

Section 32 31 29

PostMaster + ® STEEL POST FOR WOOD FENCE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Steel Post for Wood Fence Systems.
- B. Division 01 – General Requirements: Drawings, quality, product and performance requirements, general and supplemental conditions apply as applicable to the project and project documents.

1.02 RELATED SECTIONS

- 01 33 23 Shop drawings, product data
- 01 43 13 Manufacturers qualifications
- 01 43 13 Installer qualifications
- 01 45 00 Quality control
- 01 65 00 Product delivery requirements

1.03

ASTM A90/A90M	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
ASTMA653/A653M-17	Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
ASTM F537-01	Standard Specification for Design, Fabrication, and Installation of Fence Constructed of Wood and Related Materials.
ASTM F1043	Specification for Strength and Protective Coatings on Steel Industrial Framework
ASTM F1667	Specification for Driven Fasteners: Nails, Spikes, and staples

1.04 SUBMITTALS

- A. Changes in specifications may not be made after the bid date.
- B. Shop Drawings: Layout of fence and gates with dimensions, details and finishes of component accessories and post foundations.
- C. Product Data: Manufactures catalog cuts indicating material compliance and specified options.
- D. Samples: Steel Posts, including Line Posts, Corner Posts, and Gate Posts samples supplied upon request.

PART 2 - PRODUCTS

2.01 MANUFACTURE

- A. Master Halco, Inc. 3010 Lyndon B Johnson Freeway Suite 800, Dallas, Texas 75234. Products from other qualified manufacturers having a minimum of 5 years experience manufacturing steel posts will be acceptable by the architect as equal, if approved in writing, ten days prior to bidding, and if they meet the following specifications for design, size, gauge of metal parts, fabrication and warranty.
- B. Steel Post for Wood Fencing
Height: (mm).
Weight: 2.64 lb./ft (3.93 kg/m)
- C. Approved Manufacturer:
Master Halco, Inc.
3010 Lyndon B Johnson Freeway, Suite 800
Dallas, Texas 75234
Phone 1-800-883-8384
Website: www.postmasterfence.com

2.02 STEEL POST

- A. Line Posts: 4-1/2" (114.3mm) x 1-1/2" (38.1mm). [.100" (2.54mm)] thick galvanized steel, roll formed steel shapes complying with ASTM A-653 having a 50,000 psi (344 MPa) yield strength and G90 zinc coating, 0.90 oz/ft² (0.27 kg/M²). Alternating hole pattern [0.50" (12.7mm)] Punch thru holes: 0.20 +/- .010 thru hole typ. 1/4" lag screws or #8/#9 Deck Countersunk Deck Screw(s). Concrete Lock [1" (25.4mm) x 3" (76.2mm)].
- B. Corner Posts: 3" (76.2mm) x 3" (76.2mm). [.12" (3.048mm)] thick galvanized steel, roll formed steel shapes complying with ASTM A-653 having a 50,000 psi (344 MPa) yield strength and G90 zinc coating, 0.90 oz/ft² (0.27 kg/M²). Alternating hole pattern [0.50" (12.7mm)] spacing. Punch thru holes: 0.20 +/- .010 thru hole typ & 0.3125" hole typ. 1/4" lag screws or #8/#9 Deck Countersunk Deck Screw(s). Concrete Lock [1" (25.4mm) x 3" (76.2mm)].
- C. Gate Posts: 4.25" (107.95mm) x 3" (76.2mm) x 1.25" (31.75mm). [.100" (2.54mm)] thick galvanized steel, roll formed steel shapes complying with ASTM A-653 having a 50,000 psi (344 MPa) yield strength and G90 zinc coating, 0.90 oz/ft² (0.27 kg/M²). Alternating hole pattern [0.50" (12.7mm)] Punch thru holes: 0.20 +/- .010 thru hole typ. 1/4" lag screws or #8/#9 Deck Countersunk Deck Screw(s). Concrete Lock [1" (25.4mm) x 3" (76.2mm)].
- D. Finish: Galvanized coating [Line and Corner Posts], Powder Coating [Gate Posts].
- E. Residential Applications:
Provide manufacturer's standard lifetime limited warranty that, in a residential application, its Steel Post product is free from defects in material or workmanship including structural failure. Lifetime is defined for as long as the original purchaser owns the home. "Structural failure" is defined as a permanent bend of more than 5%.
- F. Commercial Applications:
Provide manufacturer's standard limited warranty that, in a commercial application, its Steel Post product is free from defects in material and workmanship, including structural failure for a period of 20 years from the date of original purchase for corporation, partnership, unincorporated association, or a government or public entity, including, but without limitation to, a church or school installation applications. "Structural failure" is defined as a permanent bend of more than 5%.

2.03 SETTING MATERIAL

- A. Concrete: Minimum 28 day compressive strength of 3,000 psi (20 MPa).
- B. Flanged Posts: Provide flange type base plates with 4 holes for surface mounting of posts where indicated.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Verify areas to receive fencing are completed to final grades and elevations.
- B. Ensure property lines and legal boundaries of work are clearly established.

3.02 INSTALLATION

- A. Install fence in accordance with manufacturer's instructions.
- B. Locate property boundary lines, staking locations of each Corner and Gate Posts.
- C. Line Posts spaced length of rail +2" (50.8mm) on center. Exact spacing may be modified depending on fencing rails used, fence heights and ground slope.
- D. Concrete Set Posts: Dig the Corner Post, Gate Post, and Line Post holes 6" (152.4mm) – 10" (254mm) diameter and 30" (762mm) deep. Exact diameter and depth will be determined by local conditions. Set post bottom 30" (762 mm) below surface when in firm, undisturbed soil. Center posts in holes; making sure posts are plumb, square to fence line and set to correct height. Block and support the post to preserve post position. Place concrete around post in a continuous pour, mounding the top to direct water away from posts. When concrete has hardened in Corner Post and Gate Post, stretch string between them to help set Line Post at the correct height.
- E. Surface Mount (wall mount) posts with mounting plates where indicated. Fasten with lag bolts and shields.
- F. Check each posts for vertical and horizontal alignment, and maintain in position during placement and finishing operation.

3.03 Gate Installation

- A. Install gates plumb, level and secure for full opening without interference.
- B. Attach hardware by means which will prevent unauthorized removal and entry.
- C. Adjust hardware for smooth operation

3.04 Cleaning

- A. Clean up debris and unused materials and remove from site