SUGGESTED SPECIFICATION FOR
SECTION 10 7113 - Exterior Sun Control Devices

Section 10 7113
PART 1 – GENERAL

1.01 DESCRIPTION

A. Provide fixed Custom Sunshades as shown on the drawings, as specified, and as needed for a complete and proper installation.

B. The drawings show the extent of the work, the dimensioned profile and depth of the sunshade to be provided.

C. Related work specified elsewhere:
1. Metal Fabrication - 05500

1.02 SUBMITTALS

A. Product Data: Submit specifications, data, and installation, instructions from the manufacturer of the Sunshades.

B. Submit shop drawings for the system. Show anchorage, details and connections for all the component parts.

1. Drawings shall include elevations, sections and specific details for each unit, condition.

C. Samples: Submit one sample minimum 24" long of each material to be utilized at each Sunshade with appropriate finish.

D. Warranty: Provide written warranty to the owner that all screen products will be free of defective materials or workmanship for a period of one year from date of installation.

E. Quality Assurance:

1. Single subcontract responsibility: Subcontract the work to a single firm that has had not less than five years experience in the design and manufacturing of work similar to that shown and required. **Sub-contracting of the fabrication of the sunshades to a shop other than the vendor who is contracted for the material, is not acceptable**

2. Performance requirements: Design sunshades to accommodate local requirements for snow and wind loading. Provide vendors calculations for the design being supplied. Calculation should be signed and sealed by an Engineer registered in the state where the project is located. Analysis of Blade Deflection to be limited to **L/120, ¾", or as required by code**.

PART 2 -PRODUCTS

2.01 PRODUCTS

Sunshades shall be Product: **Thresher**, Model: **TR_4RB-AF6-N** as manufactured by:

Sharchs Corporation located at:
6750 Corporation Parkway, Ste. B
Fort Worth, Texas 76126
Tel. 1-866-666-4505

2.02 MATERIALS

A. Aluminum Extrusions: ASTM B211, Alloy 6063-T5.

B. Fasteners: Fasteners shall be aluminum or stainless steel. Provide types, gauges and lengths to suit unit installation conditions.

C. Anchors and Inserts: Use non-ferrous metal or hot dip galvanized anchors and inserts for installation and elsewhere as required for corrosion resistance. Use stainless steel or lead expansion bolt devices for drill-in place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.03 FABRICATION, GENERAL

A. Provide fixed Sunshades and accessories of design, material, sizes, depth, arrangement, and thickness as indicated or as required for optimal performance with respect to strength; durability; and uniform appearance.

B. Unless noted otherwise on plans all required structural anchorage and/or treated internal wood blocking (as required by manufacturer for installation) to be provided and installed by structural contractor.

2.04 SUNSHADE CONSTRUCTION

A. Components: All blades, outrigger and fascia components shall be 6063-T5 aluminum alloy.
1. Outriggers to be mounted to existing structural bracket with 3/8” x 1 ¾” stainless steel through bolts, washers and lock nuts. In the event that a structural bracket is not available, surface mounted 3/8” extruded aluminum “T” brackets to be supplied by Sunshade manufacturer. Aluminum “T” brackets shall be finished to match aluminum sunshades.
2. Outriggers Material: **4” x .25" Flatbar.**
3. Outrigger profile: **Rectangular with a blocked nosing**.
4. Projection: **As indicated on plans.**
5. Infill: **Air Foil profile (6" x 1.5" x .085").** Infill shall be factory assembled to 1/4” outrigger plates using stainless steel, type F, thread cutting screws through internal screw slots in blades. Welding is not acceptable. Infill must be removable in case of damage.
6. Fascia: **None.**

2.05 ALUMINUM FINISH

A. General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated. Apply finishes in factory after products assembly. Protect finishes on exposed surfaces prior to shipment. Remove scratches and blemishes from exposed surfaces which will be visible after completing finishing process.

2.05 ALUMINUM FINISH (cont.)

B. Sunshade panels, outriggers, and other components shall receive electrostatically applied colored polyester powder coating heat cured to chemically bond finish to metal substrate. Standard finish shall comply with AAMA 2604 specifications. Optional premium finish shall comply with AAMA 2605 specifications.

1. Minimum hardness measured in accordance with ASTM D3363: 2H.

2. Direct impact resistance tested in accordance with ASTM D2794: Withstand 160 inch-pounds.

3. Salt spray resistance tested in accordance with ASTM B117: No undercutting, rusting, or blistering after 500 hours in 5 percent salt spray at 95 degrees F and 95 percent relative humidity and after 1000 hours less than [3/16 inch] [5 mm] undercutting.

4. Weatherability tested in accordance with ASTM D822: No film failure and 88 percent gloss retention after 1 year exposure in South Florida with test panels tilted at 45 degrees.

C. Color: As selected by architect from manufacturer's standard colors.

PART 3 - EXECUTION

3.01 INSPECTION

A. Examine openings to receive the work. Do not proceed until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Comply with manufacturer's instructions and recommendations for installation of the work.

B. Verify dimensions of supporting structure at the site by accurate field measurements so that the work will be accurately designed, fabricated and fitted to the structure.

C. Anchor Sunscreen to building substructure as indicated on architectural drawings.

D. Erection Tolerances: Variation from level: +/- 1/8" maximum in any column to column space or 20'-0" runs, non-cumulative.

E. Cut and trim component parts during erection only with the approval of the manufacturer or fabricator, and in accordance with his recommendations. Restore finish completely. Remove and replace members where cutting and trimming has impaired the strength or appearance of the assembly as directed.

F. Do not erect warped, bowed, deformed or otherwise damaged or defaced members. Remove and replace any members damaged in the erection process as directed.

G. Set units level, plumb and true to line, with uniform joints.

H. After installation, touch-up damaged finish with paint supplied by manufacturer to match original coating.

END OF SECTION 10 7113