

Awning Works Inc

Exterior Sun Control Devices

CSI – Division 10

SECTION 10700

PRE- ENGINEERED EXTRUDED ALUMINUM CUSTOM INFILL COMPONENTS SPECIFICATION

PART 1 GENERAL

SUMMARY

A. Section Includes:

1. Fixed extruded-aluminum exterior mounted sunshades including attachment components. Custom Aluminum In-Fills of airfoils, louvers, sheet, bar, tube, decking panel, shutter blades and commercial fabrics or polycarbonate Lexan® panels.

PERFORMANCE REQUIREMENTS

- B. Design: Design sunshades to include a comprehensive engineering analysis by a qualified engineer, using structural performance requirements and design criteria indicated.
- C. Structural Performance: Sunshades shall withstand the effects of gravity loads within the limits and under conditions indicated without permanent deformation of sunshade components and mounting components, or permanent damage to fasteners and anchors.
1. Wind Loads: Determine loads based on a uniform pressure defined by the local building code, acting perpendicular to sunshade surfaces.

SUBMITTALS

D. Product Data: For each type of product indicated.

1. Include technical data demonstrating mounting and fastening methods, material descriptions, construction details, dimensions of assemblies and components, appearance details, and finishes.

E. Shop Drawings: For exterior sunshades and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.

F. Samples: For each type of metal finish required.

G. Submittal: For sunshades indicated to comply with structural performance requirements and design criteria.

MANUFACTURERS

As Approved by this specification, no substitutions are authorized.
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PRODUCT

MATERIALS

- H. Aluminum Extrusions: ASTM B 221M, Alloy 6063-T5 & T6.
- I. Aluminum Sheet: ASTM B 209M, Alloy 3003 with temper as required for forming.
- J. Fasteners: Use corrosive resistant or stainless steel Grade 304 or better of types and sizes to suit unit installation conditions and as defined on the engineered drawing.

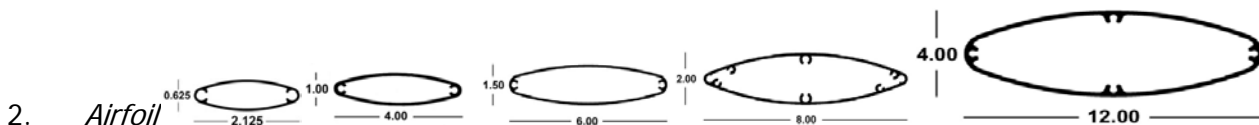
FABRICATION, GENERAL

- K. Fabricate frames, including outriggers, in dimensions as indicated. Include allowances for fabrication and installation tolerances, adjoining material tolerances, and thermal movements.
- L. Space the blades as indicated, and the outermost blades within the frame, to create a uniform appearance.
- M. Join frame members to each other by welding or with threaded fasteners.

FIXED, EXTRUDED-ALUMINUM EXTERIOR SUNSHADES

Custom Designed Airfoil, Blade, Sheet, Tube & Louvered Sun Control System

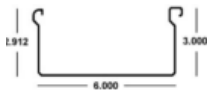
1. Basis-of-Design Product: Architectural Exterior Sunshades designed of the following in sizes, alloy and finishes defined on the approved shop drawings.



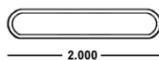
2. *Airfoil*
3. *Outriggers* Solid Aluminum Plate Rectangular Tubing
4. *Front Bar* Round Square Rectangular Flat
5. Other Infill Components (also used for Trellis Designs)

<i>Louvers</i>	Rectangular Tube	Square Tube	Solid Bar	Angle
<i>Sheet</i>	Solid	Perforated	Expanded	

Flush Bottom Deck Panel



Bahama Shutter Blade
Fabrics, Commercial Fire Rated
Polycarbonate



Sunbrella Open Mesh Vinyl Laminates
 Lexan® Multi-Wall (clear, frosted and color tinted)

- | | | | | | |
|----|----------------------------|--------|-------|-------------|------|
| 6. | Arm Supports & Wall Plates | Square | Round | Rectangular | Flat |
|----|----------------------------|--------|-------|-------------|------|

DRAINAGE

- N. Solid or flush bottom deck panel sunshades can be designed with front or rear drainage. The drainage can be integrated into a downspout or free flow to either end or front of the sunshade depending on its use. The drainage design will be as determined on the shop drawing.

ALUMINUM FINISHES

- O. Weather Resistant Marine Grade Polyester Powder Coatings
 - P. Super Durable highly weather and UV resistant powder coating finish complying with AAMA 2604-05
 - Q. High-Performance Kynar paint finish complying with AAMA 2605
- Optional Anodize Finish available depending on product design
1. Color and Gloss: As selected by Architect from manufacturer's full range.

EXECUTION

INSTALLATION

- R. Locate and mount sunshades level, plumb, and as indicated on the approved architectural or shop drawings.
- S. Use fastening and mounting methods in accordance with manufacturer instructions.
- T. Use concealed anchorages where possible, with locations as directed by manufacturer instructions.
- U. Caulk & Flash seal to prevent water intrusion.
- V. Field Repair damaged finishes so no evidence remains of corrective work.