

SPEC NOTE: This Section 10 75 00 has been renumbered to meet the recommendations of the MasterFormat 2004 classification system. Prior to January 2005, this NMS section was numbered Section 10350 - Flagpoles in accordance with MasterFormat 1995.

SPEC NOTE: DESCRIPTION: This Section specifies the materials, accessories, fabrication and installation for steel, aluminum and fibreglass flagpoles.

SPEC NOTE: ENVIRONMENTAL: This Section specifies environmentally responsible material choices, including recycling and reuse options, and generally available disposal options.

SPEC NOTE: Ensure drawings indicate height and diameter at butt and tip of flagpoles, including setting depth (for ground set poles). Setting depth is normally 10% of exposed height or minimum 915 mm, whichever is greater.

1 GENERAL

1.01 SECTION INCLUDES

- .1 Materials, fabrication and installation for steel, aluminum and fibreglass flagpoles.

1.02 RELATED SECTIONS

- .1 Section [01 33 00 - Submittal Procedures].
- .2 Section [01 74 19 - Construction/Demolition Waste Management And Disposal].
- .3 Section [01 61 00 - Common Product Requirements].

1.03 REFERENCES

SPEC NOTE: Edit the following paragraphs to suit specific project.

- .1 The Aluminum Association (AA).
 - .1 AA DAF-45-[R03], Designation System for Aluminum Finishes - 9th Edition.
- .2 Canadian Standards Association (CSA International).
 - .1 CAN/CSA-G164-[M92 (R1998)], Hot Dip Galvanizing of Irregularly Shaped Articles.
- .3 The Master Painters Institute (MPI).
 - .1 Architectural Painting Specification Manual - [March 1998 (R2002)].

1.04 DESIGN REQUIREMENTS

- .1 Flagpole, bases and anchorage devices to resist minimum wind velocity of [145] [_____] km/h unflagged, [100] [_____] km/h flagged.
- .2 Description:
 - .1 Model: [_____].
 - .2 Exposed Height: [_____].
 - .3 Butt Diameter: [_____].
 - .4 Top Diameter: [_____].

1.05 SUBMITTALS

- .1 Submit product data in accordance with Section [01 33 00 - Submittal Procedures] [_____].
- .2 Submit manufacturer's technical data and installation instructions for each type of flagpole.
- .3 Submit shop drawings in accordance with Section [01 33 00 - Submittal Procedures] [_____].
 - .1 Indicate dimensions, finishes, base jointing, anchoring and support systems, cleats, halyard boxes, trucks, finials and base collar for flagpoles.
 - .2 Submit [_____] copies of shop drawings of flagpoles and bases, showing general layout, jointing and complete anchoring and supporting systems.

2 PRODUCTS

SPEC NOTE: Refer to flagpole manufacturer's literature when selecting material, fabrication, mounting and fitting specification paragraphs. Metal thicknesses of tubular sections are not specified as this should be determined by pole manufacturer to meet design requirements. If this design requirements paragraph is not included in project specifications, add metal thickness required.

2.01 MATERIALS

SPEC NOTE: Refer to ASTM A 53/A 53M for type and grade.

- .1 Steel: standard weight seamless steel pipe to [ASTM A 53/A 53M] [type S] [type E] [type F] grade, [A] [B] [B or better], [galvanized] [shop painted] [shop primed] finish.
- .2 Galvanized steel: hot dipped galvanizing with minimum zinc coating [610] [_____] g/m² to [CSA G164] [_____].
- .3 Stainless steel: seamless stainless steel tubing, [AISI type 304] [ASTM A 480/A 480M No. 4 Finish].

2.02 FABRICATION

- .1 Supply [_____] mm long flagpole as complete unit including [base] [mounting brackets] anchorage and fittings.
- .2 Cone tapered flagpole:
 - .1 Seamless, uniform, straight line tapered section above cylindrical butt section.

SPEC NOTE: Use 25 mm to each 2200 mm for steel and 25 mm to each 1700 mm for aluminum. Use manufacturer's standard taper for other materials. If special taper required, show detail on drawings.

- .2 Taper: [_____] mm of run.
- .3 Provide internal splicing, self-aligning sleeve of same material as flagpole for snug fitting, watertight field joints.

2.03 ACCESSORIES

SPEC NOTE: Use aluminum copper or bronze fittings for steel poles. Use only aluminum fittings for aluminum poles, and monel fittings for stainless steel poles.

SPEC NOTE: Select metals for fittings to prevent damage or discolouration caused by electrolytic action.

- .1 Finial: [] mm diameter ball of 1.6 mm minimum thick, [aluminum] [stainless steel], [copper] [anodized] [painted] colour [] [to match flagpole finish].
- .2 Truck assembly: [cast aluminum] [cast iron, galvanized] [stainless steel], stainless steel ballbearing, nonfouling, revolving double truck assembly, [finish to match flagpole] [].

3 EXECUTION

3.01 INSTALLATION

- .1 Shop apply isolation coating to metal surfaces of flagpole [and base] [] that will be [encased in concrete] [below grade level].
- .2 Install flagpoles, [base assemblies] [wall brackets] [roof assemblies] and fittings to shop drawings and manufacturer's instructions.

SPEC NOTE: Lightning protection for ground set poles is normally a ground spike below foundation sleeve plate. Specify special lightning protection in Division 16.

- .3 Provide ground stakes [] mm long, for positive lightning ground for each [ground set] [] flagpole installation.
- .4 Check and adjust installed fittings for smooth operation of halyards.

END OF SECTION