

SPECIFICATION NOTE: This combined metric and imperial specification is written in accordance with Construction Specifications Canada (CSC) Three-Part Section Format. Square brackets [] indicate choice, alternatives, data required or need for the specifier to make a decision.

PART 1- GENERAL

WORK IN-CLUDED

Provide labour, materials and other services to complete the fabrication and installation of the picket railings systems, including all materials and components required for the operation of any window units included, in the manner, direction and performance shown on the shop drawings and specified herein.

QUALITY ASSURANCE

Drawings and specification of this section are based on Picket Railings manufactured by Cahill Commercial. Whenever alternative products are offered, submit supporting technical literature, samples, drawings and performance data for comparison 1 day prior to tender closing date. Work of this trade shall be executed by a company with a minimum of 5 years proven first class experience in this type of work, having adequate equipment and skilled personnel to expediently complete the job in an efficient and workmanlike manner.

SHOP DRAWINGS

All work of this section shall be executed in strict accordance with engineered shop drawings. These shall be complete details of all conditions, construction and interfacing.

SAMPLES

Submit one representative model and one cut-away corner sample of each type aluminum railing section.

SUPPORT

Designed shop drawings will provide railing systems that resist all wind loads as per Ontario Building Code. Railing Systems are also self-supported.

MAINTENANCE DATA

Provide maintenance data for maintenance and cleaning in accordance with instructions under General Conditions.

WARRANTY

The work of this division shall be guaranteed against defects of materials and workmanship for a period of 1 year following the date of delivery.

PROTECTION

Protect adjacent surfaces from damage resulting from work of this trade.

PART2-PRODUCTS

MATERIALS

Aluminium broken sections of 6063-T5 alloy, minimum 1.6mm wall thickness. Posts sections of 6061-T6 alloy, minimum wall thickness of 2.0mm [COLOUR] [HEIGHT] [ANODIZATION]

FASTENERS

Non-magnetic, stain and corrosion resistant stainless steel to ASTM E-149, class 304.

FABRICATION

GENERAL

Fabricate entire railing in a manner that will allow easy replacement of any defective, damaged or worn components, hardware or weather-stripping.

FINISH

Comply with Aluminum Association Designation System for Aluminum Finishes. Provide Clear anodized finish, designated [AA-A41 class I 18um (.0007")] [AA-A31 class 2 10um (.0004")] finish

OR

Provide AA-A44 [standard bronze} [light bronze] [black} Alumanodic II electrolytic anodized class I 18um (.0007") finish.

OR

Provide a factory applied thermosetting fluoropolymer coating in accordance with American Architectural Manufacturers Association specification AAMA 6052, to all exposed aluminum sections. Colour shall match... (Specifier provides color reference number).

PART 3 - EXECUTION

PREPARATION

Protect adjacent surfaces from damage resulting from work under this specification.

INSTALLATION

All railing shall be installed and adjusted by personnel having a minimum 5 years proven experience and in accordance with the manufacturer's instructions and approved shop drawings. All items in this section shall be set in their correct location and shall be set level, square plumb and at proper elevations and alignment with other work.

PROTECTION AND CLEANING

Aluminum shall be isolated from concrete, mortar, plaster and dissimilar metals with bituminous paint or epoxy solution.

Framing shall be protected from other building materials during and after installation until acceptance by the General Contractor. Thereafter, it shall be the responsibility of the General Contractor to maintain protection and provide final cleaning.