

Better by Design

TM-SG TOP MOUNT STYLE ALUMINUM SAFETY GRATE SYSTEM



Syracuse Castings

Better By Design

Providing Fall Through Protection

Whether a new installation or a retrofit, our Safety Gate System provides the same security and safety for workers.

Syracuse Castings builds products that are "Better by Design." Our engineers are in the field listening to what you say about the form, function and maintenance of our products. We incorporate what we have learned into our designs so that our products will provide years of operation.

Easy to Install or Retrofit

Our Safety Gate System is manufactured to make new installations and retrofits equally easy to install. In many cases all that is necessary is the removal of the existing cover and hinges. The new hatch is then lagged to the top of the existing structure.

Safety and Security

Our grates cover an opening and provide fall through protection in conformance with OSHA standard 1910.23.

Standard features include:

- Doors cannot be closed unless the fall through protection has been put back in place (protecting the next operator).

- Existing pump guide rail system is left in place; no fooling with pump brackets.
- Visual inspections, limited maintenance and float adjustment can be done while safety gate is left in place.
- Safety orange grates create a visual barrier around the pit; TGIC powder coating promotes a visual awareness of the hazard and provides a mar-resistant finish.

Quality Components

Built with all stainless steel hardware, grates are also designed to withstand corrosive environments and provide 300 P.S.F. pedestrian rated fall through protection.

State-of-the-Art Manufacturing

We strive for continuous improvement in all of our manufacturing processes. Lean manufacturing techniques translate into savings for our customers and improved lead times. Try us and you will see the difference "Better by Design" makes.

Call today, 800-999-2601.

Doors cannot be closed unless the fall through protection has been put back in place.

Is this your safety net?



Employees are injured in falls each year.

Doors cannot be closed unless fall through protection has been put back in place – protecting the next operator at the site.



Aluminum 1/4" Diamond Plate Cover
With all stainless steel hardware



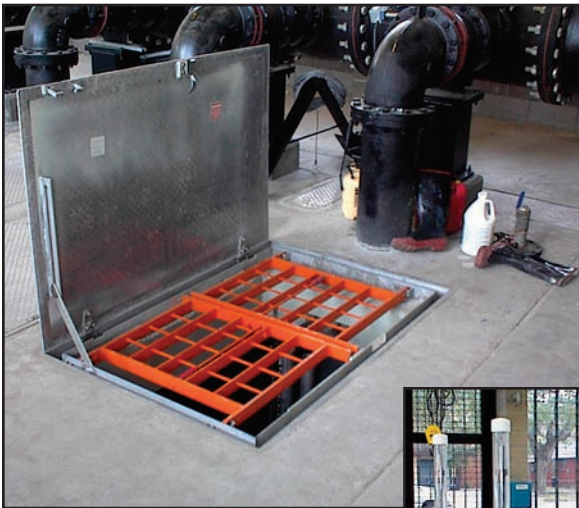
Closed Safety Grates
Provide 300 P.S.F. pedestrian rated fall through protection



Open Safety Grates
Safety orange aluminum grates provide a visual barrier around pit

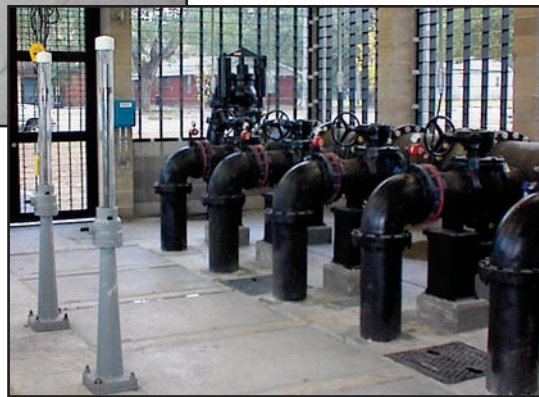
Security and Safety

Visible Hazard Barrier
Safety orange TGIC epoxy powder coating is highly visible for hazard areas.



Visual Inspection
Limited maintenance can be performed with safety grates in place

Aluminum Safety Grate System



Technical Specifications

- Design shall combine covering of the opening, fall through protection per OSHA Standard 1910.23 and controlled confine space entry per OSHA Standard 1910.146.
- The Safety Grate shall be made of 6061-T6 aluminum and designed per the *Specifications for Aluminum Structures* by the Aluminum Association, Inc. 5th Edition, Dec. 1986 for "Bridge Type Structures".
- The grating shall be designed to withstand a minimum live load of 300 pounds per square foot using 17,300 psi as the design stress for the aluminum. Deflection shall not exceed 1/150" of the span.
- Grate openings shall allow for visual inspection, limited maintenance and float adjustments while the safety grate fall through protection is left in place.
- Design must assure that the fall through protection is in place before the doors can be closed, thereby protecting the next operator.
- Each grate shall be provided with a permanent hinging system, which will lock the grate in the 90° position once opened. Grates in the open position create a visual barrier around the opening, alerting passing pedestrians.
- Each aluminum safety grate shall be coated with a safety orange color, promoting visual awareness of the hazard, by a powder coat system, applied by the electrostatic spray process. The coating is a thermo-setting powder coat finish with a minimum thickness of 2 mils-4 mils and shall be baked at 350°-375°F until cured.
- Welding shall be in accordance with ANSI/AWS D1.2-90 Structural Welding Code for Aluminum.

Syracuse Castings was established in 1971. We design and manufacture cast iron and fabricated access products for the construction industry.

Syracuse Castings is committed to serving others in their efforts to create a safer public world.

With a state-of-the-art manufacturing facility and our innovative products, our customer-focused sales organization is committed to creating a safer public world through the best product designs, manufacturing and service.



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