

# Residential Aluminum Fence

## Architectural Reference Specifications

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### Aluminum Fences and Gates

#### Section 32 31 19 – Decorative Metal Fences and Gates

[This specification contains options and notes in square brackets. The various choices relate to the color, style, size, and component dimensions of the fences. Select one of the options and eliminate the brackets in your final specifications.]

#### **PART 1 SCOPE**

This specification covers Residential Strength Aluminum Ornamental Fence as manufactured by Jerith Manufacturing Co., Inc., including sections, posts, gates, and accessories.

#### **PART 2 PRODUCTS**

##### **2.01 Manufacturer**

The fencing system shall be Residential Strength Aluminum Ornamental Fence as manufactured by Jerith Manufacturing Co., Inc., 14400 McNulty Road, Philadelphia, PA 19154. Telephone: 800.344.2242; Fax: 215.676.9756; email: sales@jerith.com. The fence shall be Style # [100, 101, 111, 200, 202, 211, 400, 401, 402, Concord 101, or Concord 111] with a picket length of [36, 48, 54, 57, 60 or 72] inches. The color of the fence system shall be [Black, White, Green or Bronze].

##### **2.02 Materials**

- A. Aluminum Extrusions: All posts and rails used in the fence system shall be extruded from HS-35™ aluminum alloy having a minimum yield strength of 35,000 psi. All pickets shall have a minimum yield strength of 25,000 psi. 6063-T5 Alloy is not acceptable for any components.
- B. Fasteners: All fasteners shall be stainless steel. Hidden spring clips shall be used to connect the pickets to the horizontal rails. Rail to post connections shall be made using self-drilling hex-head screws.
- C. Accessories: Aluminum sand and die castings shall be used for all scrolls, post caps, finials, and miscellaneous hardware. Die castings shall be made from Alloy A360.0 as per ASTM B85 for superior corrosion resistance. Alloy A380.0 is not acceptable.

##### **2.03 Finish**

- A. Pretreatment: A three stage non-chrome pretreatment shall be applied. The first step shall

be a chemical cleaning, followed by a water rinse. The final stage shall be a dry-in-place activator which produces a uniform chemical conversion coating for superior adhesion.

- B. Coating: Fence materials shall be coated with FencCoat™, a Super-Durable TGIC polyester powder-coat finish system applied by Jerith Manufacturing Company. Epoxy powder coatings, baked enamel or acrylic paint finishes are not acceptable. The FencCoat finish shall have a cured film thickness of at least 2.0 mils. In addition, the screw heads shall be painted to match the color of the fence.
- C. Tests: The cured FencCoat finish shall meet AAMA 2604 "Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels," which includes the following requirements:
  - 1. Humidity resistance of 3,000 hours using ASTM D2247.
  - 2. Salt-spray resistance of 3,000 hours using ASTM B117.
  - 3. Outdoor weathering shall show no adhesion loss, checking or crazing, with only slight fade and chalk when exposed for 5 years in Florida facing south at a 45 degree angle.

Finishes which only meet AAMA 2603 (or the previous version - AAMA 603) are not acceptable.

##### **2.04 Construction**

- A. Horizontal rails shall be 1" channels formed in a modified "U" shape. Pickets shall pass through holes punched in the top of the rail. The top wall shall be .055" thick and the side walls .082" thick for superior vertical load strength. There shall be 3 horizontal rails (4 rails for 72" high fence) in each section.
- B. Pickets shall be fastened to the rails using stainless spring clips that are hidden inside the rails. Pickets shall be 5/8" square and have a wall thickness of .050". Welding or screwing the pickets to the rails is not permitted.

- C. Posts shall be 2" square extrusions with pre-punched holes which allow the fence section rails to slide in. Posts shall be spaced 72 1/2" on center and have .060" walls. Gate posts shall be [2" or 4"] square with .125" walls and used on both sides of a gate. Die cast aluminum caps shall be provided with all posts.
- D. Gates shall have welded frames and shall support a 250 lb. vertical load on the latch side of the gate without collapsing. Walk gates shall be self-closing and self-latching.
- E. Assembled sections shall support a 350 lb. vertical load at the midpoint of any horizontal rail.
- F. The Jerith logo shall appear on all post caps, gates, and horizontal rails of the fencing system.

### ***2.05 Warranty***

The entire fence system shall have a written Limited Lifetime Warranty against rust and defects in workmanship and materials. In addition, the FencCoat finish shall be warranted not to crack, chip, peel or blister for the same period.



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