

**SECTION 07720**  
**SafetyRail 2000™ Guardrail**  
**System, OSHA COMPLIANT**  
**(Last revised 9/1/02)**

**PART 1 -**  
**GENERAL**

- 1.01           SUMMARY
- Provide and install Non-Penetrating Railing System(s) for safe egress and ingress through roof type access hatches and for protection of roof opening(s) while roof hatch is in use. The SafetyRail 2000™ Railing System meets OSHA Standards 1910.23 and 1910.27 including 1910.23 (a)(3)(i) which stipulates that all exposed sides shall have a top and mid rail for protection.
- 1.02           WORK INCLUDED
- Include all labor, materials, equipment, transportation and services required to complete the installation of the roof accessories as shown on the drawings and/or herein specified.
- 1.03           SUBMITTALS
- Submit manufacturer's catalog cuts for approval prior to order.
- 1.04           WARRANTY
- Provide the General Contractor with a two (2) year manufacturer's warranty.

**PART 2 -**  
**MATERIALS**

- 2.01           MANUFACTURER
- SafetyRail 2000 Guardrail System  
BlueWater Mfg., Inc.  
Phone: (866) 898-5237, fax: (952) 926-0515  
Email: info@bluewater-mfg.com
- 2.02           SafetyRail 2000™ Guardrail System
- A. Furnish and install SafetyRail 2000™ Guardrail System on all roof hatches, matching proper model with specified roof hatch. Contact distributor for proper model selection, if necessary.

B. Performance Characteristics:

1. Railing System shall be designed to withstand a minimum 200 pounds test load. Refer to OSHA (Standards - 29 CFR) 1910.23 (e) (3) (iv).
2. Railing System shall consist of a top rail, mid rail, and swinging gate, with the hatch curb acting as the toe plate.
3. Railing system shall extend to a height of at least 42" from the finished roof deck.
4. Railing system shall be free of sharp edges and snag points.
5. Product label shall include easy reading Logo decal along with a warning label informing the installers to read the enclosed instructions located in the instruction tube.

C. Railing and Base:

1. Rail shall be 1 5/8" O.D. Hot Rolled Pickled Electric Weld Tubing
  - 2a. The free standing base shall be cast of Class 30 Gray Iron material.
  - 2b. The base shall have four (4) receiver posts for accepting the rails.
  - 2c. The receiver posts shall have a positive locking system not a friction locking system. This insures a quick visual check will let the inspector know that the rails are secured to the base.
  - 2d. The receiver posts shall have a slot to enable the rails to be mounted in any direction to allow for fast set-ups and flexibility when installing.

D. Hardware:

1. The securing pins shall be made from 1010 carbon steel. The pins shall be zinc plated and yellow chromate dipped. The pins shall consist of a collared pin and a lanyard that connects to a lynch pin.
2. For Gate Assemblies Only. Bolts and washers shall be 3/8" x 3 1/2" and 3/8" x 3" grade 5, zinc plated. =

- E. Finish: Rails: Specify factory finish Safety Yellow Powder Coat Paint, Hot Dipped Galvanized or a color to mach the building.  
Bases: Specify factory finish Safety Yellow Powder Coat Paint, Hot Dipped Galvanized or a color to mach the building.

**PART 3 -**  
**EXECUTION**

3.01

**INSTALLATION**

Individuals shall read the installation and safety manual located in the instruction tube before installation.

**END OF SECTION**