

## **Specrail Styles & Specifications**

### **SPECRAIL**

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## **SECTION 02830 – ORNAMENTAL ALUMINUM FENCES AND GATES**

### **PART 1 - GENERAL**

#### **1.01 Work Included**

The contractor shall provide labor, materials and all necessary accessory items for the installation of the ornamental aluminum fence system specified herein at (specified project location).

#### **1.02 Related Work**

Section 022 – Earthwork  
Section 030 – Concrete

#### **1.03 System Description**

The manufacturer shall apply a total ornamental aluminum fencing system of the style, strength, and color defined herein. The system shall be a total package including all components; pickets, posts, stringers, gates, and hardware as required.

#### **1.04 Quality Assurance**

The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and the materials specified.

#### **1.05 References**

AAMA 603.8 – Performance requirements & testing procedures for pigmented organic coatings.  
ASTM B221 – Specification for aluminum alloy extruded bars, shapes and tubes.

#### **1.06 Submittal**

The manufacturer's literature shall be submitted prior to installation to confirm compliance with all requirements for materials specified in this section.

#### **1.07 Delivery, Storage, and Handling**

- A. Fence panels, gates, posts and accessories shall be delivered to the construction site in packed cartons.
- B. Each package shall be identified and shall bear the name of manufacturer.
- C. Store all materials in a secure and dry area.

### **PART 2 - PRODUCTS**

#### **2.01 Manufacturer**

The aluminum fencing system shall be as manufactured by SPECRAIL, 129 Leeder Hill Drive, Hamden, CT 06517. The fence shall be [specify style, (specify height), and (specify color)].

## 2.02 Materials

**A. Aluminum Extrusions:** All components shall be made of 6063-T5 and 6105-T5 in accordance with ASTM B221.

**B. Fasteners:** All screws shall be 302 stainless self-drilling head. All screws shall be painted to match the finish of fence.

**C. Accessories:** Aluminum castings shall be used for all post caps, wall brackets, scrolls, finials and other miscellaneous hardware. Hinges and latches shall be fabricated from aluminum extrusions with stainless steel springs.

## 2.03 Finish

The fence shall be coated with POLYCOLOR<sup>®</sup>, an environmentally approved, premium high-solids acrylic coating which exceeds AAMA 603.8. Application of POLYCOLOR shall be electrostatic spray. Curing shall be at a temperature of 375°F to 400°F.

## 2.04 Fabrication

**A. Stringers:** (Horizontal rails) shall be punched to allow pickets to pass through the top of the rail. The number of stringers shall vary with the style, height and strength as determined by manufacturer.

**B. Pickets:** shall be fastened to stringers mechanically with stainless steel TEK screws on one side of stringer only.

**C. Posts:** shall be prepunched to allow the stringers to slide in and be attached with stainless steel TEK. Cast aluminum post caps shall be affixed to all posts.

**D. Gates:** shall be fabricated using the same components as for the complete fencing system. Walk gates shall have adjustable self-closing hinges and will be self-latching.

## PART 3 - EXECUTION

### 3.01 Preparation

**Prepare the grade and remove surface irregularities, if any, which may cause interference with the installation of aluminum fence.**

### 3.02 Installation

**A.** Set fence posts at 6'0" on center maximum, set gate posts for gate openings specified in the construction drawings.

**B.** Insert stringers ends into prepunched posts and fasten with TEK screws.

**C.** Center and align posts. Place concrete around posts, and vibrate or tamp for consolidation. Recheck vertical and top alignment of posts and make necessary corrections.

**D.** Install gates plumb, level, and secure for full opening without interference. For double gates, install drop rod. Adjust all hardware for smooth operation.

### 3.03 Cleaning

Contractor shall clean jobsite of excess materials; post hole excavations shall be scattered uniformly away from posts. Clean aluminum fence with mild household detergent and clean water, rinse well. Mortar should be removed from exposed posts using a 10% solution of muriatic acid followed immediately by several rinses with clean water.