

## **PART 1- GENERAL**

### **WORK IN-CLUDED**

Provide labour, materials and other services to complete the fabrication and installation of the glazed railings, 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 Glazed Railings manufactured by Cahill railings. Whenever alternative products are offered, submit supporting technical literature, samples, drawings and performance data for comparison 5 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 show complete details of all conditions, construction and interfacing.

### **SAMPLES**

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

### **SUPPORT**

Designed shop drawings will provide railing systems that resist all loads as per Ontario Building Code and the supplementary standard for glass in guards SB-13.

### **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**

Aluminum sections made of 6063-T5 alloy, minimum 1.6mm wall thickness. Posts are composed of 6061-T6 alloy with a minimum wall thickness of 2.0mm. [COLOUR] [ANODIZATION]

Glass and glazing materials.

Single pane glass panels of 6mm tempered, heat soaked clear glass. Width to conform to Ontario Building Code and the supplementary standard for glass in guards SB-13. Choice of added [strength], [tinting] and [lamination] if required.

### **FASTENERS**

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

### **FABRICATION**

#### **GENERAL**

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

#### **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] electrolytic anodized class I 18um (.0007") finish.

OR

Provide a factory applied thermosetting fluoropolymer coating in accordance with American Architectural Manufacturers Association specification AAMA 2603, 2604, 2605 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**

Railings shall be installed, glazed 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.