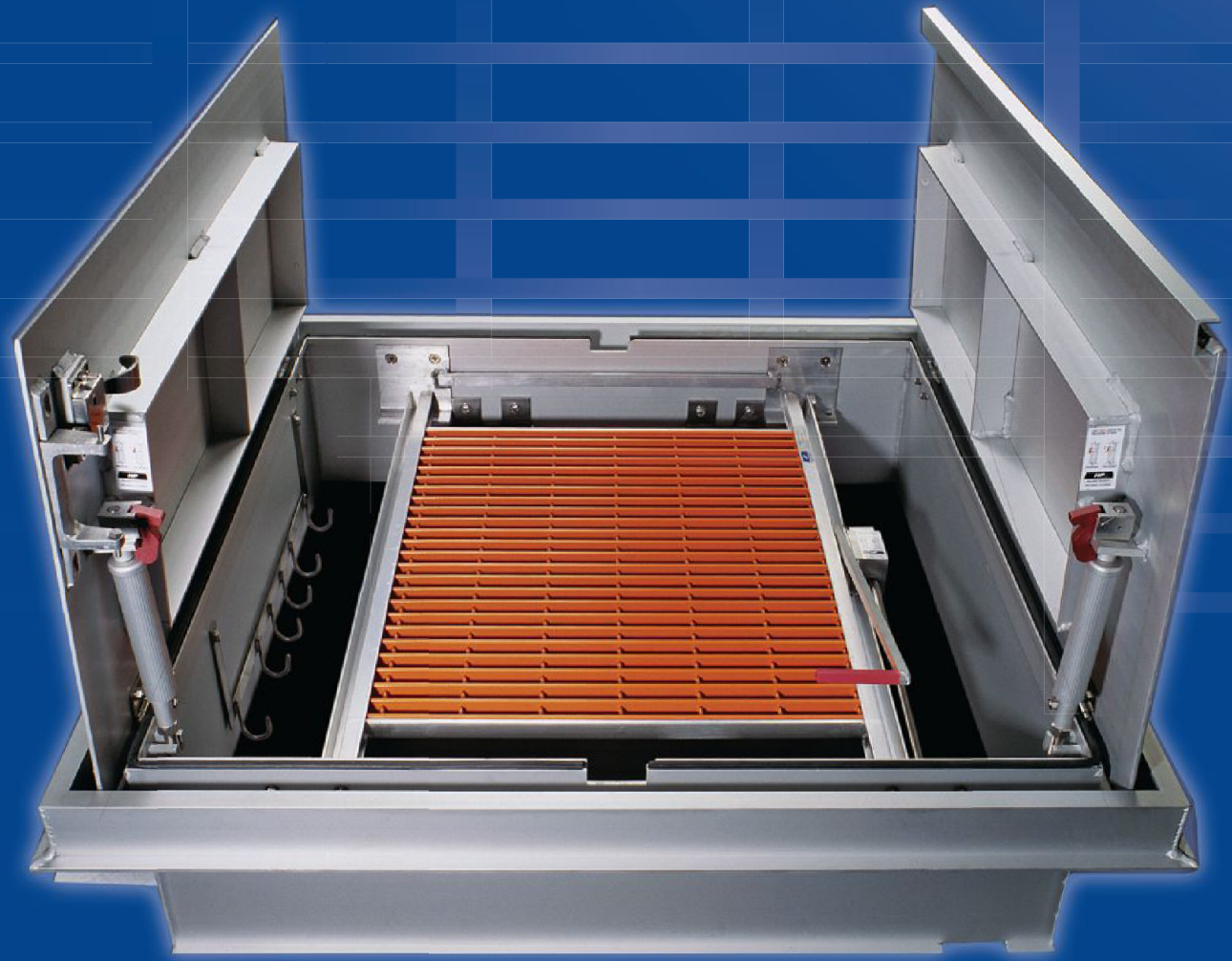




PRODUCT CATALOG



DEBRIS BASKETS

SLIDE AND STOP GATES

PORTABLE HOISTS

MIXER MASTS

LADDERS

TELESCOPING VALVES



HP

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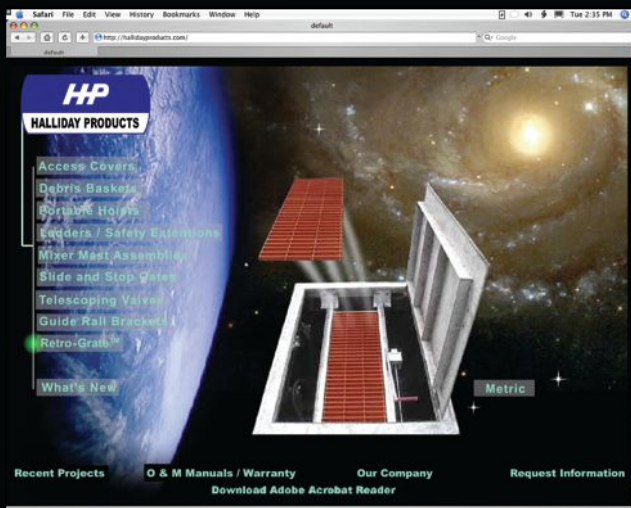
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- Copy friendly submittal drawings
- Complete catalog of all products
- Retro-Grate™ price quotation form

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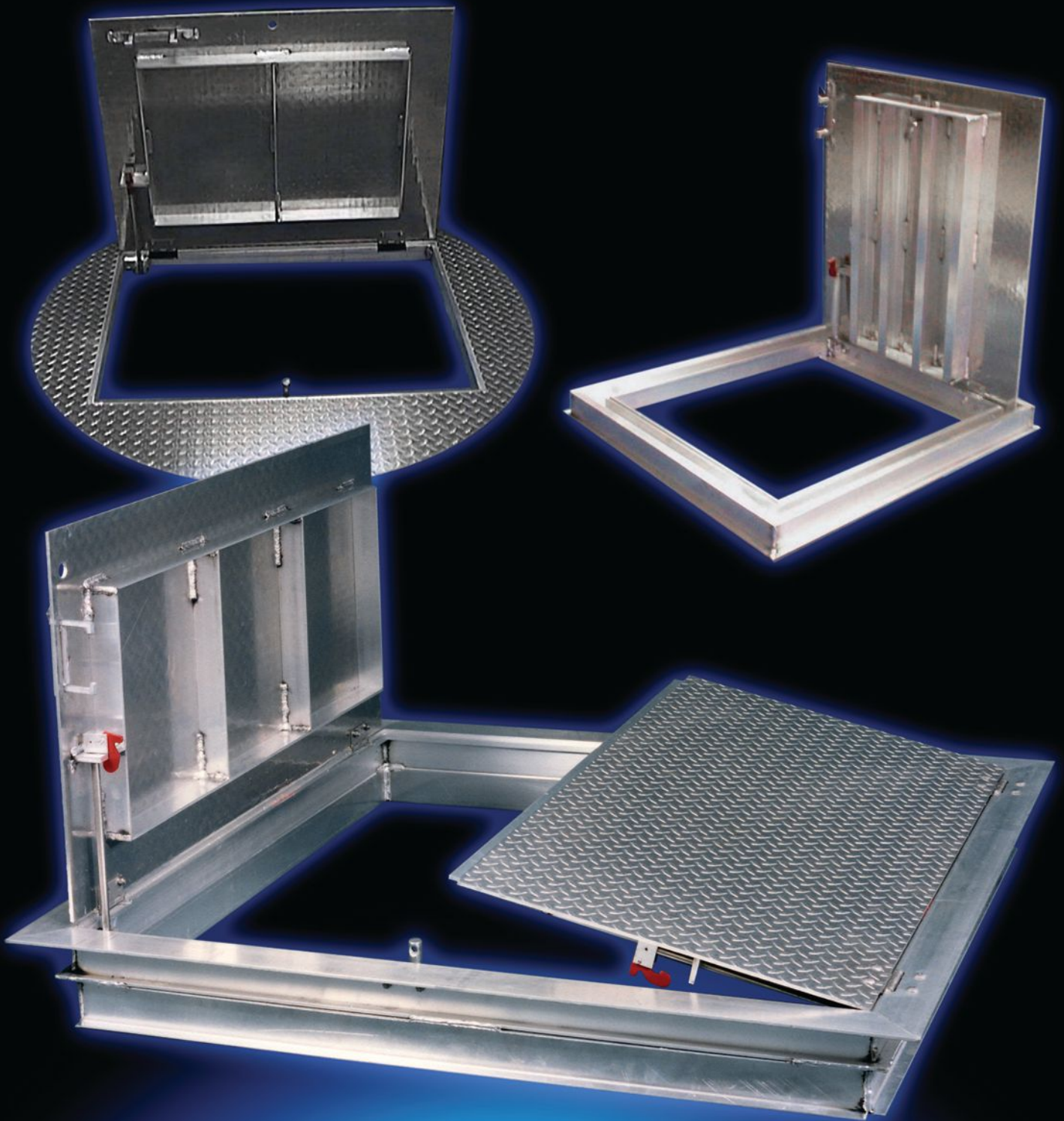
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Access Door Standard Features

	W1S	W2S	W1C	W2C	S1S	S2S	H1C	H2C	W1R	W2R	S1R	S2R	H1W	H2W	C1R	R1R	H1R	H2R	F1R
Lifetime Guarantee	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Auto Lock T316 SS Hold Open Arm	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
316 Stainless Steel Hinges	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
316 SS Slam Lock W/Removable Key	●	●	●	●	●	●	●	●					●	●			●	●	
Non Corrosive Locking Bar									●	●	●	●			●	●			
Padlock Lug																			●
Single Leaf Construction	●		●		●		●		●		●		●		●	●	●		●
Double Leaf Construction		●		●		●		●		●		●		●				●	
300 lb per sq ft Load Rating	●	●	●	●	●	●			●	●	●	●			●	●			
625 per square ft																			●
H2O Load Rating							●	●					●	●			●	●	
Extruded Aluminum Channel Frame	●	●	●	●			●	●	●	●			●	●					
Extruded Aluminum Angle Frame					●	●					●	●				●	●	●	●
Recessed Lifting Handle	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Stainless Steel Spring Assist	●	●	●	●	●	●	●	●					●	●			●	●	
Built In Neoprene Gasket	●	●	●	●	●	●													●
Bituminous Coating	●	●	●	●	●	●													
1½" NPT Coupling	●	●	●	●			●	●	●	●			●	●					
Stainless Steel Pressure Locks																			●
Maximum Allowable Deflection of 1/150 of the Span	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Access Doors and Options



Series W1S Access Door



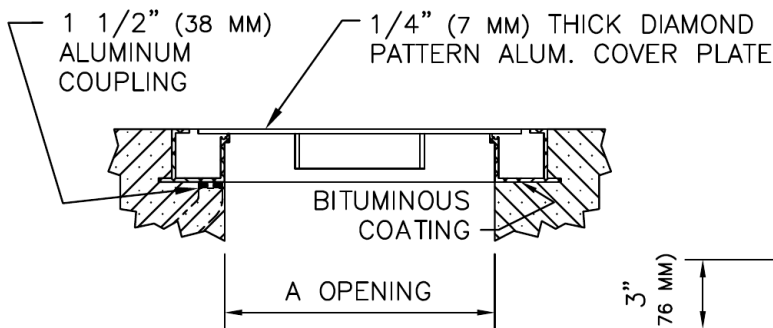
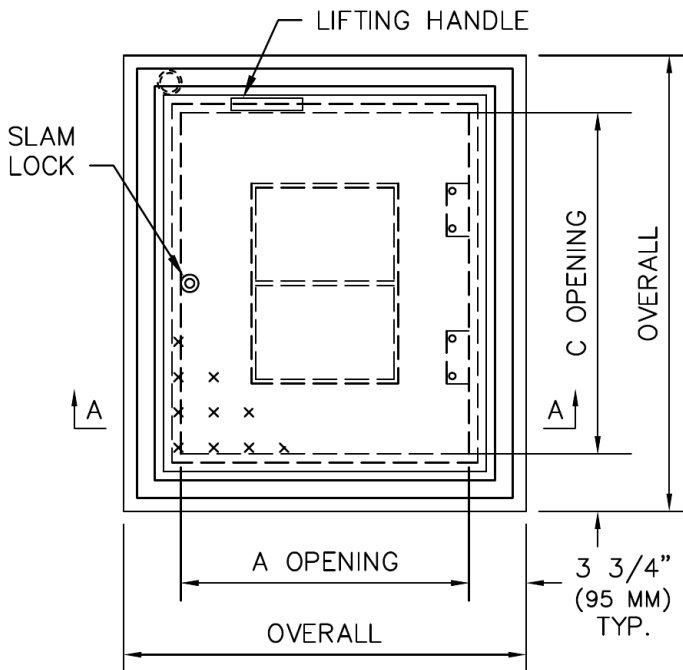
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE GASKET TO LIMIT THE TRANSMISSION OF ODORS
- NON-OZONE DEPLETING BITUMINOUS COATING
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

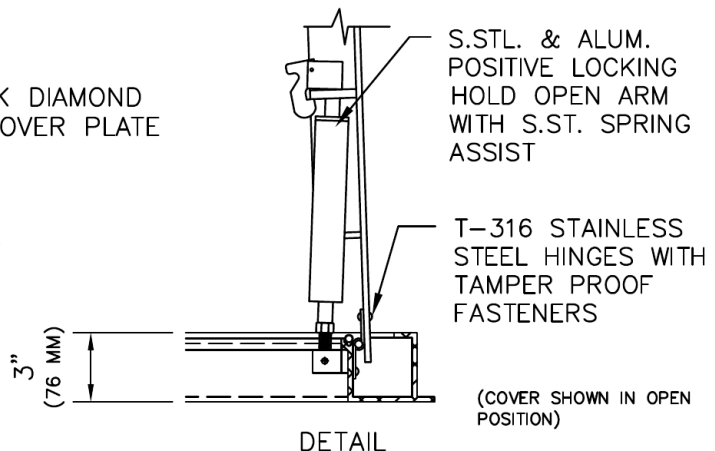
(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)

STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W1S2424	24 (610)	24 (610)	46 (20)
	W1S2430	24 (610)	30 (762)	51 (23)
	W1S2436	24 (610)	36 (914)	61 (28)
	W1S2442	24 (610)	42 (1067)	77 (35)
	W1S2448	24 (610)	48 (1219)	85 (39)
	W1S3030	30 (762)	30 (762)	62 (28)
	W1S3036	30 (762)	36 (914)	69 (31)
	W1S3042	30 (762)	42 (1067)	77 (35)
	W1S3048	30 (762)	48 (1219)	85 (39)
	W1S3054	30 (762)	54 (1372)	99 (45)
	W1S3060	30 (762)	60 (1524)	102 (46)
	W1S3636	36 (914)	36 (914)	78 (35)
	W1S3642	36 (914)	42 (1067)	89 (40)
	W1S3648	36 (914)	48 (1219)	97 (44)
	W1S3654	36 (914)	54 (1372)	107 (49)
	W1S3660	36 (914)	60 (1524)	116 (53)
	W1S3666	36 (914)	66 (1676)	126 (57)
	W1S3672	36 (914)	72 (1829)	135 (61)
	W1S4242	42 (1067)	42 (1067)	108 (49)



SECTION A-A



DETAIL

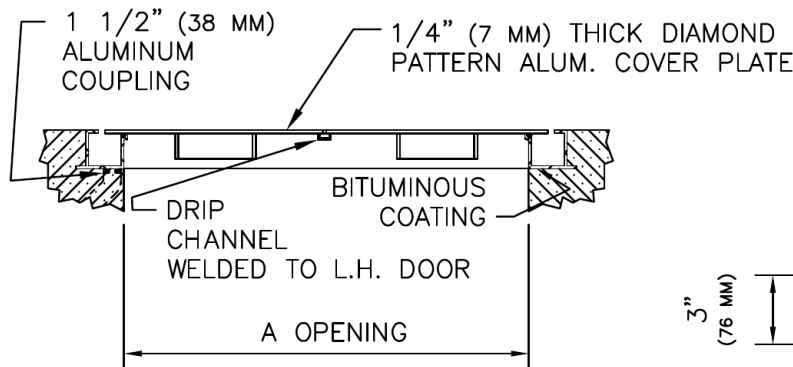
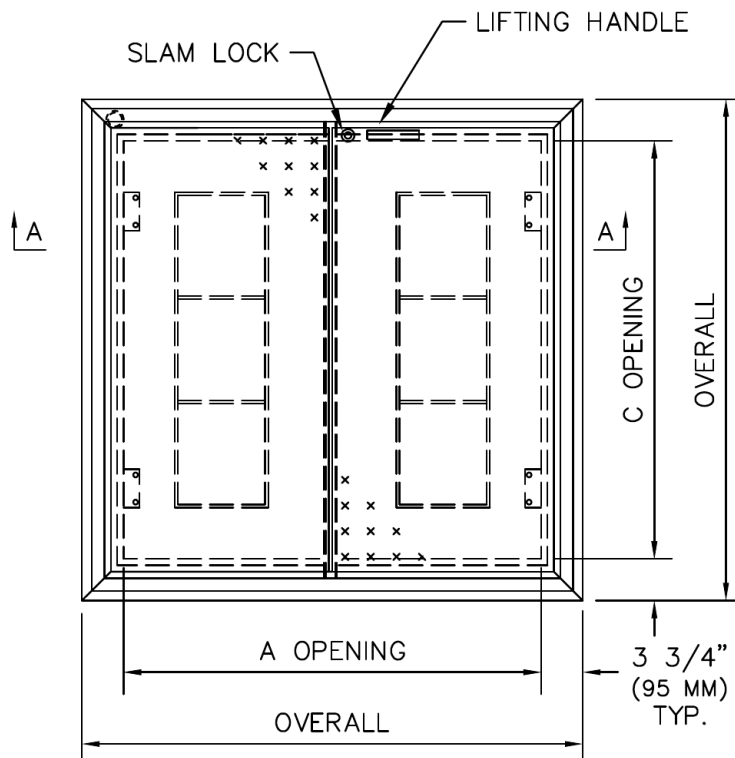
Series W2S Access Door



STANDARD FEATURES:

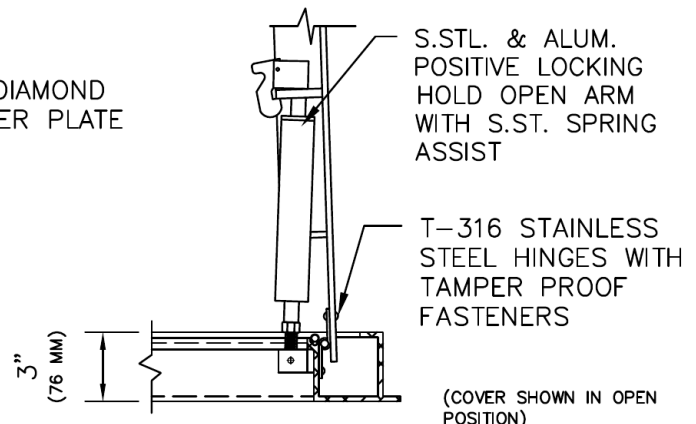
- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- DOUBLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING
(1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)



SECTION A-A

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W2S4242	42 (1067)	42 (1067)	108 (48)
	W2S4842	48 (1219)	42 (1067)	115 (52)
	W2S4848	48 (1219)	48 (1219)	126 (57)
	W2S5442	54 (1372)	42 (1067)	124 (56)
	W2S5448	54 (1372)	48 (1219)	136 (62)
	W2S5454	54 (1372)	54 (1372)	149 (68)
	W2S6030	60 (1524)	30 (762)	102 (46)
	W2S6036	60 (1524)	36 (914)	116 (53)
	W2S6042	60 (1524)	42 (1067)	132 (60)
	W2S6048	60 (1524)	48 (1219)	148 (67)
	W2S6054	60 (1524)	54 (1372)	162 (73)
	W2S6060	60 (1524)	60 (1524)	177 (80)
	W2S6636	66 (1676)	36 (914)	126 (57)
	W2S6648	66 (1676)	48 (1219)	160 (73)
	W2S7236	72 (1829)	36 (914)	135 (61)
	W2S7242	72 (1829)	42 (1067)	154 (70)
	W2S7248	72 (1829)	48 (1219)	171 (78)
	W2S7254	72 (1829)	54 (1372)	188 (85)
	W2S7260	72 (1829)	60 (1524)	203 (92)



DETAIL

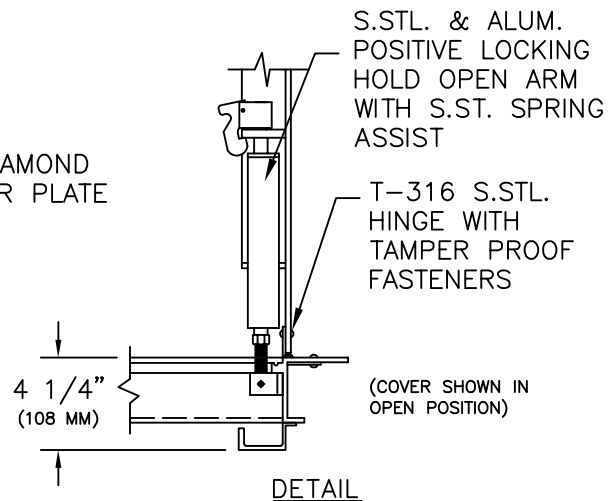
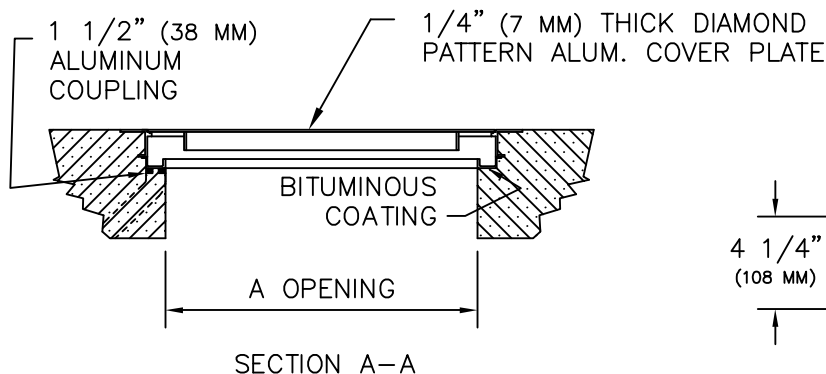
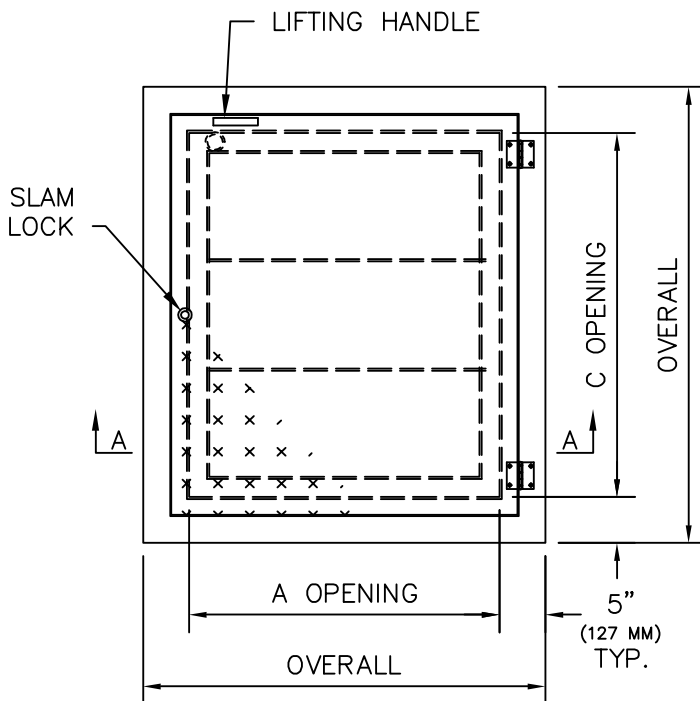
Series W1C Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W1C2424	24 (610)	24 (610)	57 (26)
	W1C2430	24 (610)	30 (762)	64 (29)
	W1C2436	24 (610)	36 (914)	72 (33)
	W1C2442	24 (610)	42 (1067)	80 (36)
	W1C2448	24 (610)	48 (1219)	88 (40)
	W1C3030	30 (762)	30 (762)	73 (33)
	W1C3036	30 (762)	36 (914)	82 (37)
	W1C3042	30 (762)	42 (1067)	90 (41)
	W1C3048	30 (762)	48 (1219)	100 (45)
	W1C3054	30 (762)	54 (1372)	108 (49)
	W1C3060	30 (762)	60 (1524)	116 (53)
	W1C3636	36 (914)	36 (914)	91 (41)
	W1C3642	36 (914)	42 (1067)	101 (46)
	W1C3648	36 (914)	48 (1219)	111 (50)
	W1C3654	36 (914)	54 (1372)	120 (54)
	W1C3660	36 (914)	60 (1524)	130 (59)
	W1C3666	36 (914)	66 (1676)	140 (64)
	W1C3672	36 (914)	72 (1829)	150 (68)
	W1C4242	42 (1067)	42 (1067)	113 (51)



Series W2C Access Door

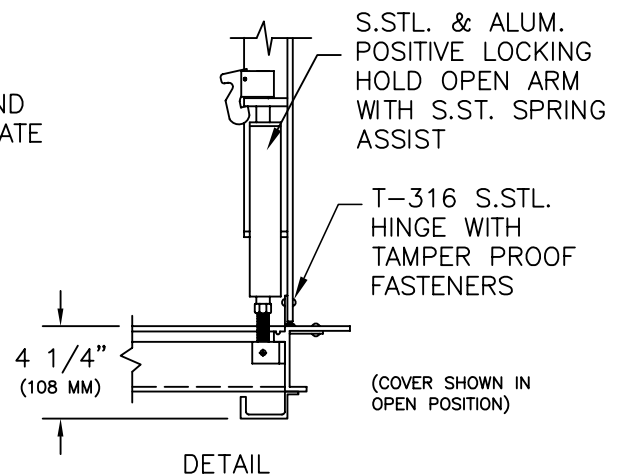
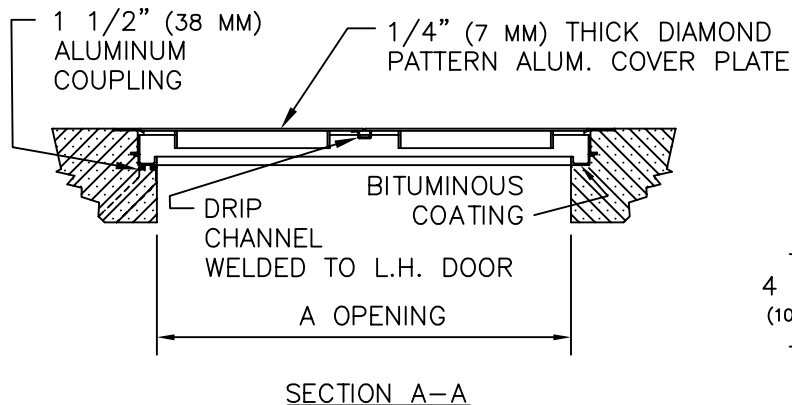
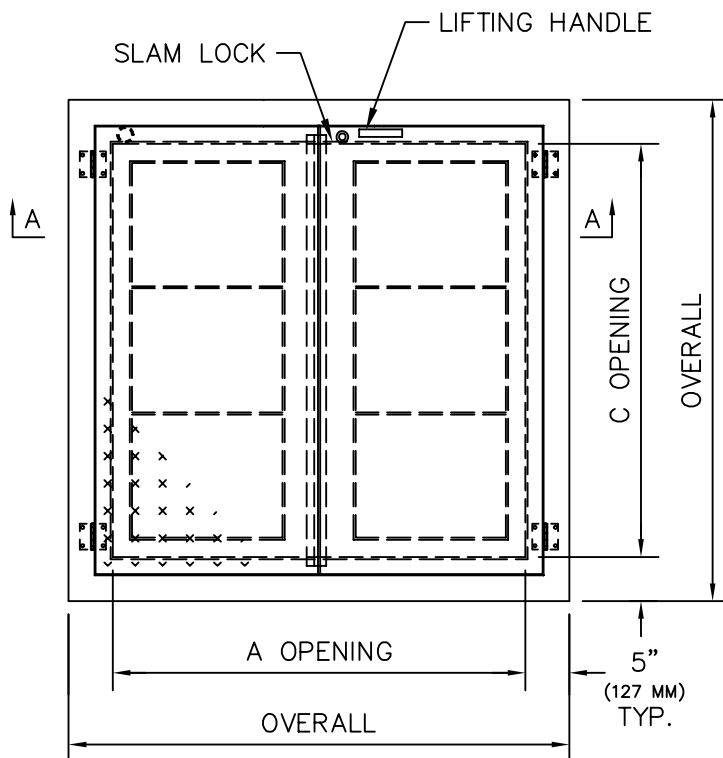


STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- DOUBLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W2C4242	42 (1067)	42 (1067)	119 (54)
	W2C4842	48 (1219)	42 (1067)	130 (59)
	W2C4848	48 (1219)	48 (1219)	142 (64)
	W2C5442	54 (1372)	42 (1067)	141 (64)
	W2C5448	54 (1372)	48 (1219)	154 (70)
	W2C5454	54 (1372)	54 (1372)	166 (75)
	W2C6030	60 (1524)	30 (762)	122 (55)
	W2C6036	60 (1524)	36 (914)	135 (61)
	W2C6042	60 (1524)	42 (1067)	151 (68)
	W2C6048	60 (1524)	48 (1219)	165 (75)
	W2C6054	60 (1524)	54 (1372)	179 (81)
	W2C6060	60 (1524)	60 (1524)	195 (88)
	W2C6636	66 (1676)	36 (914)	145 (66)
	W2C6648	66 (1676)	48 (1219)	177 (80)
	W2C7236	72 (1829)	36 (914)	154 (70)
	W2C7242	72 (1829)	42 (1067)	173 (78)
	W2C7248	72 (1829)	48 (1219)	188 (85)
	W2C7254	72 (1829)	54 (1372)	204 (92)
	W2C7260	72 (1829)	60 (1524)	222 (101)



Series S1S Access Door



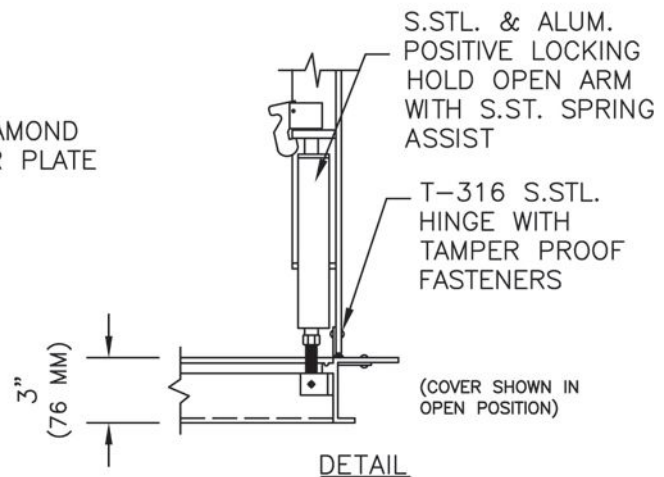
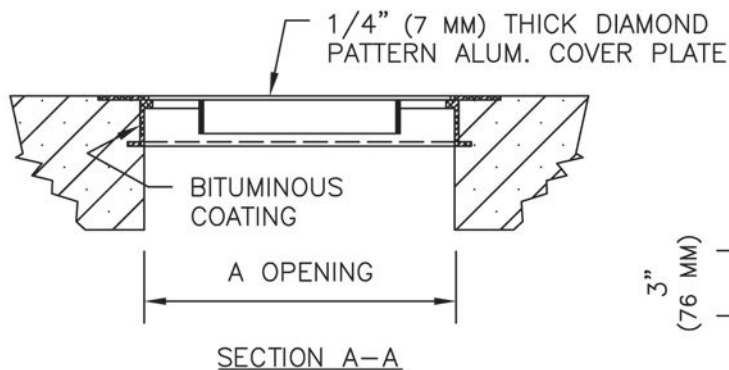
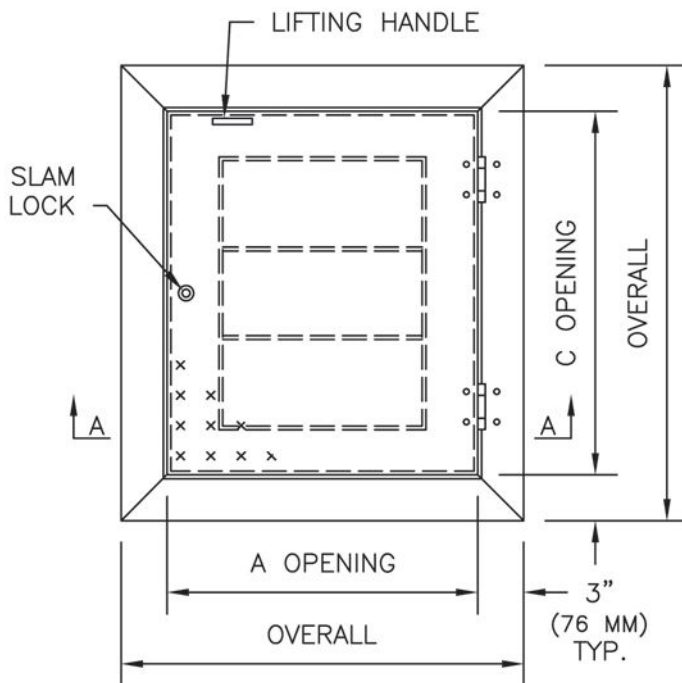
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)

STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	S1S2424	24 (610)	24 (610)	37 (17)
	S1S2430	24 (610)	30 (762)	42 (19)
	S1S2436	24 (610)	36 (914)	48 (22)
	S1S2442	24 (610)	42 (1067)	55 (25)
	S1S2448	24 (610)	48 (1219)	61 (28)
	S1S3030	30 (762)	30 (762)	49 (22)
	S1S3036	30 (762)	36 (914)	57 (26)
	S1S3042	30 (762)	42 (1067)	64 (29)
	S1S3048	30 (762)	48 (1219)	71 (32)
	S1S3054	30 (762)	54 (1372)	79 (36)
	S1S3060	30 (762)	60 (1524)	87 (39)
	S1S3636	36 (914)	36 (914)	65 (25)
	S1S3642	36 (914)	42 (1067)	79 (36)
	S1S3648	36 (914)	48 (1219)	85 (39)
	S1S3654	36 (914)	54 (1372)	91 (41)
	S1S3660	36 (914)	60 (1524)	100 (45)
	S1S3666	36 (914)	66 (1676)	109 (49)
	S1S3672	36 (914)	72 (1829)	116 (53)
	S1S4242	42 (1067)	42 (1067)	93 (42)



Series S2S Access Door



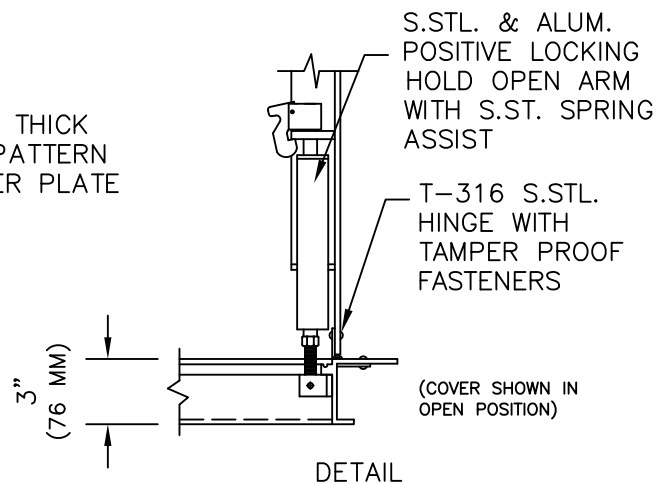
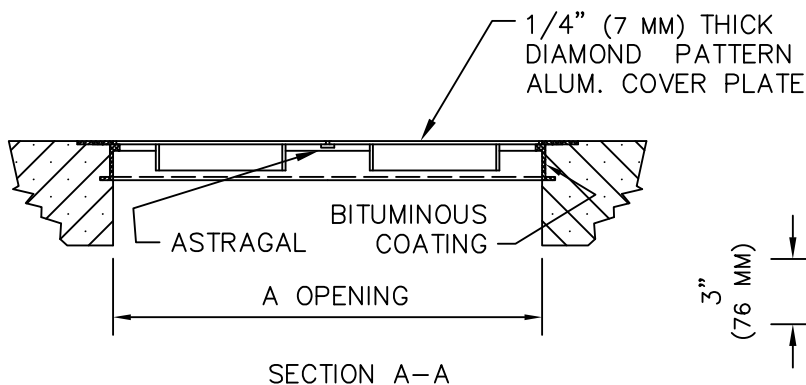
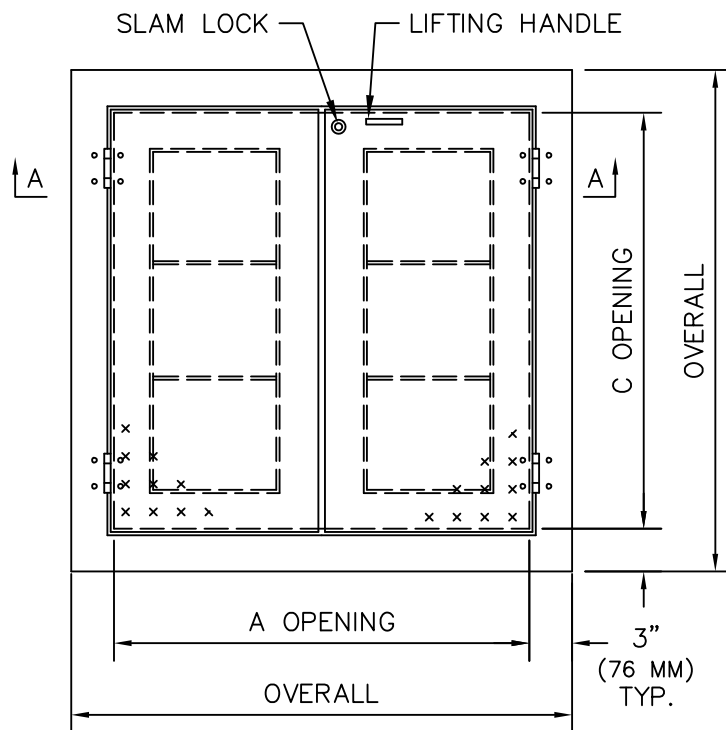
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- BUILT-IN NEOPRENE CUSHION/GASKET
- NON-OZONE DEPLETING BITUMINOUS COATING
- DOUBLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)

STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	S2S4242	42 (1067)	42 (1067)	93 (42)
	S2S4842	48 (1219)	42 (1067)	99 (45)
	S2S4848	48 (1219)	48 (1219)	110 (50)
	S2S5442	54 (1372)	42 (1067)	108 (49)
	S2S5448	54 (1372)	48 (1219)	119 (54)
	S2S5454	54 (1372)	54 (1372)	127 (58)
	S2S6030	60 (1524)	30 (762)	87 (39)
	S2S6036	60 (1524)	36 (914)	100 (45)
	S2S6042	60 (1524)	42 (1067)	115 (52)
	S2S6048	60 (1524)	48 (1219)	130 (59)
	S2S6054	60 (1524)	54 (1372)	143 (65)
	S2S6060	60 (1524)	60 (1524)	158 (72)
	S2S6636	66 (1676)	36 (914)	109 (49)
	S2S6648	66 (1676)	48 (1219)	141 (64)
	S2S7236	72 (1829)	36 (914)	116 (53)
	S2S7242	72 (1829)	42 (1067)	135 (61)
	S2S7248	72 (1829)	48 (1219)	151 (68)
	S2S7254	72 (1829)	54 (1372)	168 (76)
	S2S7260	72 (1829)	60 (1524)	178 (81)



Series W1R Access Door

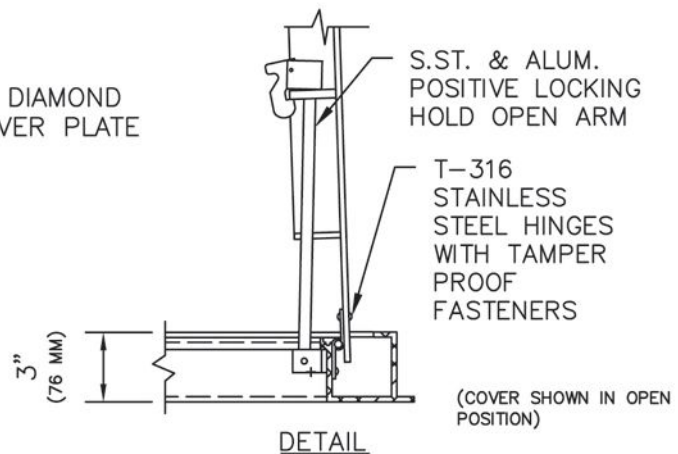
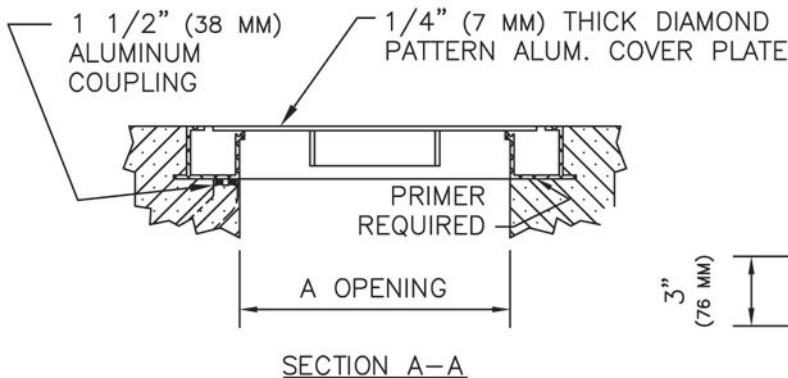
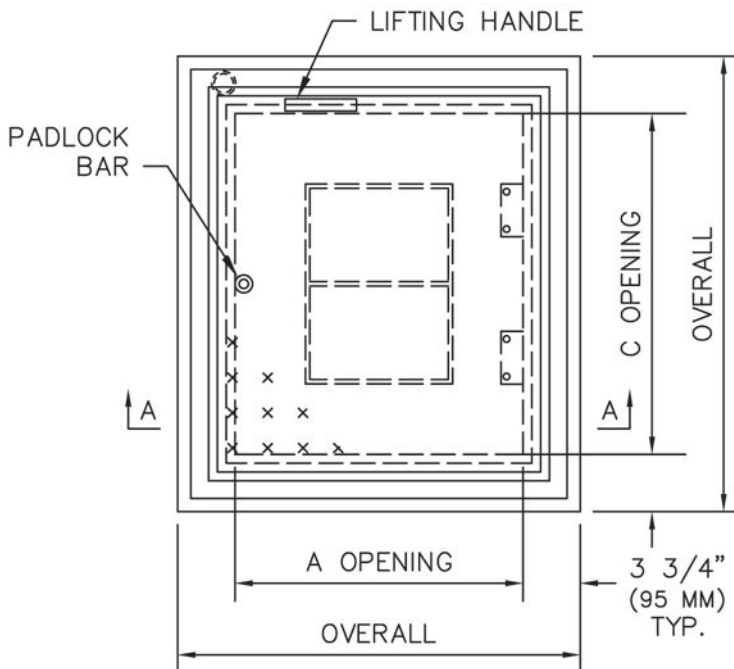


STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE LOCKING BAR
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W1R2424	24 (610)	24 (610)	46 (20)
	W1R2430	24 (610)	30 (762)	51 (23)
	W1R2436	24 (610)	36 (914)	61 (28)
	W1R2442	24 (610)	42 (1067)	77 (35)
	W1R2448	24 (610)	48 (1219)	85 (39)
	W1R3030	30 (762)	30 (762)	62 (28)
	W1R3036	30 (762)	36 (914)	69 (31)
	W1R3042	30 (762)	42 (1067)	77 (35)
	W1R3048	30 (762)	48 (1219)	85 (39)
	W1R3054	30 (762)	54 (1372)	99 (45)
	W1R3060	30 (762)	60 (1524)	102 (46)
	W1R3636	36 (914)	36 (914)	78 (35)
	W1R3642	36 (914)	42 (1067)	89 (40)
	W1R3648	36 (914)	48 (1219)	97 (44)
	W1R3654	36 (914)	54 (1372)	107 (49)
	W1R3660	36 (914)	60 (1524)	116 (53)
	W1R3666	36 (914)	66 (1676)	126 (57)
	W1R3672	36 (914)	72 (1829)	135 (61)
	W1R4242	42 (1067)	42 (1067)	108 (49)



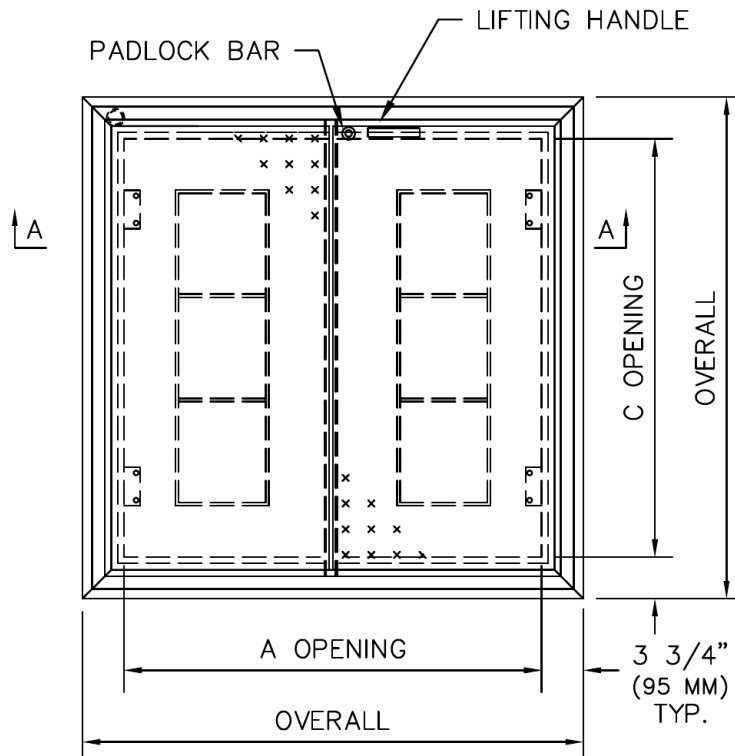
Series W2R Access Door



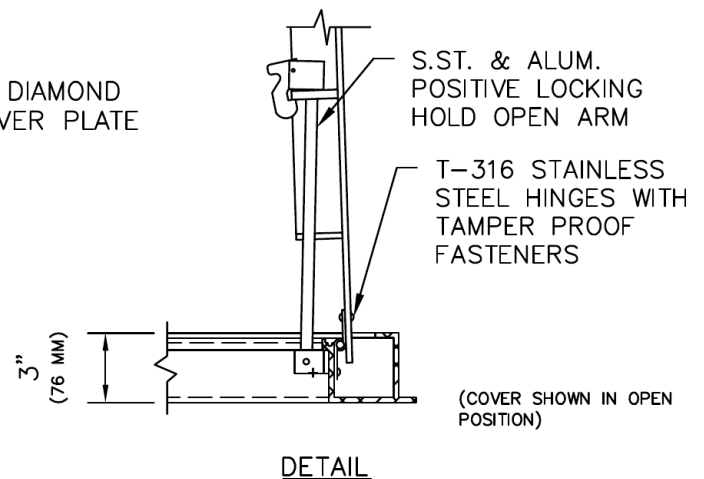
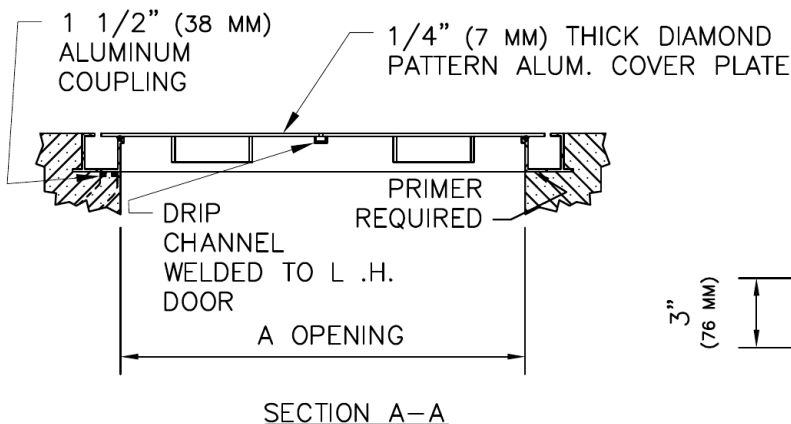
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE LOCKING BAR
- DOUBLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)



STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	W2R4242	42 (1067)	42 (1067)	108 (48)
	W2R4842	48 (1219)	42 (1067)	115 (52)
	W2R4848	48 (1219)	48 (1219)	126 (57)
	W2R5442	54 (1372)	42 (1067)	124 (56)
	W2R5448	54 (1372)	48 (1219)	136 (62)
	W2R5454	54 (1372)	54 (1372)	149 (68)
	W2R6030	60 (1524)	30 (762)	102 (46)
	W2R6036	60 (1524)	36 (914)	116 (53)
	W2R6042	60 (1524)	42 (1067)	132 (60)
	W2R6048	60 (1524)	48 (1219)	148 (67)
	W2R6054	60 (1524)	54 (1372)	162 (73)
	W2R6060	60 (1524)	60 (1524)	177 (80)
	W2R6636	66 (1676)	36 (914)	126 (57)
	W2R6648	66 (1676)	48 (1219)	160 (73)
	W2R7236	72 (1829)	36 (914)	135 (61)
	W2R7242	72 (1829)	42 (1067)	154 (70)
	W2R7248	72 (1829)	48 (1219)	171 (78)
	W2R7254	72 (1829)	54 (1372)	188 (85)
	W2R7260	72 (1829)	60 (1524)	203 (92)



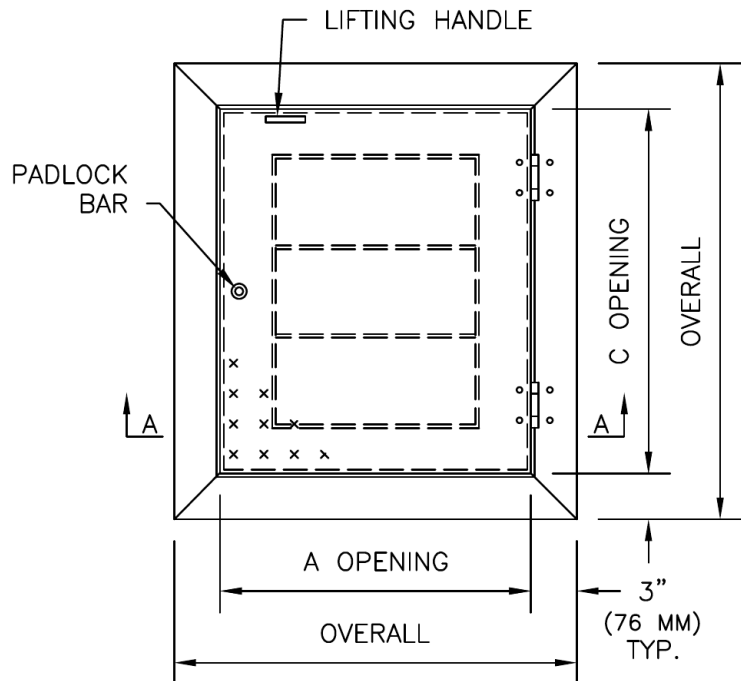
Series S1R Access Door



STANDARD FEATURES:

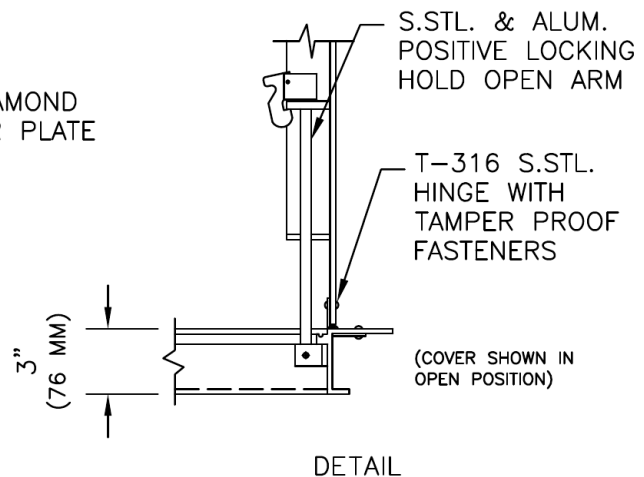
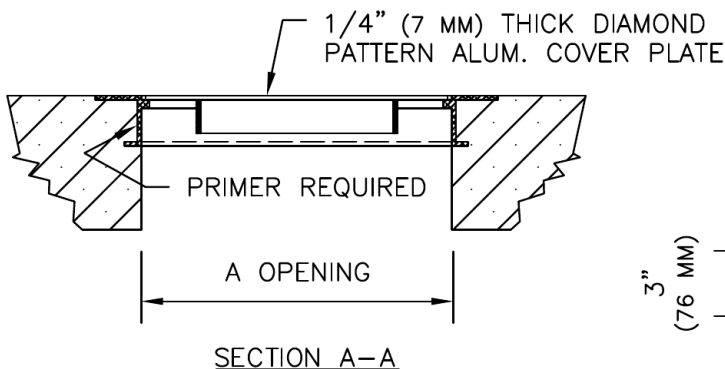
- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE PADLOCK BAR
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)



STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	S1R2424	24 (610)	24 (610)	37 (17)
	S1R2430	24 (610)	30 (762)	42 (19)
	S1R2436	24 (610)	36 (914)	48 (22)
	S1R2442	24 (610)	42 (1067)	55 (25)
	S1R2448	24 (610)	48 (1219)	61 (28)
	S1R3030	30 (762)	30 (762)	49 (22)
	S1R3036	30 (762)	36 (914)	57 (26)
	S1R3042	30 (762)	42 (1067)	64 (29)
	S1R3048	30 (762)	48 (1219)	71 (32)
	S1R3054	30 (762)	54 (1372)	79 (36)
	S1R3060	30 (762)	60 (1524)	87 (39)
	S1R3636	36 (914)	36 (914)	65 (25)
	S1R3642	36 (914)	42 (1067)	79 (36)
	S1R3648	36 (914)	48 (1219)	85 (39)
	S1R3654	36 (914)	54 (1372)	91 (41)
	S1R3660	36 (914)	60 (1524)	100 (45)
	S1R3666	36 (914)	66 (1676)	109 (49)
	S1R3672	36 (914)	72 (1829)	116 (53)
	S1R4242	42 (1067)	42 (1067)	93 (42)



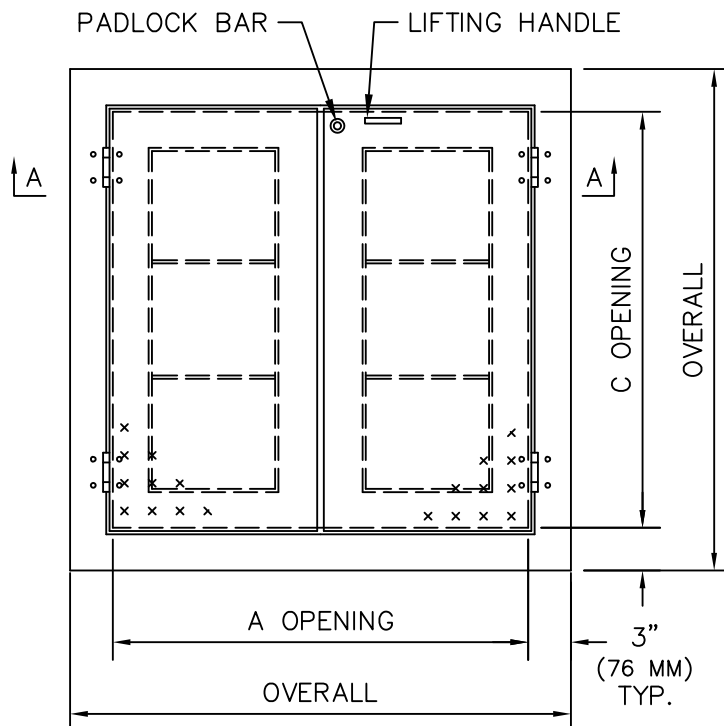
Series S2R Access Door



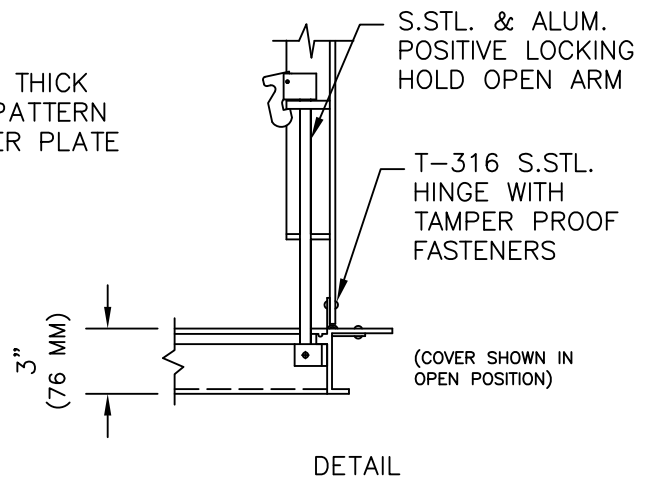
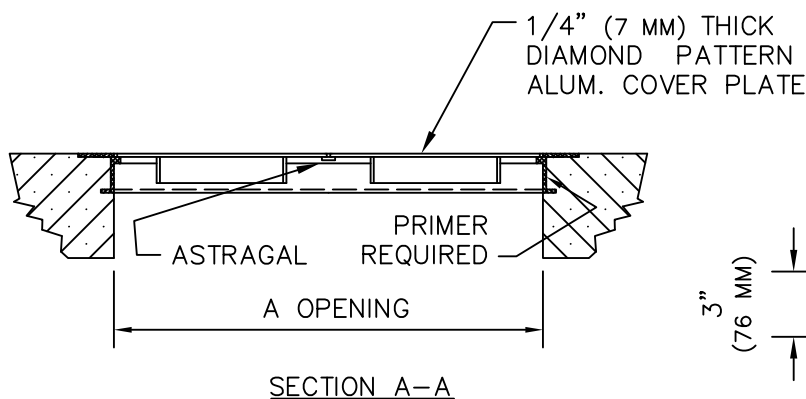
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE PADLOCK BAR
- DOUBLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

(SEE WEBSITE FOR AVAILABLE STAINLESS STEEL ACCESS DOOR MODELS AND SIZES.)



STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	S2R4242	42 (1067)	42 (1067)	93 (42)
	S2R4842	48 (1219)	42 (1067)	99 (45)
	S2R4848	48 (1219)	48 (1219)	110 (50)
	S2R5442	54 (1372)	42 (1067)	108 (49)
	S2R5448	54 (1372)	48 (1219)	119 (54)
	S2R5454	54 (1372)	54 (1372)	127 (58)
	S2R6030	60 (1524)	30 (762)	87 (39)
	S2R6036	60 (1524)	36 (914)	100 (45)
	S2R6042	60 (1524)	42 (1067)	115 (52)
	S2R6048	60 (1524)	48 (1219)	130 (59)
	S2R6054	60 (1524)	54 (1372)	143 (65)
	S2R6060	60 (1524)	60 (1524)	158 (72)
	S2R6636	66 (1676)	36 (914)	109 (49)
	S2R6648	66 (1676)	48 (1219)	141 (64)
	S2R7236	72 (1829)	36 (914)	116 (53)
	S2R7242	72 (1829)	42 (1067)	135 (61)
	S2R7248	72 (1829))	48 (1219)	151 (68)
	S2R7254	72 (1829)	54 (1372)	168 (76)
	S2R7260	72 (1829)	60 (1524)	178 (81)



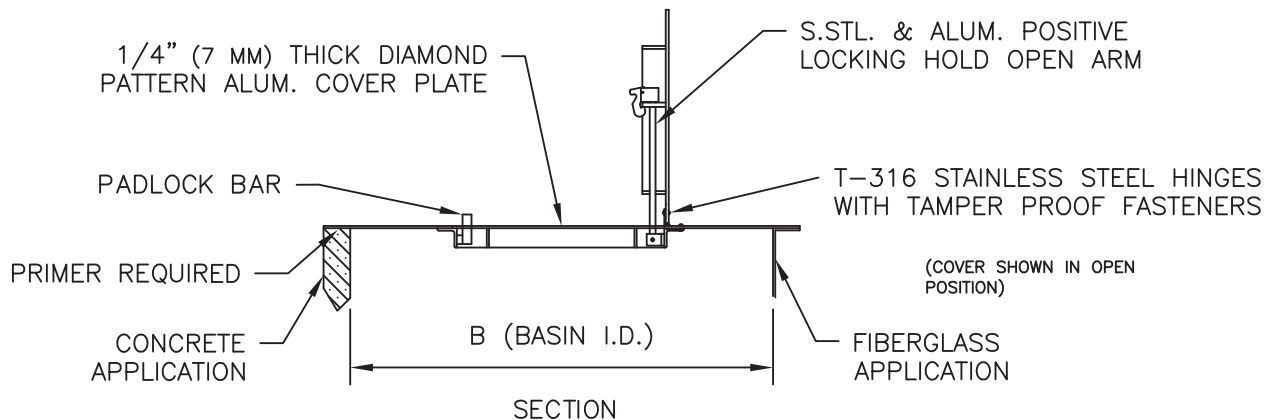
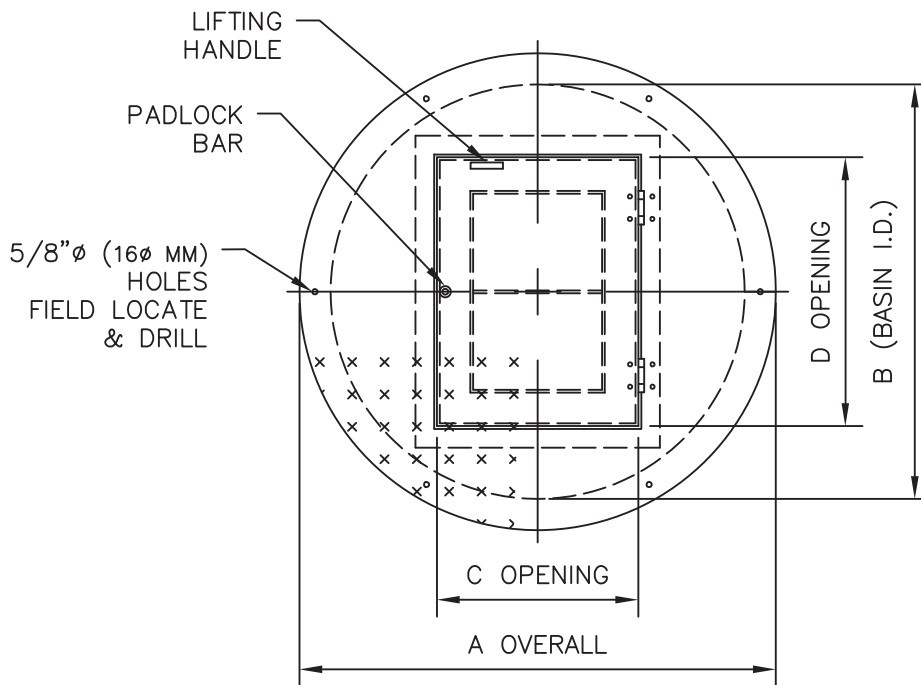
Series C1R Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE PADLOCK LOCKING BAR
- VENT COUPLING ON REQUEST
- LARGER SIZES AVAILABLE FOR CONCRETE APPLICATIONS
- SINGLE LEAF CONSTRUCTION
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- RECESSED HANDLE
- LIFETIME GUARANTEE

STANDARD SIZES						
QTY.	MODEL NO.	A DIM. INCHES (MM)	B DIM. INCHES (MM)	C DIM. INCHES (MM)	D DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	C1R40	40 (1016)	36 (914)			45 (20)
	C1R52	52 (1320)	48 (1219)			80 (36)
	C1R64	64 (1626)	60 (1524)			125 (57)
	C1R76	76 (1930)	72 (1829)			180 (82)



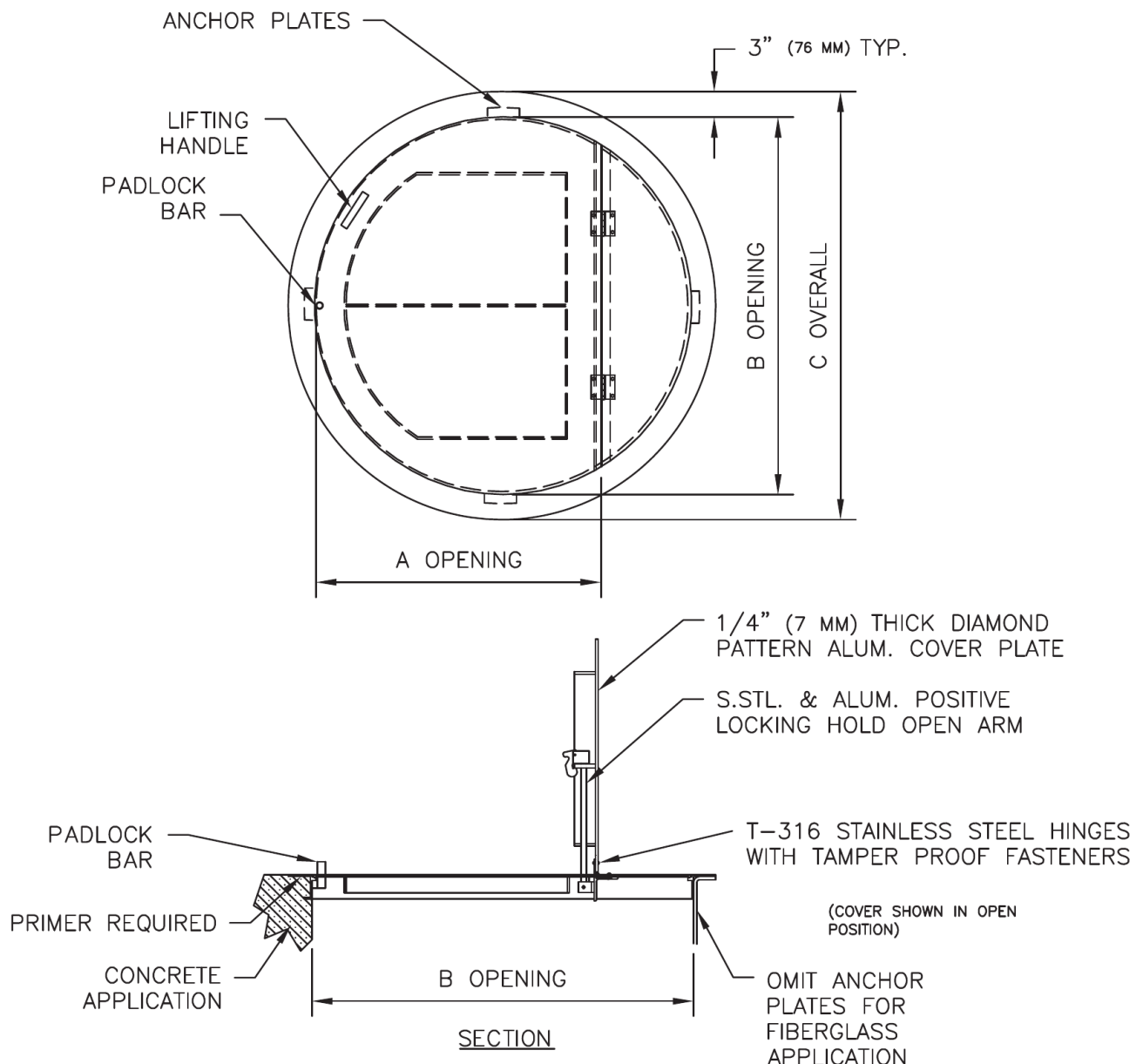
Series R1R Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- NON-CORROSIVE LOCKING BAR
- SINGLE LEAF CONSTRUCTION FOR MAXIMUM ACCESS
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- ANCHOR PLATES (ORDER WITHOUT FOR FIBERGLASS OR DROP-IN INSTALLATIONS)
- LIFETIME GUARANTEE

STANDARD SIZES					
QTY.	MODEL NO.	A DIM. INCHES (MM)	B DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	R1R36	24 (610)	35 (890)	41 (1041)	62 (28)
	R1R48	32 (813)	47 (1194)	53 (1346)	86 (39)
	R1R60	40 (1016)	59 (1499)	65 (1651)	136 (62)
	R1R72	48 (1219)	71 (1803)	77 (1956)	175 (79)

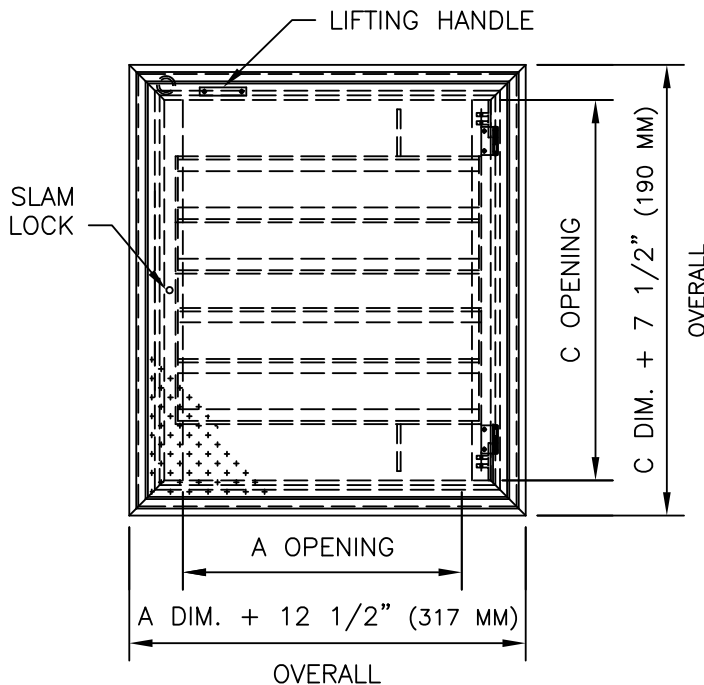


Series H1W Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- SINGLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

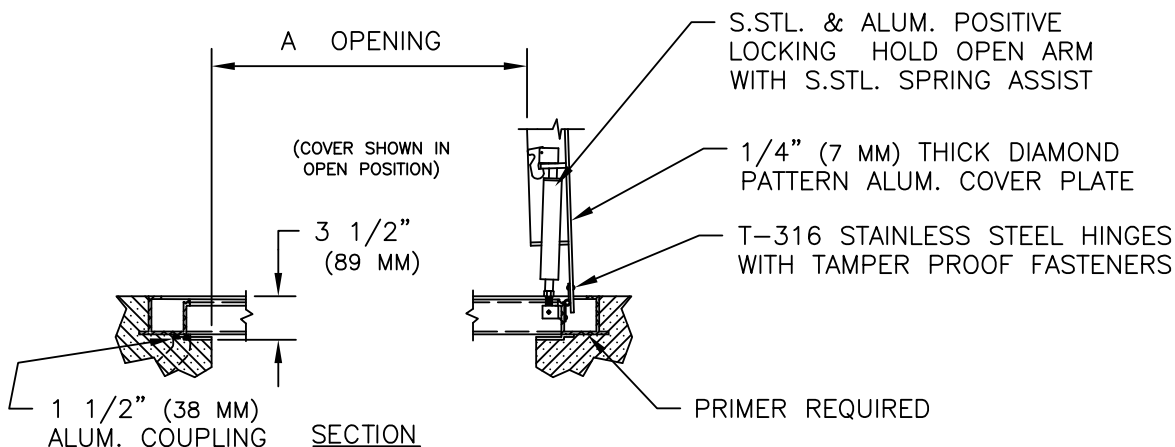


STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H1W2424	24 (610)	24 (610)	72 (33)
	H1W2430	24 (610)	30 (762)	90 (41)
	H1W2436	24 (610)	36 (914)	108 (49)
	H1W2442	24 (610)	42 (1067)	126 (57)
	H1W3030	30 (762)	30 (762)	113 (51)
	H1W3036	30 (762)	36 (914)	135 (61)
	H1W3042	30 (762)	42 (1067)	158 (72)
	H1W3048	30 (762)	48 (1219)	180 (82)
	H1W3636	36 (914)	36 (914)	162 (73)
	H1W3642	36 (914)	42 (1067)	189 (86)
	H1W3648	36 (914)	48 (1219)	216 (98)

NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC.

2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

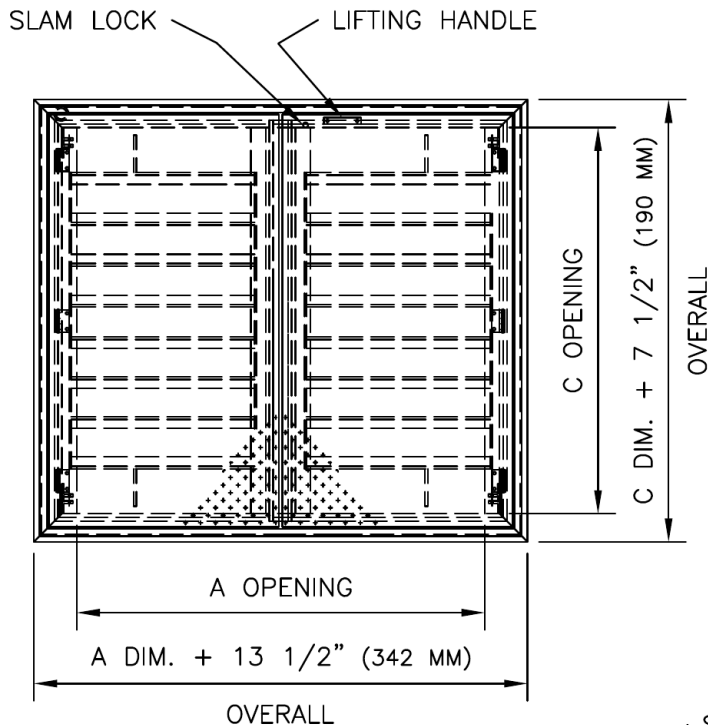


Series H2W Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- DOUBLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

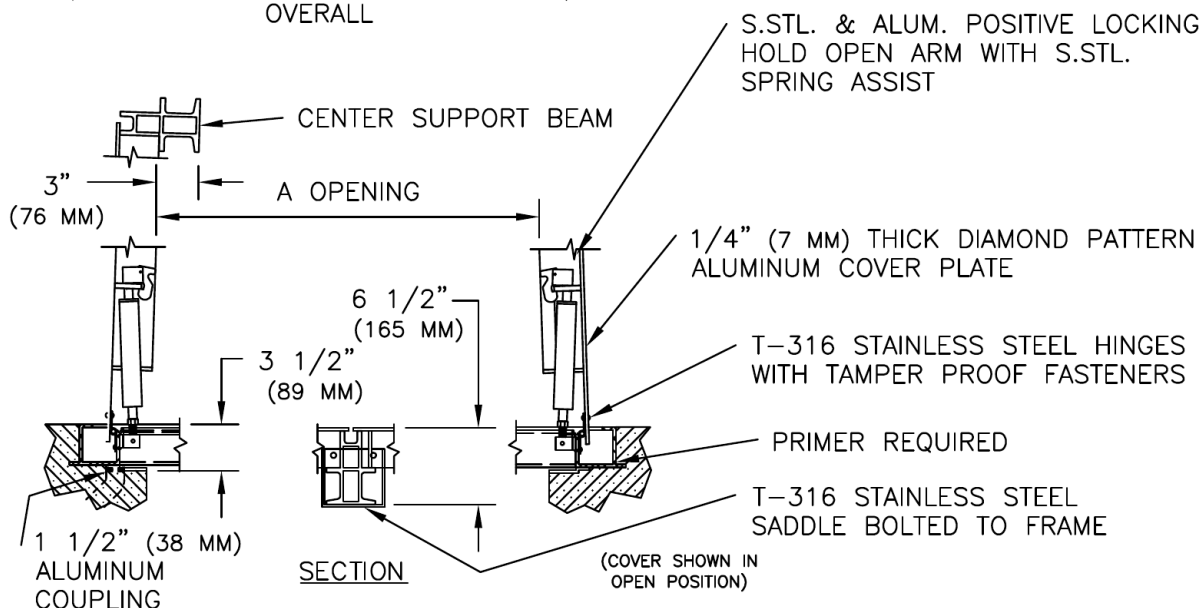


STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H2W4242	42 (1067)	42 (1067)	223 (101)
	H2W4842	48 (1219)	42 (1067)	238 (108)
	H2W4848	48 (1219)	48 (1219)	263 (119)
	H2W5442	54 (1372)	42 (1067)	252 (114)
	H2W5448	54 (1372)	48 (1219)	284 (129)
	H2W6048	60 (1524)	48 (1219)	300 (136)
	H2W6060	60 (1524)	60 (1524)	373 (169)
	H2W7248	72 (1829)	48 (1219)	341 (155)
	H2W7260	72 (1829)	60 (1524)	413 (187)
	H2W7272	72 (1829)	72 (1829)	504 (229)

NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC.

2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

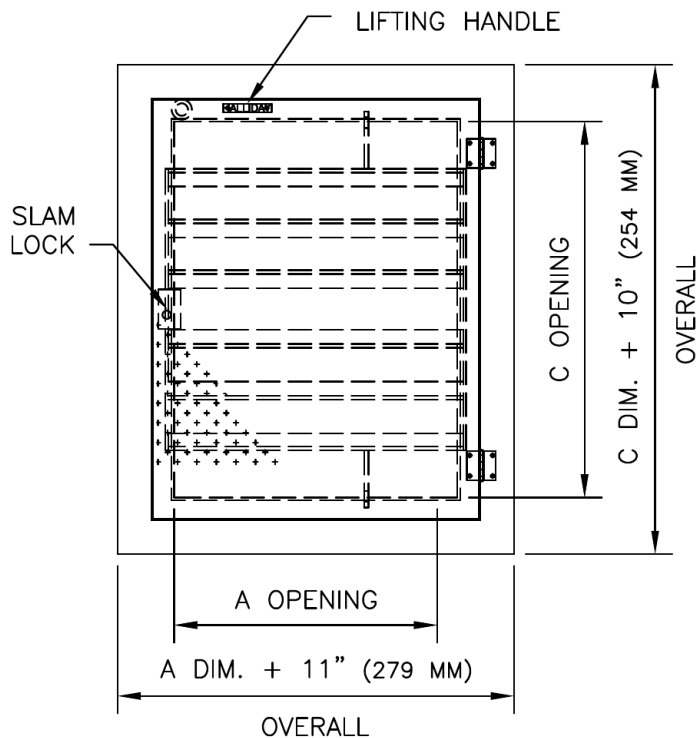


Series H1C Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- SINGLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

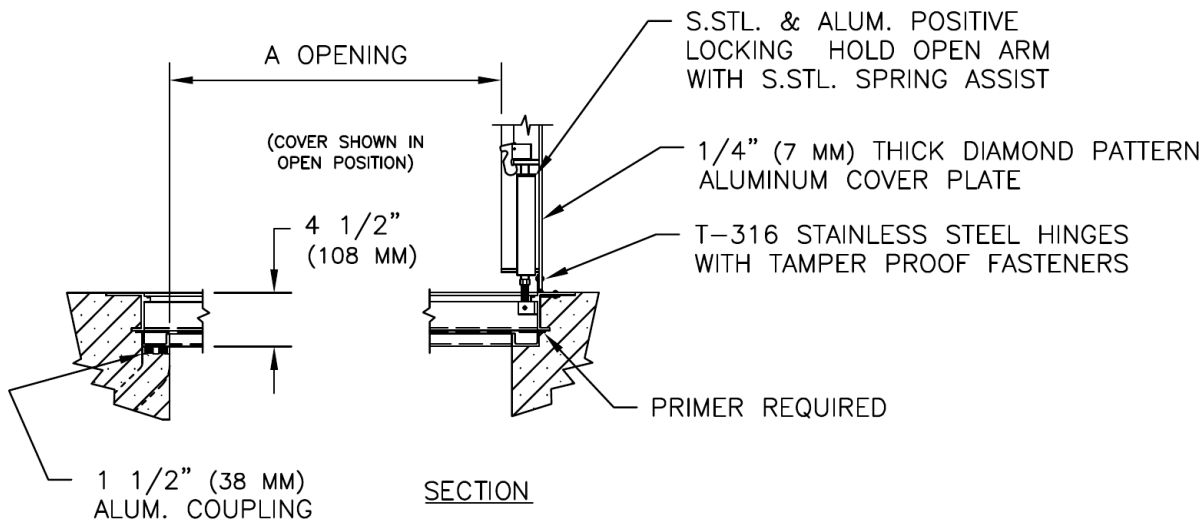


STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H1C2424	24 (610)	24 (610)	85 (39)
	H1C2430	24 (610)	30 (762)	100 (45)
	H1C2436	24 (610)	36 (914)	115 (52)
	H1C2442	24 (610)	42 (1067)	130 (59)
	H1C3030	30 (762)	30 (762)	108 (49)
	H1C3036	30 (762)	36 (914)	124 (56)
	H1C3042	30 (762)	42 (1067)	140 (64)
	H1C3048	30 (762)	48 (1219)	157 (71)
	H1C3636	36 (914)	36 (914)	134 (61)
	H1C3642	36 (914)	42 (1067)	151 (68)
	H1C3648	36 (914)	48 (1219)	166 (75)

NOTES:

- 1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC
- 2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

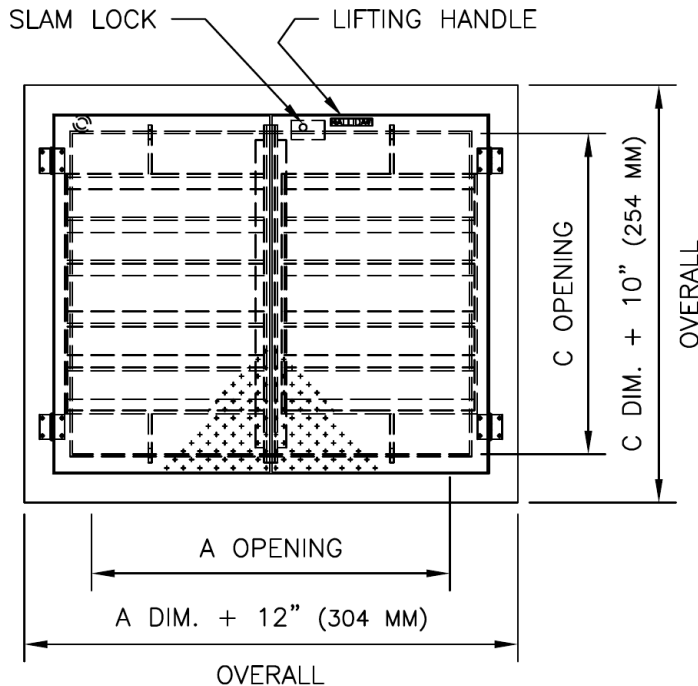


Series H2C Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- DOUBLE LEAF CONSTRUCTION
- H2O LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM CHANNEL FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE



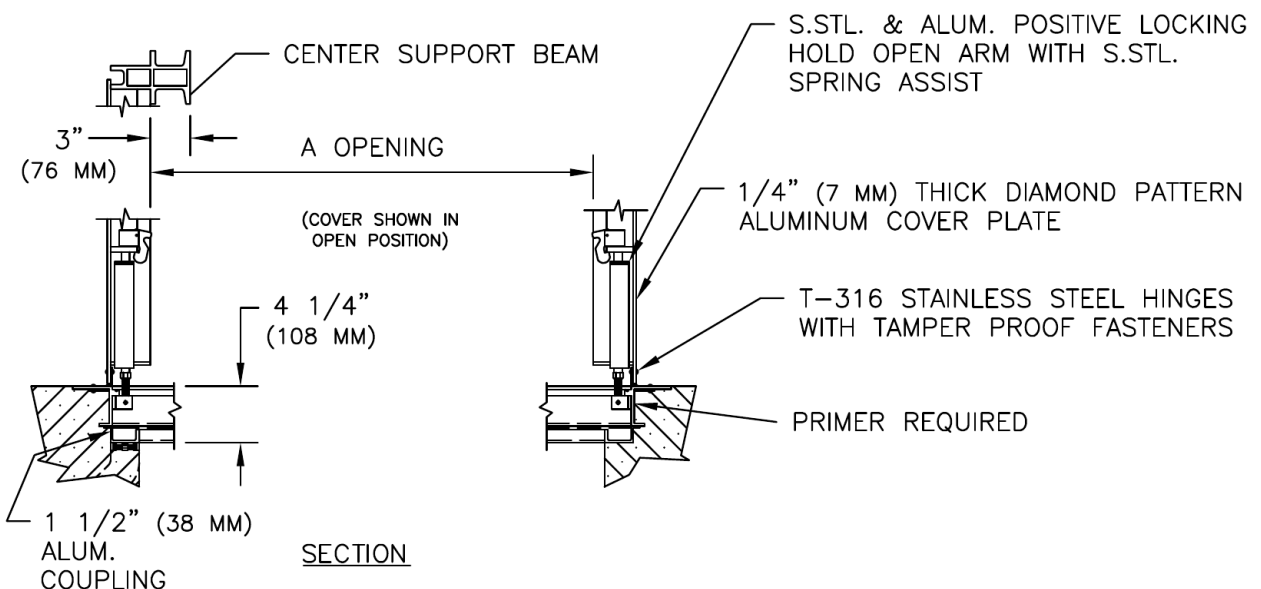
STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H2C4242	42 (1067)	42 (1067)	260 (118)
	H2C4842	48 (1219)	42 (1067)	289 (131)
	H2C4848	48 (1219)	48 (1219)	323 (147)
	H2C5442	54 (1372)	42 (1067)	318 (144)
	H2C5448	54 (1372)	48 (1219)	355 (161)
	H2C6048	60 (1524)	48 (1219)	367 (166)
	H2C6060	60 (1524)	60 (1524)	429 (195)
	H2C7248	72 (1829)	48 (1219)	400 (181)
	H2C7260	72 (1829)	60 (1524)	483 (219)
	H2C7272	72 (1829)	72 (1829)	566 (257)

NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC.

2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.



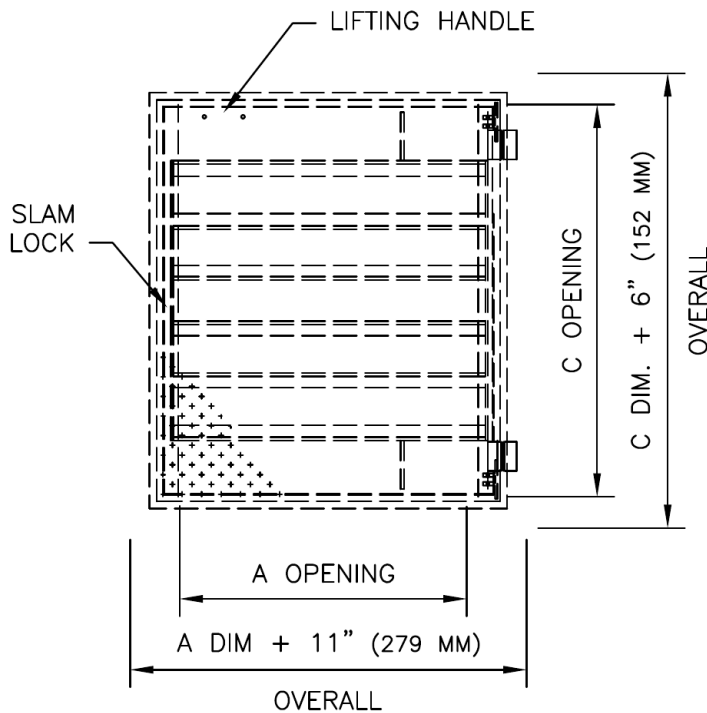
Series H1R Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- SINGLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE

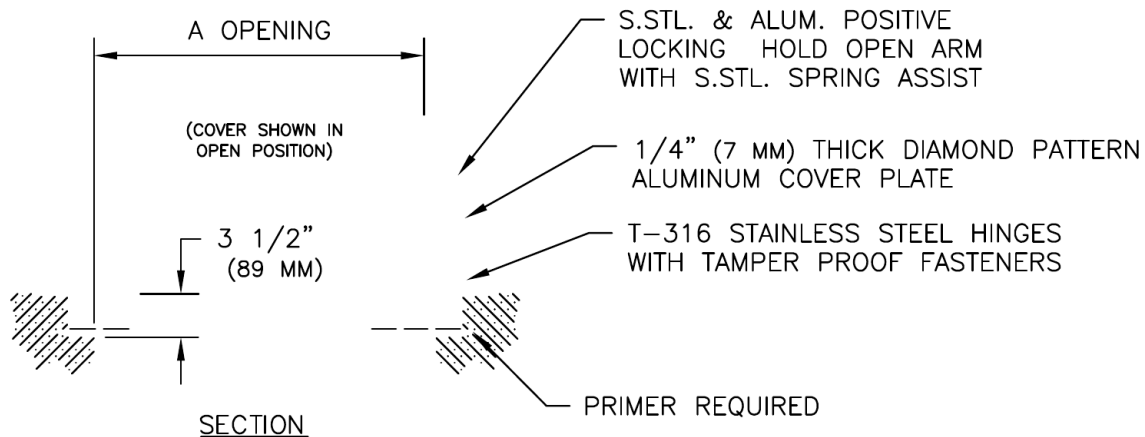
STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H1R2424	24 (610)	24 (610)	60 (27)
	H1R2430	24 (610)	30 (762)	75 (34)
	H1R2436	24 (610)	36 (914)	90 (41)
	H1R2442	24 (610)	42 (1067)	105 (48)
	H1R3030	30 (762)	30 (762)	94 (43)
	H1R3036	30 (762)	36 (914)	113 (51)
	H1R3042	30 (762)	42 (1067)	131 (59)
	H1R3048	30 (762)	48 (1219)	150 (68)
	H1R3636	36 (914)	36 (914)	135 (61)
	H1R3642	36 (914)	42 (1067)	158 (72)
	H1R3648	36 (914)	48 (1219)	180 (82)



NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC.

2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.

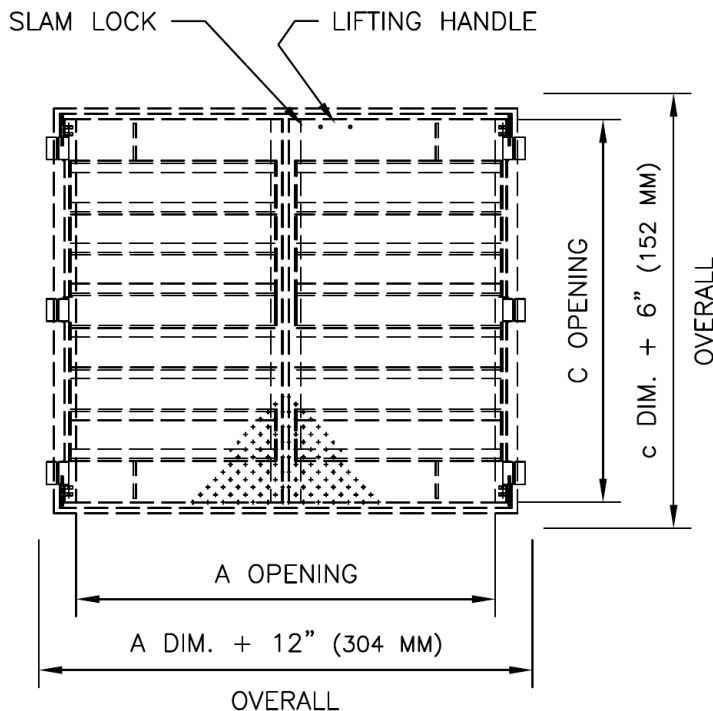


Series H2R Access Door



STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- T-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- T-316 STAINLESS STEEL SLAM LOCK WITH REMOVABLE KEY
- STAINLESS STEEL COMPRESSION SPRING ASSIST
- DOUBLE LEAF CONSTRUCTION
- H20 LOAD RATING (SEE NOTES)
- EXTRUDED ALUMINUM FRAME
- RECESSED LIFTING HANDLE
- LIFETIME GUARANTEE



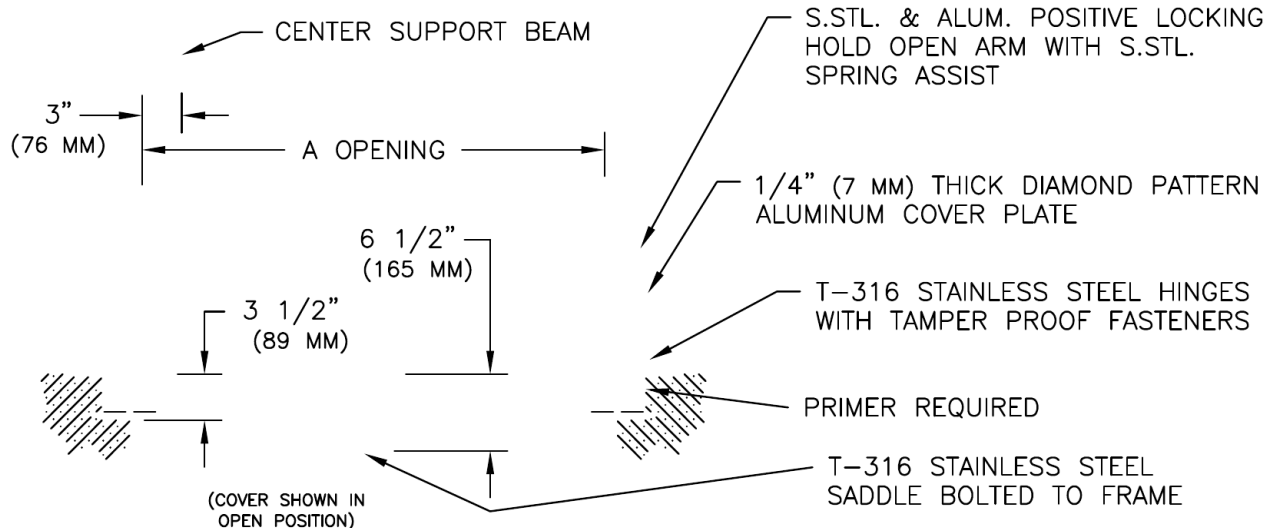
STANDARD SIZES

QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	H2R4242	42 (1067)	42 (1067)	198 (90)
	H2R4842	48 (1219)	42 (1067)	217 (98)
	H2R4848	48 (1219)	48 (1219)	235 (107)
	H2R5442	54 (1372)	42 (1067)	228 (103)
	H2R5448	54 (1372)	48 (1219)	257 (117)
	H2R6048	60 (1524)	48 (1219)	268 (122)
	H2R6060	60 (1524)	60 (1524)	339 (154)
	H2R7248	72 (1829)	48 (1219)	305 (138)
	H2R7260	72 (1829)	60 (1524)	374 (170)
	H2R7272	72 (1829)	72 (1829)	449 (204)

NOTES:

1) SUITABLE FOR USE IN OFF STREET LOCATION WHERE NOT SUBJECTED TO TRAFFIC.

2) PROVIDE A FULL BED OF CLASS "A" CONCRETE UNDER FRAME AND SUPPORT ANGLES.



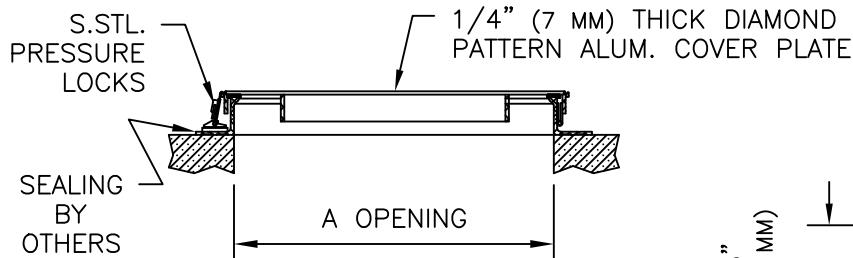
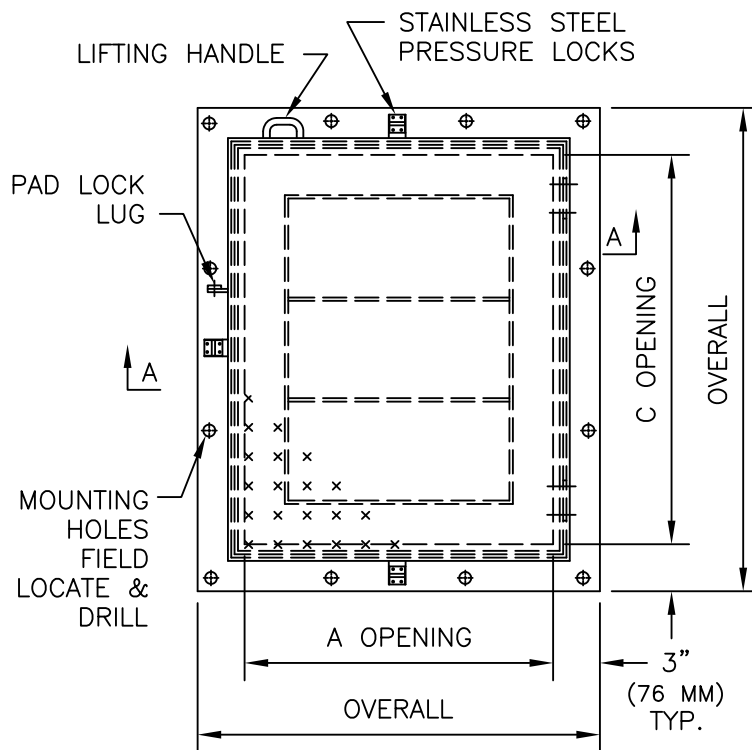
Series F1R Access Door



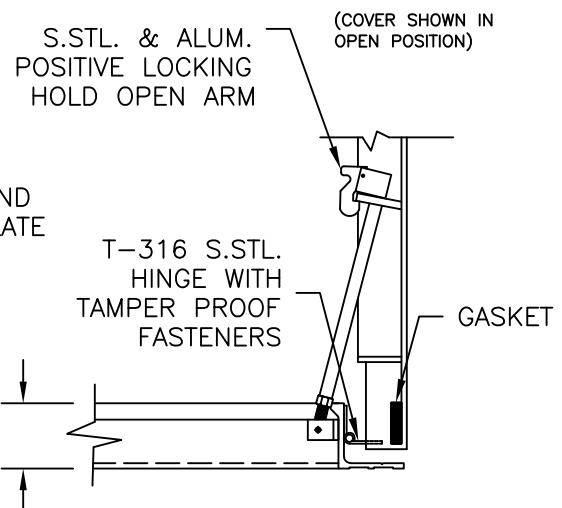
STANDARD FEATURES:

- AUTO-LOCK T-316 STAINLESS STEEL HOLD OPEN ARM WITH RELEASE HANDLE
- TYPE-316 STAINLESS STEEL HINGES AND ATTACHING HARDWARE
- STAINLESS STEEL PRESSURE LOCKS
- 1/4" (7 MM) NEOPRENE GASKET
- PADLOCK LUG
- SINGLE LEAF CONSTRUCTION
- 625 LBS. PER SQ. FT. LOAD RATING (28 KG. PER SQ. METER LOAD RATING)
- EXTRUDED ALUMINUM FRAME
- LIFETIME GUARANTEE

STANDARD SIZES				
QTY.	MODEL NO.	A DIM. INCHES (MM)	C DIM. INCHES (MM)	UNIT WT. LBS. (KG.)
	F1R2424	24 (610)	24 (610)	46 (21)
	F1R2430	24 (610)	30 (762)	51 (23)
	F1R2436	24 (610)	36 (914)	61 (28)
	F1R2442	24 (610)	42 (1067)	77 (35)
	F1R2448	24 (610)	48 (1219)	85 (39)
	F1R3030	30 (762)	30 (762)	54 (24)
	F1R3036	30 (762)	36 (914)	69 (31)
	F1R3042	30 (762)	42 (1067)	77 (35)
	F1R3048	30 (762)	48 (1219)	85 (39)
	F1R3054	30 (762)	54 (1372)	99 (45)
	F1R3060	30 (762)	60 (1524)	106 (48)
	F1R3636	36 (914)	36 (914)	70 (32)
	F1R3642	36 (914)	42 (1067)	89 (40)
	F1R3648	36 (914)	48 (1219)	97 (44)
	F1R3654	36 (914)	54 (1372)	107 (49)
	F1R3660	36 (914)	60 (1524)	104 (47)
	F1R3666	36 (914)	66 (1676)	126 (57)
	F1R3672	36 (914)	72 (1829)	135 (61)



SECTION A-A

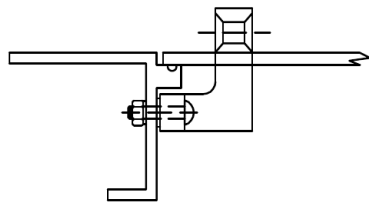


DETAIL

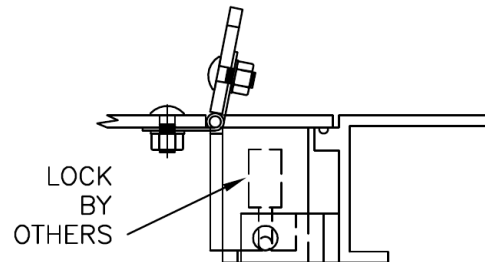
Access Cover Popular Options



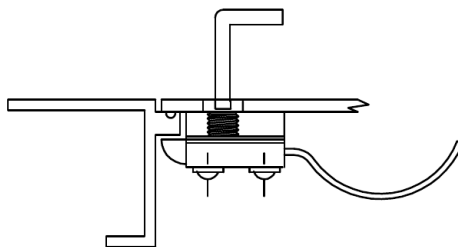
- HALLIDAY PRODUCTS OFFERS A VARIETY OF OPTIONS FOR OUR EXTENSIVE LINE OF QUALITY ACCESS FRAMES AND COVERS. PLEASE CONSULT FACTORY IF YOUR APPLICATION REQUIRES AN OPTION THAT IS NOT SHOWN.



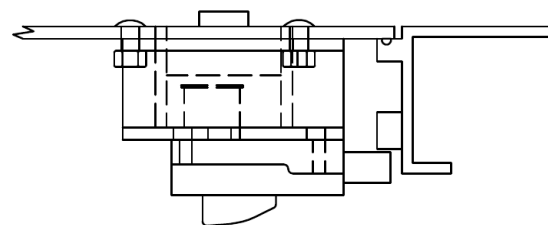
PADLOCK BAR



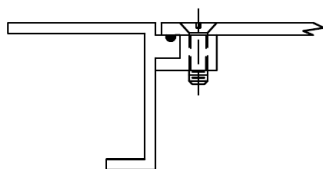
RECESSED LOCK BOX



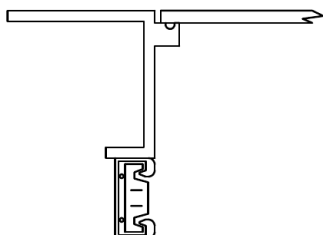
SLAM LOCK



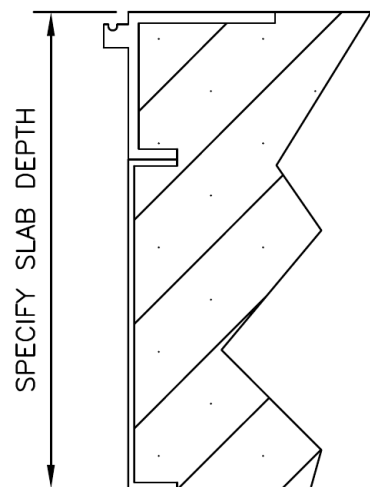
KEYED CYLINDER LOCK



BOLT DOWN FEATURE



NUTRAIL



SLAB SKIRTING

Optional Protective Grating Panel



STANDARD FEATURES:

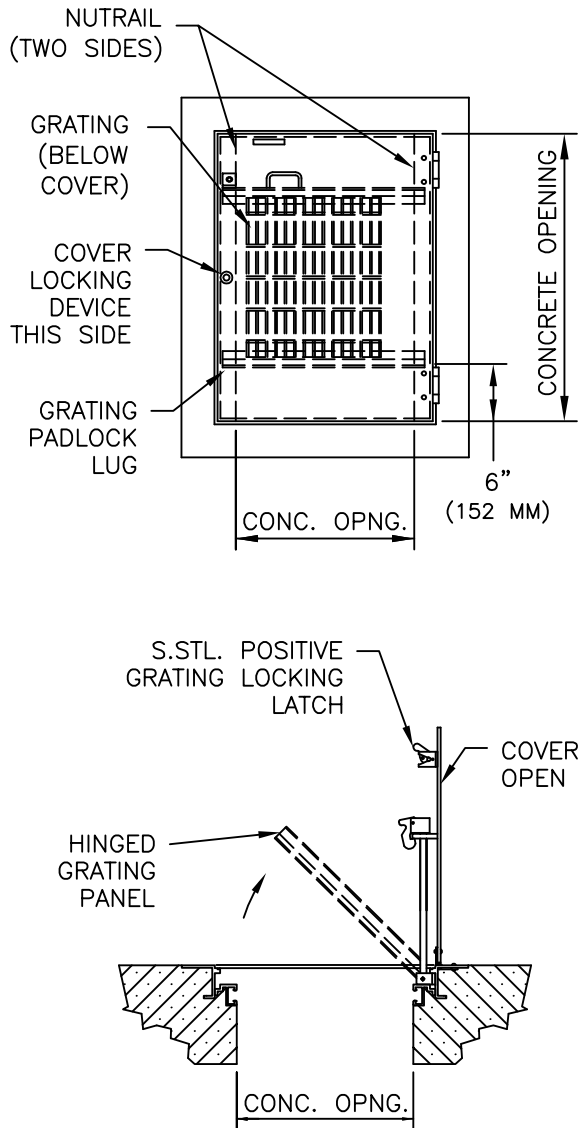
- ALUMINUM "I" BAR CONSTRUCTION
- ALL T-316 STAINLESS STEEL HARDWARE
- LOCKABLE WITH OWNER-SUPPLIED PADLOCK
- HINGED WITH POSITIVE LATCH TO MAINTAIN UPRIGHT POSITION
- LOAD RATED CONSISTENT WITH ACCESS COVER
- VIEW AREA FOR OBSERVATION AND LIMITED MAINTENANCE
- SAFETY ORANGE POWDER-COATED FINISH
- NUTRAIL W/S.TL. SPRING NUTS (300 LBS. PSF [1464 KG. PER METER] LOADED DOORS ONLY)
- LIFETIME GUARANTEE

APPLICATIONS:

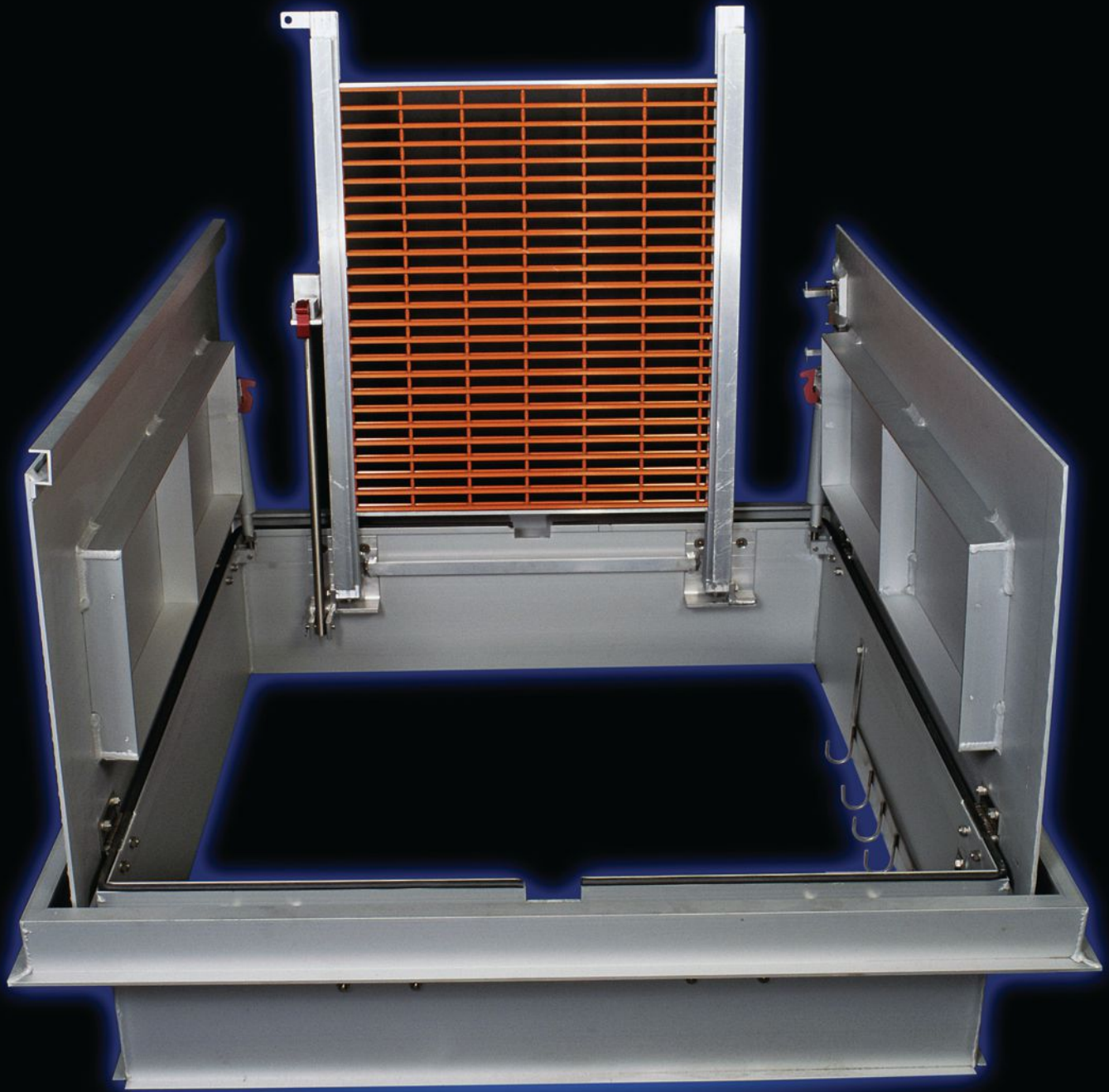
THE OPTIONAL PROTECTIVE GRATING PANEL SHOULD BE SPECIFIED FOR APPLICATIONS IN AREAS THAT REQUIRE ADDITIONAL PROTECTION SHOULD THE ACCESS COVER BE LEFT IN THE OPEN POSITION. THIS OPTION SHOULD ALSO BE CONSIDERED WHEN A SINGLE PERSON INSPECTION OF WET WELLS IS DESIRABLE. THE GRATING PANEL HAS PROVISIONS FOR AN OWNER-SUPPLIED PADLOCK THAT WOULD PROVIDE SECONDARY PROTECTION AGAINST UNAUTHORIZED PERSONNEL OPENING THE ACCESS COVER. THIS OPTION IS NOT AVAILABLE FOR ALL ACCESS COVERS MODELS. PLEASE CONSULT THE FACTORY.

HALLIDAY PRODUCTS OPTIONAL PROTECTIVE GRATING PANEL IS EQUIPPED WITH ALL T-316 STAINLESS STEEL HARDWARE. THIS LOCKABLE GRATING PANEL CAN BE FACTORY INSTALLED ON MOST MODELS IN OUR EXTENSIVE LINE OF QUALITY ACCESS COVERS. EACH GRATING PANEL IS POWDER COAT FINISHED IN SAFETY ORANGE COLOR, AND IS EQUIPPED WITH A T-316 STAINLESS STEEL POSITIVE LATCH WITH RELEASE HANDLE THAT SECURES THE GRATING PANEL IN THE OPEN POSITION. THE GRATING SUPPORT LEDGES FEATURE BUILT-IN NUTRAIL. EACH UNIT IS SUPPLIED WITH FOUR STAINLESS STEEL SPRING NUTS USED TO MOUNT PUMP BRACKETS AND CABLE HOLDERS.

- CONSULT FACTORY FOR ALL PRICING
- FOR ADDITIONAL INFORMATION VISIT US AT:
HallidayProducts.com



Retro-Grate™



Introducing Retro-Grate™

The custom made fall-thru protection system designed to fit most openings, regardless of the cover manufacturer. Easily installed, Retro-Grate™ changes a potentially hazardous access cover opening into a safe and secure surrounding.

Each and every time an access cover is opened, the possibility of a fall-thru accident exists. Retro-Grate™ by Halliday Products eliminates the hazard by covering the opening with a hinged grating panel. When access to the opening is required, the safety color orange powder coated grating panel hinges up and out of the way. Once the work is complete, simply release the latch and lower Retro-Grate™ back into position. The next operator to open the access cover is protected.

Retro-Grate™ is easy to install and allows for minor maintenance and adjustments beneath the access cover without exposing the operator to an uncovered opening. Retro-Grate™ provides additional security against unauthorized entry with the use of an owner supplied padlock and allows for single person inspections.

So, why gamble? Choose Retro-Grate™ by Halliday Products, a proven industry leader you have trusted for over 30 years.

To receive a price quote, use the convenient form on page 28.

RETRO GRATE™
FALL-THRU PROTECTION SYSTEM



Before Retro-Grate™



After Retro-Grate™

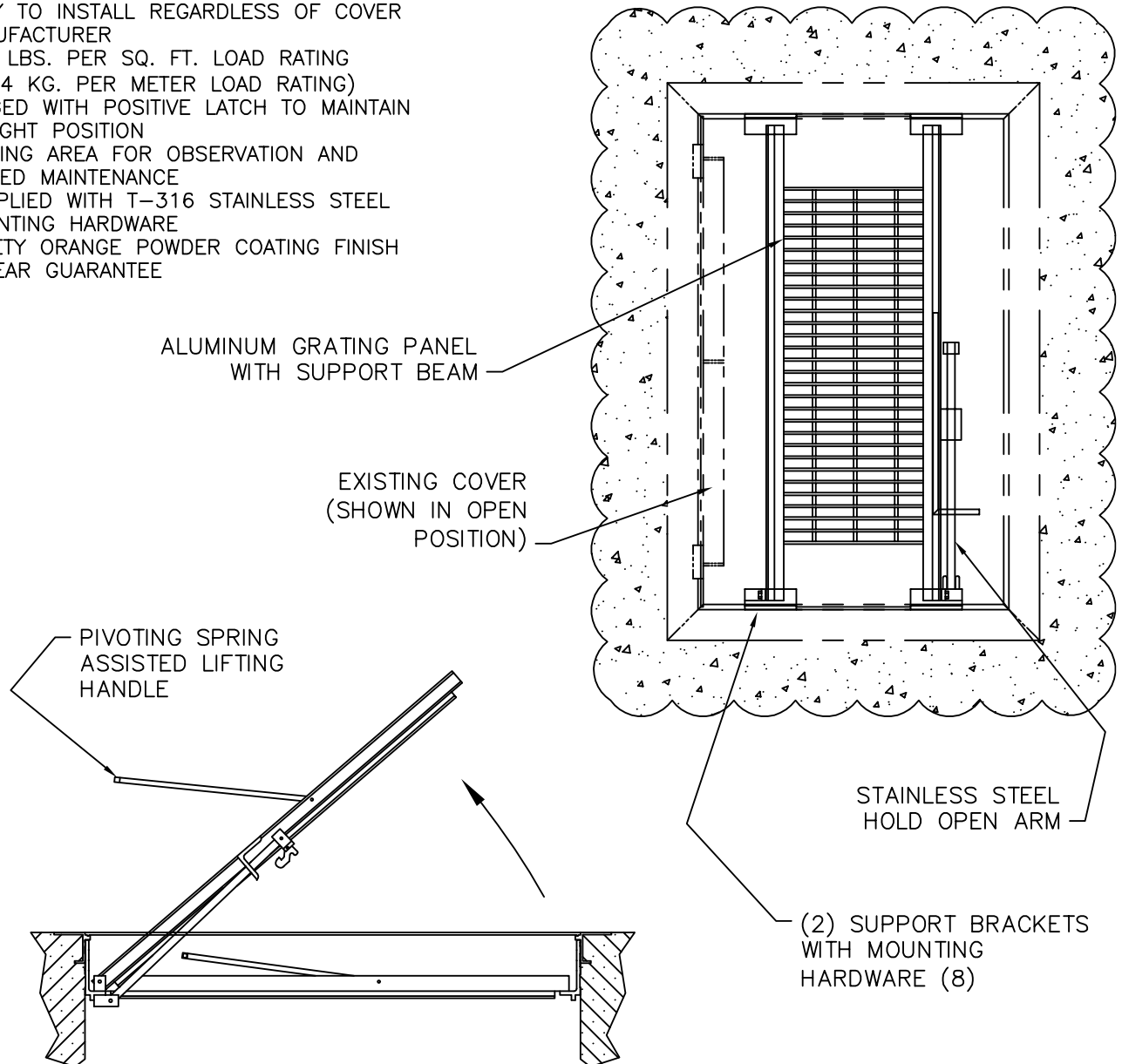


Series X Retro-Grate™



STANDARD FEATURES:

- ALUMINUM "1" BAR CONSTRUCTION
- T-316 STAINLESS STEEL HARDWARE
- SPRING LOADED LIFTING HANDLE
- LOCKABLE WITH OWNER SUPPLIED PADLOCK
- EASY TO INSTALL REGARDLESS OF COVER MANUFACTURER
- 300 LBS. PER SQ. FT. LOAD RATING (1464 KG. PER METER LOAD RATING)
- HINGED WITH POSITIVE LATCH TO MAINTAIN UPRIGHT POSITION
- VIEWING AREA FOR OBSERVATION AND LIMITED MAINTENANCE
- SUPPLIED WITH T-316 STAINLESS STEEL MOUNTING HARDWARE
- SAFETY ORANGE POWDER COATING FINISH
- 3 YEAR GUARANTEE



APPLICATIONS:

THE SERIES X RETRO-GRATE IS A HINGED ALUMINUM GRATING PANEL THAT IS EASILY INSTALLED BENEATH EXISTING ACCESS COVERS REGARDLESS OF THE ORIGINAL COVER MANUFACTURER. THE RETRO-GRATE PROVIDES ADDITIONAL PROTECTION AGAINST FALL THROUGH ACCIDENTS WHEN THE COVER IS LEFT IN THE OPEN POSITION. THE UNIT IS LOCKABLE BY AN OWNER SUPPLIED PADLOCK AND INCORPORATES A SPRING ASSISTED LIFTING HANDLE THAT POSITIONS THE HANDLE NEAR THE SLAB LEVEL. THE UNIT IS SUPPLIED WITH T-316 STAINLESS STEEL MOUNTING HARDWARE AND AN AUTOMATIC HOLD OPEN ARM WITH ALUMINUM RELEASE LATCH. THE RETRO-GRATE IS DESIGNED TO BE INSTALLED BY MOUNTING THE SUPPORT BRACKETS TO EITHER THE EXISTING FRAMEWORK OR TO THE CONCRETE SLAB BELOW THE FRAMEWORK.

Retro-Grate™ installations require specific information that must be obtained from field measurements and observations acquired at each site. **For units larger than 72" x 72", consult factory.** To obtain a price quotation, each unit will need its own form completed with all required information and faxed to the number below. To submit online, select Retro-Grate™ at www.HallidayProducts.com. Please call 800-298-1027 with any questions and our sales staff will be happy to help you. **Pictures may be necessary to ensure proper installation.**

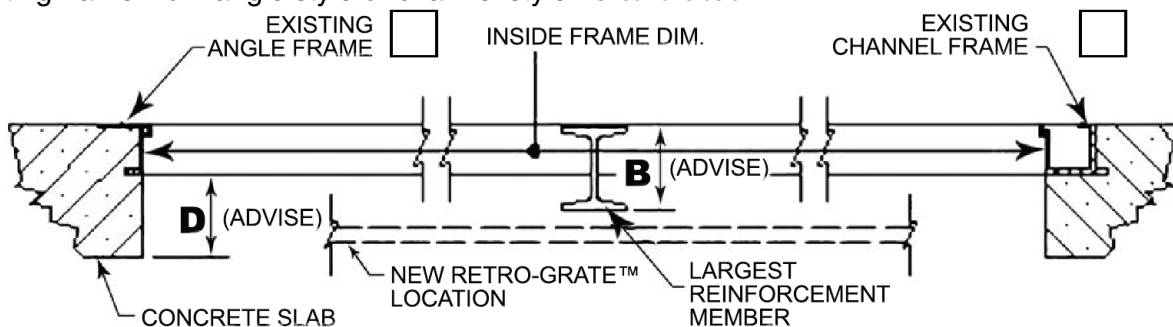


CONTACT INFORMATION

COMPANY		CONTACT PERSON
PHONE	FAX	EMAIL

RETRO-GRATE™ REQUIRED INFORMATION

Is the existing frame work angle style or channel style? Check one below.



What is the inside dimension of the frame in both directions? _____

X

(Hinge Side)

What is the depth of the concrete slab below the existing frame? (D)

What is the largest reinforcement member on the existing cover? (B)

What is the condition of the concrete at the proposed installation?

(If condition of concrete is poor, photos will be required.)

☐ Good ☐ Poor

How many door leaves are in the existing frame work?

☐ One ☐ Two ☐ Other

Are there any obstructions in the existing opening?

(If so, consult factory, photos will be required.)

☐ Yes ☐ No

Is the slab flush with the inside of the existing frame below the cover?

☐ Yes ☐ No

What is the job or location tag?

Who is the existing cover manufacturer?

City, State and Zip Code of the shipping destination?

(For a Freight ESTIMATE)



Please Fax to 407-298-4534

6401 Edgewater Drive
Orlando, Florida 32810

Portable Hoists and Sockets



Series DA Portable Hoist



STANDARD FEATURES:

- TYPE-304 STAINLESS STEEL CONSTRUCTION
- 30 FEET (9 METERS) OF 1/4" (7 MM) STAINLESS STEEL CABLE
- GALVANIZED 1 TON HOOK
- DUTTON-LAINSON MARINE GRADE BRAKE WINCH
- 3 YEAR GUARANTEE

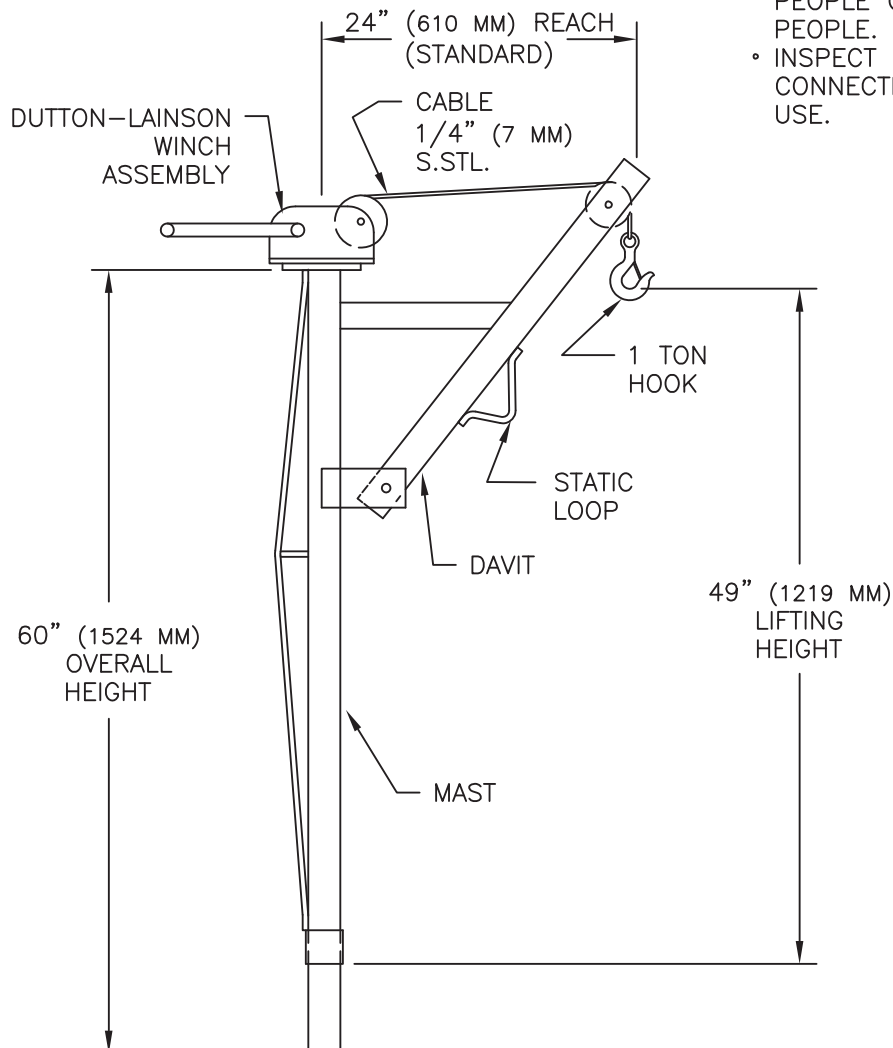
OPTIONS:

- TYPE-316 CONSTRUCTION
- ADDITIONAL CABLE AVAILABLE (SPECIFY LENGTH)
- STAINLESS STEEL WINCH
- STAINLESS STEEL HOOK
- OTHER REACHES AVAILABLE UPON REQUEST (CONSULT FACTORY)

STANDARD SIZES			
QTY.	MODEL NO.	MAX .LOAD LBS. (KG.)	UNIT WT. LBS. (KG.)
	D1A24C	500 (227)	65 (30)
	D2A24D	1000 (454)	88 (40)
	D3A24E	1500 (680)	103 (48)

NOTICE:

- HALLIDAY PRODUCTS STAINLESS STEEL PORTABLE HOIST SHOULD NOT BE USED TO MOVE PEOPLE OR LOADS ABOVE PEOPLE.
- INSPECT CABLE AND HOOK CONNECTIONS BEFORE EACH USE.



Series DB Portable Hoist



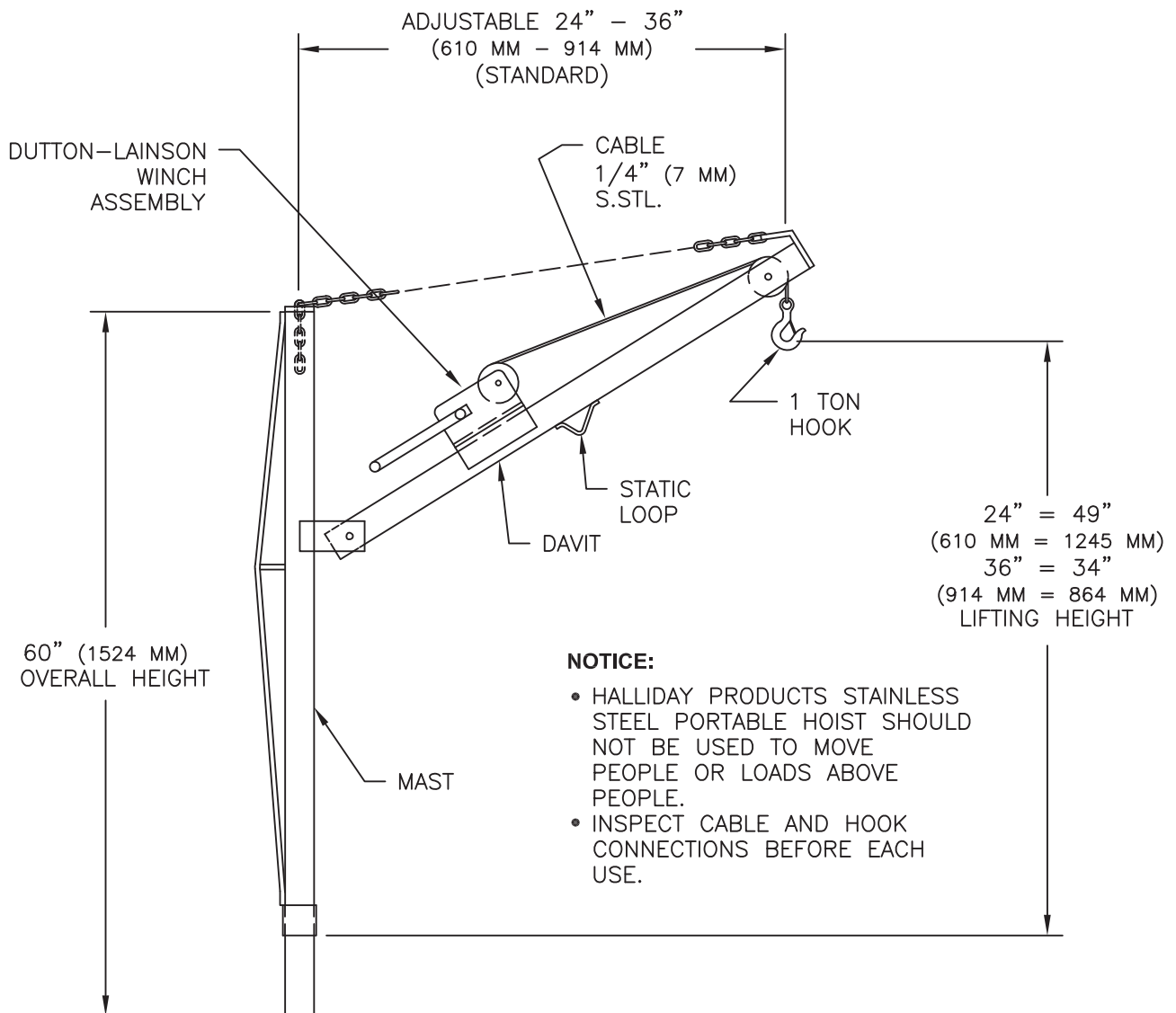
STANDARD FEATURES:

- TYPE-304 STAINLESS STEEL CONSTRUCTION
- 30 FEET (9 METERS) OF 1/4" (7 MM) STAINLESS STEEL CABLE
- GALVANIZED 1 TON HOOK
- DUTTON-LAINSON MARINE GRADE BRAKE WINCH
- ADJUSTABLE REACH IN 1" (25 MM) INCREMENTS
- 3 YEAR GUARANTEE

OPTIONS:

- TYPE-316 CONSTRUCTION
- ADDITIONAL CABLE AVAILABLE (SPECIFY LENGTH)
- STAINLESS STEEL WINCH
- STAINLESS STEEL HOOK
- OTHER REACHES AVAILABLE UPON REQUEST (CONSULT FACTORY)

STANDARD SIZES			
QTY.	MODEL NO.	MAX .LOAD LBS. (KG.)	UNIT WT. LBS. (KG.)
	D1B36C	300 (136)	73 (33)
	D2B36D	1000 (454)	96 (44)
	D3B36E	1330 (603)	111 (50)

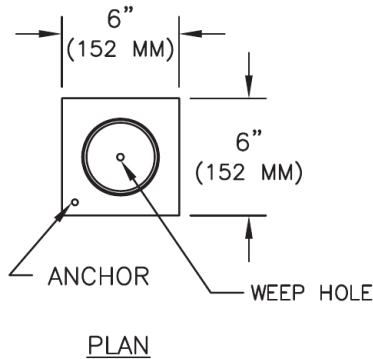


Series D Hoist Sockets

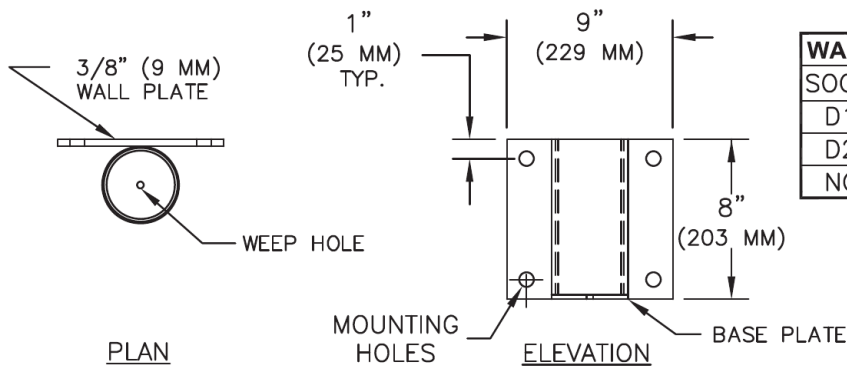


STANDARD FEATURES:

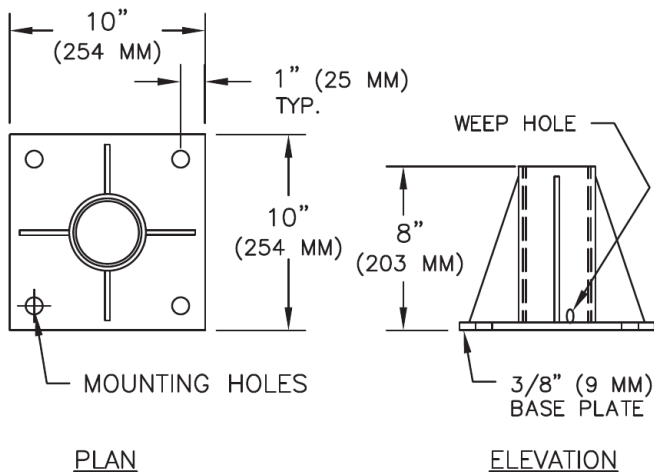
- STAINLESS STEEL TYPE-304 (STANDARD) OR TYPE-316 (OPTIONAL) CONSTRUCTION
- AVAILABLE IN 3 STYLES
- SUPPLIED WITH POLYMER LINING FOR SMOOTHER ROTATION
- 3 YEAR GUARANTEE



EMBED STYLE HOIST SOCKETS	
SOCKET MODEL #	FOR HOIST MODELS
D1R LINED	D1A AND D1B
D2R LINED	D2A AND D2B
D3R LINED	D3A AND D3B



WALL STYLE HOIST SOCKETS	
SOCKET MODEL #	FOR HOIST MODELS
D1V LINED	D1A AND D1B
D2V LINED	D2A AND D2B
NOT AVAILABLE	D3A AND D3B



FLOOR STYLE HOIST SOCKETS	
SOCKET MODEL #	FOR HOIST MODELS
D1S LINED	D1A AND D1B
D2S LINED	D2A AND D2B
D3S LINED	D3A AND D3B

NOTES:
MOUNTING HOLES ARE $\phi 3/4"$ ($\phi 19$ MM)

Mixer Masts



HP

HALLIDAY PRODUCTS

Series M Mixer Masts

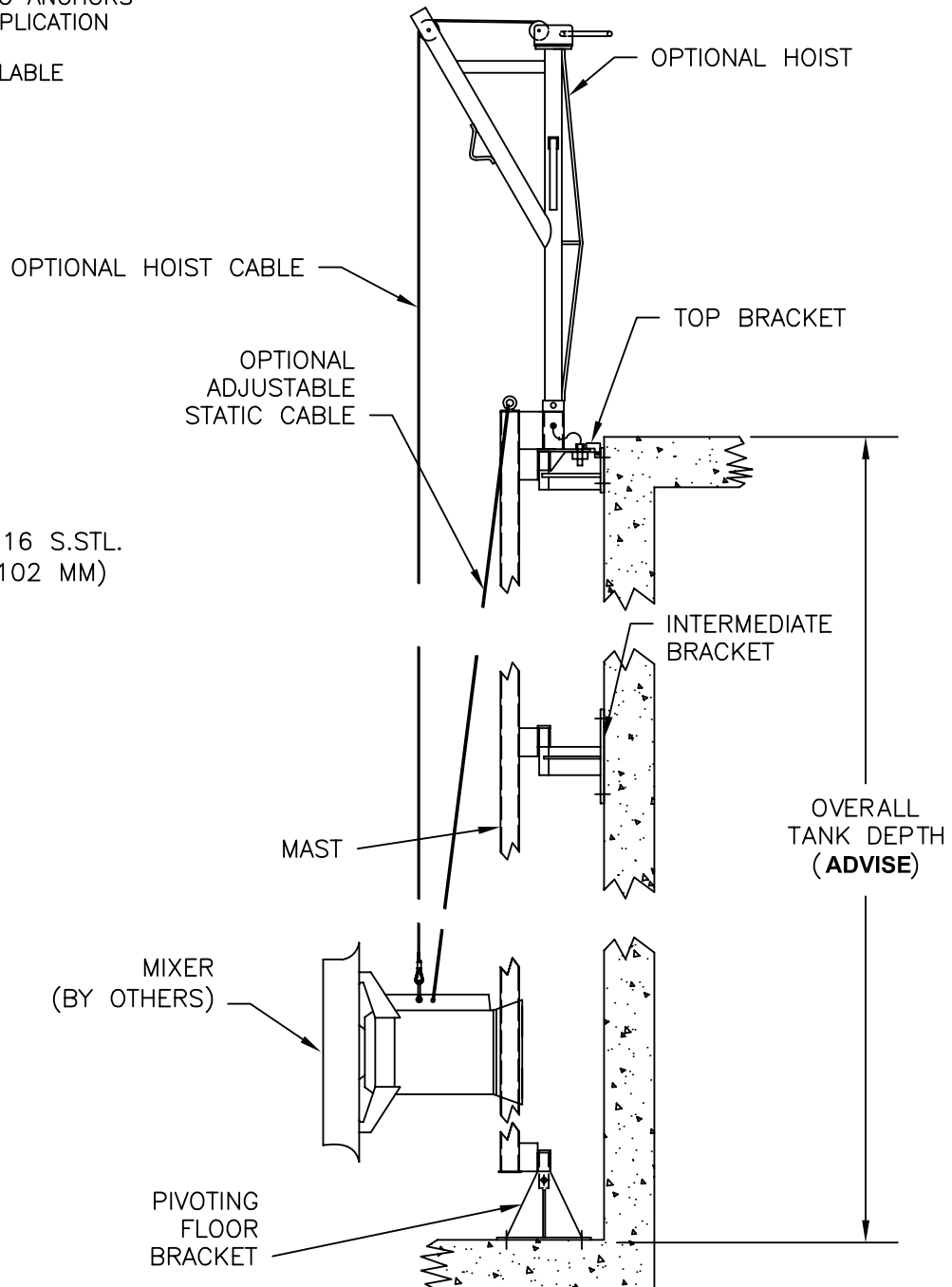


STANDARD FEATURES:

- AVAILABLE IN 2" (51 MM) AND 4" (102 MM) MAST SYSTEMS
- ALL WELDED CONSTRUCTION
- POLYMER BUSHINGS AT ALL PIVOT POINTS
- POSITIONER PLATE W/MULTIPLE SETTINGS
- HOIST SOCKET W/BUSHING
- STAINLESS STEEL MOUNTING ANCHORS
- CUSTOM FIT FOR EACH APPLICATION
- PIVOTING BASE BRACKET
- EXTENSION BRACKETS AVAILABLE
- 3 YEAR GUARANTEE

REQUIRED INFORMATION:

- OVERALL TANK DEPTH
- TYPE 304 OR TYPE 316 S.STL.
- 2" (51 MM) OR 4" (102 MM) MAST SYSTEM



Telescoping Valves



Series V4A Telescoping Valve



STANDARD FEATURES:

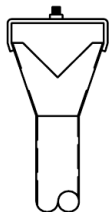
- STAINLESS STEEL CONSTRUCTION
- NON-RISING DESIGN
- 16" (406 MM) DIAMETER ALUMINUM HANDWHEEL
- $\phi 1 \frac{1}{8}$ ($\phi 29$ MM) S.STL. TRIPLE LEAD ACME ROD
- BRASS LIFTING NUT
- POLYMER BEARING PADS
- 150# S.STL. COMPANION FLANGE
- $\frac{1}{4}$ " (7 MM) THICK NEOPRENE WIPE GASKET
- 3 YEAR GUARANTEE

REQUIRED INFORMATION:

- BASE PLATE ELEVATION
- OFFSET
- HIGH WATER ELEVATION
- SLIDE PIPE MODEL (501, 502, 503)
- LENGTH OF TRAVEL
- TOP OF RISER PIPE ELEVATION
- EXISTING RISER PIPE SIZE

MODEL 502

SLIDE PIPE WITH CONE "V" WEIR TOP



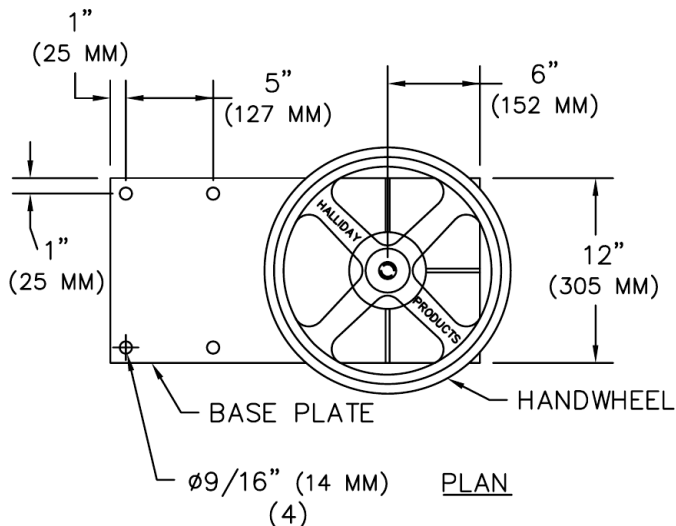
ELEVATION

MODEL 503

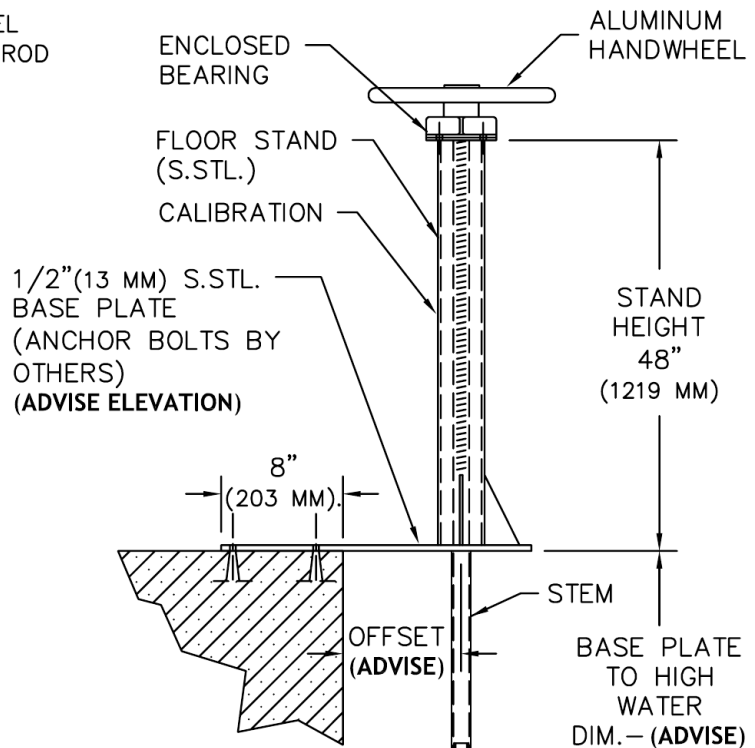
SLIDE PIPE WITH "V" WEIR TOP



ELEVATION

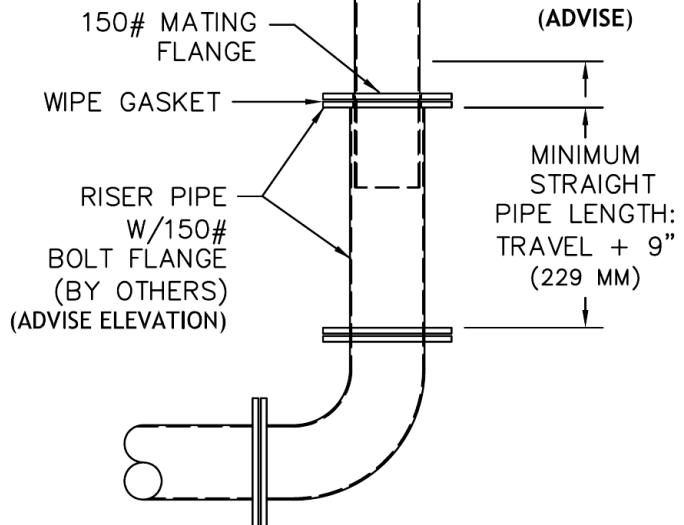


PLAN



MODEL 501

SLIDE PIPE SHOWN



ELEVATION

Series V4R Telescoping Valve



STANDARD FEATURES:

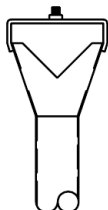
- STAINLESS STEEL CONSTRUCTION
- RISING STEM DESIGN
- 1" (25 MM) STAINLESS STEEL RACK W/S.STL. PINION
- OIL-IMPREGNATED SINTERED BRONZE BEARING
- 16" (406 MM) DIAMETER ALUMINUM HANDWHEEL
- CLEAR STEM COVER WITH CALIBRATION STRIP
- 150# S.STL. COMPANION FLANGE
- 1/4" (7 MM) THICK NEOPRENE WIPE GASKET
- 3 YEAR GUARANTEE

REQUIRED INFORMATION:

- BASE PLATE ELEVATION
- OFFSET
- HIGH WATER ELEVATION
- SLIDE PIPE MODEL (501, 502, 503)
- LENGTH OF TRAVEL
- TOP OF RISER PIPE ELEVATION
- EXISTING RISER PIPE SIZE

MODEL 502

SLIDE PIPE WITH CONE "V" WEIR TOP



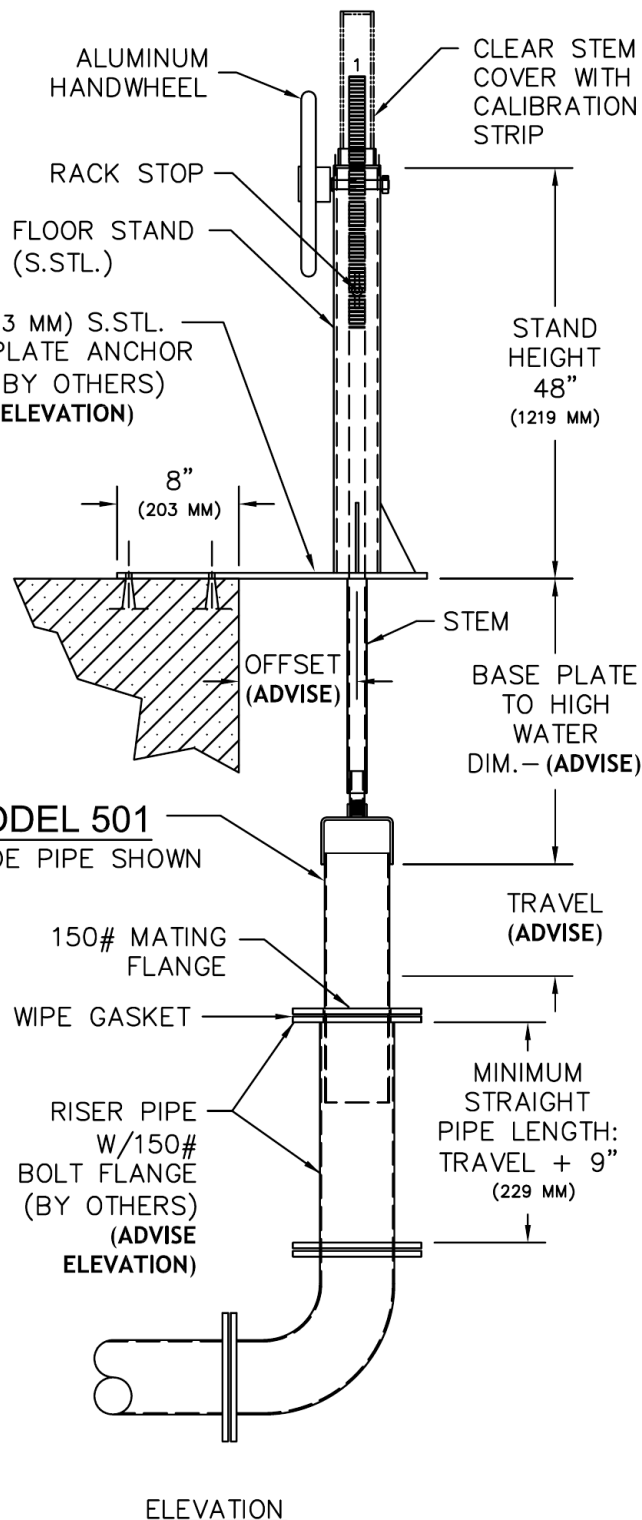
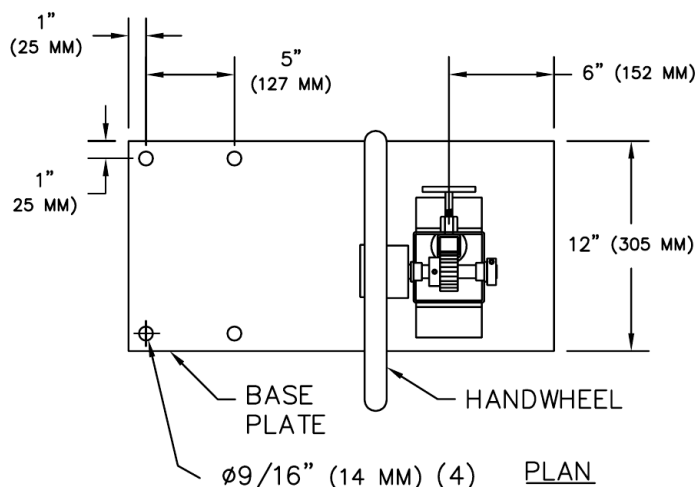
ELEVATION

MODEL 503

SLIDE PIPE WITH "V" WEIR TOP



ELEVATION



Ladders/Safety Extension



HP

HALLIDAY PRODUCTS

Series L1B and L1D Ladders

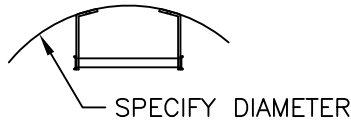


STANDARD FEATURES:

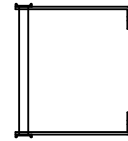
- ALL ALUMINUM WELDED CONSTRUCTION
- 1 3/8 DIA. TYPE "D" RUNG WITH FLATE SLIP RESISTANT RIBBED RUNG DESIGN
- CUSTOM FIT WALL MOUNTED STANDOFFS
- FLOOR AND WALL OR WALL-ONLY MOUNTING (SPECIFY)
- FLAT OR ROUND WALL MOUNTING (SPECIFY)
- AVAILABLE IN WELDED STAINLESS STEEL CONSTRUCTION
- 3 YEAR GUARANTEE

REQUIRED INFORMATION:

- BASIN DIAMETER OR FLAT WALL
- RAIL LENGTH IN FEET
- STANDOFF LENGTH (7" [178 MM] MIN.)
- L1B OR L1D MOUNTING

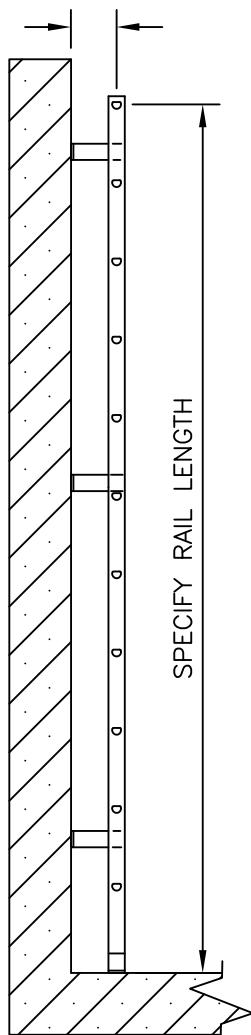


BASIN WALL MOUNTING

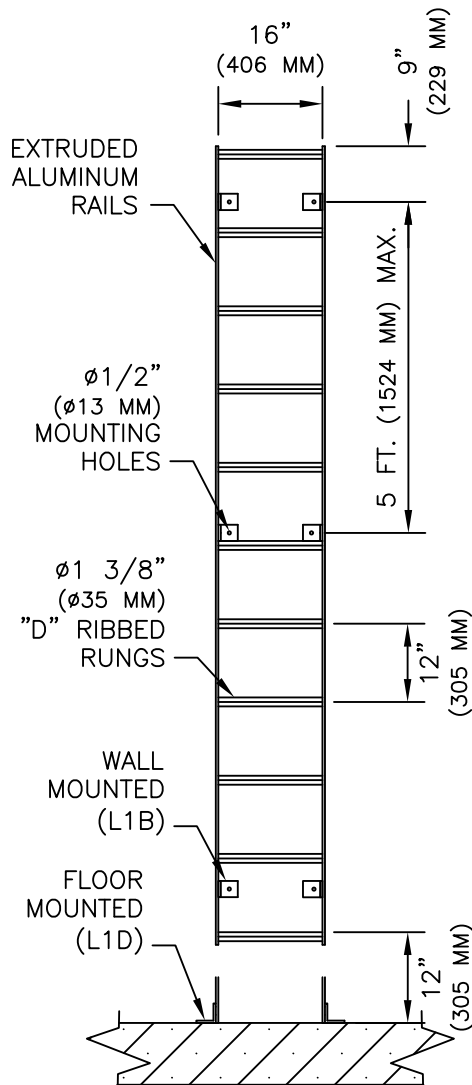


FLAT WALL MOUNTING

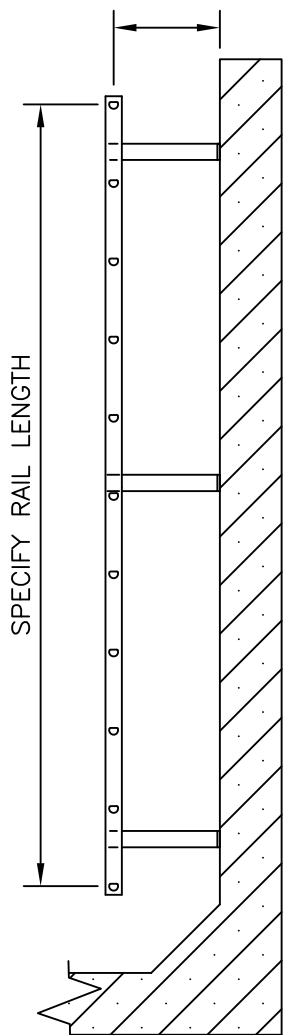
STANDOFF
(7" [178 MM] MIN.)
(ADVISE)



L1D (FLOOR AND WALL MOUNT)



STANDOFF
(7" [178 MM] MIN.)
(ADVISE)



L1B (WALL MOUNT)

Series L1E Ladder Extension



STANDARD FEATURES:

- EASY TO INSTALL ON ALUMINUM OR STAINLESS LADDERS
- SECURE LOCKING IN THE EXTENDED POSITION
- LIGHT WEIGHT OPERATION
- ALL ALUMINUM AND STAINLESS STEEL CONSTRUCTION
- ALSO AVAILABLE IN ALL TYPE 304 OR TYPE 316 S.STL.
- 3 YEAR GUARANTEE

MODEL	HEIGHT	ABOVE LADDER	MIN. TANK DEPT.
A	37" (940MM)	42" (1067MM)	73" (1854MM)
B	34" (864MM)	39" (991MM)	55" (1397MM)

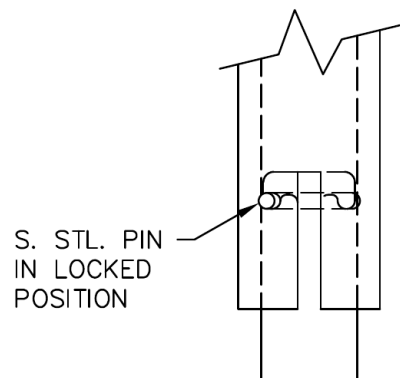
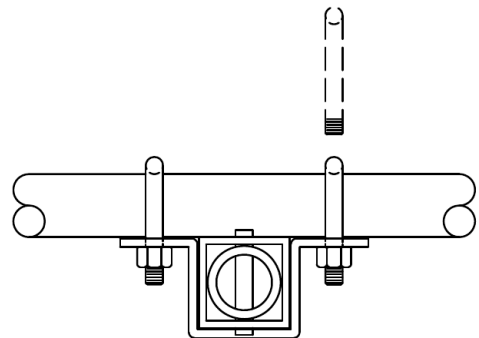
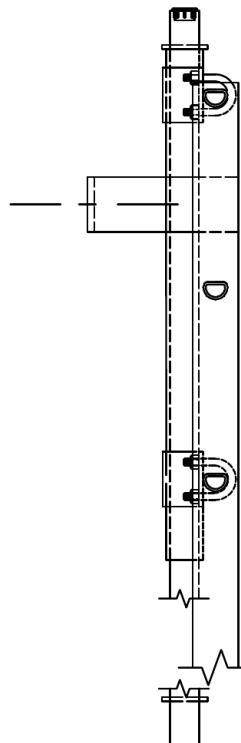
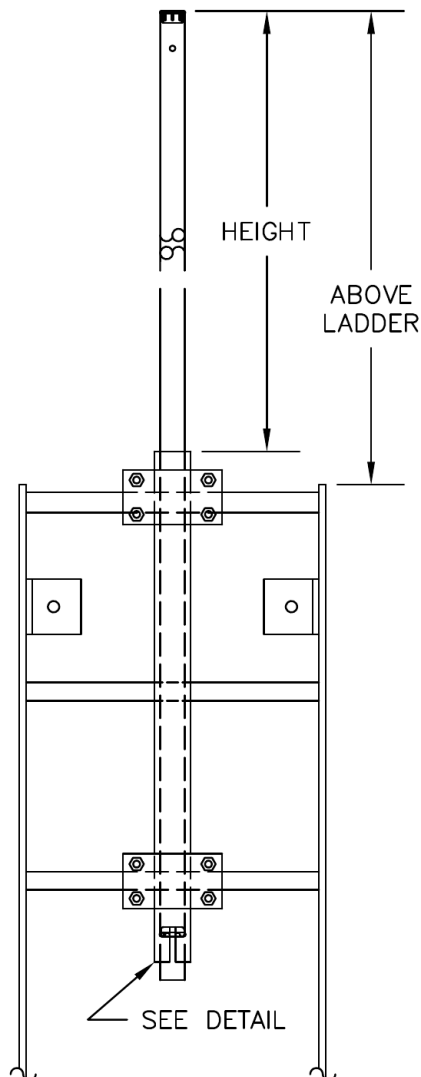
INSTALLATION & OPERATION INSTRUCTIONS

Installation:

- Place ladder flat on the ground with standoffs up.
- Place 2" (52 mm) square aluminum tube in center of rungs with the "T" shaped slot below third rung as shown (Model A) or second rung (Model B).
- Place stainless steel channel clamp over square aluminum tube so "U" clamp holes line up on either side of rungs as shown.
- Insert stainless steel "U" bolts over rung and through holes in stainless steel channel clamp as shown.
- Apply 10-15 foot pounds (1.3-2.1 kg./meter) of torque to all "U" bolt nuts.
- Verify that square aluminum tube is secured to ladder rungs.

Operation:

- To engage ladder extension, grasp aluminum post above the top stainless steel channel clamp, and pull straight up until lower stainless steel pin is seated.
- Rotate aluminum post 1/4 turn in either direction to secure pin in slot as shown in Detail.



DETAIL

NOTES:
PIN MUST BE IN LOCKED POSITION PRIOR
TO OPERATION.

Debris Baskets



Series B1A Trash Basket

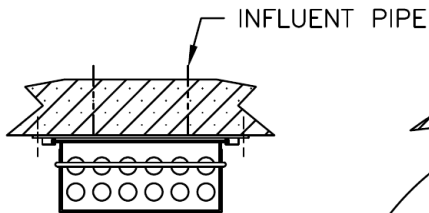


STANDARD FEATURES:

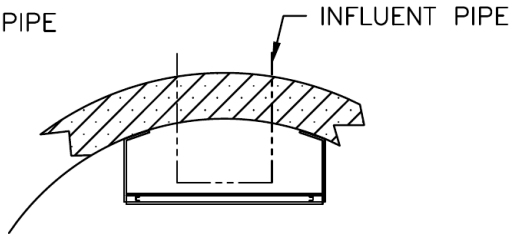
- ALL ALUMINUM CONSTRUCTION
- PERFORATED SCREENING STYLE
- EXTRUDED ALUMINUM GUIDERAIL SYSTEM
- OTHER SIZES AVAILABLE
- MODEL B4A STAINLESS STEEL BASKET AVAILABLE
- STAINLESS STEEL PIPE RAIL SYSTEM AVAILABLE
- 3 YEAR GUARANTEE

REQUIRED INFORMATION:

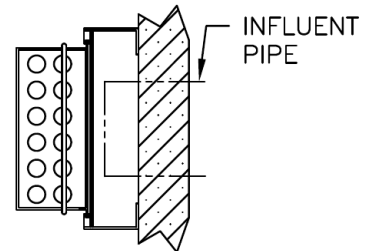
- BASIN DIAMETER
- RAIL LENGTH
- LENGTH OF STANDOFF (IF REQUIRED)



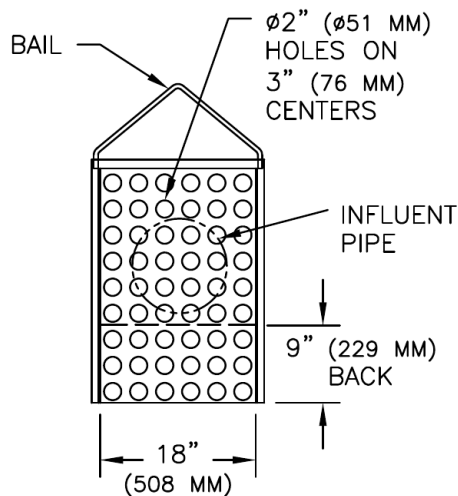
RAILS MOUNTED IN TANK
W/FLUSH INFLUENT PIPE



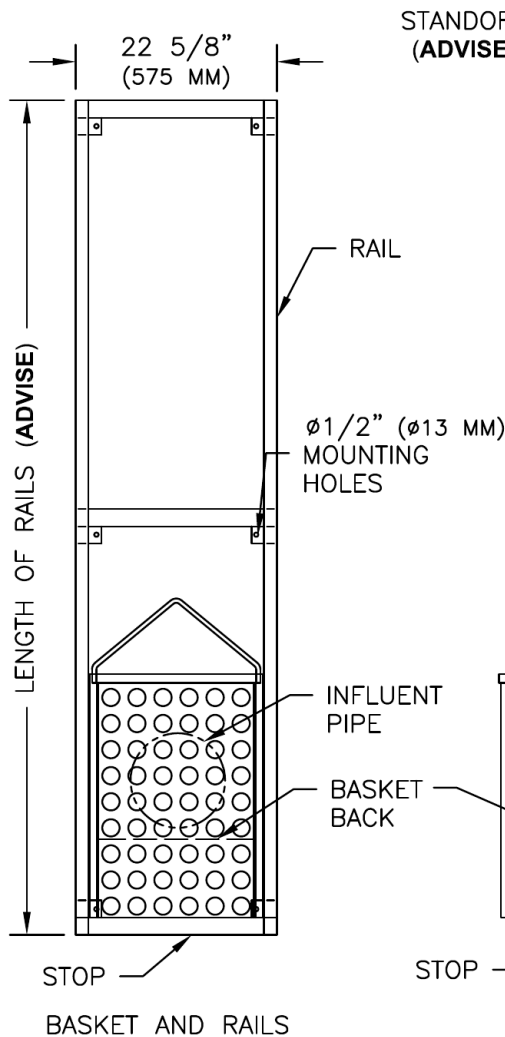
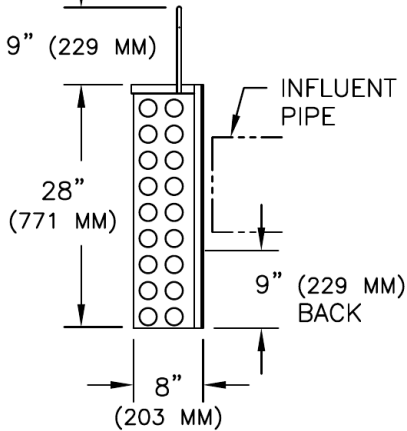
RAILS MOUNTED IN ROUND
BASIN



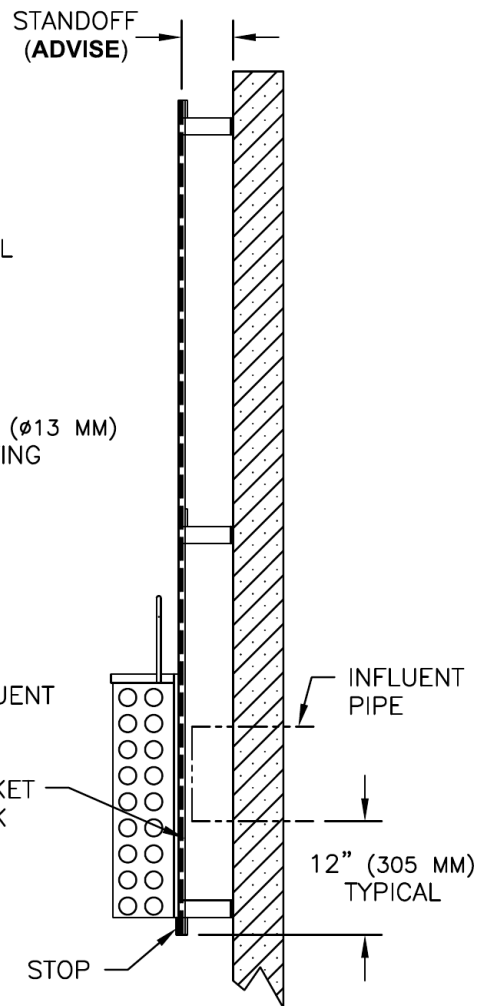
RAILS MOUNTED IN
RECTANGULAR BASIN



BASKET



BASKET AND RAILS



Series B1B Trash Basket

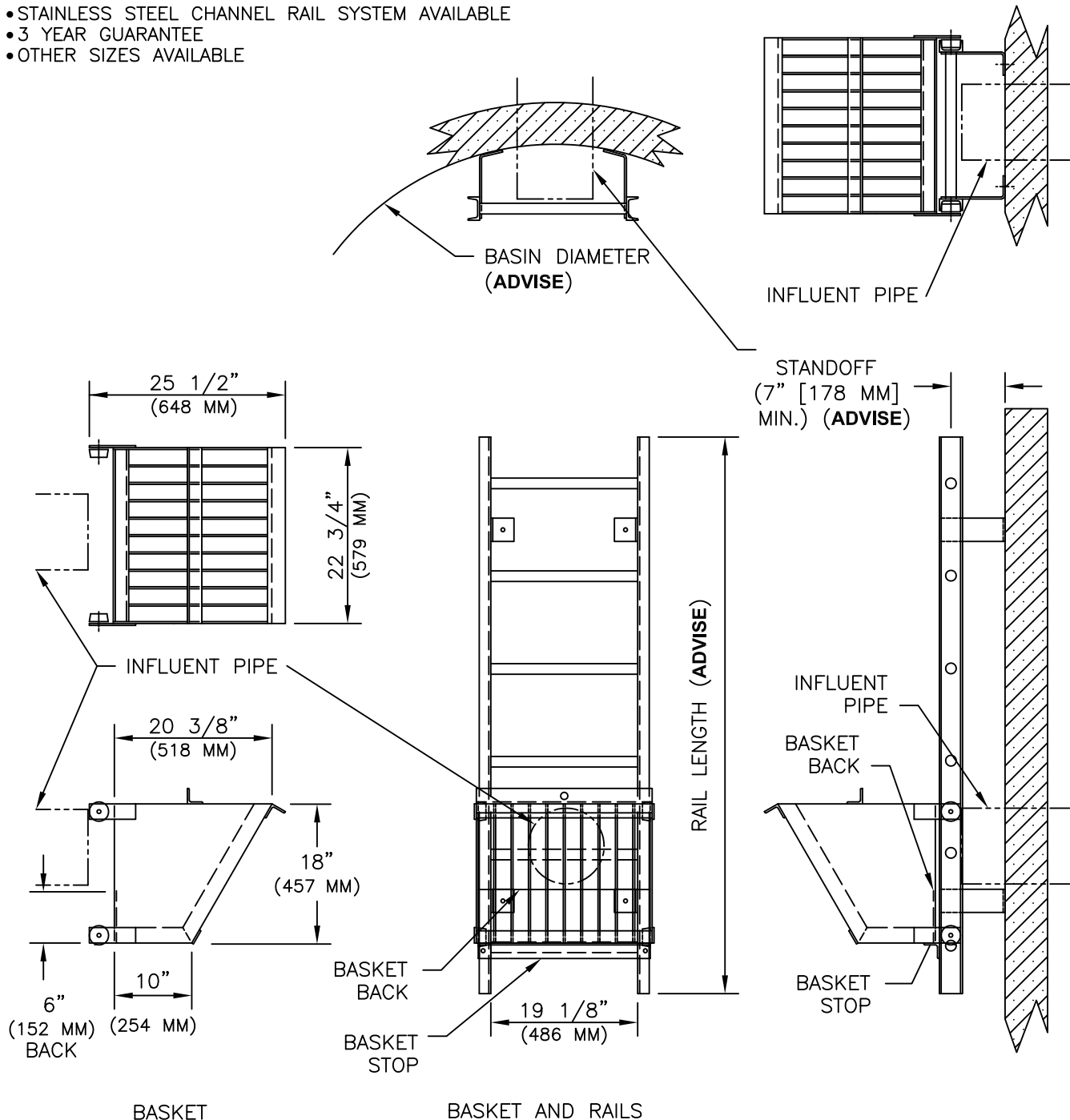


STANDARD FEATURES:

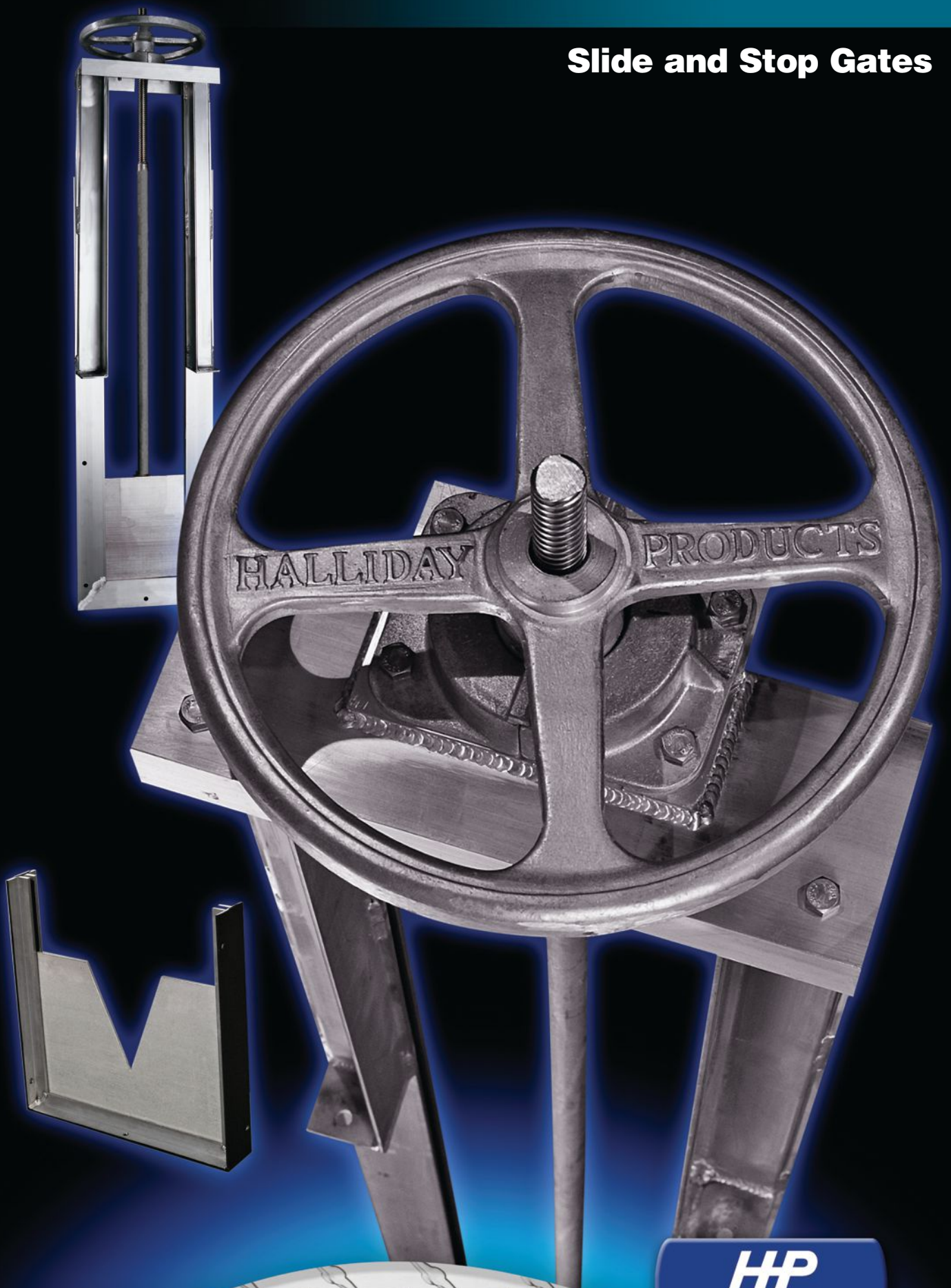
- ALL ALUMINUM BASKET AND RAILS
- SOLID ALUMINUM WHEELS AND STAINLESS STEEL AXLES
- HEAVY DUTY LADDER/GUIDERAIL COMBINATION
- 1 3/8" TYPE "D" RUNG WITH FLAT SLIP RESISTANT SURFACE
- BAR SCREEN STYLE BASKET
- AVAILABLE W/O LADDER RUNGS (GUIDE RAILS ONLY)
- MODEL B4B STAINLESS STEEL BASKET AVAILABLE
- STAINLESS STEEL CHANNEL RAIL SYSTEM AVAILABLE
- 3 YEAR GUARANTEE
- OTHER SIZES AVAILABLE

REQUIRED INFORMATION:

- BASIN DIAMETER
- RAIL LENGTH
- STANDOFF LENGTH (7" [178 MM] MIN. FOR LADDER COMBO)



Slide and Stop Gates



HP

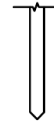
HALLIDAY PRODUCTS

Series G1A and G1B Slide Gates

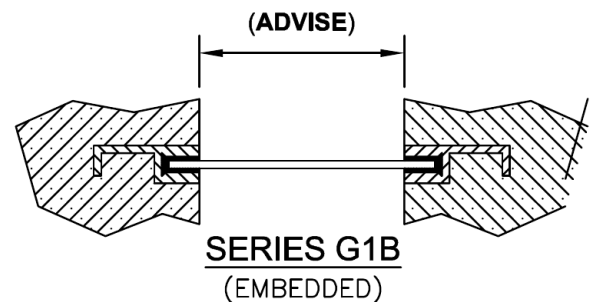
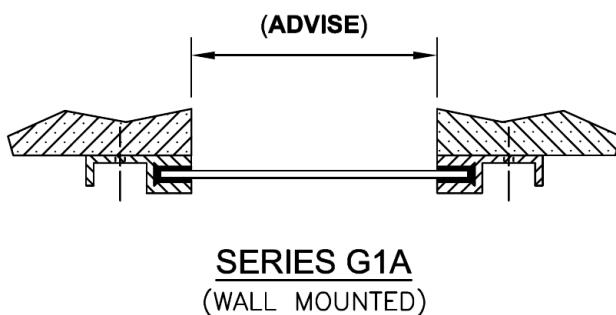
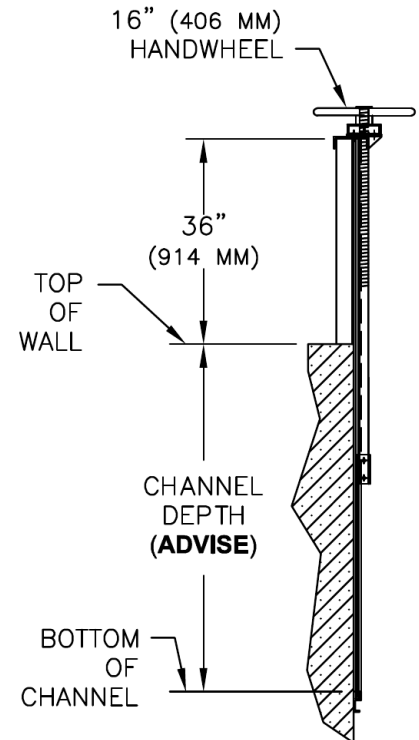
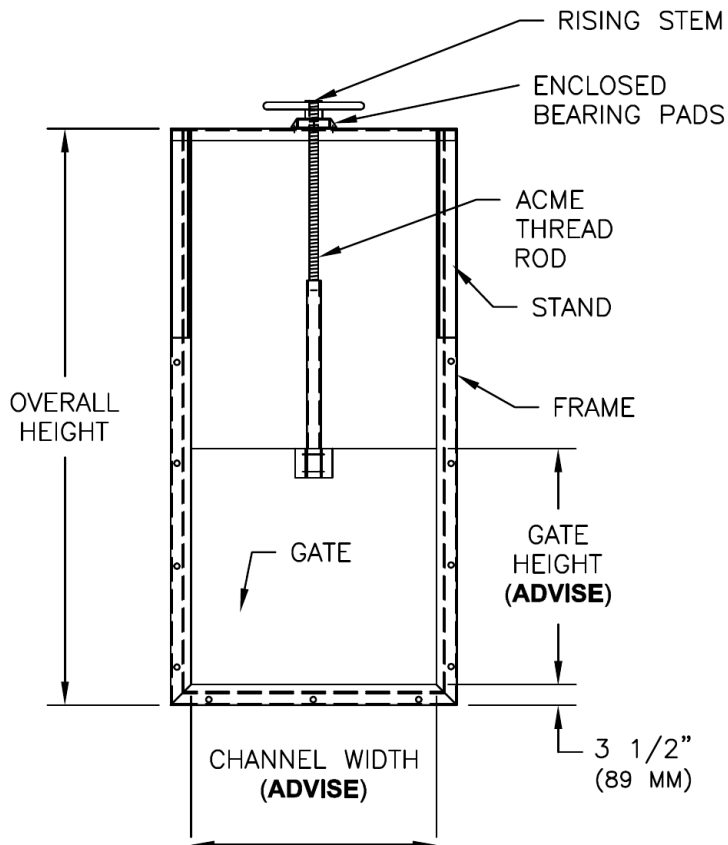


STANDARD FEATURES:

- ONE-PIECE 6061-T6 EXTRUDED ALUMINUM FRAME
- ONE-PIECE POLYMER GUIDE
- 1/4" (7 MM) THICK 6061-T6 ALUMINUM GATE REINFORCED AS REQUIRED TO DEFLECT NO MORE THAN 1/360th OF SPAN
- LOW COEFFICIENT OF FRICTION
- DEEP SEATING FOR OPTIMUM TRACKING
- STANDARD 16" (406 MM) ALUMINUM HANDWHEEL
- POLYMER BEARING PADS
- Ø1 1/8" (Ø29 MM) S.STL. TRIPLE LEAD ACME ROD
- BRASS LIFTING NUT
- STAINLESS STEEL HARDWARE THROUGHOUT
- NON-OZONE DEPLETING BITUMINOUS COATING
- OPTIONAL CLEAR STEM COVER
- 3 YEAR GUARANTEE



GATE BOTTOM

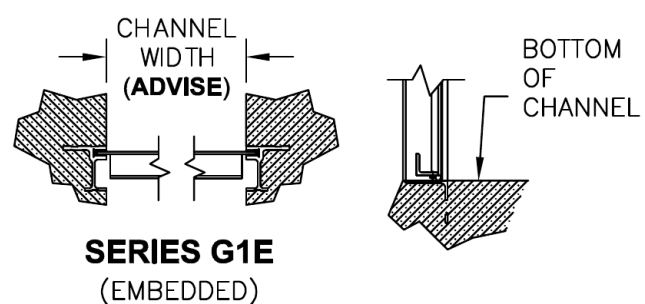
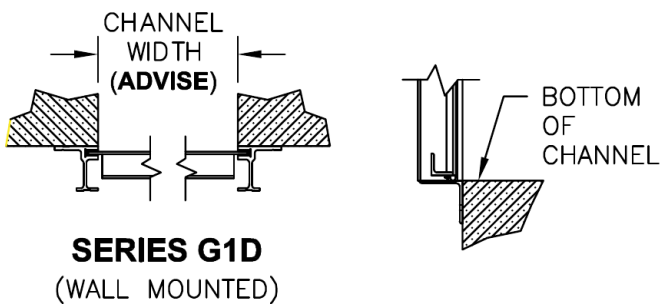
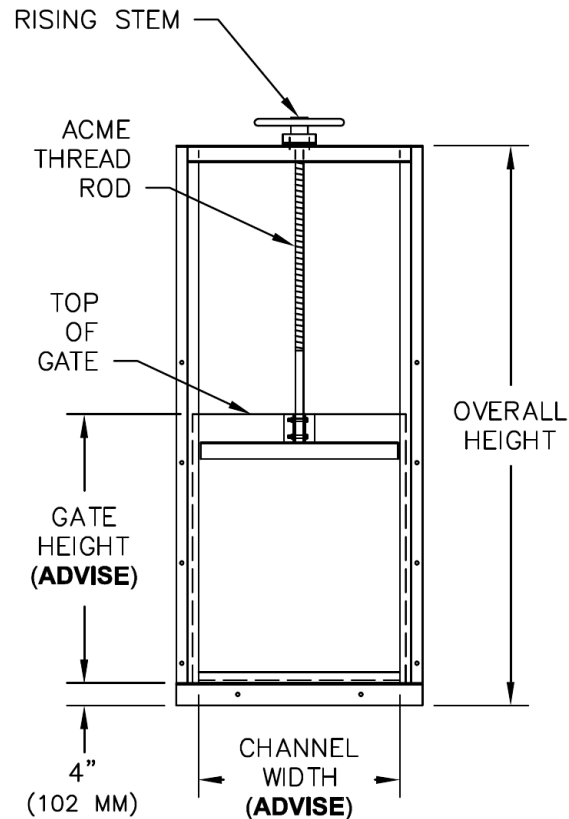
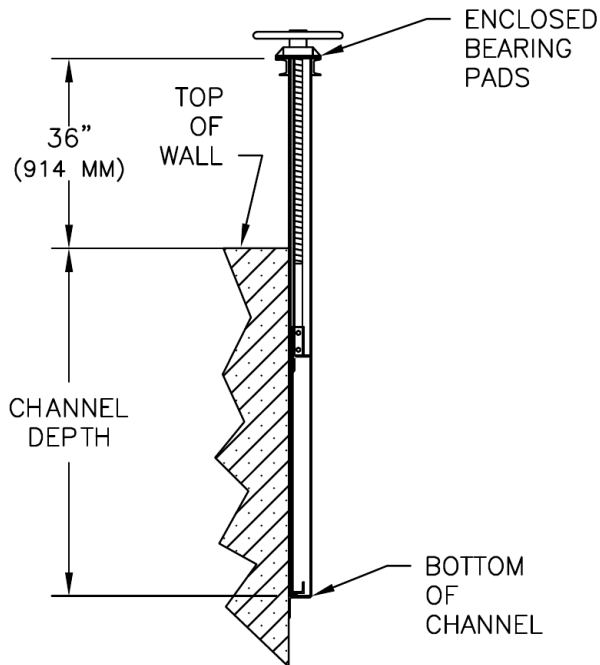
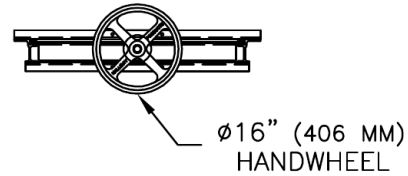


Series G1D and G1E Slide Gates



STANDARD FEATURES:

- ONE-PIECE 6061-T6 EXTRUDED ALUMINUM FRAME WEIGHING 4 LBS./FT. (6 KG./METER)
- DUAL SLOT DESIGN
- ONE-PIECE POLYMER GUIDE
- 1/4" (7 MM) THICK 6061-T6 ALUMINUM GATE REINFORCED AS REQUIRED TO DEFLECT NO MORE THAN 1/360th OF SPAN
- LOW COEFFICIENT OF FRICTION
- DEEP SEATING FOR OPTIMUM TRACKING
- STANDARD 16" (406 MM) ALUMINUM HANDWHEEL
- POLYMER BEARING PADS
- $\phi 1 \frac{1}{2}$ " ($\phi 38$ MM) STAINLESS STEEL ACME ROD
- BRASS LIFTING NUT
- STAINLESS STEEL HARDWARE THROUGHOUT
- NON-OZONE DEPLETING BITUMINOUS COATING
- OPTIONAL CLEAR STEM COVER
- 3 YEAR GUARANTEE



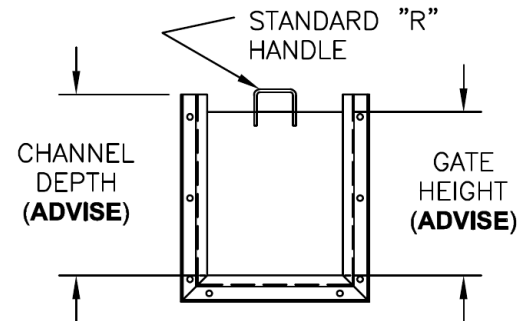
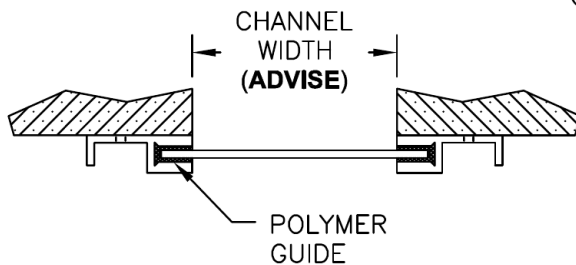
Series N1 Stop Gate



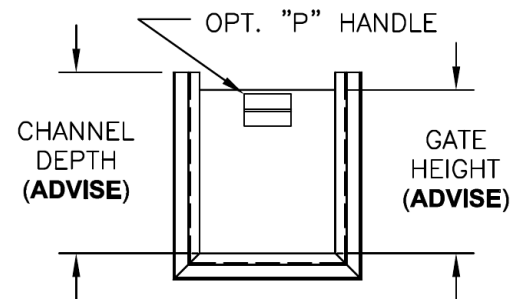
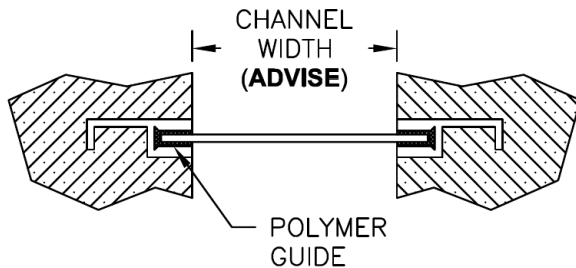
STANDARD FEATURES:

- ONE-PIECE 6061-T6 EXTRUDED ALUMINUM FRAME
- ONE-PIECE, WRAP AROUND POLYMER GUIDE
- 1/4" (7 MM) THICK 6061-T6 ALUMINUM GATE REINFORCED TO DEFLECT NO MORE THAN 1/360th OF SPAN
- LOW COEFFICIENT OF FRICTION
- NON-OZONE DEPLETING BITUMINOUS COATING ON FRAME
- DEEP SEATING FOR OPTIMUM TRACKING
- STANDARD "R" HANDLE OR OPTIONAL "P" HANDLE
- SERIES N1A AND N1C SUPPLIED WITH $\phi 1/2"$ (13 MM) MOUNTING HOLES AND S.STL. MOUNTING HARDWARE
- 3 YEAR GUARANTEE

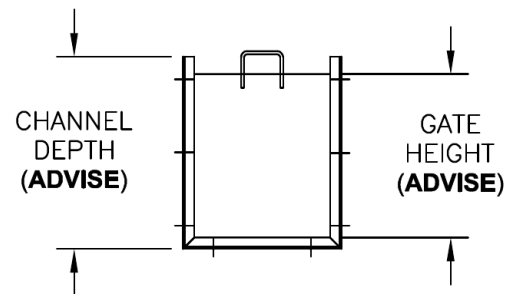
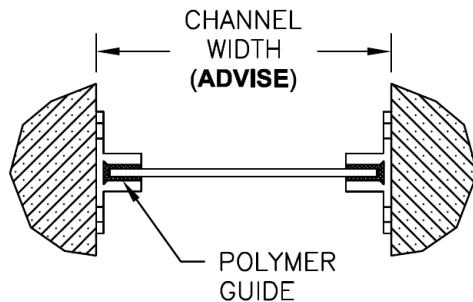
SERIES N1A (WALL MOUNTED)



SERIES N1B (EMBEDDED)



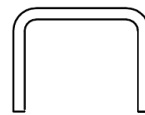
SERIES N1C (IN-CHANNEL MOUNTED)



GATE BOTTOM



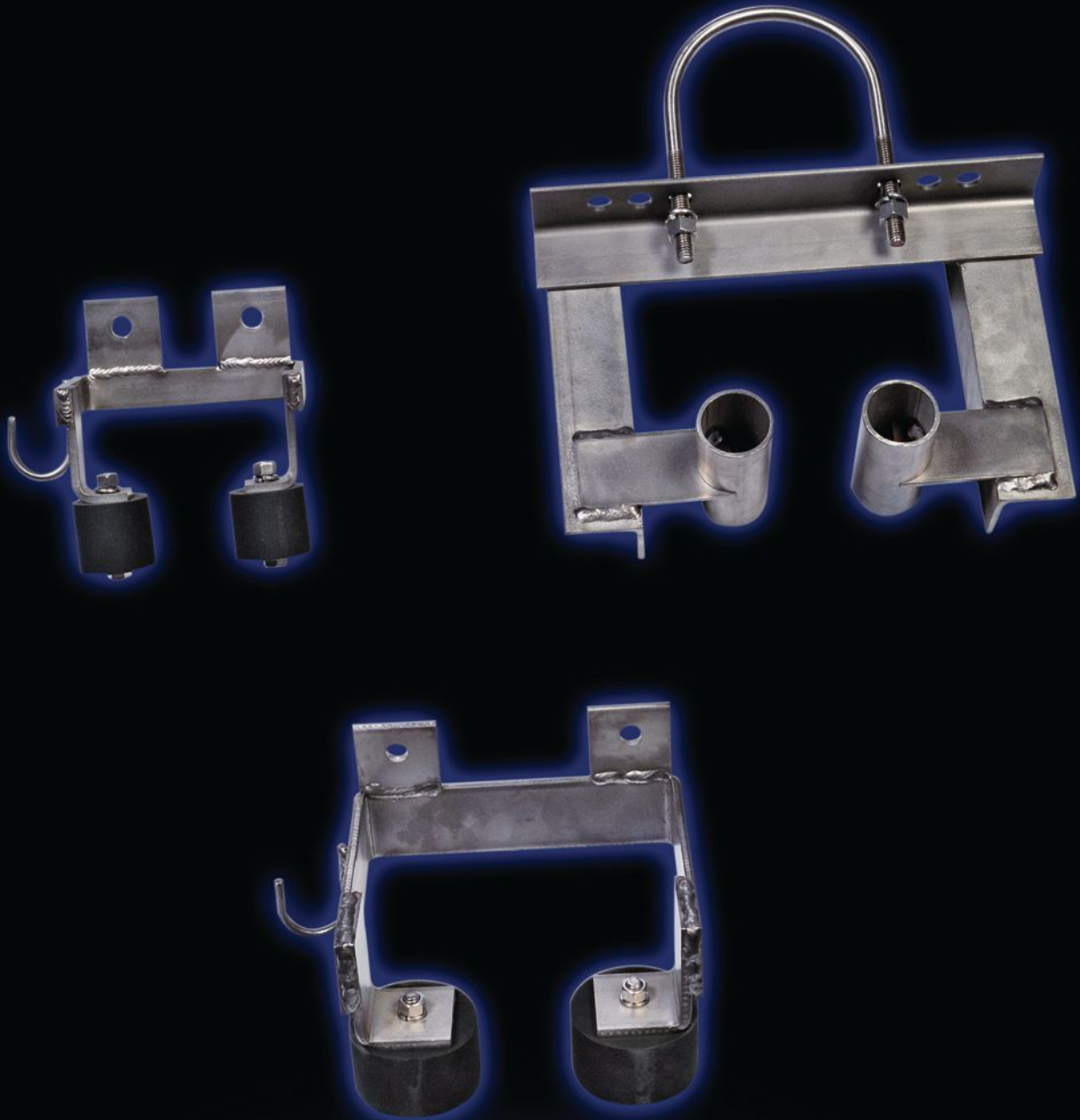
STANDARD
"R" HANDLE



OPTIONAL
"P" HANDLE



Guide Rail Brackets



Series U Guide Rail Brackets



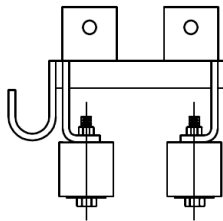
STANDARD FEATURES:

- AVAILABLE IN TYPE 304 OR 316 STAINLESS STEEL
 - SINGLE AND DOUBLE RAIL DESIGNS
 - UPPER AND INTERMEDIATE BRACKETS AVAILABLE
 - MANUFACTURED FOR ALL SUBMERSIBLE PUMPS
 - MOST UPPER BRACKETS PROVIDED WITH NEOPRENE BUSHINGS WITH COMPRESSION STEMS
- HALLIDAY PRODUCTS INC. MANUFACTURES A WIDE VARIETY OF STAINLESS STEEL UPPER AND INTERMEDIATE GUIDE RAIL BRACKETS THAT ARE COMPATIBLE WITH ALL MAJOR SUBMERSIBLE PUMP LINES. TO INSURE PROPER PRICING AS WELL AS FIT AND ALIGNMENT, THE FOLLOWING INFORMATION IS REQUIRED:
- PUMP MANUFACTURER
 - GUIDE RAIL SPACING
 - GUIDE RAIL SIZE
 - T-304 OR T-316 STAINLESS STEEL

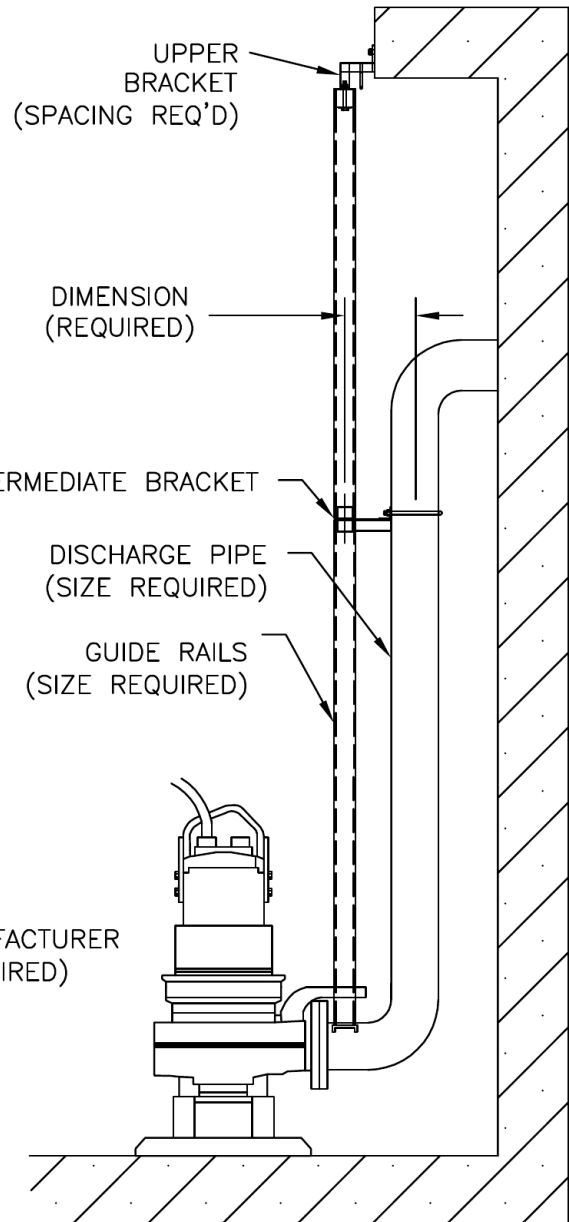
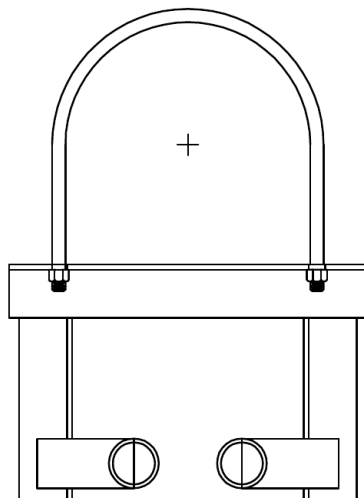
FOR INTERMEDIATE BRACKETS:

- DISCHARGE PIPE SIZE
- CENTER LINE OF DISCHARGE TO CENTER
- LINE OF GUIDE RAIL DIMENSION

UPPER GUIDE RAIL BRACKET



INTERMEDIATE GUIDE RAIL BRACKET



Accessories

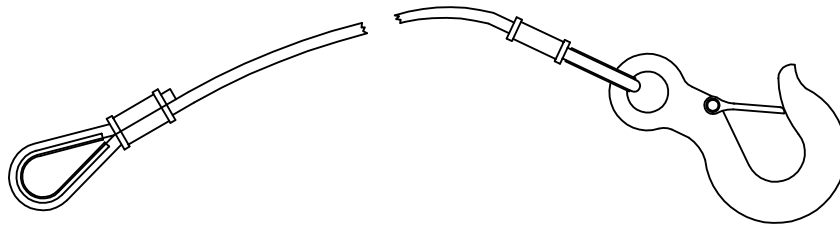


Series K4A Cable Assembly



STANDARD FEATURES:

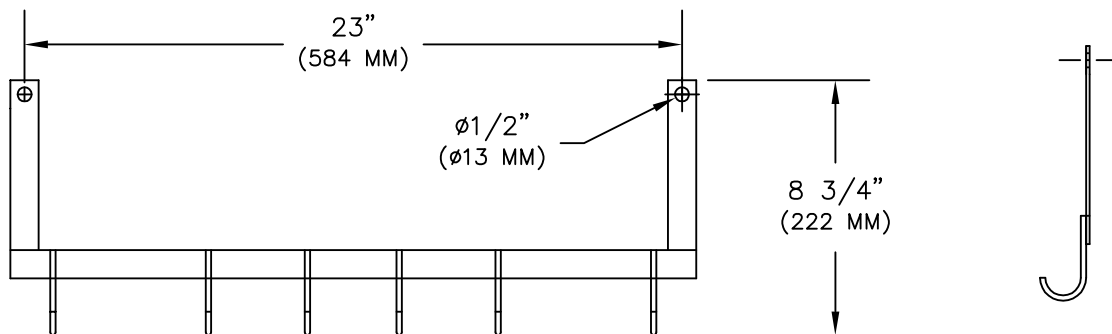
- TYPE 304 STAINLESS STEEL CONSTRUCTION
- $\phi 1/4"$ ($\phi 7$ MM) CABLE W/1285 LBS. (583 KG.) SAFE LOAD
- 1 TON GALV. EYE HOOK W/S.STL. LATCH
- AVAILABLE IN TYPE-316 STAINLESS STEEL
- VARIOUS HOOKS AND SHACKLES AVAILABLE
- ALSO AVAILABLE IN $3/16"$ (5 MM) AND $3/8"$ (10 MM) DIAMETER, CONSULT FACTORY



Series J4A Cable Holder

STANDARD FEATURES:

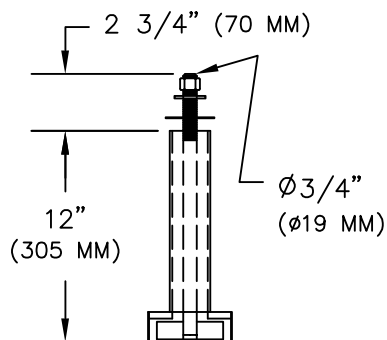
- TYPE-304 STAINLESS STEEL CONSTRUCTION
- 6 HOOKS STANDARD – FOR FLOAT SWITCHES
- AVAILABLE IN TYPE-316 STAINLESS STEEL



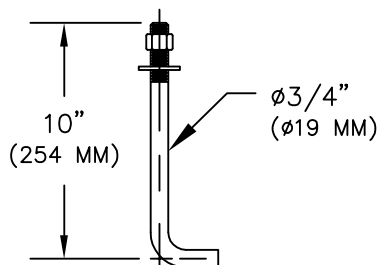
Series A Anchor Bolt

STANDARD FEATURES:

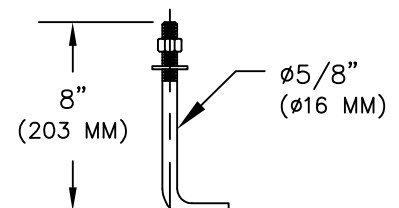
- TYPE 316 STAINLESS STEEL CONSTRUCTION
- SPECIAL SIZES AVAILABLE



MODEL A6E



MODEL A6C



MODEL A6B

**A few of the places
our products can be found...**



www.HallidayProducts.com

[illegible]



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sales@HallidayProducts.com

BRACKETS

ACCESSORIES

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F1R ACCESS DOORS

H1W ACCESS DOORS

S2R ACCESS DOORS

