



Quality Products, Exceptional Service,
Outstanding People

3010 Lyndon B. Johnson Freeway
Suite 800
Dallas, TX 75234

Tel: 800-883-8384

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 specification 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: Manufacturer's catalog cuts indicating material compliance and specified options.
- D. Samples: Steel Post samples available on request.

PART 2 PRODUCTS

2.01 MANUFACTURER

- 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)
- A. Approved Manufacturer:
 - Master Halco, Inc.
 - 3010 Lyndon B Johnson Freeway, Suite 800
 - Dallas, Texas
 - Phone 1-800-883-8384
 - Website: www.postmasterfence.com

2.02 STEEL POST

- A. Post: 3-1/2" (89mm) x 1-3/4" (44mm) 11 gauge [0.120" (3.05mm)] 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). Punch thru holes: 13/64" Dia., 1" (25mm) OC at both flanges.
- B. Finish: Galvanized coated
- B. 6' high solid fence: Product will meet minimum 73 MPH (Ultimate) wind load when a 6' High Solid Privacy fence is constructed with Posts set to full fixity every 8' OC. Windload Ref.: 2015 International Building Code for exposure "B".
- C. 8' high solid fence: Product will meet minimum 73 MPH (Ultimate) wind load when an 8' Solid Privacy Fence is constructed with Posts set to full fixity every 4' OC. Windload Ref.: 2015 International Building Code for exposure "B".
- D. 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%.
- E. 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. Space posts uniformly at 8' OC maximum unless otherwise indicated (**due to wind load or fence style requirements**).

B.01 Vertical Style Spacing Chart (Windload requirement)

Vertical Fence Height: 8ft	Max On-Center Post Spacing – 4ft
Vertical Fence Height: 7ft	Max On-Center Post Spacing – 5ft
Vertical Fence Height: 6ft	Max On-Center Post Spacing – 8ft
Vertical Fence Height: 5ft	Max On-Center Post Spacing – 10ft
Vertical Fence Height: 4ft	Max On-Center Post Spacing – 10ft

B.02 Horizontal Style Spacing Chart (Fence Style requirement)

Horizontal Fence All Heights	Max On-Center Post Spacing – 4ft
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- C. Concrete Set Posts: Drill hole in firm, undisturbed or compacted soil. Holes shall have diameter 4 times greater than nominal outside dimension of post, and depths approximately 6" (152 mm) deeper than post bottom. Excavate deeper as required for adequate support in soft and loose soils and for posts with heavy lateral loads. Set post bottom 36" (914 mm) below surface when in firm, undisturbed soil. Place concrete around post in a continuous pour. Trowel finish around posts and slope to direct water away from posts.
 - 1. Gate Posts and Hardware: Set keepers, stops, sleeves and other accessories into concrete.
- D. Surface mount (wall mount) posts with mounting plates where indicated. Fasten with lag bolts and shields.
- E. Check each post for vertical and top 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.
- C. Adjust hardware for smooth operation.

3.04 CLEANING

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