

SECTION 10536
FABRIC AWNINGS

Staple System Awnings

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

A. Drawings and general provisions of the contract, including General and Special Conditions, apply to the work of this section.

1.02 DESCRIPTION OF WORK:

A. The extent of awning work is indicated on drawings and by provisions of this section.

1.03 QUALITY ASSURANCE:

A. General: Provide awning units which are complete assemblies, produced and installed by one manufacturer/fabricator. All structural framework and fabric elements are single source responsibility of the awning contractor.

B. Fabricator's Qualifications: Where indicated units require custom fabrication, provide units fabricated by shop which is skilled, and with a minimum of ten (10) years of experience in similar work. Fabricate all custom equipment items at same shop. Where units cannot be fully shop fabricated, complete fabrication work at project site.

C. Awning contractor to be licensed to such a standard as indicated by the building department where the work is being applied for. The qualifier must be a partner/owner of the company and be involved in the day to day operations.

D. Special considerations and concessions to be provided to those companies who hold a current CGC, CBC or MFC (Master Fabric Craftsman) license in conjunction with any awning specialty licenses for awning fabrication and/or installation. This concession may be expressed as a 10% above the next highest bidder.

E. Awning contractor must be a member of the Professional Awning Manufacturers Association

F. Awning contractor must supply their current contractor score from <http://www.contractorscore.net/> to be considered for projects. A score of 650 or higher shall be necessary.

1.04 SUBMITTALS:

A. Shop Drawings: Submit shop drawings for all components and application conditions of awning units which are not fully dimensioned or detailed in product data. Show relationships to adjoining work. Provide sections and details at connections and corners. Provide schedule of all units to be furnished, including field measurements at each location.

B Samples: For initial selections, submit color charts showing full range of colors and actual fabric samples available for each awning assembly.

1.05 WARRANTY:

A. Awning Manufacturer to guarantee workmanship from failure for a period of two (2) years.

B. Awning Manufacturer to guarantee fabric seams, both sewn and sealed, for a period of five (5) years.

C. Original manufacturers fabric warranty period to be ten (10) years for non flame retardant acrylic fabric, five (5) years for all other fabrics, from the date of final installation.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

A. Contractors listed on www.awningresources.com shall be deemed acceptable assuming that prior qualifications are met. If no suitable manufacturers are within 60 miles of the project site, visit www.awninginfo.com as a potential source.

B. Manufacturer: Subject to compliance with requirements, provide products of the following:

2.02 MATERIALS:

A. Awning fabric: Woven acrylic fabric, made of 100% acrylic solution dyed fibers with a fluorocarbon finish. Typical weight to be approximately 9 oz. per square yard OR Vinyl laminated polyester fabric. 15 oz. per sq. yd. with mildew and UV inhibitors. Flame resistance meets or exceeds the standards of California state fire marshal, NFPA-701 TM2, and ASTM E-84 class A flame spread OR Solution dyed plain weave acrylic at 8.75 oz. per sq. yd. with mildew and UV inhibitors. Flame resistance meets or exceeds the standards of California state fire marshal Title 19 and NFPA-701-99 Test method II.

B. All seams to be heat sealed using Wedge Welder Technology. Seams not possible for heat sealing are to be sewn.

C. Thread: Clear PTFE single core or braided thread. Size: Minimum of 92

D. Grommets: Zinc Coated Brass # 2 Spur grommets. 6" O.C. Spacing

E. Lacing Rope: Polyester Diamond Braided No. 4, white or black only.

F. Ferrous & Non Ferrous Metals:

1. Aluminum Pipe: Square profile – “Milliken Distribution” tubing or approved equal.

2. Steel tubing: Corrosion resistant galvanized tubing, "GatorStitch" tubing or approved equal.

G. Paint: Frames to be Powder Coated using “Tiger Drylac Polyester Powder Coatings” Color to be chosen from standard color chart.

H. Expansion Anchors: Galvanized Carbon Steel anchors shall be a pre-assembled wedge/expansion style or sleeve style anchors with a hex head. Components shall be plated according to ASTM specification B63, SCI, Type III. "LOK/BOLT" by Powers Fasteners or approved equal. If within one mile of salt based waters, Stainless Steel anchors as described above shall be used.

I. Graphics (if applicable): 3M™ Scotchcal™ ElectroCut™ Graphic film, applied with the Sunbrella Graphics System (SGS) Machine, by a Certified Sunbrella Graphics System Manufacturer. Screen printing will not be accepted.

2.03 FABRICATION GENERAL:

A. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

B. Awning Framework: Use materials of size and thickness as required to produce strength and durability in finished product for use intended. Work to dimensions indicated or accepted on shop drawings, using proven details of fabrication and support. Use type of materials indicated or specified for various components of work.

1. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges. Maintain cross-section of pipe and tubing. Crimped pipe ends, fitting and tee connections are not acceptable.

2. Weld corners and seams continuously, complying with AWS recommendations. Grind and brush all welds. Brazed welds are not acceptable.

3. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible.

4. Provide for anchorage of type shown, coordinated with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.

2.04 STAPLE CHANNEL ENCLOSURE TRIM

1. PVC or like material spline is to be used to cover all staple seams

2.05 STAPLES

1. Staples to 18 gauge, 3/8" or greater in length and 5/16" width galvanized or stainless steel.

PART 3 - EXECUTION

3.01 INSTALLATION

A. General: Install awning units in manner indicated to comply with manufacturer's instructions. Position units level, plumb, secure, at proper height and location relative to adjoining window units, openings and other related work. Securely anchor units with proper clips, brackets, anchorages, suited to type of mounting indicated.

B. Provide adequate clearances between fabric awning framework and structures to permit unencumbered operation of hardware.

C. Attach fabric to frame work as recommended by manufacturer, using lacing techniques as required to conceal ends of lacing and to assure proper fit of fabric to frame. Each grommet shall be lock laced, except on the double lugs, as ship lacing will not be accepted.