

Construction Specification
Section 02825 –Architectural Metal Fenceworks Inc.
Palisade High Security Steel Perimeter Fence System

I. General

Included Work:

These specifications include Palisade security fence, gates, posts and hardware. Contractor is to provide labor and concrete.

Related Work:

Section _____ Earthwork

Section _____ Concrete

Section _____ Painting

System Description:

Manufacturer shall supply a complete fencing system including posts, rails, pickets, fish plates, mid bay supports, gates and hardware.

Quality Assurance:

Contractor shall supply laborers and supervisors who are familiar with Palisade security fence installation and construction.

References:

ASTM A036	Structural Steel
ASTM A500	Cold Formed Steel
ASTM A513	Low Carbon Steel
ASTM B117-90	Salt Spray Resistance
ASTM D3363	Gouge Pencil Hardness
ASTM D4752	MEK Test – 50 Double Rubs
ASTM D3359	Adhesion
ASTM D522-93A	Elongation
ASTM D2794	Impact Resistance Min. 140 inch lbs
ASTMG007	South Florida Exposure

Submittal:

Manufacturers shop drawings, literature and installation procedures shall be submitted to insure compliance with requirements for materials specified.

Product:

Delivery, handling and storage all materials shall be inspected to ensure that no damages were incurred during shipping. Materials are to be stored in a clean, dry, dust and chemical free environment and in an area where materials will be secure from vandalism and theft.

II. Products

Manufacturer:

The PalisadeFence™ steel fence system shall be manufactured by:
Ironworks Mfg. & Supply Co.
300 W. South Street
Jackson MS 39203
877-379-8305 or 601-352-3722

Materials:

- (a) All solids, pales, posts, angles, channels, and I-beams will be made from steel with requirements of ASTM A36.
- (b) Pales on gates shall be the same size and specifications as fence. Gate frames will meet requirements of ASTM A500 grade B or ASTM 513.
- (c) All steel components shall be hot dip galvanized to ASTM 123 and will be a minimum of 3.5mils thick inside and outside of all steel components.
- (d) All steel components shall be coated with a minimum of 2.5 mils of TGIC polyester powder coat.

Fabrication:

- (a) All steel used in manufacturing of fencing will be of new clean steel conforming to ASTM requirements.
- (b) Pales are fastened to the rails with security fastenings to form the panel. The fence panels are fastened to other fence panels through the posts using fish clips with security fasteners.
- (c) Swing gates shall be using pales used in fence. All connections and intersections shall be welded prior to hot dip galvanize and powder coating.
- (d) Completed fence panels shall be able to support 500 lb. load applied at center of fence panel without permanent damage.
- (e) Panels shall have an adjustable pitch of 0° to 15°.

III. Execution

Preparation:

- (a) Contractor shall layout new fence according to fence construction plans, shop drawings and codes or applicable requirements.
- (b) Contractor shall check for grade changes.
- (c) All discrepancies between plans, shop drawings and site conditions must be approved by architect or engineer before proceeding further.

(Continued on page 2)

Construction Specification
Section 02825 –Architectural Metal Fenceworks Inc.
Palisade High Security Steel Perimeter Fence System

Page 2

Installation:

- (a) Posts will be set at a maximum of 9'-0" on center having footings of 12" in diameter and 3'-0" deep below finish grade (this depends on height of fence & soil conditions).
- (b) Insert appropriate fish plates into the slots in the posts.
- (c) Attach rails to the fish plates using appropriate bolts & security nuts.
- (d) Install mid bay support to bottom rail.
- (e) Attach pickets to the rails with appropriate bolts & security nuts.
- (f) Adjust mid bay support when concrete is set.
- (g) All abrasions to factory coatings shall be free of oil, dirt rust and wax and shall be primed with cold galvanize spray and touched up with paint that matches quality, color and sheen of gloss as that of manufacturers paint.

Cleaning:

Contractor shall remove debris caused by excavation of post footings. Excess mortar concrete, strings, stakes etc. All posts shall have concrete splatter removed.