

## SECTION 1016—PROTECTIVE FENCE

**1016.1 DESCRIPTION**—This work is the construction of barrier protective fences and sidewalk protective fences.

**1016.2 MATERIAL**—Before fabrication, submit shop drawings for review and acceptance.

**(a) Protective Fence (Steel).**

**1. Fabric.** [Section 1110.01\(a\)](#), size of mesh, 25 mm (1 inch).

**2. Fabric Tie Wire.** 3.76 mm (No. 9 gage) aluminum wire; or 3.76 mm (No. 9 gage) steel wire, galvanized, conforming to [ASTM F 626](#), or aluminized, conforming to [ASTM A 491](#).  
Certify as specified in [Section 106.03\(b\)3](#).

**3. Posts, Rails, and Fittings.** End, corner, and line posts; top and bottom rails; brace rails; fittings; and hardware, as specified in [Section 1110.02\(a\)](#), ANSI Schedule 40 pipe, with plain ends.  
Certify as specified in [Section 106.03\(b\)3](#).

**(b) Anchor Bolts, Nuts, and Washers.** [Section 1105.02\(c\)2](#), galvanized as specified in [Section 1105.02\(s\)](#).

**(c) Caulking Compound.** [Section 705.8](#)

**1016.3 CONSTRUCTION**—As shown on the [Standard Drawings](#) and as follows:

**(a) General.** Fasten fabric to the line posts, top and bottom rails, and brace rails, using tie wires spaced not more than 600 mm (24 inches) apart; fasten to end and corner posts using 5 mm x 10 mm (3/16-inch by 3/8-inch) stretcher bar bands. Use stretcher bars with square edges attached by threading through the fabric, attached with clamps, or attached by other positive mechanical means.

Use brace bands and stretcher bar bands 3 mm x 25 mm (1/8 inch by 1 inch), with 10 mm (3/8-inch) diameter by 40 mm (1 1/2 inches) long, non-removable bolts.

Do not use bent or damaged posts or rails. Place moisture-proof post tops. Position line-post tops to pass the top rail through the post tops.

Place top rails in 6 m (20-foot) lengths, with couplings or expansion devices joining the lengths to form a continuous brace for each stretch of fence. Fasten top rails to end and corner posts by means of rail ends and brace bands.

Use brace rails at end and corner posts, midway between the top and bottom rail, extending from the end or corner post to the adjacent line posts.

Fasten bottom rails and brace rails to end, to corner, and to line posts, using rail ends, brace ends, and brace bands.

Place truss rods, 10 mm (3/8 inch) in diameter, with turnbuckles, between the brace ends of the brace rail and the bottom rail.

**(b) Steel Welding.** According to AWS.

**1016.4 MEASUREMENT AND PAYMENT**—Meter (Linear Foot)

Measured from center-to-center of end posts. The Department will not deduct gaps at lighting pole foundations.