Flagpole Specifications
Section 107500 (103500) - Flagpoles

External Single Stationary - Ground Set Flagpole

PART 1 – GENERAL

1.1 SUMMARY/DESCRIPTION
A. Scope of Section: Provide aluminum flagpole(s) as shown on drawing and as specified herein, with components as needed for a complete installation.

1.2 PERFORMANCE REQUIREMENTS
A. Structural Performance: Provide flagpoles capable of withstanding the effects of wind loads as determined according to NAAMM FP 1001-07, “Guide Specifications for Design of Metal Flagpoles”, or to specified wind speed, whichever is more stringent.
B. Flagpole Design: Base design on maximum standard size nylon flag suitable for use with pole or flag size indicated, whichever is more stringent.

1.3 SUBMITTALS
A. Product Data: For each type of flagpole required, submit manufacturer’s technical data and standard installation instructions.
B. Shop Drawings: Show general layout, jointing, anchorage, support systems, and accessories.
C. Samples: Finish samples for each finished metal used on flagpoles, as may be required.

1.4 QUALITY ASSURANCE
A. Source: Obtain each flagpole as a complete unit from American Flagpole, including fittings, accessories, bases, and anchorage devices.

1.5 DELIVERY, STORAGE, AND HANDLING
A. General: Spiral wrap flagpoles with a heavy Kraft paper or other lightweight wrapping and enclose in a hard fiber tube or other protective means. Store bare flagpoles in a dry location, protected from the weather and moisture, as recommended by the manufacturer.
B. Shipping: Ship to project site in one piece or as specified. If more than one piece is necessary, provide snug fitting precision joints with self-aligning, internal splicing sleeve arrangements for weather tight, hairline field joints.

PART 2 – PRODUCTS

2.1 MANUFACTURER
A. Manufacturer, subject to compliance with requirements, shall be:

American Flagpole
26252 Hillman Highway
Abingdon, VA 24210
1.855.530.4078 (telephone)
1.276.676.3090 (fax)
http://www.americanflagpole.com
2.2 FLAGPOLE TYPE AND CONSTRUCTION
A. Aluminum Flagpole Construction
Fabricate from seamless, extruded tubing complying with ASTM B 221, alloy 6063-T6, having a tensile strength not less than 30,000 psi with a yield point of 25,000 psi. Heat treat after fabrication to comply with ASTM B 597, temper T6.
1. Provide cone-tapered flagpoles, per manufacturer’s standard rate of taper.

2.3 MOUNTING
A. Foundation Tube: PVC foundation tube, Schedule 40 minimum, sized to suit flagpole and installation.

2.4 FITTINGS
A. Finial (Ornament): Finial sized as indicated or, if not indicated, to match pole butt diameter. See Specification Drawing for Type and Size of Finial Specified.
B. Single Stationary Truck Assembly: Cast aluminum non-fouling with single pulley and pin, provided with three set screws for attachment to pole.
C. Halyard: Provide one (1) continuous 5/16” (#10) polypropylene halyard.
D. Halyard Flag Snaps: Provide two (2) stainless steel swivel snap hooks with neoprene covers.
E. Cleat(s): Provide one (1) heavy-duty cast aluminum cleat (9") with ¼“-20NC flat head stainless steel self-tapping screws. See Specification Drawing for Optional Halyard Security Choices.

2.5 MISCELLANEOUS MATERIALS
A. Concrete: Comply with requirements of Division 3 Section “Cast in Place Concrete”.

2.6 FINISHES
A. Metal Finishes, General: Comply with National Association of Architectural Manufacturers’ (NAAMM) “Metal Finishes Manual for Architectural and Metal Products” for recommendations for applying and designating finishes.
C. Finish Specifications (Satin, Anodized, and Powder Paint Finishes). Note: Aluminum Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
   a) Natural Satin Finish: Provide directional-sanded satin finish (AA-M33); buff complying with AA-M20.
   b) Anodized Finishes: Provide Class 1 finish complying with AA M32-C22-A41 (Clear Anodized) or AA M32-C22-A42 (Color Anodized Finishes) in thicknesses ranging from 1 to 3 mils.
      i) Anodized - Clear (AA)
      ii) Anodized - Light Bronze (AB)
      iii) Anodized - Medium Bronze (AC)
      iv) Anodized - Dark Bronze (AD)
      v) Anodized - Black (AE)
c) Powder Coated Finish: Thermo-set Polyester Powder Coated Finish, with a minimum thickness of 1-½ mils. Application shall be in a closed loop automated powder coating system to insure uniformity and quality of finish.
   i) Powder Paint – Clear (BZ)
   ii) Powder Paint – Light Bronze (BN)
   iii) Powder Paint – Medium Bronze (BO)
   iv) Powder Paint – Dark Bronze (BM)
   v) Powder Paint – Black (BA)
   vi) Powder Paint – White (BH)
   vii) Powder Paint – Dark Green (BV)
   viii) Powder Paint – Gray (BE)
   ix) Powder Paint – Sparkle Silver (EP)
   x) Powder Paint – Specify (XX)

PART 3 – EXECUTION

3.1 PREPARATION

A. Excavation: For foundations, excavate to neat clean lines in undisturbed soil. Remove loose soil and foreign matter from excavation and moisten earth before placing concrete.

B. Foundation: Provide forms where required due to unstable soil conditions and for perimeter of flagpole base at grade. Secure forms and PVC steel ground sleeve foundation tube in position, braced to prevent displacement during concreting. Place concrete immediately after mixing. Compact concrete in place using vibrators. Moist-cure exposed concrete for not less than 7 days or use a non-staining curing compound. Trowel exposed concrete surfaces to a smooth, dense finish, free of trowel marks and uniform in texture and appearance. Provide positive slope for water runoff to base perimeter.

3.2 FLAGPOLE INSTALLATION

A. General: Install flagpoles where shown and according to shop drawings and manufacturer’s written instructions.

B. PVC Ground Sleeve Installation: Insert flagpole into installed PVC foundation tube, turn to align truck assembly with the wind, plumb pole by filling remaining void with tamped dry sand. Seal top of foundation tube with a 2-inch (50 mm) layer of cement or waterproof compound and cover with flashing collar. Caulk collar perimeter.