

PLANS AND SPECIFICATIONS / FLAGPOLE

Project title	Section 10 75 00 Flagpole
Project location	Flagpole
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1. GENERALITY

1.1. Summary

Section Contents

- Supply and installation of (number) flagpoles (from the company **Tecnima VL** or equivalent), the pre-cast concrete base and its grounding and accessories;
- Any other additional work required.

Related requirements

- Pre-cast concrete base – according to standards relating to the flagpole;
- Excavation and backfilling, structure.

References

Design flagpoles, their bases, and anchoring devices to withstand winds of at least **MA21-5 or MA25-5 150 km/h or MA-30-5 130 km/h** without flag, and 100 km/h with flag.

1.2. Documents to be submitted

Workshop drawings

- Submit, for approval, shop drawings in accordance with the requirements;
- The workshop drawings must illustrate dimensions, finishes, assembly details;
- On the base, and details of the anchoring and support systems, cleats, halyard boxes, finials and base collar of the flagpoles;
- The workshop drawings must bear the seal and signature of a structural engineer who is a member of the OIQ and must be accompanied by a text confirming that the flagpole and its base comply with the wind resistance requirements of this section, as for stability of the base with respect to movements due to freeze/thaw cycles.

Quality assurance

- a) Use the services of a specialized company to carry out the work in this section.

1.3. Transport - Storage - Handling

- a) To protect it, wrap strong "kraft" wrapping paper in a spiral around the flagpole;
- b) Storage must be done in a safe and dry place, in order to ensure the integrity of the material. It is suggested to remove the packaging on the flagpoles (kraft paper), in order to ensure that no discoloration of the paper is transferred to the aluminum;
- c) Deliver the (number) flagpole(s) in 1 piece with its hardware.

1.4. Warranty

- a) Issue, for the benefit of the project owner, a certificate guaranteeing the works of this section against any defect, including those affecting the finish or operation, for a period of one (1) year.

2. PRODUCTS

2.1. Materials

- a) Aluminum: Seamless tube, extruded aluminum, AA alloy 6063-T5 of the Aluminum Association;
- b) Exposed surfaces of aluminum elements: Finished according to the Aluminum Association Designation System for Aluminum Finishes – 1980;
- c) Finish: Brushed natural, 100-grit sandblasted. OR Finish: Baked paint, color _____
(Enter the desired color).

2.2. Manufacturing and assembly

- a) Flagpole from the company Tecnima VL or equivalent type MA-21-5 of 6096 mm / MA-25-5 of 7010 mm / MA-30-5 of 8534 mm long with base, anchors and fittings.

2.3. Conical Flagpol for flag

- a) Straight, uniform, seamless conical element, mounted on a cylindrical section;
- b) Diameter: minimum 127 mm at the base and minimum 76.2 mm at the top;
- c) Aluminum baseplate with hinge system, removable;
- d) Welding work performed in accordance with CSA standards, by welders recognized by the Canadian Welding Bureau; visible flush and smooth welds.

2.4. Accessories

- a) Decorative head: 165.1 mm diameter ball, made of 1.6 mm thick aluminum, brushed natural, color matching the finish of the flagpole;
- b) Internal 6.35 mm Nylon harlard system; including a locked cleat box, provide two (2) keys;
- c) Aluminium counterweight, with UHMW strap and stainless steel eyelets;
- d) UHMW Head pivot, aluminum and stainless steel pivot;
- e) Base cover 305 mm diameter spun aluminium, thick 2.4 mm aluminium, brushed natural, colour matching the flagpole finish.

2.5. Prefabricated elements

- a) Concrete base: PA2-6 from **Tecnima VL** or equivalent, to the most recent CAN/CSA A23.1/A23.2 standards, 35 MPa, air percentage of 5 to 8%, do not add calcium to the concrete, AGGREGATES: maximum diameter of $\frac{3}{4}$ ", stones not reactive to alkalis;
- b) Bolting 5/8-11, 20"x4", projection 76MM (3"), ASTM A-307 steel partially galvanized, C.B. 178MM (7");
- c) Frame must be clean, CAN/CSA G30.18, 400 MPa crenelated steel bar.

3. EXECUTION

3.1. Installation

- a) Install the flagpole, base and accessories in accordance with the workshop drawings and the manufacturer's instructions;
- b) Install the base cover.

3.2. Adjustment and setting

- a) Check and adjust the accessories after installation and ensure that the halyards operate smoothly.

END OF SECTION