



STELLAR * CRAFT

Vega Aluminum Picket Guardrail

This robust aluminum picket guardrail is most commonly used on pedestrian bridges and other public and private walkways at universities, parking lots, apartment complexes, commercial properties and amusement parks. Great for high traffic areas!

PART 1 - GENERAL

1.1 SUMMARY:

- A. Prefabricated aluminum railings
- B. Mounting components and accessories
- C. Mechanical fasteners

1.2 ACTION SUBMITTALS:

- A. Material description and installation instructions for manufactured products.
- B. Shop Drawings
- C. Samples for Initial Selection

1.3 QUALITY ASSURANCE:

- A. Comply with Standards and Codes listed in Article 1.02 REFERENCES.
- B. Welding Qualifications: Qualify procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, for steel
 - 2. AWS D1.2/D1.2M, for aluminum

1.4 WARRANTY:

- A. Special Finish Warranty (High-Performance Organic Coatings)

1.5 DELIVERY, STORAGE, AND HANDLING:

- A. Deliver materials to the job site in good condition.

PART 2 –PRODUCTS

2.1 MATERIALS:

- A. Tube: ASTM B221, Alloy 6061-T6, extruded tubing.
- B. Bars, Sheet, and Plate: ASTM B209 or ASTM B211, Alloy 6061-T6.
- C. Type 304 stainless-steel fasteners.

2.2 ALUMINUM FINISHES:

- A. High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605.

2.3 FABRICATION:

- A. Top Rails: Rectangular tube; 3 inches wide by 2 inches high, by 0.1875-inch wall thickness.
- B. Bottom Rails: Rectangular tube; 3 inches wide by 1 inch high, by 0.1875-inch wall

thickness.

C. Pickets: Flat bar; 2 inches wide, by 0.375-inch thick.

D. Posts: Flat bar; 3 inches wide, by 0.50-inch thick joined by horizontal flat bar 2 inches wide, by 0.375-inch thick, welded to verticals.

Part 3 - EXECUTION

3.1. PROJECT CONDITIONS:

A. Field Measurements: Verify handrail and railing dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Established Dimension: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with fabricating handrails and railings without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions.

3.2 INSTALLATION:

A. Install work in accordance with manufacturer's instructions.

STANDARDS AND CODES

- International Building Code, 2012 Edition
- Minnesota State Building Code, 2015 Edition
- The Society for Protective Coatings
- The Aluminum Association, Inc.
- American Architectural Manufacturers Association
- American Society for Testing & Materials
- American Welding Society
- Americans with Disabilities Act Accessibility Guidelines

STRUCTURAL PERFORMANCE

Horizontal concentrated load of 50 lbs. applied to 1 sq. ft. at any point in system, including panels, intermediate rails, balusters, or other elements composing infill area.



StellarCraft™ Vega Aluminum Picket Guardrail is used in all railing applications that must comply with IBC codes for structural strength and dimensions.