

**Aegis II™ - Genesis 2-Rail or 3-Rail Style**  
**Construction Specifications**  
Section 02830

**AMERISTAR**

02830/AMI  
P.O. Box 581000  
Tulsa, Oklahoma 74158-1000  
Tel: (800) 321-8724  
Fax: (918) 835-0899  
E-mail: [vcx.ameristar.com@worldnet.att.net](mailto:vcx.ameristar.com@worldnet.att.net)  
[Http://www.fenceusa.com/ameristar/](http://www.fenceusa.com/ameristar/)

**ORNAMENTAL METAL FENCING SYSTEM**

**AEGIS II - GENESIS 2-RAIL OR 3-RAIL STYLE**

**PART 1 - GENERAL**

**1.01 WORK INCLUDED**

The contractor shall provide all labor, materials, and appurtenances necessary for installation of the ornamental metal fencing system defined herein at (specify project site).

**1.02 RELATED WORK**

Section \_\_\_\_\_ - Earthwork  
Section \_\_\_\_\_ - Concrete

**1.03 SYSTEM DESCRIPTION**

The manufacturer shall supply a total ornamental metal fencing system of the Genesis design. The system shall include all components (i.e., pickets, rails, posts, gates and hardware) required.

**1.04 QUALITY ASSURANCE**

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

**1.05 REFERENCES**

ASTM A526-Steel Sheet Zinc-Coated (Galvanized by the Hot Dip Process)  
ASTM B117-Salt Spray Testing

**1.06 SUBMITTAL**

The manufacturer's literature shall be submitted prior to installation.

**1.07 PRODUCT HANDLING AND STORAGE**

Upon receipt at the job site, all materials shall be checked to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage, and to protect against damage, weather, vandalism, and theft.

**PART 2 - MATERIALS**

**2.01 MANUFACTURER**

The ornamental metal fencing system shall conform to AEGIS II, Genesis 2-Rail or 3-Rail style manufactured by Ameristar Fence Products, Inc., in Tulsa, Oklahoma.

## 2.02 MATERIAL

- A. The materials for fence framework (i.e., pickets, rails, and posts) shall be manufactured from coil steel having a minimum yield strength of 50,000 psi. The steel shall be galvanized to meet the requirements of ASTM A526 with a minimum zinc coating weight of .90 ounces per square foot (coating Designation G-90), hot-dip process. Galvanized framework shall be subject to a six stage pretreatment/wash (with zinc phosphate) followed by "PERMACOAT™", an electrostatic spray application of a two coat powder system. The base coat is a thermosetting epoxy powder coating (gray in color) with a minimum thickness of 2-4 mils. The top coat is a "no-mar" TGIC polyester powder coat finish with a minimum thickness of 2-4 mils. The color shall be (specify black, brown, white, or desert sand). Coated galvanized framework shall have a salt spray resistance of 2,000 hours using ASTM B117 without loss of adhesion.
- B. Material for fence pickets shall be 1" square x 16ga. tubing. The cross-sectional shape of the rails shall conform to the manufacturer's **Forerunner™** design with outside cross-section dimensions of 1.75" square and a minimum thickness of 14ga. Post spacing shall be (specify 71-1/4" for 6' o.c. nominal or 96" for 8' o.c. nominal with 2-1/2" square posts). Picket holes in the **Forerunner** rail shall be spaced 4.98" o.c. Picket retaining rods shall be 0.125" dia. galvanized steel. Posts shall be a minimum of 2-1/2" square x 12ga. Rubber grommets shall be supplied to seal all picket-to-rail intersections.

## 2.03 FABRICATION

- A. Pickets, rails, and posts shall be pre-cut to specified lengths. **Forerunner** rails shall be pre-punched to accept pickets.
- B. Grommets shall be inserted into the pre-punched holes in the rails and pickets shall be inserted through the grommets so that pre-drilled picket holes align with the internal upper raceway of the **Forerunner** rails (Note: This can best be accomplished by making an alignment jig). Retaining rods shall be inserted into each **Forerunner** rail so that they pass through the predrilled holes in each picket.
- C. Completed sections (i.e., panels) shall be capable of supporting a 600 lb. load applied at midspan without permanent deformation. Panels shall be biasable to a 25% change in grade.
- D. Gates shall be fabricated using **AEGIS** panel material and gate ends having the same outside cross-section dimensions as the **Forerunner** rail. Each upright and rail intersection shall be joined by welding. Each picket and rail intersection shall also be joined by welding.

## PART 3 - EXECUTION

### 3.01 PREPARATION

All new installation shall be laid out by the contractor in accordance with the construction plans.

### 3.02 INSTALLATION

Fence posts shall be set at spacings of either 71-1/4" or 8' o.c. plus or minus 1/2", depending on the span specified. Gate posts shall be spaced according to the gate openings specified in the construction plans. The "Earthwork" and "Concrete" sections of this specification shall govern post base placement and material requirements. **AEGIS II** panels shall be attached to posts using

panel brackets supplied by the bolt-on hardware supplied by manufacturer.

### **3.03 CLEANING**

The contractor shall clean the jobsite of excess materials; post hole excavations shall be scattered uniformly away from posts.