

## **SECTION 07710**

### **MANUFACTURED ROOF SPECIALTIES**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Architectural Parapet, Coping, Cap Flashing.
- B. Metal Fascia System.
- C. Gravel Stops.

##### **1.02 RELATED SECTIONS**

- A. Section: 05300 – Metal Decking
- B. Section: 06100 – Rough Carpentry
- C. Section: 07500 – Membrane Roofing
- D. Section: [\_\_\_\_] – Wood Curbs.

##### **1.03 REFERENCES**

- A. ASTM A653: Steel Sheet, Zinc – Coated (Galvanized) by Hot Dip Process and Structural Physical Quality.
- B. ASTM A525: Steel Sheet, Zinc – Coated by the Hot Dip Process.
- C. ASTM B209: Aluminum and Aluminum Alloy Sheet and Plate
- D. SMACNA – Architectural Sheet Metal Manual.
- E. Factory Mutual I-90, for use in zone 1, 2 or zone 3 areas as referenced in F.M.R.C. approval guide.

##### **1.04 SUBMITTALS**

- A. Submit a sample of coping, gravel stop of fascia depicting finish, gauge texture of materials to be used.
- B. Submit shop drawings showing profiles, corner conditions, roof layout and special details.
- C. Submit manufacturer's catalog cuts and product literature.
- D. Manufacturer shall provide verification there system has been tested in accordance with Factory Mutual I-90 testing.

##### **1.05 QUALITY**

- A. No substitutions will be permitted after bid date.

B. Substitutions: Requests shall be in writing ten days prior to bid date and shall be submitted with product literature and samples.

C. Perform work in accordance with manufacturer's details.

D. Field measurements shall be taken by installer prior to fabrication.

E. Roof edge assembly shall be in accordance with F.M.R.C. loss prevention data sheet I-7 & I-49

## **1.06 DELIVERY, STORAGE AND HANDLING**

A. Delivering, storage and handling products to the site will be found under provisions of section [01600] – [\_\_\_\_\_].

B. Stack materials to prevent scratching, denting, abrasion or bending. Elevate one end of each skid to allow moisture run off.

C. Prevent contact with material that may cause discoloration, staining or corrosion.

D. Store materials in a dry safe place.

E. Any material have strippable film shall not be exposed to direct sunlight or extreme heat. All strippable film should be removed immediately after installation is complete.

F. Protect and stage work to prevent materials from damage by other trades.

## **1.07 WARRANTY**

A. All coping or gravel stop having a Kynar finish shall provide a 20 year finished warranty for the Coil coated paint finish covering cracking, checking, blistering, peeling, flaking, chipping, chalking and fading.

B. Provide a 5-year warranty for materials that have been spay coated or coated after the fabrication process.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

A. Castle Metal Products (847-806-4540) or an approved equal.

### **2.02 MATERAILS**

Edit for product specification

A. Pressure-Loc Single Ply Gravel Stop: Fabricated from aluminum or steel [\_\_\_\_\_] inch ([\_\_\_\_\_] mm) thick with a Kynar 500 coated finish. Provide a continuous hold down cleat.

1. Accepted by Factory Mutual for zone 1, 2 and zone 3 as specified in manufacturer's product literature.

## **2.03 ACCESSORIES**

- A. Sealants: (Same as specified in section [07900]).
- B. Corners: All aluminum corners are to be welded and touched-up.
- C. Corners: All 24ga. Galvanized steel corners are to be Quick-Locked to prevent rusting.
- D. Extenders and End Caps: Fabricate from the same material as the Kynar 500 sheet metal.

## **2.04 FINISHES**

A. Aluminum: [\_\_\_\_] Finish [as selected].

1. Mill Finish: AA-M10 (Unspecified mill finish) standard mill finish provided by manufacturer.
2. Class II Clear Anodized Finish: AA-C22A31 (medium matte etched with a minimum of 0.4 mil-thick anodic coating).
3. Class II Colored Anodized Finish: AA-C22A31 (medium matte etched finish with a minimum 0.4 mil-thick, electrolytically colored anodic coating). (2 step)
4. Class 1 Clear Anodized Finish: AA-C22A41 (medium matte finish with minimum 0.7 mil-thick anodic coating).
5. Class 1 color Anodized Finish: AA-C22A44 (medium matte etched finish with minimum 0.7 electrolytically colored anodic coating). (2-Step)
6. Fluorocarbon Coating: Color as selected from manufacturer's standard color chart. Inhibitive thermo-cured primer, minimum 0.3 mil dry film thickness, and thermo-cured fluorocarbon coating containing "Kynar 500 or Hylar 5000 resin, minimum 1.0 dry film thickness.
7. Custom Color: Fluorocarbon 2 coat coating system, standard 2-coat thermo-cured system, composed of specially formulated inhibitive primer and Kynar custom color top coat, containing not less than 70 percent polyvinylidene resin by weight; complying with AAMA605.2

B. 1. Pre-coated Steel: 24ga. Color as selected from manufacturer's standard color chart.

Fluorocarbon Coating: Color as selected from manufacturer's standard color chart. Inhibitive thermo-cured primer, minimum 0.3 mil dry film thickness, and thermo-cured fluorocarbon coating containing "Kynar 500 or Hylar 5000 resin, minimum 1.0 dry film thickness

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

A. Verify that deck, curbs, roof membrane, base flashing and other items affecting work of this section are in place and positioned correctly.

B. Installer shall examine all substrates on which work is to be applied. Any surface not suitable for application coping, gravel stop of fascia shall be conveyed in writing to the architect.

### **3.02 INSTALLATION**

- A. Install components in accordance with manufacturer's instructions.
- B. Conform to standard set forth in the SMACNA Architectural Sheet Metal Manual.
- C. Coordinate installation of components of the section with installation of roofing membrane and base flashing.
- D. Install coping systems hold down cleats with 4 top fasteners and 2 face fasteners (refer to manufacturer's installation guide).
- E. Install fascia or gravel stop hold down cleat with a fastener every 12 inch top and face (refer to manufacturer's installation guide).
- F. Accommodate expansion by leaving a 3/16-inch gap at every joint.
- G. Mechanically fasten every fifth coping to control thermal expansion.
- H. Remove all protective vinyl masking on coping, fascia or gravel stop immediately after installation.

### **3.03 CLEANING**

- A. Dispose of excess materials and debris from the job site.
- B. Thoroughly clean and touch-up any areas scarred during installation with a touch-up paint (contact manufacturer for procedures).

### **END OF SECTION**