

Table of Contents

COMPANY HISTORY

Quality and Warranty Information

FLOOR ACCESS DOORS

Guide to Using ASTM-C1802-14

APS/APD

Angle Frame Pedestrian Loading Single or Double Leaf

TPS/TPD

Trough Drainable Frame Pedestrian Loading Single or Double Leaf

APS/APD Retrofit

Angle Frame Pedestrian Loading Single or Double Leaf Retrofit

BPS

Basin Pedestrian Loading Single Door

BPC

Basin Pedestrian Cover

RPS

Round Frame Pedestrian Loading Single Door

TRAFFIC RATED DOORS

AHS/AHD

Angle Frame Heavy-Duty Loading Single or Double Leaf

THS/THD

Trough Drainable Frame Heavy-Duty Loading Single or Double Leaf

P-AHS/AHD

Parking Lot Traffic Angle Frame Heavy-Duty Loading Single or Double Leaf

DT93-AHS/D

Direct Traffic Angle Frame Heavy-Duty Loading Single or Double Leaf

SAFETY GRATE DOORS/ FALL THROUGH PROTECTION

ASGS/ASGD – 300PSF

Angle Frame with Integral Safety Grate Single or Double Leaf Pedestrian Loading

ASGS/ASGD – HD

Angle Frame with Integral Safety Grate Single or Double Leaf H2O Loading

TSGS/TSGD – 300PSF

Trough Frame with Integral Safety Grate Single or Double Leaf Pedestrian Loading

TSGS/TSGD – HD

Trough Frame with Integral Safety Grate Single or Double Leaf H2O Loading

Fall Through Protection Systems

Effect of Safety Grate on Hatch Clear Openings

WATERTIGHT/FLOOD RESISTANT

W-APS/APD

Watertight Angle Frame Pedestrian Loading Single or Double Leaf

W-AHS/AHD

Watertight Angle Frame H2O Loading Single or Double Leaf

FPS

Flood Resistant Pedestrian loading Single leaf

FLOOR DOORS- AVAILABLE OPTIONS

Locking and Latching Options

Lift Assist Options

Miscellaneous Options

Hinge Configurations

UTILITY DOORS

UEZS/UEZD

Utility Single or Double leaf

UEZ-180

Utility With Full Lift Assist

FC-U

Frame and Cover Utility

SPECIAL APPLICATION DOORS

ALH

Aircraft Load Hatch

EED

Emergency Egress Door

ARCHITECTURAL DOORS

R-APS/APD

Recessed Angle Frame Pedestrian Loading Single or Double Leaf

R-TPS/TPD

Recessed Trough Frame Pedestrian Loading Single or Double Leaf

FD/FD-P

Fire Rated Floor Doors

SRR-I/E

Security Reservoir or Roof Internal or External Mounting Flange

ACCESSORY ITEMS

Hoists

Pump Guide Rail Brackets

Vault Ladders

Mixer Pump Mast Systems

Miscellaneous Accessories

Lifting Bails, Trash Baskets, Pedestals, Anchor Bolts

Submersible Propeller Pump Tubes

Drainage Grating

Miscellaneous Fabrication and Rolling

Cast Iron Products





USF FABRICATION

USF Fabrication is part of Eagle Manufacturing Group. Our roots date back to 1916 when Alex DeBogory Sr. established the 7th Street Bicycle Repair and Welding Company near downtown Miami.

Our founder believed then, and it holds true now, that “A solid foundation is a prerequisite to build” whether constructing a product or building a business. He recognized that quality products, superior craftsmanship and outstanding customer service would serve as this foundation.

In 1937, US Foundry & Manufacturing was incorporated. The company was built on the foundations of the 7th Street Bicycle Repair and Welding Company and later U.S. Welding & Iron Works (1920-1937). In 1984, the Fabrication Division of US Foundry & Manufacturing was formed.

As US Foundry and the Fabrication Division grew, we recognized that we could best serve our customers with brands that would better identify our exceptional products and services. This thinking would also give each of our employees a tremendous sense of identity and pride.

In August 1996, the Fabrication Division of US Foundry & Manufacturing, Corp. became USF Fabrication, Inc. and relocated to a modern 83,000 square foot manufacturing facility in South Florida. The company continued to grow and in 2007 we opened an additional 85,000 square foot facility in Ogden, Utah to help service our customers in the western United States and Canada. USF Fabrication consists of four divisions: Aluminum Floor Access Door Division, Steel Fabrication Division, Steel Grating Division and the Rolling Division.

Four generations of the DeBogory Family have guided the company, which is now an industry leader, into the 21st century and will continue to lead us into the future. USF Fabrication, Inc. holds fast to the strong foundation on which we were built. We will continue to “Set the Standard” by investing in our people and technology, continually improving our products and processes while developing new products in order to better serve our customers needs.



Original Plant - 1916



Hialeah, FL Plant - 1996



Ogden, UT Plant - 2007



Quality and Warranty Information

USF FABRICATION QUALITY POLICY

USF FABRICATION WILL MAINTAIN QUALITY SYSTEMS THAT ENSURE ALL PRODUCTS AND SERVICES PROVIDED TO OUR CUSTOMERS WILL MEET OR EXCEED THE CUSTOMERS' EXPECTATIONS.

LIMITED WARRANTY

USF Fabrication warrants the following products against defects in material or workmanship from the time of delivery:

- Steel Hatches and Access Doors for five (5) years
- Aluminum Hatches and Access Doors for ten (10) years
- Miscellaneous Fabrication for one (1) year

**FOR A COMPLETE WARRANTY
PLEASE SEE OUR WEBSITE**



Introduction to Floor Access Doors



Description

USF Fabrication floor access doors set the standard for quality and durability. Our doors are designed to provide safe and convenient access for any application. Whether your application is below grade or between building floors, our doors will provide the perfect solution. We manufacture a complete line of doors in aluminum, steel or stainless steel with load ratings for pedestrian, H-20 vehicular and airport traffic. We pride ourselves on "Fabricating Solutions" and can manufacture floor doors to virtually any specification and size.

Typical Applications

- Pump stations
- Electrical vaults
- Valve vaults
- Telecommunication vaults
- Water systems
- Storage tanks
- Sea Port facilities
- Rapid transit systems
- Sewage treatment facilities
- Wastewater treatment facilities
- Airports

Features and Benefits

All USF Fabrication floor access doors come equipped with:

- A flush drop handle to assist with opening
- 316 stainless steel hardware and hinges
- Hold-open arms with **secondary latch mechanism** to insure doors lock in their full upright and open position

A wide range of standard and custom sizes are available.

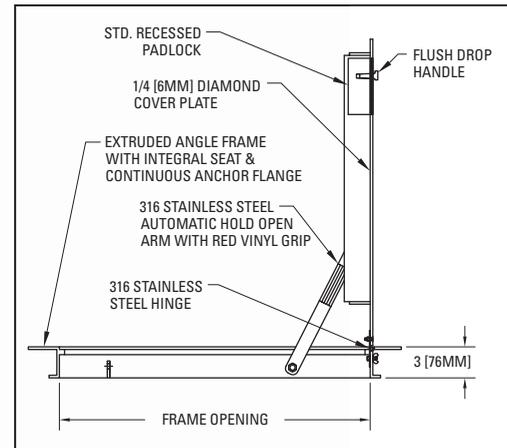
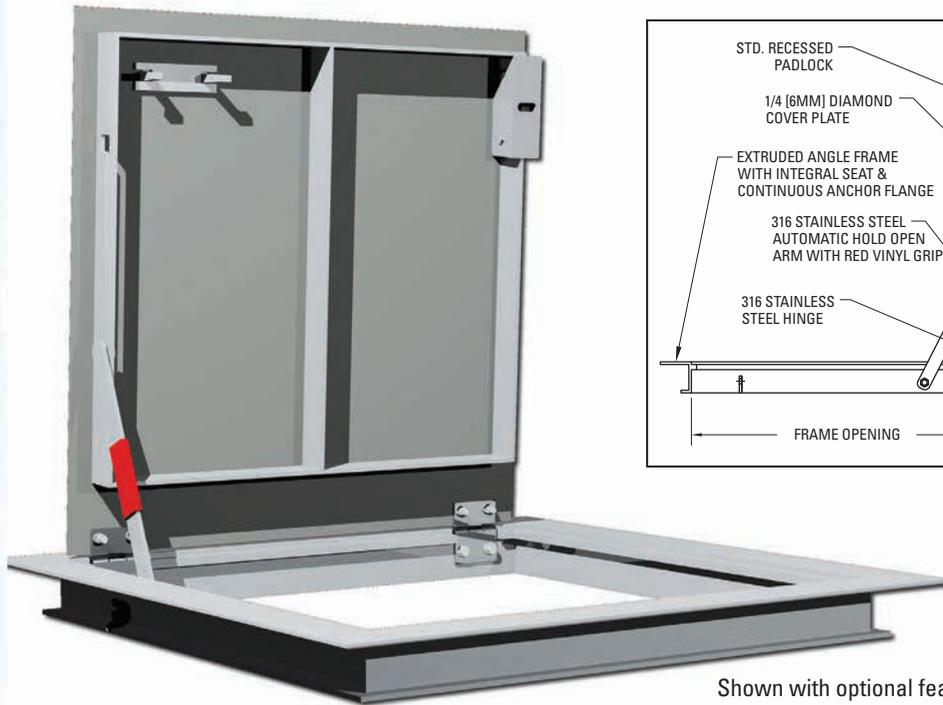
A variety of optional features to meet any specification. *SEE AVAILABLE OPTIONS TAB*

Available in single, double and multiple door configurations. *SEE AVAILABLE OPTIONS TAB*



USF Fabrication Guide to Using
ASTM C1802-14
Standard Specification for Design, Testing, Manufacture, Selection, and Installation of
Fabricated Metal Access Hatches for Utility, Water, and Wastewater Structures

LOAD LEVEL	TYPE OF LOAD	AREA OF USE	DESIGN LOADING AND ALLOWABLE DEFLECTION	EXAMPLES OF APPROPRIATE USE	RECOMMENDED USF FABRICATION PRODUCTS	ACCEPTABLE MATERIAL
1	Light Pedestrian Loads	Restricted to walkways and other areas that are totally inaccessible to all vehicle traffic	150 pounds per square foot/300 pounds on a 5.5 inch x 5.5 inch area; deflection limited to span/200 (not to exceed 3/16 inch)	Interiors of buildings, elevated walkways, and elevated platforms with top surfaces a minimum of one foot above finished grade	APS/APD, TPS/TPD, APS/APD RETROFIT, BPS, BPC, RPS, ASGS/ASGD 300PSF, TSGS/TSGD 300PSF, W-APS, FPS, SRR, R-APS/APD, R-TPS/TPD, FD/FDP	Aluminum, Steel or Stainless Steel
2	Pedestrian Loads	Restricted to pedestrian and light maintenance vehicle use; area inaccessible to all other vehicle traffic	300 pounds per square foot/600 pounds on a 5.5 inch x 5.5 inch area; deflection limited to span/200 (not to exceed 3/16 inch)	Walkways and landscape areas where curbs, bollards, or both restrict vehicle access	APS/APD, TPS/TPD, APS/APD RETROFIT, BPS, BPC, RPS, ASGS/ASGD 300PSF, TSGS/TSGD 300PSF, W-APS, FPS, SRR, R-APS/APD, R-TPS/TPD, FD/FDP	Aluminum, Steel or Stainless Steel
3	Light Vehicular Traffic	Restricted to parking spaces accessible only to passenger vehicles, and protected areas within close proximity of roadways	8000 pounds on a 10 inch x 10 inch footprint without dynamic (impact) load/80 pounds per square inch on top plate surface; deflection limited to span/250 (not to exceed 3/16 inch)	Parking spaces not accessible to commercial truck traffic, landscape and other non-paved areas adjacent to parking areas	AHS/AHD, THS/THD, UEZS/UEZD, ASGS/ASGD 16K, TSGS/TSGD 16K, W-AHS	Aluminum, Steel or Stainless Steel
4	Occasional Truck Traffic	Restricted to parking spaces, and areas within close proximity of roadways	16,000 pounds on a 10 inch x 20 inch footprint without dynamic (impact) load/80 pounds per square inch on top plate surface; deflection limited to span/250 (not to exceed 3/16 inch)	Unpaved areas where heavily loaded truck traffic is not intended, and that are not protected by curbs or bollards	AHS/AHD, THS/THD, UEZS/UEZD, W-AHS	Aluminum, Steel or Stainless Steel
5	Off Street Truck Traffic	Restricted to unrestricted parking lanes, and alleyways where the traffic speed is limited to 15 miles per hour	16,000 pounds on a 10 inch x 20 inch footprint with a 30% dynamic (impact) load/104 pounds per square inch on top plate surface; deflection limited to span/300 (not to exceed 3/16 inch)	Parking lots, alleyways and other areas where commercial truck traffic is intended	P-AHS, P-AHD	Steel or Stainless Steel
6	Two-lane Vehicular / Truck Traffic	Restricted to two lane streets (one lane in each direction) with a maximum posted speed limit of 35 miles per hour	16,000 pounds on a 10 inch x 20 inch footprint with a 33% dynamic (impact) load/106.4 pounds per square inch on top plate surface; deflection limited to span/800 (not to exceed 3/16 inch)	Residential streets and other roadways with limited heavily loaded truck traffic and the shoulders or medians of other roadways	DT93-AHS, DT93-AHD	Steel or Stainless Steel
7	Full Traffic	For use in multi-lane roadways with a maximum posted speed limit of 70 miles per hour	16,000 pounds on a 10 inch x 20 inch footprint with a 33% dynamic (impact) load/106.4 pounds per square inch on top plate surface; deflection limited to span/800 (not to exceed 3/16 inch)	Highways and roadways with posted speed limit greater than 35 MPH. Roads that lead into seaport facilities, military bases, freight terminals or other areas where there is continuous heavy truck traffic	DT93-AHS, DT93-AHD and Cast Iron	Steel, Stainless Steel and Cast Iron
8	Occasional Aircraft Loads	For use in unpaved runway safety zones	75,000 pounds with 250 psi tire pressure without dynamic (impact) load, or the specific airport design criteria; deflection limited to span/800 (not to exceed 3/16 inch)	Grass areas between taxiways	ALH - Aircraft Load Hatch	Steel, Stainless Steel or Cast Iron
9	Aircraft Loads	For use in taxiways and aprons (not for use in runways)	75,000 pounds with 250 psi tire pressure with a 33% dynamic (impact) load and a 0.70 gravity breaking load, or the specific airport design criteria; deflection limited to span/800 (not to exceed 3/16 inch)	Any paved taxiway or ramp area accessible to aircraft	ALH - Aircraft Load Hatch	Steel, Stainless Steel or Ductile Iron
10	Special Equipment Loads	Such as mining equipment, port equipment, cranes, and earth moving equipment	The axle loads, the axle spacing, tire width, and tire pressure to be provided by the purchaser; a 33% dynamic (impact) load shall be utilized; deflection limited to span/800 (not to exceed 3/16 inch)	Seaports, and heavy industrial work zones	Please call to discuss	TBD

APS/APD**Angle Frame Pedestrian Loading Single or Double Leaf**

Shown with optional features

General Description

Angle frame floor access doors are the most economical solution for interior or exterior applications where water intrusion is not a concern.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material with integral anchoring systems
- Covers:** 1/4" diamond plate reinforced for 300 PSF Pedestrian loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** Staple for padlock protrudes through cover
- Lift handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

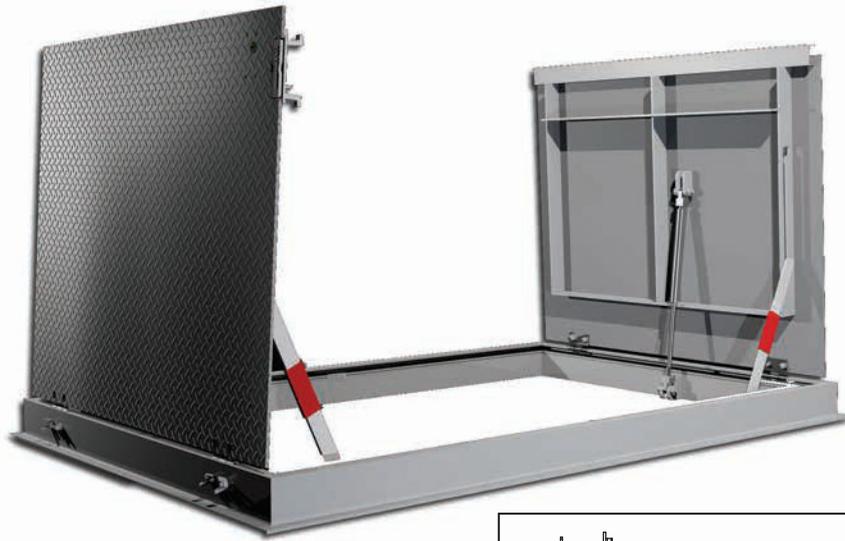
AVAILABLE IN SINGLE, DOUBLE AND MULTIPLE DOOR CONFIGURATIONS



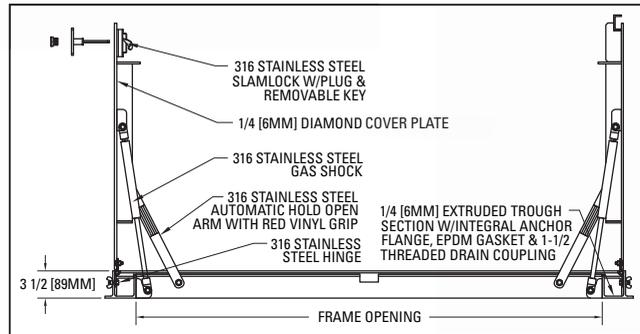
Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

TPS/TPD

Trough Drainable Frame Pedestrian Loading Single or Double Leaf



Shown with optional features



General Description

The trough (channel frame) type floor access door with a drainable frame is designed for interior and exterior applications to reduce the amount of water, dirt and debris entering the area below.

These doors should not be considered watertight, for watertight applications see watertight/flood resistant door tab.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material; Extruded (aluminum only) or fabricated trough section with integral anchoring systems and 1- 1/2" threaded drain coupling
- Covers:** 1/4" diamond plate reinforced for 300 PSF Pedestrian loads
- Gasket:** EPDM Odor Reduction Gasket
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** Staple for padlock protrudes through cover
- Lift handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

AVAILABLE IN SINGLE, DOUBLE AND MULTIPLE DOOR CONFIGURATIONS

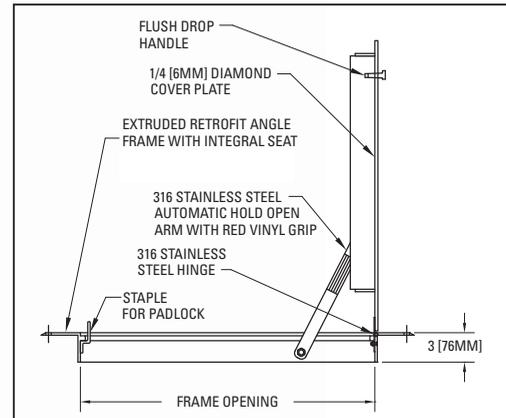
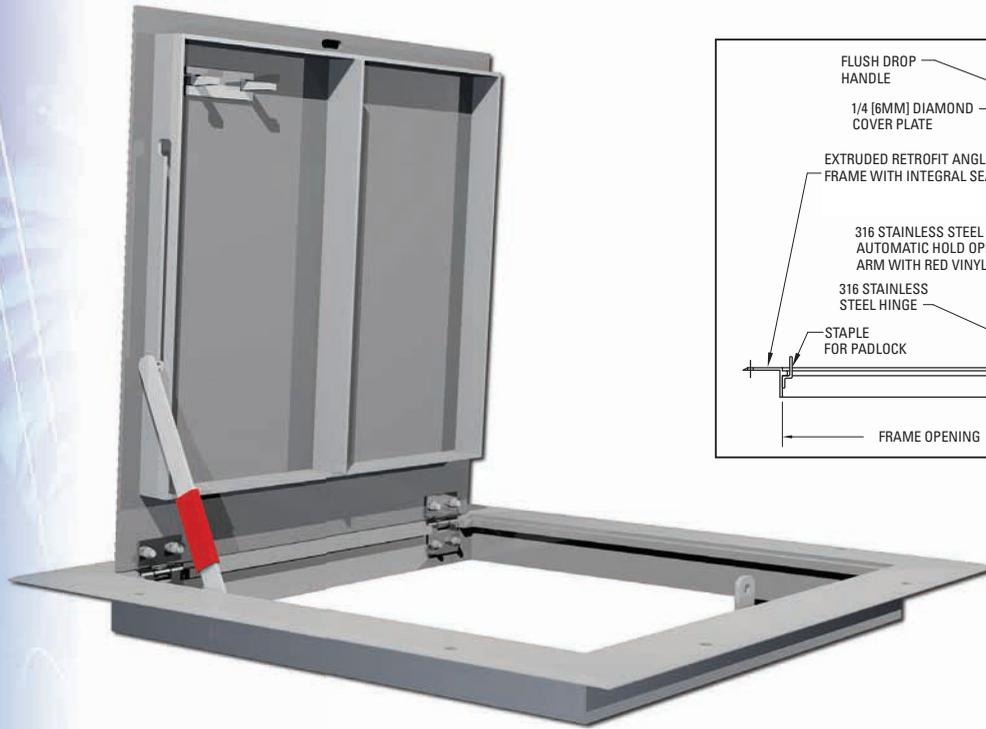


Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



APS/APD Retrofit

Angle Frame Pedestrian Loading Single or Double Leaf Retrofit



General Description

The retrofit angle frame floor access door is designed for interior and exterior applications where watertightness is not required. The frame is to be installed into an existing opening.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material with horizontal flange that has 9/16" diameter holes for bolting into the existing opening and an integral door seat on all four sides
- Covers:** 1/4" diamond plate reinforced for 300 PSF Pedestrian loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** Staple for padlock protrudes through cover
- Lift handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five(5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

AVAILABLE IN SINGLE, DOUBLE AND MULTIPLE DOOR CONFIGURATIONS

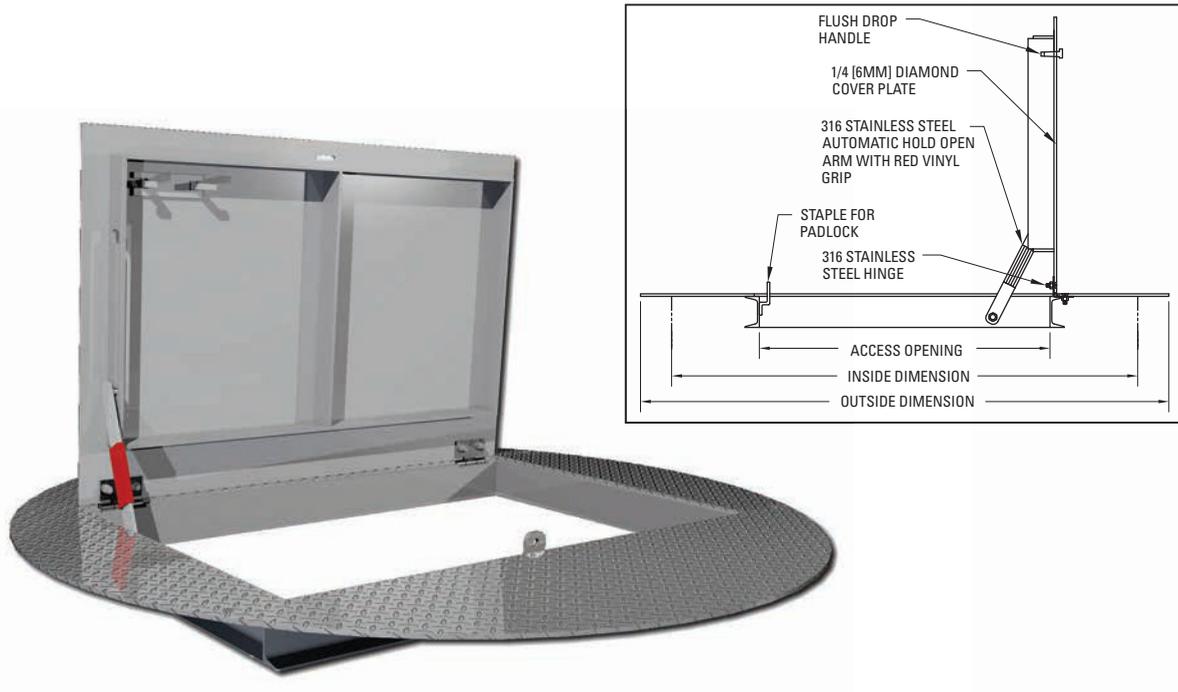


Light Pedestrian / Pedestrian

ASTM C1802-14 Load Level 1 & 2

BPS

Basin Pedestrian Loading Single Door



General Description

These round basin covers with an integrated access hatch are designed for interior and exterior applications where watertightness is not required. The cover is to be bolted onto a concrete or fiberglass basin.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Covers:** 1/4" diamond plate reinforced for 300 PSF Pedestrian loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** Staple for padlock protrudes through cover
- Lift handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

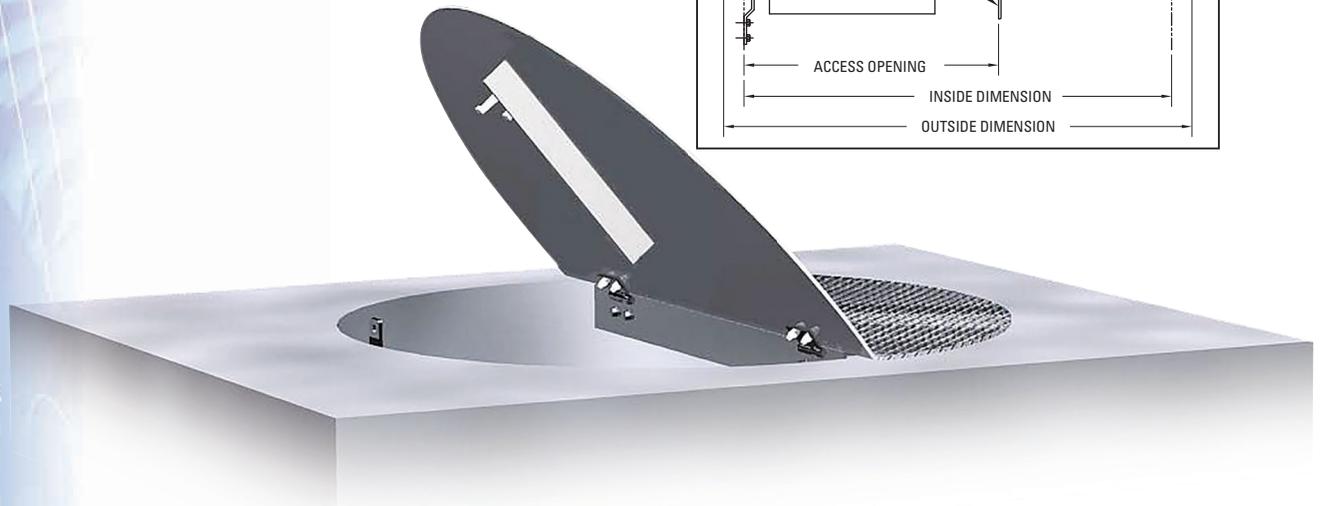
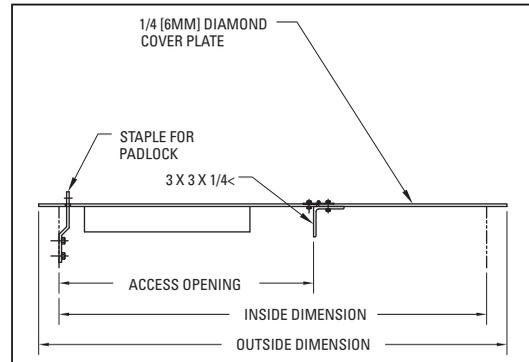


Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



BPC

Basin Pedestrian Cover



General Description

These round basin covers are designed for interior and exterior applications where watertightness is not required. This is your most economical alternative to a traditional top slab for round concrete or fiberglass basins.

Standard Features/Specifications

Material:	Aluminum, steel or stainless steel available
Frame:	N/A
Covers:	1/4" diamond plate reinforced for 300 PSF Pedestrian loads
Hardware:	All 316 SS nuts, bolts and washers
Hold-Open Device:	N/A
Lock device:	Staple for padlock protrudes through cover
Lift handle:	Recessed lift handle lays flush with top of cover
Warranty:	Ten (10) years on aluminum, five (5) years on steel and stainless steel

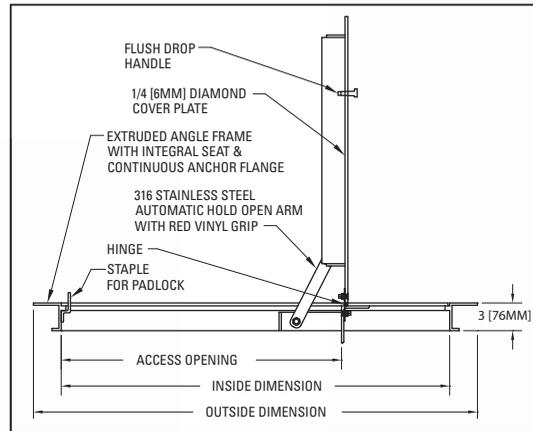
SEE AVAILABLE OPTIONS TAB



Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

RPS

Round Frame Pedestrian Loading Single Door



General Description

These round floor access doors are designed for interior and exterior applications where watertightness is not required. They are designed to be cast into concrete.

Standard Features/Specifications

- Material:** Aluminum
- Covers:** 1/4" diamond plate reinforced for 300 PSF Pedestrian loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** Staple for padlock protrudes through cover
- Lift handle:** Recessed aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB



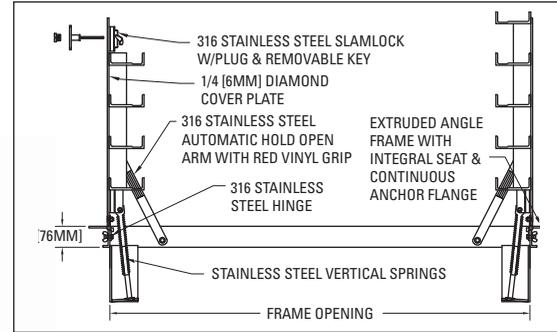
Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



AHS/AHD

Angle Frame Heavy-Duty Loading Single or Double Leaf

TRAFFIC/H20



General Description

The heavy-duty angle type floor access door is designed for interior and exterior applications where watertightness is not required. It is designed for off-street locations that may occasionally receive AASHTO H-20 wheel loads. NOT DESIGNED FOR PARKING LOTS OR OTHER PAVED AREAS.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material with integral anchoring systems. All parts of the frame coming in contact with concrete shall be coated with bituminous paint
- Covers:** 1/4" diamond plate reinforced for AASHTO H-20 wheel loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** 316 SS slamlock with threaded plug, removable outside key and fixed inside handle
- Lift Assist:** Springs or gas shocks
- Lift Handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

AVAILABLE IN SINGLE, DOUBLE AND MULTIPLE DOOR CONFIGURATIONS

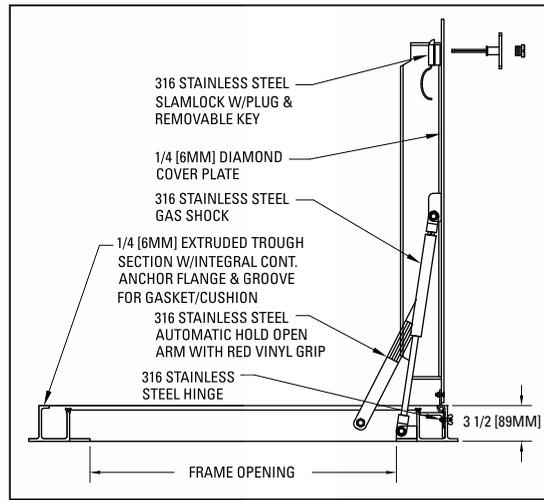
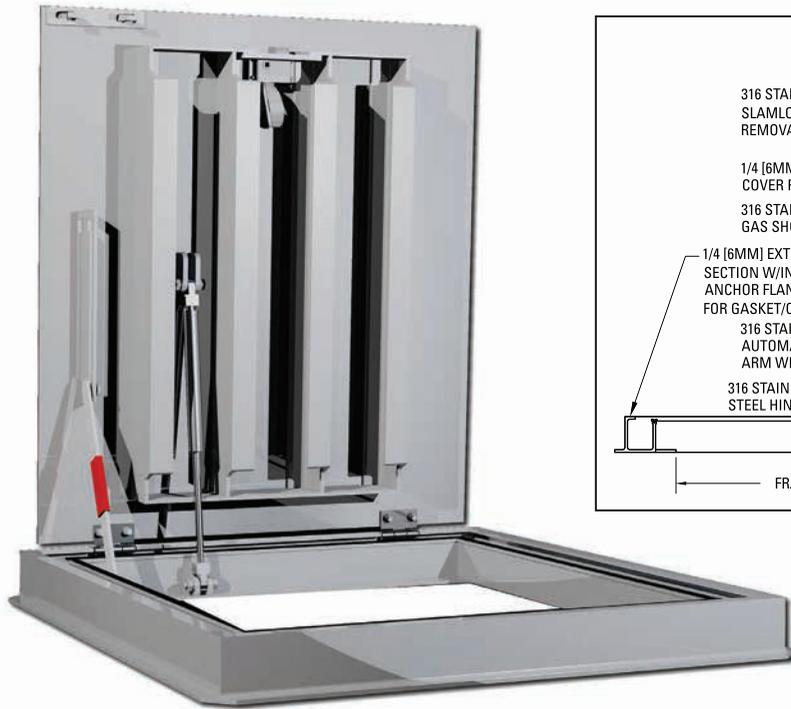


Light Vehicular / Occasional Truck Traffic

ASTM C1802-14 Load Level 3 & 4

THS/THD

Trough Drainable Frame Heavy-Duty Loading Single or Double Leaf



General Description

The heavy-duty trough (channel frame) type floor access door with a drainable frame is designed for interior and exterior applications to reduce the amount of water, dirt and debris entering the area below. It is designed for off-street locations that may occasionally receive AASHTO H-20 wheel loads. **NOT DESIGNED FOR PARKING LOTS OR OTHER PAVED AREAS. These doors should not be considered watertight. See watertight/flood resistant door tab.**

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material; extruded (aluminium only) or fabricated trough section with integral anchoring system and 1-1/2" threaded draincoupling. All parts of the frame coming in contact with concrete shall be coated with bituminous paint
- Covers:** 1/4" diamond plate reinforced for AASHTO H-20 wheel loads
- Gasket:** EPDM Odor Reduction Gasket
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock device:** 316 SS slamlock with threaded plug, removable outside key and fixed inside handle
- Lift Assist:** Springs or gas shocks
- Lift Handle:** Recessed lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB



Light Vehicular / Occasional Truck Traffic

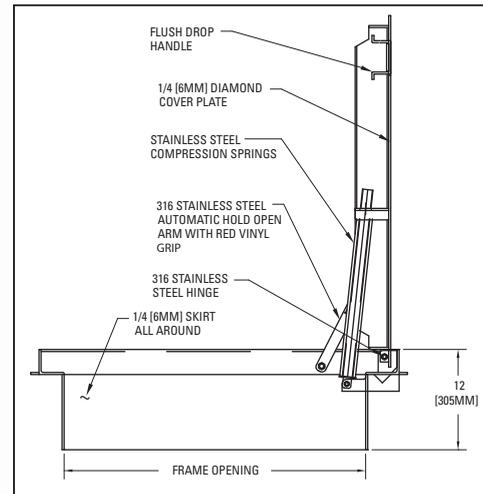
ASTM C1802-14 Load Level 3 & 4



P-AHS/AHD

Parking Lot Traffic Angle Frame Heavy-Duty Loading Single or Double Leaf

TRAFFIC/H20



General Description

The heavy-duty angle type floor access door is designed for interior and exterior applications where watertightness is not required. It is designed to receive AASHTO H-20 wheel loads in parking lots and alley ways where the posted speed limit does not exceed 15 mph.

Standard Features/Specifications

- Material:** Steel (hot dipped galvanized) and stainless steel
- Frame:** 1/4" material with anchoring system welded to the frame and skirt for 12" top slab
- Covers:** 1/4" diamond plate reinforced for AASHTO H-20 wheel loads
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock Device:** Cover(s) shall be bolted to the frame with 316SS bolts
- Lift Assist:** Stainless steel springs or gas shocks
- Lift Handle:** Recessed lift handle(s) lay flush with top of cover
- Warranty:** Five (5) years

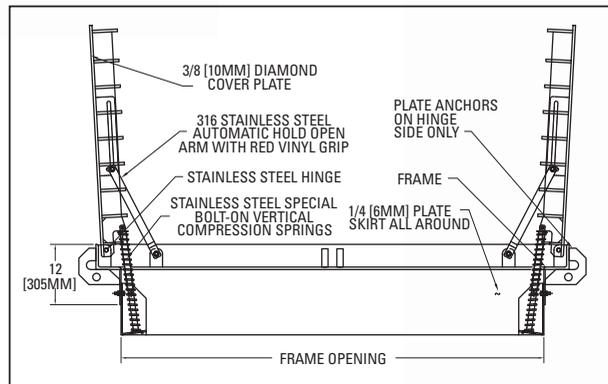
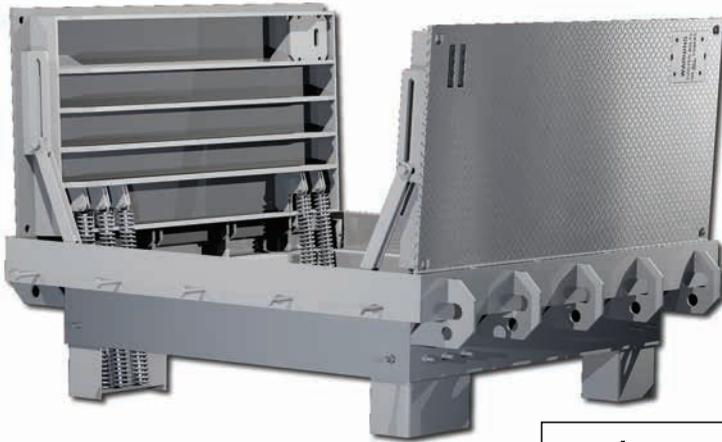
SEE AVAILABLE OPTIONS TAB



Off Street Truck Traffic
ASTM C1802-14 Load Level 5

DT93-AHS/AHD

Direct Traffic, Angle Frame, Heavy-Duty AASHTO HL-93 Loading, Single or Double leaf



General Description

The heavy-duty angle type floor access door is intended for use in direct traffic applications. Designed to receive AASHTO HL93 wheel loads, for use in roadways up to and including those designated as ASTM C1802-14 load level 7. May not be suitable for some roadways inside or leading to seaport facilities, airports, military bases, freight terminals or other areas where extreme loading may occur, **Please contact us at 800.258.6873 if you have questions about a specific application.**

Standard Features/Specifications

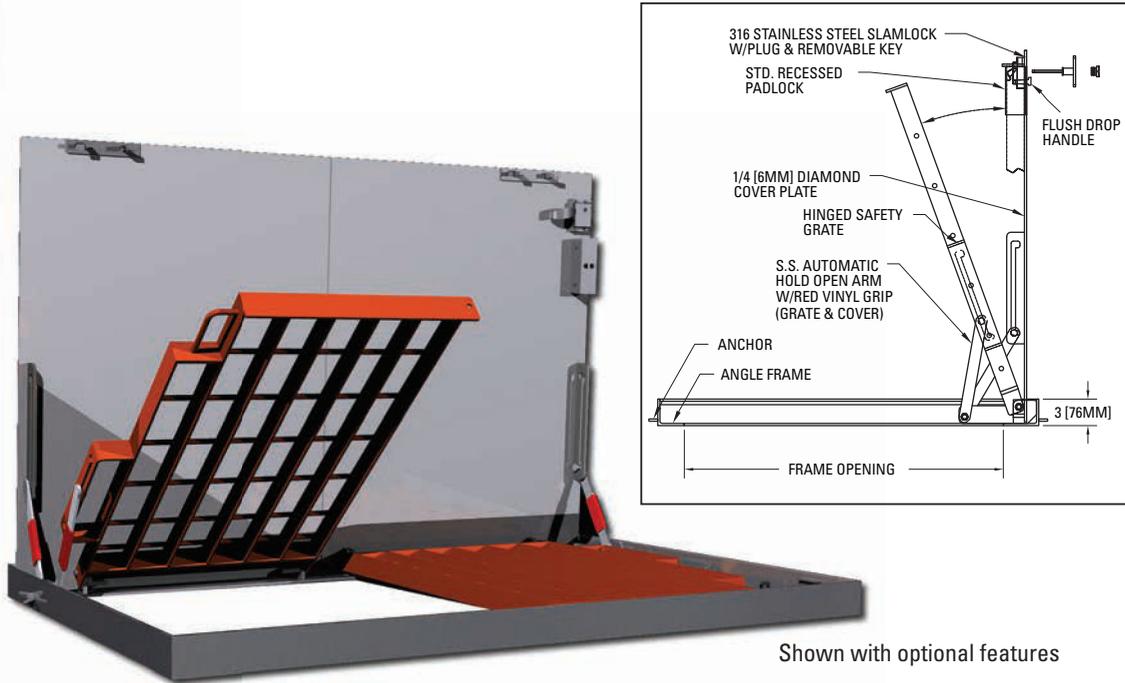
- Material:** Steel (hot dipped galvanized), stainless steel
- Frame:** 1/2" angle with special anchoring system welded to the frame and a skirt for a 12" top slab
- Covers:** 3/8" diamond plate reinforced for AASHTO HL-93 wheel loads
- Hardware:** 316 SS hinges and hinge pins
- Hold-Open Device:** 316 SS heavy duty hold-open arm
- Locking Devices:** Cover(s) are bolted to the frame with zinc plated grade 8 bolts
Recessed staple for a padlock
- Lift Assist:** Stainless steel compression springs
- Lift Handle:** Flush with top of cover
- Warranty:** Five (5) years

SEE AVAILABLE OPTIONS TAB



Two Lane Vehicular / Truck Traffic
ASTM C1802-14 Load Level 6 & 7



ASGS/ASGD – 300PSF*Angle Frame with Integral Safety Grate Single or Double Leaf Pedestrian Loading*

Shown with optional features

General Description

Designed with integral safety grate to maximize the clear opening while providing economical and reliable fall-through protection.

Standard Features/Specifications

- Material:** Aluminum only
- Frame:** 1/4" material with integral anchoring systems
- Covers:** 1/4" non-reinforced diamond plate
- Safety Grate:** Provides reinforcing for 300 PSF Pedestrian loads, safety orange color
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism** on each door and grate
- Lock Device:** 316 SS Slamlock on door and aluminum staple for padlock on grate
- Lift Handle:** Cast aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB

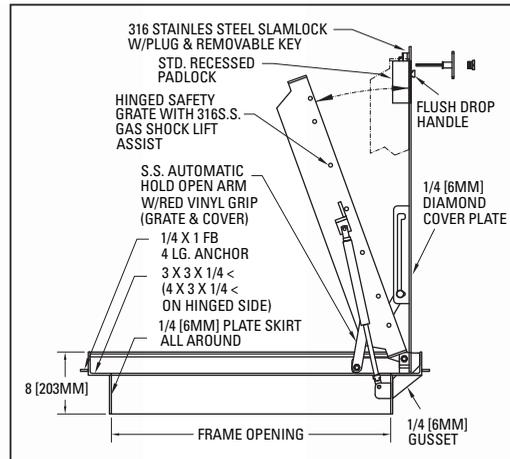
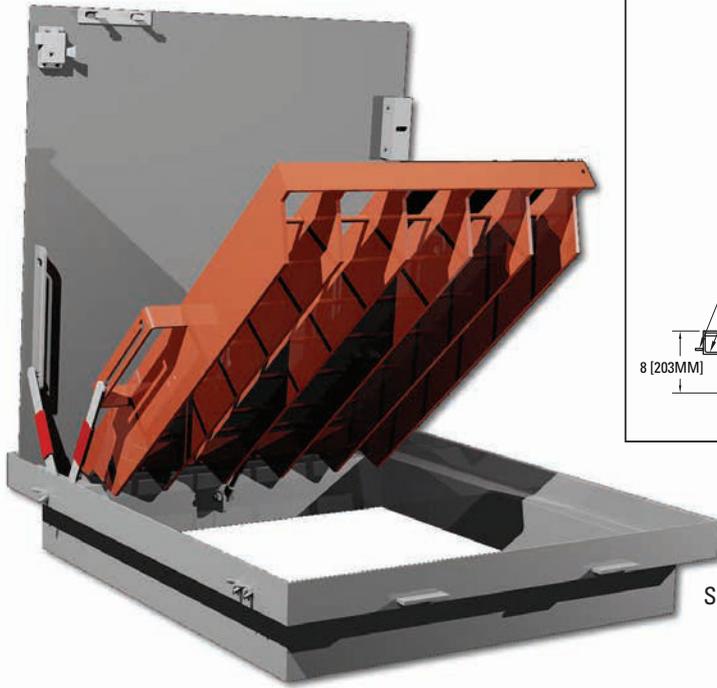
THIS DESIGN RELIES ON THE SAFETY GRATE FOR THE DOOR REINFORCEMENT, THEREFORE THE DOOR HAS NO LOAD BEARING CAPACITY IF THE SAFETY GRATE IS DAMAGED OR REMOVED.



Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

ASGS/ASGD – HD

Angle Frame with Integral Safety Grate Single or Double Leaf H2O Loading



Shown with optional features

General Description

Designed with integral safety grate to maximize the clear opening while providing economical and reliable fall-through protection. **Designed for incidental vehicle traffic only. Not designed for parking lots or other paved areas.**

Standard Features/Specifications

- Material:** Aluminum only
- Frame:** 1/4" material with integral anchoring systems
- Covers:** 1/4" non-reinforced diamond plate
- Safety Grate:** Provides reinforcing for H2O incidental wheel loads, safety orange color
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism** on each door and grate
- Lock Device:** 316 SS Slamlock on door and aluminum staple for padlock on grate
- Lift Assist on Grate:** Gas shocks
- Lift Handle:** Cast aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB

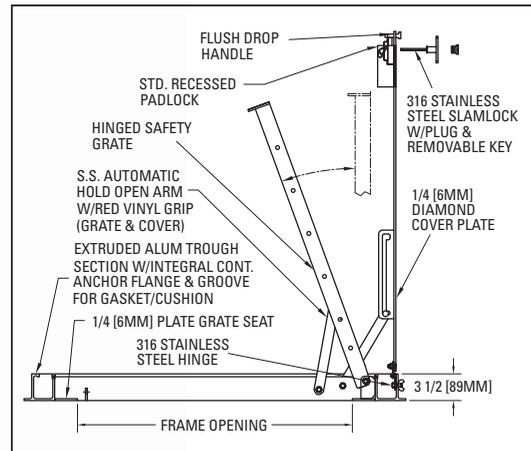
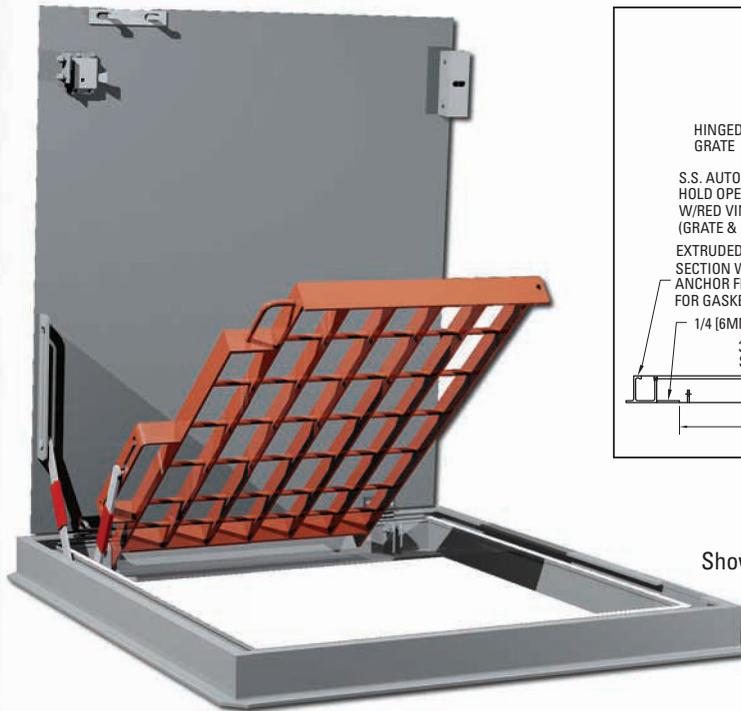
THIS DESIGN RELIES ON THE SAFETY GRATE FOR THE DOOR REINFORCEMENT, THEREFORE THE DOOR HAS NO LOAD BEARING CAPACITY IF THE SAFETY GRATE IS DAMAGED OR REMOVED.



Light Vehicular / Occasional Truck Traffic

ASTM C1802-14 Load Level 3 & 4



TSGS/TSGD – 300PSF*Trough Frame with Integral Safety Grate Single or Double Leaf Pedestrian Loading*

Shown with optional features

General Description

Designed with integral safety grate to maximize the clear opening while providing economical and reliable fall-through protection. Frame is drainable but should not be considered watertight.

Standard Features/Specifications

Material:	Aluminum only
Frame:	1/4" trough (drainable) with integral anchoring systems
Covers:	1/4" non-reinforced diamond plate
Gasket:	EPDM Odor Reduction Gasket
Safety Grate:	Provides reinforcing for 300 PSF Pedestrian loads, safety orange color
Hardware:	All 316 SS nuts, bolts and washers
Hold-Open Device:	316 SS Hold-open arm with secondary latch mechanism on each door and grate
Lock Device:	316 SS Slamlock on door and aluminum staple for padlock on grate
Lift Handle:	Cast aluminum lift handle lays flush with top of cover
Warranty:	Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB

THIS DESIGN RELIES ON THE SAFETY GRATE FOR THE DOOR REINFORCEMENT, THEREFORE THE DOOR HAS NO LOAD BEARING CAPACITY IF THE SAFETY GRATE IS DAMAGED OR REMOVED.



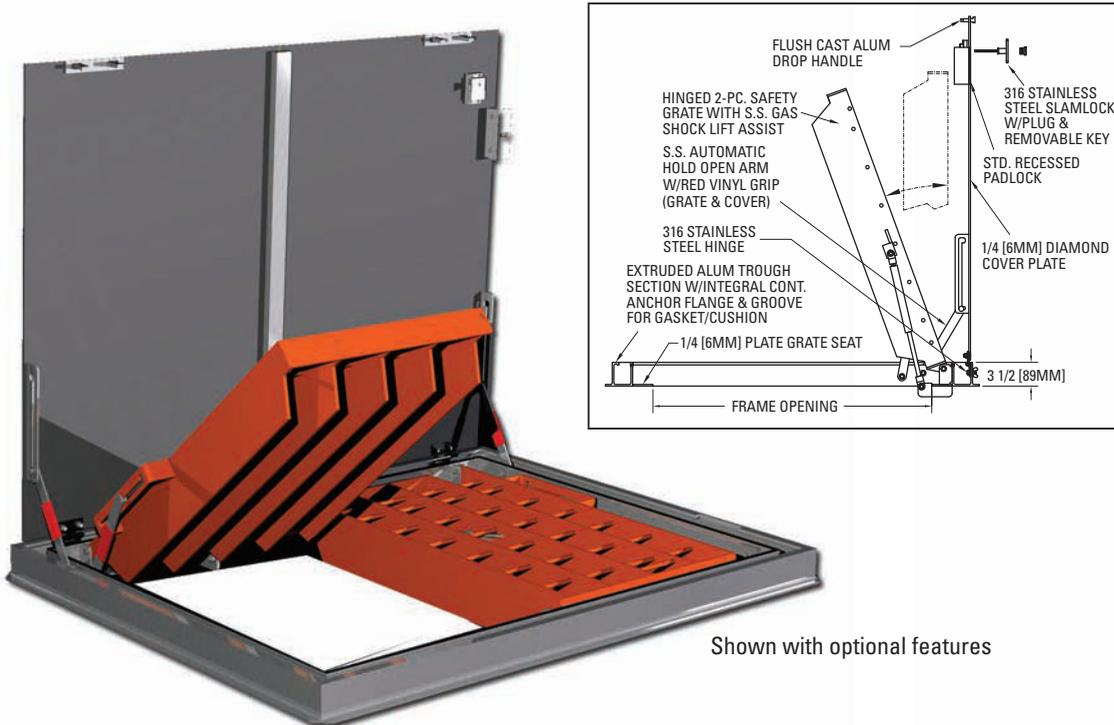
Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



TSGS/TSGD – HD

Trough Frame with Integral Safety Grate Single or Double Leaf H2O Loading

SAFETY GRATE/H2O



Shown with optional features

General Description

Designed with integral safety grate to maximize the clear opening while providing economical and reliable fall-through protection. Frame is drainable but should not be considered watertight. **Designed for incidental vehicles traffic only. Not designed for parking lots or other paved areas.**

Standard Features/Specifications

- Material:** Aluminum only
- Frame:** 1/4" trough (drainable) with integral anchoring systems
- Covers:** 1/4" non-reinforced diamond plate
- Gasket:** EPDM Odor Reduction Gasket
- Safety Grate:** Provides reinforcing for H2O incidental wheel loads, safety orange color
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism** on each door and grate
- Lock Device:** 316 SS Slamlock on door and aluminum staple for padlock on grate
- Lift Assist on Grate:** Gas shocks
- Lift Handle:** Cast aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB

THIS DESIGN RELIES ON THE SAFETY GRATE FOR THE DOOR REINFORCEMENT, THEREFORE THE DOOR HAS NO LOAD BEARING CAPACITY IF THE SAFETY GRATE IS DAMAGED OR REMOVED.



Light Vehicular / Occasional Truck Traffic

ASTM C1802-14 Load Level 3 & 4



USF Fabrication Fall-Through Protection



Single Hatch Safety Grate

Hatch Safety Grate

DESCRIPTION: The hatch safety grate smoothly rotates to its open, upright position and locks in place by a Hold-open device. The aluminum grate has an OSHA safety orange finish. Hardware components are made of stainless steel to resist corrosion.

FEATURES: When in its closed position, the hatch safety grate provides fall-through protection while allowing limited accessibility into the vault for maintenance purposes and visibility for inspections (nominal 4 x 6 inch grate openings). When opened, it acts as an additional barrier to the access door opening. Finally, since the hatch cover cannot be shut without first closing the hatch safety grate, this fall-through system is always in its closed position when the next operator opens the hatch's cover. **USF Fabrication safety grates operate independently of the cover's reinforcing so that the cover continues to meet its specified load and deflection requirements, even if the grate is damaged or removed. (Grate is designed for 300 PSF loading.)**

RETROFIT: The hatch safety grate can be retrofitted onto the vault walls under an access door that is already in service. While it can be made to fit the custom dimensions of most floor access hatches, there are size limitations for this alternative.



Dual Hatch Safety Grate

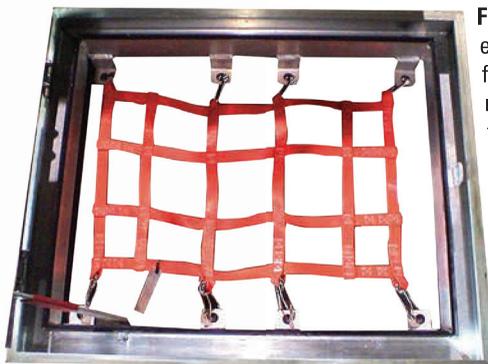


Double Hatch Safety Grate

For large openings, USF Fabrication makes a dual safety grate that hinges on opposite sides of the hatch frame and double safety grate that hinges on same side of the hatch frame. These configurations can place a barrier on three sides of the hatch's opening. A safety chain can be employed to block the fourth side of the opening.

Hatch Safety Net

DESCRIPTION: The hatch safety net is the most economical fall-through protection alternative. The hatch safety net is made of super strong polyester netting which attaches to aluminum angle anchors on the frame by corrosion resistant stainless steel hardware.



Hatch Safety Net

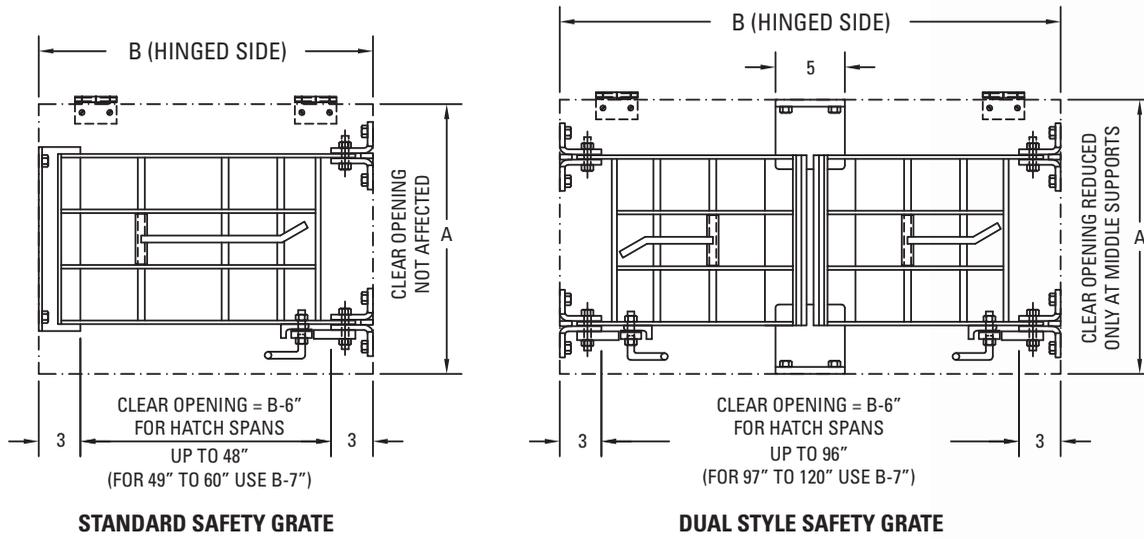
FEATURES: The lightweight design of the hatch safety net makes it easily retractable in floor and roof openings. When closed, it provides fall-through protection, the greatest visibility for inspections and the most accessibility for limited maintenance (e.g., float adjustments) in the work area below. When necessary, the net can be easily unhooked to permit full access into the confined space. (Complies with OSHA standard 1926.502, Drop Test)

RETROFIT: The hatch safety net can be economically and easily retrofitted into existing openings. It can be manufactured to fit the custom dimensions of almost any type floor access hatch, roof scuttle, automatic fire vent or skylight with minimal reduction of their clear opening.



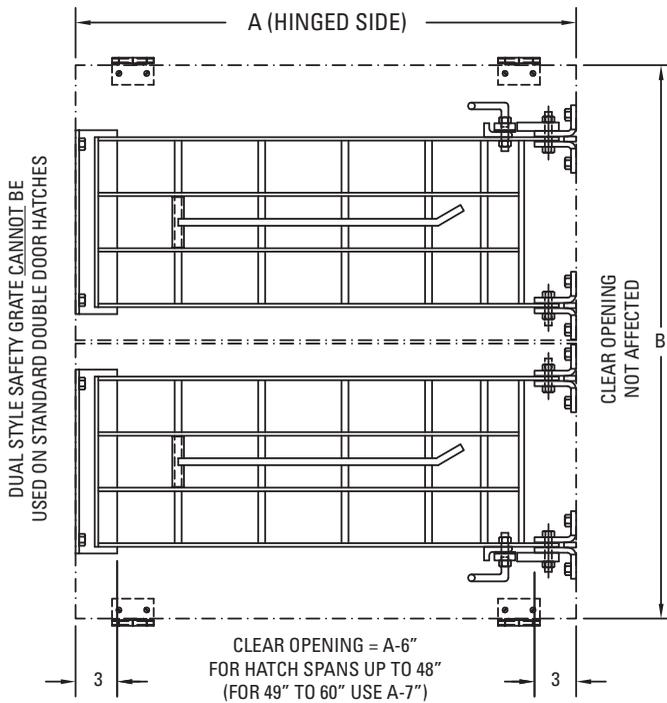
Effect of Safety Grate on Hatch Clear Openings

FALL THROUGH PROTECTION



SINGLE DOOR HATCH

Also applies to double door hatch when hinged on the same side.

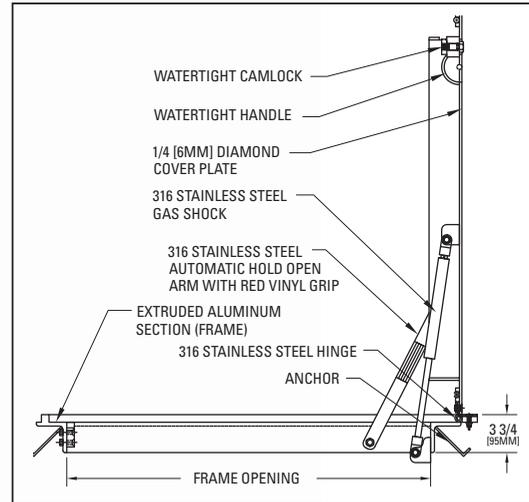
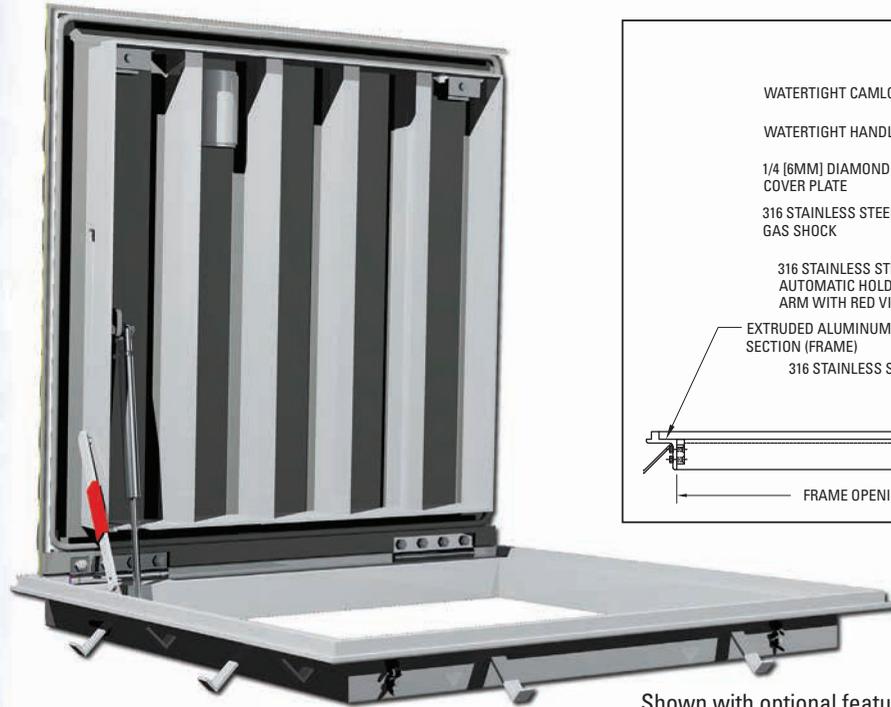


- NOTES:
- 1 - CONTACT CUSTOMER SERVICE FOR TRIPLE DOOR HATCHES
 - 2 - SAFETY GRATES CANNOT BE INSTALLED IN 4-DOOR HATCHES

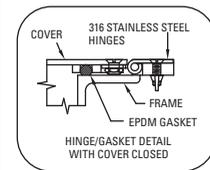


W-APS/W-APD

Watertight Angle Frame Pedestrian Loading Single Leaf or Double Leaf



Shown with optional features



General Description

The Flood Resistant, sealed, gasketed and **flush mounted** floor access door is designed for applications where flooding may occur or in applications where odors and gases may need to be suppressed.

Standard Features/Specifications

- Material:** Aluminum, steel, or stainless steel available
- Frame:** Flush mount angle type with strap anchors
- Removable Center Beam:** Gasketed, flood resistant (Double leaf design only)
- Covers:** 1/4" diamond plate reinforced for 1560 PSF live loads (capable of holding up to 25ft. head of water)
- Gasket:** EPDM gasket around entire cover perimeter
- Hardware:** All 316 SS Hinges, nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock Device:** SS flood resistant camlocks
- Lift Handle:** Flush and flood resistant
- Warranty:** Ten (10) years on aluminum, Five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

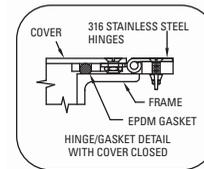
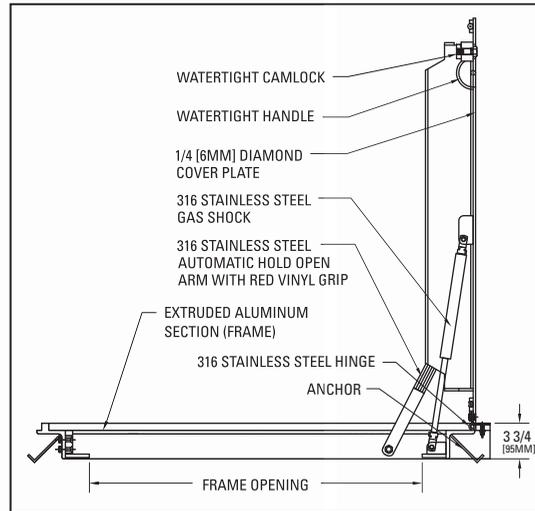
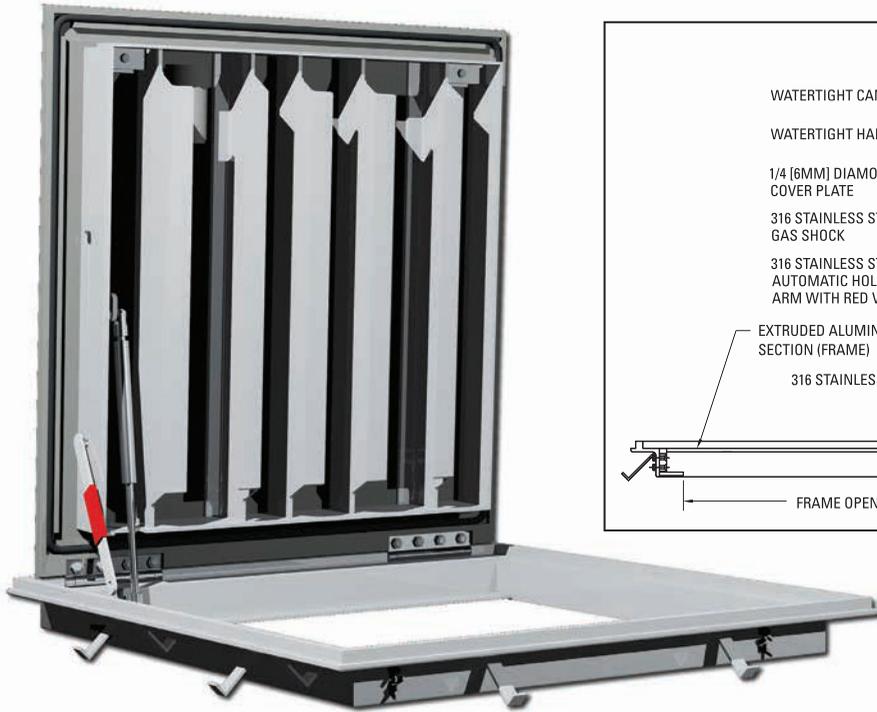


Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



W-AHS/W-AHD

Watertight Angle Frame H20 Loading Single Leaf or Double Leaf



WATERTIGHT/FLOOD RESISTANT

General Description

The Flood Resistant, sealed, gasketed and **flush mounted** floor access door is designed for applications where flooding may occur or in applications where odors and gases may need to be suppressed. **Designed for off-locations that may occasionally receive AASHTO H20 wheel loads. Not designed for parking lots or other paved areas.**

Standard Features/Specifications

- Material:** Aluminum, steel, or stainless steel available
- Frame:** Flush mount angle type with strap anchors
- Removable Center Beam:** Gasketed, flood resistant (Double leaf design only)
- Covers:** 1/4" diamond plate reinforced for AASHTO H20 wheel loads. (capable of holding up to 25ft. head of water)
- Gasket:** EPDM gasket around entire cover perimeter
- Hardware:** All 316 SS Hinges, nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock Device:** SS flood resistant camlocks
- Lift Handle:** Flush and flood resistant
- Warranty:** Ten (10) years on aluminum, Five (5) years on steel and stainless steel

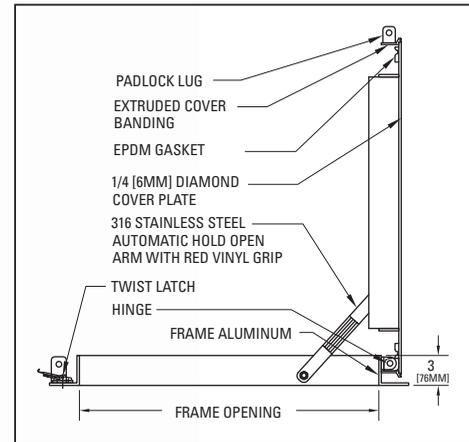
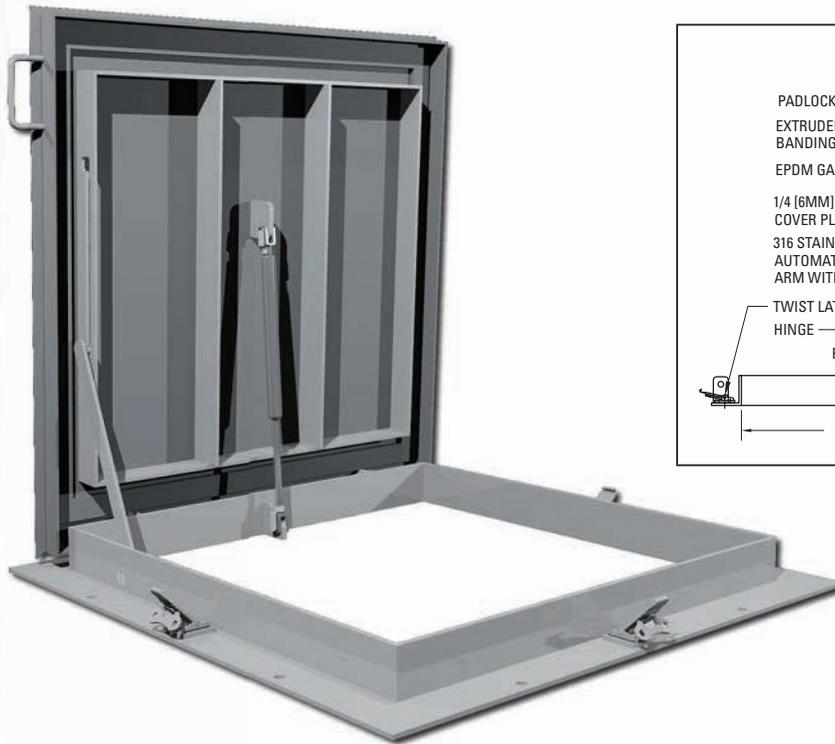
SEE AVAILABLE OPTIONS TAB



Light Vehicular / Occasional Truck Traffic

ASTM C1802-14 Load Level 3 & 4



FPS**Flood Resistant Pedestrian Loading Single Leaf****General Description**

The flood resistant access hatch is designed for interior or exterior applications where water may rise above the surface opening. It is ideal for retrofit & potable water applications.

Standard Features/Specifications

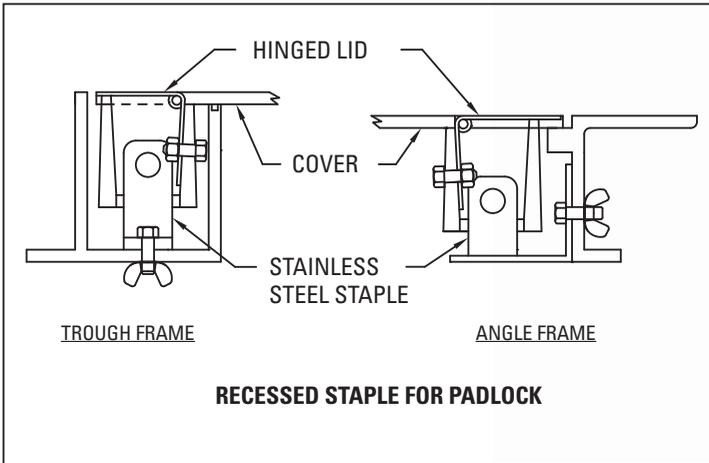
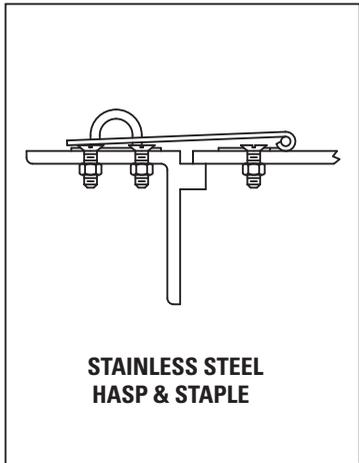
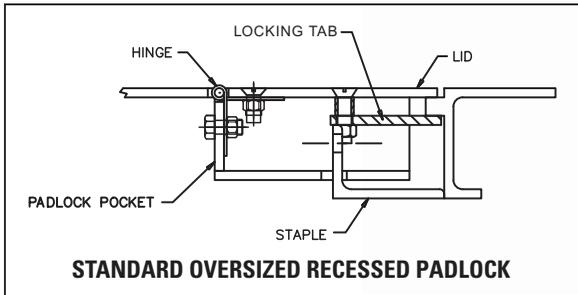
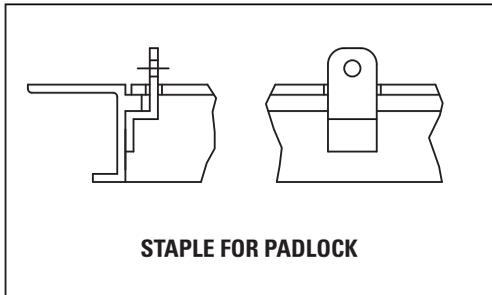
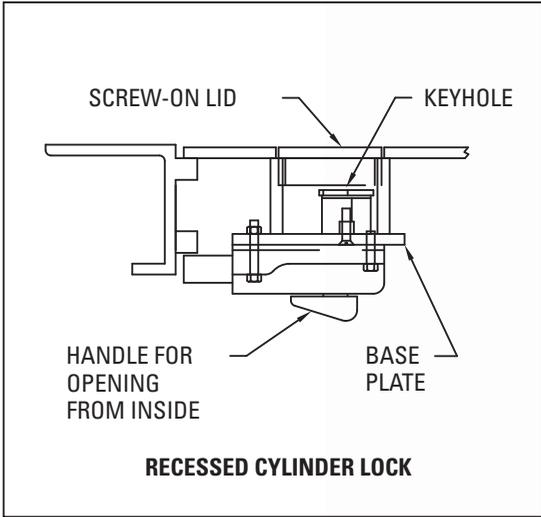
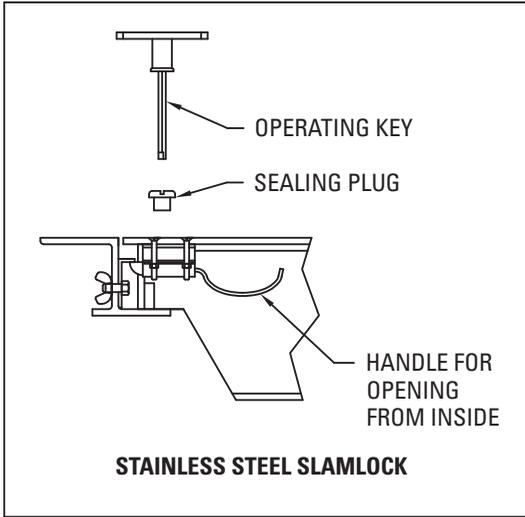
- Material:** Aluminum
- Frame:** Aluminum angle designed to be bolted down over floor opening
- Covers:** 1/4" aluminum diamond plate with urethane gasket and reinforced for 625 PSF pedestrian loads (capable of holding up to 10 FT head of water)
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lock Device:** Stainless steel pressure locks and staple for padlock
- Lift Handle:** Aluminum lift handle welded to the cover
- Warranty:** Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB



Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

Available Options: Locking/Latching



USF FABRICATION CAN PROVIDE OTHER SPECIFIED LOCKING AND LATCHING DEVICES

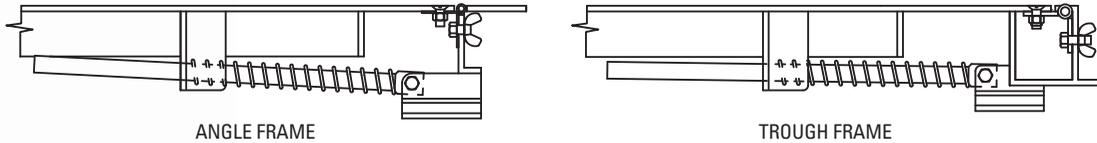


Available Options: Lift Assist

USF Fabrication's lift assist systems are computer designed to deliver the optimum lift assist for each door. Our standard stainless steel open spring design allows for quick continual inspection and easy maintenance. We also offer gas shocks as an option if required. **USF Fabrication can design lift assist to meet your specific requirements.**

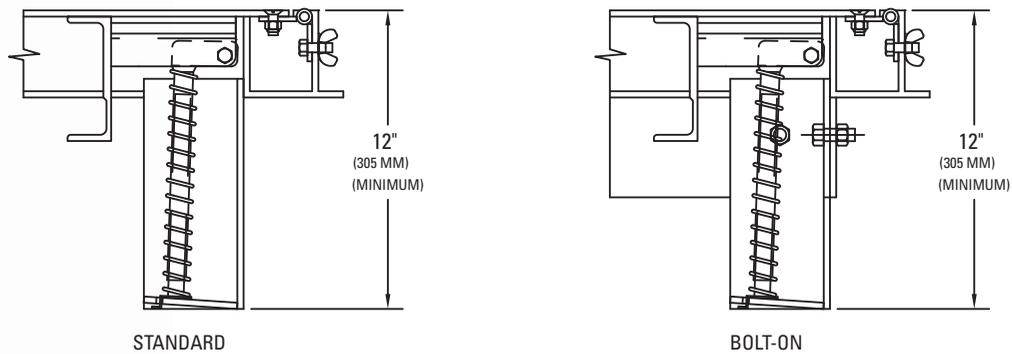
OPEN HORIZONTAL SPRINGS

The horizontal arrangement is the standard design for pedestrian hatches and heavy duty single door hatches. They eliminate the casting problems caused by the spring assembly hanging below the slab.



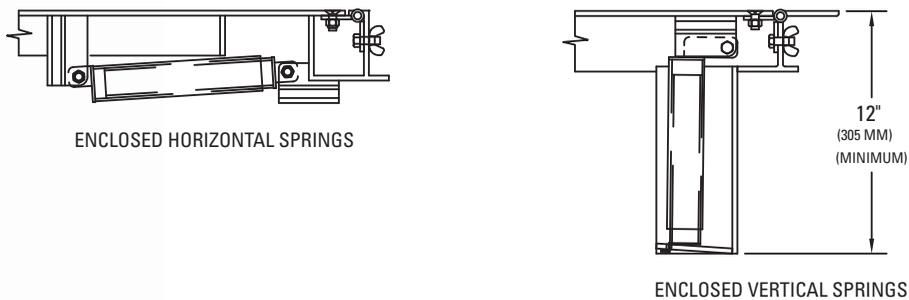
OPEN VERTICAL SPRINGS

The vertical arrangement of springs is standard for heavy duty double door hatches, and can be used on our other hatch designs. Vertical springs can be either welded or bolted to the door's frame. Bolt-on vertical springs can be removed to facilitate casting the door into concrete where the springs' housings extend below the top-slab. The springs are bolted back in place after the concrete has cured. (Bolt-on springs have proven to be both a labor and material cost saver to precasters)

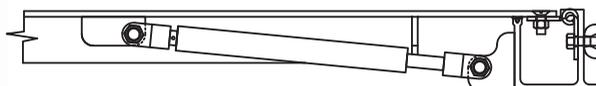


ENCLOSED SPRINGS

We can supply stainless steel enclosures on horizontal and vertical springs if you wish to enclose the springs.



SS GAS SHOCKS

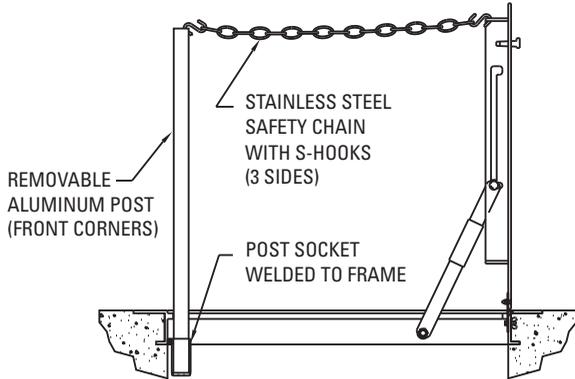


Available Options: Miscellaneous

SAFETY CHAINS

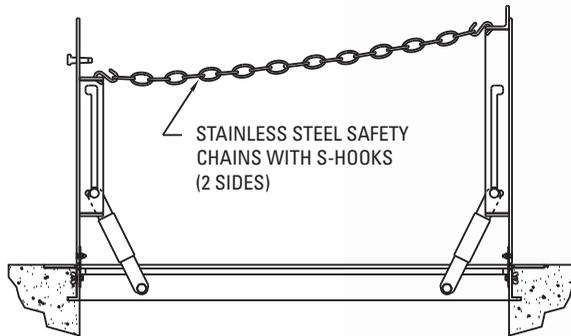
SINGLE DOOR

A safety barrier can be provided on three accessible sides of the hatch when the door is in the open position.



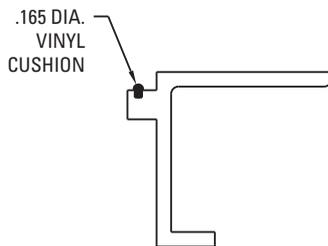
DOUBLE DOOR

A safety barrier can be provided on two accessible sides of the hatch when the doors are in the open position.



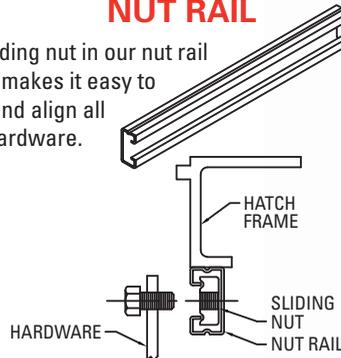
CUSHION

Our extruded aluminum angle frame can be fitted with a cushion for noise dampening.



NUT RAIL

The sliding nut in our nut rail option makes it easy to hang and align all your hardware.



Insulation:

Insulating material can be installed under the door's cover plate

Bituminous Paint:

A bituminous coating can be applied to areas of the aluminum frame that come in contact with concrete

Anodized Finish:

All aluminum parts of the hatch can be anodized as specified

Slip Resistant Surface Bonded to Cover Plate:

Our hatches can be manufactured using a slip resistant plate which has a minimum of .6 coefficient of friction, to meet ADA requirements

Frame Skirts:

Makes the overall height of the frame the same as top slab, eliminating inside forming and stripping

Custom Lettering:

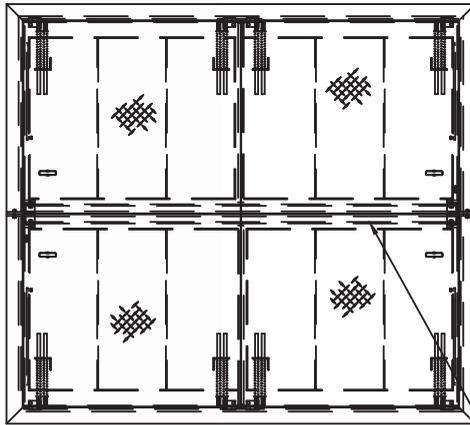
We can label your access door using a variety of methods, including bead welded letters (steel only), milled lettering and attachable name plates



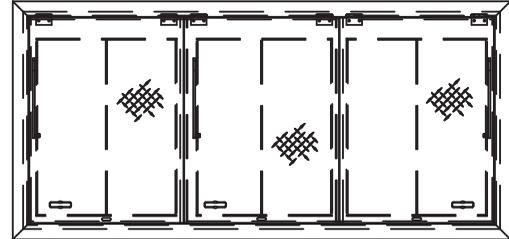
Hinge Configurations

MULTIPLE LEAF FLOOR ACCESS DOORS

For situations that require special door configurations, USF Fabrication has a custom design for you. Our multiple leaf floor access doors are available in aluminum, steel and stainless steel, and can be designed to support most load requirements. All of our standard hatch options are also available.



FOUR DOOR HATCHES



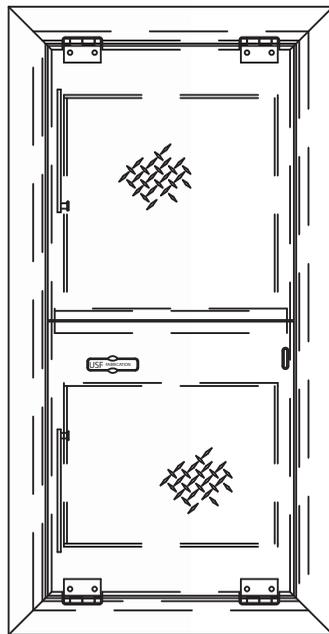
TRIPLE DOOR HATCHES

HATCH IS SHIPPED IN 2 SECTIONS AND BOLTED TOGETHER IN THE FIELD WHEN BOTH LENGTH AND WIDTH EXCEED 88".

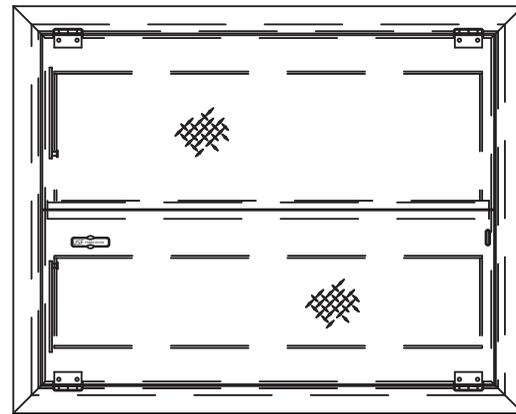
REMOVABLE CENTER BEAMS

DOUBLE DOOR HINGE CONFIGURATIONS

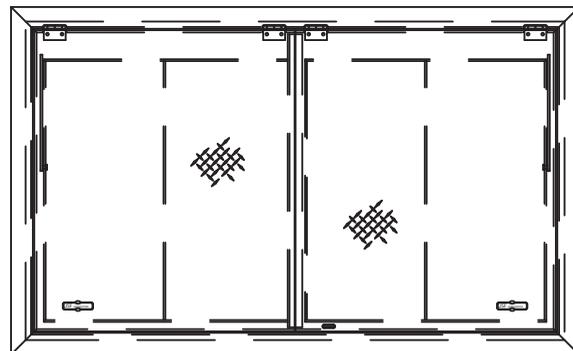
USF Fabrication gives you a choice of how you want your doors hinged.



DOUBLE DOOR HINGED ON SHORT SIDE



DOUBLE DOOR HINGED ON LONG SIDE



DOUBLE DOOR HINGED ON THE SAME SIDE



Introduction to Utility Doors



Utility Doors

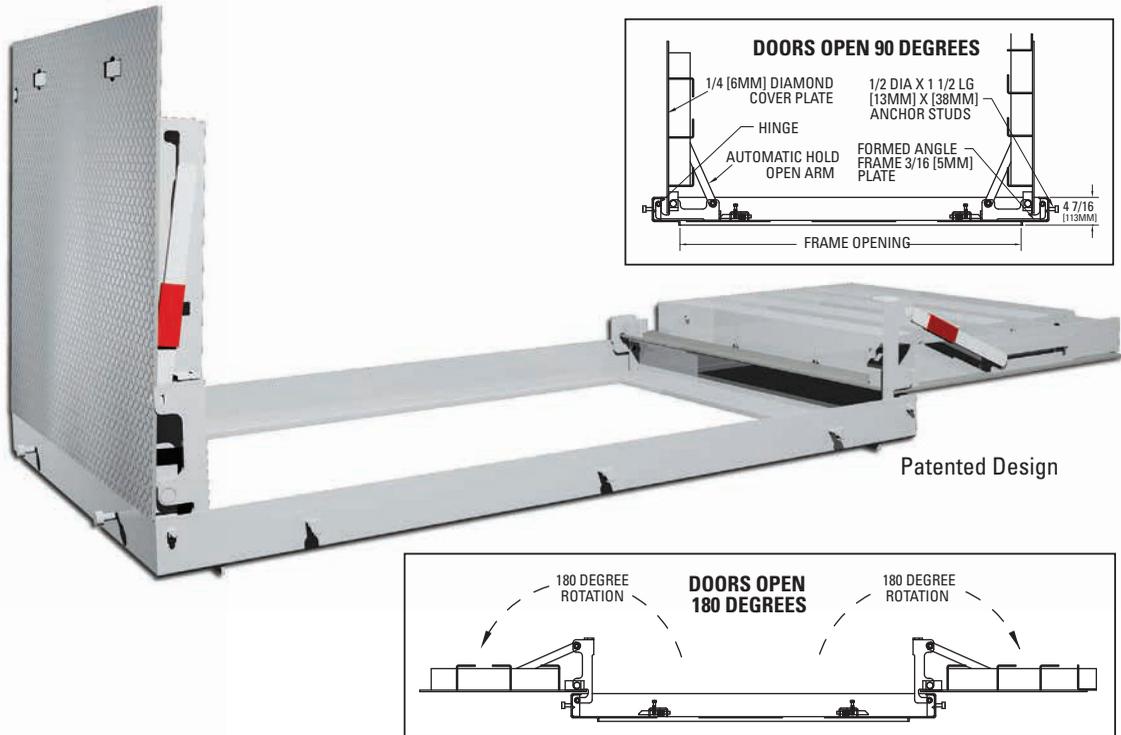
USF Fabrication manufactures the most complete line of engineered metal doors for underground utility access: Electrical, Gas, Telecom, Fiber Optics, CCTV and Waste.

Our team has developed products that exceed current industry standards for safety, security and ease of use. All of our utility doors are built specifically for these types of applications and many of our hinged doors are manufactured so that no more than 35 LBS of lift is required to open any single door leaf. They are available with features like 180° opening, tamper resistant penta-head bolts, slip resistant cover surface, special locking devices, lift assist and an **industry best five (5) year warranty**. All of our utility doors feature all steel galvanized, aluminum and stainless steel construction to insure ease of use and long service life.

USF Fabrication utility doors are specified by public and private utilities throughout the United States and are a great alternative to drag-off style frame and covers or torsion assisted covers.



UEZS/UEZD



Patented Design

General Description

The UEZS/UEZD door is the simplest, safest and most secure solution for accessing underground utilities. Designed to open to 90° and 180° without the use of tools or removal of hardware. The aluminum door design is one third the weight of comparable steel doors and most standard designs can be opened using less than 35 lbs of lift.

Standard Features/Specifications

- Material:** Aluminum and steel galvanized
- Frame:** 3/16" thick steel galvanized
- Covers:** 1/4" diamond plate aluminum or steel galvanized reinforced for incidental H2O wheel loads
- Hold-Open Device:** Galvanized steel one piece hold open arm at 90° and special patented latch release for opening to 180°
- Lock Device:** 316 SS Slamlock with special 1/4 turn tamper resistant penta head release
- Lift Handle:** Two lift handles flush with top of cover
- Warranty:** Five (5) year

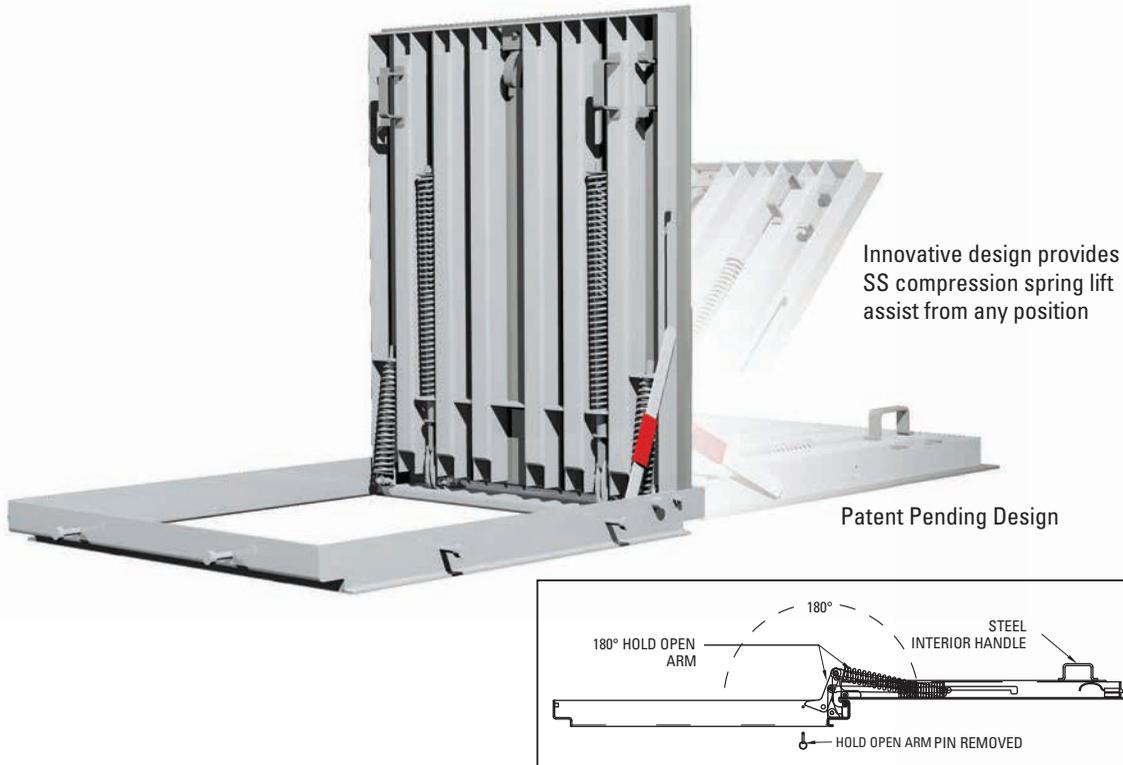


Light Vehicular / Occasional Truck Traffic

ASTM C1802-14 Load Level 3 & 4



UEZ-180



General Description

The UEZ-180 is an innovative alternative to heavy steel hatches that rely on ineffective torsion type lift assist. Designed with stainless steel compression spring lift assist, this unique product requires no more than 35 LBS of lift to open from its closed position to the 90° open position, and from the fully opened 180° position back to the 90° open position.

Standard Features/Specifications

- Material:** Steel galvanized or stainless steel
- Frame:** Angle type
- Covers:** Diamond plate reinforced for incidental H2O wheel loads
- Hold-Open Device:** One piece Hold-open arm with removable pin to release door full 180° open position
- Lift Assist:** Stainless steel compression springs for lift assist from closed position to 90° open position and from the fully opened 180° position back to 90°
- Lock Device:** 316 SS Slamlock with special 1/4 turn tamper resistant penta head release
- Lift Handle:** Two lift handles flush with top of cover
- Warranty:** Five (5) year



Light Vehicular / Occasional Truck Traffic
ASTM C1802-14 Load Level 3 & 4



FC-U



General Description

The FC-U utility frame and cover is non-hinged, versatile product. It is available in multiple cover leaf configurations and can be a simple solution in applications where size of opening and/or cover weight may prevent the use of standard hinged hatches.

Standard Features/Specifications

Material:	Steel galvanized or stainless steel
Frame:	Angle type
Covers:	Steel galvanized, stainless steel or aluminum
Lift Handle:	Lift Handles flush with top of cover or lifting eyes
Warranty:	Five (5) years



Light Vehicular / Occasional Truck Traffic
ASTM C1802-14 Load Level 3 & 4

Introduction to Special Application Doors



Special Application Doors

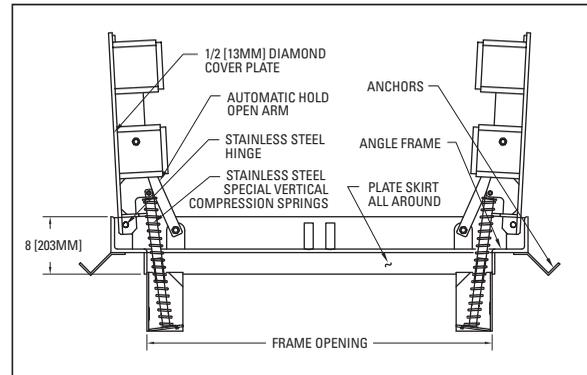
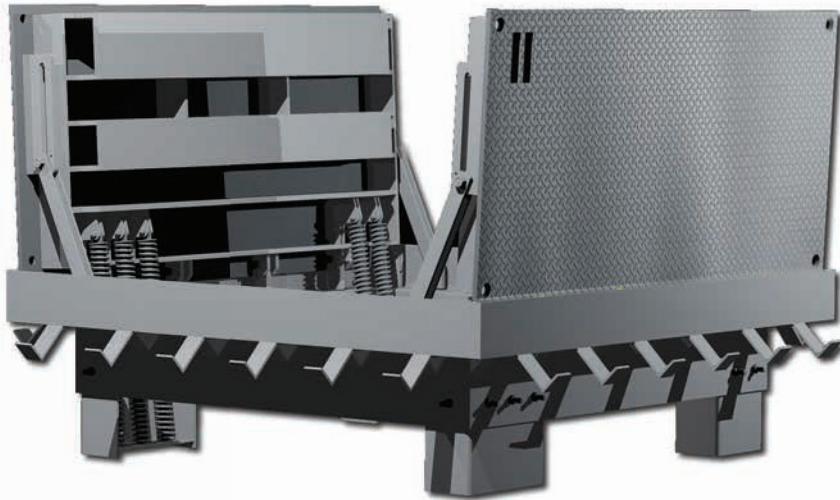
USF Fabrication manufactures a wide variety of doors for special applications. Our fully staffed Engineering Department utilizes the latest technologies to design floor access hatches to meet virtually any specification or application. Our manufacturing facilities located in South Florida and Utah have the latest equipment to enable our experienced and highly skilled fabricators to build floor access hatches for almost any type of application. From EED doors for subway emergency egress, to special doors with hinged grating, to aircraft rated doors and special roof access doors, USF Fabrication offers the most extensive line of products available. Next time you have an application that requires a door that other manufacturers *cannot, or will not make*, call USF Fabrication and let us fabricate a solution for you.

SPECIAL APPLICATIONS



ALH

Aircraft Load Hatch



General Description

The aircraft load floor access door is designed for areas that receive loads up to 280 PSI over the entire surface of the cover and where watertightness is not required. It is designed for taxi ways and airside at airports (not runways), marine ports and other areas of extremely heavy and severe loading conditions.

Standard Features/ Specifications

- Material:** Steel, galvanized or stainless steel available
- Frame:** Angle type with strap anchors
- Covers:** Diamond plate reinforced for 280 PSI loading
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** One piece Hold-open arm with removable pin.
- Lock Device:** Cover(s) shall be bolted to the frame with 316SS bolts
- Lift Assist:** Stainless steel springs
- Lift Handle:** Steel lift handle lays flush with top of cover
- Warranty:** Five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB

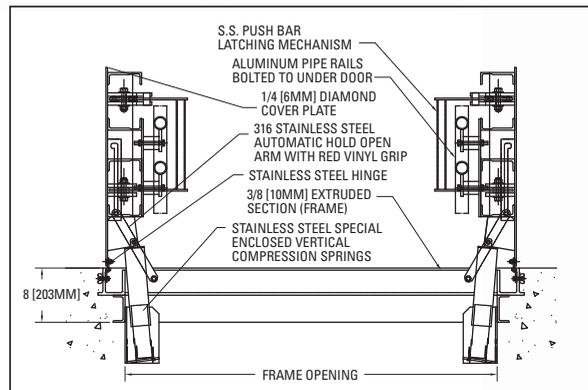


Occasional Aircraft / Aircraft
ASTM C1802-14 Load Level 8 & 9



EED

Emergency Egress Door



General Description

Flush installation in new cast-in-concrete applications, provides passengers and crew with an auxiliary exit to the street level in emergency situations. These doors are designed for emergency egress from rapid transit systems, tunnels or other underground areas in emergency situations.

Standard Features/Specifications

- Material:** Aluminum, steel or stainless steel available
- Frame:** 1/4" material with integral anchoring systems
- Covers:** 1/4" diamond plate reinforced for pedestrian or occasional H2O
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm
- Lock Device:** Special stainless steel slamlocks with panic hardware
- Lift Assit:** Enclosed springs
- Lift Handle:** Cast aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years on aluminum, five (5) years on steel and stainless steel

SEE AVAILABLE OPTIONS TAB



Light Vehicular / Occasional Truck Traffic
ASTM C1802-14 Load Level 3 & 4



Introduction to Architectural Doors



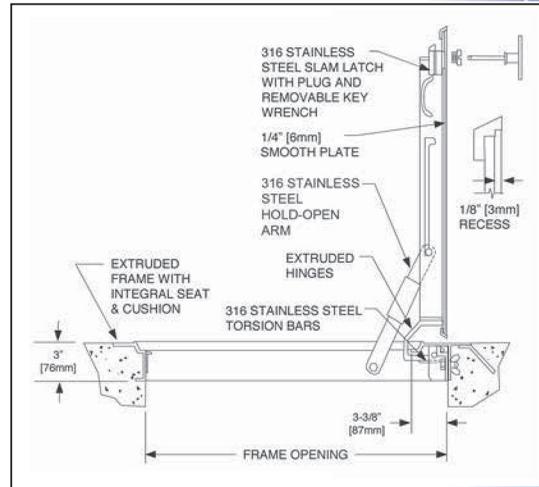
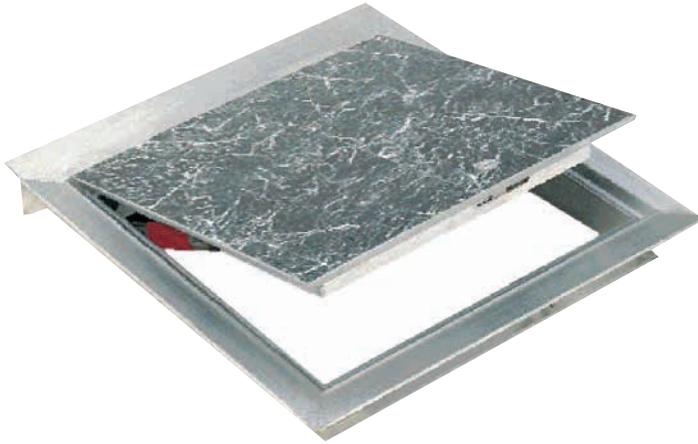
Architectural Doors

USF Fabrication manufactures a wide range of metal floor doors suitable for use in architectural applications. These doors can be specified for use inside or outside buildings where aesthetics are important. We offer **two hour fire rated** doors, doors that are recessed to receive flooring material and doors for roof access. USF Fabrication architectural floor doors are available in standard and custom sizes with a variety of optional features available to meet your specific job requirements.



R-APS/APD

Recessed Angle Frame Pedestrian Loading Single or Double Leaf



ARCHITECTURAL

General Description

The R-APS/APD Series doors have a 1/8" recess in the cover to receive carpet or tile. These doors can be used to preserve the architectural appeal of floors and sidewalks in outdoor and indoor applications.

Standard Features/Specifications

- Material:** Aluminum
- Frame:** Extruded aluminum angle
- Covers:** 1/4" smooth plate with 1/8" recess, reinforced for 150 PSF live load
- Hardware:** All 316 SS nuts, bolts, washers and latches
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lift Assist:** Torsion bar
- Lock Device:** 316 SS Slamlock with threaded plug, removable outside key and fixed inside handle
- Lift Handle:** Removable T-handle
- Warranty:** Ten (10) years

SEE AVAILABLE OPTIONS TAB

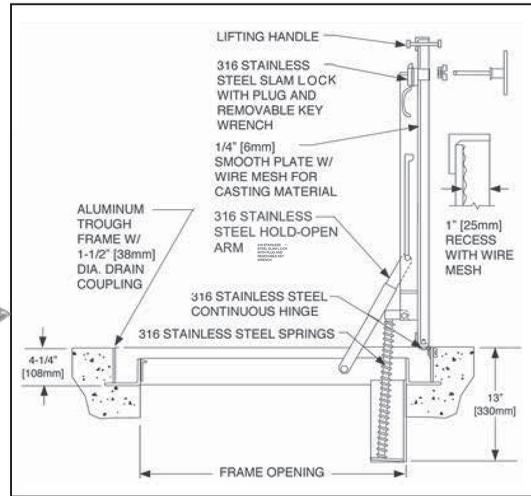


Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



R-TPS/TPD

Recessed Trough Frame Pedestrian Loading Single or Double Leaf



General Description

The R-TPS/TPD Series doors have a 1" recess in the cover to receive tile or concrete. These doors can be used to preserve the architectural appeal of floors and sidewalks in outdoor and indoor applications.

Standard Features/Specifications

- Material:** Aluminum
- Frame:** 1/4" aluminum trough (drainable) frame with 1-1/2" drain coupling
- Covers:** 1/4" smooth plate with 1" recess, reinforced for 300 PSF live load
- Hardware:** All 316 SS nuts, bolts and washers
- Hold-Open Device:** 316 SS Hold-open arm with **secondary latch mechanism**
- Lift Assist:** Vertical compression springs
- Lock Device:** 316 SS Slamlock with threaded plug, removable outside key and fixed inside handle
- Lift Handle:** Cast aluminum lift handle lays flush with top of cover
- Warranty:** Ten (10) years

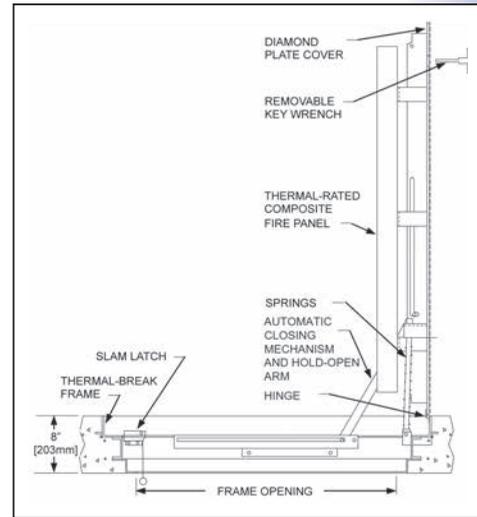
SEE AVAILABLE OPTIONS TAB



Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

FD/FD-P

Fire Rated Floor Door / Fire Rated Floor Door with Recessed Pan Cover



FIRE RATED

General Description

The FD/FD-P Series floor doors have been tested to meet NFPA 288 (ASTM E119) and are ideal for use in fire rated floors where openings are required. Available with a pan style recessed cover to accommodate a variety of flooring material.

Standard Features/Specifications

- Material:** Aluminum
- Frame:** Special aluminum and stainless steel frame
- Covers:** 1/4" diamond plate or 1/4" smooth plate with 1" recess, reinforced for 150 psf live load
- Hardware:** All 316 SS nuts, bolts, and washers
- Hold-Open Device:** 316 SS Hold-open arm with automatic closing feature
- Lift Assist:** Stainless steel compression springs
- Lock Device:** 2-point slam latch system with removable plug and inside release feature
- Lift Handle:** Flush lift handle
- Warranty:** Ten (10) years

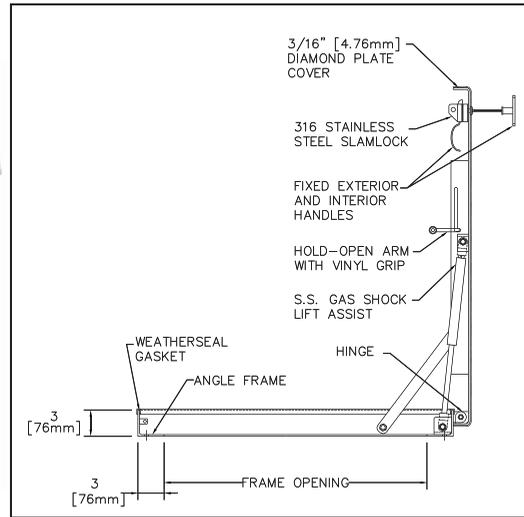


Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2



SRR-I/E

Security Reservoir or Roof Internal or External Mounting Flange



General Description

The SRR Series door provides secure, convenient and weather resistant access onto roofs and into reservoirs. It is available with either an interior or exterior mounting flange.

Standard Features/Specifications

- Material:** Aluminum
- Frame:** 3/16" aluminum angle with EPDM gasket for weather resistance
- Covers:** 3/16" diamond plate reinforced for 150 PSF live load Hardware: All 316 SS nuts, bolts, washers and latches
- Hold-Open Device:** 316 SS Hold-open arm with inside release handle
- Lift Assist:** Gas shock
- Lock Device:** 316 SS Slamlock with exterior T- handle and fixed interior release handle
- Lift Handle:** Fixed T-handle
- Warranty:** Ten (10) years on aluminum

SEE AVAILABLE OPTIONS TAB



Light Pedestrian / Pedestrian
ASTM C1802-14 Load Level 1 & 2

Introduction to Accessory Items



Accessory Items

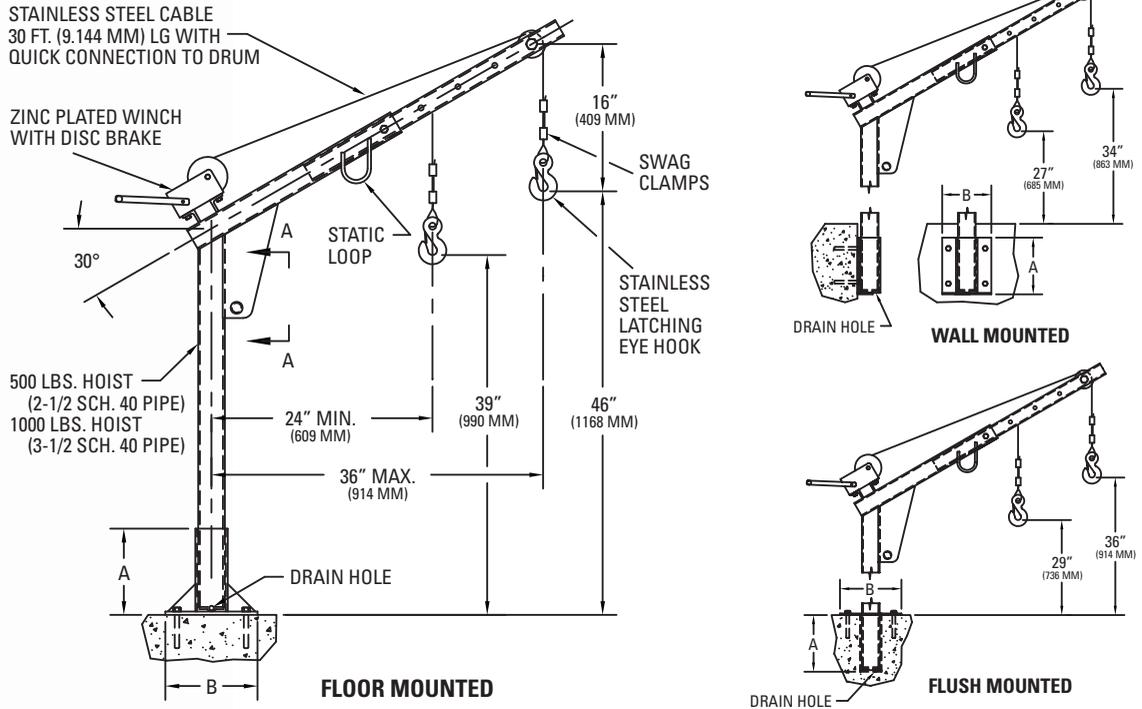
USF Fabrication provides everything you need to complete your water and wastewater projects. We manufacture pump hoists, guide rail brackets, vault ladders, cable and float holders, anchor bolts, lifting bails for pumps, debris baskets, control panel pedestals, pump stands, mast systems for submersible mixers and pump tubes for submersible column pumps. All of our accessory products are available in standard and custom sizes in a variety of metals including aluminum, steel, steel galvanized and stainless steel. USF Fabrication specializes in custom designed accessories for specific applications.



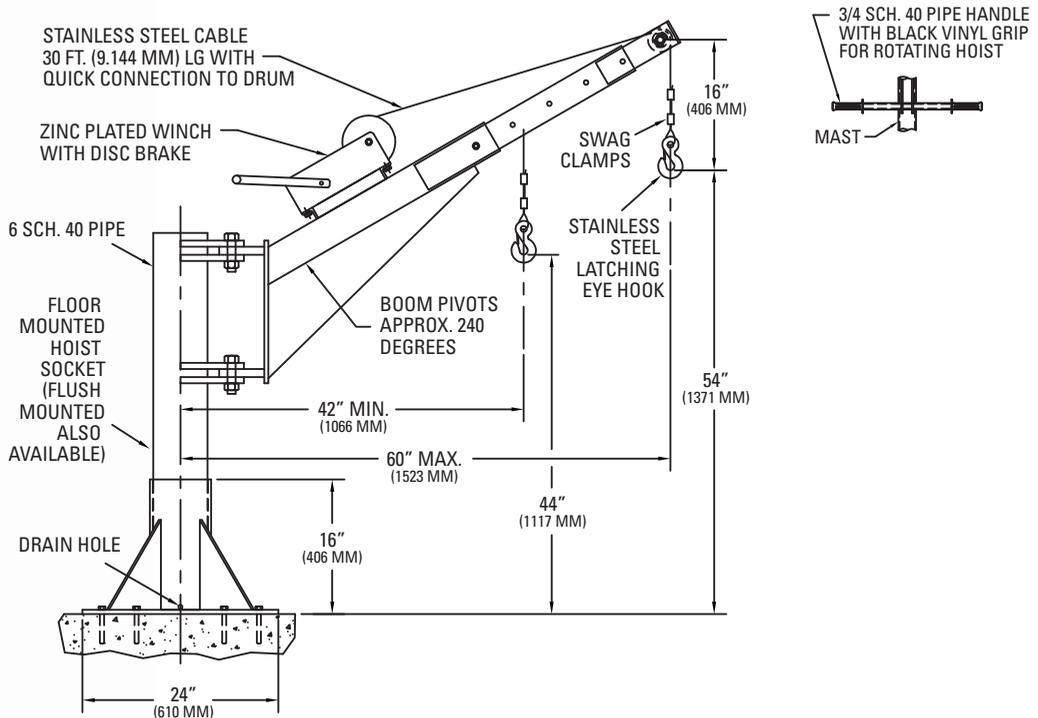
Hoists

USF Fabrication hoists are available in hot dipped galvanized steel or stainless steel. They are available in various heights with a choice of mounting options.

500 & 1000 LBS LOAD CAPACITY

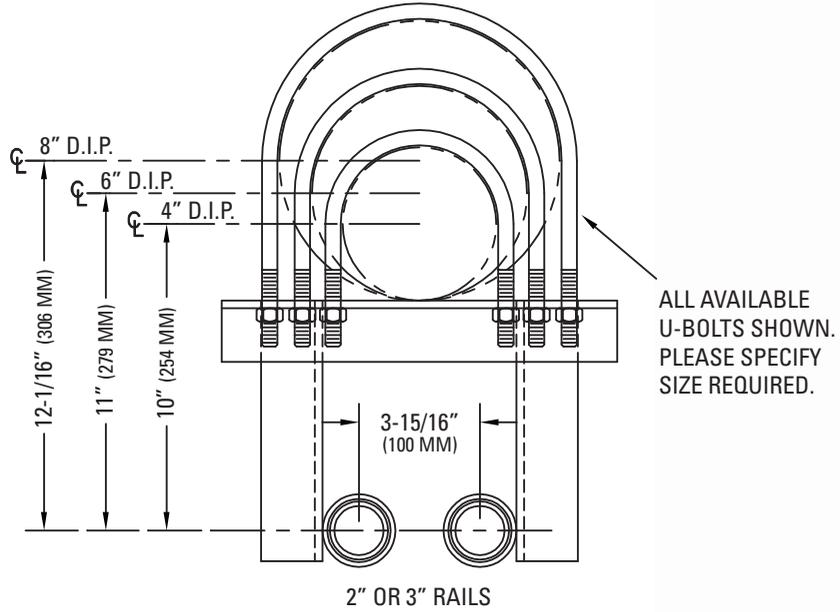


2000 LBS LOAD CAPACITY



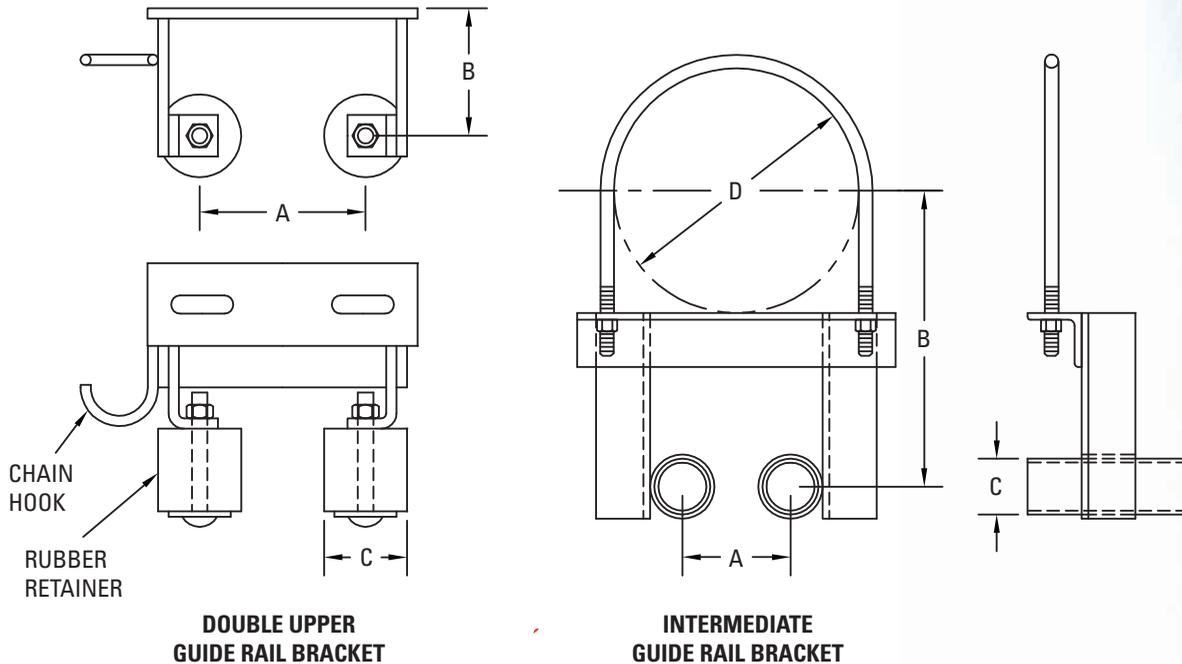
Pump Guide Rail Supports

USF Fabrication manufacturers guide rail brackets to specific dimensions to match all pump manufacturers.



UNIVERSAL INTERMEDIATE GUIDE RAIL BRACKET

Our Universal brackets are designed to fit 4", 6" or 8" ductile iron pipes. They are available in stainless steel for 2" or 3" pump guide rails.

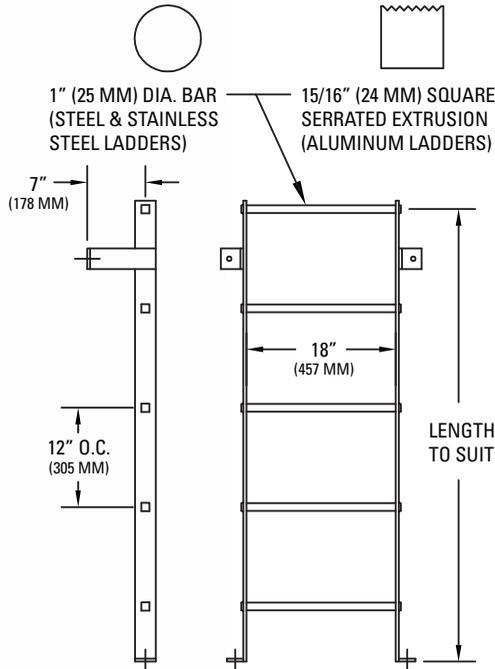


CUSTOM SIZES ARE AVAILABLE



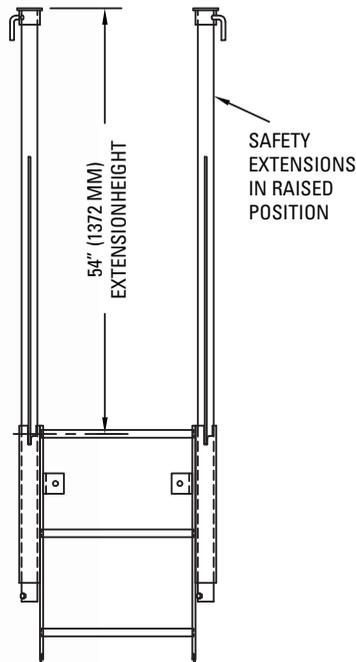
Vault Ladders

USF Fabrication vault ladders are available in aluminum, steel or stainless steel for wall or floor mounting. Custom sizes are available.



FLOOR MOUNTED LADDER

Wall mounted also available in whole foot increments.

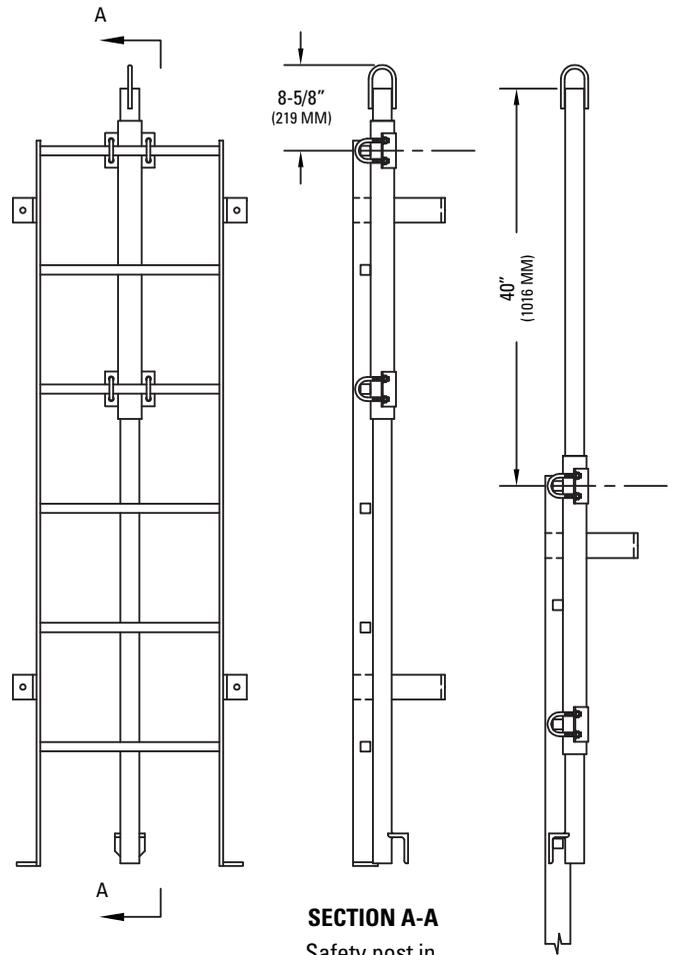


LADDER WITH SAFETY EXTENSIONS

Shortest ladder for use with safety extensions is 72" LG.



USF Fabrication makes ladders for mounting on any diameter basin. Just supply us with the diameter and desired offset.



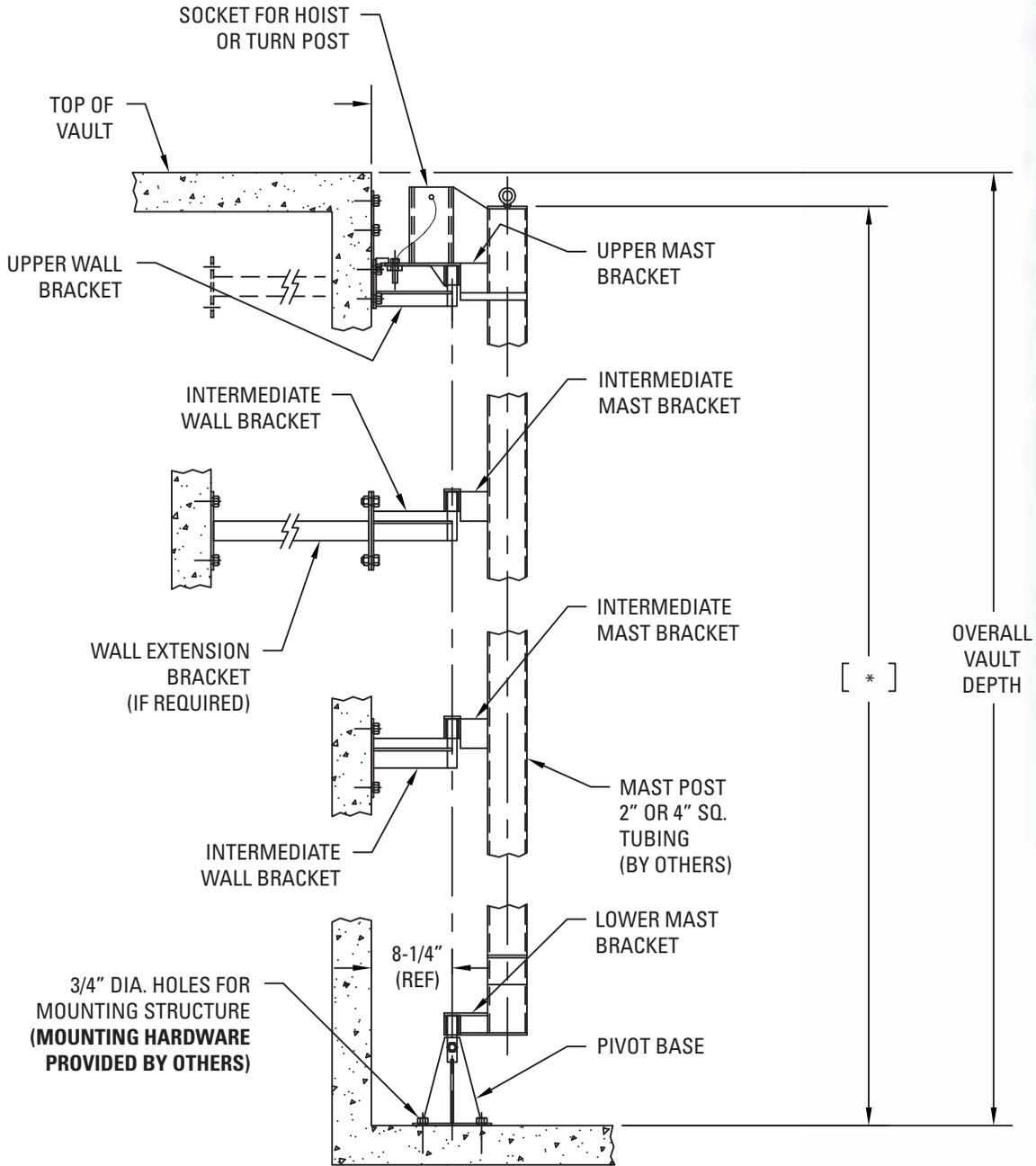
RETROFIT SAFETY POST

Shortest ladder for use with safety post is 72" LG.



Mixer Pump Mast Systems

USF Fabrication manufactures a full line of mixer mast systems in a variety of configurations for all popular pump manufacturers.

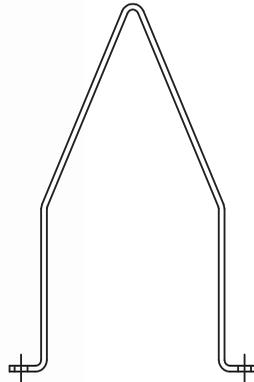


* USF FABRICATION RECOMMENDS USING ONE (1) INTERMEDIATE MAST BRACKET AND WALL BRACKET AT 10 FT. INTERVALS

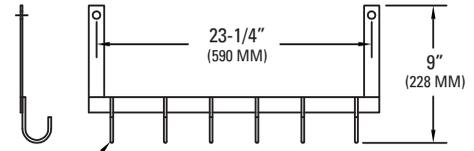


Lifting Bails/Trash Baskets/Pedestals/Anchor Bolts

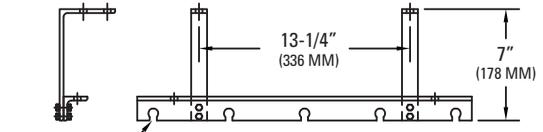
LIFTING BAILS & CABLE HOLDERS



PUMP LIFTING BAIL
(CUSTOM SIZES AVAILABLE)

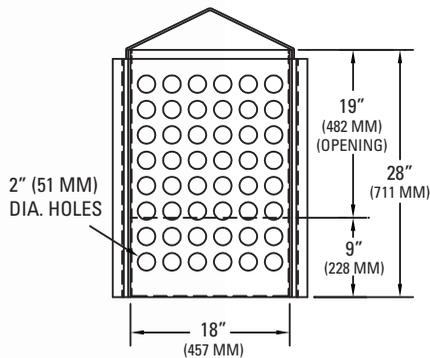
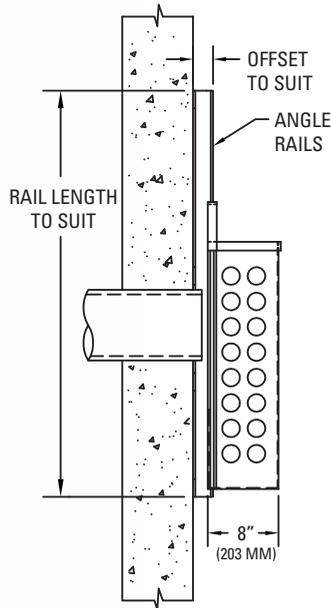


3/16" (5 MM) DIA. HOOKS
(3/8" (10 MM) DIA. FOR HEAVY DUTY HOLDER)
CABLE HOLDER
(CUSTOM SIZES AVAILABLE)



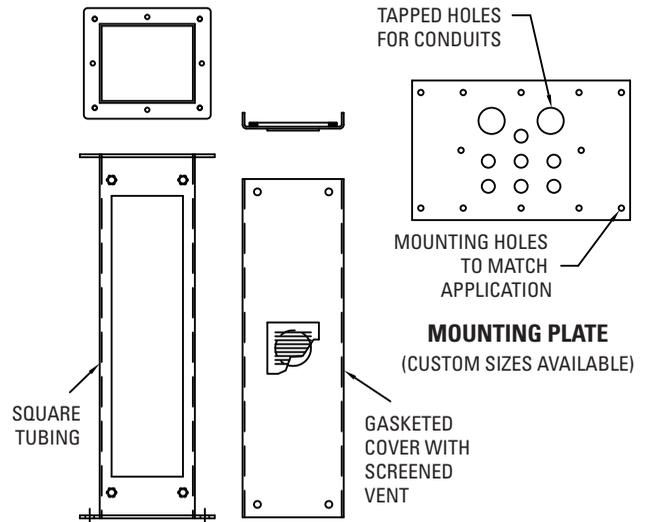
SNAP-IN SLOTS
FLOAT HOLDER
(CUSTOM SIZES AVAILABLE)

DEBRIS BASKET WITH RAILS



STANDARD SIZE
(CUSTOM SIZES AVAILABLE)

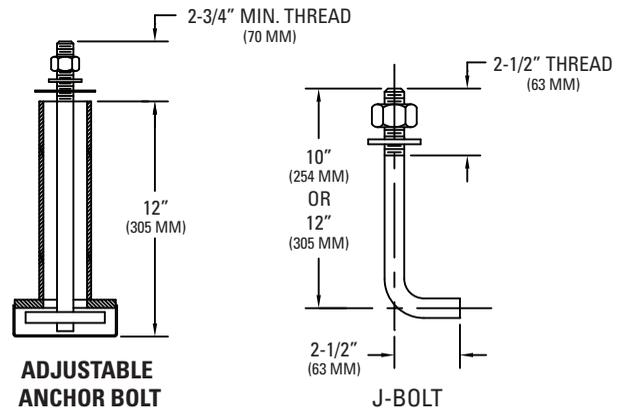
CONTROL PANEL PEDESTALS



ALUMINUM PEDESTAL
(CUSTOM SIZES AVAILABLE)

ANCHOR BOLTS

USF Fabrication uses stainless steel 316 alloy as standard material for anchoring hardware.



ADJUSTABLE ANCHOR BOLT

J-BOLT



Submersible Propeller Pump Tubes

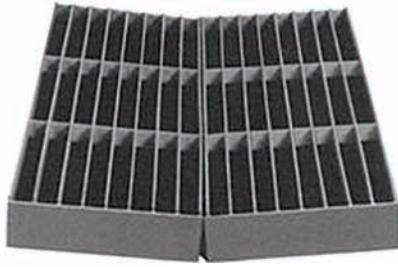


General Description

USF Fabrication has the experience, equipment and facilities to manufacture pump tubes and pump cans in a variety of configurations for all submersible propeller pump brands and specifications. Our unique capabilities allow us to build products for water, wastewater and storm water applications in a wide range of lengths and diameters. We can fabricate most materials including steel, steel galvanized and stainless steel. A variety of coating options are also available to meet your specifications.



Drainage Grating



GUTTER INLET STEEL GRATE SET

Type: Welded Bar Grate
(Approved by Florida D.O.T.)



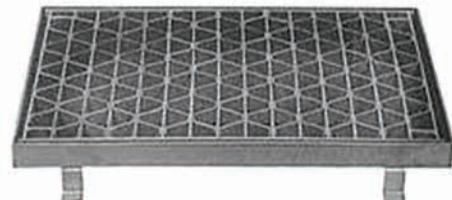
GUTTER INLET STEEL GRATE SET

Type: Reticuline Steel Grate
(Approved by Florida D.O.T.)



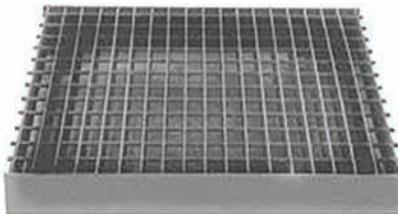
DITCH BOTTOM INLET STEEL GRATE

Type: Welded Bar Grate
(Approved by Florida D.O.T.)



CURB INLET STEEL FRAME & GRATE

Type: Reticuline Steel Grate
(Approved by Louisiana D.O.T.)



BARRIER WALL INLET GRATE

Type: Welded Bar Grate
(Approved by Florida D.O.T.)



BARRIER WALL INLET FRAME & GRATE

Type: Welded Bar Grate
(Approved by Georgia D.O.T.)

General Description

USF Fabrication manufactures a wide range of metal grating for pedestrian, H-20 traffic and airport (280 PSI) loading requirements. We manufacture welded bar grates, riveted reticuline grates and special grates for roadway applications. Our metal grating is approved for use by a growing list of Departments of Transportations, including Florida, Georgia, Alabama, Louisiana, North Carolina, New York and Oklahoma. For more information on your local DOT products, please provide details on your project specifications via e-mail, www.usffab.com, or speak to our customer service team by calling 1-800-258-6873.

Grates can be provided with steel angle frames that are galvanized or painted to your specifications. Facilities for bolting can be added where applications require grates to be secured. Grates can be fabricated to your dimensional and load bearing specifications.



Miscellaneous Fabrication/Rolling



General Description

USF Fabrication provides solutions for all of your miscellaneous metal fabrication needs. We can form, roll or bend a full spectrum of structural metals, in a wide range of thicknesses and widths to the specified diameter or shape. Whether you require rings, cylinders, cones, transitions, spirals or just straight bends, we have the expertise, equipment and engineering to meet your specific needs.

USF Fabrication is a full service metal fabrication company with two manufacturing facilities that feature technologically advanced CNC equipment and a dedicated workforce. This, combined with our commitment to LEAN manufacturing and employee training, makes us one of the largest and most capable miscellaneous metal fabrication facilities in the United States. Our highly skilled craftsmen fabricate the highest quality custom products to exacting tolerances. We work with most types of metal including aluminum, steel and stainless steel and offer a wide range of coating and finishing options, including anodizing, powder coating and hot dipped galvanized finishes.

Rolling Capabilities

Channels:	Rolled flange-in, flange-out or hard way
Flat Bars:	Rolled easy-way and hard-way
I-beams:	Rolled easy-way and hard-way
Tees:	Rolled stem-in, stem-out and stem-up
Angles:	Rolled leg-in and leg-out
Cones:	Eccentric and concentric
Plate:	Rolling and bending
Tube & Pipe:	Rolling and bending

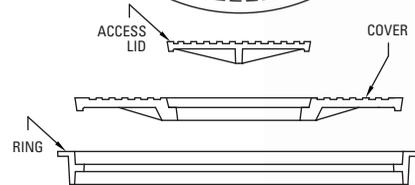
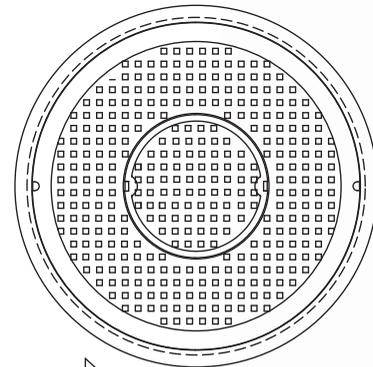


Cast Iron

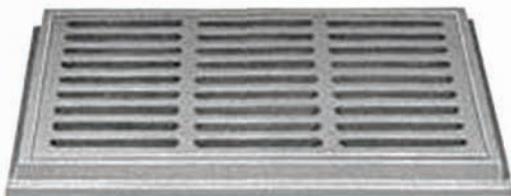
USF Fabrication offers a complete line of cast iron products manufactured by our sister company US Foundry. Please visit their website at www.usfoundry.com for a complete selection of cast iron products.



MANHOLE RING AND COVERS



ROUND GRATES



DRAINAGE GRATES



DRAINAGE GRATES



HINGED ACCESS HATCH

