



DESIGNMASTER FENCE FORTE WELDED WIRE FENCES AND GATES

CONSTRUCTION SPECIFICATIONS INSTITUTE MASTERFORMAT SECTION 32 31 XX

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Steel welded wire fences.
2. Steel welded wire gates.
3. Concrete post foundations.

B. Related Sections:

1. Division 01: Administrative, procedural, and temporary work requirements.
2. Section 03 3000 - Cast-In-Place Concrete.
3. Section 31 2300 - Excavation and Fill.

1.2 REFERENCES

A. ASTM International (ASTM):

1. A185/A185M - Standard Specification for Steel Welded Wire Reinforcement, Plain, for Concrete.
2. A641/A641M - Standard Specifications for Zinc-Coated (Galvanized) Carbon Steel Wire.
3. B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
4. C94 - Standard Specification for Ready-Mixed Concrete.
5. D3359 - Standard Practice for Measuring Adhesion by Tape Test.

1.3 SUBMITTALS

A. Submittals for Review:

1. Shop Drawings: Indicate fence locations, post spacing, system components, and accessories.
2. Product Data: Manufacturer's descriptive data.
3. Samples:
 - a. [12 x 12] [_x_] inch fence panel samples.
 - b. [12] [_] inch long post samples.
 - c. Cap and bracket samples.

B. Sustainable Design Submittals:

1. Recycled Content: Certify recycled content of steel; indicate recycled content percent and whether pre-consumer or post-consumer [LEED MR Credit 4.1/4.2].
2. Regional Materials: Certify materials extracted, processed, and manufactured within 500 mile radius of Project site [LEED MR Credit 5].

1.4 QUALITY ASSURANCE

- ###### A. Installer Qualifications:
- Minimum [2] [_] years [documented] experience in work of this Section.

B. Mockup:

1. Size: Minimum [16] [] feet long x full height.
2. Show: Fence posts, panels, and accessories.
3. Locate [where directed.] []
4. Approved mockup may [not] remain as part of the Work.

1.5 WARRANTIES

A. Furnish manufacturer's warranty providing coverage against corrosion of galvanized steel coatings and blistering or loosening of powder coatings.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Contract Documents are based on products by Deacero S.A. DE C.V.
B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 COMPONENTS

A. Fence Panels:

1. Resistance welded steel wire mesh, ASTM A185/A185M, 9 gauge Class 1 galvanized steel wire per ASTM A641/A641M, 1/2 x 3 inch mesh.
2. Height: Flat Panels [79] [99] [118] [142] inches, V Brace Panels [76] [96] inches.
3. Wire breaking load: Minimum 70,000 to 90,000 PSI.
4. Weld shear strength: Minimum 1,050 pounds.

B. Posts:

1. Galvanized steel tube, ASTM A513/A787, G60 coating class, 3 x 3 inches, 11 gauge.
2. Length: To suit panel height and post mounting method.
3. Post caps: Ultraviolet-protected plastic, sized to post dimensions, friction fit.
4. Post bases: Not applicable.
5. Extension arms: Same material and size as posts, welded to post tops at 45 degree angle, for attachment of [barbed wire using clips and machine bolts.] [Fence panels using post brackets.]

C. Post Brackets:

1. Galvanized steel and powder coated, with self-tapping stainless steel screw or other appropriate self-tapping screw as required.

D. Gates:

1. Custom built by design. Includes any specified hardware.

2.3 ACCESSORIES

A. Concrete: As required by local building codes.

2.4 FINISHES

A. Fence Panels and Posts:

1. Polyester powder coated to approximately 4 mils thickness, free of both Triglycidyl Isocyanurate (TGIC) and Volatile Organic Compounds, [Black] [White] [Green] [Brown] [Gray] [Blue] [Red] [Yellow] color.
2. Salt spray resistance: No rusting or blistering tested to ASTM B117 for 1000 hours.
3. Adhesion: Tested to ASTM D3359, Method B.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install fencing in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Drill post holes into undisturbed or compacted soil in accordance with local building codes.
- C. Set posts with bottom hole in accordance with local building codes.
- D. Place concrete around posts in accordance with local building codes.
- E. Pour top of footings in accordance with local building codes.

**** OR ****

3.2 INSTALLATION

- A. Install fencing in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Locate and drill holes for post bases.
- C. Secure each post with four anchor bolts.

3.3 INSTALLATION TOLERANCES

- A. Maximum Variation from Plumb: [1/4] [] inch in 10 feet.
- B. Maximum Offset from True Position: [1] [] inch.