

ITEM 01607.95 M – ORNAMENTAL STEEL PICKET FENCE

DESCRIPTION

The work shall consist of furnishing and installing ornamental picket fencing, gates and accessories as shown on the Plans, as directed by the Engineer, and as herein specified.

MATERIALS

Quality Assurance

Qualifications: Manufacturers shall have a minimum of five years experience manufacturing ornamental picket fencing.

Ornamental Picket Fence

1. Manufacturer:

Master Halco
Monumental Iron Works Subsidiary
Style N MOD, 1524-mm high
6500 Eastern Ave.
Baltimore, MD 21224
410-633-6500
www.mhfence.com

Boundary Fence & Railing Systems, Inc.
131-02 Jamaica Ave.
Richmond Hill, NY 11418
718-847-3400
www.boundary-fences.com

Ameristar Fence Products
1555 North Mingo Road
Tulsa, OK 74116
918-835-0989 or 1-888-333-3422
ameristarfenceproducts.com

Or equal as approved by the Engineer.

2. Pickets: Galvanized square solid steel members, manufactured per ASTM A-787, having a 310 MPa yield strength and G90 zinc coating. Picket size 19 mm. Space pickets 100-mm maximum face to face. Attach each picket to rail with 6 mm industrial drive rivets, size No. 4; minimum wall thickness 1.19 mm.
3. Rails: 38 mm x 35 mm x 38 mm, 3.05 mm thick galvanized steel “U”-channel per ASTM A-653 or ASTM A-607 having a 344 MPa yield strength and G90 zinc coating. Punch rails to receive pickets and rivets and attach rails to rail brackets with 2 each, 6-mm industrial drive rivets, Size No. 4. Steel for rail produced under ASTM A-653.
4. Posts: Galvanized square tubular members, manufactured per ASTM A-787, having a 310 MPa yield strength, and G90 zinc coating (inside and outside). Minimum post size shall be as detailed on the Plans.
5. Accessories: Assembled panels with ornamental accessories attached using industrial

ITEM 01607.95 M – ORNAMENTAL STEEL PICKET FENCE

drive rivets to prevent removal and vandalism.

6. Finish: All pickets, channels, posts, fittings and accessories shall be polyester coated individually after drilling and layout, to ensure maximum corrosion protection. All components shall be power washed to assure complete adhesion of the finished coat. All metal shall be given a polyester resin based powder coating applied by an electrostatic spray to a thickness of 2.5 mils. Bake finish for 20-minutes at 232 degrees Celsius metal temperature. Color shall be black.

Gates. Fence gates shall be indicated on the plans. Each gate shall be provided with a padlock (American 747 or approved equal). All locks shall have identical keys. The Contractor shall provide the Engineer with six (6) keys.

Accessories

1. Rail Attachment Brackets: Die cast of zinc per ASTM 86-83Z 323521. Ball and socket design shall be capable of 30 degree swivel (up/down-left/right). Bracket shall fully encapsulate rail end for complete security that is aesthetically pleasing.
2. Industrial Drive Rivets: Sufficient length to attach items in a secure non-rattling position. Rivet shall have a minimum of 4894 N holding power and shear strength of 6674 N.
3. Post Caps: Formed steel, cast of malleable iron or aluminum alloy, weather-tight closure cap. Provide standard post cap for each post.
4. Picket Tops: Pressed point.

Setting Material

Flanged Posts: Provide flange type base plates with four holes for surface mounting of posts where indicated.

CONSTRUCTION DETAILS

Submittals

1. In accordance with the Standard Specifications Section 106 – Control of Material. Shop Drawings.
2. Layout of fence with dimension, details, and finishes of components accessories and post foundations.
3. Product Data: Manufacturer's catalog cuts indicating material compliance.
4. Samples: Color selections for polyester finishes. If requested, samples of materials (e.g., finials, caps, and accessories).

ITEM 01607.95 M – ORNAMENTAL STEEL PICKET FENCE

Examination

1. Verify that areas to receive fencing are completed to final grades and elevations.
2. Ensure property lines and legal boundaries of work area clearly established.

Installation

1. Install fence in accordance with manufacturer's instructions.
2. Space posts as shown on plans.
3. Surface mount posts with mounting plates where indicated. Fasten with lag bolts and shields.
4. Check each post for vertical and top alignment and maintain in position during placement and finishing operation.
5. Align fence panels between posts. Firmly attach rail brackets to posts with 6-mm bolt and locknut, ensuring panels and posts remain plumb.

Accessories. Install post caps and other accessories to complete fence.

Cleaning. Clean up debris and unused materials and remove from site.

METHOD OF MEASUREMENT

Ornamental Steel Picket Fence will be measured by the number of meters of steel picket fence measured along the top of the fence from center to center of end posts, including all gates and hardware as indicated on the plans.

BASIS OF PAYMENT

The unit price bid for all the work encompassed by this Section shall include the furnishing of all labor, materials, tools, equipment, and incidentals as necessary to complete the work.