAMA 501.2. Conduct test in the presence of the Architect. Correct deficiencies observed as a result of this test.

END OF SECTION