

AVAILABLE OPTIONS	DESCRIPTION	APPLICATION
ANGLE FRAME	Extruded aluminum with integral 1" anchor flange.	Interior or exterior areas where dirt and/or water intrusion are NOT a concern.
TROUGH FRAME (Channel)	Extruded aluminum channel with 1 1/2" drain coupling and integral 1" anchor flange.	Interior or exterior areas where dirt and/or water intrusion ARE a concern.
SLAMLOCK (Snaplock)	Stainless steel spring loaded locking device , waterproof with inside handle and outside removable handle.	Recommended when spring assist. mechanisms are used, also when an automatic locking device is required.
RECESSED PADLOCK	Recessed staple in cast aluminum box with Stainless steel hinged cover that does not protrude above cover surface.	Used in high pedestrian areas to reduce tripping hazard. Reduces theft by restricting access to padlock by bolt cutters.
HASP & STAPLE	Stainless Steel hinged hasp and staple bolted to frame and cover.	Locking device mounted on top of frame and cover in non pedestrian areas.
VERTICAL COMPRESSION SPRINGS	Stainless Steel spring secured to frame and cover.	Mounted vertical in corners of hinged side. Reduces force required to open door and retards downward motion when closing.
HORIZONTAL COMPRESSION SPRINGS	Stainless Steel spring secured to frame and cover.	Mounted horizontal to reduce force required to open cover and to retard downward motion when closing. Allows use of minimum 5" slab thickness and eliminates vertical spring boot from protruding into clear opening.
ENCLOSED COMPRESSION SPRINGS (Horizontal or Vertical)	Stainless Steel spring with St. Steel telescoping tube secured to frame and cover.	Same application as open springs, used when aesthetics are important. Restricts visual inspection of springs.
TORSION BARS	Stainless steel lifting assist. mechanism.	Recommended on light duty pedestrian covers where boots used for compression springs cannot be used.
SAFETY CHAINS	3/16" Diameter Stainless steel welded loop chain.	Used as a safety precaution to identify when an access cover is in the open position.
ODOR REDUCTION GASKET	Specially extruded neoprene gasket riveted to frame.	Reduces amount of escaping odors without the expense of bolting.
CUSHION	Round extruded rubber gasket in groove on aluminum extruded frame.	Recommended when noise dampening between frame and cover is desired.
FRAME SKIRT	Aluminum or steel plate welded to all 4 sides of frame.	Eliminates costly forming and ensures that concrete is correctly poured to support complete frame. Custom manufactured to match slab thickness.
BITUMINOUS PAINT	Black bituminous coating.	Applied to all surfaces of aluminum access doors that come in contact with concrete. Protects aluminum from corrosive elements in concrete.
UNISTRUT (Nutrail)	Aluminum extrusion or Stainless Steel channel with Stainless Steel sliding lock nuts.	Welded to bottom of frame to provide adjustable mounting for access door accessories (I.E. float holders, guide brackets, cable holders).
BOLTING	Stainless Steel bolts with nuts tack welded to the frame.	Required on steel access doors for direct traffic applications. Also used on access doors for floodtight and gastight applications.
GASKETING	Flat neoprene material.	Required for floodtight and gastight applications. See: Bolting above.
GALVANIZING	Hot dipped ASTM. A123. steel only.	Increases corrosion resistance of steel access frames and covers. Used in areas of high atmospheric corrosion or saltwater.
HOLD OPEN ARM	Stainless steel arm with red vinyl grip.	A positive hold open device provided on all doors to automatically lock doors in the 90° open position

PLEASE REFER TO THE U.S.F. FABRICATION, INC. ENGINEERING CATALOG FOR COMPLETE PRODUCT SPECIFICATIONS.