**SECTION 10731-3**

**METAL AWNING**

**PART 1 – GENERAL**

* 1. **SUMMARY**

1. Section Includes: Pre-engineered, pre-finished standing seam metal panel awnings and metal awning frames.
2. Related Requirements: Division 1 – General Requirements

**1.2 REFERENCES**

1. The publications listed below form a part of this specification to the extent referenced. Publications are referenced within the text by the basic designation only.
2. American Welding Society (AWS):
   * 1. Standard D1.2 – Structural Welding Code – Aluminum
3. American Architectural Manufacturers Association (AAMA):
   * 1. Aluminum finishes AAMA 2603 standard for Powder Coat
     2. Aluminum finishes AAMA 2605 standard for Kynar 500
   1. **SUBMITTALS**
4. Submit within 15 days after contract award.
5. Shop Drawings: Indicate size, material and finish. Include plan elevation pages to clearly outline awning locations. Include installation procedures, details of joints, attachments and clearances. Provide lead time and note possible conflicts.
6. Color charts showing manufacturer’s full range of colors from standard line for both powder coated aluminum awning frames and approved sheet metal manufacturers.
   1. **WARRANTY**
7. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal canopies that fail in materials or workmanship within specified warranty period.
   * 1. Warranty Period: One year from date of Substantial Completion.
8. Special Warranty on Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal canopies that show evidence of deterioration of factory-applied finishes within specified warranty period.
   * 1. Finish Warranty Period: 20 years from date of Substantial Completion.

**PART 2 – PRODUCTS**

* 1. **APPROVED MANUFACTURERS**

1. Specifications are based on Architectural Fabrication, Inc. – Standing Seam Awning. Architectural Fabrication, Inc. – Manufacturer and Installer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. 800.962.8027. [www.arch-fab.com](http://www.arch-fab.com)
2. Substitutions are acceptable assuming they comply with these specifications, are submitted based on Section 01XXX – Substitution Requirements and have a minimum 10 years’ experience.
   1. **MATERIALS**
3. Framing: Aluminum Tube 6063-T52 alloy extruded aluminum. Fully welded with no open ends. All welds are to be ground smooth. Tubing size to be indicated in drawings, minimum 1” square for frame with a 1” x 2” framing member located for Z-Closure attachment.
4. Panel Material: Pre-finished Kynar coated 24ga sheet metal by Berridge, MBCI, Pac-Clad or equivalent. Standing seam panels to be formed 12” wide unless indicated otherwise in drawings. No exposed fasteners on or thru panels.
5. Hanger Rods (if applicable): Zinc plated steel and powder coat. Prime and paint are not acceptable. Wall plates for hanger rods are to be made of aluminum and powder coated to match.
6. Connections: Awnings are to be installed with either “Z” clips (an electro galvanized steel clip) powder coated to match. Other acceptable method is attach through the frame into the wall behind with the appropriate sized anchor.
7. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. All penetrations thru wall are to be sealed. See [www.arch-fab.com](http://www.arch-fab.com) website for installation videos for both connection details and standing seam awnings specifically.
8. Flashing & Z-Closure: Shall match skin material, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in clear or color match. Every panel to be fitted with a Z-Closure and hooked into the flashing. Flashing is to be turned down at each end as to provide a neat and closed end. Reglet cut flashing is required on all surfaces where a flashing can not be flush and sealed Ex. Stone and split face CMU. Other equivalent sealant is acceptable.
9. Snow guards (only if drawn or required per code): Provide polycarbonate snow guards, Sno Gem as basis of design or equivalent.
10. Finish: Powder coat finish per ASTM D 3451, complying with finish manufacturer’s written instructions for surface preparation including pretreatment, application, baking and minimum dry film thickness. Color to be selected from standard color line.

**PART 3 – EXECUTION**

* 1. FABRICATION

1. Fabricate and preassemble awnings in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

**3.2 INSTALLATION**

1. Install awnings per manufacturer’s written instructions and as indicated on drawings.
2. Locate and place awnings level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

**END OF SECTION**