

# Product Description



## alumiLAST® Aluminum Picket Railing Information

### PRODUCT DESCRIPTION

A powder coated extruded aluminum picket railing is available in three standard colors and is also available in custom colors.

### PART 1 GENERAL

#### 1.1 WORK INCLUDED:

Provide aluminum railing in lengths per approved engineering drawings.

#### 1.2 SUBMITTALS:

- A. Provide accurate counts of number of pieces and proper lengths required

#### 1.3 QUALITY ASSURANCE:

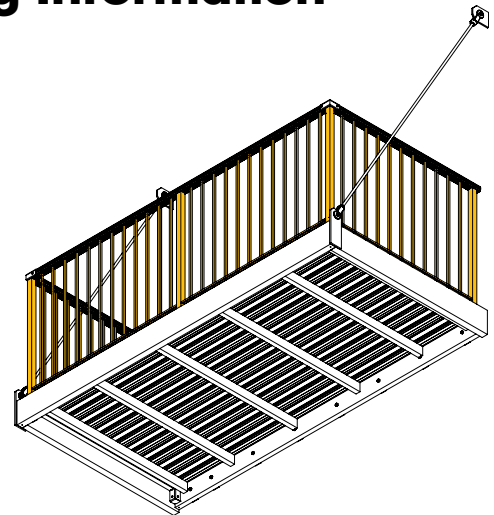
- A. Railings are based upon alumiLAST railing as the standard of quality. No substitutions will be accepted.
- B. Design criteria: railing shall be designed to conform to all applicable building codes and loading requirements.

#### 1.4 DESIGN REQUIREMENTS:

- A. Design, fabricate and install handrail and railing systems in accordance with ASTM E985 for structural performance based on testing performed in accordance with ASTM E 894 and E 935.
- B. Railing assembly and attachments shall be capable of resisting the following loads:

##### 1. Top Rail:

- a. Concentrated load of 200 lbs applied at any point and in any direction.
- b. Uniform load of 50 lbs per linear ft. applied horizontally and concurrently with uniform load of 100 lbs per linear ft. applied vertically downward.



- c. Concentrated load need not be assumed to act concurrently with uniform loads.

##### 2. Handrails not serving as top rails:

- a. Concentrated load of 200 lbs per linear feet applied in any direction.
- b. Uniform load of 50 lbs per linear ft. applied in any direction.
- c. Concentrated and uniform loads need not assumed to act concurrently.

#### 1.5 5 YEAR WARRANTY:

*(See manufacturer's warranty statement for specific details)*

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

- A. Deliver materials to the job site in good condition. Purchaser to store in clean, dry location, properly protected against damage to finished surfaces.
- B. Store away from uncured concrete, masonry, or stucco

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### PART 2 PRODUCTS

#### 2.1 MATERIALS:

Extrusion Alloy: 6005A-T6, 6061-T6, or other 6000 series aluminum alloy.

- A. Screws, bolts, washers, hardware shall be stainless steel or other corrosion resistant material.

#### 2.2 FINISHES:

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

#### 2.3 FRAME COMPONENTS:

- A. Aluminum Welded Picket guardrail system: Components fabricated of extruded aluminum in accordance with ASTM B 221. (ASTM B 221M).

1. Top Rail Style: Alloy 6063-T5.
  - a. Square welded picket top rail.
2. Picket (balustrade) welded top and bottom rail, Alloy 6063-T5. Style:
  - a. Square 5/8 inch.
  - b. Other\_\_\_\_\_.
3. Bottom Rail: Alloy 6063-T5.
  - a. U-channel 0.547 inches high by 1.318 inches wide.
  - b. Other\_\_\_\_\_.
4. Posts: Alloy 6005A-T61:
  - a. 1-11/16 inch plain posts with welded base plates.
  - b. 1-11/16 inch posts with welded bottom rail sleeves.
  - c. 1-11/16 inch posts with shop welded center posts and mechanically fastened 1-11/16 inch end/corner/splice posts with welded bottom sleeves.

5. Mounting System: Anchoring system capable of withstanding structural design load stated.
  - a. Posts surface mounted to substrate with base plates.
  - b. Posts fascia mounted to outer deck surface.
  - c. Posts core mounted to substrate using non-shrink grout.
6. Posts Spans:
  - a. 60 inch maximum post spacing.
7. Guardrail termination at walls and columns:
  - a. Connect to building walls or support columns at top and bottom locations (and application mid rail locations) using wall mount connectors.
  - b. Posts to be used at railing termination points such as building walls or support columns in addition to upper wall mounts connecting to the building and/or columns to reduce guardrail deflection.
8. Anchors and Fasteners:
  - a. Rail frame assembled using color matching stainless steel fasteners.
  - b. Rail frame assembled using stainless steel fasteners.
  - c. Post base plate anchorage to be stainless steel as recommended by the manufacturer.

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### 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.
  - 1. 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

#### 3.3 CLEANING:

- A. Wash decking using clean water and soap, rinse with water
- B. Do not use acid solution, steel wool, or other harsh abrasives