

MASA Architectural Canopies

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Ecoshade Aluminum Sunshade System

General Notes to Specifier

This master specification section has been prepared by MASA Architectural Canopies for use in the preparation of a project specification section covering fixed exterior sunshades consisting of extruded aluminum framing and supports with fixed louvers. Contact MASA for specifications to other products.

Optional text to be determined as necessary by user is found within parentheses () notation.
e.g.: (Section 09 0000)

Sustainable requirements sections should be included for projects requiring LEED certification. For additional information on LEED, visit the U.S. Green Building Council website at www.usgbc.org.

For assistance on the use of the products in this section, contact MASA Architectural Canopies by calling 800-761-7446, by email at information@architecturalcanopies.com, or visit their website at www.architecturalcanopies.com

SECTION 10 5010

EXTERIOR SUNSHADES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Fixed exterior sunshades.
- B. Related Sections:
 - 1. Division 01: Administrative, procedural, and temporary work requirements.
 - 2. (Section 08 4413 - Glazed Aluminum Curtain Wall.)

1.2 REFERENCES

- A. Aluminum Association (AA) DAF 45 - Designation System for Aluminum Finishes.
- B. American Architectural Manufacturers Association (AAMA)
 - 1. 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Architectural Extrusions and Panels.
 - 2. 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Architectural Extrusions and Panels.
- C. American Society of Civil Engineers (ASCE) 7 - Minimum Design Loads for Buildings and Other Structures.
- D. ASTM International (ASTM)
 - 1. B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 - 2. B429 - Standard Specification for Aluminum-Alloy Extruded Pipe and Tube.

1.3 SYSTEM DESCRIPTION

- A. Design Requirements: Design sunshade system to withstand:
 - 1. Standards for wind pressure, snow load, and drifting snow load in accordance with current adopted form of the Uniform Construction code or accepted requirements of local municipality.

1.4 SUBMITTALS

- A. Submittals for Review:
 - 1. Shop Drawings: Indicate system components, dimensions, attachments, and accessories.
 - 2. Samples:
 - a. [3 x 3] [__ x __] inch coating samples [showing available colors.] [in specified color.]
 - b. 6 inch long louver (or other infill selection) samples showing profile and finish.
 - c. 6 inch outrigger plate and tube frame samples showing louvers and supports.
- B. (LEED Project Submittals)
 - 1. Product Data for Credit MR 4: documentation indicating percentages by weight of post consumer and pre consumer recycled content. Include statement indicating cost for each product having recycled content.
 - 2. Product Data for Credit MR 5: Indicate location of product manufacturer, distance from manufacturer to project site, and mill test report for origination of materials.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 5 years experience in installation of MASA products.

- B. (Mockup:
1. Provide mockup of sunshade system including framing, supports, louvers, and attachments at location selected by architect.)

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Contract Documents are based on:
Ecoshade
- By: MASA Architectural Canopies
21 Randolph Ave.
Avenel, NJ 07001
800-761-7446
www.architecturalcanopies.com.
- B. Acceptable alternates:

Other manufacturers may bid only after written approval of the architect, obtained 10 days prior to bid opening and issued by addendum. Interested manufacturers must furnish full details of proposed product, engineering calculations on all sections involved, physical samples of all shapes and finishes, a list of installations similar in size and design, and must have a minimum of five years experience in manufacturing and installing extruded aluminum louver systems

2.2 MATERIALS

- A. Aluminum Extrusions:
1. ASTM B221& ASTM B429 6061-T6 alloy and temper.
- B. Hardware:
1. All fasteners shall be stainless steel or hot dip galvanized for corrosion resistance.

2.3 COMPONENTS

- A. Infill Louvers:
1. Type: Hollow extruded aluminum airfoil. (Solid plate blade)
2. Size: 6" x 1 1/2" (8" x 2") (12" x 4") (2" blade)
- B. Outrigger Supports: 1/4" flat aluminum plate
- C. (Framing: Extruded aluminum Rectangular Tube 2" x 8" x 1/8 inch thick.)
- D. Attachment Plates: attachment hardware based on manufacturer's approved shop drawing design.
- E. Other Components: other components as indicated or as required for system attachment and performance.

2.4 ACCESSORIES

- A. Anchors and Fasteners: Stainless steel or hot dip galvanized and corrosion resistant

2.5 FABRICATION

- A. Fabricate sunshade system in accordance with approved Shop Drawings.
- B. Louvers to be factory assembled with plate outriggers using stainless steel, threadcutting screws through internal screw slots in blades. Infill louvers must be removable in case of damage, welding is not acceptable.

2.6 FINISHES

(select appropriate finish)

(powdercoat finish)

A. Aluminum:

1. Type: AAMA 2605, fluoropolymer coating containing minimum 70 percent PVDF resins.
2. Source: Tiger Drylac powder coating or equivalent.
3. Color: (color) to be selected by architect from MASA's color range

(clear anodized)

B. Aluminum: AA M12C22A31, Class I anodized to 0.0007 inch minimum thickness, clear.

(fluoropolymer finish)

C. Aluminum:

1. Type: AAMA 2605, fluoropolymer coating containing minimum 70 percent PVDF resins.
2. Source: Duranar by PPG Industries, Inc. or equivalent.
3. Color: (color) to be selected by architect from MASA's color range.

PART 3 - EXECUTION

3.1 FIELD DIMENSIONS

A. Field verify dimensions of supporting structure at site of installation prior to fabrication.

3.2 INSTALLATION

A. Install in accordance with manufacturer's instructions and approved Shop Drawings.

B. Install components plumb and level, in proper plane, free from warp and twist.

C. Anchor system to building components; provide adequate clearance for movement caused by thermal expansion and contraction and wind loads.

3.3 ADJUSTING

A. Touch up minor scratches and abrasions on finished surfaces to match original finish.

END OF SECTION