

**SECTION 10 73 20  
AWNINGS AND CANOPIES**

**PART 1 - GENERAL**

**1.1 DESCRIPTION OF PRODUCT**

- A. Floline 100 Series Awning – a wall mounted awning/canopy system.

**1.2 REFERENCES**

- A. REFERENCE STANDARDS:
1. ASTM – A653, A792, A924, A36
  2. AWS – American Welding Society

**1.3 SUBMITTALS**

- A. Submit approval drawings and calc books, both signed and sealed by a Professional Engineer licensed in the state where the project is located.
- B. PRODUCT DESIGN REQUIREMENTS:  
The canopy shall meet the following design requirements as shown on the drawings:
1. Building Code: See drawings.
  2. Ground Snow Load (Pg): See drawings.
  3. Basic Wind Speed (V): See drawings.
  4. Seismic Design: See drawings.
- C. SUBMITTAL REQUIREMENTS: Calculations and Submittal drawings shall include, at a minimum:
1. Calculations:
    - a. References to building codes and design manuals used for calculations.
    - b. Formulas used for determining snow, wind, and seismic loads to specific project location.
    - c. Connection design for anchorage to the building.
  2. Submittal Drawings shall specify and indicate:
    - a. All materials and finishes to be applied.
    - b. Canopy framing.
    - c. Panel lay-out.
    - d. Methods of anchorage, including structural connection details showing bolt sizes and plate thicknesses.

**1.4 QUALITY ASSURANCE**

- A. MANUFACTURER QUALIFICATIONS:
1. Company specializing in engineering and manufacturing pre-engineered canopies with a minimum experience of ten (10) years.

**1.5 MANUFACTURER WARRANTY**

- A. Kynar coated canopy panels and trim fabricated from pre-finished coil stock must have a 20-yr limited warranty on paint finish.

## PART 2 – PRODUCTS

### 2.1 CANOPY SYSTEM AND MATERIALS

#### A. MANUFACTURERS:

1. Acceptable Manufacturer: Floline Architectural Systems, LLC, 25523 Ruff Street, Plainfield, IL 60585; Phone (630) 922-7879; Fax (630) 922-0880; [www.flolinesystems.com](http://www.flolinesystems.com) Receive pricing from the corporate office, 25523 Ruff Street, Plainfield, IL 60585; Phone (630) 922-7879; Fax (630)-922-0880

#### B. SUBSTITUTION LIMITATIONS:

1. Substitutions must be approved a minimum of ten (10) days before bid. All approved manufacturers shall be notified in writing before the bid date and shall not be allowed to bid without written notification.

#### C. PRODUCT REQUIREMENTS AND MATERIALS:

1. GENERAL: The Floline 100 Series Awning shall be a pre-engineered field assembled system consisting of shop assembled triangle frames, loose angle, panels, trims, and fasteners.

#### 2. CANOPY FRAMING:

- a. Galvanized angle framing fabricated from light gauge coil or sheets conforming to ASTM A653 fastened with mechanical fasteners
- b. Structural framing fabricated from steel angle conforming to ASTM A36, welded connections on triangle frames, bolted connection on loose angles, all hot dipped galvanized.

#### 3. WALL CONNECTION REQUIREMENTS:

- a. Structural fasteners thru canopy frame shall be hot dipped galvanized A307 bolts/anchors or 300 series stainless steel bolts/anchor as determined by the manufacturer.
- b. Exposed fasteners or bolts going thru Kynar coated sheet metal shall be painted by the manufacturer prior to shipment to match the awning/canopy color.
- c. Exposed fasteners or bolts going thru unpainted framing or sheet metal shall be left bare.

#### 4. SHEET METAL

- a. Roof Panels and End Wall Panels to be Floline 900 profile: 1-1/2 inch (38 mm) deep with ribs spaced 5.9 inches (150 mm) on center; nominal cover width of 35.4 inches (900 mm)
  1. Substrate and material thickness:
    - a. Steel in 22 or 24 gauge
  2. Paint finish: Kynar 500® paint on topside only. Color chosen from manufacturer's standard color chart.
- b. Soffit Panels to be Floline's 1" deep x 12" wide flush panel
  1. Substrate and material thickness:
    - a. Steel in 22 or 24 gauge
  2. Paint finish: Kynar 500® paint on topside only. Color chosen from manufacturer's standard color chart.
- c. Sheet metal components
  1. Provide accessories and other items essential to completeness of canopy installation as shown on drawings.
  2. Form pre-painted components from same gauge and finish as metal panels, unless otherwise noted.

#### 5. FINISHES:

- a. KYNAR 500® FINISH ON SHEET METAL

1. Full Strength Kynar 500®/Hylar 5000 (contains a minimum 70% Kynar/Hylar polyvinylidene fluoride (PVDF) resins) premium fluouropolymer coating system of 1.0 (± 0.1) mil total dry film thickness. For additional protection a wash coat of 0.3 -0.4 mil dry film thickness is applied to the reverse side.

## **PART 3 – EXECUTION**

### **3.1 INSTALLERS STORAGE AND HANDLING**

- A. Inspect delivered materials upon receipt to insure no damage has occurred during shipment.
- B. Protect canopy system after arrival at destination from weather, sunlight, and damage.
- C. Installer shall store canopy system elevated from soils to allow air circulation and to not introduce mold, fungi decay or insects to the product.
- D. Pre-painted products must be handled with protective straps or padded forks if lifting with mechanical equipment. Use of chain or cable to lift product into place will not be accepted.

### **3.2 ERECTION**

- A. Install canopy system according to manufacturer's installation instructions, approved shop drawings, and these specifications.
- B. Remove any strippable film at time of installation.
- C. The general contractor shall be responsible for protecting the canopy system from construction operations and abuse by other trades.

### **3.3 REPAIR**

- A. Do not attempt any field changes without first contacting the manufacturer.

### **3.4 CLEANING**

- A. Prevent rust staining by immediately removing from finished surfaces any filings caused by drilling or cutting
- B. All dirt oil, grease, fingerprints, or other contaminants shall be removed after installation is completed.
- C. Follow manufacturer's recommended cleaning and maintenance instructions.

**END OF SECTION**