

Solar Control Sunshades by ACM Panelworx

SPECIFICATIONS GUIDE EXTERIOR SUN CONTROL DEVICE

Part 1 GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A53/A53M-07, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
 - .2 ASTM A269-08, Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
 - .3 ASTM A307-07b, Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
 - .4 ASTM B209-02a, Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - .5 ASTM B221-02, Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- .2 Canadian Standards Association (CSA International)
 - .1 CAN/CSA G40.20/G40.21-04, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA G164-M92 (R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA S16.1-09, Limit States Design of Steel Structures.

1.2 DESCRIPTION

- .1 Furnish all materials design, fabrication and installation to complete the installation of solar control device as manufactured by ACM Panelworx.

1.3 SUBMITTALS

- .1 Provide submittals in accordance with Section Submittal Procedures.
- .2 Shop Drawings
 - .1 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.
 - .2 Shop drawings to be designed by and bear seal of Professional DCC Representative licensed in Province of Ontario.

1.4 PERFORMANCE REQUIREMENTS

- .1 Design solar control device to meet the Structural requirements of L/120 of the span.
- .2 The system should perform to the criteria provided by the designers, specific to structural design of any geographical area.

Part 2 PRODUCTS

- .1 Px 1-24 airfoil design manufactured from aluminum alloy extrusions 6063-T5 or 6063-T6.
- .2 Manufactured with material thickness of .085 inch, minimal airfoil wall thickness and outriggers with minimal wall thickness of .025 inch.
- .3 All attachment hardware to be stainless steel.

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EXTERIOR SUN CONTROL DEVICE

2.1 MATERIALS

- .1 Extruded aluminum: ASTM B221.
- .2 Sheet aluminum: ASTM B209.
- .3 Steel sections and plates: to CAN/CSA G4.0.20/G40.21.
- .4 Bolts and anchor bolts: to ASTM A307.

2.2 HORIZONTAL SUNSHADES

- .1 Sunshade system to be by ACM Panelworx.
- .2 Formed fins for horizontal sunshade applications.
 - .1 Nominal 700mm depth from building face.
 - .2 Form support arms if single aluminum extrusions for connection to curtainwall system.
 - .3 Aluminum thickness as required for snow and wind loads as indicated in shop drawings.

2.3 FINISH

- .1 All exposed finishes to be free from blemish and adhere to specified finishes.

PART 3 EXECUTION

Follow all instructions provided by manufacturers engineered shop drawings.

3.1 FINISH

- .1 Erect sunshades square, plumb, straight, and true, accurately fitted to substrate connections.
- .2 Provide suitable means of concealed anchorage suitable to transfer snow and windloads from sunshades to curtainwall framing, in accordance with reviewed shop drawings.
- .3 Provide components for building by other sections in accordance with shop drawings and schedule.
- .4 Make field connections with bolts to CAN/CSA S16.1.



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