

| Modular Awning System (MAS)

Suggested Specifications | Section 107300 MAS

Part 1 – General

1.1 Summary

- A. Provide fixed custom awnings 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 awning to be provided.
- C. Related sections include:
 - 1. Division 5 Metal Fabrication.

1.2 References

N/A

1.3 Submittals

- A. Product Data
 - 1. Submit specifications, data and installation instructions from the manufacturer of the awning system.
- B. Shop Drawings
 - 1. Include elevations, sections and specific details for each awning.
 - 2. Show anchorage details and connections for all component parts.
 - 3. Include signed and sealed calculations, prepared by a registered professional engineer.
- C. Samples
 - 1. Submit one sample minimum 24" long of each material to be utilized at each awning with appropriate finish.
- D. Submit color chips for approval.
- E. Warranty
 - 1. Construction Specialties to provide written warranty to the owner that all CS Platform Solutions will be free of defective materials or workmanship for a period of one year from date of installation.

1.4 Quality Assurance

- A. Single subcontract responsibility: Subcontract the work to a single firm that has had not less than ten years' experience in the design and manufacturing of work similar to that shown and required. **For quality and delivery control, awnings must be purchased from a single source. Sub-contracting of awning assembly is not acceptable.**
- B. Performance
 - 1. **Design awnings to accommodate local requirements for snow and wind loading. Provide engineering calculations to support design. Calculations to be by a registered engineer licensed in the state the project is located. Analysis to include all components of awning including but not limited to capacity and deflection. Deflection to be limited to L/120, 3/4", or as required by code.**
- C. Professional Engineer Requirements: Structural calculations to be signed and sealed by a professional engineer licensed to practice in the project state.
- D. Warranty: Provide written warranty to the owner that all products will be free of defective materials or workmanship for a period of one year from date of installation.

1.5 Delivery, Storage and Handling

- A. Delivery: At the time of delivery all materials shall be visually inspected for damage. Any damaged boxes, crates, louver sections, etc. shall be noted on the receiving ticket and immediately reported to the shipping company and the material manufacturer.

B. Storage:

1. Material may be stored flat, on end or on its side.
2. Material may be stored either indoors or outdoors.
3. If stored outdoors the material must be raised sufficiently off the ground to prevent it being flooded.
4. If stored outdoors the material must be covered with a weather-proof flame-resistant sheeting or tarpaulin.

C. Handling:

1. Material shall be handled in accordance with sound material handling practices and in such a way as to minimize racking.

Part 2 – Products**2.1 Manufacturers**

- A. The awnings and related materials herein specified and indicated on the drawings shall be as manufactured by: Construction Specialties, Inc. Melissa, TX
- B. Products equal to the Platform materials may be offered providing that the manufacturer and materials are pre-approved at least 10 working days before the bid date.

2.2 Materials

- A. Aluminum Extrusions: ASTM B211, Alloy 6063-T5, 6063-T6, 6005-T5, 6105-T5, 3003, 5005 or 6061-T6.
- B. Fasteners: Fasteners to 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.

2.3 Fabrication, General

- A. Provide fixed awnings and accessories materials, sizes, depths, arrangements and material thickness to be as indicated or as required for optimal performance with respect to strength; durability; and uniform appearance.
- B. Include supports, anchorage, and accessories required for complete assembly.

2.4 Awning Models**A. Platform MBS Awning System.**

1. **Outriggers:** 1/4" custom profile flat aluminum plate members, cut to match blade profile exactly.
2. **Infill:** [Project Specific]
3. **Fascia:** 2" x 8" Tube
4. **Diagonal Support:** 5/8" aluminum rod
5. **Mounting Bracket:**
 - i. Aluminum mounting bracket, by awning manufacturer. All fasteners mounting to structure to be designed and supplied by awning manufacturer. Fasteners to be stainless steel 300 Series.

2.5 Finishes

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" recommendations for applying and designating finishes.
Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in C. appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Baked-Enamel Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.
 1. Color and Gloss: [Black] [Brown] [White] [As indicated by manufacturer's designations] [Match Architect's sample] [As selected by Architect from manufacturer's full range] <Insert color and gloss>.

PART 3 – Execution

3.1 Examination

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

3.2 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 awnings to the building substructure as indicated on architectural drawings.
- D. Erection Tolerances:
 - 1. Maximum variation from plane or location shown on the approved shop drawings: 1/8" per 12 feet of length, but not exceeding 1/2" in any total building length or portion thereof (non-cumulative).
 - 2. Maximum offset from true alignment between two members abutting end to end, edge-to-edge in line or separated by less than 3": 1/16" (shop or field joints). This limiting condition shall prevail under both load and no-load conditions.
- 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.
- 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.

3.3 Protection

- A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.

3.4 Adjusting and Cleaning

- A. Immediately clean exposed surfaces to remove fingerprints and dirt accumulation during the installation process. Do not let soiling remain until the final cleaning.
- B. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to the material finishes. Thoroughly rinse surfaces and dry.
- C. Restore components damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by the Architect, remove damaged materials and replace with new materials.
 - 1. Touch up minor abrasions in finishes with a compatible air-dried coating that matches the color and gloss of the factory applied coating.

END OF SECTION 107300