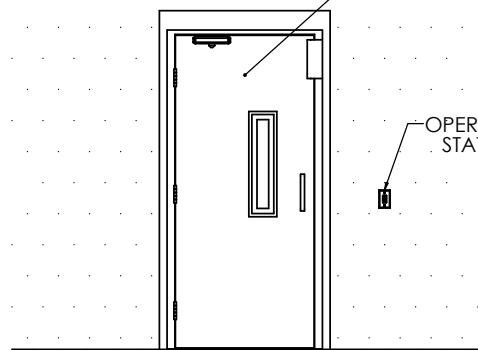
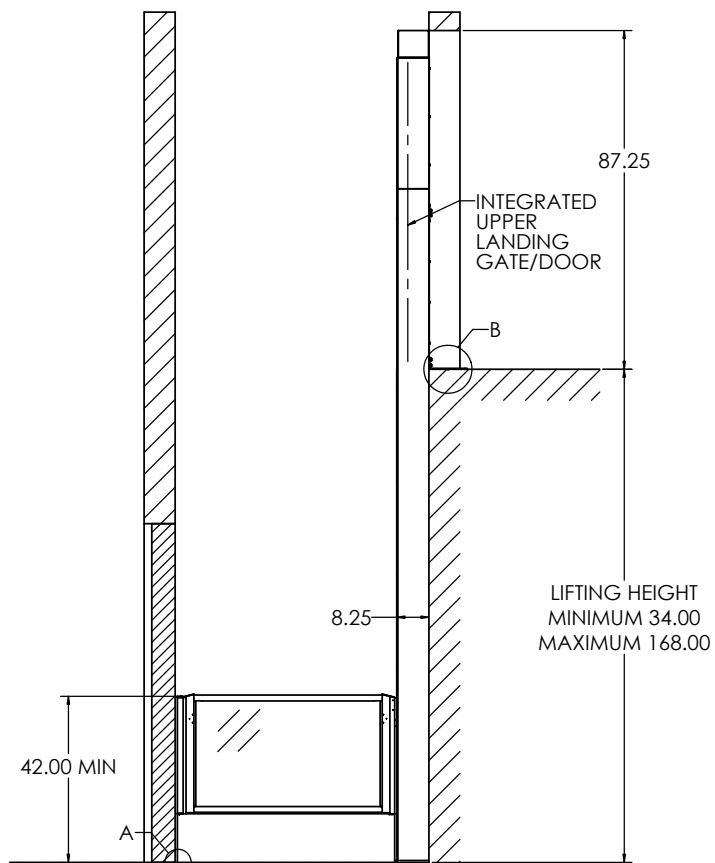


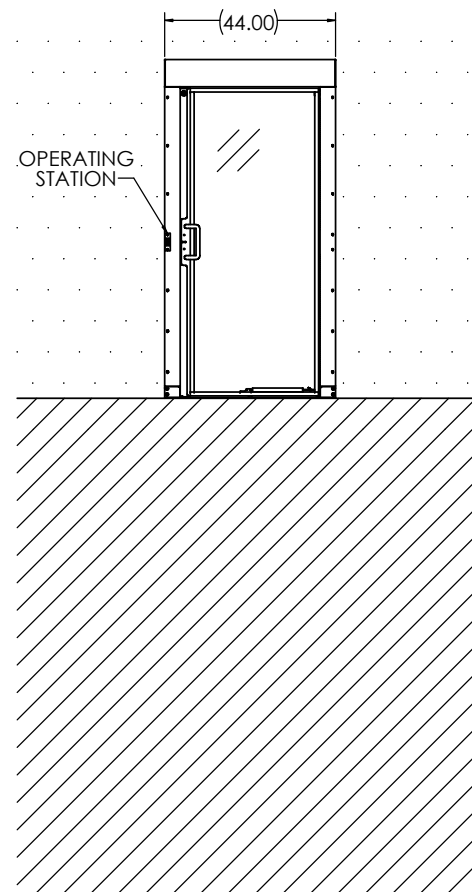
SEE OTHER CLARITY LIFT MODELS (16C, 16D, 16E, ETC.) FOR OTHER ENTRY/EXIT AND ENCLOSED/SHAFTWAY OPTIONS
SEE OPTIONS BROCHURE AND/OR SHEET 3 FOR VARIOUS CONFIGURATION OPTIONS



FRONT (LOWER LANDING)




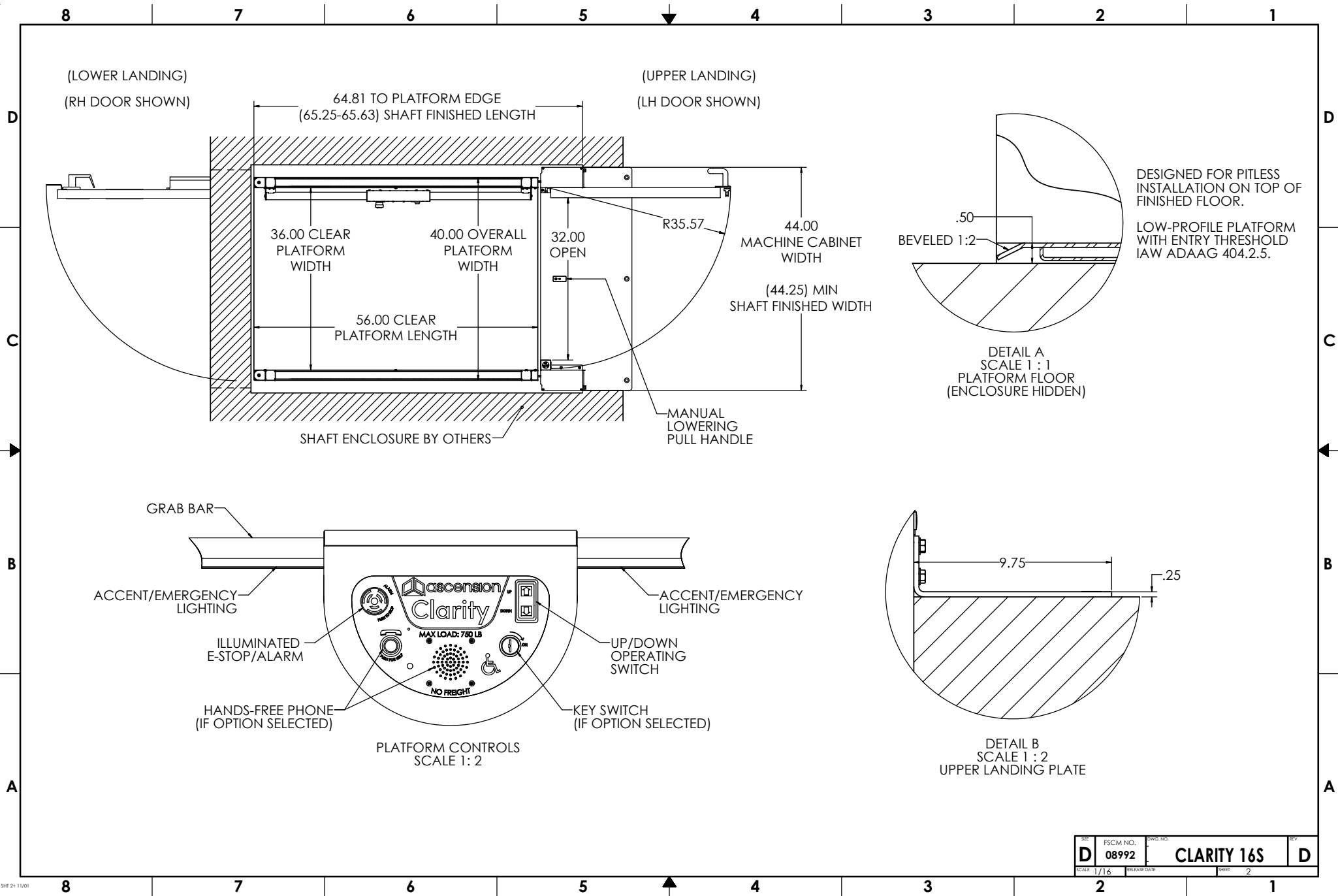
SIDE (INTERIOR VIEW)



REAR (UPPER LANDING)

ASCENSION CLARITY 16S VERTICAL PLATFORM WHEELCHAIR LIFT

INTERPRET DIMENSIONS AND TOLERANCES (AWA 1114.304-1994)		COMMENTS DRAWN: _____ DATE: 11/13/2023 CHECKED: _____ UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (SI) TOLERANCES: ANGLES: 0.5°		P.O. BOX 4000 TUCSON, ARIZONA 85717-0000 	
DECIMALS: .0000 ANGLES: 0.5° DO NOT SCALE DRAWING		S.APPLEY APPROVED By Philip Strohecker at 11:14 am, Nov 13, 2023		CLARITY 16S SHAFTWAY, STRAIGHT-THROUGH	
REV: 0 DATE: 11/13/2023		REV: 0 FSCM NO. 08992 SCALE: 1/16 DATE: 11/13/2023		REV: 0 CLARITY 16S SCALE: 1/16 DATE: 11/13/2023	



REV	D	FSCM NO. 08992	DWG. NO.	CLARITY 16S	REV	D
SCALE	1/16	RELEASE DATE		SHEET	2	

CONFIGURATION

TOTAL TRAVEL	34" TO 168"
ENTRY/EXIT CONFIG.	STRAIGHT THROUGH
ENCLOSURE PROVIDED	NONE (BY OTHERS)

LOWER LANDING	
DOOR TYPE	HOISTWAY DOOR (BY OTHERS)
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL MOUNT
CALL STATION KEYED	YES/NO

UPPER LANDING	
DOOR TYPE	46.5" GATE/ 80" DOOR
HANDING	RH/LH
DOOR OPERATOR	YES/NO
CALL STATION TYPE	WALL/FRAME MOUNT
CALL STATION KEYED	YES/NO

PLATFORM	
KEY SWITCH	YES/NO
HANDS-FREE PHONE	YES/NO
PLATFORM LIGHTING	STANDARD
SLIP-RESISTANT FLOOR	STANDARD

COLOR	<input type="checkbox"/> SILVER <input type="checkbox"/> BLACK <input type="checkbox"/> CUSTOM: _____
WINDOWS	PLEXIGLAS, CLEAR
OUTDOORS	YES/NO
PIT SWITCH	YES/NO
MANUAL LOWERING	STANDARD
AUDIBLE ALARM	STANDARD
BATTERY BACKUP	STANDARD

SPECIFICATIONS

DESCRIPTION	SHAFTWAY VERTICAL PLATFORM WHEELCHAIR LIFT
CODE COMPLIANCE	ASME A18.1, ASME A17.5, NFPA 70 (NEC), ANSI A117.1, ADASAD (ADAAG)
APPLIED VERSION	ASME A18.1-2020
MODEL	CLARITY 16S
RATED LOAD	750 LB
RATED SPEED	20 FT/MIN
DUTY CYCLE	168 CYCLE-FT/HR (12 CYCLES/HR MINIMUM)
PLATFORM SIZE	36" X 56"
POWER SUPPLY	27VDC, 500W (18.5A)
BATTERIES	12V, 35A-h AGM SLA (2X)
CONTROL SYS.	24VDC
MOTOR	24VDC, 3 HP
DRIVING MEANS	2:1 CHAIN-HYDRAULIC

PLUNGER (2X)	1.25" SOLID
CYL. I.D. (2X)	2.00"
CYL. O.D. (2X)	2.38"
STROKE (2X)	(VARIES)

WORKING PSI	400 PSI
RELIEF PSI	600 PSI (1.5 X WP)

CHAIN TYPE	4X ANSI #50 ROLLER CHAIN
CHAIN STRENGTH	5045 LBF EACH
SAFETIES	2X TYPE A

DOOR LOCKS	IDEC HS5L
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PROVISIONS BY OTHERS

GENERAL

HOISTWAY: HOISTWAY MUST BE SQUARE AND PLUMB WITHIN 1/4" TO ENSURE PROPER LIFT OPERATION. SHAFT DIMENSIONS PROVIDED FOR REFERENCE ONLY. HOISTWAY MUST MEET ASME A18.1 AND ALL APPLICABLE STATE AND LOCAL CODES. HOISTWAY IS TO BE PROVIDED BY OTHERS.

DOORS: INSTALLATION OF DOORS TO MEET ALL APPLICABLE CODES. HOISTWAY DOORS TO BE PROVIDED BY OTHERS (SEE ATTACHED FOR RECOMMENDATION).

REAR CABINET CLOSURE: VERTICAL SURFACE BEHIND MACHINE CABINET SHALL HAVE STRENGTH AND STIFFNESS EQUIVALENT TO 14GA (.08) SHEET STEEL.

DIMENSIONS: TOTAL TRAVEL HEIGHT MUST BE WITHIN $\pm 3/8"$ OF NOMINAL. VERIFY ALL DIMENSIONS AND IMMEDIATELY REPORT ANY DISCREPANCIES.

FLOOR: FLOOR BENEATH UNIT AND DOOR SWINGS MUST BE FLAT AND LEVEL WITHIN 1/8". OUTDOORS, DRAINAGE SHALL NOT FLOW THROUGH OR INTO UNIT.

PIT/RAMP: DO NOT PROVIDE PIT OR RAMP. LIFT DESIGNED WITH LOW-PROFILE PLATFORM FLOOR FOR DIRECT ENTRY IAW ADAAG 404.2.5.

OVERHEAD CLEARANCE: MUST COMPLY WITH ALL APPLICABLE CODES.

CONSTRUCTION COORDINATION: OWNER/AGENT RESPONSIBLE FOR ALL MASONRY, CARPENTRY, DRYWALL, PATCHING, AND FINISHING WORK NEEDED PRIOR TO AND FOLLOWING LIFT INSTALLATION.

STRUCTURAL: SUPPORTING STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO SAFELY SUPPORT APPLIED LOADS IN ACCORDANCE WITH "CLARITY LOADING" DIAGRAM.

ELECTRICAL

GENERAL: ALL WIRING SHALL COMPLY WITH NFPA 70 (NEC).

POWER: 120VAC, 60HZ, 6A, 1PH CIRCUIT WITH DISCONNECT (SEE BELOW).

CONCEALED REAR ACCESS: CLEAR SPACE 7.25" X 7.50" (W X H) BEHIND LIFT AVAILABLE FOR WIRE ENTRY. SPACE CENTERED 10.88" RIGHT OF LIFT CENTERLINE AND NOMINALLY 6.88" ABOVE LOWER LANDING FLOOR.

SIDE ACCESS: TWO 1/2-14 NPSM THREADED HOLES ARE PROVIDED ON BOTH SIDES OF THE MACHINE CABINET. HOLES ARE NOMINALLY 2.25" AND 3.50" ABOVE LOWER FLOOR AND 1.00" FROM REAR VERTICAL WALL.

MAIN DISCONNECT SWITCH: OTHERS SHALL PROVIDE LOCKABLE FUSED DISCONNECT SWITCH IAW NFPA 70. SWITCH TO INCLUDE ADDITIONAL POLE OR CONTACT FOR DISCONNECTION OF CONTROLLER FROM 24V BACKUP SUPPLY.

LIGHTING: 54 LX MIN. AT PLATFORM AND LANDINGS.

ADDITIONAL AC CONNECTIONS: ADDITIONAL AC CONNECTIONS REQUIRED FOR: VENTILATION SYSTEM (IF EQUIPPED), 120VAC 1.3A 60HZ 1PH.

DOOR OPERATOR(S) (IF BY OTHERS), POWER REQ. PER MANUFACTURER

PHONE: STANDARD PHONE CABLE WITH RJ11 PLUG CONNECTOR REQUIRED FOR OPTIONAL (ANALOG) HANDS-FREE PHONE, WHERE PROVIDED.

REV	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY 16S	D
SCALE	1/16"	SHEET	3

CLARITY LOADING - OPPOSING ENTRY & EXIT (16E, 16S)

(GENERIC APPLICATION DEPICTED; ENCLOSURE NOT SHOWN)

MACHINE CABINET ANCHORS				
ANCHORING REQUIREMENT	ANCHOR LOCATION* (±.38) [IN]	# OF ANCHORS	TYPE (NEXT SHEETS)	APPLICABILITY
ANCHOR AT ONE OF TOP LOCATIONS.	UPPER F.F.	3	A	CONCRETE LANDING
	1" BELOW	6	B	WOOD LANDING
OPTIONAL (USE OF OPTIONAL ANCHORS RECOMMENDED FOR MAXIMUM RIGIDITY)	145.50	2	C	TRAVEL > 148.5"
	121.50			TRAVEL > 124.5"
	97.50			TRAVEL > 100.5"
	73.50			TRAVEL > 76.5"
	49.50			TRAVEL > 52.5"
	25.50			ALL LIFTS
ANCHOR AT ONE OF BOTTOM LOCATIONS	6.00	2	C	ALL LIFTS
	LOWER F.F.	2	D	H.L. PKG ONLY
ENCLOSURE ANCHORS (16E MODEL ONLY)				
REQUIRED IF PRESENT	LOWER F.F.	2	F	16E ONLY

* ACTUAL LOCATIONS OF WALL ANCHORS MAY VARY AS MUCH AS ±3/8" FROM VALUES GIVEN ABOVE. MOUNTING STRUCTURE MUST BE ABLE TO ACCOMMODATE THIS VARIABILITY.

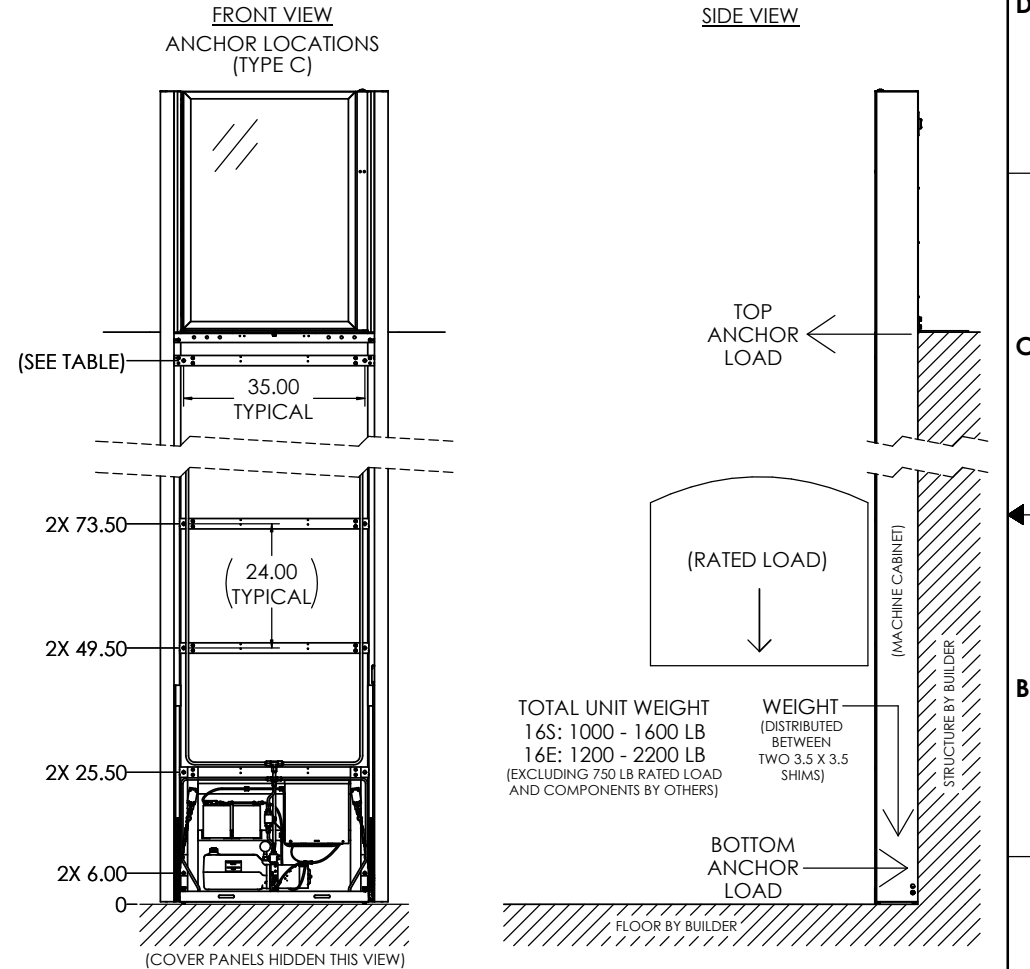
MAX LOAD <u>PER ANCHOR</u> BY TRAVEL HEIGHT [LBF]**							MAX TOTAL HORIZONTAL LOAD [LBF]** (FORCE ON STRUCTURE)
		ANCHOR TYPE <small>(SEE TABLE ABOVE)</small>					
		A	B	C	D	F	
TRAVEL	34.0 – 52.5	610	SPECIAL†	949	777	200	2000
	52.5 – 76.5	367	188	563	498	200	1250
	76.5 – 100.5	242	123	369	339	200	850
	100.5 – 124.5	181	91	274	258	200	675
	124.5 – 148.5	144	73	218	208	200	550
	148.5 – 168.0	120	60	181	174	200	475

** LOADS LISTED ASSUME STATIC LOADING AND DO NOT INCLUDE WIND, SEISMIC, OR SAFETY FACTOR.

† WHEN USED, REQUIRES 6X TYPE B ANCHORS WITH 289 LBF MAX LOAD, 2X TYPE C ANCHORS AT 49.50 LOCATION WITH 185 LBF MAX LOAD, AND ANCHORING AT ONE OF THE BOTTOM LOCATIONS.

ADDITIONAL NOTES:

1. ANCHORS PROVIDED BY ASCENSION FOR COMMON MOUNTING APPLICATIONS.
(SEE NEXT SHEETS FOR DETAILS).
STAINLESS-STEEL CONCRETE ANCHORS PROVIDED FOR OUTDOOR APPLICATIONS.



TOTAL UNIT WEIGHT
16S: 1000 - 1600 LB
16E: 1200 - 2200 LB
(EXCLUDING 750 LB RATED LOAD
AND COMPONENTS BY OTHERS)

WEIGHT
(DISTRIBUTED
BETWEEN
TWO 3.5 X 3.5
SHIMS)

INTERPRET DIMENSIONS AND TOLERANCES (AW AND Y14.5M-1994) UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES (MM) TOLERANCES DECIMALS XXX.X - .015 XXX.X - .010		DATE 8-26-20	TACSON, ARIZONA 85717-0000	
DRAWN S. APPLEBY		DATE 8-26-20	ASCENSION®	
CHECK By Philip Brobeck at 9:45 am, Sep 17, 2020		CLARITY LOADING STRAIGHT THROUGH		
DO NOT SCALE DRAWING		FSCM NO. 08992		
SCALE 1/12		SHEET 1 OF 3		

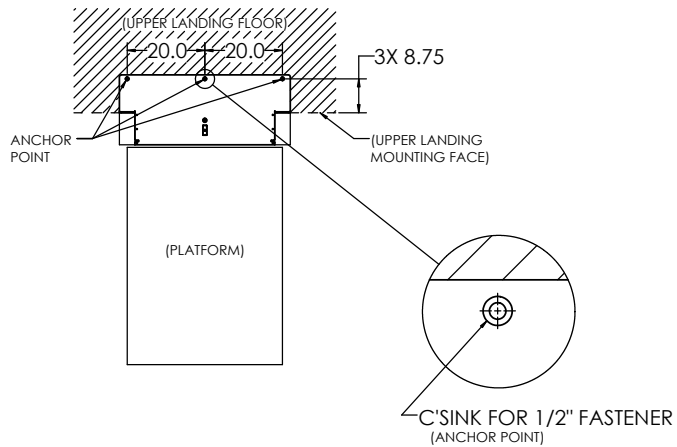
ANCHOR LOCATION TYPE: A

ANCHORS PROVIDED - FOR CONCRETE LANDINGS ONLY:

3X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

3X 1/2-13 X 1" FLAT HEAD SCREWS

(FILLERS FOR ANCHOR HOLES PROVIDED FOR WOOD LANDINGS)



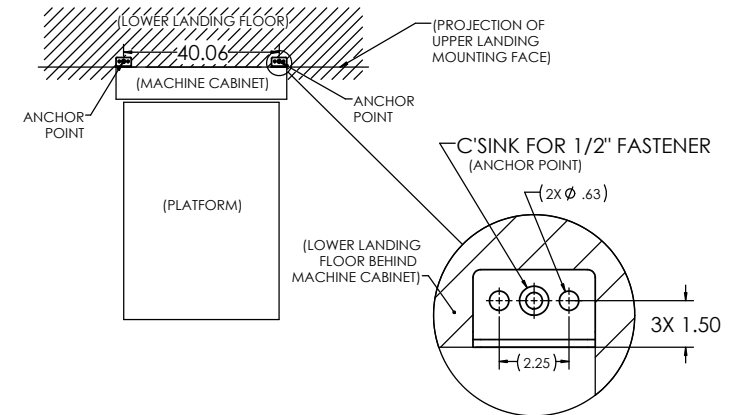
ANCHOR LOCATION TYPE: D

(HOLLOW LANDING PACKAGE [H.L. PKG] ONLY)

ANCHORS PROVIDED - FOR NORMAL-WEIGHT CONCRETE FLOOR ONLY:

2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

2X 1/2-13 X 1" FLAT HEAD SCREWS



ANCHOR LOCATION TYPE: C

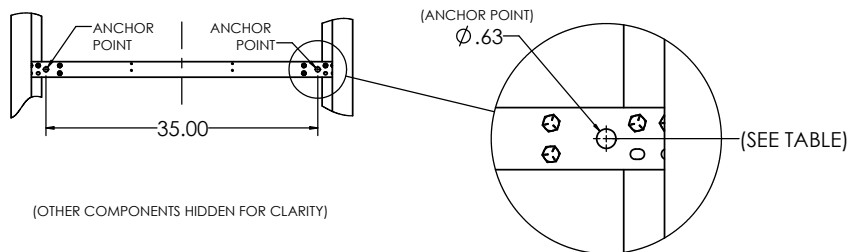
ANCHORS PROVIDED - FOR CONCRETE OR WOOD STRUCTURES:

2X (EACH) 1/2" X 4" CONCRETE ANCHORS

(EX: SIMPSON STRONG-TIE P/N THD50400H, THD50400H6SS, OR THD50400H4SS)

2X (EACH) 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)

(SEE NEXT SHEET FOR SUGGESTED WALL CONSTRUCTION)



ANCHOR LOCATION TYPE: F

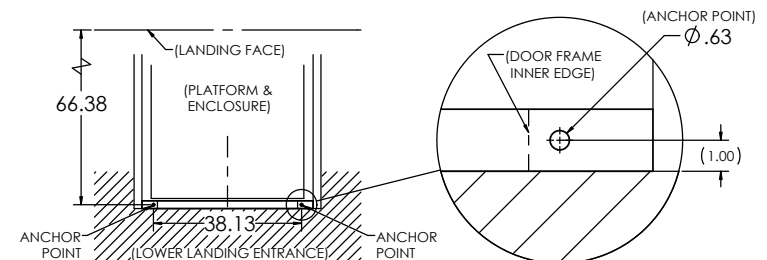
(CLARITY 16E ONLY)

ANCHORS PROVIDED - FOR CONCRETE OR WOOD FLOOR:

2X 1/2" X 2" DROP-IN CONCRETE ANCHORS, 1/2-13 INTERNAL THREAD
(EX: SIMPSON STRONG-TIE P/N DIAB50, DIA506SS, OR DIA50SS)

2X 1/2-13 X 1" SCREWS

2X 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



REV	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	E
SCALE	1/12	RELEASE DATE	SHEET 2

8

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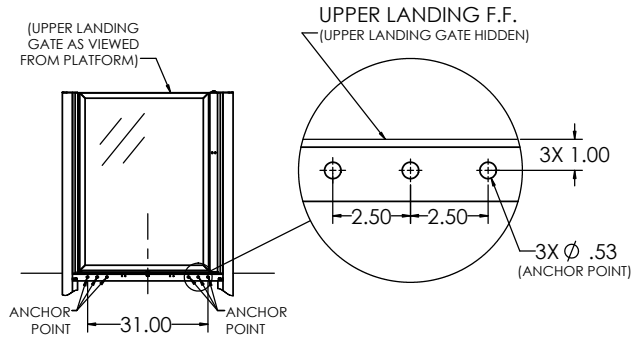
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1

ANCHOR LOCATION TYPE: B

ANCHORS PROVIDED - FOR WOOD STRUCTURES ONLY:
6X 1/2" X 4" LAG SCREWS FOR WOOD (INDOOR ONLY)



REVISIONS			
ZONE	DATE	DESCRIPTION	APPROVED

D

D

C

C

B

B

A

A

SIZE	FSCM NO.	DWG. NO.	REV
D	08992	CLARITY LOADING	E
SCALE	1/12	RELEASE DATE	SHEET 3

4

3

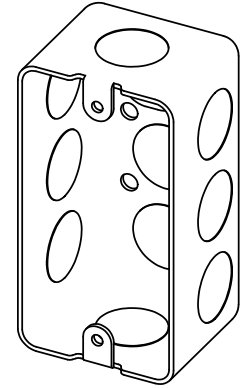
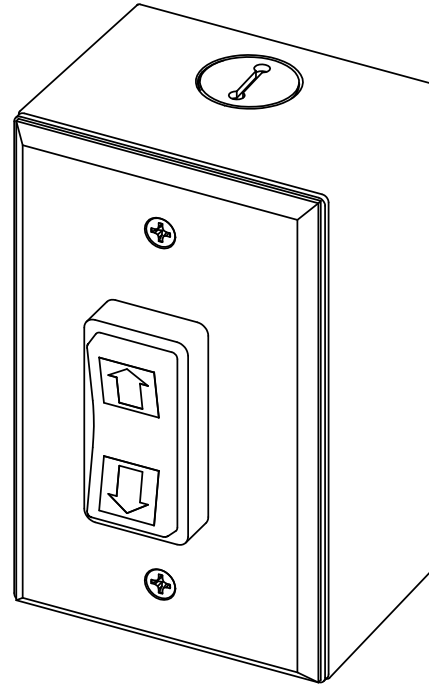
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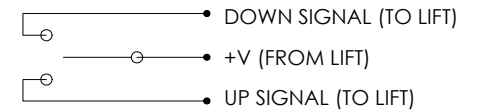
NOTES UNLESS OTHERWISE SPECIFIED:

1. DESCRIPTION: REMOTELY LOCATED CALL STATION FOR ASCENSION VERTICAL PLATFORM WHEELCHAIR LIFT.
2. CHARACTERISTICS:
 - 2.1 COVER PLATE: STANDARD SIZE WALL PLATE (4.5" X 2.75"), BRUSHED STAINLESS STEEL.
 - 2.2 SWITCH: 3 POSITION ROCKER, REQUIRES CONSTANT PRESSURE TO ACTUATE.
 - 2.3 MOUNTING BOX: SURFACE MOUNT SINGLE GANG HANDY BOX, 2.00" DEEP.
 - 2.4 WEATHER RATING: SUITABLE FOR OUTDOOR USE.
3. ADA REQUIREMENTS:
 - 3.1 MOUNT BETWEEN 15" AND 48" ABOVE FLOOR.
IAW ADAAG 308.2 OR 308.3
 - 3.2 PROVIDE 30"x48" OR 48"x30" CLEAR FLOOR SPACE FOR ACCESSING CALL STATION.
IAW ADAAG 309.2 & 305

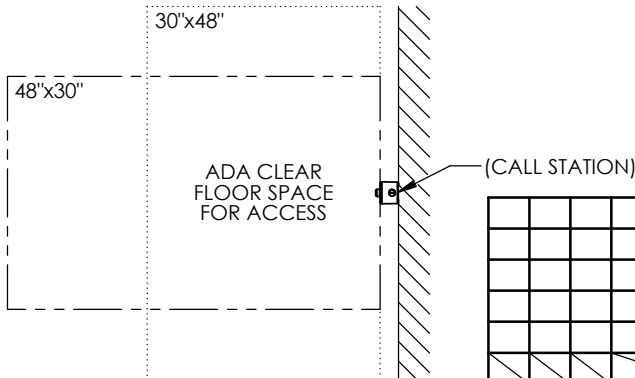
NOTE: CLEAR FLOOR SPACE MUST BE OUTSIDE SWING OF AUTOMATIC DOORS AND GATES.

COVER PLATE COMPATIBLE WITH
1-GANG BOX FOR FLUSH WALL MOUNT
(BOX SHOWN NOT PROVIDED)

WIRING:



(3) 1/4" QUICK-DISCONNECT TERMINALS (PROVIDED)



				INTERPRET DIMENSIONS AND TOLERANCES IAW ANSI Y14.5M-1994				CONTRACT NO.				aGM CONTAINER CONTROLS, INC.			
				UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				DRAWN S.APPLEBY				P.O. BOX 40020 - TUCSON, ARIZONA 85717-0020			
				TOLERANCES:				CHECK				DATE 9-16-22			
				DECIMALS .XX ± N/A .XXX ± N/A				APPROVED				TITLE OPERATING STATION (CALL BOX) WALL MOUNTED			
				ANGLES ± N/A				By Philip Brobeck at 12:47 pm, Oct 04, 2022				FSCM NO. 08992			
				DO NOT SCALE DRAWING				MANUFACTURING				DWG. NO. 115712			
				FINISH				CUSTOMER				REV. D			
PART DASH NO.				QTY. REQ'D PER ASSY.				APPLICATION				SCALE 1/1			
NEXT FINAL				NEXT ASSY.				USED ON				RELEASE DATE			
												SHEET 1 OF 1			

4

3

2

1

87654321

ZONELITEREVISIONSDESCRIPTIONDATEAPPROVED

1. DESCRIPTION:
SPECIFICATIONS FOR DOOR AND INTERLOCK (BY OTHERS) FOR USE WITH
ASCENSION WHEELCHAIR LIFTS (16S, 16C, & CERTAIN 5442F SERIES LIFTS).

2. CODE REQUIREMENTS:
DOOR AND INTERLOCK TO COMPLY WITH ALL APPLICABLE CODES AND
REQUIREMENTS, INCLUDING ASME A18.1.
GENERAL REQUIREMENTS FOR REFERENCE ONLY:

- DOOR MUST BE SELF-CLOSING
- INSIDE OF DOOR MUST FORM SMOOTH, UNPERFORATED SURFACE FLUSH WITH
SURROUNDING FACES OF ENCLOSURE/HOISTWAY
- DOOR AND INTERLOCK MUST WITHSTAND A 125 LBF APPLIED FORCE
- DOOR MUST BE FIRE-RATED (IF APPLICABLE)

3. INTERLOCK SPECIFICATIONS:
INTERLOCK TO INCLUDE TWO (2) PARALLEL (SEPARATE) CONTACTS FOR LIFT'S
DOOR CLOSED AND DOOR LOCKED SIGNAL CIRCUITS. CONTACTS TO BE CLOSED
WHEN DOOR SHUT AND LOCKED.
INTERLOCK TO BE FAIL-SECURE, 24VDC, 0.5A MAX CURRENT DRAW.
(1.0A MAX CURRENT DRAW FOR PROTÉGÉ 5442F SERIES)

RECOMMENDED INTERLOCK MODELS:

- IDEC HS5L (HS5L-XD44M-G OR SIMILAR)
 - AVAILABLE FROM ASCENSION
- ATLAS ATLOCK (ATLOCK-LP5 (LH), ATLOCK-RP5 (RH), OR SIMILAR)
- HONEYWELL CDI (CDILBP1W (LH), CDIRBP1W (RH), OR SIMILAR)

4. RECOMMENDED HOISTWAY DOOR MANUFACTURER & MODEL:
BELCO DOORS
P/N: COM-316 (CONTACT BELCO DOORS OR ASCENSION FOR SPEC DRAWING)

STANDARD FEATURES:

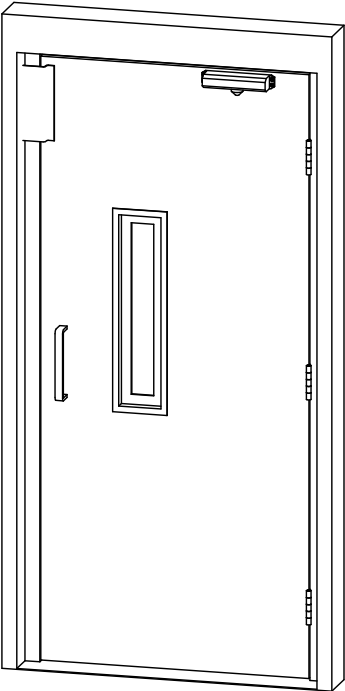
- 1.5 HOUR FIRE RATING
- VISION PANEL
- PRIMED AND READY FOR PAINT

OPTIONS:

- "RH" OR "LH" HANDING
- CONCEALED POWER DOOR OPERATOR (PDO)
- OUTDOOR WEATHER PACKAGE

FIRE-RATED WOODEN DOOR OPTIONS AVAILABLE; CONTACT BELCO DOORS FOR MORE DETAILS.

SPECIFICATIONS FOR DOORS BY OTHERS
(FOR USE WITH ASCENSION LIFTS)



DOOR APPEARANCE FOR REFERENCE ONLY
("LH" HANDING SHOWN)

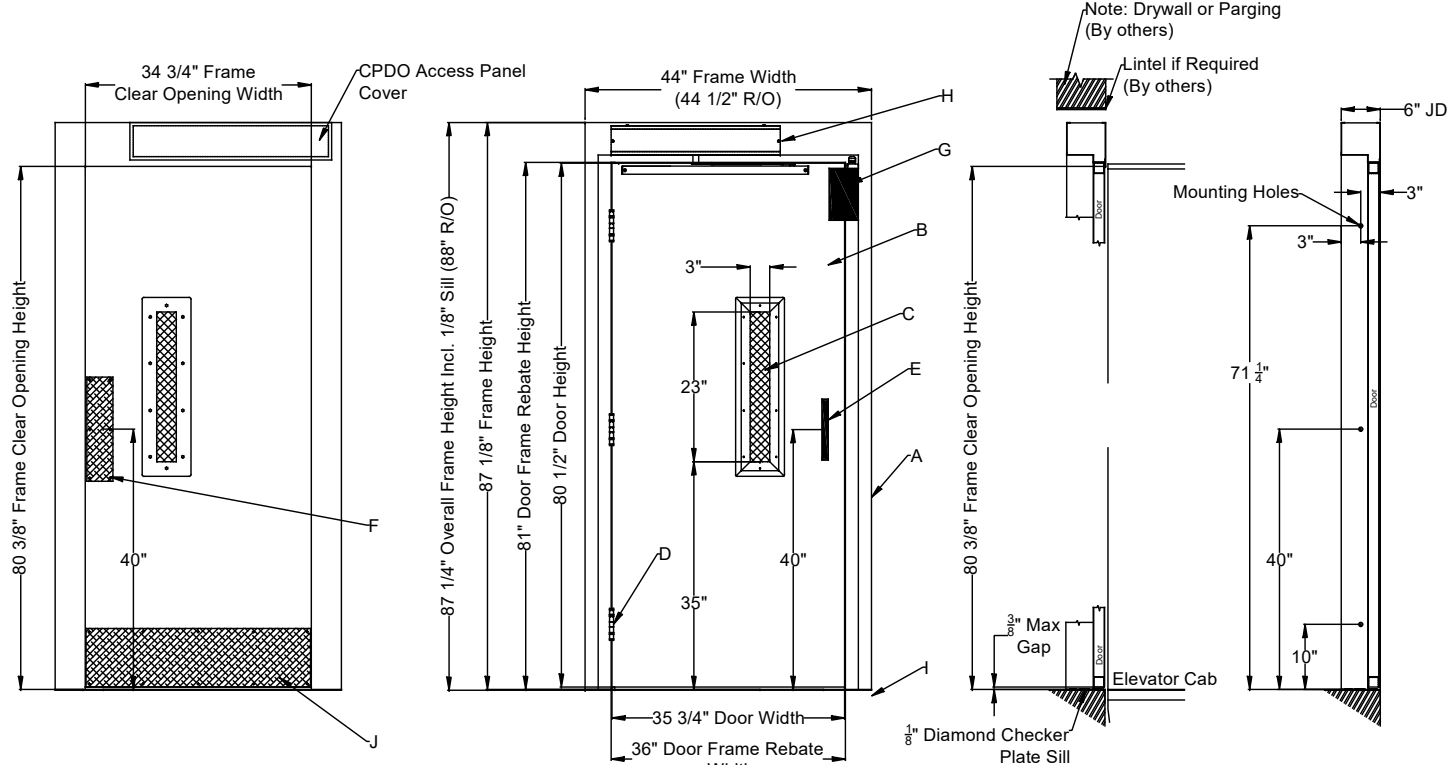
INTERPRET DIMENSIONS AND TOLERANCES (AW AND S114.5A-1994) UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: DECIMALS .008 .010 .015 ANGLES .010 .015 .020				DRAWN S. APPLEBY DATE 11-8-22		P.O. BOX 40020 TUCSON, ARIZONA 85711-0020		ascension®	
DO NOT SCALE DRAWING.				CHECK By Philip Brobeck at 12:00 pm, Nov 21, 2022		SPECIFICATIONS FOR DOORS BY OTHERS		REV	
PART DASH NO.				NEXT ASSY		USED ON		APPICATION	
FSCM NO. 08992				DWG. NO. 16S DOOR		SHEET 1 OF 1		FILE \\Solidworks01\\Ascension\\16S DOOR.SLDRAW	

D SIZE SH1 1 02/03

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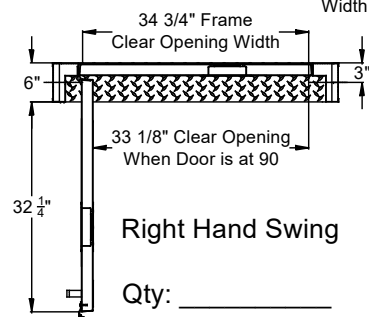
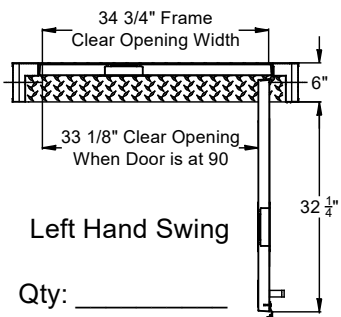
FILE \\Solidworks01\\Ascension\\16S DOOR.SLDRAW

BELCO DOORS COM-316 ORDER FORM

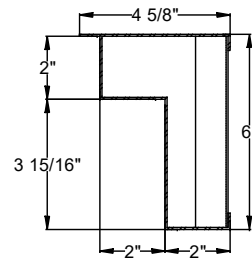


1-1/2 Hour Elevator Approved "B" Fire Label

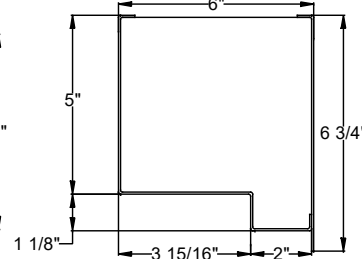
- A. 16ga. Frame (Galvanneal & Paint Ready)
- B. 18ga. Steel Door (Honeycomb Core, Galvanneal & Paint Ready)
- C. 3" x 23" Vision Panel (1/4" Wired Glass)
- D. (3) 4 1/2" NRP BB Hinges (US26D Finish)
- E. D-Handle (Brushed Aluminum)
- F. Push Plate (Brushed Aluminum)
- G. EMI Interlock (Atlas Atlock)
- H. Concealed PDO-110V (Optional)
- I. Flat Diamond Zinc Plated Sill with Sill Pins
- J. Kick Plate (Brushed Aluminum)



Side Jamb Profile



Head Jamb Profile

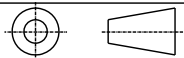


Standard Entrances are provided with a Manual Door Closer, if Power Door Operation is Required - Please Check Box Below

☐ Power Door Operation is Required

Standard Entrances are for Interior use, if Exterior Application Pkg. is Required - Please Check Box Below

☐ Exterior Application Pkg. Required



NIAGARA BELCO DOORS LTD. IS NOT RESPONSIBLE FOR THE STRUCTURAL DESIGN OF THE BUILDING AND ITS ABILITY TO SUPPORT THE ENTRANCE.

REV NO.	REVISION DESCRIPTION	DATE	BY
0	INITIAL RELEASE	2NOV22	JPH

AGM Container COM-316-3681-CPDO Size 36" x 81"			
SCALE:			
DRAWN BY:	DATE LAST MODIFIED:	DRAWING NO.	REV SHEET NO.
JPH	NOV 15 2022	COM-316-3681-CPDO	0 1 OF 1