

**VISTA ALUMINUM RAILINGS  
RAILING SYSTEM SPECIFICATIONS  
SECTION 05720 - ORNAMENTAL HANDRAIL AND RAILING**

**MANUFACTURER**

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**PRODUCT DESCRIPTION**

Vista aluminum railing is a versatile railing system designed for use on both single family and multi-family applications. Vista aluminum railings are designed and tested to meet the following building codes Boca, UBC and the National Building Code of Canada. The system is available in a picket (balustered) or glass panel systems. The system components are coated (powder coat) to provide UV and salt spray protection and are available in a wide variety of standard and custom matched colors

**PART 1 GENERAL**

**1.1 WORK INCLUDED:**

Provide engineered aluminum ornamental component railing system of the following type:

*Special Note: Choose applicable system from the following:*

1. Glass Insert Panel System
2. Picket System – Welded Picket & Patented Snap Picket System

**1.2 REFERENCE STANDARDS:**

- A. Uniform Building Code 1997 - Section 509, Table 16-B "Guardrails"
- B. BOCA National Building Code 1993 - Sections 1615.8.2 "Guard Designs and Construction" and 1615.8.2.1 "Infill Areas"
- C. National Building Code of Canada 1995 - Section 4.1.10.1 "Loads on Guards"
- D. Canadian Government Specifications Board (CGSB) CAN2-12.1 M90 - Tempered or Laminated Safety Glass
- E. ANSI Z97.1 - 1984 (R1994) - Glazing Materials Used in Buildings, Safety Performance Specifications and Methods of Test
- F. AAMA 2603.98 Pigmented Organic Coatings on Extruded Aluminum
- G. See Manufacturers Design Manual

**1.3 SUBMITTALS:**

- A. Provide shop drawings and product data as required
- B. Within thirty calendar days after the contractor has received the owner's notice to proceed, submit shop drawings that indicate scope of project, component details, materials, finish, fasteners and anchorage methods, and the relationship to adjoining work
- C. Shop Drawings shall be signed and sealed by the professional engineer responsible for the design

**1.4 QUALITY ASSURANCE:**

Product to be manufactured in compliance with an internationally recognizes Quality Management System such as ISO-9002 , or Q-Base as is Alco Ventures Inc. (certified 1996)

- A. Design criteria: railing assemblies (including top rail, bottom rail, pickets, post, and connections) shall be designed to conform with all applicable building codes and loading requirements.
- B. Galvanic Action: Prevent galvanic action and other forms of corrosion by insulating metals from direct contact with incompatible material.

### **1.5 WARRANTY:**

A. Limited lifetime residential warranty covering powder coating and structural defects (See manufacturer's warranty statement for specific details)

### **1.6 DELIVERY, STORAGE, AND HANDLING:**

A. Deliver materials to the job site in good condition and store in clean, dry location, properly protected against damage to finished surfaces

B. B. Store away from uncured concrete, masonry, or stucco

## **PART 2 PRODUCTS**

### **2.1 MATERIALS:**

A. Extrusion Alloy: 6063-T5 / 6063-T6 / 6061-T6 or 6005A-T61

B. Screws, anchors and inserts: corrosion resistant JS500 Plating System or Stainless Steel

C. Glass panels: tempered or laminated glass:

- Clear
- Tinted as specified
- ¼ inch ANSIZ97.1-1975
- 5mm CAN2-12.1 M90

### **2.2 FINISHES:**

A. TGIC polyester powder coating, electro-statically applied to 2-3 mil thickness. Color to be selected by the architect from manufacturer's standard colors or custom matched.

B. Meeting AAMA 2603.98 Pigmented Organic Coatings on Extruded Aluminum

### **2.3 RAILING COMPONENTS:**

A. Top Rails:

1. Round: size 1 7/8 inches (47.6 mm) high x 2 1/4 inches (57 mm) wide
2. Square: size 1 7/8 inches (47.6 mm) high x 2 1/4 inches (57 mm) wide
3. Colonial: size 1 1/8 inches (28.6 mm) high x 1 5/8 inches (41.3 mm) wide

B. Posts:

1. 1 1/2 inches (38.1 mm) square
2. 2 inches (50.8 mm) square
3. 2 1/2 inches (63.5 mm) square

C. Pickets tubes:

1. 5/8 inches (16 mm)
2. 5/8 inches (16 mm) x 1 1/2 inches (38.1 mm)

D. Bottom Rail:

1. Picket Channel , size 1 1/16 inches (17.5 mm) high x 1 3/8 inches (34.9 mm) wide
2. Glass Channel , size 1 1/8 inches (28.6mm) high x 1 inch (25.4mm) wide

E. Accessories:

1. Fascia brackets
2. Wall mounts
3. Base plates
4. Sleeve connectors

F. Glass inserts: Extruded vinyl, glazing gaskets, color to be Black.

### **2.4 FABRICATION:**

A. Fabricate members and assemblies in accordance to manufacturers supplied shop drawings - grind smooth sharp angles, and corners

B. Assemble items to greatest extent to minimize splicing .

C. Disassemble only as required for shipping. Clearly identify each unit for installation

D. Fasteners and welds to be concealed as much as design will allow

E. Connect non-welded members using manufacturer's standard concealed fasteners and fittings unless noted otherwise

F. Close exposed ends of railing members with manufacturer's standard end fittings

- G. Picket and post spacing to be set in accordance by Vista design manual or by professional engineer.
- H. Provide manufacturer's standard brackets, fittings, flanges, and anchors for connection to other work unless otherwise noted
- I. Provide inserts and anchors for connecting guardrail system to support structure in accordance with all applicable codes
- J. General contractor to verify dimensions on site prior to fabrication

### **PART 3 EXECUTION**

#### **3.1 INSTALLATION:**

- A. Install work in accordance with final shop drawings and manufacturer's instructions
- B. Erect work plumb, parallel to deck surface, free from distortion or defects detrimental to appearance or performance
- C. Anchor posts to substrate with approved corrosion resistant fasteners
- D. Fasten top rail sleeves and top rail to posts
- E. Insert pickets (balusters) or glass panels into bottom and top rail in accordance with the drawings

#### **3.2 CLEANING:**

- A. Wash railing using clean water and soap, rinse with water
- B. Do not use acid solution, steel wool, or other harsh abrasives
- C. Clean glass panels by removing dust and grit with generous application of water, and remove grease and film deposits with mild solution of soap and water; and rinse thoroughly