

Product Standards and Guide Specifications

Cassette T500 SSG Clad Wall Series

2-1/2" X 10-5/16" 4-Sided Structural Silicone Glazed (SSG) System Glazed for 1" Glass

1995 CSI SECTION 08911 Glazed Aluminum Curtain Wall 2004 CSI SECTION 08 44 13 Glazed Aluminum Curtain Wall

Part 1 - General

1.01 Summary

- A. Section includes:
 - 1. Glazed Aluminum Curtain Wall
- 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:
 - Applicable provisions of AAMA Metal Curtain Wall Manual for design, materials, fabrication, and installation of component parts.
- B. Design Requirements: Arcadia T500 SSG Clad Wall Series, (2 ½" sightline) is a self-supporting curtain wall, 4 sided structural silicone glazed (SSG) system. Outside glazed with metal interfaced insulated glass (interface shop applied with structural silicone).
- C. Performance Requirements:
 - Limit air leakage through assembly to 0.06 CFM/min/sq. ft. (.00003 m³/sm²) of wall area at 6.24 PSF (300 Pa) as measured in accordance with ASTM E283.
 - Water Resistance: No water leakage when measured in accordance with ASTM E331 with a static test pressure of 15PSF.
 - Uniform Load Deflection under () psf positive and () psf negative design wind pressure normal to the plane of the wall, shall not exceed L/175 of the clear span or 3/4", when tested in accordance with ASTM E 330.
 - Uniform Load Structural at a pressure 1.5 times the design wind pressure in accordance with ASTM E 330.
 - System shall not deflect more than 1/8" at the center point, or 1/16" at the center point of a horizontal member, once deadload points have been established.
 - System shall accommodate expansion and contraction movement due to surface temperature differential of 180 degrees F
 - Condensation Resistance Factor (CRF) in accordance with AAMA 1503.
 - Thermal Transmittance (U-Value) in accordance with AAMA 1503.
 - Seismic testing shall conform to AAMA recommended static test method for evaluating performance of curtain walls and storefront wall systems due to horizontal displacements associated with seismic movements and building sway in accordance with AAMA 501.4.
 - 10. Sound transmission in accordance with ASTM E 90.
 - National Fenestration Rating Council (NFRC) specific application evaluation.

1.04 Quality Assurance

- A. Single Source Responsibility:
 - 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:
 - Arcadia, Inc., 2301 E Vernon, Vernon, CA. Telephone 323/269-7300, Fax 323/269-7390.
- B. Acceptable Products:
 - Arcadia, Inc., T500 SSG Clad Wall Series, (2 ½" sightline), 4 sided structural silicone glazed (SSG) system.

2.02 Framing Materials and Accessories

- 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
 - Gaskets to meet requirements of ASTM C509

2.03 Finish

- Finish all exposed areas of aluminum and components as indicated.
 - 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.
 - 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.
 - 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. Accurately fitted joints.
- Physical and thermal isolation of glazing from framing members.
- C. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

Part 3 - Execution

3.01 Examinations

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

3.02 Installation

 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