

## **CONSTRUCTION SPECIFICATIONS**

Section 02830

### **ORNAMENTAL ALUMINUM GATES AND FENCES**

#### **PART 1 - GENERAL**

##### **1.01 WORK INCLUDED**

The contractor shall provide all labor, materials, and appurtenances necessary for installation of the ornamental aluminum gates and fences system defined herein at (specify project site).

##### **1.02 RELATED WORK**

Section 022 - Earthwork

Section 030 - Concrete

##### **1.03 SYSTEM DESCRIPTION**

The manufacturer shall supply a total ornamental aluminum gates and fences system of the design, style, and height defined herein. The system shall include all components (fence panels, posts, fasteners, and hardware) 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 and techniques specified.

##### **1.05 REFERENCES**

ISO 3522-1984, Al-Si12 (JIS 5202-82, AC3A) Cast Aluminum Alloy and ASTM B86-88, 383.0 (JIS 5301-90, ADC12) Aluminum die casting.

##### **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 ornamental aluminum gates and fences system shall be manufactured by TOEX.

##### **2.02 MATERIALS**

A. Cast Aluminum Alloy: All components shall be made of Al-Si12 in accordance with ISO 3522-1984 and aluminum die cast 383.0 in accordance with ASTM B86-88.

B. Fasteners: All screws shall be stainless steel or steel with zinc plating.

C. Accessories: Aluminum alloy or steel with zinc plating shall be used for all wall brackets, hinges, latches and other miscellaneous hardware.

### **2.03 FINISH**

The ornamental aluminum gates and fences shall be baking finish by acrylic coatings on aluminum and aluminum alloys as TOEX original spec.

### **2.04 FABRICATION**

- A. Fence panels and gate leaves shall be pre-assembled and pre-cut as specified lengths.
- B. Fence panels shall be attached with brackets.
- C. Walk gates shall have adjustable hinges and the latch with a cylinder lock.

### **2.05 LIMITED WARRANTY**

TOEX certifies that its products are free from defects in material and workmanship. Accidental damage, defects resulting from improper installation and damage from vandalism is not included. Consult the installing dealer or manufacturer for details.

## **PART 3 - EXECUTION**

### **3.01 PREPARATION**

Prepare the grade and remove surface irregularities, if any, which may cause interference with the installation of aluminum gates and fences. All new installation shall be laid out by the contractor in accordance with the construction plans.

### **3.02 INSTALLATION**

Fence panel brackets shall be set at specified spacing. Gate posts shall be spaced according to the gate openings specified in the construction plans. The "Earthwork" and "Concrete" sections of this specification shall govern post base placement and material requirements. C-Series™ fence panel shall be attached to posts using panel brackets.

### **3.03 CLEANING**

The contractor shall clean the job site 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.

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