

**GIBRALTAR**  
**Integrid™ Fence System**  
**Security Fence – Section 32**

**PART 1 - GENERAL**

**1.01 WORK INCLUDED**

The contractor shall provide all labor, materials and appurtenances necessary for installation of the Integrid™ Fence System defined herein at *(Insert Site Location Here)*.

**1.02 SYSTEM DESCRIPTION**

The manufacturer shall supply a complete welded wire mesh fence system of the Integrid™ Fence System design. The system shall include all components (i.e., mesh panels, rails, posts, and hardware) required.

**1.03 QUALITY ASSURANCE**

Gibraltar products are fabricated at our AISC Certified facility through our AISC quality management system.

The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and materials and techniques specified.

**1.04 REFERENCES**

- ASTM A36 - Standard Specification for Carbon Structural Steel
- ASTM A500 – Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
- ASTM A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
- ASTM D7803- Standard Practice for Preparation of Zinc (Hot-Dip Galvanized) Coated Iron and Steel Product and Hardware Surfaces for Powder Coating.

**1.05 SUBMITTAL**

The manufacturer's submittal package shall be provided prior to installation.

**1.06 PRODUCT HANDLING AND STORAGE**

- A. All Gibraltar products shall be packaged to protect the materials from damage during shipment.
- B. Upon receipt at the job site, all materials shall be checked to ensure that no damage occurs during shipping or handling. If damage occurred, it must be reported within 5 days of receiving material with photographic evidence on the original delivery vehicle.
- C. For material handling, Gibraltar recommends the following:
- (1) For palletized materials, a 5,000lb (2,250 kg) capacity forklift shall be used. No palletized product shall exceed 3,500lb (1,600 kg).
  - (2) For non-palletized materials, a 10,000lb (4,500 Kg) minimum load capacity telehandler with proper rated rigging shall be used to ensure proper handling of products during storage or installation. Ignoring these recommendations may cause damage to material coatings or compromise the structural integrity of the product.
- D. All Gibraltar barrier products are coated to protect materials from the effects of exposure to all outdoor elements; however, when site storage is required Gibraltar recommends the following guidelines:
- (1) Short term storage (0-12 months): Store in such a manner to ensure proper ventilation and drainage. The storage location shall protect against damage, vandalism and theft.
  - (2) Long term storage (more than 12 months): In addition to the recommendations for short term storage, Gibraltar products shall also be covered to prevent exposure to the elements prior to installation. The purpose of this recommendation is to preserve the aesthetic appearance of the coating finish. Long term exposure to the elements naturally degrade coating appearances; therefore, proper storage is essential for ensuring preservation of the material.

**1.07 PRODUCT WARRANTY**

All structural fence components shall be warranted by the manufacturer for a period of one (1) year from the ship date from Gibraltar’s facility. Custom and extended warranties are available, contact Gibraltar for more details.

**PART 2 - MATERIALS**

**2.01 MANUFACTURER**

A. The security fence system shall comply to the Integrid™ Fence System manufactured by Gibraltar Perimeter Security, LP in Burnet, TX.

B. Gibraltar shall supply these configurations as standard options:  
i. 4’-0” to 16’-0” Finish Height

**2.02 MATERIAL**

A. Steel material for fence framework shall conform to the ASTM requirements shown in Table 1.

B. Gibraltar will provide material certifications with each order upon request.

<b>Table 1 – Steel Material Requirements</b>	
<u>Material</u>	<u>Specification</u>
Rails	ASTM A36
Posts	ASTM A500

C. The fence system shall have no exposed fasteners on the rails on either side. All connections shall be located inside the fence post out of view and reach, eliminating all person(s) from tampering from the outside of the post.

D. No drilling or tapping of screws shall be required to mount welded wire mesh to rails or mounting the rails to posts. The rails and posts shall require no fasteners to mount.

E. Posts shall conform to manufacturer’s specific design.

F. Standard fence post spacing shall be 10’-5” O.C. In areas where 10’-5” is too wide or at end of runs the contractor shall cut down panels in the field to fit specific areas. POST SPACING SHALL NOT EXCEED 10’-7” POST SPACING O.C.

**2.03 FABRICATION**

A. Posts shall be pre-cut to specified lengths.

B. Fabrication of the members shall be in accordance to manufacturer’s instructions, the plan details, and this specification.

C. Shop drawings will be provided for site specific locations of each fence system.

D. The Integrid™ Fence System coating system shall protect against the long-term effects of corrosion. The system shall be [HOT-DIP GALVANIZED TO ASTM A123] or [ZINC RICH BASE COAT AND POWDER COAT FINISH].

**PART 3 - EXECUTION**

**3.01 PREPARATION**

A. The purchaser shall indicate the location of the fence line with suitable stakes.

B. The purchaser shall indicate all underground utility locations that interfere with installation, USC&G benchmarks, property monuments, and other underground structures.

C. Before installing the Integrid™ Fence System, all necessary site clearing and grading shall be performed by the purchaser.

### **3.02 FENCE INSTALLATION**

A. Fence posts shall be spaced according to plans. Posts shall be set in 12” diameter concrete footers having a minimum depth of 48” (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). Follow manufacturer’s plans for further dimensional and installation details.

B. The fence shall be installed per Gibraltar’s System Drawing Number *IFS-SL01*. Construct concrete foundations to the dimensions specified by the plans. Excavate a properly sized area for post foundations in accordance with the plans. Place the concrete, install the posts, and plumb. Refer to the installation manual for more details on the system installation.

C. Gibraltar offers factory training courses for installers of our products.

### **3.03 MAINTENANCE**

General maintenance shall consist of typical fence maintenance per the project specific facility’s normal standards. This may consist of removal of vegetation, and visual inspection for evidence of tampering. If major damage occurs to the system, it is recommended that the owner and/or maintainer of the facility contact Gibraltar to purchase replacement parts for the repairs needed.

### **3.04 CLEANING**

The contractor shall clean the jobsite of excess materials.