



## DESIGNMASTER FENCE CLASSIC 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.

###### B. Miami-Dade County

1. High Velocity Hurricane Zone Certification.

##### 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, 6 gauge Class 1 galvanized steel wire per ASTM A641/A641M, 2 x 6 inch mesh, stiffened with horizontal V-shaped braces.
2. Height: [2] [4] [5] [6] [8] feet.
3. Wire breaking load: Minimum 80,000 PSI.
4. Weld shear strength: Minimum 1,050 pounds.

**B. Posts:**

1. Galvanized steel tube, ASTM A513/A787, G60 coating class, 2¼ x 2¼ inches, 16 gauge [except 12 gauge for posts supporting extension arms] or 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: Steel plate bolted to bottom of posts, with four plated steel anchor bolts per base.
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, sized to post dimensions, with a 1¼" galvanized nut and bolt.

**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: [ $\frac{1}{4}$ ] [ ] inch in 10 feet.
- B. Maximum Offset from True Position: [1] [ ] inch.