



Pulsar Aluminum Picket Fence

The Pulsar is an aluminum picket fence. It is perfect for sidewalks at educational facilities, businesses, sports venues, public swimming pools, and many more. The Pulsar has simple, clean pickets that are durable and maintenance free.

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) 10 year.

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.
- B. Class 1 Clear Anodize

2.3 FABRICATION:

- A. Top Rails: Extruded profile with integrated channel 2x1x1/8
- B. Bottom Rails: Channel 2x1x1/8
- C. Pickets: 1x1 Bar

D. Posts: 2x2x3/16 Tube

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

Handrails and Top of Guards: Uniform load of 50 lbf/ft. applied in any direction. Concentration load of 200 lbf applied in any direction. Uniform and concentration loads need to not be assumed to act concurrently.

Infill of Guards: Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft. Infill load and other loads need not be assumed to act concurrently.



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