

## SECTION 1012—PEDESTRIAN RAILING

**1012.1 DESCRIPTION**—This work is the construction of a pedestrian railing.

**1012.2 MATERIAL**—Before fabrication, submit shop drawings of the railing for review and acceptance.

**(a) Railing.**

- Aluminum-Alloy Casting—[ASTM B 26/B 26M](#), Alloy SG70A-T6 or [ASTM B 108](#), Alloy SG70A-T6.
- Aluminum-Alloy Bolts—[ASTM B 211/B 211M](#), Alloy 2024-T4.
- Aluminum-Alloy Nuts—[ASTM B 211/B 211M](#), Alloy 6061-T6.
- Aluminum or Nylon Washers—[Section 1103.11\(b\)](#)
- Bolt Heads—Regular hexagon, ANSI B18.2.3.5M (ANSI B18.2).
- Nuts. Finished hexagon, ANSI B18.2.4.6M (ANSI B18.2)—Threads, Class 6, 6g, or 6H (Threads, Class 2, 2A, or 2B).
- Other Aluminum Alloys—[Section 1013.2\(a\)](#)

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](#)

**1012.3 CONSTRUCTION**—As shown on the [Standard Drawings](#) and as follows:

**(a) General.** Before erection, thoroughly coat the surface of aluminum alloys in contact with other metals, stone masonry, or concrete with caulking compound. After erection and alignment, seal openings between metal surfaces and concrete with caulking compound.

After the concreting and other operations have been completed, thoroughly clean the railing. Remove accumulations of oil, grease, dirt, or foreign materials, using a solvent cleaner.

**(b) Assembly.** Assemble, as shown on the accepted shop drawings and the [Standard Drawings](#).

Make cuts true, smooth, and free from burrs or ragged edges. Fillet-drill all re-entrant cuts, before cutting. Do not flame cut.

To facilitate bending, the Contractor may heat material to a temperature of 205 °C (400F) for a period not exceeding 15 minutes.

Drill rivet and bolt holes, or subpunch 5 mm (3/16 inch) smaller than the nominal diameter of the fastener; then ream to size.

**1012.4 MEASUREMENT AND PAYMENT**—Meter (Linear Foot)

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