

SECTION 32 31 19
ORNAMENTAL FENCE SYSTEM
(HEAVY INDUSTRIAL ALUMINUM Enclosed Bottom and Hidden Screw)

PART 1 - GENERAL

1.01 WORK INCLUDED

The contractor shall provide all labor, materials and accessories necessary for installation of ornamental aluminum fence system.

1.02 RELATED WORK

- A. Section 32 13 00 - Paving and Surfacing
- B. Section 03 06 30 - Cast-In-Place Concrete
- C. Section 04 20 00 - Unit Masonry

1.03 SYSTEM DESCRIPTION

The manufacturer shall supply a total ornamental aluminum fence system manufactured by Elite Fence Products Inc. (specify EFS-10, EFS-15, EFF-20, EFF-25, EFS-50, EFS-55, EFS-66) design. The system shall include all components (i.e., pickets, rails, posts, gates 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 materials and techniques specified.

1.05 REFERENCES

- A. AAMA 2604- Performance Requirements and Test Procedures for coating on aluminum extrusions.
- B. AAMA 2603- Performance Requirements and Test Procedures for coating on aluminum extrusions.
- C. ASTM B85- Specification for Aluminum Die Castings.

1.06 SPECIAL WARRANTY

- A. Provide manufacturer's standard lifetime limited warranty electro statically applied
SUPER DURABLE polyester powder coated fence for a lifetime from date of purchase.
We guarantee the finish will not crack, chip, or peel. (lose adhesion)

1.07 DELIVERY AND STORAGE

- A. All materials should be checked for any damage that may have occurred during shipping.
- B. Products must be stored in manufacturers packaging.
- C. Materials should be stored in a dry secure area to protect against weather, damage, vandalism or theft.
- D. All materials should be handled with care when transporting before installation.

1.08 SUBMITTAL

Product data: Manufacturer's catalog indicating materials and all conditions of the specifications have been met.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Obtain fencing and gates, including accessories, fittings, and fastenings, from a single source.
- B. Products from other qualified manufacturers having a minimum of 5 years experience manufacturing aluminum ornamental picket fencing will be acceptable by the architect as equal, if approved ten days prior to bidding, and if they meet the following specifications for design, size, gauge of metal parts and fabrication.
- C. The ornamental aluminum fence system shall conform to Elite Fence Products Inc.™
(specify EFS-10, EFS-15, EFF-20, EFF-25, EFS-50, EFS-55, EFS-66) style.
- D. Standard Panel Width- *Center to Center posts spacing*

<i>Industrial Grade</i>	<i>2 1/2" Post</i>	<i>3" Post</i>	<i>4" Post</i>	<i>6" Post</i>
6' 5" long section	6' 5 1/2"	6' 6"	6' 7"	6' 9"
8' long section	8' 1/2"	8' 1"	8' 2"	8' 4"

- E. Approved Supplier:
Elite Fence Products Inc.
Phone: 1-(800) 783-1331 Fax: (586) 468-4884

Specification Department
Phone: 1-(800) 783-1331 Fax: (586) 468-4884
info@elitefence.com

2.02 MATERIAL

- A. Aluminum material for fence framework (i.e., tubular pickets, rails and posts) shall conform to the requirements of ASTM B221. The aluminum extrusions for posts, pickets, and rails Alloy and Temper Designation 35,000-psi strength aluminum alloy 6063-T5 and 6005-T5.
- B. Coating: The fence system shall have an electro statically applied SUPER DURABLE Polyester powder coat finish that exceeds AAMA 2604. Factory applied and baked at a temperature of 400°F to 425°F.

Colors: White, Black, Quaker Bronze, Walnut Brown, Beige, Hartford Green and Sandstone. 2" square .060 wall post not available in **Walnut Brown, Beige, Sandstone or Hartford Green.**

*AAMA 2604 Performance Results vs. Competition available on website
www.elitefence.com, located under Advantages tab.*

- C. PICKETS - 1" square x 0.062" or wall thickness extruded tubing and fastened to rail by 410 stainless steel corrosion resistant screws See available colors.
a. Picket Spacing- 3 ¾" or 1 3/8"
- D. RAIL – Horizontal rail is 1-5/8" x 1 5/8" (.070 top wall and .100 side wall) . Rail is then wrapped over exposed screw to create hidden screw profile with enclosed bottom.
- E. POSTS – Form fitting to rail profile, pre-punched aluminum posts:

2" x 2" NA	2 ½" x 2 ½" x .075 or .100 wall	3" x 3" x .125 wall	4" x 4" x .125 or .250 wall	6" x 6" x .125 or .250 wall
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- F. Aluminum castings shall be used for all rings, post caps, finials, and miscellaneous adornments.
- G. Other Size pickets available: NA

*All material is American Made. Meets and exceeds **BUY AMERICAN ACT**. Reference Section 1605 of the ARRA.*

2.03 FABRICATION

- A. Pickets, rails and posts pre-cut to specified lengths. Rails pre-punched to accept pickets.
- B. Gates: Fabricated with mechanical fastening with 410 stainless steel screws with optional welding available components, 1" pickets x .062", Rails 1 5/8" x 1 5/8" rail, Uprights are 1 1/2" x 1 1/2" square. Walk gates adjustable self-closing hinges and will be self-latching.

Gate Posts:

- 4" sq. for gate leaf sizes 4'-1" (1244 mm) to 8'-0" (2438 mm)
- 6" sq. for gate leaf sizes 8'-1" (2463mm) to 12'-0" (3657mm)

PART 3 - EXECUTION

3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plans.

3.02 INSTALLATION

Fence posts set at O.C. spacing of 77" or 96", depending on the nominal span specified. Gate posts spaced according to the gate openings specified in the construction plans. Elite Fence Products Inc. panels attached to pre-punched posts using mechanically fastened 410 stainless steel corrosion resistant screws supplied by the manufacturer.

3.03 GATE INSTALLATION

- A. Set gate posts plumb and level for gate openings specified in construction drawings.
- B. Install gates to allow full opening without interference after concrete has hardened around gate posts.
Adjust hardware for smooth operation. Install one drop rod for double gates.

3.04 CLEANING

- A. The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.
- B. When cleaning fence system use mild household detergent and clean water. Remove all excess concrete around posts before material hardens.

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