

**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, 16108 S. Rt 59, Ste 108, Plainfield, IL 60586; Phone (866) 356-5463; Fax (815) 733-6999; www.flolinesystems.com
Receive pricing from the corporate office, 16108 S. Rt 59, Ste 108, Plainfield, IL 60586; Phone (866) 356-5463; Fax (815) 733-6999

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.
- c. Structural framing fabricated from extruded aluminum angle (6061 alloy) fastened with stainless steel mechanical fasteners.

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, or 900 Series 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 fluoropolymer 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