

## Fence Fittings

### ASTM F 626, Federal specification RR-F-191, AASHTO M-181

#### 1. PRODUCT NAME

Fence Fittings, Chain Link

#### 2. Distributor

**Stephens Pipe and Steel,**  
Corporate Headquarters:

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Stephens Pipe branches are located throughout the United States.

#### 0. PRODUCT DESCRIPTION

##### **Basic Use:**

Fence fittings include those items that are routinely used in conjunction with metallic coated chain link fabric and framework to complete a chain link fence installation.

##### **Composition and Materials:**

Fence fittings for chain link fence may be manufactured from steel or aluminum alloy. Steel items are galvanized after fabrication.

##### **Standards:**

ASTM F626 *Fence Fittings*  
ASTM F934 *Standard Colors for Polymer Coated Chain Link Fence Materials*  
ASTM A 641 *Zinc-Coated (Galvanized) Carbon Steel Wire*  
ASTM A 809 *Aluminum-Coated (Aluminized) Carbon Steel Wire*  
ASTM A824 *Metallic Coated Steel Marcellled Tension Wire for Use with Chain Link Fence*  
ASTM B6 *Zinc (Slab Zinc)*  
ASTM B26 *Aluminum-Alloy Sand Castings*  
ASTM 685 *Aluminum -Alloy Die Castings*  
ASTM B209 *Aluminum and Aluminum Alloy Sheet and Plate*  
ASTM B211 *Aluminum and Aluminum-Alloy*  
ASTM 8221 *Aluminum -Alloy Extruded Bars, Rods, Wire, Shapes and Tubes*  
ASTM B429 *Aluminum -Alloy Extruded Structural Steel and Pipe*  
Federal specification RR-F-191  
KAD Type I, *Fencing, Wire and Post Metal (Fittings)*  
American Association of State Highway Transportation Officials  
W181 *Chain Link Fence*

#### 4. TECHNICAL DATA

##### **General:**

The manufacturer, if requested, will supply samples and certification all materials furnished fully comply with the appropriate specifications. All steel materials are galvanized using zinc metal conforming to ASTM B6.

##### **Post and Line Caps**

Post caps are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc, or from aluminum alloy 360.0 conforming to ASTM B85. Post and line caps are to fit snugly over posts and exclude moisture from inside tubular posts .

##### **Rail and Brace Ends**

Rail and brace ends are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc, or aluminum alloy 360.0 (ASTM B85), 356.0 or 713.0 (ASTM B26).

##### **Top Rail Sleeves**

Top rail sleeves are fabricated to prevent movement along the rail and are made from pressed steel or cast iron galvanized with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc, or aluminum alloy 6063-T6 (ASTM B221 or B429). The thickness is 0.051 in. (1.8 mm) of steel or 0.062 in. (1.8 mm), of aluminum alloy, min. Minimum length is 6 in. (152 mm).

##### **Tension and Brace Bands**

Tension and brace bands are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc, or aluminum alloy 6063-T5, 6063-T6, or 8176-H19 (ASTM B211 or B221).

Tension bands have a minimum material thickness of 14 ga ((0.074 in. (1.88 mm)) and a minimum width of 1/4 in. (19 mm).

Brace bands have a minimum material thickness of 12 ga ((0.105 in. 2.66 mm)) and a minimum width of 3/8 in. (19 mm).

##### **Tension bars**

Steel tension bars are fabricated from merchant quality steel and galvanized, minimum zinc coating weight 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>).

Steel tension bars used to connect 1-3/4 in. (44 mm) and 2 in. (50 mm) mesh fabric to end, gate and corner posts are a minimum

3/16 in. (4.8 mm) by 5/8 in. (16 mm) for fabric heights to 5 ft. (1,520 mm) and 3/16 in. (16 mm) by 1/4 in. (19 mm) for fabric heights over 5 ft (1,520 mm).

Tension bars used to connect 1 in. mesh fabric to end, gate and corner posts are a minimum 3/8 in. (6 mm) by 3/8 in. (10 mm).

The minimum length of a tension bar is 2 in. (50 mm) less than the full height of the chain link fabric.

##### **Tension Wire**

Galvanized steel wire 7 GA. having a tensile strength of 80,000 psi (551 MPa)

##### **Truss Rod and Tightener**

Steel truss rods are fabricated from 5/16 in. (8 mm) merchant quality rod. Truss rods and tighteners are galvanized after threading with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc and shall withstand 2000 lb (900 kg) of tension.

##### **Barbed Wire Arms**

Barbed wire arms are fabricated from pressed steel or cast iron and galvanized with a minimum of 1.2 oz/ft<sup>2</sup> (366 g/m<sup>2</sup>) of zinc.

Barbed wire arms are available as various types (see drawing).

#### 5. AVAILABILITY AND COST

##### **Availability:**

Chain link fittings are available for shipment throughout the United States and worldwide.

##### **Cost:**

Cost may vary depending on specific requirements. Costs may be obtained through all Stephens Pipe branch locations

##### **MAINTENANCE**

Periodic inspection is recommended but no routine maintenance is required.

#### 6. TECHNICAL SERVICES

Specifications, drawings and other technical services are available through your SPS sales