



# Fall-Through Protection Solutions



**Fabricating Solutions  
Since 1916**

Manufacturing the most complete line of Fall-Through Protection products for pump stations, water and wastewater facilities, and other areas where the risk of a fall-through is present.

# STANDARD HATCH SAFETY GRATES

USF Fabrication's Standard Hatch Safety Grate can be installed on virtually any of our floor access hatches. The hinged grate operates independently of the door's reinforcing, insuring that the door will meet the specified load requirements even if the grate is damaged or removed



## FEATURES

- Grate system provides safety features in both its open and closed positions: When closed, it provides fall-through protection: When open, it acts as a vertical barrier: The 4" x 6" grate openings allow visibility for routine maintenance while the grate remains closed and locked, reducing the risk of fall-through
- Grates are aluminum with powder-coated safety orange finish, 316 Stainless steel hardware and hold-open device, staple for a padlock (padlock not included)
- Floor access door cannot be closed until the Safety Grate is closed, insuring that the fall-through protection grate is always in place when the door is opened
- Can be retrofitted into existing hatches and openings
- Available with a variety of optional features as well as custom sizes and configurations

# STANDARD HATCH SAFETY GRATES

Dual, Double and Multiple Hatch Safety Grates offer the same high-quality features for larger openings



## FEATURES

- Hatches with dual or double design safety grates offer a three-sided vertical barrier when in the open position
- Configurations for triple and four door hatches
- Provides the option for a barrier on three sides, with a safety chain to block the fourth side of an access opening

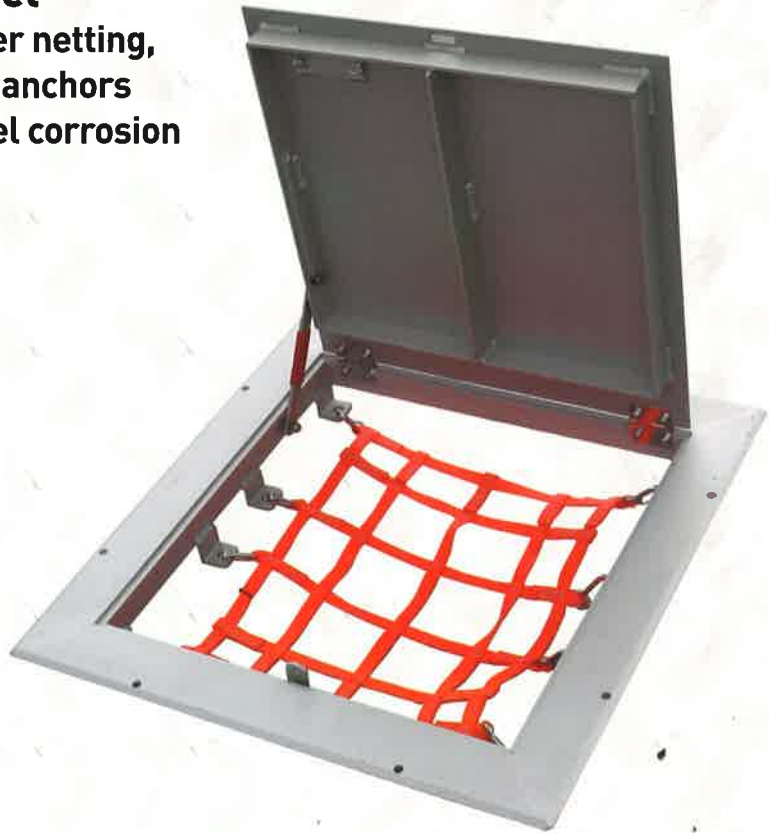
# ECONOMICAL ALTERNATIVES FOR FALL-THROUGH PROTECTION

## The Hatch Safety Net

Made of super strong polyester netting, attaches to aluminum angle anchors on the frame with stainless steel corrosion resistant hardware

### FEATURES

- Lightweight and easily retractable, ideal for larger openings
- Provides fall-through protection, visibility for inspection and accessibility for maintenance when closed
- Unhooks easily for full access into the area below
- Can be retrofitted in most floor access hatches, roof scuttles, automatic fire vents or skylights with minimal reduction of clear openings
- One (1) year warranty against defects in material and workmanship



## ASG/TSG Style

### FEATURES

- Available in 300 lbs. per square foot and 16,000 pound loading
- Integral safety grate provides economical and lightweight fall-through protection and maximizes clear opening
- Available with lift assist for larger/heavier grates.
- Can easily be "top-mounted" over existing openings or cast in concrete
  - All aluminum with stainless steel hardware and hold-open arm
  - Standard padlock staple on grate and recessed padlock box on door
  - 10 year warranty against defects in material and workmanship

# SPECIFICATIONS

## Standard Hatch Safety Gate

The access opening shall have a permanently installed fall-through protection grate system that provides safety features in both its open and closed positions. **When closed, it provides fall through protection. When open, it acts as a vertical barrier.** The 4" x 6" grate openings allow visibility for routine maintenance while the grate remains closed and locked, reducing the risk of fall-through. The system shall be a Standard Hatch Safety Gate as manufactured by USF Fabrication, Inc., Hialeah, FL, 1-800-258-6873 or approved equal.

The Fall-Through protection system shall consist of a grate made of 6061-T6 aluminum and be designed to withstand a minimum pedestrian load of 300 lbs. per square foot. The grate openings shall be 4" x 6". The grate will pivot on stainless steel hinges with 316 SS hardware. A 316 stainless steel hold-open device will engage to hold the grate in its full upright and locked position. The grate shall operate independent of the cover's reinforcing so that the cover will continue to meet specified load and deflection requirements, even if the grate is damaged or removed. An aluminum pull rod will be attached to the grate so the operator is positioned with the grate between him and the hatch's opening whenever he pulls on it to raise the grate. The hatch cover will not be able to shut until the grate is closed--thereby insuring the grate is in position when the next operator opens the hatch cover. The grate shall be powder-coated with an OSHA safety orange to increase visual awareness of the safety hazard.

Installation of the fall-through protection system shall be in accordance with the instructions provided by the manufacturer. The complete grate assembly shall be warranted against defects in material and workmanship for a period of 10 years from the date of purchase.

## ASG or TSG Series (300 lbs. per square foot or 16,000 pound loading) Aluminum Access Door with Integral Safety Gate

The floor access door shall be Model ASG – angle style frame or TSG – trough style, drainable frame for 300 lbs. per square foot or 16,000 pound loading. Manufactured by USF Fabrication with the size being specified on the plans. Door leaf shall be 1/4" thick aluminum diamond plate with integrated safety grating fall-through protection reinforced for a 300 lbs. per square foot combined live load or 16,000 pound loading for areas that may receive incidental vehicle traffic. Safety grating consists of an aluminum grate with 4" x 6" openings that rotates on hinges that are welded to the hatch frame. Safety grating shall be powder-coated with safety orange color. The safety grate shall lock in its full upright position utilizing a 316 stainless steel hold-open arm. The safety grate will include a padlock staple to allow a padlock to lock the grates in their closed position. The frame shall be manufactured from 1/4" aluminum material. The floor access door shall be equipped with a flush drop handle that does not protrude above the cover and a 316 stainless steel hold open arm with red vinyl grip that locks the cover in its full upright and open position. The door shall have 316 stainless steel hinges and 316 stainless steel tamper resistant bolts/locknuts. A recessed padlock hasp with spring-loaded cover shall be supplied for security. An adhesive-backed vinyl material, that protects the product during shipping and installation, shall cover the entire top of the frame and cover. Installation shall be in accordance with the manufacturer's attached instructions. The door shall be manufactured and assembled in the United States. Manufacturer shall guarantee the door against defects in materials and workmanship for a period of 10 years.

## Hatch Safety Net

The Hatch Safety Net's polyester netting is made of one inch (1") wide strap material in OSHA safety orange with nominal 5" x 5" openings. The net attaches to aluminum angle anchors that are either welded to the hatch's frame or secured below the frame with anchor bolts. The anchors are located on opposite sides of the hatch opening. The net is attached on one side by stainless steel shackles, on the other side by stainless steel spring clips that can be detached easily from the aluminum angle anchors to allow access to the vault area. The Hatch Safety Net complies with OSHA standard 1926.502 (c) (4) (i) Drop Test. The complete net assembly is warranted against defects in material and workmanship for up to one (1) year after purchase.