



ej

## Access Hatch Solutions



# Table of Contents

<b>Access Hatch Load Ratings</b>	<b>4</b>
<b>Aluminum Access Hatches</b>	<b>8</b>
<b>Ductile Iron Access Hatches</b>	<b>22</b>

## Access Hatch Solutions

Product	Description	Page
<b>Aluminum Access Hatches</b>	Access Hatch Load Ratings	4
	Aluminum Hatch Frame Design Choices	4
	Aluminum Hatch Features and Options	5
	Lift Assist — Pneumatic Lift Assist for Aluminum Hatches	6
	SAFE HATCH® Safety Grate System	7
	ALN Series Angle Frame Pedestrian Rated	8
	ALN Series with Safe Hatch® Safety Grate System	9
	CLN Series Channel Frame Pedestrian Rated	11
	CLN Series with Safe Hatch® Safety Grate System	12
	CLS Series Channel Frame, Pedestrian Rated, Lift Assist	14
	AHS Series Angle Frame, H20, Lift Assist	15
	AHS Series with Safe Hatch® Safety Grate System	16
	CHS Series Channel Frame, H20, Lift Assist	18
	CHS Series with Safe Hatch® Safety Grate System	19
<b>Ductile Iron Access Hatches</b>	ERMATIC® Modular Covers	21
	Ductile Iron Hinged Hatch Access Assembly	22

EJ has a broad offering of access hatch products available in aluminum, steel and ductile iron.

Our hatches are designed to provide easy and secure access to below ground, and below floor installations.

Access hatches are used in areas such as sewer pump stations, water treatment plants, gas valve vaults, water meter pits, water valve vaults, telephone and electric vaults, industrial plant pits, ventilation shafts, fuel storage pits, de-icing control facilities, storm drains, monitoring wells and collection pits.



Aluminum Access Hatches for  
Non-Traffic or Unintended Vehicular Traffic



Ductile Iron Access Hatches for  
Heavy Duty Traffic



Ductile Iron Access Hatches for  
Extra Heavy Duty Airport Traffic

## Access Hatch Load Requirements

### Load Requirement Definitions

#### Non-traffic Load Requirement

- Non-traffic, pedestrian rated
- Material is aluminum
- 300 lbs per square foot live load
- Deflection shall not exceed 1/150th of the span

#### Unintended Vehicular Traffic Load Requirement

- Unintended vehicular traffic
- Material is aluminum
- 20,800 lbs (16,000 lbs plus 30% impact factor) on a 10" x 20" tire contact area
- AASHTO H20 Standard Specifications for Highway Bridges\*
- **Do not place in wheel line**

#### Vehicular Traffic Load Requirement

- Heavy duty vehicular traffic
- Material is ductile iron
- AASHTO M306 loading\*
- 40,000 lbs (16,000 lbs plus 250% safety factor) on a 9" x 9" tire contact area
- Proof load tested for 1 minute without failure

#### Airport Load Requirement

- Extra heavy duty airport and port authority traffic
- Material is ductile iron
- Proof load tested on a 9" x 9" tire contact area to a minimum of 200,000 lbs

\*AASHTO H20 per the Standard Specifications for Highway Bridges is theoretical hand calculations with other safety factors vs actual proof load testing for AASHTO M306 Standard Specification for Drainage, Sewer, Utility, and Related Castings.

## Aluminum Frame Design Choices

### Angle Frames — Non channeling

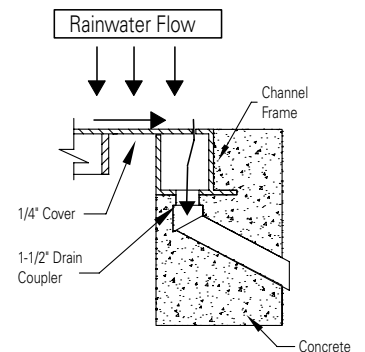
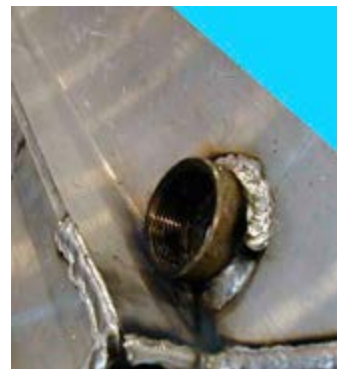


### Channel Frames — Channels water away from hatch



### Drain Coupling

Drain coupling helps divert water away from the hatch structure. Water is directed through the channel in the frame to a drain coupler, which is connected to a drainage pipe. In this series, the standard coupler location is on the bottom of the frame.



Drain coupling helps divert water away from hatch structure.



# Aluminum Hatch Features and Options



Stainless steel hinge



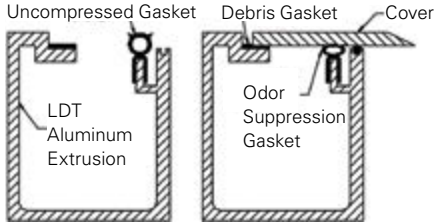
Aluminum plate treated with safety sure grip



Regular non-treated aluminum plate



Lift handle



Odor suppressive application rim seal gasket



Slam lock



T-handle in slam lock



Slam lock with plug



Pentahead plug and post key



Exposed padlock clip



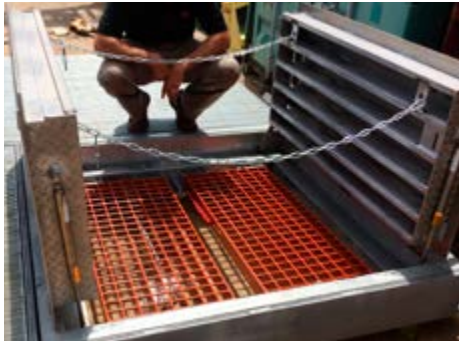
Recessed padlock clip in closed position



Recessed padlock clip in open position



Nut rail—offers attachment points for spring nut and bolt systems, conduit clamps, or other connectors



Safety chain—provides a visual barrier while the doors are open



Skirt/Riser—built to match slab thickness

## Lift Assist — Pneumatic Lift Assist for Aluminum and Steel Access Hatches



### Lift Assist

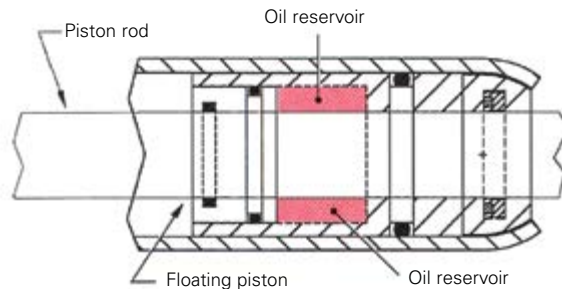
Pneumatic lift assist to easily open steel and aluminum access hatches.



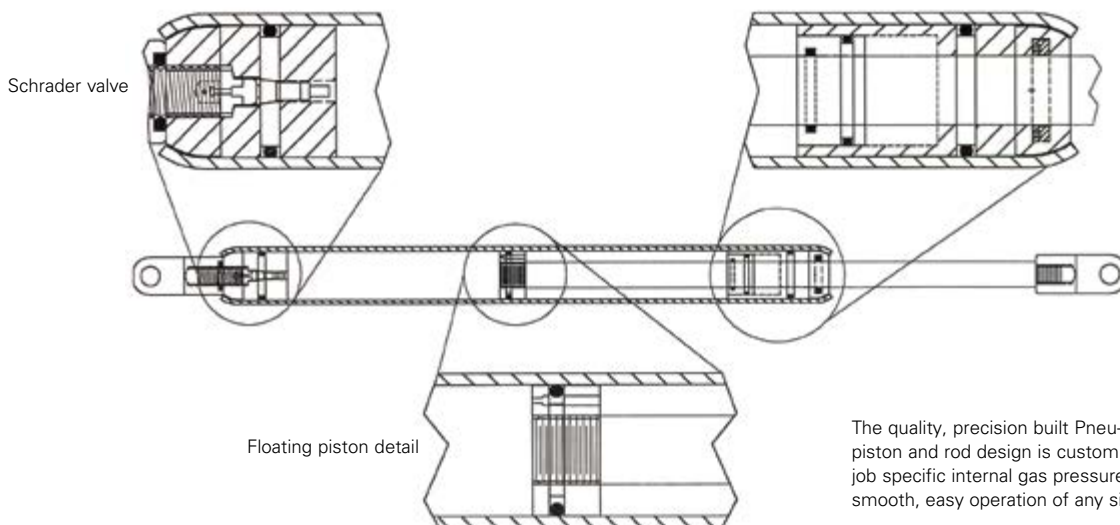
### CNC Controlled Precision Quality

Reliable—smooth operation year after year

- Under laboratory conditions our industrial Pneu-Springs have a proven cycle life of over 250,000 cycles.
- Durable: Heavy duty stainless steel construction
- Quality materials are assembled with close manufacturing tolerances to assure long life.
- Easy maintenance: Trouble-free operation
- In the event a lift assist component must be replaced, removal and re-installation is a simple matter requiring the removal of just three bolts.
- Space saving: Fits in confined spaces
- The Pneu-Spring design allows the lift assist to be installed in a horizontal position where the lift assist device mounts can be confined to the concrete slab thickness.



The Pneu-Spring's oil reservoir and heavy duty stainless steel construction allow for years of trouble-free operation.



The quality, precision built Pneu-Spring's piston and rod design is custom loaded with job specific internal gas pressure to ensure smooth, easy operation of any size hatch.



## SAFE HATCH® Safety Grate System

### Safety and Security

Our SAFE HATCH® safety grates, a patented design, cover an opening and provide fall through protection in conformance with OSHA standard 1910.23.

### Standard Features

- Doors cannot be closed unless the fall through protection has been put back in place (protecting the next operator).
- Visual inspections and limited maintenance can be done while safety grate is left in place.
- Safety orange aluminum grates create a visual barrier around the pit. The orange epoxy painted grates create an awareness of the hazard.

### Quality Components

Built with all stainless steel hardware, grates are also designed to withstand corrosive environments and provide 300 psf pedestrian rated fall through protection. Also available in H20 for low density traffic.

### State-of-the-Art Manufacturing

We strive for continuous improvement in all of our manufacturing processes. Lean manufacturing techniques translate into savings for our customers and improved lead times.



Aluminum 1/4" diamond plate cover with all stainless steel hardware



Closed safety grates  
Safety orange painted aluminum grates provide 300 psf non-traffic pedestrian rated fall through protection



Open safety grates  
Safety orange painted aluminum grates provide a visual barrier around pit

## ALN SERIES ANGLE FRAME, PEDESTRIAN RATED (LEC & LECD)

- Non-traffic, pedestrian rated
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Exposed padlock clip
- Aluminum lift handle
- Extruded aluminum frame
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

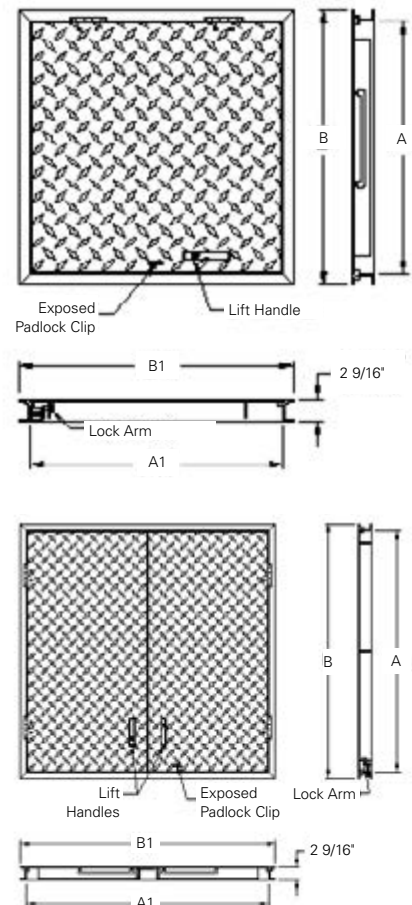
No vehicle traffic allowed.



ALN Series Angle Frame, Pedestrian Rated

Catalog Number	Description	Inside Dim. A x A1	Outside Dim. B x B1	Single Cover Weight
Aluminum				
H24241001	1 Door Hatch	24 x 24	26 1/2 x 26 1/2	15
H24301001	1 Door Hatch	24 x 30	26 1/2 x 32 1/2	20
H24361001	1 Door Hatch	24 x 36	26 1/2 x 38 1/2	28
H30301001	1 Door Hatch	30 x 30	32 1/2 x 32 1/2	25
H30361001	1 Door Hatch	30 x 36	32 1/2 x 38 1/2	34
H30481001	1 Door Hatch	30 x 48	32 1/2 x 50 1/2	44
H36361001	1 Door Hatch	36 x 36	38 1/2 x 38 1/2	40
H36481001	1 Door Hatch	36 x 48	38 1/2 x 50 1/2	52
H42421001	1 Door Hatch	42 x 42	44 1/2 x 44 1/2	53
H30481101	2 Door Hatch	30 x 48	32 1/2 x 50 1/2	25
H30541101	2 Door Hatch	30 x 54	32 1/2 x 56 1/2	29
H36481101	2 Door Hatch	36 x 48	38 1/2 x 50 1/2	31
H36601101	2 Door Hatch	36 x 60	38 1/2 x 62 1/2	37
H42481101	2 Door Hatch	42 x 48	44 1/2 x 50 1/2	36
H48481101	2 Door Hatch	48 x 48	50 1/2 x 50 1/2	41
H48541101	2 Door Hatch	48 x 54	50 1/2 x 56 1/2	45
H48721101	2 Door Hatch	48 x 72	50 1/2 x 74 1/2	58
H60601101	2 Door Hatch	60 x 60	62 1/2 x 62 1/2	66

Note: All dimensions are in inches. All weights are in pounds.





## ALN SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (LEC-AOSG) PEDESTRIAN RATED

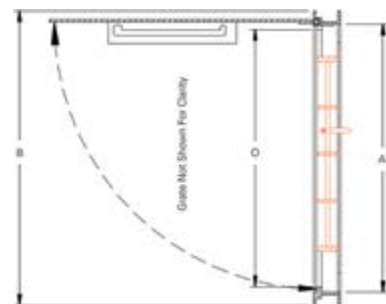
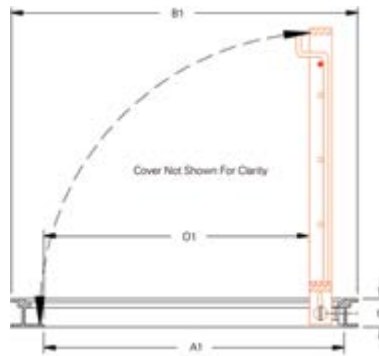
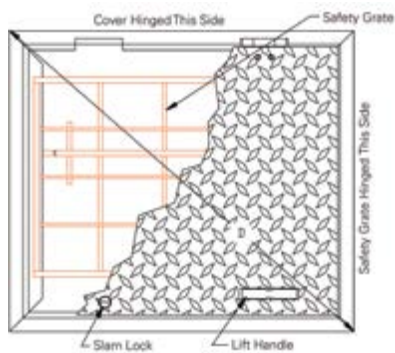
- Non-traffic, pedestrian rated
- Epoxy painted safety orange aluminum safety grate system for fall through protection and controlled confined space entry
- Heavy duty stainless steel hinges
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Stainless steel hardware
- Aluminum lift handle
- Extruded aluminum frame
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

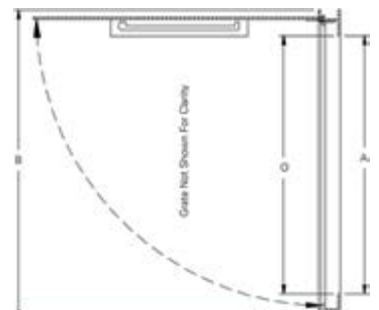
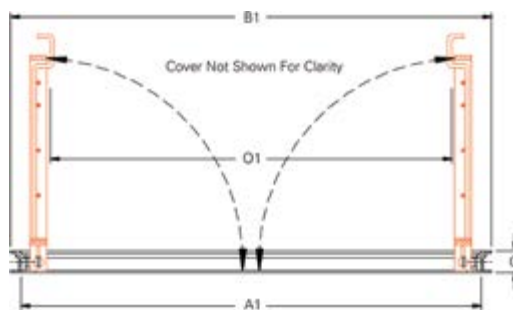
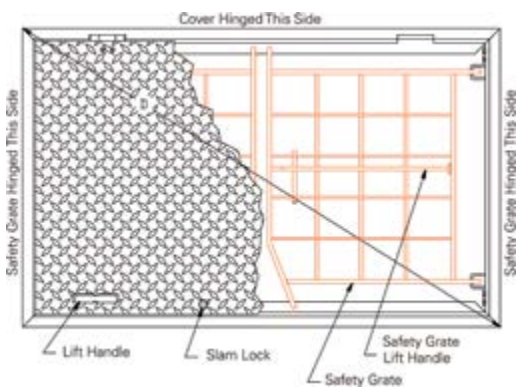
No vehicle traffic allowed.



### Single Grate, Single Cover Style

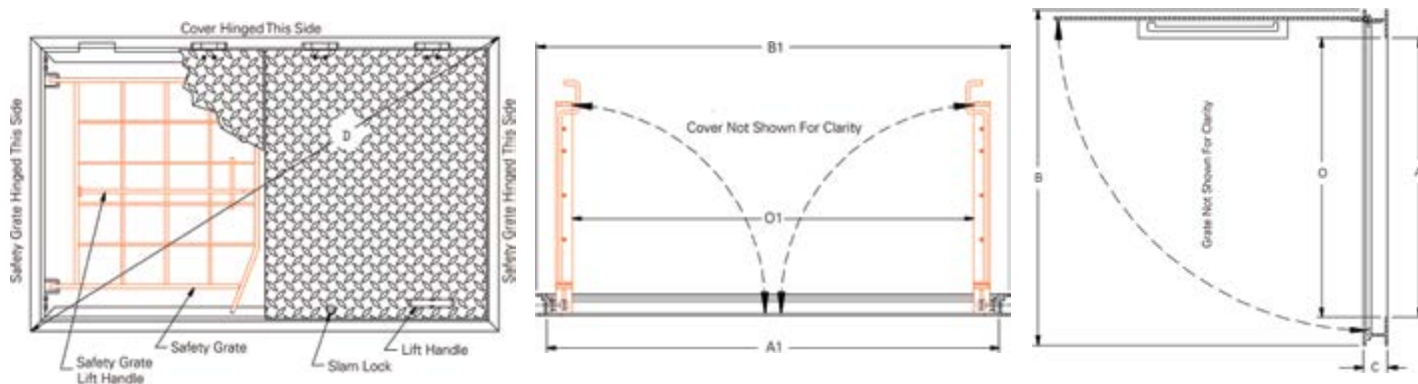


### Double Grate, Single Cover Style



## ALN SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (CONTINUED) (LECD-AOSG) PEDESTRIAN RATED

### Double Grate, Double Cover Style



ALN Series with SAFE HATCH® Safety Grate System

Catalog Number	Description	Unobstructed Clear Opening	Dimensions	Dimensions	Height	Diagonal
Aluminum		O x O1	A x A1	B x B1	C	D

### Single Grate, Single Cover Style

H24241091	1 Door Hatch	24 x 24	25 x 27 1/4	27 1/2 x 31 1/2	2 9/16	41 13/16
H24301091	1 Door Hatch	24 x 30	25 x 33 1/4	27 1/2 x 37 1/2	2 9/16	46 1/2
H24361091	1 Door Hatch	24 x 36	25 x 39 1/4	27 1/2 x 43 1/2	2 9/16	51 7/16
H30301091	1 Door Hatch	30 x 30	31 x 33 1/4	33 1/2 x 37 1/2	2 9/16	50 5/16
H30361091	1 Door Hatch	30 x 36	31 x 39 1/4	33 1/2 x 43 1/2	2 9/16	54 7/8
H36361091	1 Door Hatch	36 x 36	37 x 39 1/4	39 1/2 x 43 1/2	2 9/16	58 3/4
H42421091	1 Door Hatch	42 x 42	43 x 46 1/4	45 1/2 x 50 1/2	2 9/16	68

### Double Grate, Single Cover Style

H30481091	1 Door Hatch	30 x 48	30 x 55	36 x 57 1/2	2 9/16	67 13/16
H36481091	1 Door Hatch	36 x 48	36 x 55	42 x 57 1/2	2 9/16	71 3/16

### Double Grate, Double Cover Style

H30481191	2 Door Hatch	30 x 48	30 x 55	36 x 57 1/2	2 9/16	67 13/16
H30541191	2 Door Hatch	30 x 54	30 x 61	36 x 63 1/2	2 9/16	73
H36481191	2 Door Hatch	36 x 48	36 x 55	42 x 57 1/2	2 9/16	71 3/16
H36601191	2 Door Hatch	36 x 60	36 x 67	42 x 69 1/2	2 9/16	81 3/16
H42481191	2 Door Hatch	42 x 48	42 x 55	48 x 57 1/2	2 9/16	74 7/8
H48481191	2 Door Hatch	48 x 48	48 x 56	54 x 58 1/2	2 9/16	79 5/8
H48541191	2 Door Hatch	48 x 54	48 x 62	54 x 64 1/2	2 9/16	84 1/8
H48721191	2 Door Hatch	48 x 72	48 x 81	54 x 83 1/2	2 9/16	99 7/16
H60601191	2 Door Hatch	60 x 60	60 x 69	66 x 71 1/2	2 9/16	97 5/16

Note: All dimensions are in inches.

## CLN SERIES CHANNEL FRAME, PEDESTRIAN RATED (LDT & LDTD)

- Non-traffic, pedestrian rated
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Exposed padlock clip
- Extruded aluminum channel frame with 1 1/2" drain coupler on underside of frame
- Aluminum lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

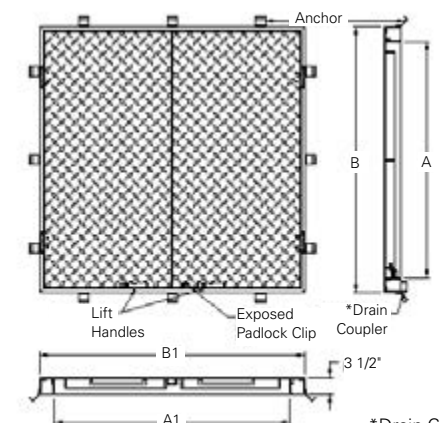
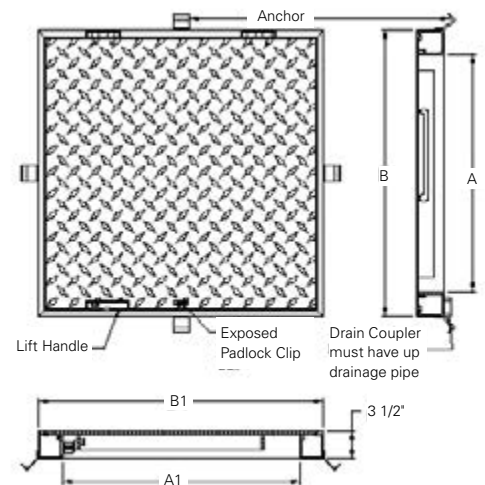
No vehicle traffic allowed.



CLN Series Channel Frame, Pedestrian Rated

Catalog Number	Description	Inside Dim. A x A1	Outside Dim. B x B1	Single Cover Weight
H24241401	1 Door Hatch	24 x 24	30 x 30	21
H24301401	1 Door Hatch	24 x 30	30 x 36	26
H24361401	1 Door Hatch	24 x 36	30 x 42	35
H30301401	1 Door Hatch	30 x 30	36 x 36	32
H30361401	1 Door Hatch	30 x 36	36 x 42	42
H30481401	1 Door Hatch	30 x 48	36 x 54	54
H36361401	1 Door Hatch	36 x 36	42 x 42	49
H36481401	1 Door Hatch	36 x 48	42 x 54	62
H42421401	1 Door Hatch	42 x 42	48 x 48	64
H30481501	2 Door Hatch	30 x 48	36 x 54	29
H30541501	2 Door Hatch	30 x 54	36 x 60	33
H36481501	2 Door Hatch	36 x 48	42 x 54	36
H36601501	2 Door Hatch	36 x 60	42 x 66	43
H42481501	2 Door Hatch	42 x 48	48 x 54	41
H48481501	2 Door Hatch	48 x 48	54 x 54	48
H48541501	2 Door Hatch	48 x 54	54 x 60	54
H48721501	2 Door Hatch	48 x 72	54 x 78	67
H60601501	2 Door Hatch	60 x 60	66 x 66	73

Note: All dimensions are in inches. All weights are in pounds.



\*Drain Coupler must have up drainage pipe



## CLN SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (DT-AOSG) PEDESTRIAN RATED

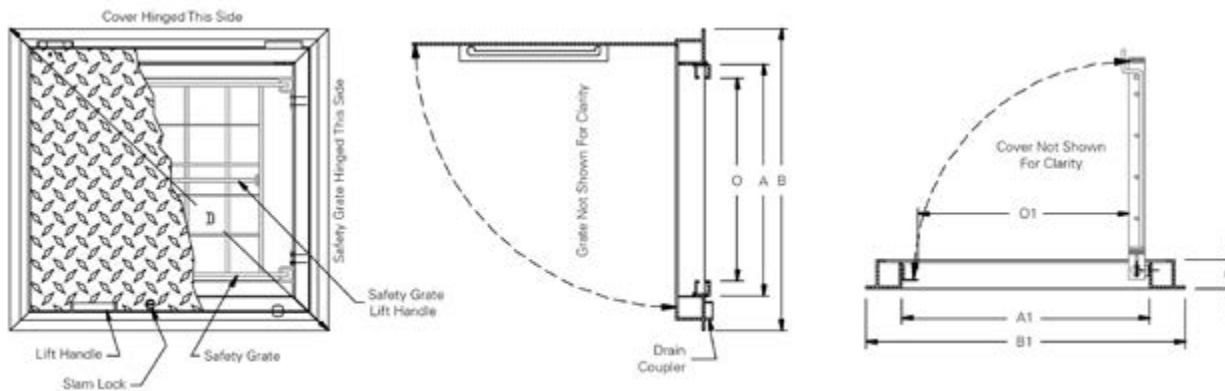
- Non-traffic, pedestrian rated
- Epoxy painted safety orange aluminum safety grate system for fall through protection and controlled confined space entry
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Extruded aluminum channel frame with
- 1 1/2" drain coupler on underside of frame
- 1/8" cushion o-ring gasket
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Aluminum lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

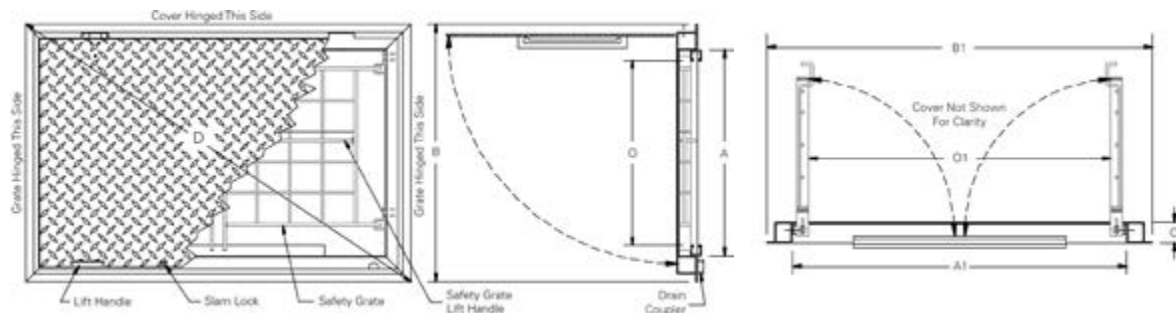
No vehicle traffic allowed.



### Single Grate, Single Cover Style

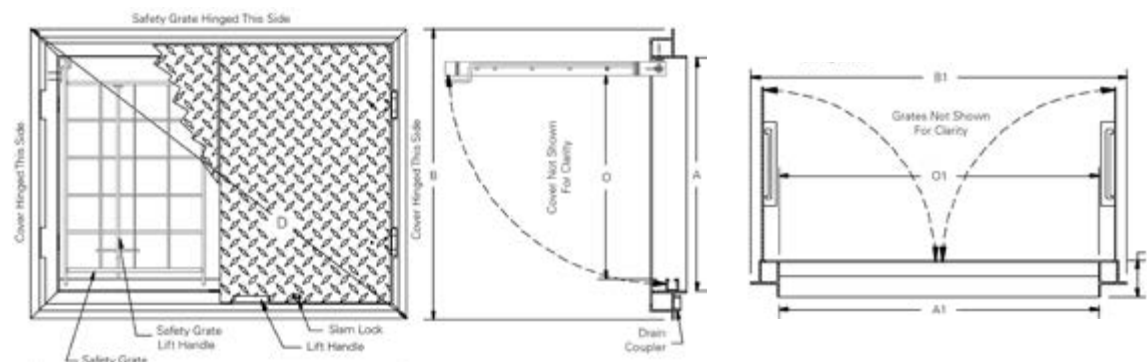


### Double Grate, Single Cover Style



## CLN SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (CONTINUED) (DT-AOSG) PEDESTRIAN RATED

### Double Grate, Double Cover Style



CLN Series with SAFE HATCH® Safety Grate System

Catalog Number	Description	Unobstructed Clear Opening O x O1	Dimensions A x A1	Dimensions B x B1	Height C	Diagonal D
Aluminum						

### Single Grate, Single Cover Style

H24243191	1 Door Hatch	24 x 24	28 x 30	36 1/2 x 38 1/2	3 1/2	53 1/16
H24303191	1 Door Hatch	24 x 30	28 x 36	36 1/2 x 44 1/2	3 1/2	57 9/16
H24363191	1 Door Hatch	24 x 36	28 x 42	36 1/2 x 50 1/2	3 1/2	62 5/16
H30303191	1 Door Hatch	30 x 30	34 x 36	42 1/2 x 44 1/2	3 1/2	61 9/16
H30363191	1 Door Hatch	30 x 36	34 x 42	42 1/2 x 50 1/2	3 1/2	66
H36363191	1 Door Hatch	36 x 36	40 x 42	48 1/2 x 50 1/2	3 1/2	70 1/16
H42423191	1 Door Hatch	42 x 42	46 x 48	54 1/2 x 56 1/2	5 1/2	78 1/2

### Double Grate, Single Cover Style

H30483191	1 Door Hatch	30 x 48	34 x 55	42 1/2 x 63 1/2	3 1/2	76 7/16
H42423191	1 Door Hatch	36 x 48	40 x 55	48 1/2 x 63 1/2	3 1/2	79 15/16

### Double Grate, Double Cover Style

H30483291	2 Door Hatch	30 x 48	35 x 48	43 1/2 x 56 1/2	3 1/2	71 5/16
H30543291	2 Door Hatch	30 x 54	35 x 54	43 1/2 x 62 1/2	3 1/2	76 1/8
H36483291	2 Door Hatch	36 x 48	41 x 48	49 1/2 x 56 1/2	3 1/2	75 1/8
H36603291	2 Door Hatch	36 x 60	41 x 60	49 1/2 x 68 1/2	3 1/2	84 1/2
H42483291	2 Door Hatch	42 x 48	47 x 48	55 1/2 x 56 1/2	3 1/2	79 3/16
H48483291	2 Door Hatch	48 x 48	53 x 48	61 1/2 x 56 1/2	5 1/2	83 1/2
H48543291	2 Door Hatch	48 x 54	53 x 54	61 1/2 x 62 1/2	5 1/2	87 11/16
H48723291	2 Door Hatch	48 x 72	53 1/2 x 72	62 x 80 1/2	5 1/2	10 15/8
H60603291	2 Door Hatch	60 x 60	65 1/2 x 60	74 x 68 1/2	5 1/2	100 13/16
H48603291	2 Door Hatch	48 x 60	53 1/2 x 60	62 x 68 1/2	5 1/2	92 3/8
H60723291	2 Door Hatch	60 x 72	67 x 72	75 1/2 x 80 1/2	5 1/2	110 3/8

Note: All dimensions are in inches.

## CLS SERIES CHANNEL FRAME, PEDESTRIAN RATED, LIFT ASSIST (CH & CHD)

- Non-traffic, pedestrian rated
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Heavy duty stainless steel lift assist
- Extruded aluminum channel frame with 1 1/2" drain coupler on underside of frame
- 1/8" cushion o-ring gasket
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Aluminum lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

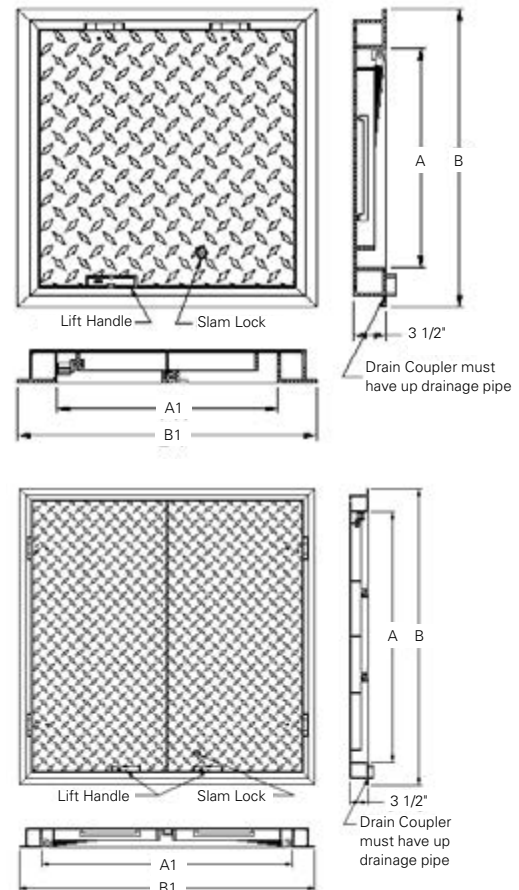
No vehicle traffic allowed.



CLS Series Channel Frame, Pedestrian Rated, Lift Assist

Catalog Number	Description	Inside Dim. A x A1	Outside Dim. B x B1
Aluminum			
H24241601	1 Door Hatch	24 x 24	32 1/2 x 32 1/2
H30301601	1 Door Hatch	30 x 30	38 1/2 x 38 1/2
H30361601	1 Door Hatch	30 x 36	38 1/2 x 44 1/2
H30481601	1 Door Hatch	30 x 48	38 1/2 x 56 1/2
H36361601	1 Door Hatch	36 x 36	44 1/2 x 44 1/2
H36481601	1 Door Hatch	36 x 48	44 1/2 x 56 1/2
H42421601	1 Door Hatch	42 x 42	50 1/2 x 50 1/2
H30601701	2 Door Hatch	30 x 60	38 1/2 x 68 1/2
H36601701	2 Door Hatch	36 x 60	44 1/2 x 68 1/2
H36721701	2 Door Hatch	36 x 72	44 1/2 x 80 1/2
H48481701	2 Door Hatch	48 x 48	56 1/2 x 56 1/2
H48721701	2 Door Hatch	48 x 72	56 1/2 x 80 1/2
H60601701	2 Door Hatch	60 x 60	68 1/2 x 68 1/2

Note: All dimensions are in inches.





## AHS SERIES ANGLE FRAME, H20, LIFT ASSIST (EC-HD & ECD-HD)

- Unintended vehicular traffic rated
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Heavy duty stainless steel lift assist
- Aluminum lift handle
- Extruded aluminum frame
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Heavy duty stainless steel lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

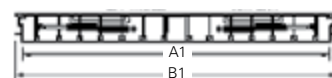
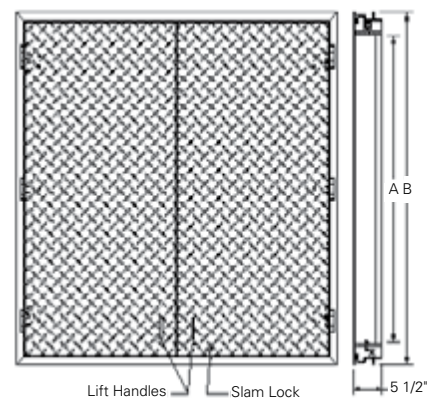
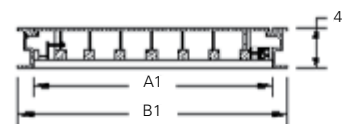
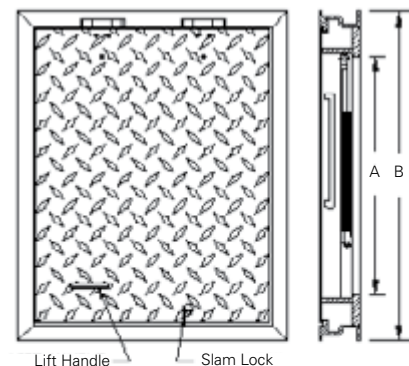
Do not place in wheel line.



AHS Series Angle Frame, H20, Lift Assist

Catalog Number	Description	Inside Dim. A x A1	Outside Dim. B x B1	Height
Aluminum				
H24241201	1 Door Hatch	24 x 24	33 x 27	4
H24301201	1 Door Hatch	24 x 30	33 x 33	4
H24361201	1 Door Hatch	24 x 36	33 x 39	4
H30301201	1 Door Hatch	30 x 30	39 x 33	4
H30361201	1 Door Hatch	30 x 36	39 x 39	4
H30481201	1 Door Hatch	30 x 48	39 x 51	4
H36361201	1 Door Hatch	36 x 36	45 x 39	5 1/2
H36481201	1 Door Hatch	36 x 48	45 x 51	5 1/2
H42421201	1 Door Hatch	42 x 42	51 x 45	5 1/2
H30481301	2 Door Hatch	30 x 48	39 x 51	4
H30541301	2 Door Hatch	30 x 54	39 x 57	4
H36481301	2 Door Hatch	36 x 48	45 x 51	5 1/2
H36601301	2 Door Hatch	36 x 60	45 x 63	5 1/2
H42481301	2 Door Hatch	42 x 48	51 x 51	5 1/2
H48481301	2 Door Hatch	48 x 48	57 x 51	5 1/2
H48541301	2 Door Hatch	48 x 54	57 x 57	5 1/2
H48721301	2 Door Hatch	48 x 72	57 x 75	5 1/2
H60601301	2 Door Hatch	60 x 60	69 x 63	5 1/2

Note: All dimensions are in inches.



## AHS SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (EC-HD-AOSG & ECD-HD-AOSG)

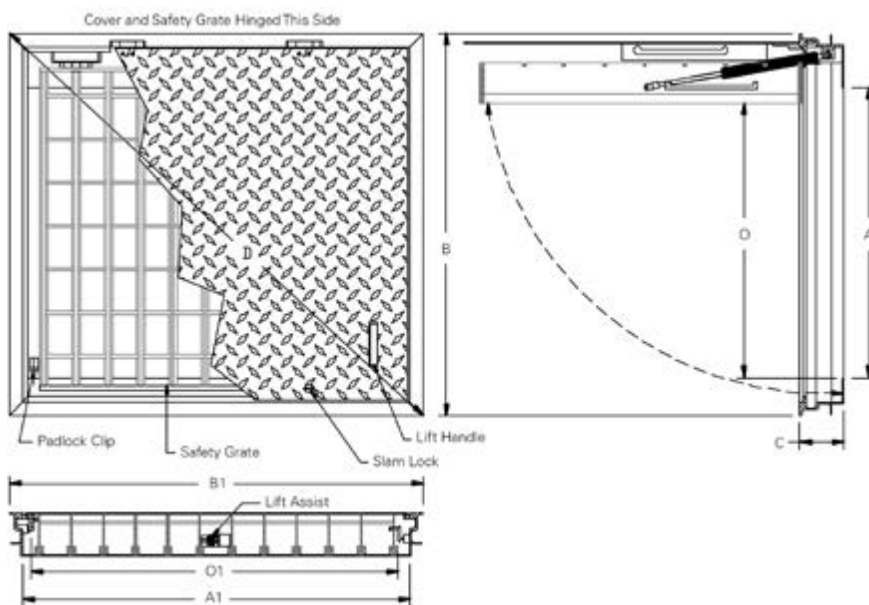
- Unintended vehicular traffic rated
- Epoxy painted safety orange aluminum safety grate system for fall through protection and controlled confined space entry
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Heavy duty stainless steel lift assist
- Aluminum lift handle
- Extruded aluminum frame
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Heavy duty stainless steel lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

Do not place in wheel line.

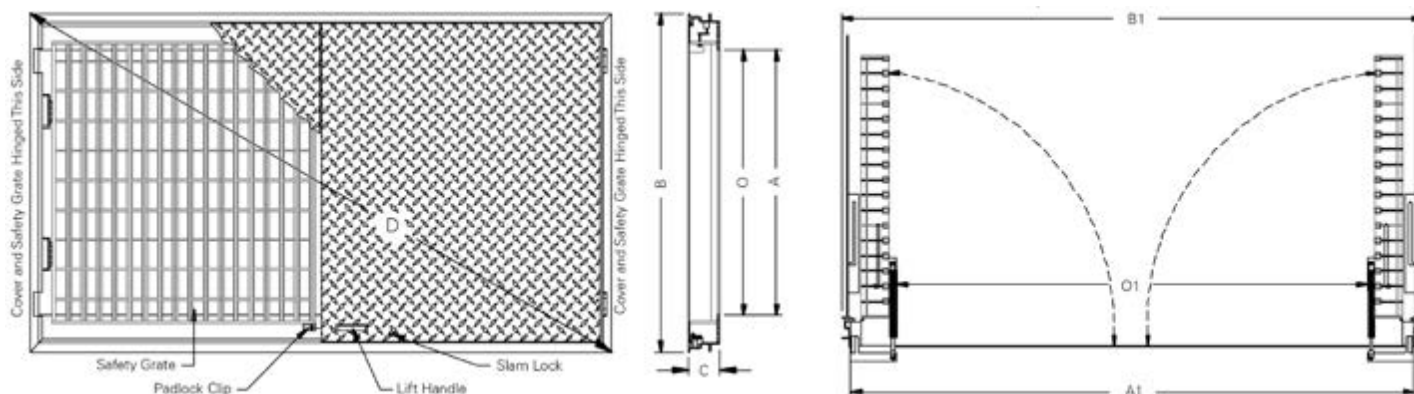


### Single Grate, Single Cover Style



## AHS SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (CONTINUED) (EC-HD-AOSG & ECD-HD-AOSG)

### Double Grate, Double Cover Style



AHS Series Angle Style, H20, Lift Assist with SAFE HATCH® Safety Grate System

Catalog Number	Description	Unobstructed Clear Opening	Dimensions	Dimensions	Height	Diagonal
Aluminum		O x O1	A x A1	B x B1	C	D

### Single Grate, Single Cover Style

H24241291	1 Door Hatch	24 x 24	24 x 27	35 x 30	5 1/2	46 1/8
H24301291	1 Door Hatch	24 x 30	24 x 33	35 x 36	5 1/2	50 3/16
H24361291	1 Door Hatch	24 x 36	24 x 39	35 x 42	5 1/2	54 11/16
H30301291	1 Door Hatch	30 x 30	30 x 33	41 x 36	5 1/2	54 9/16
H30361291	1 Door Hatch	30 x 36	30 x 39	41 x 42	5 1/2	58 11/16
H30481291	1 Door Hatch	30 x 48	32 x 51	43 x 54	5 1/2	69
H36361291	1 Door Hatch	36 x 36	38 x 39	49 x 42	5 1/2	64 9/16
H36481291	1 Door Hatch	36 x 48	38 x 51	49 x 54	5 1/2	72 15/16
H42421291	1 Door Hatch	42 x 42	44 x 45	55 x 48	5 1/2	73

### Double Grate, Double Cover Style

H30481391	2 Door Hatch	30 x 48	30 x 66	40 x 69	5 1/2	79 3/4
H30541391	2 Door Hatch	30 x 54	30 x 72	40 x 75	5 1/2	85
H36481391	2 Door Hatch	36 x 48	36 x 66	46 x 69	5 1/2	82 15/16
H36601391	2 Door Hatch	36 x 60	36 x 78	46 x 81	5 1/2	93 1/8
H42481391	2 Door Hatch	42 x 48	42 x 66	52 x 69	5 1/2	86 3/8
H48481391	2 Door Hatch	48 x 48	48 x 66	58 x 69	5 1/2	90 1/8
H48541391	2 Door Hatch	48 x 54	48 x 72	58 x 75	5 1/2	94 13/16
H48721391	2 Door Hatch	48 x 72	48 x 90	58 x 93	5 1/2	109 5/8
H60601391	2 Door Hatch	60 x 60	60 x 78	70 x 81	5 1/2	107 1/16
H48601391	2 Door Hatch	48 x 60	48 x 78	58 x 81	5 1/2	99 5/8
H60721391	2 Door Hatch	60 x 72	60 x 90	70 x 93	5 1/2	116 3/8

Note: All dimensions are in inches. All weights are in pounds.



## CHS SERIES CHANNEL FRAME, H20, LIFT ASSIST (DT-HD & DTD-HD)

- Unintended vehicular traffic rated
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Heavy duty stainless steel lift assist
- Extruded aluminum channel frame with 1 1/2" drain coupler on underside of frame
- 1/8" cushion o-ring gasket
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Heavy duty stainless steel lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

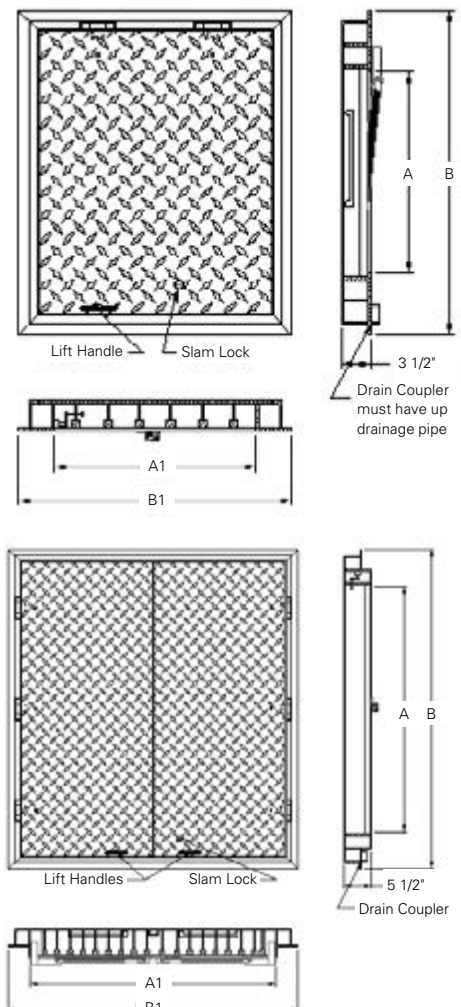
Do not place in wheel line.



CHS Series Channel Frame, H20, Lift Assist

Catalog Number	Description	Inside Dim. A x A1	Outside Dim. B x B1	Height
H24241801	1 Door Hatch	24 x 24	38 1/2 x 32 1/2	3 1/2
H24301801	1 Door Hatch	24 x 30	38 1/2 x 38 1/2	3 1/2
H24361801	1 Door Hatch	24 x 36	38 1/2 x 44 1/2	3 1/2
H30301801	1 Door Hatch	30 x 30	44 1/2 x 38 1/2	3 1/2
H30361801	1 Door Hatch	30 x 36	44 1/2 x 44 1/2	3 1/2
H30481801	1 Door Hatch	30 x 48	44 1/2 x 56 1/2	3 1/2
H36361801	1 Door Hatch	36 x 36	50 1/2 x 44 1/2	5 1/2
H36481801	1 Door Hatch	36 x 48	50 1/2 x 56 1/2	5 1/2
H42421801	1 Door Hatch	42 x 42	56 1/2 x 50 1/2	5 1/2
H30481901	2 Door Hatch	30 x 48	44 1/2 x 56 1/2	3 1/2
H30541901	2 Door Hatch	30 x 54	44 1/2 x 62 1/2	3 1/2
H36481901	2 Door Hatch	36 x 48	50 1/2 x 56 1/2	5 1/2
H36601901	2 Door Hatch	36 x 60	50 1/2 x 68 1/2	5 1/2
H42481901	2 Door Hatch	42 x 48	56 1/2 x 56 1/2	5 1/2
H48481901	2 Door Hatch	48 x 48	62 1/2 x 56 1/2	5 1/2
H48541901	2 Door Hatch	48 x 54	62 1/2 x 62 1/2	5 1/2
H48721901	2 Door Hatch	48 x 72	62 1/2 x 80 1/2	5 1/2
H60601901	2 Door Hatch	60 x 60	74 1/2 x 68 1/2	5 1/2

Note: All dimensions are in inches.



## CHS SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (DT-HD-AOSG & DTD-HD-AOSG)

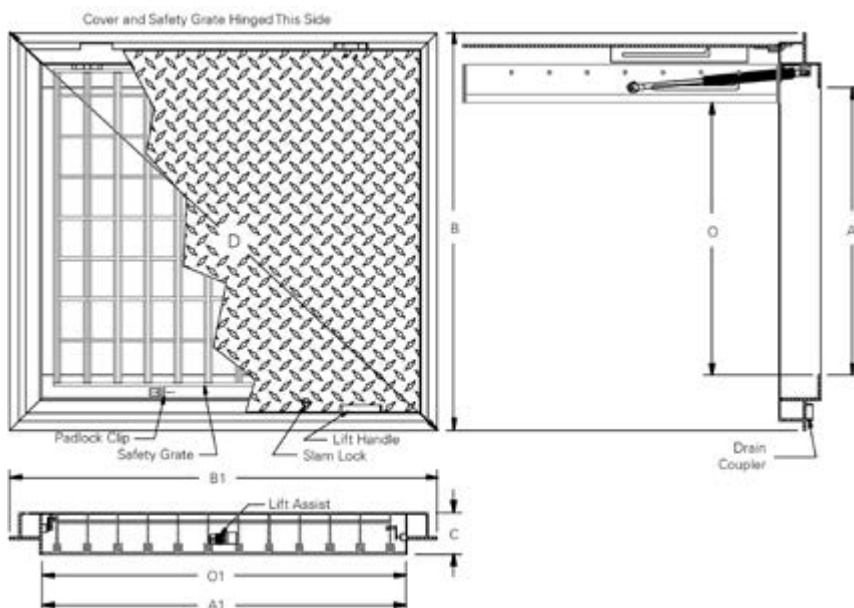
- Unintended vehicular traffic rated
- Epoxy painted safety orange aluminum safety grate system for fall through protection and controlled confined space entry
- Red stainless steel hold open arm
- Heavy duty stainless steel hinges
- Heavy duty stainless steel lift assist
- Extruded aluminum channel frame with 1 1/2" drain coupler on underside of frame
- 1/8" cushion o-ring gasket
- Exterior of frame coated with black primer
- Stainless steel slam lock with removable t-handle and threaded stainless steel plug
- Heavy duty stainless steel lift handle
- 1/4" aluminum diamond plate cover

See aluminum hatch options page 5 for additional options.

Do not place in wheel line.

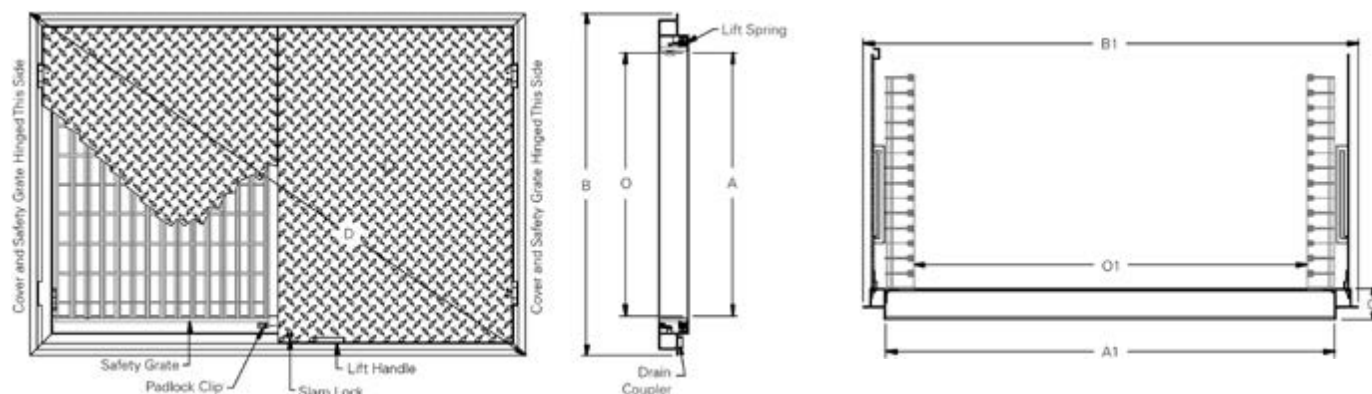


### Single Grate, Single Cover Style



## CHS SERIES WITH SAFE HATCH® SAFETY GRATE SYSTEM (CONTINUED) (DT-HD-AOSG & DTD-HD-AOSG)

### Double Grate, Double Cover Style



CHS Series with SAFE HATCH® Safety Grate System

Catalog Number	Description	Unobstructed Clear Opening	Dimensions	Dimensions	Height	Diagonal
Aluminum		O x O1	A x A1	B x B1	C	D

### Single Grate, Single Cover Style

H24241891	1 Door Hatch	24 x 24	24 x 24	38 1/2 x 32 1/2	5 1/2	50 3/8
H24301891	1 Door Hatch	24 x 30	24 x 30	38 1/2 x 38 1/2	5 1/2	54 7/16
H24361891	1 Door Hatch	24 x 36	24 x 36	38 1/2 x 44 1/2	5 1/2	58 13/16
H30301891	1 Door Hatch	30 x 30	30 x 30	44 1/2 x 38 1/2	5 1/2	58 13/16
H30361891	1 Door Hatch	30 x 36	30 x 36	44 1/2 x 44 1/2	5 1/2	62 15/16
H30481891	1 Door Hatch	30 x 48	30 x 48	46 1/2 x 56 1/2	5 1/2	73 3/16
H36361891	1 Door Hatch	36 x 36	36 x 36	52 1/2 x 44 1/2	5 1/2	68 13/16
H36481891	1 Door Hatch	36 x 48	36 x 48	52 1/2 x 56 1/2	5 1/2	77 1/8
H42421891	1 Door Hatch	42 x 42	42 x 42	58 1/2 x 50 1/2	5 1/2	77 5/16

### Double Grate, Double Cover Style

H30481991	2 Door Hatch	30 x 48	30 x 58	44 1/2 x 66 1/2	5 1/2	80
H30541991	2 Door Hatch	30 x 54	30 x 64	44 1/2 x 72 1/2	5 1/2	85 1/16
H36481991	2 Door Hatch	36 x 48	36 x 58	50 1/2 x 66 1/2	5 1/2	83 1/2
H36601991	2 Door Hatch	36 x 60	36 x 70	50 1/2 x 78 1/2	5 1/2	93 5/16
H42481991	2 Door Hatch	42 x 48	42 x 58	56 1/2 x 66 1/2	5 1/2	87 1/4
H48481991	2 Door Hatch	48 x 48	48 x 58	62 1/2 x 66 1/2	5 1/2	91 1/4
H48541991	2 Door Hatch	48 x 54	48 x 64	62 1/2 x 72 1/2	5 1/2	95 3/4
H48721991	2 Door Hatch	48 x 72	48 x 82	62 1/2 x 90 1/2	5 1/2	110
H60601991	2 Door Hatch	60 x 60	60 x 70	74 1/2 x 78 1/2	5 1/2	108 1/4
H48601991	2 Door Hatch	48 x 60	48 x 70	62 1/2 x 78 1/2	5 1/2	100 5/16
H60721991	2 Door Hatch	60 x 72	60 x 82	74 1/2 x 90 1/2	5 1/2	117 1/4

Note: All dimensions are in inches.



## ERMATIC® MODULAR COVERS

The ERMATIC Modular Cover system is a comprehensive and highly engineered range of access covers for a wide variety of underground services. This modular system can be customized to fit any underground vault dimension or cover configuration. The ERMATIC range leverages the global engineering and design experience within EJ, to enhance ergonomic design and security.

### Features/Options

- Pedestrian to airport rated (or EN124 Standards – B125, C250, D400, E600, F900)
- Wide range of cover sizes from 24" x 24" and larger
- Water resistant
- Security locking
- Available with hinged and spring loaded struts for assisted opening
- Ergonomic lift handles for opening
- Available with safety grates and/or safety railings
- Cover options: solid cover with LLLL® slip resistant tread, recessed for concrete infill or brick pavers, or cover with removable inner hatch/cover
- Available with PREMARK® anti-skid coating

### Project Applications

- Sewerage: inspection pits for sludge chambers, access shafts for large plants, etc.
- Telecommunications: cable jointing chambers, etc.
- Utility: lighting, signals, transformer pits, cable joint boxes, etc.

### Project Types

- Airports and ports
- Railways
- Tunnels
- Power stations
- Water treatment and purification plants
- Manufacturing plants
- Exhibition centers, leisure parks, stadiums, and other public arenas

The ERMATIC range of modular covers are produced in France.



**Modular Construction**—The use of modular elements gives a vast range of sizes. Frame elements (side frames and end plates) are assembled using bolts and aluminium joints to provide linear openings for even the longest ducts. Above clear opening spans of 47 3/16" (1200 mm), ERMATIC units use removable beams supported in boxes which are fixed to the frames. This allows the construction of units to suit the largest openings.

### Ultimate Protection

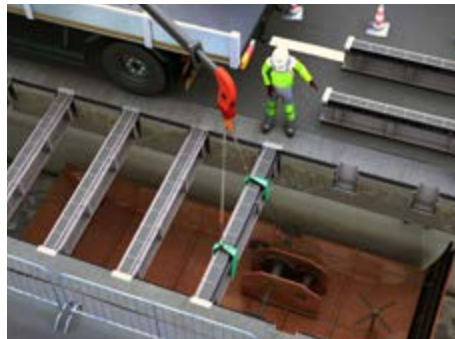
ERMATIC products assure protection against damage, debris or aggressive chemicals, and allow designers to conceal underground services.



1/2/3 covers unit



Continuous duct cover



Removable beams give unobstructed access to large vaults.



Modular design allows for infinite length to accommodate even the longest duct systems.

DUCTILE IRON HINGED HATCH ACCESS ASSEMBLY

Ductile iron access hatches have been designed for improved ergonomics, and are available in heavy duty and airport extra heavy duty applications.

On a cover that can weigh as much as 550 lbs, the lifting force required to open the cover is less than 35 lbs due to the uniquely designed mechanical strut.

The self-engaging safety bar provides added protection while the underground infrastructure is accessed, and safety grates can be specified for added fall through protection.



Features

- Ductile iron frame and cover
- Cover opens to 105°, safety catch and removal at 90°
- Self-engaging safety bar
- EON LOCK®
- MPIC® multi-tool pick bar
- Bolting

Options

- Mechanical lift assist (standard feature for airport rated models)
- Top and bottom flange designs
- Safety grate
- INFRA-RISER® adjustment riser
- Forming skirt

Wide Availability of Sizes

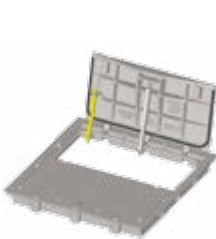
Shown below are just a sample of the various cover openings and sizes. See the table below for the full range of available clear opening sizes and load ratings.



8192 hinged hatch  
24" x 36"



8198 hinged hatch  
with dual lift assist  
48" x 48"



8218 double assembly  
48" x 48"



8196 double assembly  
30" x 62"



8197 grate option  
36" x 36"

Ductile Hinged Hatch Clear Opening Options

Clear Opening Size	Airport Extra Heavy Duty Series No.	Heavy Duty Series No.
24 x 24	8195	8215
24 x 36	8192	8212
30 x 30	8196	8216
30 x 62	8196—Double	8216—Double
36 x 36	8197	8217
36 x 74	—	8217—Double
48 x 48	8198	—
48 x 48	—	8218—Double

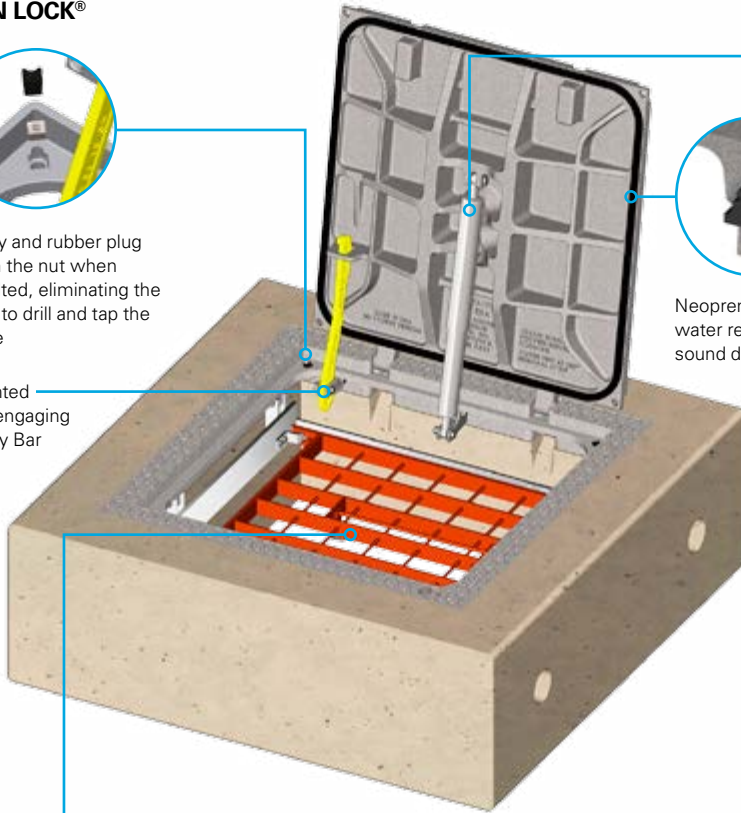
Note: All dimensions are in inches.



**EON LOCK®**

Cavity and rubber plug retain the nut when unbolted, eliminating the need to drill and tap the frame

Patented Self-engaging Safety Bar

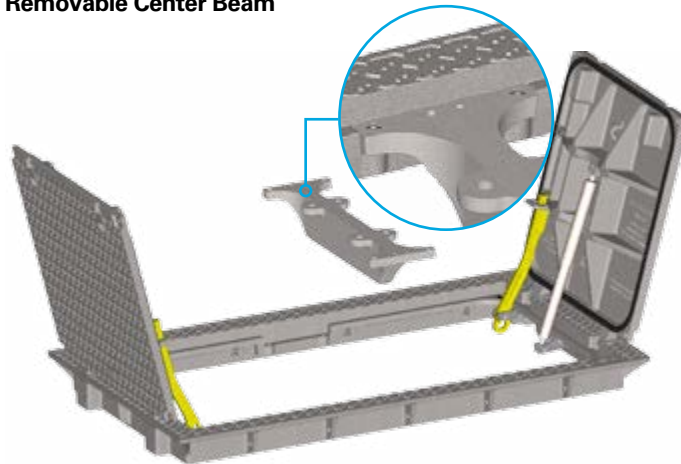


Neoprene gasket for water resistance and sound dampening

**Optional Safety Grate**

Provides additional safety features

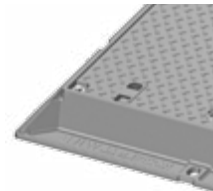
- Doors cannot be closed unless the fall through protection has been put back in place (protecting the next operator).
- Visual inspections and limited maintenance can be done while safety grate is left in place.
- Orange safety grates create a visual barrier around the pit; an orange epoxy coating promotes an awareness of the hazard and provides a durable finish.
- Grate can be locked independently of the hatch, adding another level of security when needed.

**Removable Center Beam**

Removable center beam provides a much greater clear opening access on several double hatch models. Removal/replacement is simple with 4 bolts securing the beam to the frame.

**Frame Options**

Top flange frame

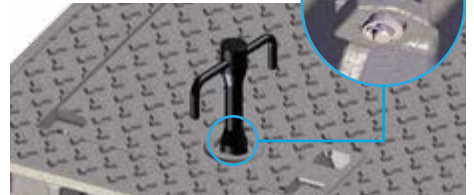


Bottom flange frame

**Lift Assist**

Lift Assist is a corrosion-resistant stainless steel mechanical spring strut. The rugged design is clean and maintenance free. The strut takes up less space in the clear opening than a traditional spring assist. It is fully self-contained, protecting coils from exposure to the elements.

Made without internal gases or seals, the struts have an effective operating temperature range of -30° F to 400° F. The durability has been tested at over 150,000 cycles.

**Optional Cam Lock**

Security cam lock and wrench shown. Wrench is only removable when cover is in the locked position.



Visit our YouTube Channel for videos on this and other products at [www.youtube.com/AccessInfrastructure](http://www.youtube.com/AccessInfrastructure)



ejco.com  
800 626 4653



#### Americas

**800 626 4653**

231 536 2261

#### EMEA

Europe, Middle East  
and Africa

**+33 (0)344 08 28 00**

#### Asia-Pacific

**+61 (0)7 3216 5000**

#### EJ

301 Spring Street  
PO Box 439  
East Jordan, MI 49727  
800 626 4653  
231 536 2261  
us.sales@ejco.com

Registered Mark(s)

