



Ornamental Picket Fence  
Section 32 31 19

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Furnish labor, materials and equipment to include ornamental fencing for the referenced project.

1.02 SUBMITTALS

A. Changes in specification are only upon written approval by customer.

B. Shop Drawings: Shall consist of dimensions, sizes, finishes and post foundations.

C. Product Data: Manufacturer's certification indicating material compliance and installation.

D. Samples: Color selections for polyester powder coated finishes. If requested, samples of fence components delivered to customer.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Iron World, 9390 Davis Ave. Howard County, MD 20743 (phone (301) 776-7448 fax (301)776-7449, web-site [www.IronWorldFencing.com](http://www.IronWorldFencing.com)).

Additional qualified manufacturers having a minimum of 5 years experience manufacturing ornamental picket fencing will be reviewed by the customer to determine conformity to the following specifications for design, size, gauge of metal parts and fabrication.

B. Maverick Industrial Ornamental Picket Fence:

Style: \_\_\_\_\_ Height: \_\_\_\_\_

Select One: Aberdeen - smooth top rail  
Barcelona – pressed point picket  
Canterbury – flat top picket  
Georgetown – finial top picket (spear, ball or fleur de lis)  
Old Town Series  
St. Vincent  
Guardian – arched top (17 degree or candy cane)

C. Approved Manufacturer:

Iron World, Howard County, MD  
Telephone 301-776-7448  
Fax 301-776-7449

## 2.02 ORNAMENTAL PICKET FENCE

A. Pickets: Fabricated of galvanized square steel tubular members per ASTM A787 with a G90 zinc coating 0.90 oz/ft<sup>2</sup> and steel to have 45,000 psi (310 Mpa) yield strength. Picket size shall be 3/4" sq x 16, 18 gauge or 1" sq x 14, 16 or 18 gauge wall thickness, and spaced at 3 15/16" face to face. Pickets shall be attached to rails using 1/4" industrial drive rivets.

B. Rails: Horizontal U" channels shall be 1 1/2" x 1 □" x 1 1/2" 11 gauge wall thickness (.120") and galvanized: G90 zinc coating 0.90 oz/ft<sup>2</sup>, manufactured per ASTM A-653/A-653M with a 50,000 psi (344 MPa) yield strength. Rails shall be mechanically punched to receive pickets and drive rivets. Attach rails to brackets using one-way security fastener.

C. Posts: Fabricated of galvanized square steel tube members per ASTM A787 with a G90 zinc coating, 0.90 oz/ ft<sup>2</sup>. Steel to have 45,000 psi (310 MPa) yield strength. Post are coated with zinc on the inside and outside. Post size options (3" sq x 12 gauge) or (2 1/2" square 14 or 12 gauge) wall thickness.

D. Finish: All posts, caps and fence panels shall be polyester coated individually after fabrication to thoroughly coat all surfaces for additional corrosion protection. All components enter a 5 stage in line cleaning process to prepare the galvanized surfaces for complete adhesion of the finish coat. Components are given a TGIC polyester resin powder coating applied by the electrostatic spray process to 3.0 mil thickness. The finish is baked in an oven for 15 — 20 minutes at a temperature ranging from 400°F. Colors are available in black or white (brown, ensor green, woodland green and specials).

## 2.03 ACCESSORIES

A. Post Caps: Aluminum or formed steel manufactured to form a weather-tight closure. Caps shall be ball type or flat top (choose one) style on each post.

B. Rail/Post Brackets: Standard 1 1/2" x 1 □" x 1 1/2", 11 gauge galvanized steel channels. Cover to be pressed to bracket for permanent installation. Bracket shall be fastened to post with one galvanized hex bolt. Rails shall be attached to bracket with one-way security fastener.

C. Rings: Cast aluminum rings attached to rails by insertion of mounting block into upper rail. Rings attached to rails with standard drive rivet to prevent removal.

D. Pickets shall be secured to rails with 1/4" aluminum industrial drive rivets to prevent movement. Rivets have a shear strength of 1,500# and a holding power of 1,100#.

E. Finial Tops of Pickets: Cast aluminum, attached to pickets by 1/4" rivets. All finials extend 6" above rail.

F. Picket Tops (choose one)

1. Standard press steel-pointed pickets.
2. Flat top pickets with plugs.
3. Style finial top pickets (chosed one: spear, ball or fleur de us).

## 2.04 GATES

Ornamental picket swing gates (see additional specifications).

Ornamental picket cantilever slide gates (see additional specifications).

## 2.05 SETTING MATERIALS

- A. Concrete: Minimum 28 day compressive strength of 2,500 psi.
- B. Plated Post: Provide 3/8" steel base plates with 4 holes for surface mounting where indicated.

## PART 3 EXECUTIONS

### 3.01 EXAMINATION

- A. Fence layout to be surveyed and staked by customer on finish grades.
- B. Property lines and legal boundaries of work to be clearly established by the general contractor or property owner.

### 3.02 FENCE INSTALLATION

- A. Install fence per fence industry standards.
- B. Set post uniformly at 93 1/8" face to face unless otherwise indicated.
- C. Set posts in concrete having a diameter 4 times the diameter of the post, and 6" deeper than the bottom of the post. Forms are not necessary or recommended.
- D. Check each post for vertical and top alignment.
- E. Attach panels to brackets using two 1/4 aluminum air craft rivets.

### 3.03 INSTALL AND SECURE SPECIFIED POST TOPS

### 3.04 CLEANING

- A. Clean up debris and remove from the site.