

Product Standards and Guide Specifications

UW3061 Series

3" X 6" Unitized – Captured And 2 And 4 Sided Structural Glazed System 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
 - Arcadia, Inc., UW3061 Series, 3" x 6" unitized offset captured and 2 and 4 sided silicone glazed system for 1" glass.
- 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

- General: İn addition to requirements shown or specified, comply with:
 - Ápplicable provisions of AAMA Metal Curtain Wall Manual for design, materials, fabrication and installation of component parts.
- Design Requirements: Arcadia UW3061 Series is a factorycontrolled fabricated assembly.
- 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 10PSF.
 - 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 – 30 degrees F to +180 degrees F.
 - 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.
 - 8. Sound transmission in accordance with ASTM E 90.

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:
 - 1. Arcadia, Inc., UW3061 Series

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 (Silicone Compatible)
 - Compression-type design, replaceable, molded or extruded santoprene, polyvinyl chloride (PVC), or ethylene propylene diene monomer (EPDM).

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.
 - 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.
 - 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

2.04 System Fabrication

- A. Finish, fabricate, and shop assemble under responsibility of one manufacturer. All joinery must be factory sealed with silicone.
- Provide a two-piece stacking horizontal at every floor incorporating a continuous gutter.
- C. Gutter splice must allow for lateral (racking) movement.
- D. System must allow for inter-story differential movement of 3/4" plus or minus.
- E. Provide interlocking male/female type verticals to allow for thermal movement and erection tolerance.
- A sill pan to be provided at the base of the curtainwall system.
- G. Where required, weld by methods recommended by manufacturer to avoid discoloration at welds. Grind exposed welds smooth.

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 and nominal curing of sealants and glazing compounds, 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