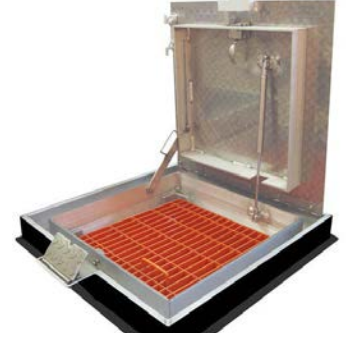


# Access Hatches







# Access Hatches

**CORIX Water Products offers access hatches to suit your project requirements and specifications. Available in aluminum, 304 and 316 stainless steels, in standard or custom sizes, and with variety of features, our hatches are designed to provide simple, safe, and secure access to underground structures.**

Applications include:

- pump stations
- water and wastewater treatment plants
- water meter pits
- cross connection control vaults
- parking lots
- storm drains
- maintenance holes
- gas and water valve vaults
- monitoring wells
- reservoir inspection
- lift stations
- basin covers
- fall through protection
- vault platforms

## ALUMINUM DESIGN OPTIONS

<b>FRAME</b>	Flush Angle Frame	
	Flush Drainage Frame	

<b>LOADING</b>	Light Pedestrian	150 psf 7.2 kPa
	Heavy Pedestrian	300 psf 14.4 kPa
	AASHTO H-20	16,000 lb wheel load over a 10" x 24" area
	CSA S6	Canadian Highway Bridge Design Code
	CL-625	62.5 kN wheel load over a 250 x 610mm area off-highway
	CL-800	80 kN wheel load over a 250 x 610mm area
	CL-625-ONT	70 kN wheel load over a 250 x 610mm area
	CL-800-ONT	89.6 kN wheel load over a 250 x 610mm area

Our hatch doors are designed to meet your loading and odor control requirements:

### Type C - Light Duty Pedestrian Rated

- Hatch has been designed to withstand a live load of 150 lbs/per square foot (7.2 kPa)
- Deflection shall not exceed 1/180<sup>th</sup> of the span
- Built to OSHA standard 1910.23

### Type M - Heavy Duty Pedestrian Rated

- Hatch has been designed to withstand a 300 lbs/per square foot (14.4 kPa)
- Deflection shall not exceed 1/180<sup>th</sup> of the span
- Built to OSHA standard 1910.23

### Type MH20 - AASHTO H-20

- Hatch has been designed to support ASSHTO H-20 wheel load
- Deflection shall not exceed 1/180<sup>th</sup> of the span
- Built to OSHA standard 1910.23

### Type M CL-625

- Hatch has been designed with a CL-625-ONT wheel load per clause 3.8.4.3(a) of CAN/CSA-S6-06 and includes an impact factor of 15% for an off-highway location
- Meets old H-20-16 loading

### Type M CL-800

- Hatch has been designed for an emergency loading by a CL-800 #2 axle wheel load with an impact factor of 40% per CAN/CSA-S6-06





## PRODUCT FEATURES AND OPTIONS

### Type C - Angle Frame

- Aluminum
- Flush, gasketed, angle frame
- High visibility safety orange hold open arm
- 1/4" (6mm) slip-resistant checker plate lid
- Lifting handle
- Padlock staple
- Stainless steel hardware in type 316 throughout
- Bituminous paint on frame exterior
- 150 lbs/per square foot (7.2 kPa)

#### Options:

- Slam lock with removable opener and sealing plug
- Stainless steel lifting spring
- Safety orange fall through protection grating conforms to OSHA 1910.23
- Insulation and back pan
- 304 or 316 stainless steel throughout
- Skirt frames to suit the height of the concrete
- Retractable posts and chains

### Type M - Drainable Trough Frame

- Aluminum
- Flush, gasketed, drainable trough frame
- 1-1/2" (38mm) drain coupling and ABS elbow
- High visibility safety orange hold open arm
- 1/4" (6mm) slip resistant checker plate lid
- Corix lifting handle
- Recessed padlock hasp box
- Slam lock with removable opener and sealing plug
- Stainless steel lifting spring
- Stainless steel hardware in type 316 throughout
- Bituminous paint on frame exterior
- 300 lbs/per square foot (14.4 kPa)

#### Options:

- Safety orange fall through protection grating conforms to OSHA 1910.23
- Insulation and back pan
- 304 or 316 stainless steel throughout
- Skirt frames to suit the height of the concrete
- Retractable posts and chains
- Odor and debris gaskets

### Type M H-20 - AASHTO H-20

- Same as the Type M
- Hatch has been designed to support AASHTO H-20 wheel load
- Deflection shall not exceed 1/180<sup>th</sup> of the span

### Type M CL-625

- Same as the Type M and has been designed with a CL-625-ONT wheel load per clause 3.8.4.3(a) of CAN/CSA-S6-06 and includes an impact factor of 15% for an off-highway location
- Meets old H-20-16 loading requirements

### Type M CL-800

- Same as the Type M and has been designed for an emergency loading by a CL-800 #2 axle wheel load with an impact factor of 40% per CAN/CSA-S6-06

## QUALITY ASSURANCE

### Materials

- Conforms to ASTM B221-08 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
- Conforms to CAN3-S157-M83 Strength Design in Aluminum
- Conforms to ASTM A276/A276M Standard Specification for Stainless Steel
- Conforms to ASTM D1330-04(2015) Standard Specification for Rubber Sheet

### Welding - Aluminum

- Conforms to AWS D1.2/D1.2M Structural Welding Code for Aluminum
- Conforms to CSA W59.2 Welded Aluminum Construction and CSA W47.2 Certification of Companies for Fusion Welding of Aluminum



### Welding - Stainless Steel

- Conforms to AWS D1.6/D1.6M Structural Welding Code for Stainless Steel
- Conforms to CSA W59.1 Welded Aluminum Construction and CSA W47.1 Certification of Companies for Fusion Welding of Steel and Stainless Steel



**NOTE:** Custom sizes are available. Contact your nearest CORIX Water Products branch for information.

CORIX ITEM NO.	LOADING	CLEAR OPENING
<b>Type C - Angle Frame</b>		
<b>SINGLE DOOR</b>		
C24X24	150 psf	24" x 24" (610 x 610mm)
C30X30	150 psf	30" x 30" (762 x 762mm)
C36X36	150 psf	36" x 36" (914 x 914mm)
C42X42	150 psf	42" x 42" (1066 x 1066mm)
<b>DOUBLE DOOR</b>		
CD48X48	150 psf	48" x 48" (1219 x 1219mm)
CD60X60	150 psf	60" x 60" (1524 x 1524mm)
CD72X36	150 psf	72" x 36" (1828 x 914mm)
CD96X48	150 psf	96" x 48" (2438 x 1219mm)

CORIX ITEM NO.	LOADING	CLEAR OPENING
<b>Type M - Drainable Trough Frame</b>		
<b>SINGLE DOOR</b>		
M24X24	300 psf	24" x 24" (610 x 610mm)
M30X30	300 psf	30" x 30" (762 x 762mm)
M36X36	300 psf	36" x 36" (914 x 914mm)
M42X42	300 psf	42" x 42" (1066 x 1066mm)
<b>DOUBLE DOOR</b>		
MD48X48	300 psf	48" x 48" (1219 x 1219mm)
MD60X60	300 psf	60" x 60" (1524 x 1524mm)
MD72X36	300 psf	72" x 36" (1828 x 914mm)
MD96X48	300 psf	96" x 48" (2438 x 1219mm)
MD144X72	300 psf	144" x 72" (3658 x 1828mm)

CORIX ITEM NO.	LOADING	CLEAR OPENING
<b>Type M H-20 - AASHTO H-20</b>		
<b>SINGLE DOOR</b>		
MH2024X24	H-20	24" x 24" (610 x 610mm)
MH2030X30	H-20	30" x 30" (762 x 762mm)
MH2036X36	H-20	36" x 36" (914 x 914mm)
MH2042X42	H-20	42" x 42" (1066 x 1066mm)
<b>DOUBLE DOOR</b>		
MDH2048X48	H-20	48" x 48" (1219 x 1219mm)
MDH2060X60	H-20	60" x 60" (1524 x 1524mm)
MDH2072X36	H-20	72" x 36" (1828 x 914mm)
MDH2096X48	H-20	96" x 48" (2438 x 1219mm)

CORIX ITEM NO.	LOADING	CLEAR OPENING
<b>Type M CL-625</b>		
<b>SINGLE DOOR</b>		
MCL62524X24	CL-625	24" x 24" (610 x 610mm)
MCL62530X30	CL-625	30" x 30" (762 x 762mm)
MCL62536X36	CL-625	36" x 36" (914 x 914mm)
MCL62542X42	CL-625	42" x 42" (1066 x 1066mm)
<b>DOUBLE DOOR</b>		
MDCL62548X48	CL-625	48" x 48" (1219 x 1219mm)
MDCL62560X60	CL-625	60" x 60" (1524 x 1524mm)
MDCL62572X36	CL-625	72" x 36" (1828 x 914mm)
MDCL62596X48	CL-625	96" x 48" (2438 x 1219mm)

CORIX ITEM NO.	LOADING	CLEAR OPENING
<b>Type M CL-800</b>		
<b>SINGLE DOOR</b>		
MCL80024X24	CL-800	24" x 24" (610 x 610mm)
MCL80030X30	CL-800	30" x 30" (762 x 762mm)
MCL80036X36	CL-800	36" x 36" (914 x 914mm)
MCL80042X42	CL-800	42" x 42" (1066 x 1066mm)
<b>DOUBLE DOOR</b>		
MDCL80048X48	CL-800	48" x 48" (1219 x 1219mm)
MDCL80060X60	CL-800	60" x 60" (1524 x 1524mm)
MDCL80072X36	CL-800	72" x 36" (1828 x 914mm)
MDCL80096X48	CL-800	96" x 48" (2438 x 1219mm)

## ABOUT CORIX WATER PRODUCTS

CORIX Water Products maintains one of the largest single source inventories of water, wastewater, and irrigation supplies in the industry. We offer a comprehensive and flexible approach to delivering the correct systems, from product and equipment supply to full system design, construction, operations, and maintenance.

## DELIVERING THE CORIX ADVANTAGE

As a fully integrated provider of utility infrastructure products, services and systems for water, wastewater and sustainable energy, our "one-stop shop" approach allows us to deliver comprehensive, flexible, and innovative solutions to our customers' most complex utility infrastructure challenges.

Design assistance, pricing, specifications, and drawings are available upon request. Email [engineered.products@corix.com](mailto:engineered.products@corix.com).