

ALLEGION - SCHLAGE LOCK COMPANY, LLC.

OUTSWING SINGLE FLUSH COMMERICAL STEEL DOOR

(HVHZ)(IMPACT)

GENERAL NOTES:

- THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202, 203-94, ASTM PROTOCOLS E283-04(12), E330-14, E331-00(09) AND COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
- THE DOORS ARE LARGE AND SMALL MISSILE IMPACT RATED.

NOTES:

- ALL DIMENSIONS SHOWN MAX. AND TYP. FOR ALL DOOR/FRAME MODELS UNLESS OTHER INDICATED.
- ANCHOR REQUIREMENTS: SEE SHEET 12 - 17 & 27 - 32 FOR APPROVED ANCHORS AND INSTALLATION.
- HINGE REQUIREMENTS:
FOR DOOR OPENING UP TO 90" HIGH - MIN. (3) BUTT HINGES
FOR DOOR OPENING OVER 90" - 96" HIGH - MIN (4) BUTT HINGES
LOCATIONS: 7.125" MIN - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE
9" MIN. -12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
HINGE LOCATIONS MAY VARY, MAX SPACING NOT TO EXCEED 35.5" FOR THREE HINGES.
- APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 20
- SEE SHEET 2 - 7, 24, AND 26 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
- HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.
- APPLY CAULK AS NEEDED
- WHEN WATER INFILTRATION RATING IS REQUIRED, INSTALL GASKETING PER SHEET 18.
- WHEN WATER INFILTRATION RATING IS NOT REQUIRED, INSTALL GASKETING PER SHEET 19.
- MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
- WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN
- ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE.

INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.
- OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND OR INHIBIT EGRESS. TO BE REVIEWED BY THE BUILDING OFFICIAL.

CONSTRUCTION NOTES:

- DOOR CONSTRUCTION
 - NOMINAL DOOR THICKNESS - 1 3/4"
 - DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS
 - ALL DOORS ARE FLUSH - NO LITES OR LOUVERS APPROVED
 - DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN RATING OF +/-75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION. MAXIMUM 2 VIEWERS PER DOOR.
- FRAME CONSTRUCTION
 - MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 - STEELCRAFT FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 4, SHT. 11). REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 11 SHT. 26).
- FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3, SHT. 10. FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 10 SHT. 26.
- FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 11 & 26 FOR DETAIL.

DESIGN PRESSURE RATING			IMPACT RATING
CONFIGURATION	WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE NEEDED	WHERE WATER AND AIR INFILTRATION REQUIREMENTS ARE <u>NOT</u> NEEDED	LARGE AND SMALL MISSILE IMPACT, LARGE MISSILE IMPACT 50 F/S
1	+75/-75	+75/-75	
2	+55/-55	+55/-55	
3	+65/-65	+65/-65	
4	+75/-75	+75/-75	
5	+70/-70	+70/-70	
6	+70/-70	+70/-70	
7	+70/-70	+70/-70	
8	+70/-70	+70/-70	
9	+75/-75	+100/-100	
10	+70/-70	+70/-70	
11	+55/-55	+55/-55	
12	+60/-60	+60/-60	
13	+70/-55	+70/-55	
14	+60/-60	+60/-60	
15	+75/-75	+75/-75	
16	+75/-75	+75/-75	

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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

GENERAL NOTES &
DESIGN PRESSURE TABLE

PREPARED BY:

BUILDING DROPS, INC.

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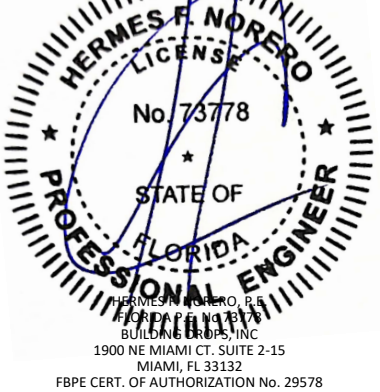
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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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Reason: I am approving this document
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TABLE 1: DOOR CONFIGURATIONS & LOCKING HARDWARE

DOOR CONFIGURATION	MAXIMUM DESIGN PRESSURE, PSF		MAXIMUM DOOR OPENING SIZE, IN		LOCKING HARDWARE DESCRIPTION				COMMENTS
	POSITIVE	NEGATIVE	WIDTH	HEIGHT	HARDWARE FAMILY	MODEL/SERIES	STRIKE MODELS	BRAND	
1	75	75	48	96	MORTISE LOCK	L/LV9400, AD-MD, CO-MD, PM400	10-072	SCHLAGE	FUNCTIONS WITH DEADBOLT, 3/4" MIN THROW LATCH & 1" MIN THROW DEADBOLT
	75	75	48	96	MORTISE LOCK	LE-MD, LEB-MD	10-072	SCHLAGE	
	75	75	48	96	MORTISE LOCK	XE360-M-D	10-072	SCHLAGE	
	75	75	48	96	MORTISE LOCK	MA	ANSI	FALCON	
2	55	55	48	96	CYLINDRICAL LOCK	AL	10-025	SCHLAGE	1/2" MIN. THROW LATCH
3	65	65	48	96	CYLINDRICAL LOCK	D, ND, NDE. NDEB, AD-CY, CO-CY	10-025	SCHLAGE	1/2" MIN. THROW LATCH
	65	65	48	96		ALX, PC	ANSI	FALCON	1/2" MIN. THROW LATCH (13-247, 14-028)
	65	65	48	96		T, TM	ANSI	FALCON	1/2" MIN THROW LATCH (23981145)
4	75	75	48	96	CYLINDRICAL LOCK	D, ND, NDE. NDEB, AD-CY, CO-CY	10-025	SCHLAGE	3/4" MIN THROW LATCH
						ALX, PC	ANSI	FALCON	3/4" MIN THROW LATCH (14-042)
						T, TM	ANSI	FALCON	3/4" MIN THROW LATCH (23981152)
5	70	70	48	96	SURFACE VERTICAL ROD EXIT DEVICE	9827, 9927, 9827-F, 9927-F	299F/499F TOP, 304L BOTTOM	VON DUPRIN	-
						HH7827, HH7827-F			
						F-25-V, 25-V	3788 TOP, 2130 BOTTOM	FALCON	
6	70	70	48	96	CONCEALED VERTICAL ROD DEVICE	9847-F, 9947-F, HH9847, HH9947	338 TOP, 304L BOTTOM	VON DUPRIN	HH98 & HH9947 DEVICES HAVE A 2-3/4" BACKSET
						HH7847, HH7847-F			HH7847 DEVICE HAS A 2-3/4" BACKSET
						F-25-C	4188 TOP, 2130 BOTTOM	FALCON	-
7	70	70	48	96	THREE-POINT LATCHING DEVICE	9857, 9957, 9857-F, 9957-F	299F/499F TOP/MIDDLE, 304L BOTTOM	VON DUPRIN	-
8	70	70	48	96	RIM EXIT DEVICE	98, 99, 98-F, 99-F	299F/499F	VON DUPRIN	-
						HH78, HH78-F		VON DUPRIN	
						88-F	268/468	VON DUPRIN	
9	75/100 SEE NOTE 2	75/100 SEE NOTE 2	48	96	RIM EXIT DEVICE	XP98, XP99, XP98-F, XP99-F	909/954	VON DURPIN	-
10	70	70	48	96	MORTISE EXIT DEVICE	9875, 9975, 9875-F, 9975-F	575	VON DUPRIN	-
						8875 & 8875-F	575	VON DUPRIN	
						F-25-M & 25-M	1279	FALCON	
11	55	55	48	96	EXIT ALARM LOCK	2670 GUARD-X	267	VON DUPRIN	-
12	60	60	48	96	CYLINDRICAL DEADLOCK	B600/700/800	10-055	SCHLAGE	1" MIN THROW DEADBOLT (12-631)
13	70	55	48	96	RIM EXIT DEVICE	F-25-R & 25-R	299F/499F	FALCON	-
14	60	60	48	96	MORTISE LOCK	L/LV9000, AD-MS, CO-MS, LE-MS, LEB-MS, LE-MB, LEB-MB, PM	10-072	SCHLAGE	FUNCTIONS WITHOUT DEADBOLT, 3/4" MIN THROW LATCH
						XE360-M-B & XE360-M-I	10-072	SCHALE	
15	75	75	36	84	MORTISE LOCK	L/LV9000, AD-MS, CO-MS, LE-MS, LEB-MS, LE-MB, LEB-MB, PM	10-072	SCHLAGE	FUNCTIONS WITHOUT DEADBOLT, 3/4" MIN THROW LATCH
						XE360-M-B & XE360-M-I	10-072	SCHALE	
						MA	ANSI	FALCON	
16	75	75	36	84	CYLINDRICAL LOCK	D, ND, NDE, NDEB, AD-CY, CO-CY	10-025	SCHLAGE	1/2" MIN THROW LATCH
						ALX, PC	ANSI	FALCON	1/2" MIN THROW LATCH (13-247, 14-028)
						T, TM	ANSI	FALCON	1/2" MIN THROW LATCH (23981145)
17	±55	±55	36	84	TUBULAR LOCK	XE360-T	STANDARD	SCHLAGE	1/2" MIN. THROW LATCH

NOTES:
1. SEE SHEETS 21-23 FOR LOCKING HARDWARE.
2. DOOR CONFIGURATION 9 IS RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 11A OR FOR DOOR OPENINGS UP TO 3'-0"x7"-0" WITH NGP THRESHOLD 11B AND ±50 PSF FOR DOOR OPENINGS UP TO 4'-0"x8'-0" WITH NGP THRESHOLD 11B WHEN WATER IN FILTRATION REQUIREMENT IS NEEDED. SEE SHEET 18.
2.1 DOOR CONFIGURATION 9 IS RATED FOR A MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD OPTIONS AND UP TO ±100 PSF WITH THE NGP THRESHOLD OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED. SEE SHEET 19.
3. SCHLAGE AL-SERIES CYLINDRICAL LOCK, DOOR CONFIGURATION 2, IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE



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TABLE 1: DOOR CONFIG.
& LOCKING HARDWARE

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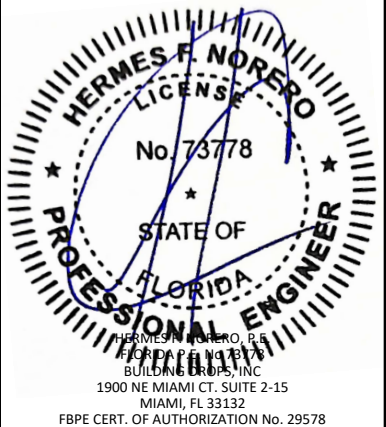
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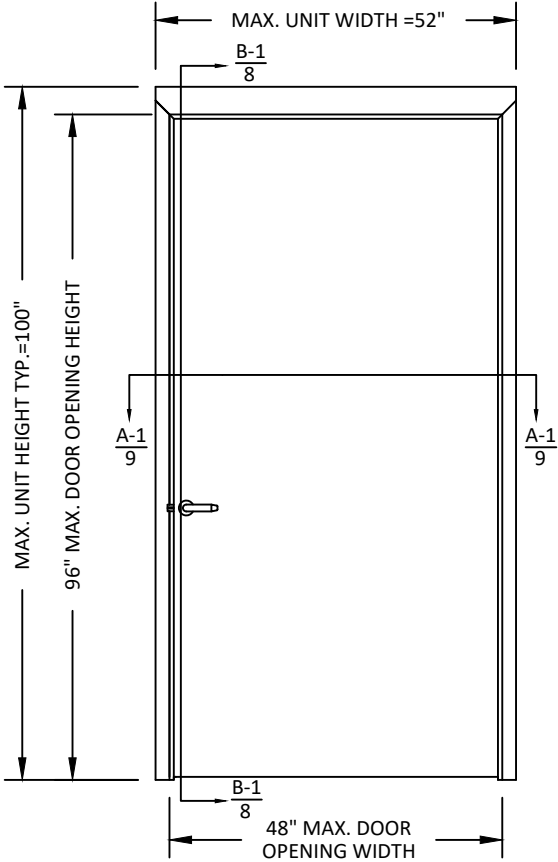
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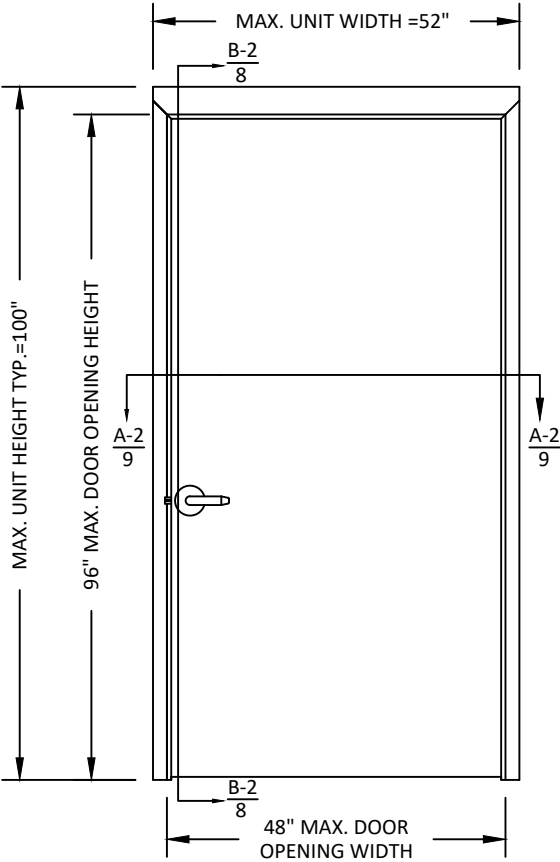
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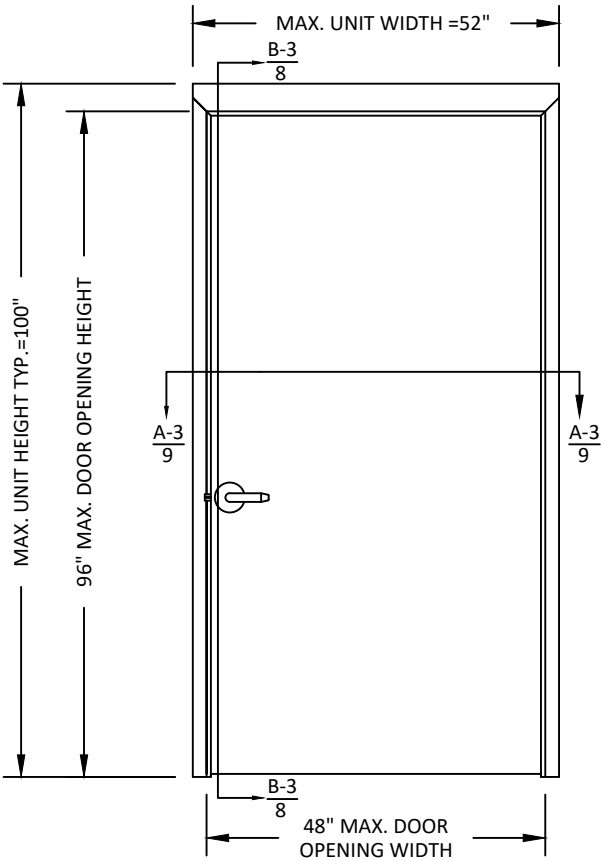
CONFIGURATION 1
MORTISE LOCKSET WITH DEADBOLT FUNCTION



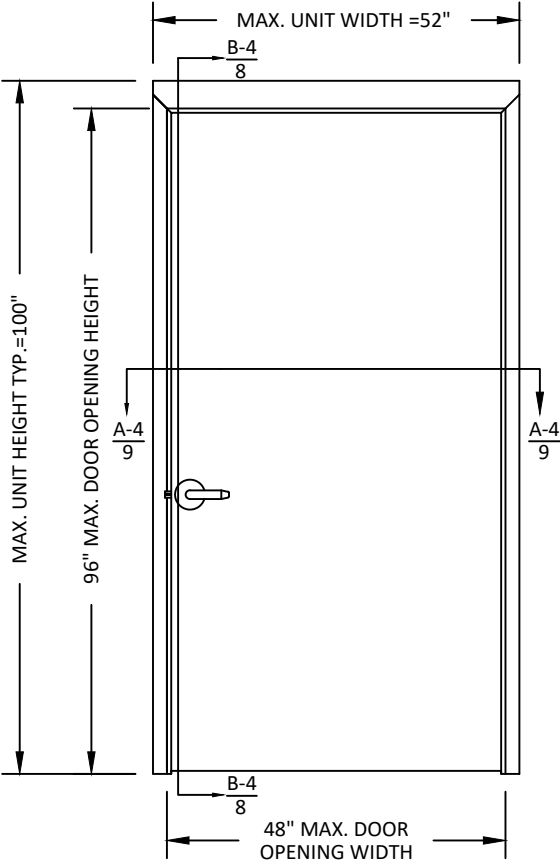
CONFIGURATION 2
CYLINDRICAL LOCKSET 1/2" THROW LATCH



CONFIGURATION 3
CYLINDRICAL LOCKSET 1/2" THROW LATCH



CONFIGURATION 4
CYLINDRICAL LOCKSET 3/4" THROW LATCH



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DOOR CONFIGURATIONS 1-4

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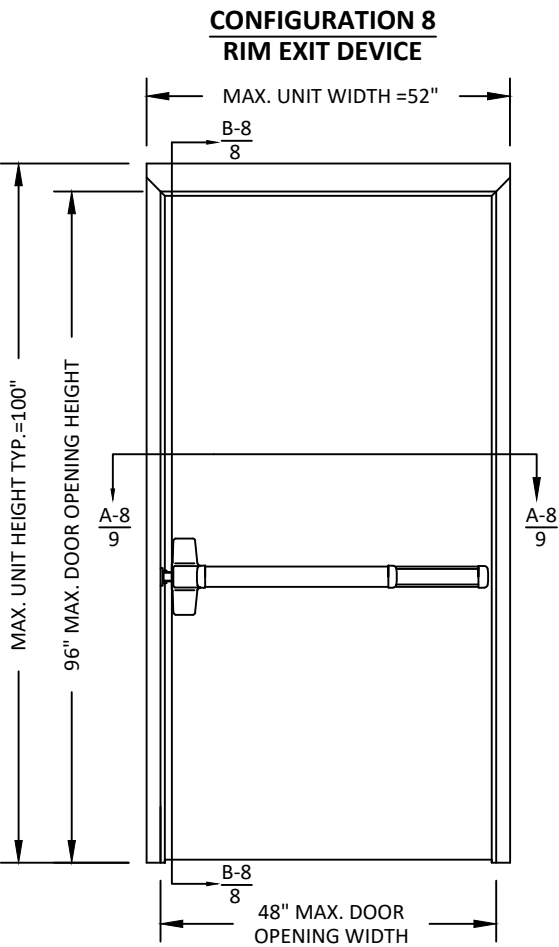
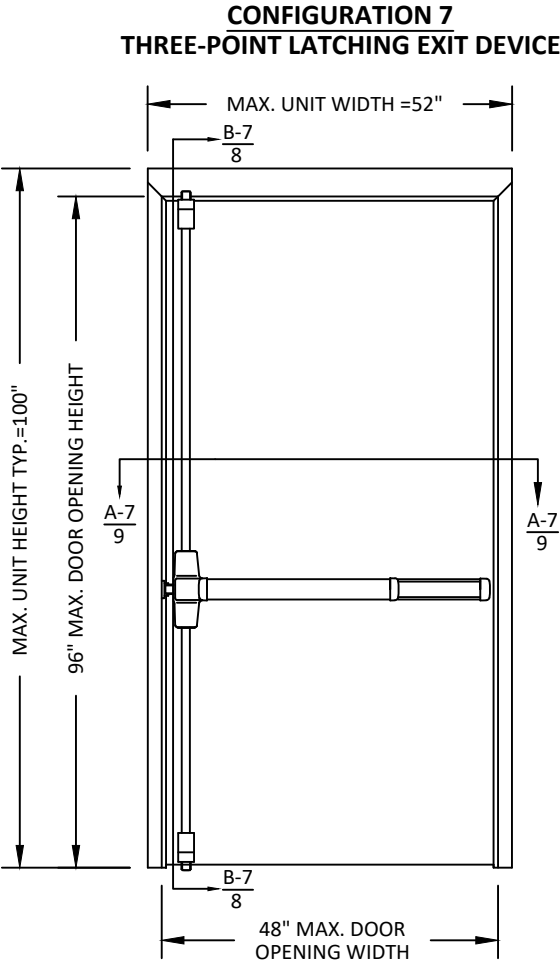
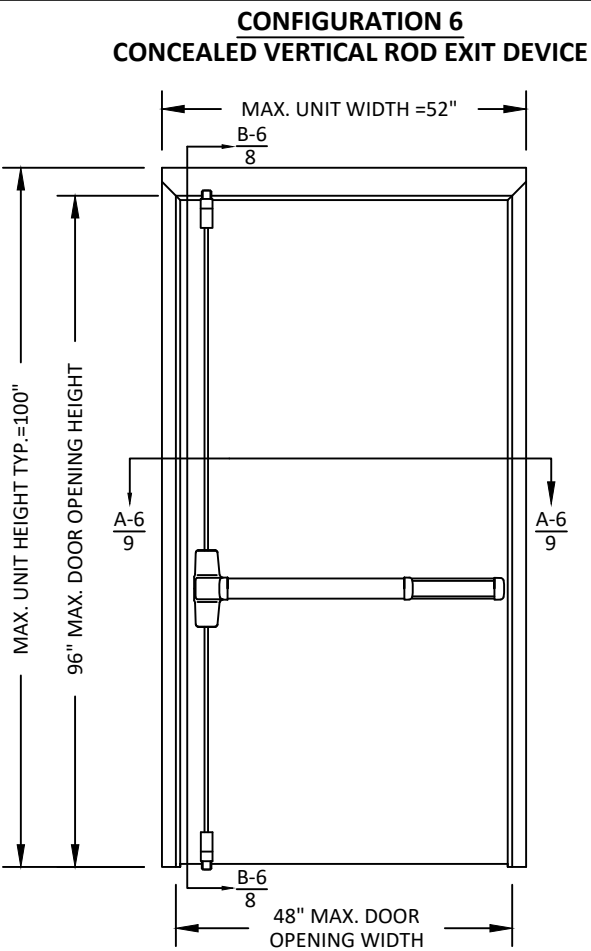
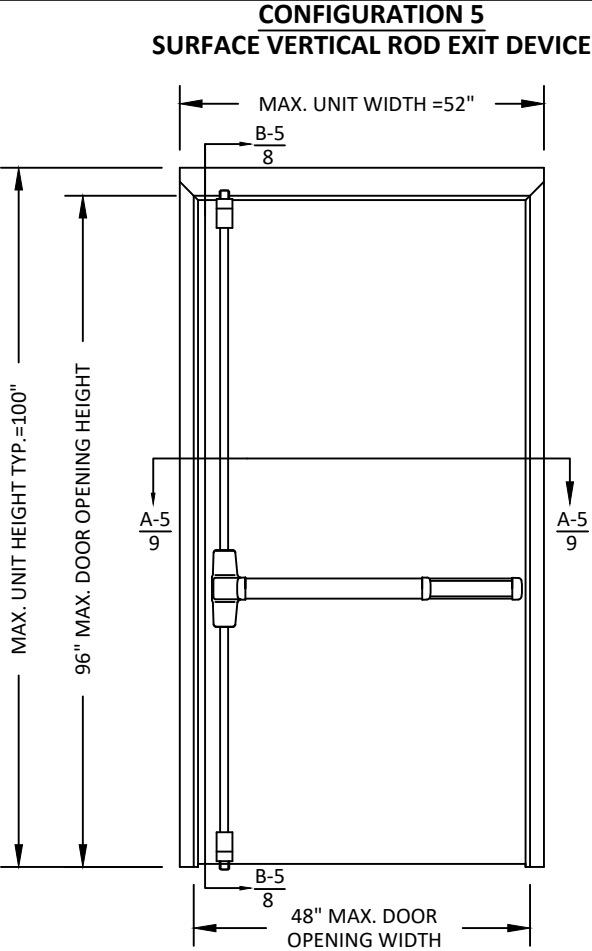
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DOOR CONFIGURATIONS 5-8

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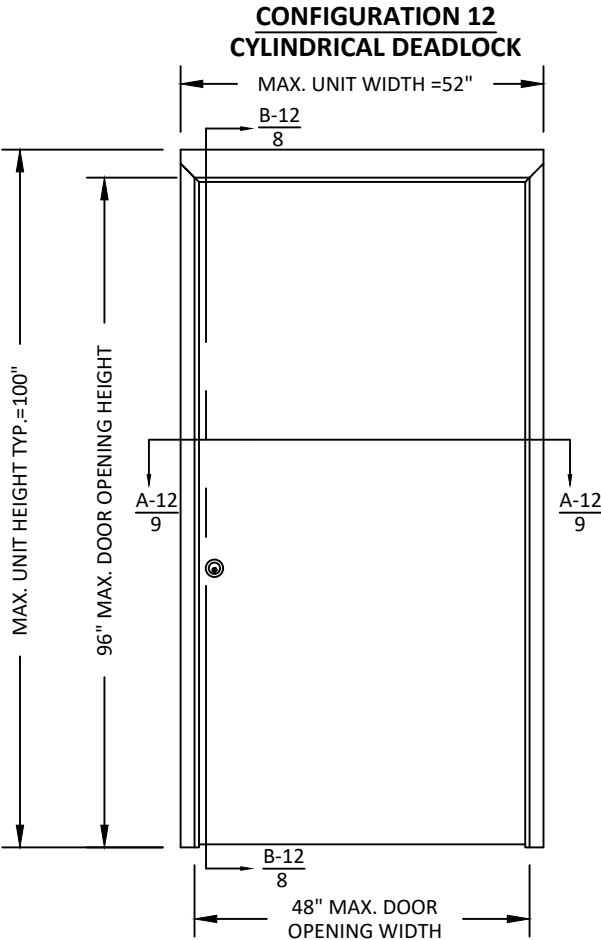
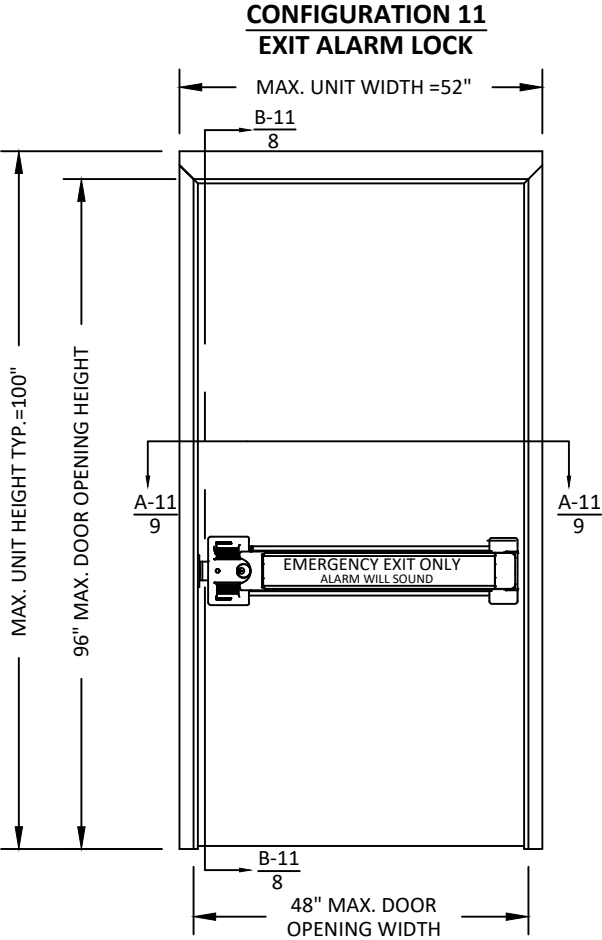
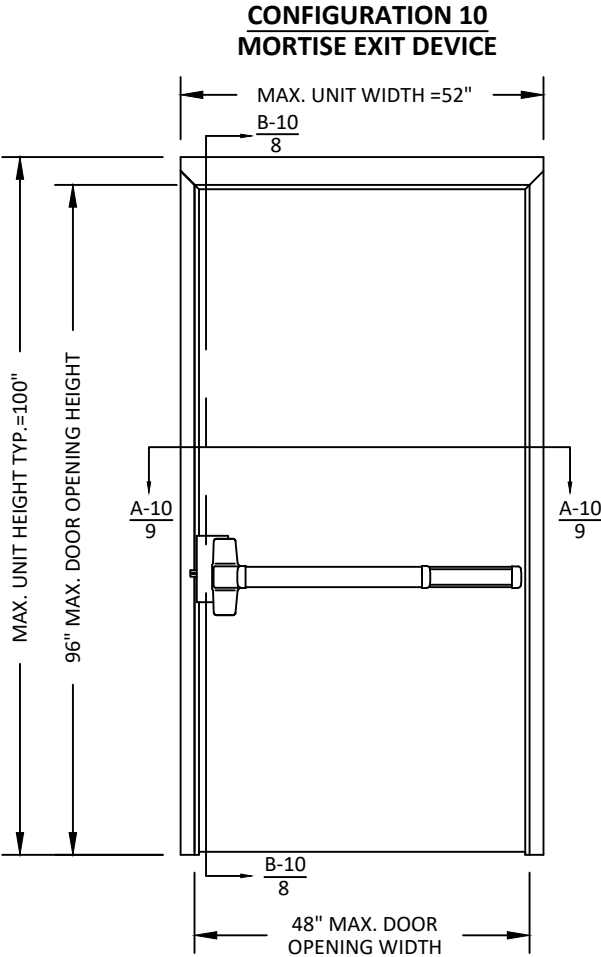
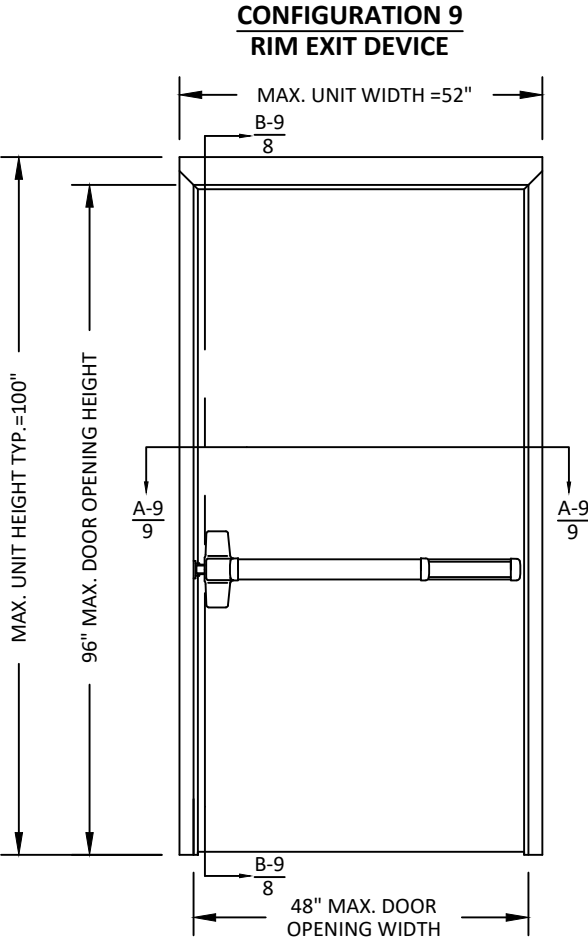
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DOOR CONFIGURATIONS 9-12

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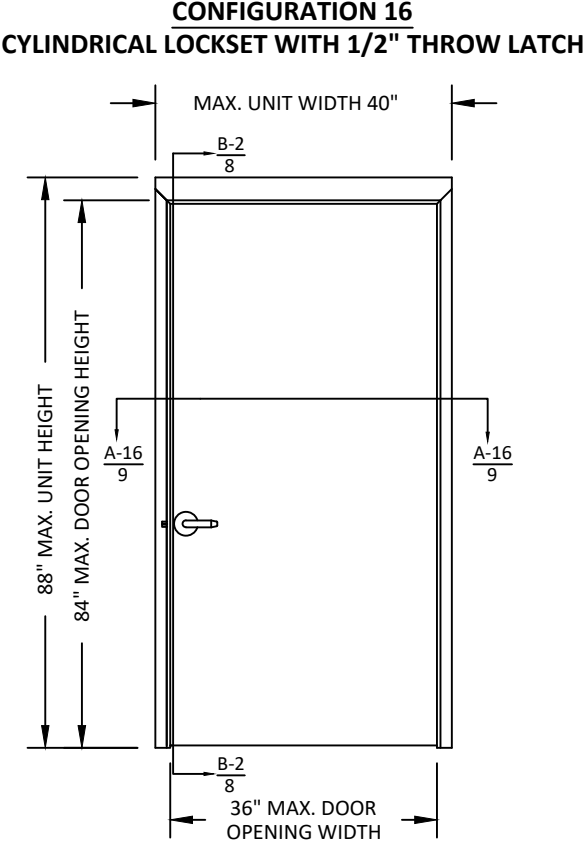
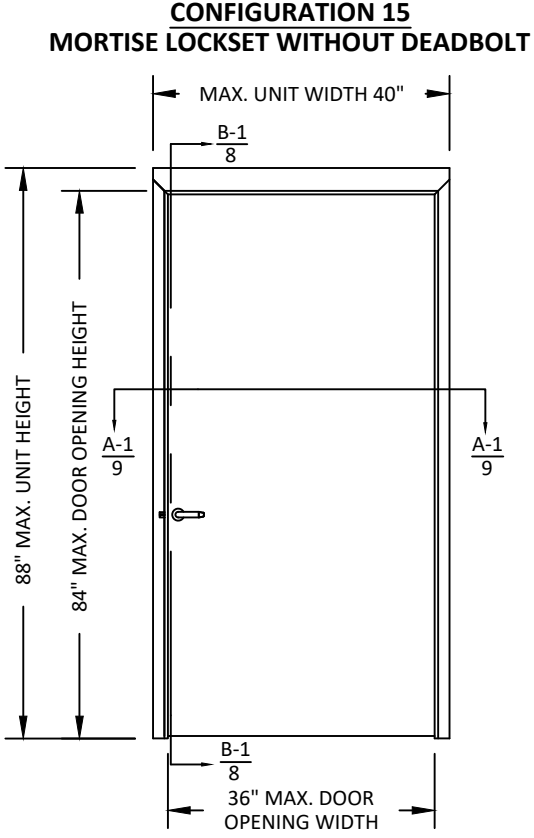
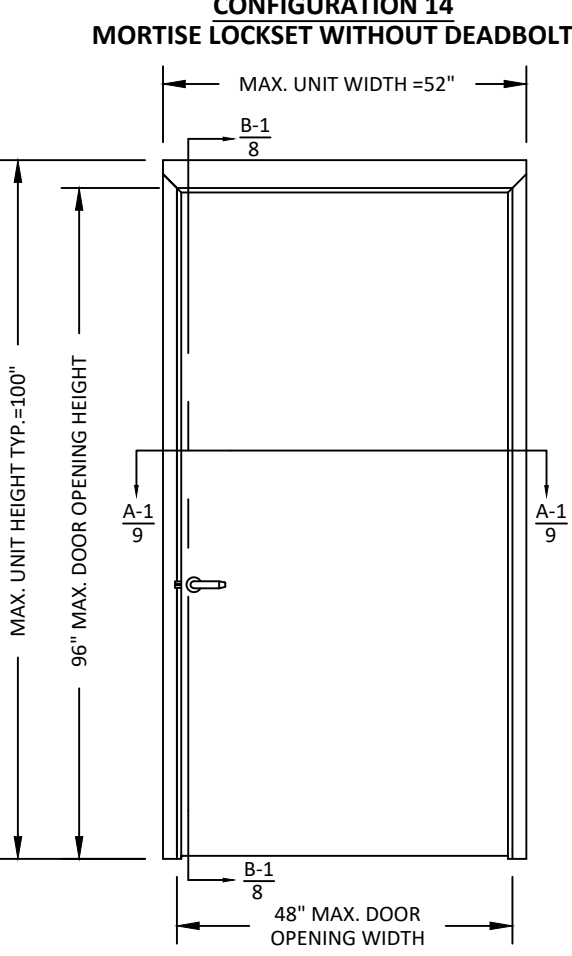
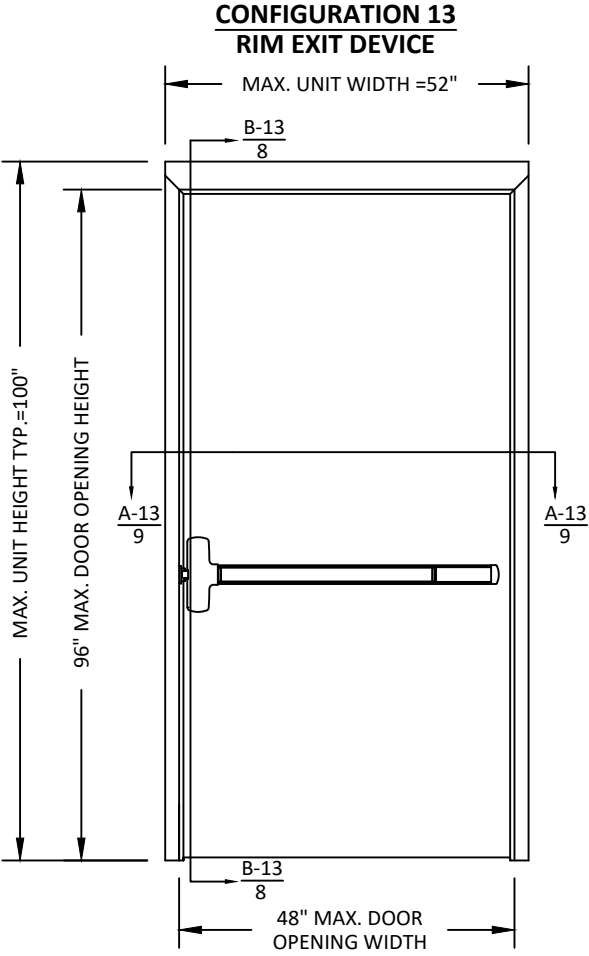
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DOOR CONFIGURATIONS 13-16

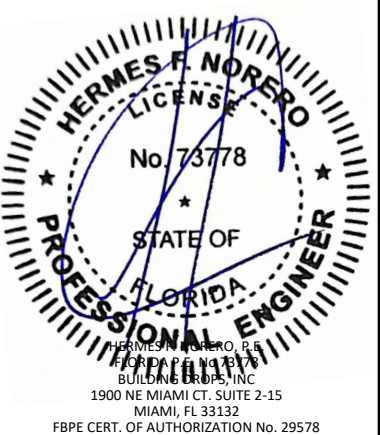
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PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: OPENING DIMENSIONS
& BOM

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

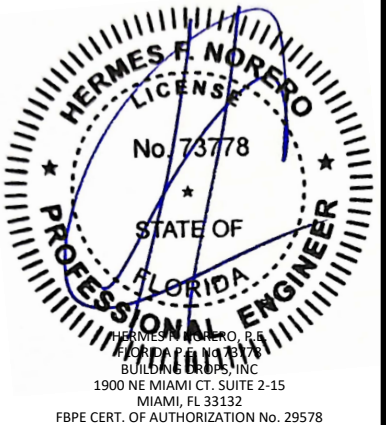
FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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DATE: 05.04.22

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CPA

CHK. BY:
HFN

SCALE: NTS

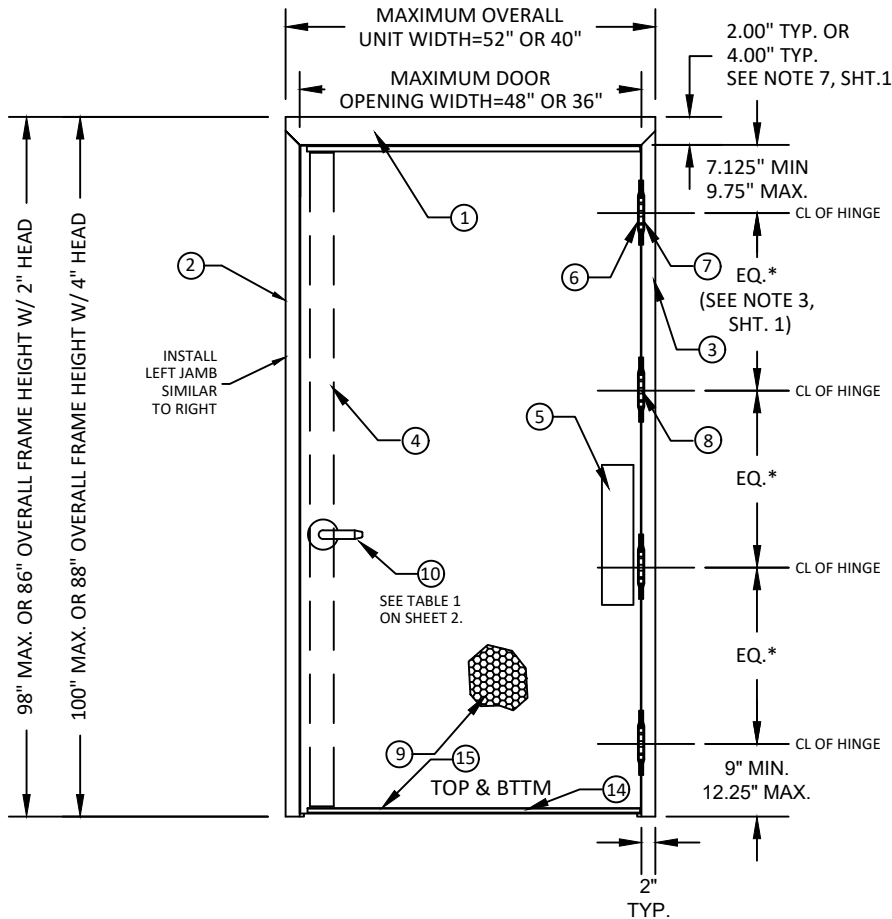
DWG. #: IRFS07

SHEET:

7

OF 32

OUTSWING SINGLE FLUSH DOOR
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE
(SEE ELEVATIONS SHEET 3-6)



AVAILABLE DOOR PANEL CONFIGURATIONS

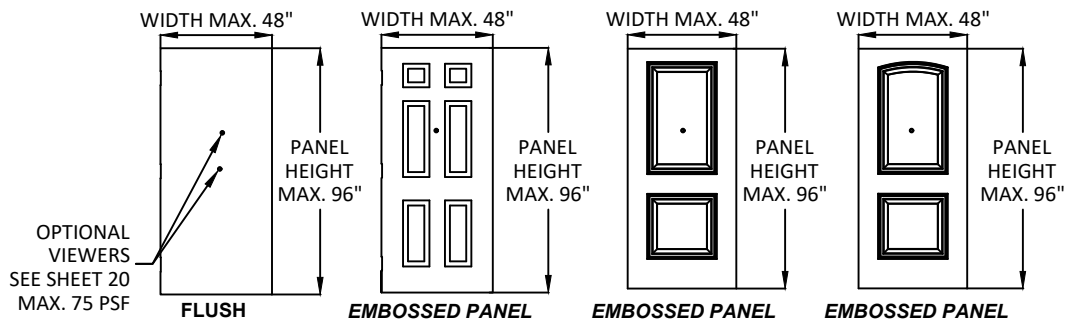
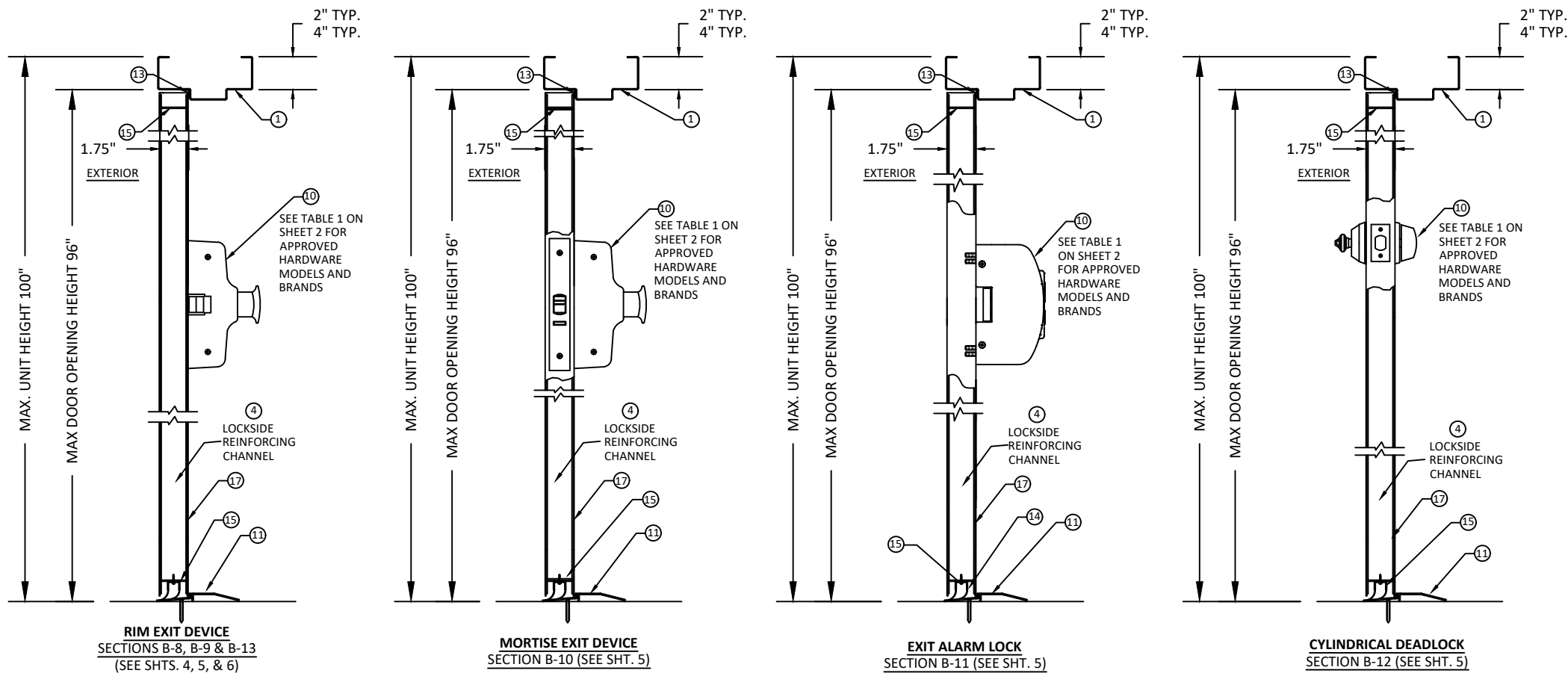
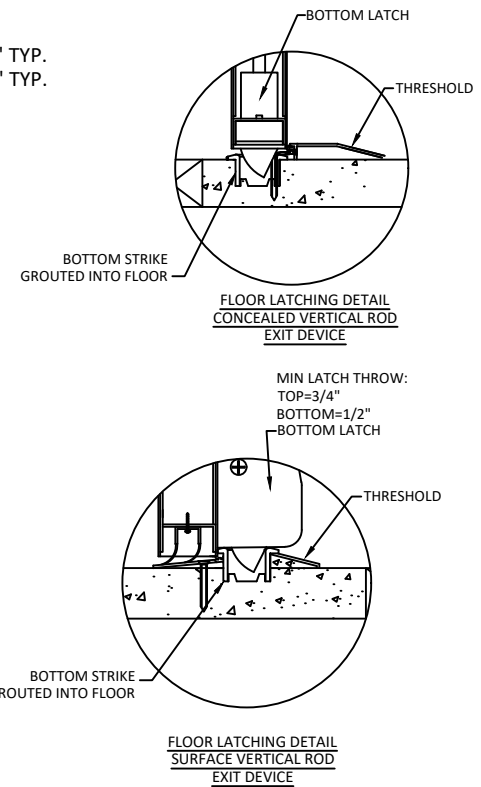
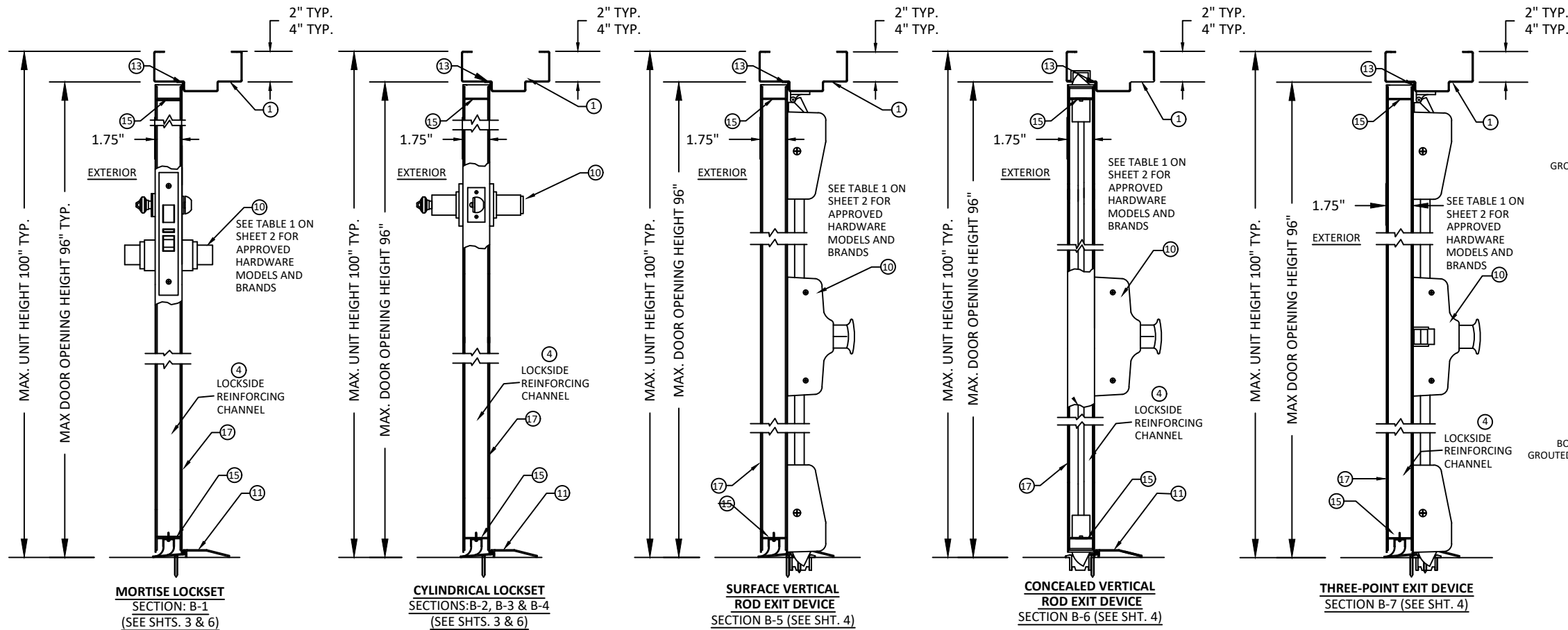


TABLE 2: (FOR OPTION 2 SEE TABLE 8 SHEET 24)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD, SEE SHT. 11	.053" MIN. STL	MAX 52"
2	1	STRIKE JAMB SEE SHT. 11	0.53" MIN. STL	MAX 100"
3	1	HINGE JAMB, SEE SHT. 11	.053" MIN. STL	MAX. 100"
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.
5	AS NEEDED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.187" MIN.
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 20)	.134 MIN.	(8) #12-24 MS PER HINGE
9	1	OPTIONAL CONTINUOUS HINGE (SEE SHEET 20)	.075" MIN.STL / .110 ALUM.	MAX. 95"
10	1	LOCKING HARDWARE - LOCKSET	SEE SHT. 2 TABLE 1	
11	1	THRESHOLD SILL W/BUMPER GASKET (SHTS. 18 & 19)		5.0" X 0.5" X 96" MAX
12	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 12-16	-
13	SEE SHTS. 18-19	13A) PS074 DOOR SEAL	TPE	MAX. 20'
14	1	FAS-SEAL DOOR SWEEP SEE SHTS. 18 & 19	TPE	MAX. 48"
15	2	END CHANNEL (14 GAGE - INVERTED)	.067" MIN. STEEL	.69" X 1.66" X 48" MAX.
16	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 16-17	-
17	1	DOOR SLAB (16 OR 14 GA)	SEE SHT. 10	4' X 8' MAX.
18	-	-	-	-
19	2	202N DOOR SWEEP BY NGP, SHT. 18 & 19	TPE	MAX 48"
20	1	20A) 139 DOOR SWEEP BY ZERO INT'L	SEE SHT. 18	MAX 48"
21	3	20B) 328 DOOR SWEEP BY ZERO INT'L		
22	1	20C) 200N DOOR SWEEP BY NGP		
23	1	21A) 475 ADJUSTABLE SEAL BY ZERO INT'L	TPE, SEE SHT. 18	MAX 104"
24	1	21B) 170N ADJUSTABLE SEAL BY NGP		
25	1	22A) 142 RAIN DRIP BY ZERO INT'L	SEE SHT. 18	MAX 52"
26	1	22B) 11 RAIN DRIP BY ZERO INT'L		
27	1	22C) 16A RAIN DRIP BY NGP		
28	1	23A) TOP CAP CALV. A60	.020" MIN. STL	MAX. 48"
29	1	23B) 18 GA DOOR FLUSH TOP CAP	.047" MIN. STL	
30	1	IVES 698/U698 DOOR VIEWER	BRASS	-



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
DOOR & FRAME VERTICAL
SECTION VIEWS

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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WEB: www.buildingdrops.com



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OF 32



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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CARMEL, IN 46032
PH: (317) 715-4073

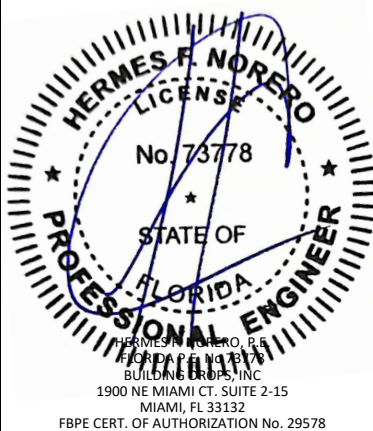
TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
DOOR & FRAME HORIZONTAL
SECTION VIEWS

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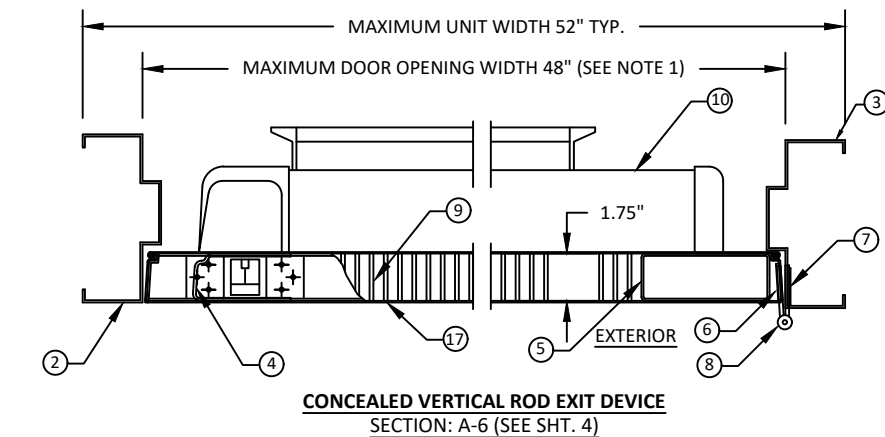
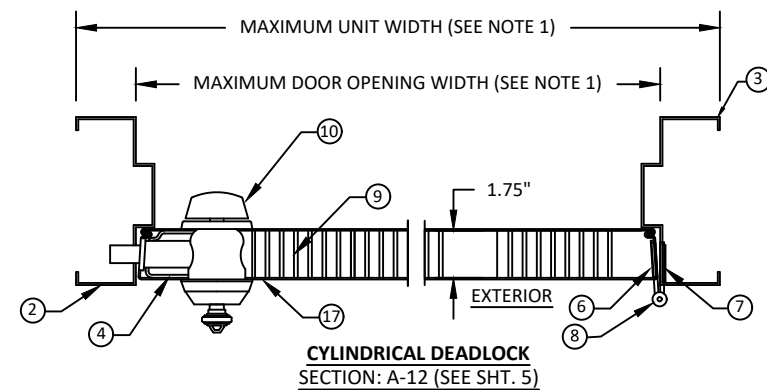
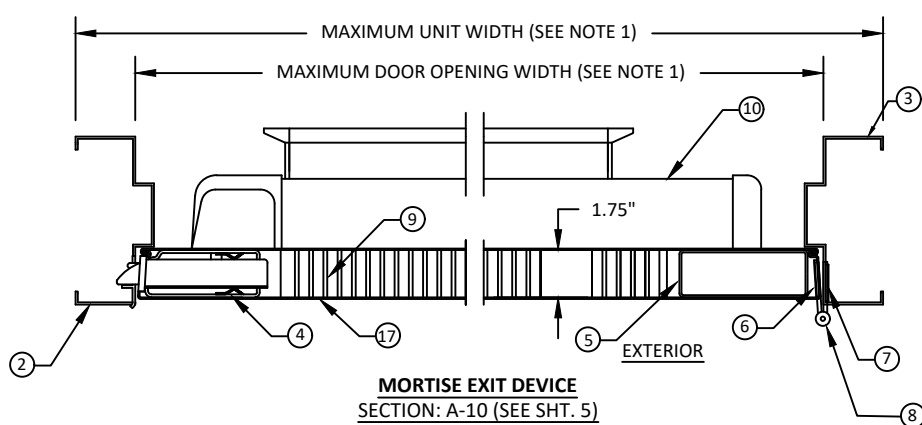
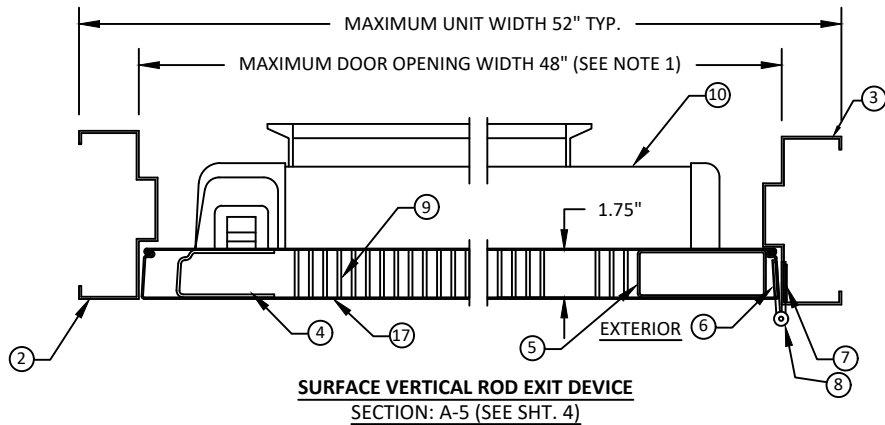
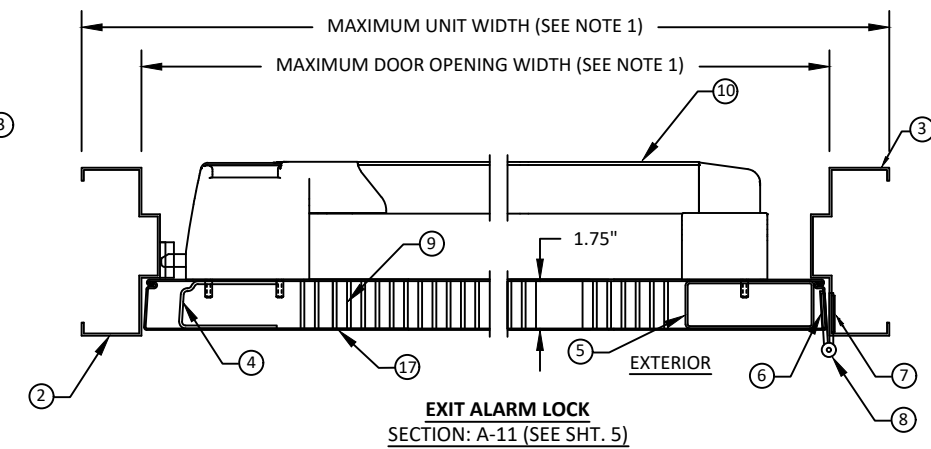
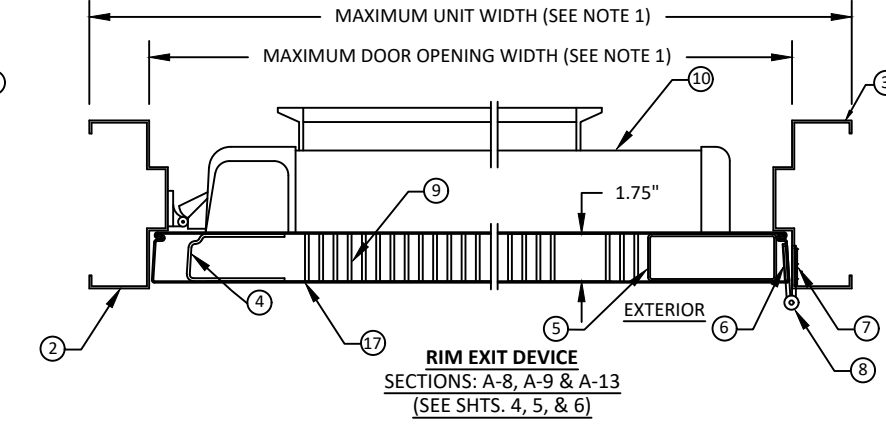
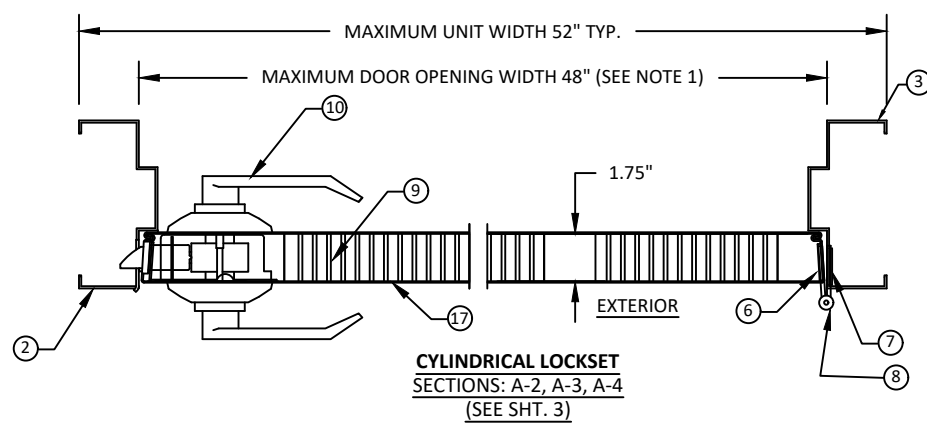
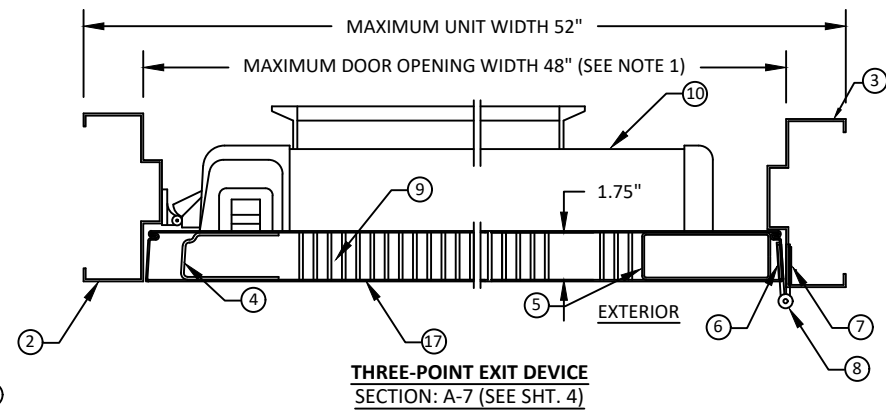
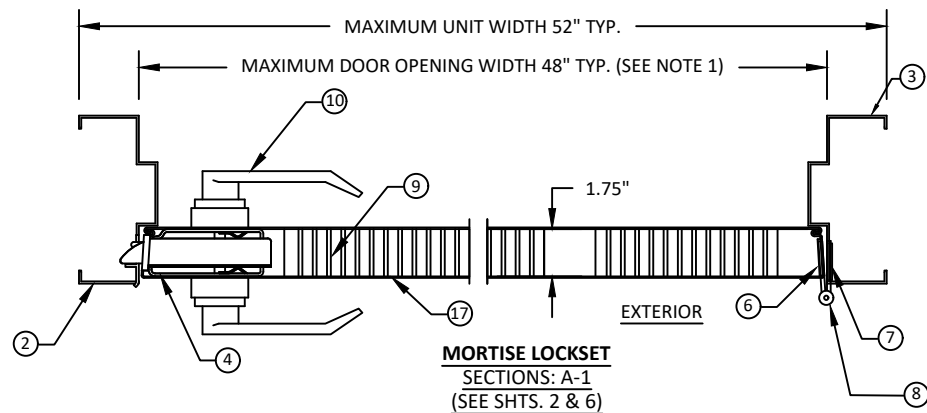
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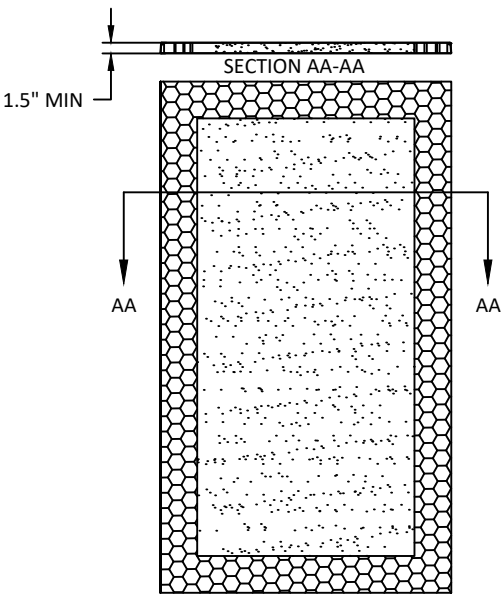
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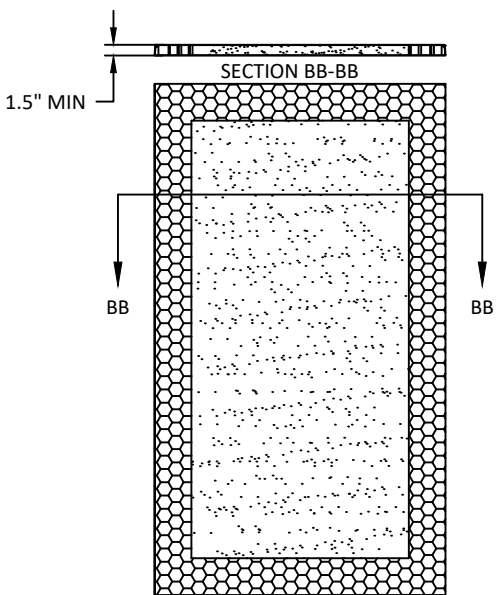
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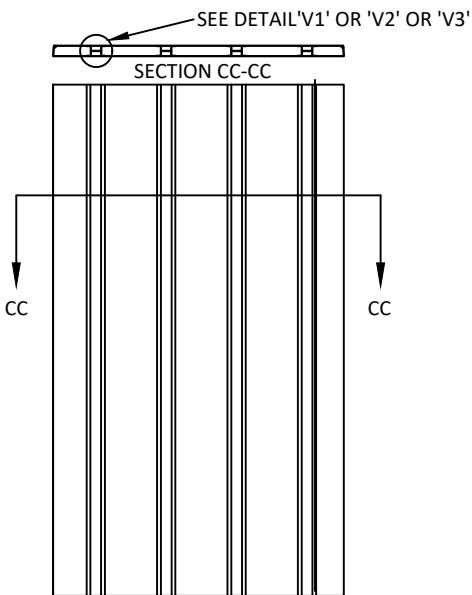
NOTE:
1. SEE TABLE 1 SHEET 2 FOR DOOR OPENING WIDTHS



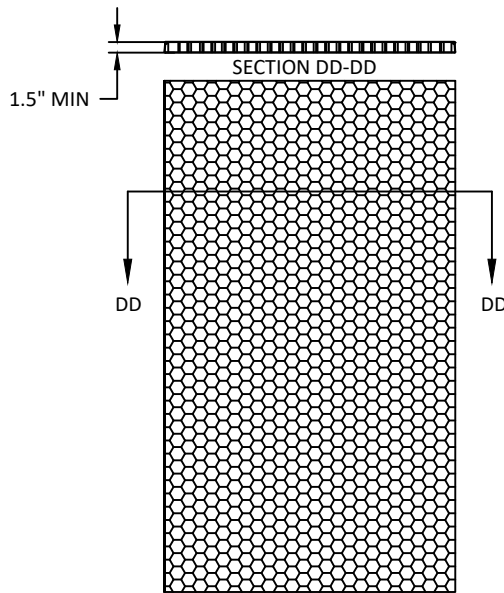
(A) EXPANDED POLYSTYRENE FOAM
DENSITY: 1.0 LBS/FT³



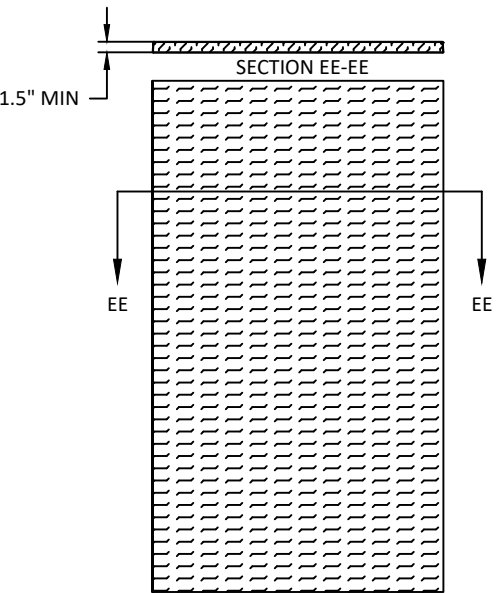
(B) POLYISOCYANURATE
(POLYURETHANE)
DENSITY:2 LBS/FT³



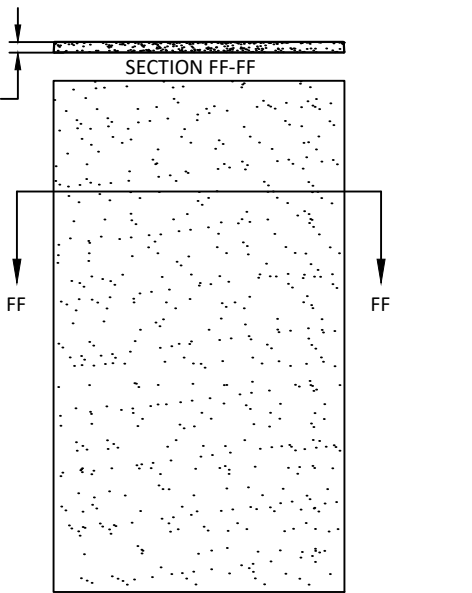
(C) STEEL STIFFENED
HAT SHAPED SECTIONS



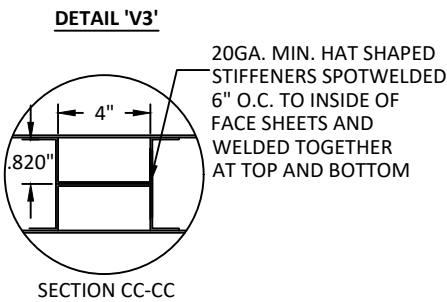
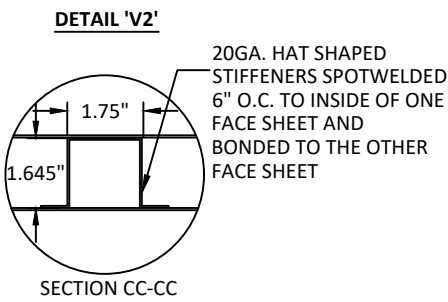
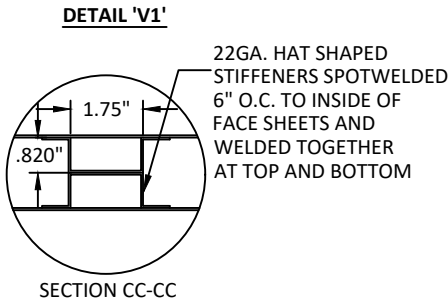
(D) HONEYCOMB
KRAFT PAPER.



(E) TEMPERATURE RISE CORE
MINERAL FIBER BOARD
DENSITY:17±1.5 LBS/FT³
OR
PSL-P250C-60
OR
CALCIUM SILICATE MINERAL CORE



(F) EXPANDED POLYSTYRENE FOAM
DENSITY:1.0 LB/FT³ OR
POLYISOCYANURATE (POLYURETHANE)
DENSITY:2 LBS/FT³



- NOTE:
1. CORE MATERIAL SHOWN WITHOUT HARDWARE REINFORCEMENTS
 2. STIFFENER QUANTITY VARIES PER DOOR WIDTH

TABLE 3: AVAILABLE STEELCRAFT H-SERIES DOOR CONFIGURATIONS

CORE MATERIAL	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	VARIES SEE SHEET 2 TABLE 1		CRS GALV	16/.053" 14/.067"



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE:
OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

DOOR PANEL & CORE DETAILS

PREPARED BY:

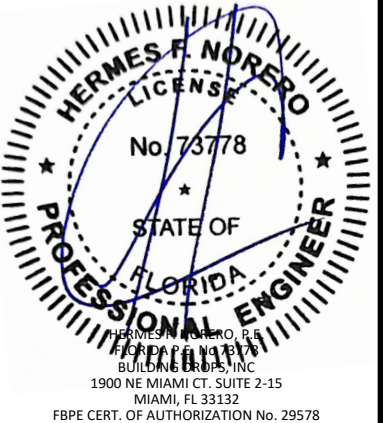
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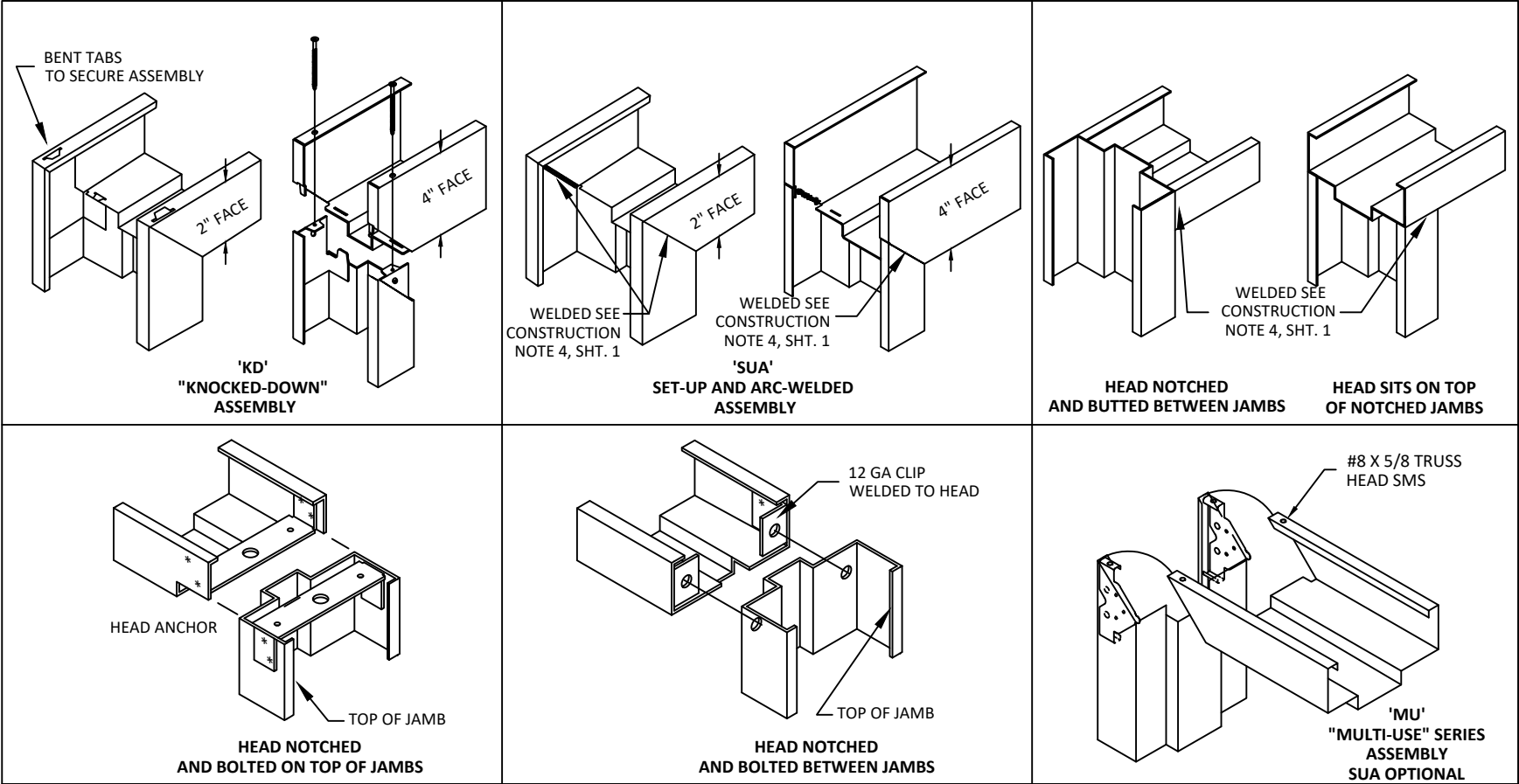


TABLE 4: AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067" 12/.099"
MU	5.75" MIN.	VARIES SEE SHEET 2 TABLE 1		CRS/HRS GALV	16/.053" 14/.067"

TABLE 5: STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV.	A924/A653		



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: FRAME DETAILS &
CORNER CONSTRUCTION

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT. SUITE 2-15

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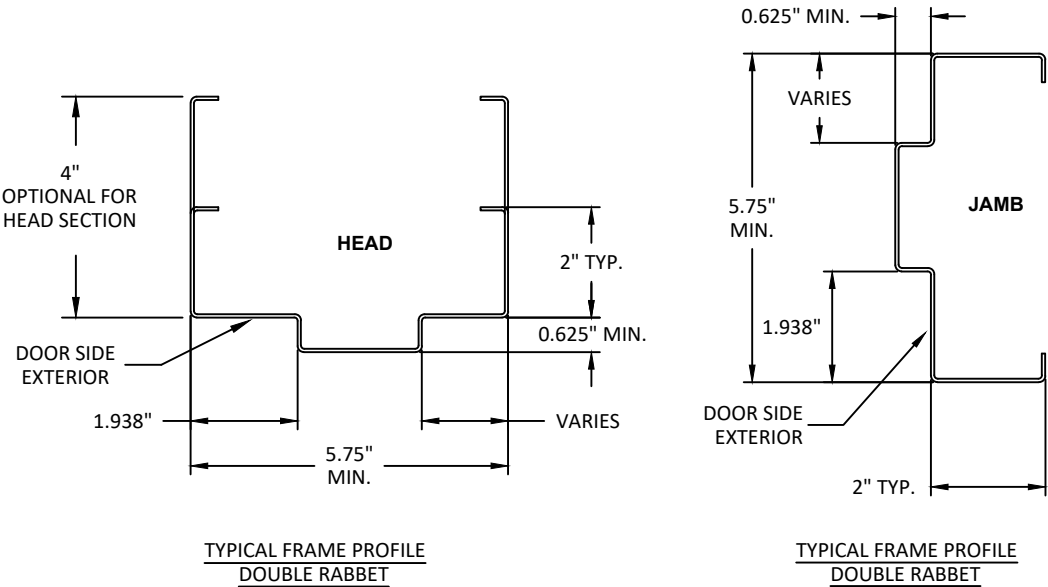
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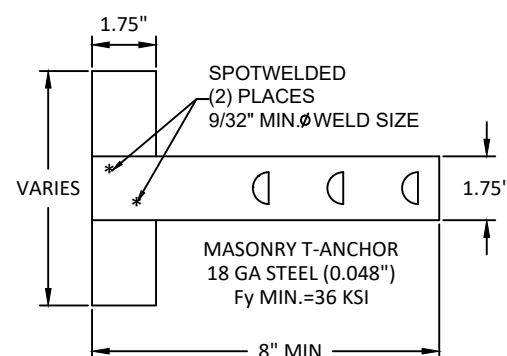
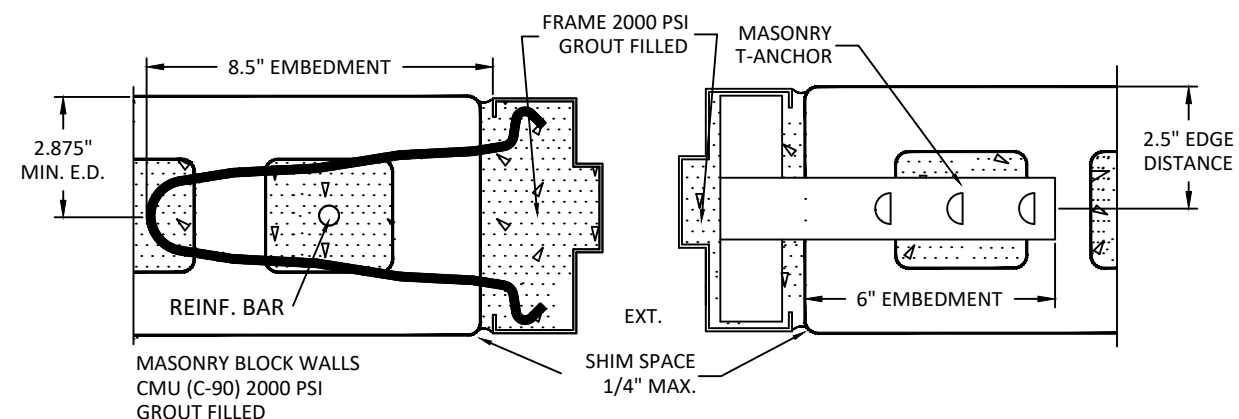
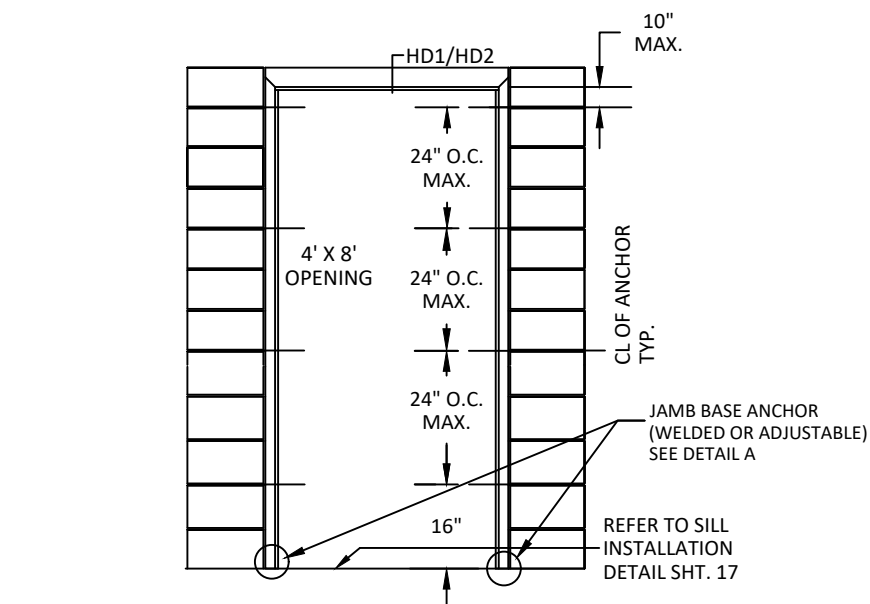
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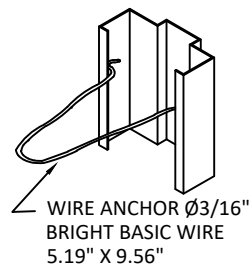
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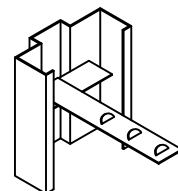
WIRE OR T MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



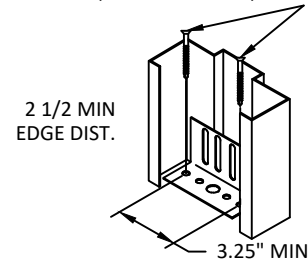
WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI
Fy MIN.=36 KSI



MASONRY
T-ANCHOR



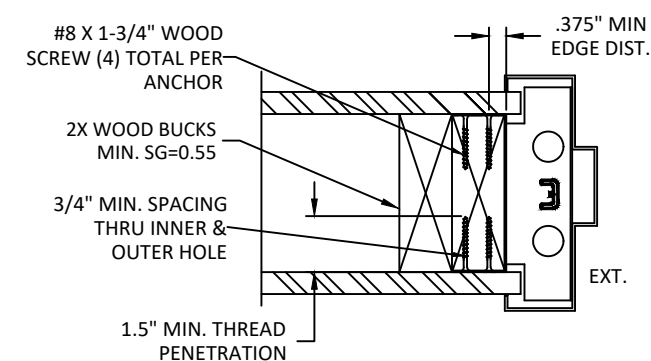
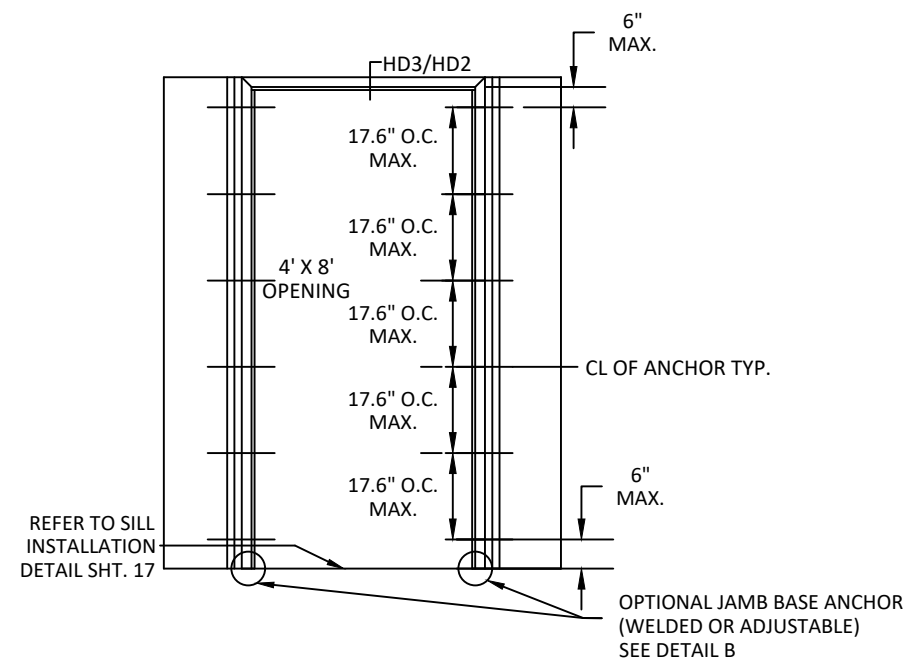
DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)



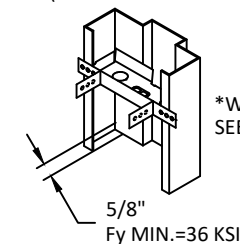
JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER BOLT,
DEWALT/POWERS LOK BOLT AS.
HILTI HLC-FPH SLEEVE ANCHOR,
SIMPSON STRONG TIE
SLEEVE-ALL OR 3/8" LAG BOLT
INTO (2) 2X WOOD SILL (SG=0.55)

WOOD STUD ANCHOR

SEE PAGE 27 FOR OPTION
2 ANCHOR DETAILS

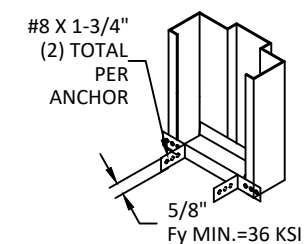


WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)



*WOOD STUD WALLS
SEE NOTE 12, SHT. 1

DETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)



NOTES:

NOTES:

1. (*W)OOD OR (*S)TEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
5. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

**TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)**

STEELCRAFT: ANCHORS - WIRE OR
T MASONRY ANCHOR & WOOD STUD

PREPARED BY:

BUILDING DROPS, IN
1900 NE MIAMI CT. SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478
FAX: (954)344-1738

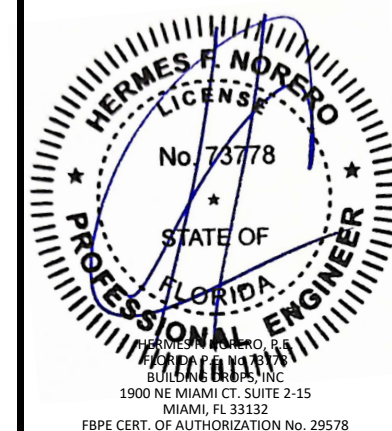
FAX: (934) 444-4738
WEB: www.buildingdrops.com



BID BUILDING DROPS

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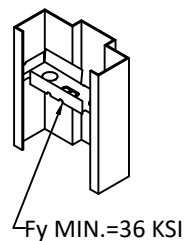
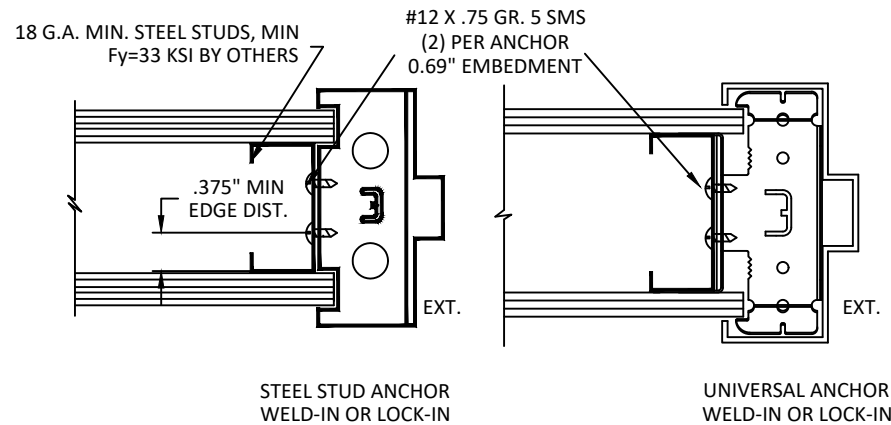
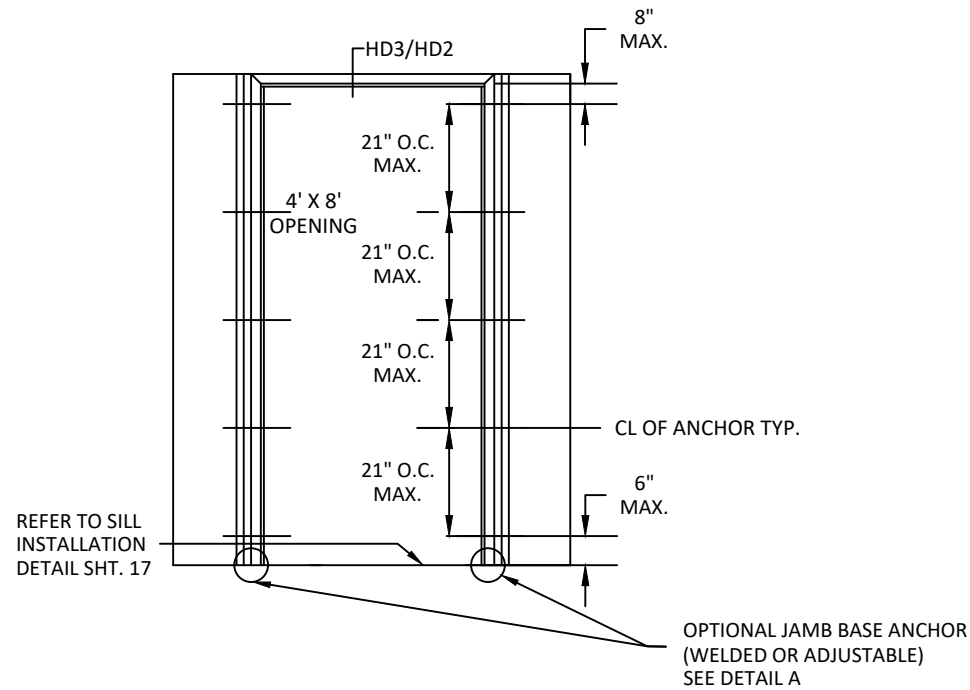
SHEET:

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SEE PAGE 28 FOR OPTION
2 ANCHOR DETAILS

C STEEL STUD ANCHOR

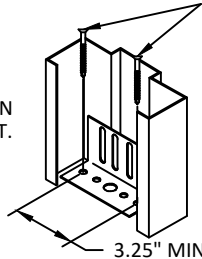


*STEEL STUD WALLS
SEE NOTE 12, SHT. 1

Fy MIN.=36 KSI

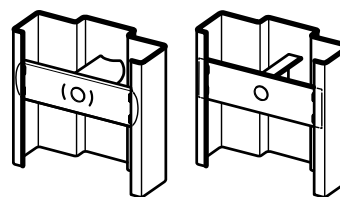
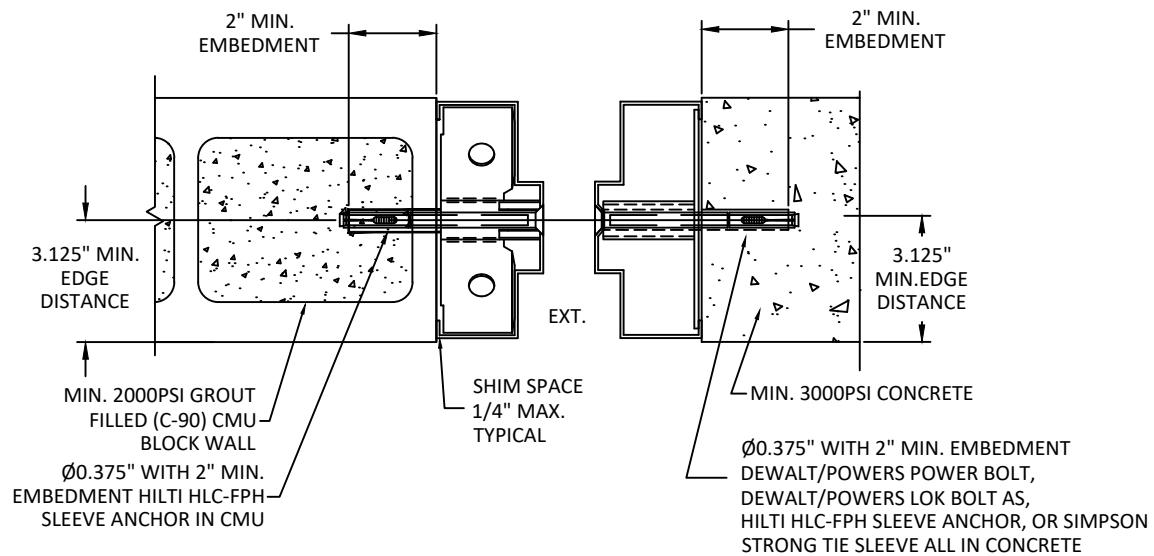
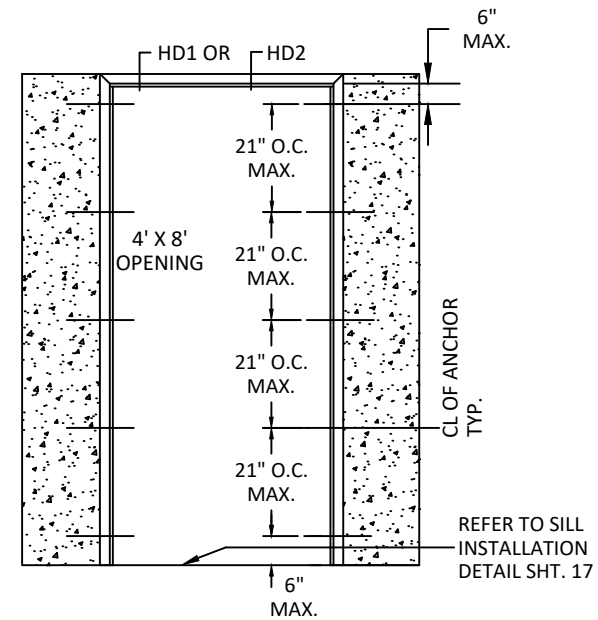
DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)

2 1/2 MIN
EDGE DIST.

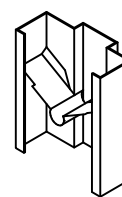


JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER BOLT,
DEWALT/POWERS LOK BOLT AS,
HILTI HLC-FPH SLEEVE ANCHOR,
SIMPSON STRONG TIE
SLEEVE-ALL OR 3/8" LAG BOLT
INTO (2) 2X WOOD SILL (SG=0.55)

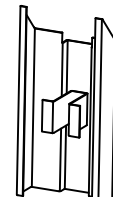
D EXISTING MASONRY ANCHOR (EMA)
INTO CONCRETE WALL OR CMU



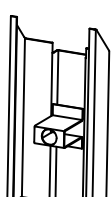
TUBE/CHANNEL &
PLATE BOLT-IN



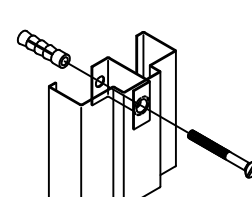
LOCK-IN



EMA-U ANCHOR



WELD-IN



EMA-U ANCHOR

TUBE & PLATE
WELD-IN EMA
ANCHOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - STEEL STUD
& EMA INTO CONCRETE WALL OR CMU

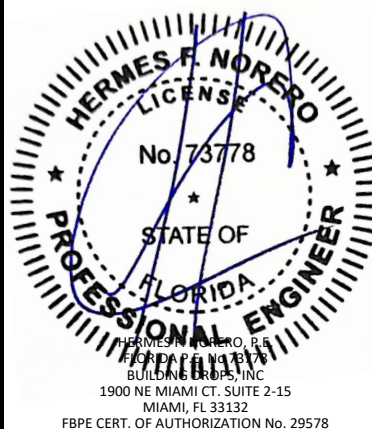
PREPARED BY:
BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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DATE: 05.04.22

DWG. BY:
CPA

CHK. BY:
HFN

SCALE: NTS

DWG. #: IRFS07

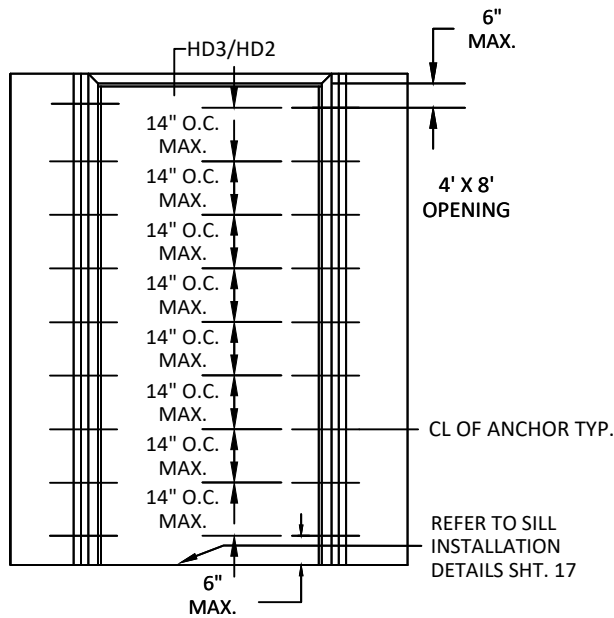
SHEET:

13

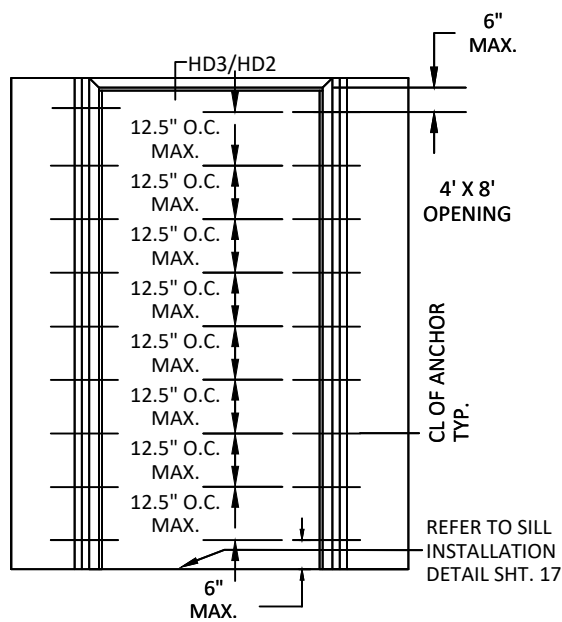
OF 32

SEE PAGE 29 FOR OPTION
2 ANCHOR DETAILS

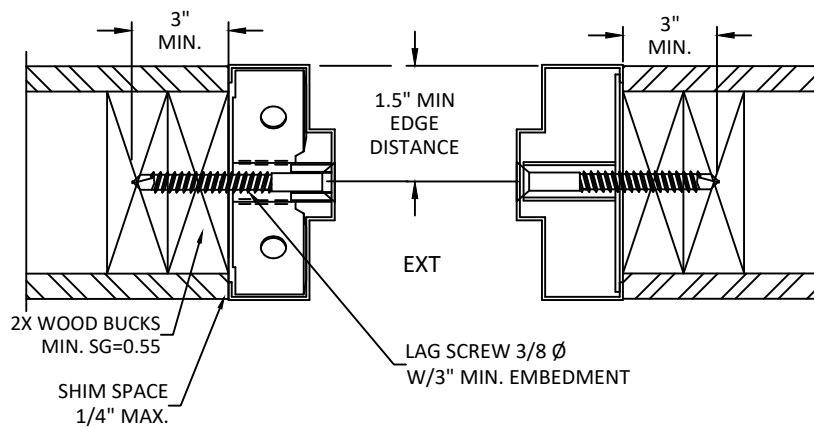
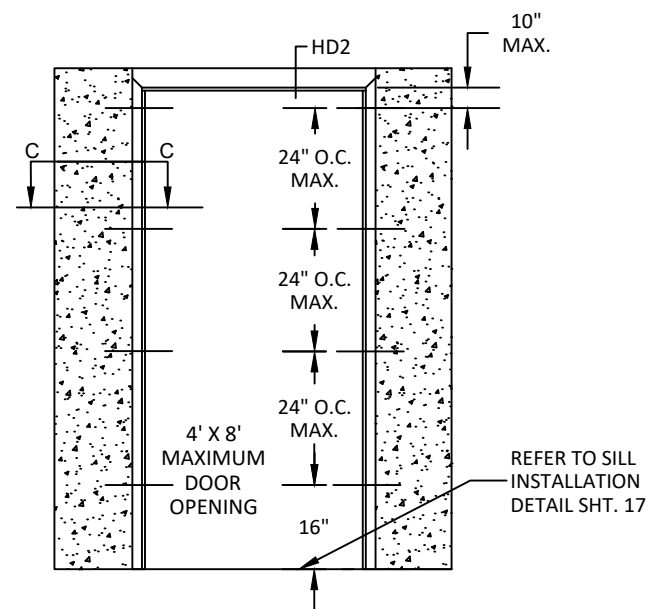
E1 EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL
UP TO 70 PSF



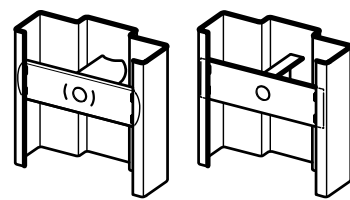
E2 EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL
UP TO 100 PSF



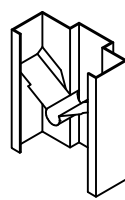
F POURED CONCRETE
TILT UP WALL



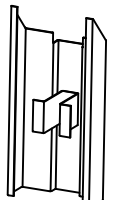
*WOOD STUD WALLS
SEE NOTE 12, SHT. 1



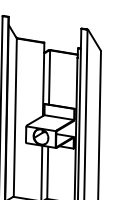
TUBE/CHANNEL &
PLATE BOLT-IN



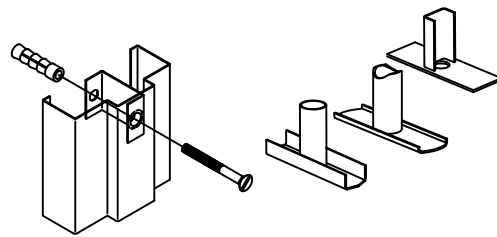
LOCK-IN



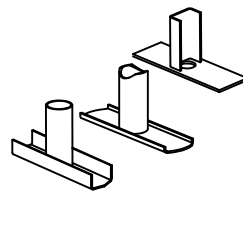
EMA-U ANCHOR



WELD-IN

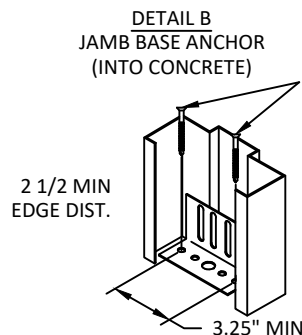


EMA-U ANCHOR



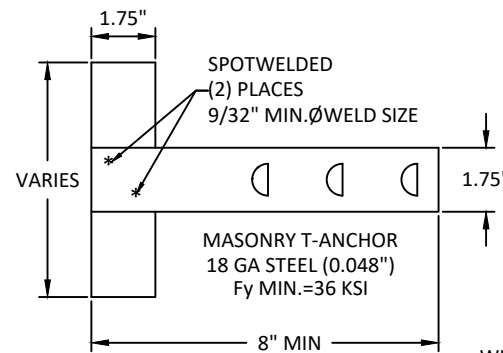
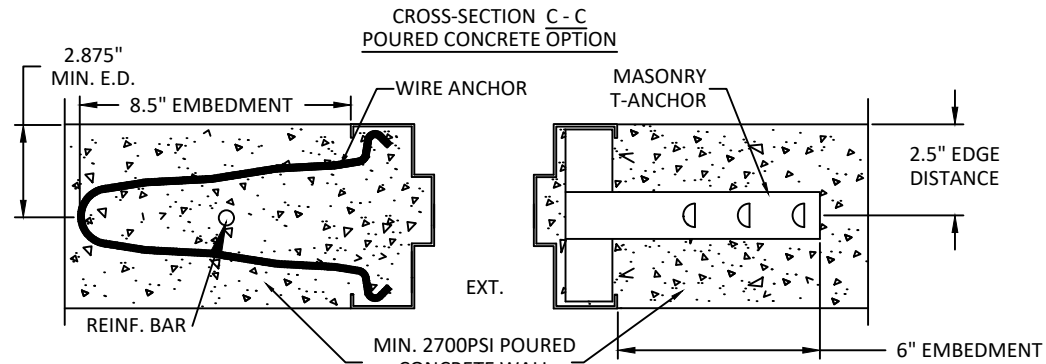
TUBE & PLATE
WELD-IN EMA
ANCHOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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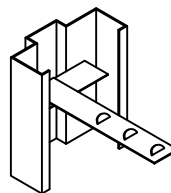
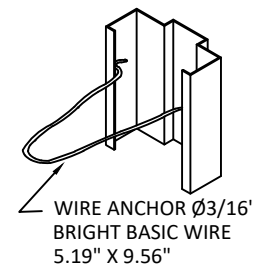
JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER BOLT,
DEWALT/POWERS LOK BOLT AS.
HILTI HLC-FPH SLEEVE ANCHOR,
SIMPSON STRONG TIE
SLEEVE-ALL OR 3/8" LAG BOLT
INTO (2) 2X WOOD SILL (SG=0.55)

NOTE:
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR
EQUIVALENT.



WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI
Fy MIN.=36 KSI

MASONRY
T-ANCHOR

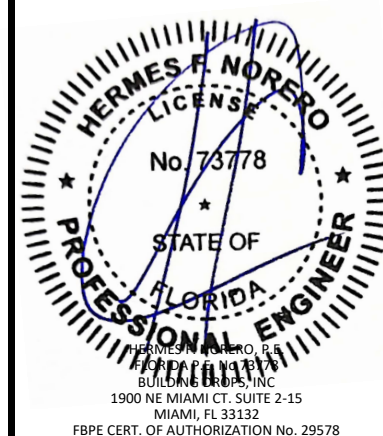


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
STEELCRAFT: ANCHORS - EMA W/ LAG
BOLT IN WOOD STUD
WALL & POURED CONCRETE TILT UP WALL
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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DATE:	05.04.22
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CHK. BY:	HFN
SCALE:	NTS
DWG. #:	IRFS07
SHEET:	14

G

FRAMES BOLTED TO BUILDING STRUCTURE

SEE PAGE 30 FOR OPTION
2 ANCHOR DETAILS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - FRAMES
BOLTED TO BUILDING STRUCTURE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

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CPA

CHK. BY:
HFN

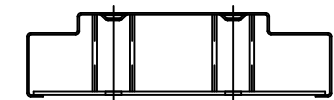
SCALE: NTS

DWG. #: IRFS07

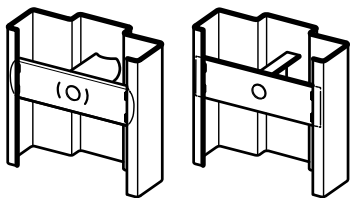
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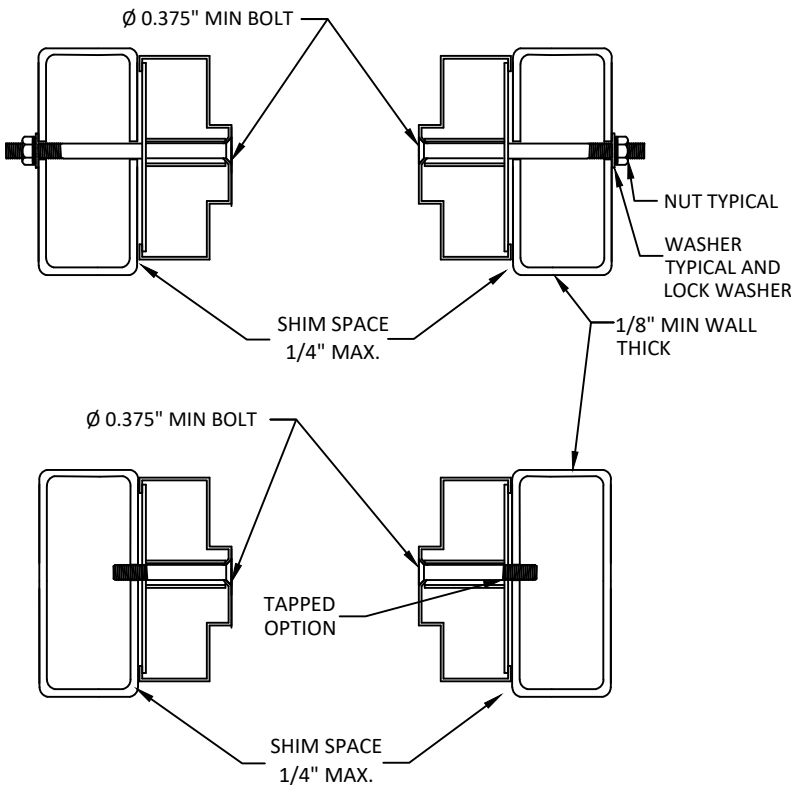
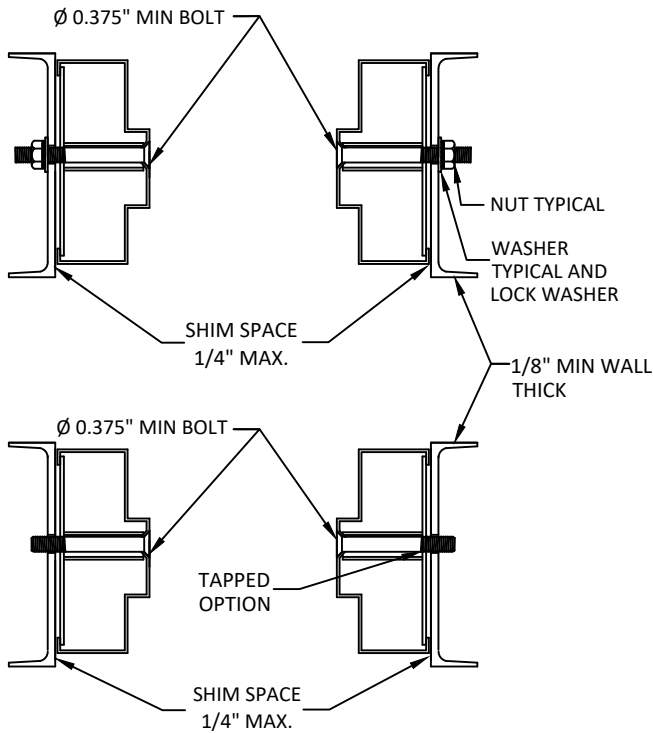
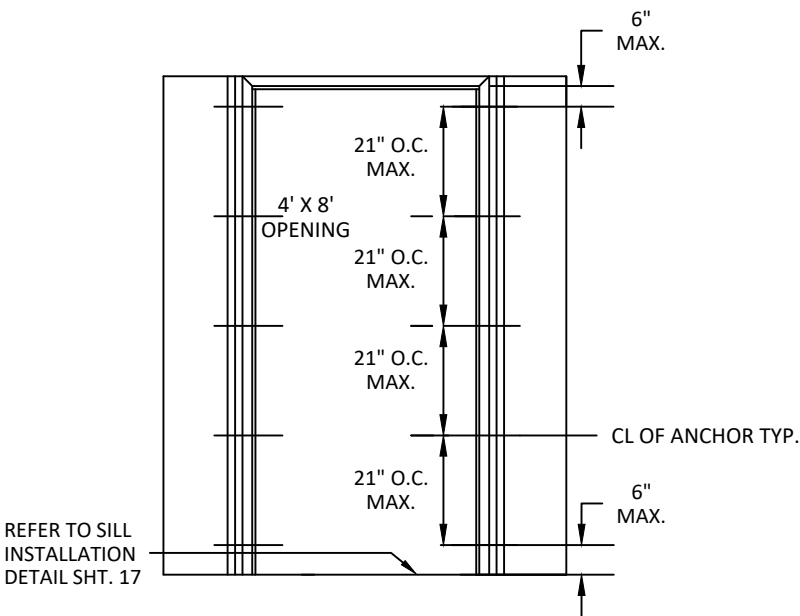
OF 32



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN



NOTE:
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR
EQUIVALENT.

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD
WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR
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2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY
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3.SEALED JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR
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4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK
FULL LENGTH OF SILL
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THE LOCAL AHJ.



WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE

SEE PAGE 31 FOR OPTION
2 ANCHOR DETAILS

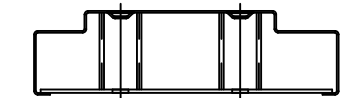


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

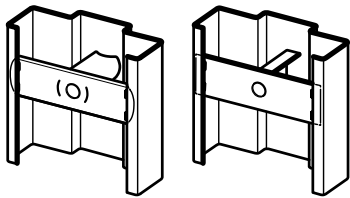
TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

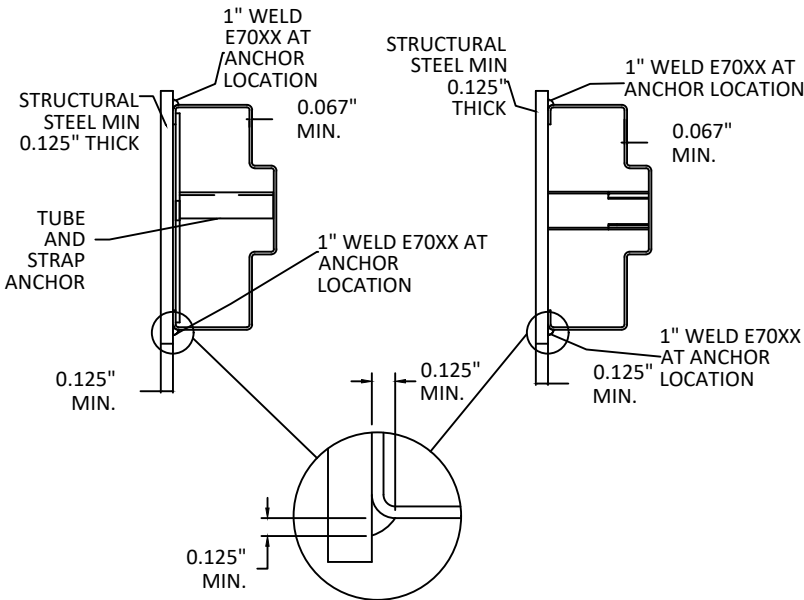
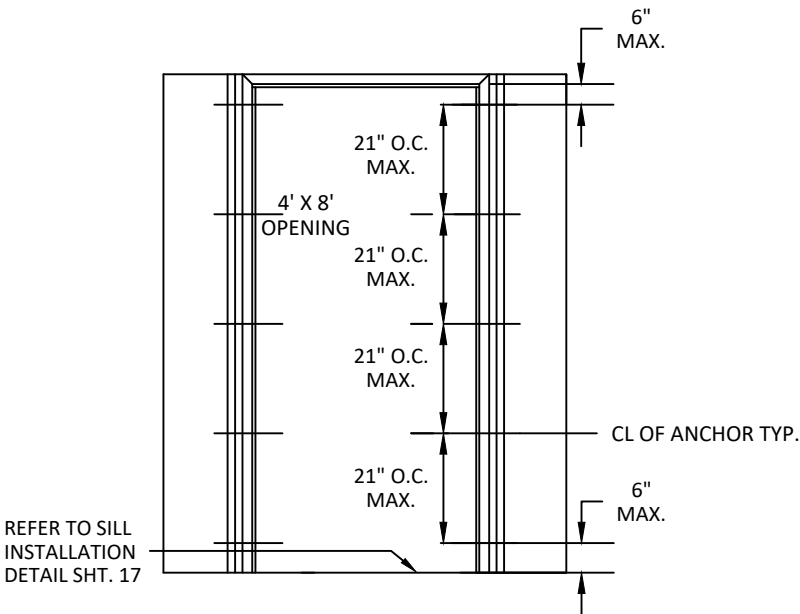
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



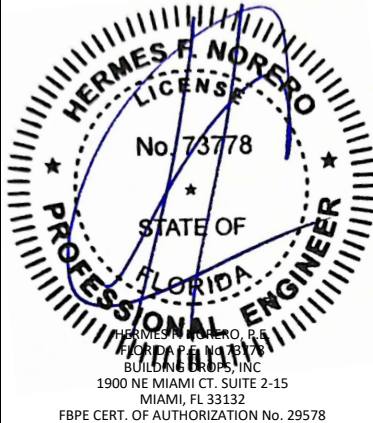
TUBE/CHANNEL &
PLATE BOLT-IN



NOTES:
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4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK
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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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DATE: 05.04.22

DWG. BY: CPA
CHK. BY: HFN

SCALE: NTS

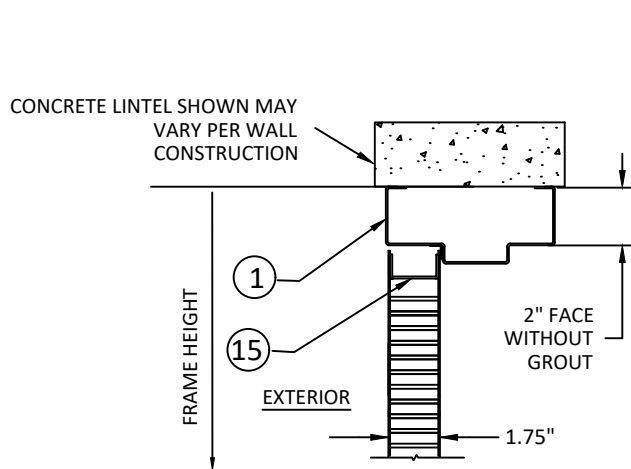
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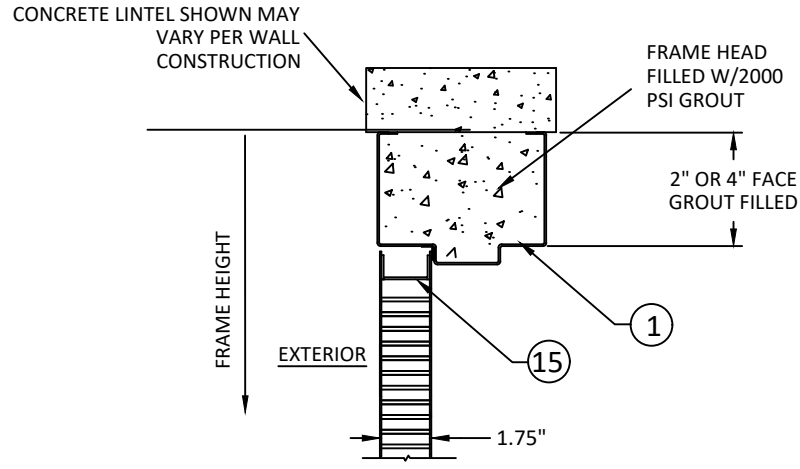
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OF 32

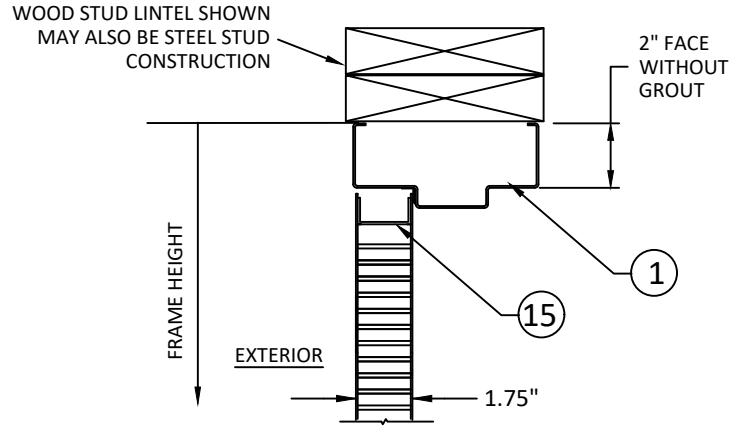
SEE PAGE 32 FOR OPTION
2 ANCHOR DETAILS



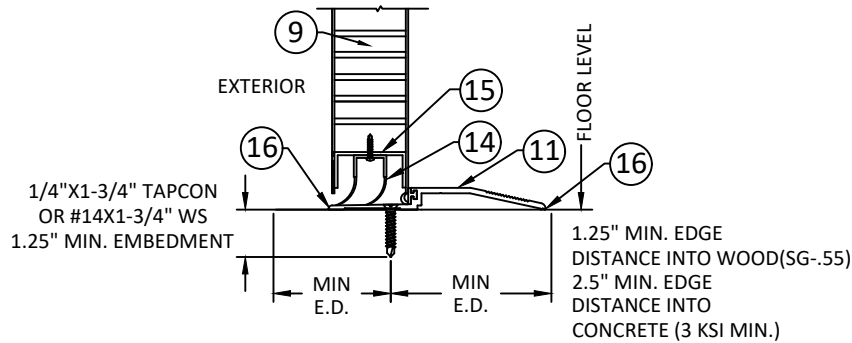
HD1 - FRAME HEAD SECTION



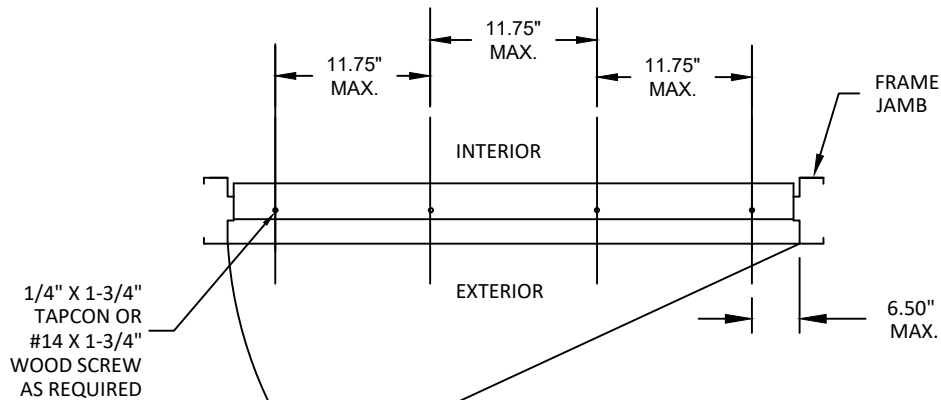
HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



DETAIL 'TH' SILL
INSTALLATION SIDE VIEW
E.D. - EDGE DISTANCE



DETAIL 'TH'
SILL INSTALLATION
SINGLE OUTSWING DOOR

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: FRAME HEAD &
SILL ANCHOR DETAILS

PREPARED BY: BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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CHK. BY: HFN

SCALE: NTS

DWG. #: IRFS07

SHEET:

17

OF 32



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
GASKETING DETAILS FOR
WATER INFILTRATION

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL12400

DATE: 05.04.22

DWG. BY: CPA
CHK. BY: HFN

SCALE: NTS

DWG. #: IRFS07

SHEET:

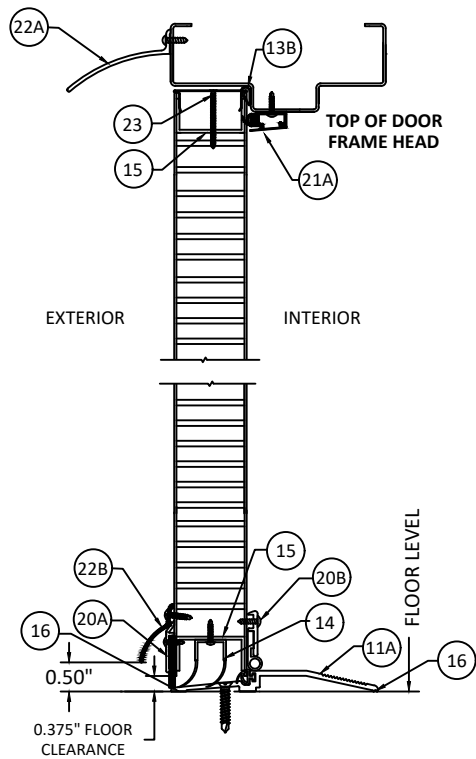
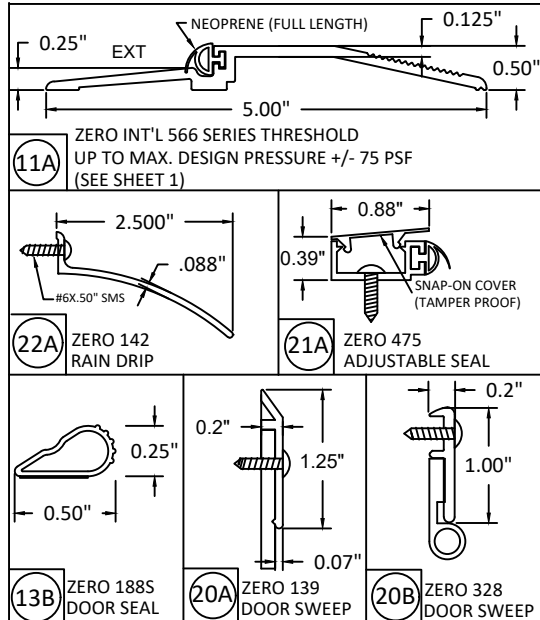
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OF 32

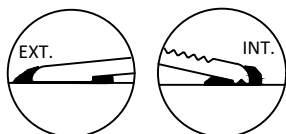
TABLE 6.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
11A	566 THRESHOLD	ZERO INT'L
13B	188S DOOR SEAL	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
20A	139 DOOR SWEEP	ZERO INT'L
20B	328 DOOR SWEEP	ZERO INT'L
21A	475 ADJUSTABLE SEAL	ZERO INT'L
22A	142 RAIN DRIP	ZERO INT'L
22B	11 RAIN DRIP	ZERO INT'L
23A	DOOR TOP CAP	STEELCRAFT
23B	FLUSH TOP CAP	STEELCRAFT

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM
REQUIREMENTS FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF -
MAXIMUM DOOR SIZE 4'-0" X 8'-0"
(SEE ELEVATIONS SHEETS 3-6)



BOTTOM OF DOOR WEATHERSTRIPPING
AND SILL INSTALLATION



TYPICAL THRESHOLD SET INTO BEAD
OF CAULK SEE NOTE 6

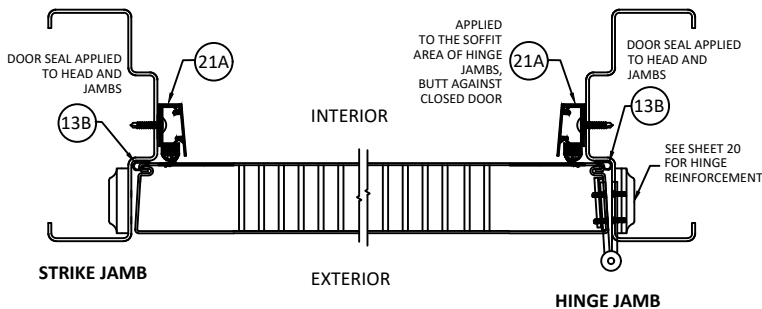
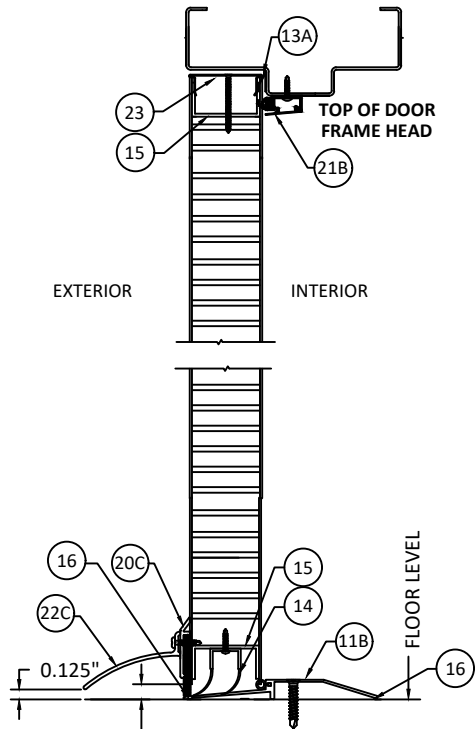
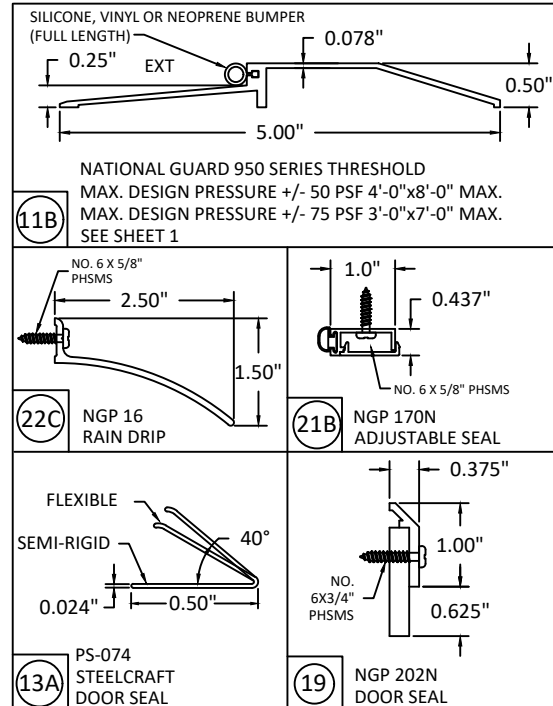


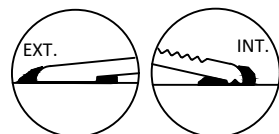
TABLE 6.2 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
13A	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
19	202N DOOR SEAL	NGP
20C	200N DOOR SWEEP	NGP
21B	170N ADJUSTABLE SEAL	NGP
22C	16A RAIN DRIP	NGP
23A	DOOR TOP CAP	STEELCRAFT
23B	FLUSH TOP CAP	STEELCRAFT

NGP 950 THRESHOLD GASKETING SYSTEM
REQUIREMENTS FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF FOR
MAXIMUM DOOR SIZE OF 3'-0" X 7'-0"
MAXIMUM DESIGN PRESSURE 50 PSF FOR MAXIMUM
DOOR SIZE OF 4'-0" X 8'-0"
(SEE ELEVATIONS SHEET 3-6)



BOTTOM OF DOOR WEATHERSTRIPPING
AND SILL INSTALLATION



TYPICAL THRESHOLD SET INTO BEAD
OF CAULK SEE NOTE 6

NOTES:

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (14) AND THRESHOLD (11) ARE REQUIRED FOR ALL INSTALLATIONS.
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
7. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.

ITEM NUMBER	MODEL NO./ DESCRIPTION		MFG.
11	11A	566 THRESHOLD	ZERO INT'L
	11C	65 THRESHOLD	ZERO INT'L
	11D	568 THRESHOLD	ZERO INT'L
13	13A	PS074 DOOR SEAL	STEELCRAFT
	13B	188S DOOR SEAL	ZERO INT'L
	13C	117S DOOR SEAL	ZERO INT'L
	13D	8144S DOOR SEAL	ZERO INT'L
	13E	8150S DOOR SEAL	ZERO INT'L
14	-	FAS-SEAL SWEEP	STEELCRAFT
15	-	END CHANNEL	STEELCRAFT
23	23A	TOP CAP	STEELCRAFT
	23B	FLUSH TOP CAP	STEELCRAFT

Diagram illustrating the door assembly details, showing the interior and exterior views of the door frame and door.

Labels and Callouts:

- DOOR SEAL APPLIED TO HEAD AND JAMBS
- 13
- INTERIOR
- EXTERIOR
- STRIKE JAMB
- HINGE JAMB
- SEE SHEET 20 FOR HINGE REINFORCEMENT

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
11B	950 THRESHOLD	NGP
13A	PS074 DOOR SEAL	STEELCRAFT
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
23	TOP CAP	STEELCRAFT
23B	FLUSH TOP CAP	STEELCRAFT

1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. FAS-SEAL DOOR SWEEP (14) AND THRESHOLD (11) AS APPLICABLE.
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL.
7. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.

Diagram illustrating the door cross-section and components:

- DOOR SEAL APPLIED TO HEAD AND JAMBS
- 13A
- INTERIOR
- EXTERIOR
- STRIKE JAMB
- HINGE JAMB
- SEE SHEET 20 FOR HINGE REINFORCEMENT



**OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
GASKETING DETAILS FOR
NO WATER INFILTRATION**

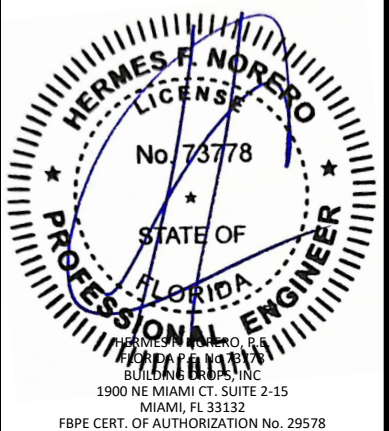
BUILDING DROPS

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744.4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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------------------------	------------------------

SCALE: NTS

DWG. #: IRFS07

SHEET:

19

OF 32



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

HINGES, THRESHOLDS, & CHANNELS

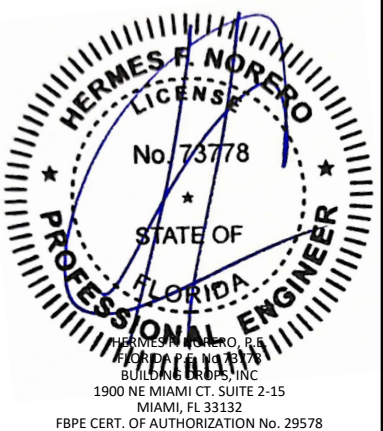
PREPARED BY: BUILDING DROPS, INC.

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MIAMI, FL 33132
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CHK. BY: HFN

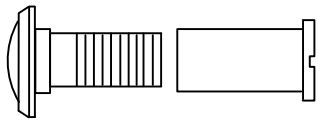
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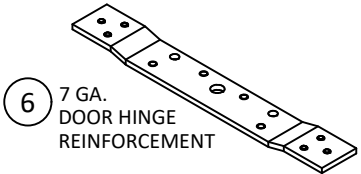
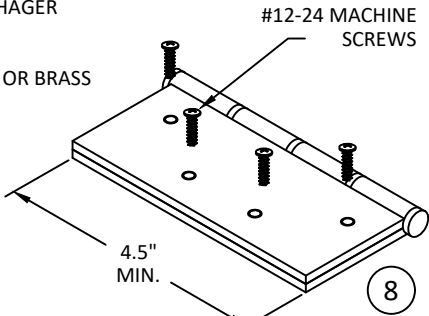
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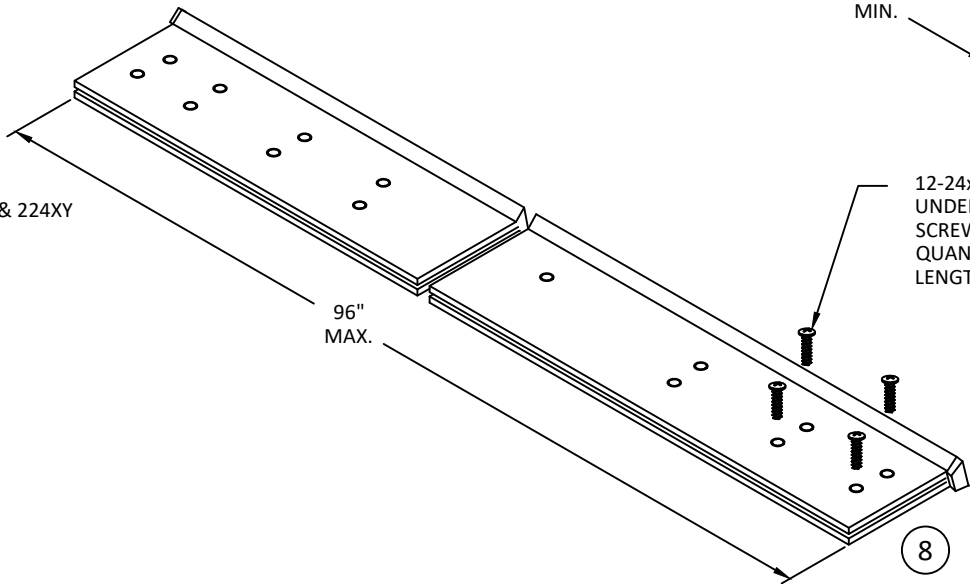
24 IVES 698/U698 DOOR VIEWER
APPLICATION LIMITED TO +/- 75 PSF DESIGN
PRESSURE OR LESS

BUTT HINGE 4.5" STD. WT. MIN.
IVES 5BB1/3CB1
STANLEY FBB179/1900 HAGER
BB1279
.134" MIN. THICKNESS
STEEL, STAINLESS STEEL OR BRASS

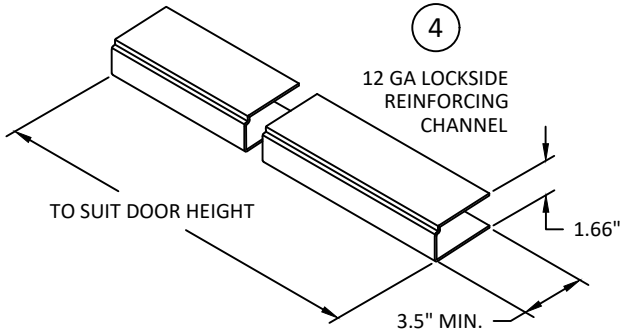


SEE HINGE DETAIL
SHEET 20

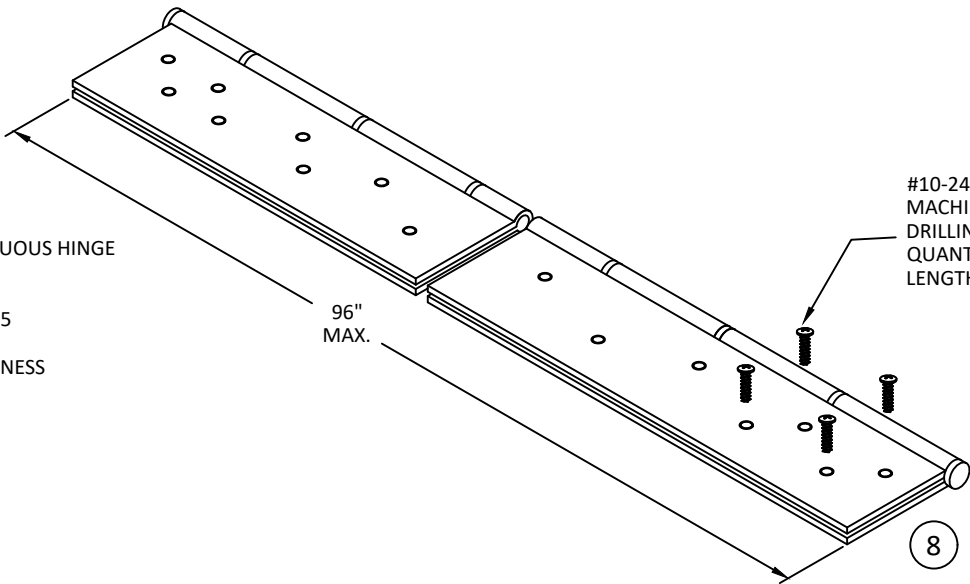
CONTINUOUS HINGE
IVES 112HD, 112XY, 224HD & 224XY
STANLEY 661HD
SELECT SL11HD
PEMCO FM_HD SERIES
HAGER 780-224HD
ABH A240HD
ALUMINUM 6036-T6 MIN
.110" MIN. THICKNESS



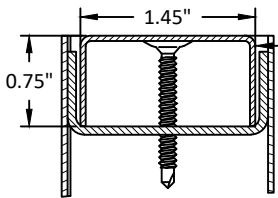
12-24x3/4"FLAT HEAD
UNDERCUT SELF DRILLING
SCREW DOOR AND FRAME LEAF
QUANTITY VARIES PER HINGE
LENGTH



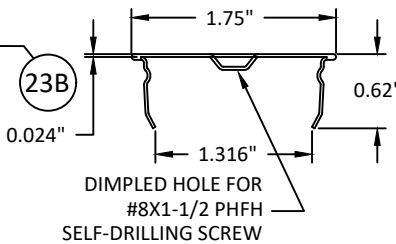
STAINLESS STEEL CONTINUOUS HINGE
IVES 700, 700CS
HAGER 790-900
MARKAR FM-300 & HG305
ABH A500
.075" MIN. (14GA.) THICKNESS
304 STAINLESS STEEL



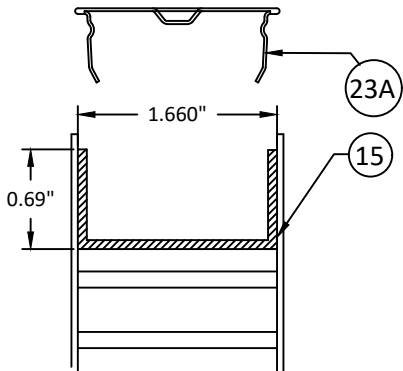
#10-24X 1/2" MIN.
MACHINE SCREW OR SELF
DRILLING EACH HINGE LEAF
QUANTITY VARIES PER HINGE
LENGTH



23B STEELCRAFT: 18 GA
FLUSH TOP CAP
(OPTIONAL)



23A STEELCRAFT: 24 GA TOP CAP
(OPTIONAL)



15 STEELCRAFT: TOP & BOTTOM CHANNEL
L=FULL DOOR WIDTH
14 GAGE

HINGE NOTES:
1. QUANTITY OF SCREWS VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
2. SCREW SPACING VARIES PER HINGE LENGTH, MANUFACTURER AND MODEL NUMBER
3. INSTALL HINGES PER THE MANUFACTURERS INSTALLATION INSTRUCTIONS
4. BUTT AND CONTINUOUS HINGES MAY INCLUDE ELECTRICAL THROUGH-WIRE, POWER TRANSFER, AND MONITORING.
5. DOORS AND FRAMES DO NOT REQUIRE ADDITIONAL REINFORCEMENT WITH A CONTINUOUS HINGE.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE:
OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

LOCKING HARDWARE

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

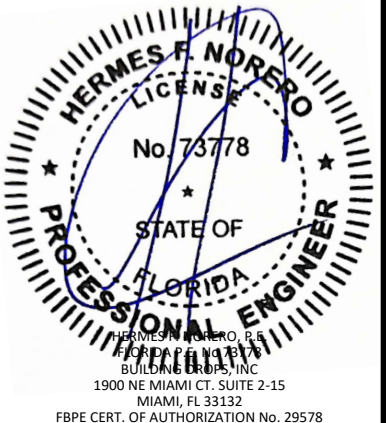
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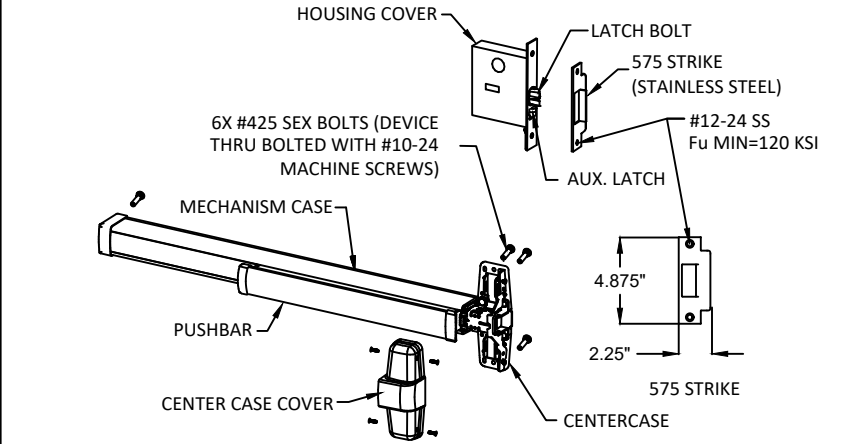
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DWG. #: IRFS07

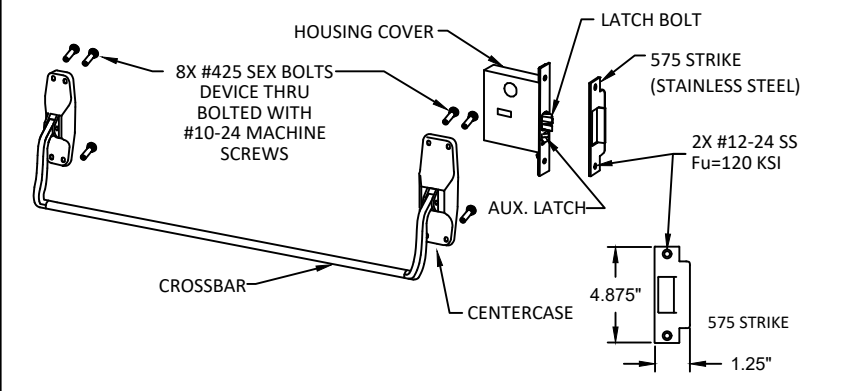
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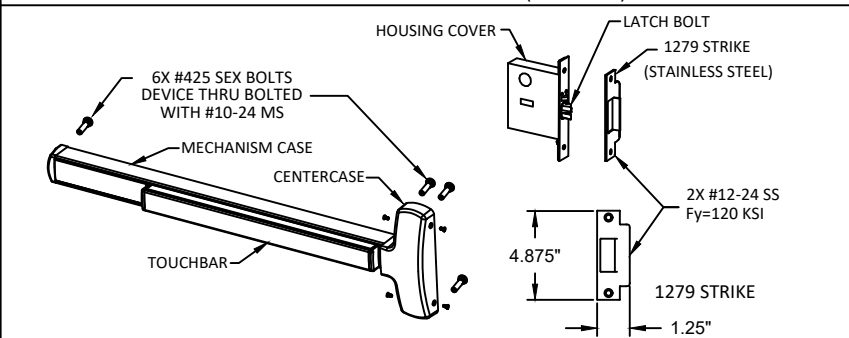
OF 32



MORTISE EXIT DEVICE VON DUPRIN 9875, 9975, 9875-F & 9975-F
USED IN DOOR CONFIGURATION 10 (SEE SHT. 5)



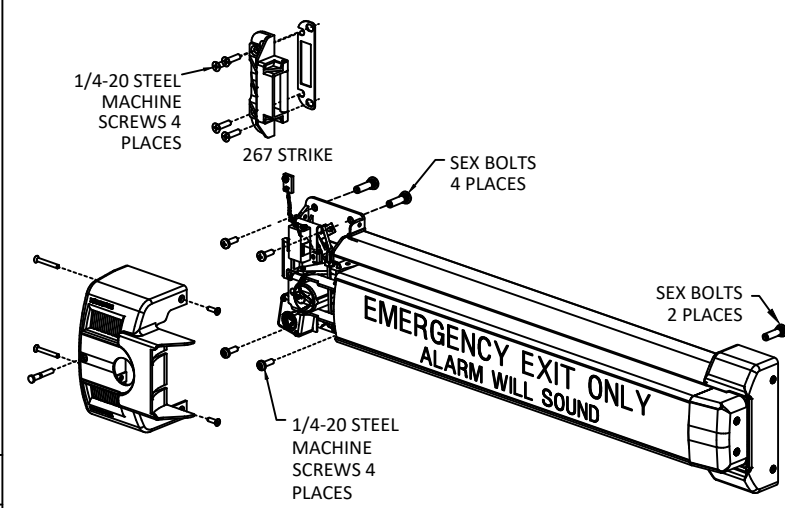
MORTISE EXIT DEVICE VON DUPRIN 8875 & 8875-F
USED IN DOOR CONFIGURATION 10 (SEE SHT. 5)



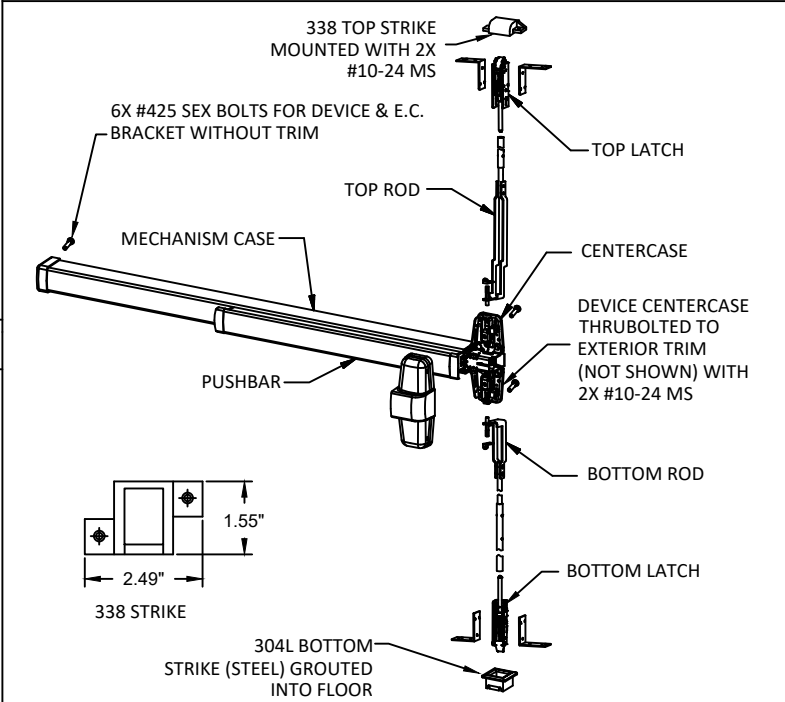
MORTISE EXIT DEVICE FALCON F-25-M & 25-M
USED IN DOOR CONFIGURATION 10 (SEE SHT. 5)

NOTE:
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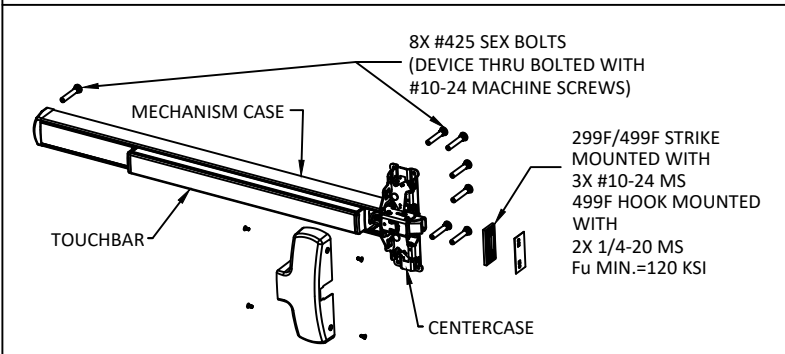
EXIT HARDWARE OPTIONS:
1. FOR 98/99, HH78 & XP98/99 SERIES - E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
2. FOR 88-F SERIES RIM - OPTION E TRIMS: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.
3. FOR 2670 GUARD-X; TRIMS: ALL APPLICABLE TRIMS AVAILABLE.
4. FOR FALCON (F)25-R, (F)25-M, F-25-C & (F)25-V SERIES - OPTIONS AE, DM, LM, KOR, MEL, EA, FSA, FSE, CD, RX, LD TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



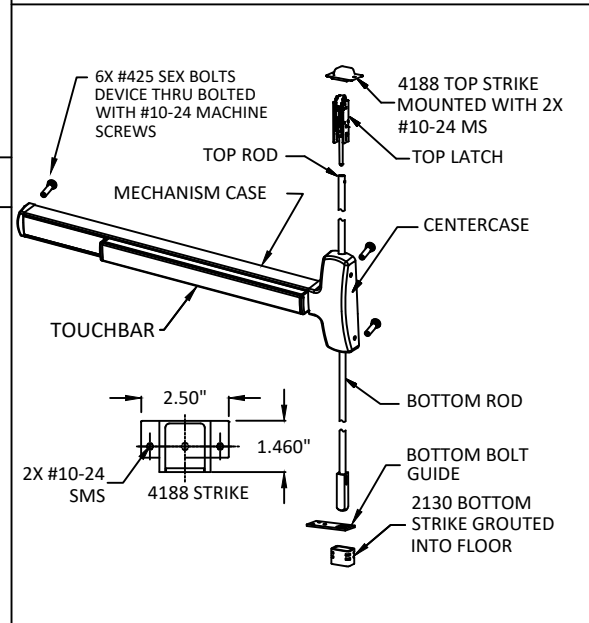
EXIT ALARM LOCK VON DUPRIN 2670 GUARD-X
USED IN DOOR CONFIGURATION 11 (SEE SHT. 5)



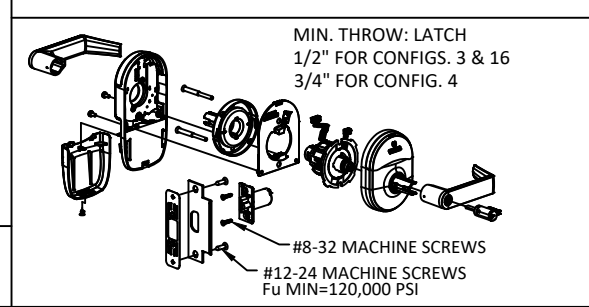
CONCEALED VERTICAL ROD EXIT DEVICE VON DUPRIN 98/9947-F, HH98/9947, HH7847 & HH7847-F WITH 2-3/4" BACKSET
USED IN DOOR CONFIGURATION 6 (SEE SHT. 4)



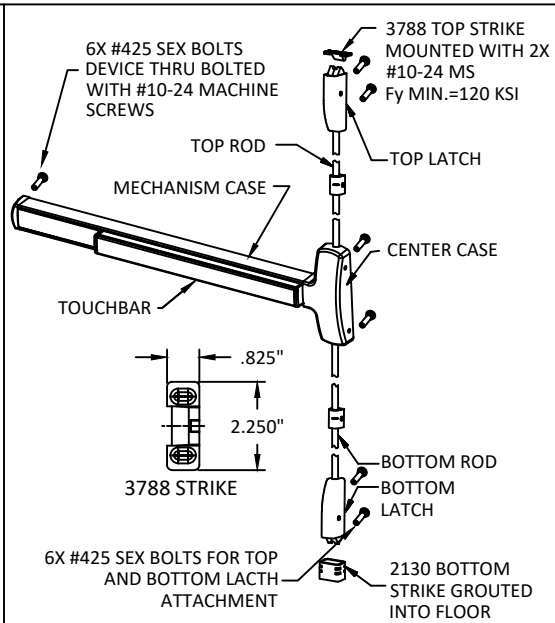
RIM EXIT DEVICE FALCON F-25-R & 25-R
USED IN DOOR CONFIGURATION 13 (SEE SHT. 6)



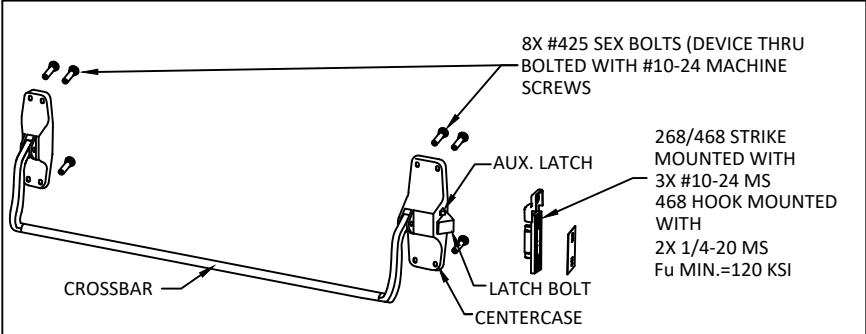
CONCEALED VERTICAL ROD EXIT DEVICE FALCON F-25-C
USED IN DOOR CONFIGURATION 6 (SEE SHT. 5)



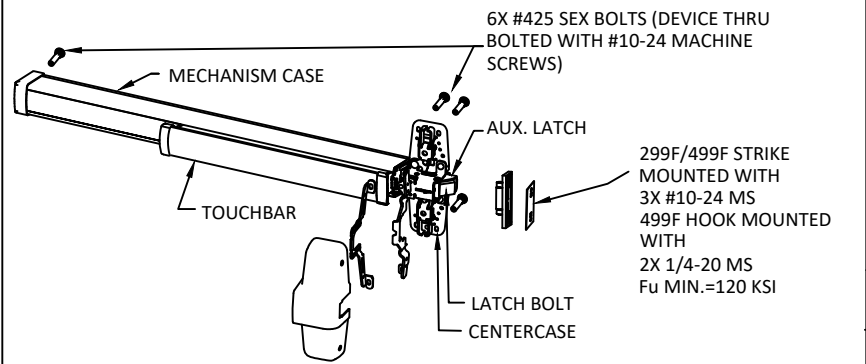
SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET
USED IN DOOR CONFIGURATIONS: 3, 4 & 16 (SEE SHT. 3, 4, & 6)



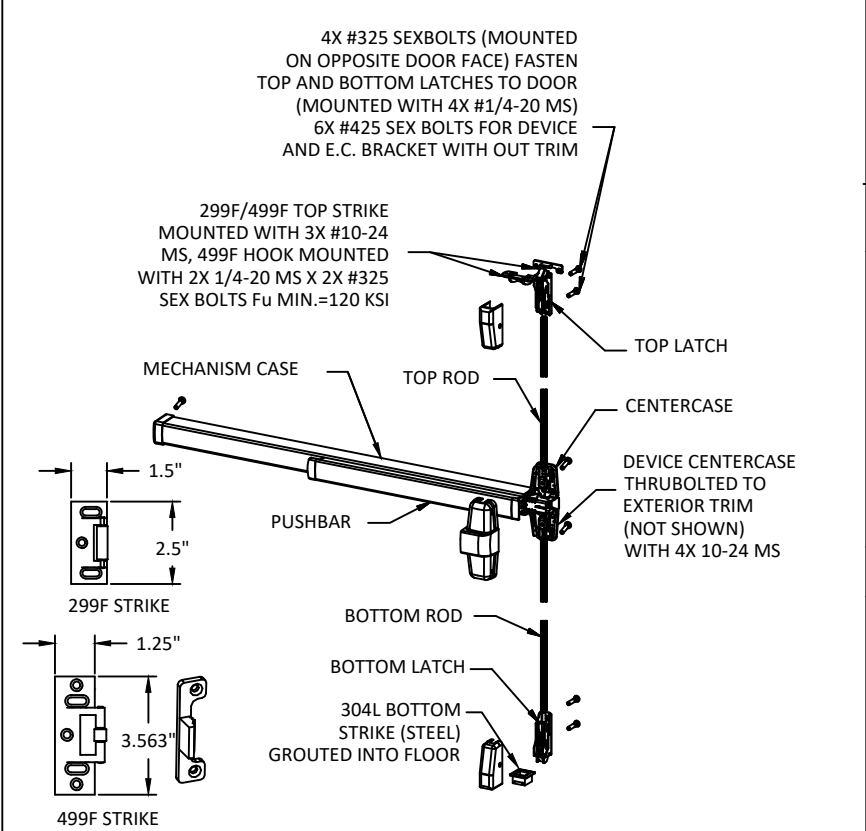
SURFACE VERTICAL ROD EXIT DEVICE FALCON F-25-V & 25-V
USED IN DOOR CONFIGURATION 5 (SEE SHT. 4)



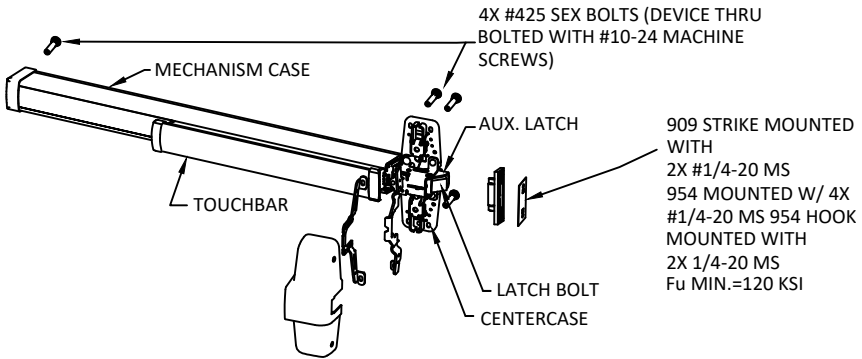
RIM EXIT DEVICE VON DUPRIN 88-F
USED IN DOOR CONFIGURATION 8 (SEE SHT. 4)



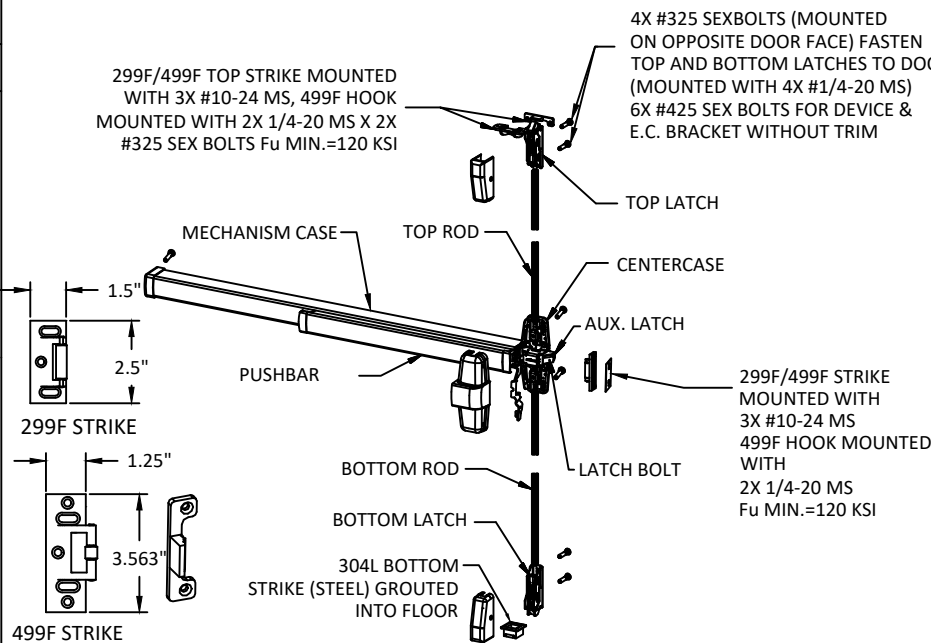
RIM EXIT DEVICE VON DUPRIN 98, 99, 98-F, 99-F, HH78 & HH78-F
USED IN DOOR CONFIGURATION 8 (SEE SHT. 4)



SURFACE VERTICAL ROD EXIT DEVICE VON DUPRIN 9827, 9927, 9827-F,
9927-F, HH7827 & HH7827-F
USED IN DOOR CONFIGURATION 5 (SEE SHT. 4)



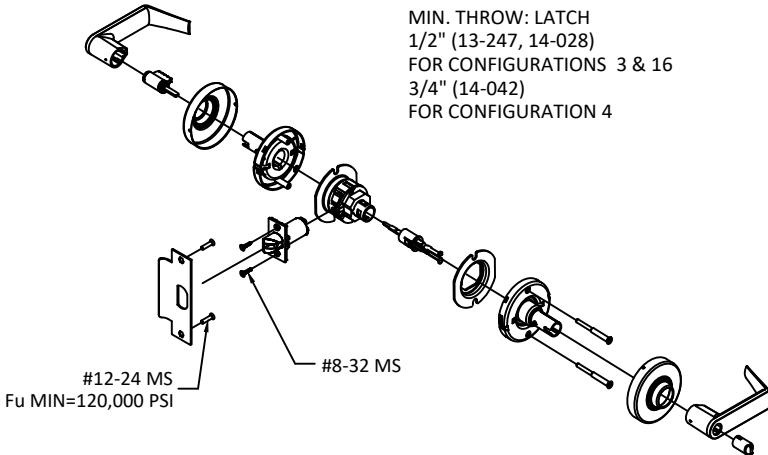
RIM EXIT DEVICE VON DUPRIN XP98, XP99, XP98-F & XP99-F
USED IN DOOR CONFIGURATION 9 (SEE SHT. 5)



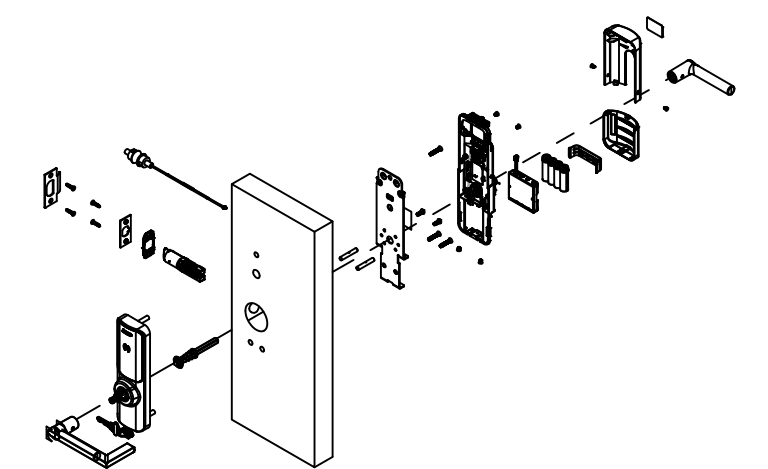
THREE-POINT EXIT DEVICE VON DUPRIN 9857, 9957, 9857-F & 9957-F
USED IN DOOR CONFIGURATION 7 (SEE SHT. 4)

NOTE:
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EXIT HARDWARE OPTIONS:
1. FOR 98/99, HH78 & XP98/99 SERIES - E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN TRIMS: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.



SCHLAGE ALX & PC SERIES CYLINDRICAL LOCKSET
USED IN DOOR CONFIGURATIONS 3, 4 & 16 (SEE SHT. 3, 4, & 6)



SCHLAGE XE360-T TUBULAR LOCKSET WITH 1/2" THROW LATCH
USED IN DOOR CONFIGURATION 17



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE:
OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

LOCKING HARDWARE CONT.

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
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REMARKS	BY	DATE
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MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
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FL12400

DATE: 05.04.22

DWG. BY:
CPA

CHK. BY:
HFN

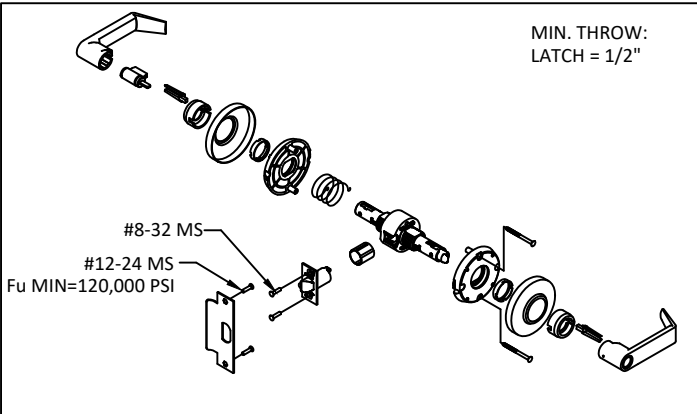
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DWG. #: IRFS07

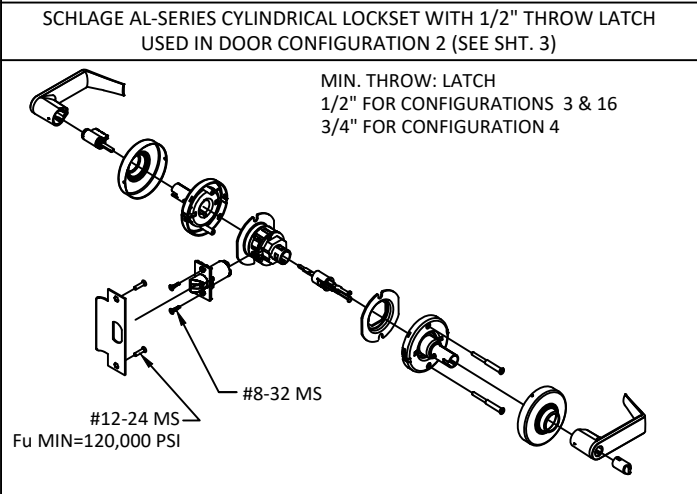
SHEET:

22

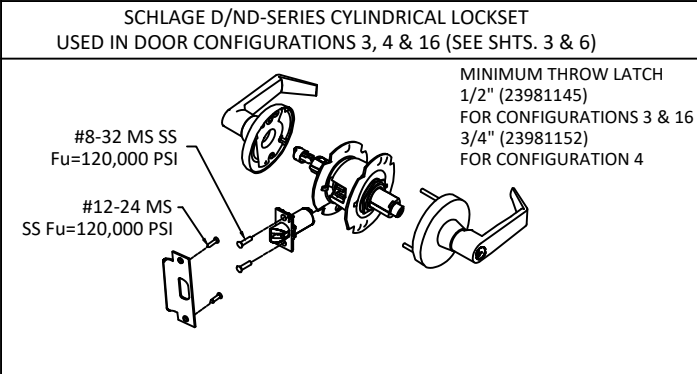
OF 32



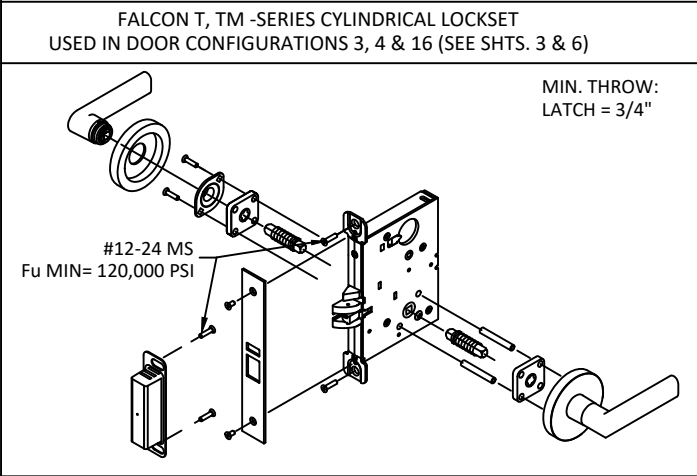
MIN. THROW:
LATCH = 1/2"



MIN. THROW: LATCH
1/2" FOR CONFIGURATIONS 3 & 16
3/4" FOR CONFIGURATION 4

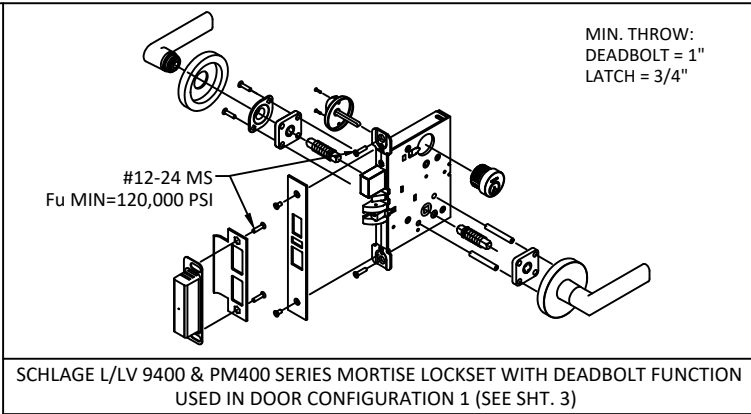


MINIMUM THROW LATCH
1/2" (23981145)
FOR CONFIGURATIONS 3 & 16
3/4" (23981152)
FOR CONFIGURATION 4

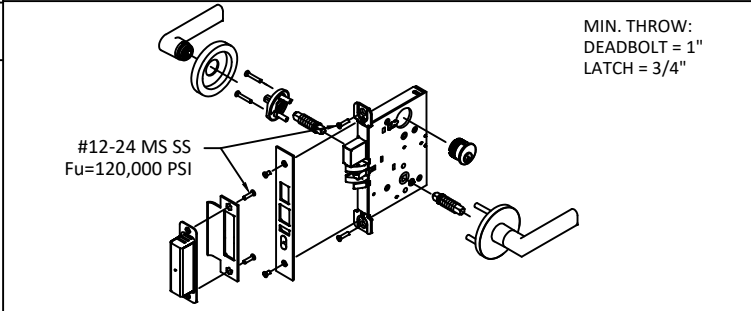


MIN. THROW:
LATCH = 3/4"

SCHLAGE L/LV 9000 & PM SERIES MORTISE LOCKSET WITHOUT DEADBOLT
USED IN DOOR CONFIGURATIONS 14 & 15 (SEE SHT. 6)

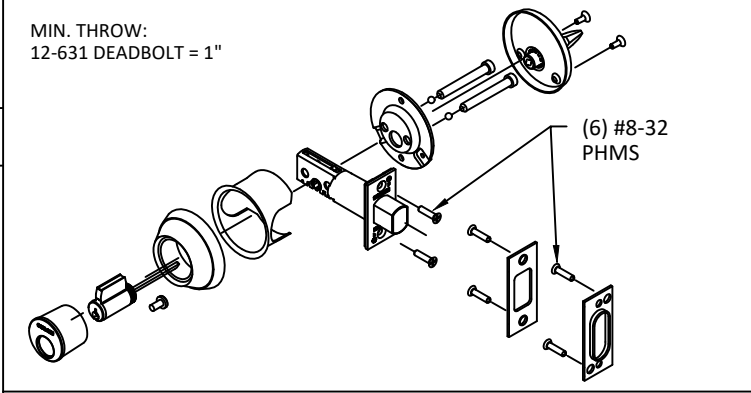


MIN. THROW:
DEADBOLT = 1"
LATCH = 3/4"



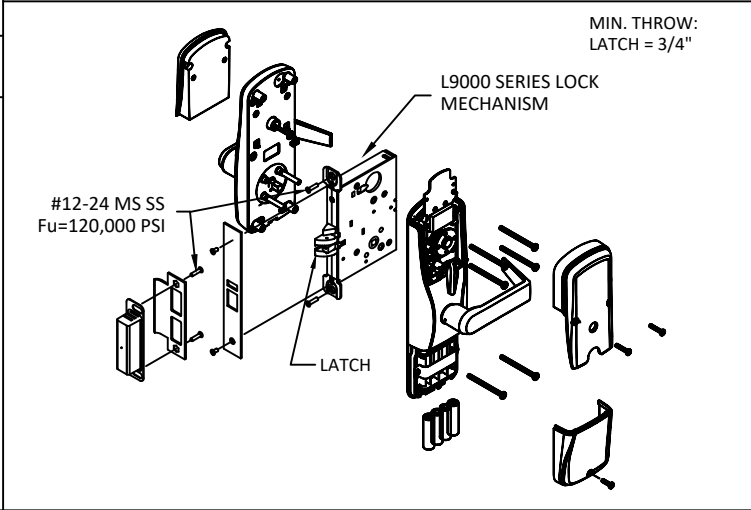
MIN. THROW:
DEADBOLT = 1"
LATCH = 3/4"

FALCON M/MA-SERIES MORTISE LOCKSET WITH DEADBOLT FUNCTION
USED IN DOOR CONFIGURATION 1 (SEE SHT. 3)



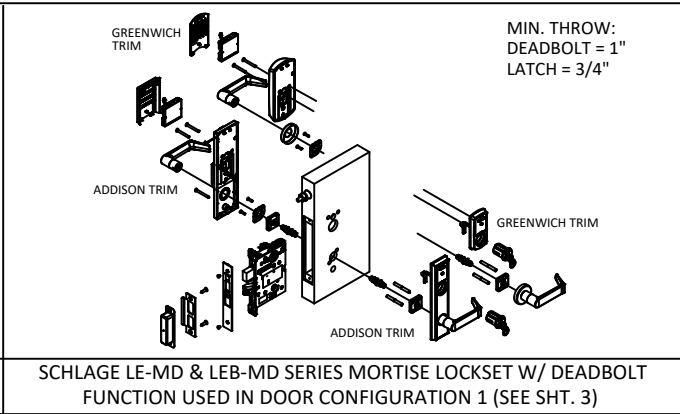
MIN. THROW:
12-631 DEADBOLT = 1"

SCHLAGE B600/700/800 CYLINDRICAL DEADLOCK
USED IN DOOR CONFIGURATION 12 (SEE SHT. 3)

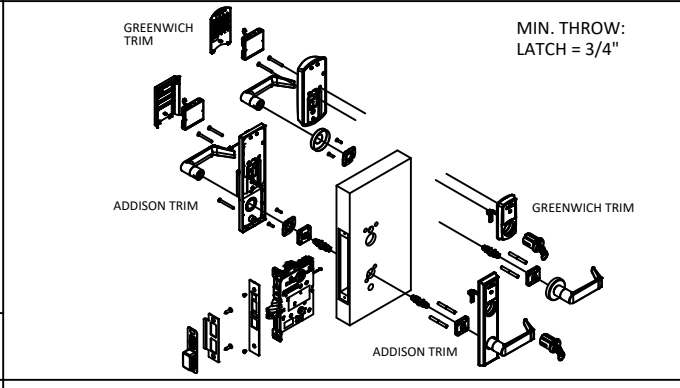


MIN. THROW:
LATCH = 3/4"

SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCKSET WITHOUT DEADBOLT
USED IN DOOR CONFIGURATIONS 14 & 15 (SEE SHT. 6)

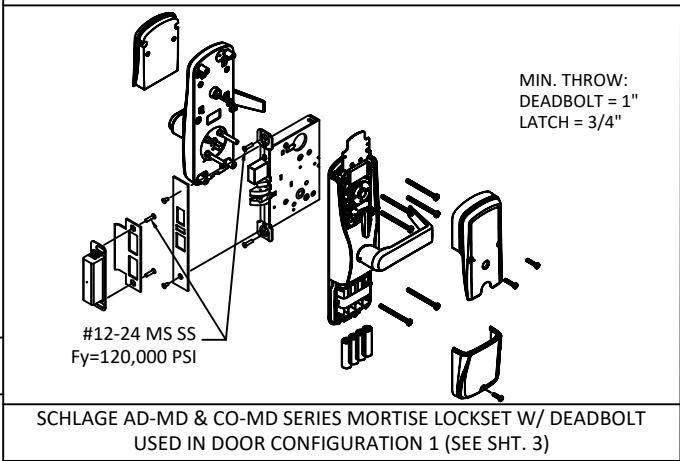


MIN. THROW:
DEADBOLT = 1"
LATCH = 3/4"



MIN. THROW:
LATCH = 3/4"

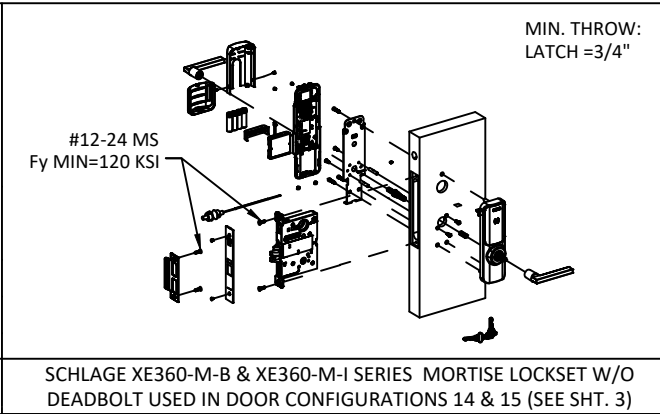
SCHLAGE LE-MS, LEB-MS, LE-MB, LEB-MB, SERIES MORTISE LOCKSET W/O
DEADBOLT USED IN DOOR CONFIGURATIONS 14 & 15 (SEE SHT. 6)



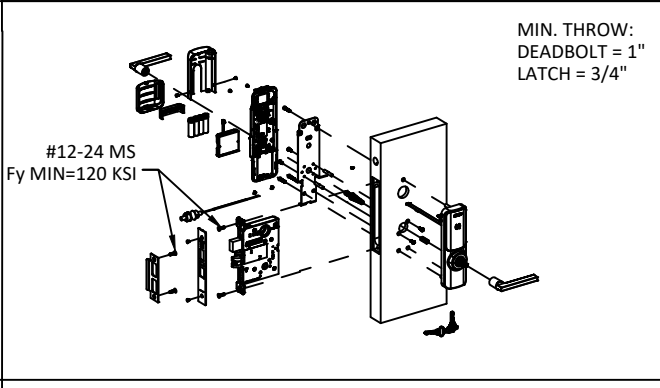
MIN. THROW:
DEADBOLT = 1"
LATCH = 3/4"

SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET W/ DEADBOLT
USED IN DOOR CONFIGURATION 1 (SEE SHT. 3)

NOTE:
1. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE.
INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE
CORRESPONDING AUTHORITY. FIRE RATING NOT PART OF THIS APPROVAL, CONSULT
MANUFACTURER FOR APPROVED CONFIGURATIONS.

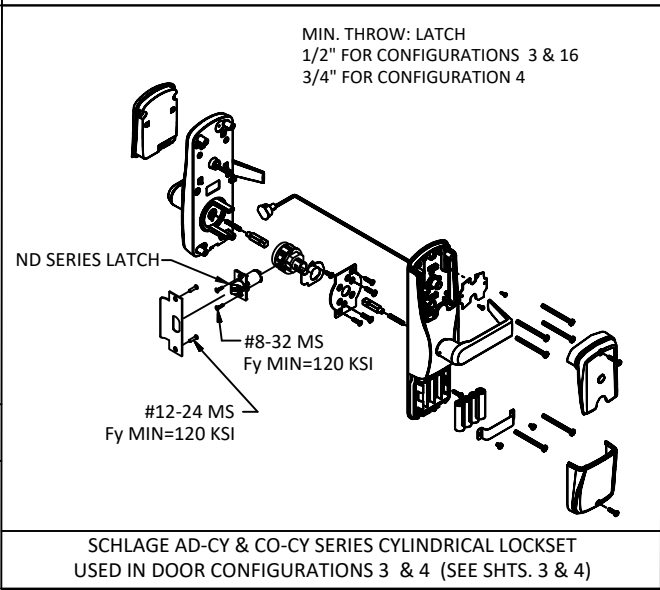


MIN. THROW:
LATCH = 3/4"



MIN. THROW:
DEADBOLT = 1"
LATCH = 3/4"

SCHLAGE XE360-M-D SERIES MORTISE LOCKSET W/ DEADBOLT USED
IN DOOR CONFIGURATIONS 1 (SEE SHT. 3)



MIN. THROW: LATCH
1/2" FOR CONFIGURATIONS 3 & 16
3/4" FOR CONFIGURATION 4

SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL LOCKSET
USED IN DOOR CONFIGURATIONS 3 & 4 (SEE SHTS. 3 & 4)



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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

LOCKING HARDWARE CONT.

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

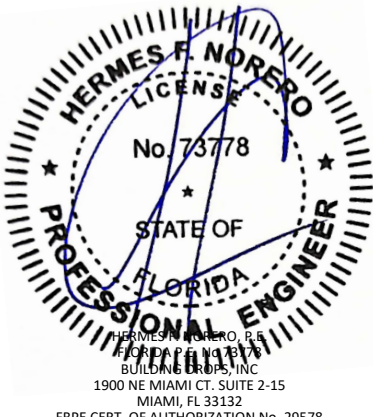
FAX: (954)744-4738

WEB: www.buildingdrops.com



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HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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HFN

SCALE: NTS

DWG. #: IRFS07

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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS:
OPENING DIMENSIONS & BOM

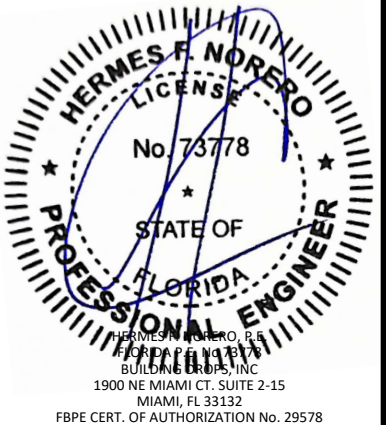
PREPARED BY: BUILDING DROPS, INC.

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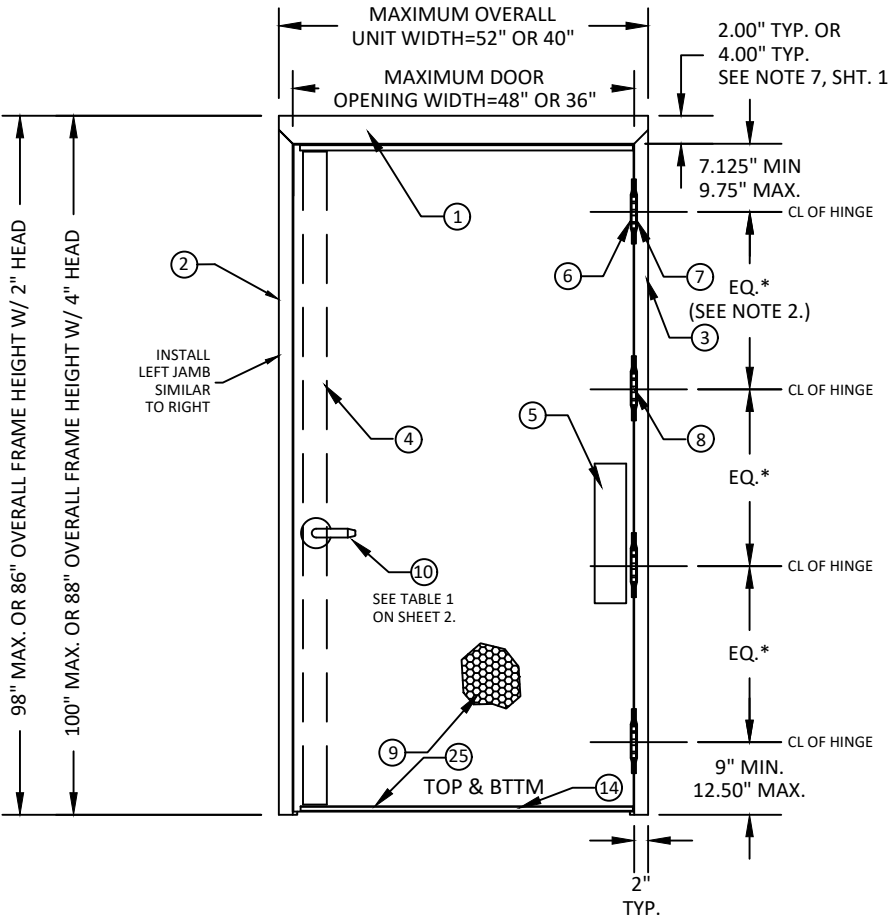
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DWG. #:	IRFS07
SHEET:	

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OUTSWING SINGLE FLUSH DOOR
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE
(SEE ELEVATIONS SHEET 3-6)



AVAILABLE DOOR PANEL CONFIGURATIONS

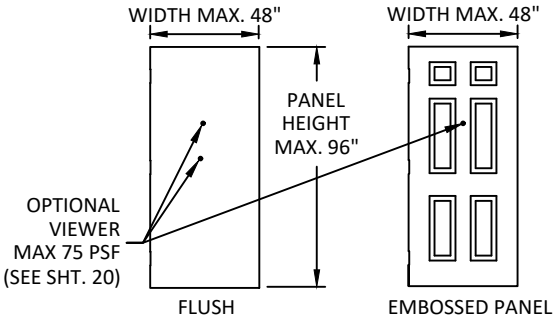
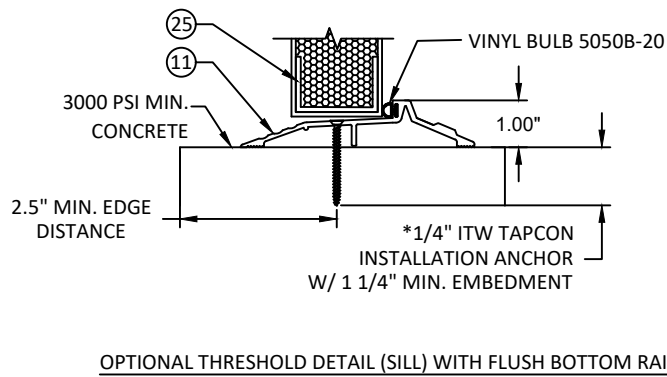
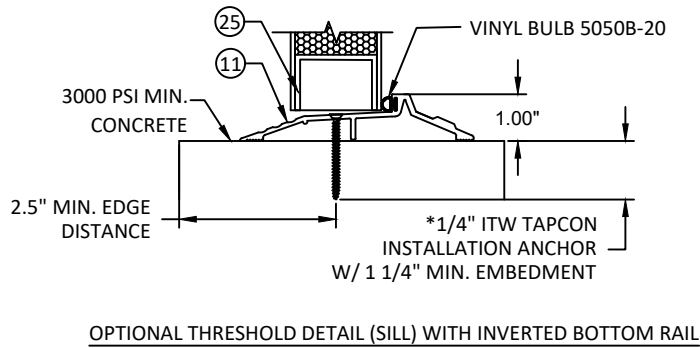
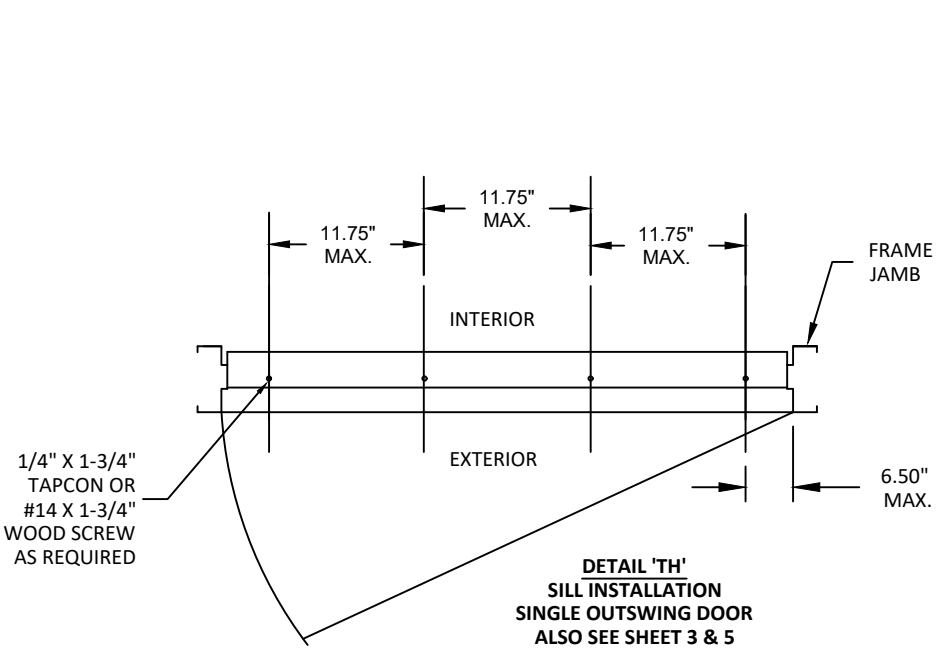
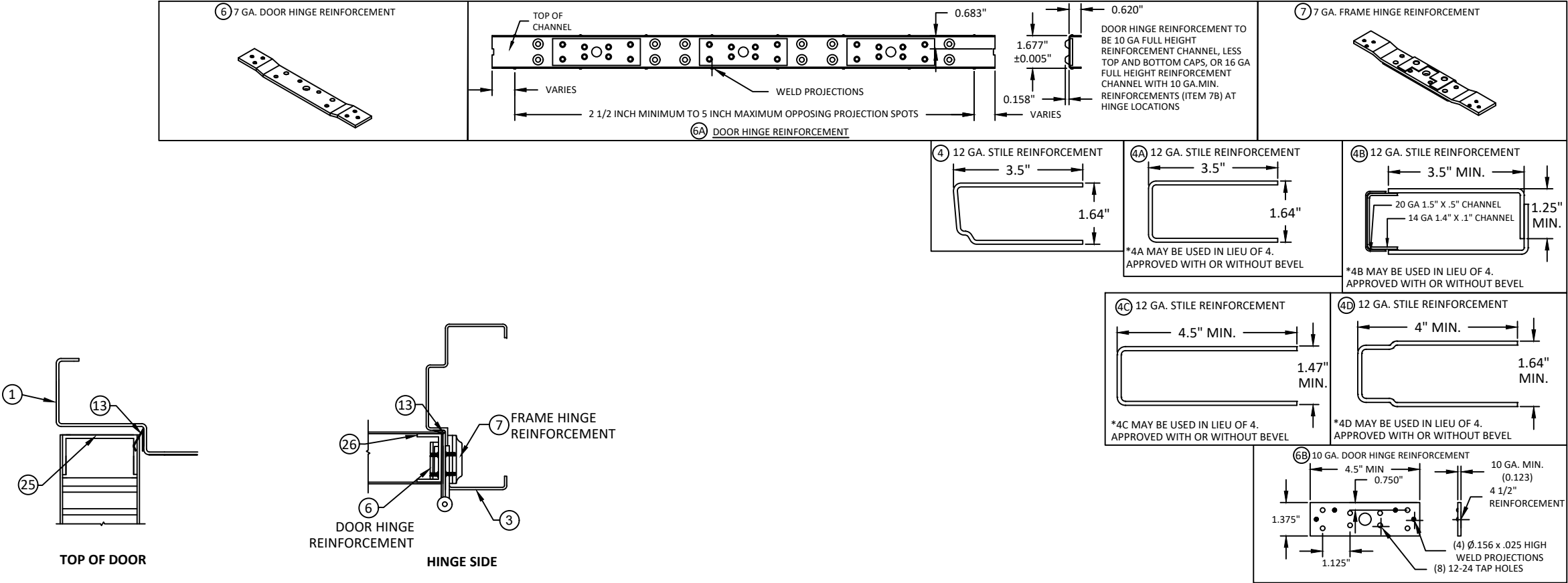


TABLE 8: (FOR OPTION 1 SEE TABLE 2 SHEET 7)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD, SEE SHT. 26	.053" MIN. STL	MAX 52"
2	1	STRIKE JAMB SEE SHT. 26	0.53" MIN. STL	MAX 100"
3	1	HINGE JAMB, SEE SHT. 26	.053" MIN. STL	MAX. 100"
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX
4A-D	1	LOCK SIDE REINFORCEMENT CHANEL	.093" MIN. STL	3.5" X 93.44" MAX
5	AS NEEDED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	20" MAX.
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.
6A	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.053" MIN. STL	1.63" X FULL HEIGHT-END CHANNELS
6B	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.123" MIN. STL	1.375" X 4.5" MIN.
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.187" MIN.
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 20)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHEET 20)	.075" MIN.STL / .110 ALUM.	MAX. 95"
9	1	CORE MATERIAL:		
		D) HONEYCOMB	C) STEEL STIFFENED	SEE SHT. 10
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE		
		E) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE - LOCKSET	SEE SHT. 2 TABLE 1	
11	1	THRESHOLD SILL W/BUMPER GASKET (SHTS. 18 & 19)		5.0" X 0.5" X 96" MAX
		11A) 566 ZERO WATER RATED, SHT. 18, NON WATER SHT. 18 & 19	.125" ALUM. 6063 T5	5.0" X 0.5" X 48" MAX
		11B) 950A NGP WATER RATED SHT. 18, NON WATER SHT. 18 & 19	.078" ALUM. 6063 T5	
		11C) 65 ZERO NON WATER RATED SEE SHT. 19	0.125" ALUM. 6063 T5	6.0" X 0.5" X 48" MAX
		11D) 568 ZERO NON WATER RATED SEE SHT. 19	0.125" ALUM. 6063 T5	
12	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 27-31	-
13	SEE SHTS. 18-19	13A) PS074 DOOR SEAL	TPE	MAX. 20"
		13B) 188S, 13C) 117S, 13D)8144S, 13E)8150S, DOOR SEAL ZERO	SILICONE	
14	1	FAS-SEAL DOOR SWEEP SEE SHTS. 18-19	TPE	MAX. 48"
15	-	-	-	-
16	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 18-19	-
17	1	DOOR SLAB (16 OR 14 GA)	SEE SHT. 26	4' X 8' MAX.
18	-	-	-	-
19	2	202N DOOR SWEEP BY NGP, SHT. 18 & 19	TPE	MAX 48"
20	1	20A) 139 DOOR SWEEP BY ZERO INT'L	SEE SHT. 18	MAX 48"
		20B) 328 DOOR SWEEP BY ZERO INT'L		
		20C) 200N DOOR SWEEP BY NGP		
21	3	21A) 475 ADJUSTABLE SEAL BY ZERO INT'L	TPE, SEE SHT. 18	MAX 104"
	1	21B) 170N ADJUSTABLE SEAL BY NGP		
22	1	22A) 142 RAIN DRIP BY ZERO INT'L	SEE SHTS. 18	MAX 52"
		22B) 11 RAIN DRIP BY ZERO INT'L		
		22C) 16A RAIN DRIP BY NGP		
23	-	-	-	-
24	1	IVES 698/U698 DOOR VIEWER	BRASS	-
25	2	END CHANNEL 16 GA - INVERTED OR FLUSH	.053" MIN. STL	.62" X 1.677"
26	2	EDGE CHANNEL REINFORCEMENT (16 GA)	.053" MIN. STL	.62" X 1.677"



*NOTE: 803V THRESHOLD MAY BE INSTALLED WITH #12 WOOD SCREW TYPE INSTALLATION ANCHORS WHEN INTO 2X WOOD BUCK SUBSTRATES (MIN. SG= 0.55) WITH MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE.



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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS:
SILL & REINFORCEMENT DETAILS

PREPARED BY:

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MIAMI, FL 33132

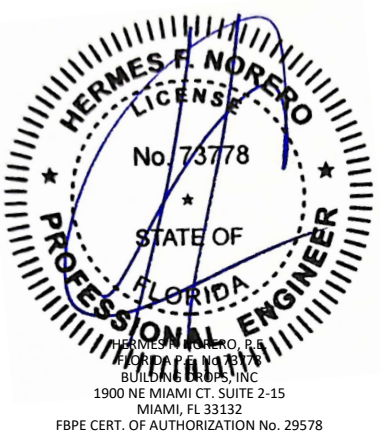
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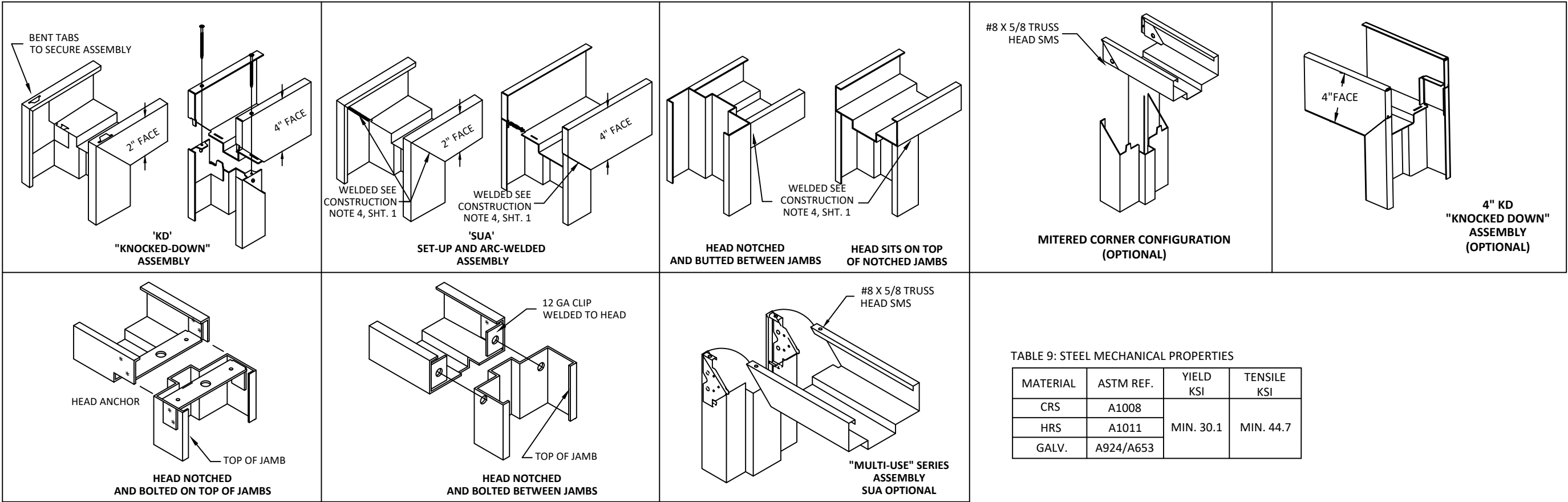


TABLE 9: STEEL MECHANICAL PROPERTIES

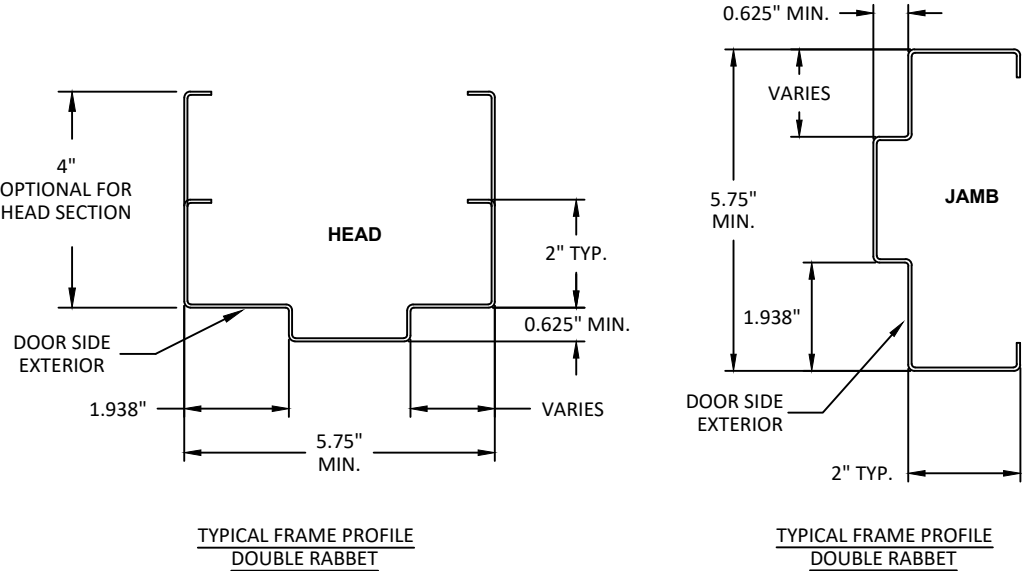
MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV.	A924/A653		

TABLE 10: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 10	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	4'-0"	8'-0"	CRS. GALV.	16/.053"
DE		4'-0"	8'-0"	CRS. GALV.	16/.053" 14/.067"

TABLE 11: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME/SE	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	12/.093"



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TITLE:
OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

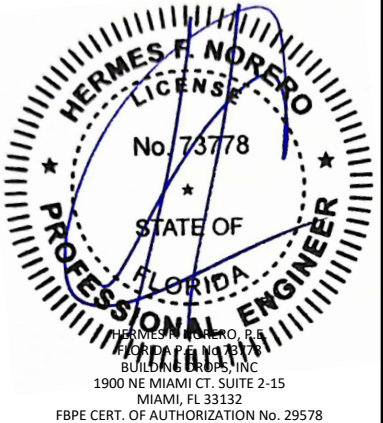
REPUBLIC DOORS:
FRAME DETAILS & CORNER CONSTRUCTION

PREPARED BY:
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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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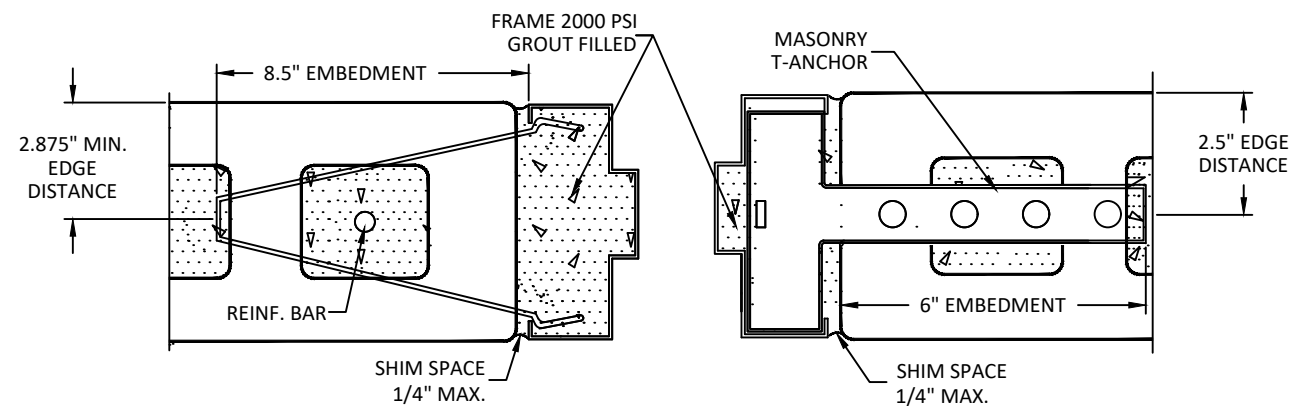
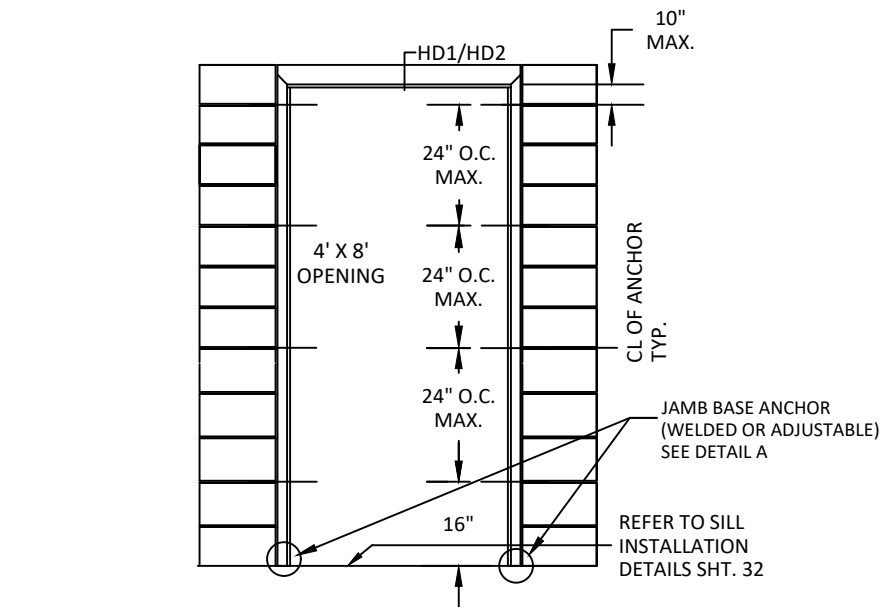
DWG. #: IRFS07

SHEET: 26

OF 32

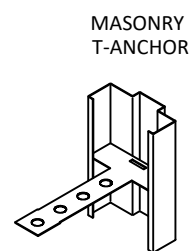
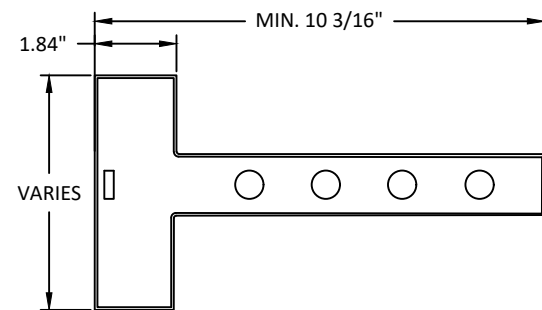
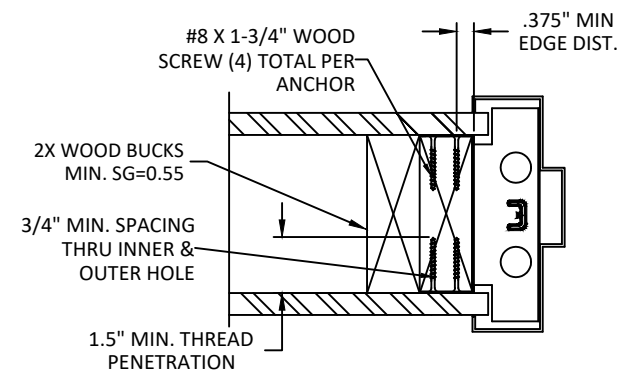
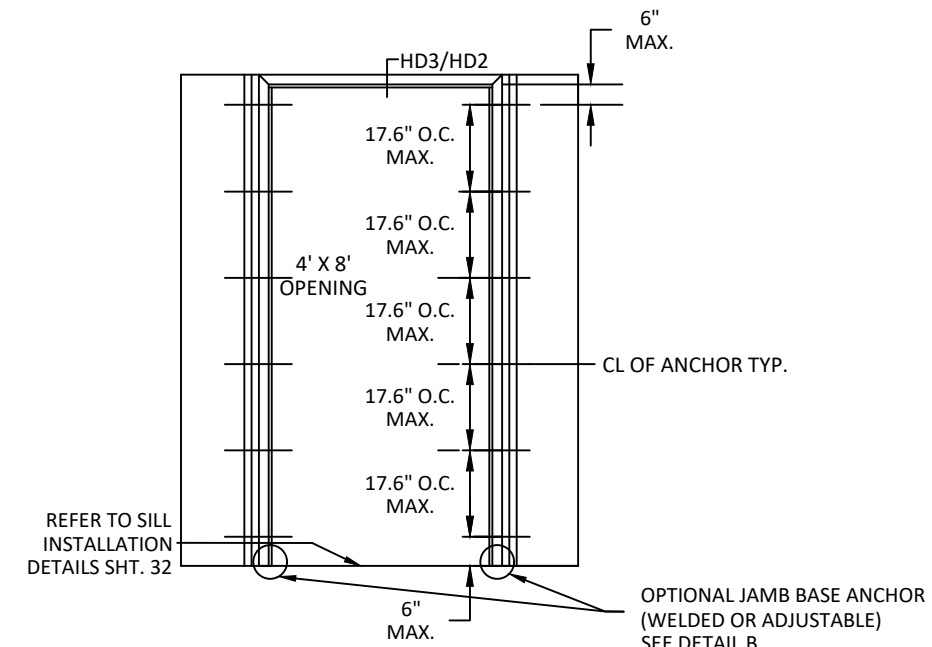
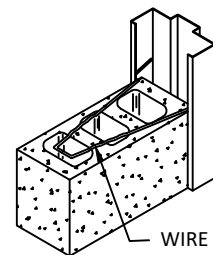
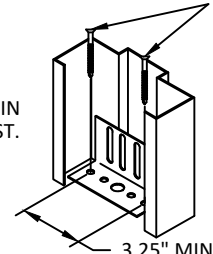
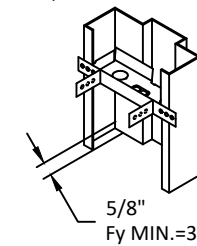
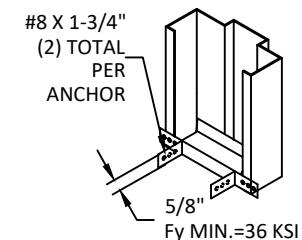
1

WIRE OR T MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



2

WOOD STUD ANCHOR

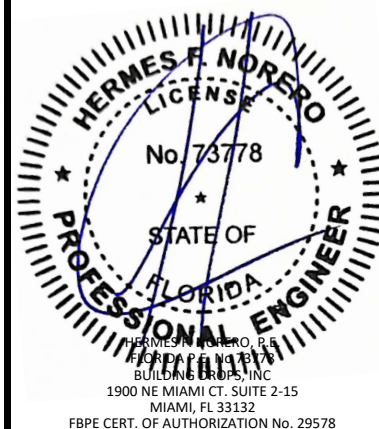
SEE PAGE 12 FOR OPTION 1
ANCHOR DETAILSMASONRY BLOCK WALLS
CMU (C-90) 2000 PSI
GROUT FILLEDWIRE ANCHOR $\varnothing 3/16"$
BRIGHT BASIC WIRE 5.19"
X 9.56"
WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI Fy
MIN.=36 KSIDETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)2 1/2 MIN
EDGE DIST.JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
 $\varnothing 0.375"$ WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER BOLT,
DEWALT/POWERS LOK BOLT AS.
HILTI HLC-FPH SLEEVE ANCHOR,
SIMPSON STRONG TIE
SLEEVE-ALL OR 3/8" LAG BOLT
INTO (2) 2X WOOD SILL (SG=0.55)WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)*WOOD STUD WALLS
SEE NOTE 12, SHT. 15/8"
Fy MIN.=36 KSIDETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)#8 X 1-3/4"
(2) TOTAL
PER
ANCHOR5/8"
Fy MIN.=36 KSI

NOTES:

- (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
- NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
- SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
- INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
- THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

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CARMEL, IN 46032
PH: (317) 715-4073TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)REPUBLIC DOORS: ANCHORS - WIRE OR
T MASONRY ANCHOR & WOOD STUDPREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.

FL12400

DATE: 05.04.22

DWG. BY:
CPACHK. BY:
HFN

SCALE: NTS

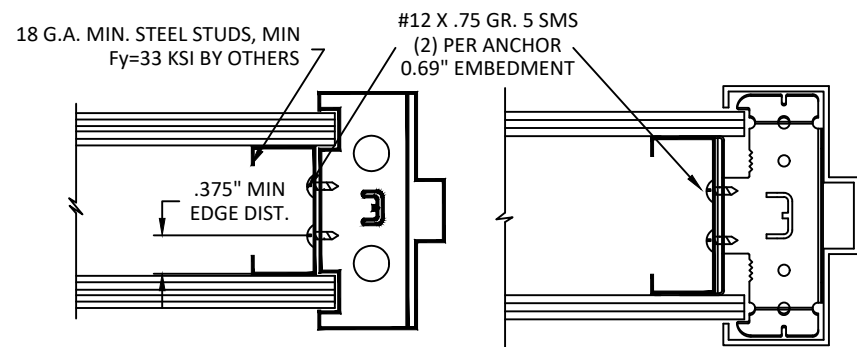
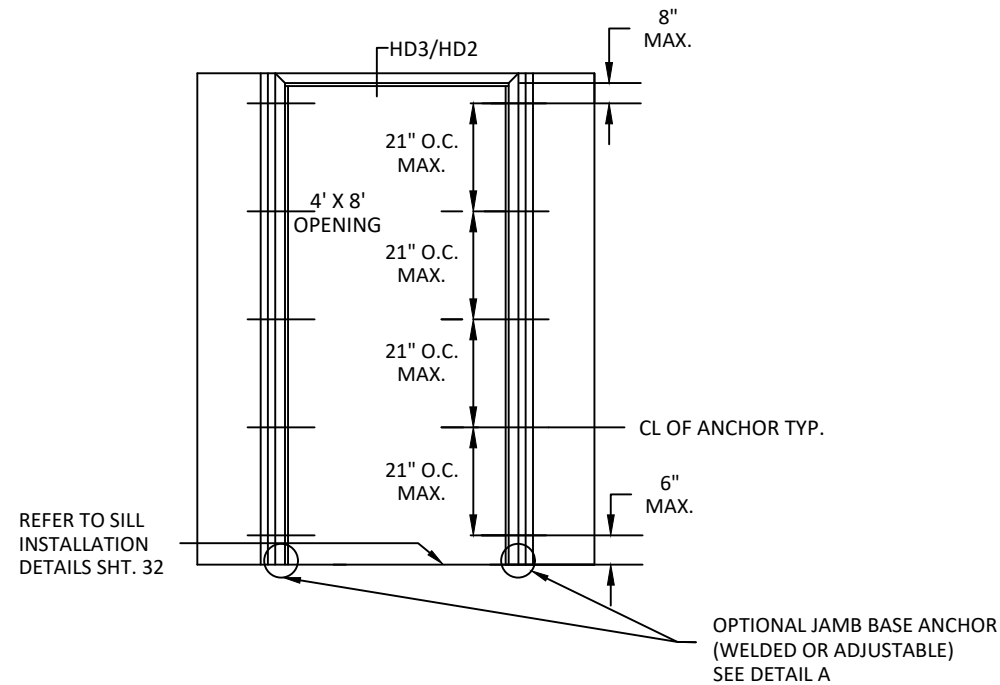
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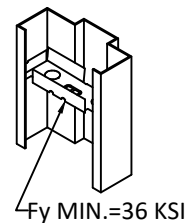
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OF 32

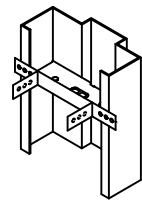
3 STEEL STUD ANCHOR



STEEL STUD ANCHOR WELD-IN OR LOCK-IN

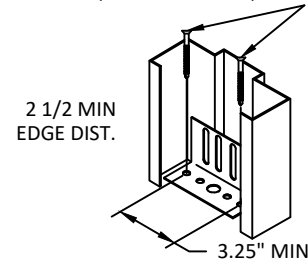


UNIVERSAL ANCHOR WELD-IN OR LOCK-IN



*STEEL STUD WALLS SEE NOTE 12, SHT. 1

DETAIL A JAMB BASE ANCHOR (INTO CONCRETE)

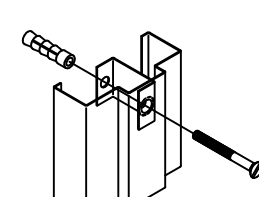
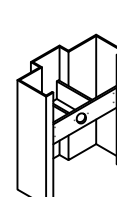
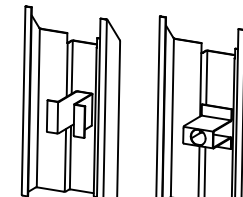
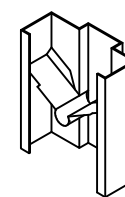
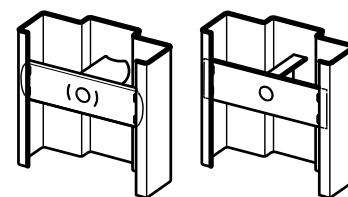
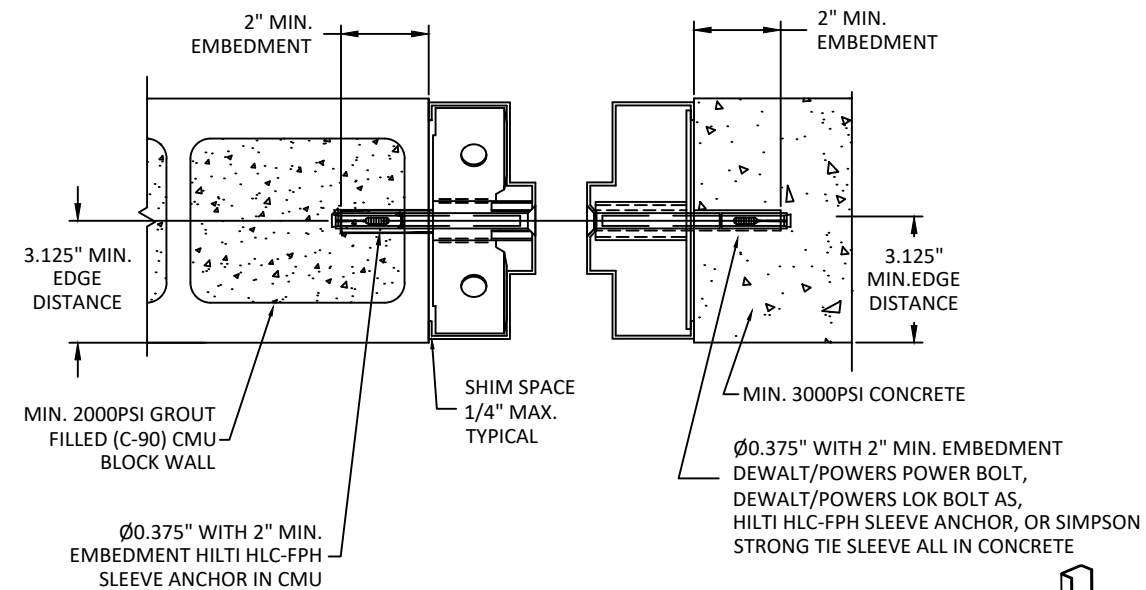
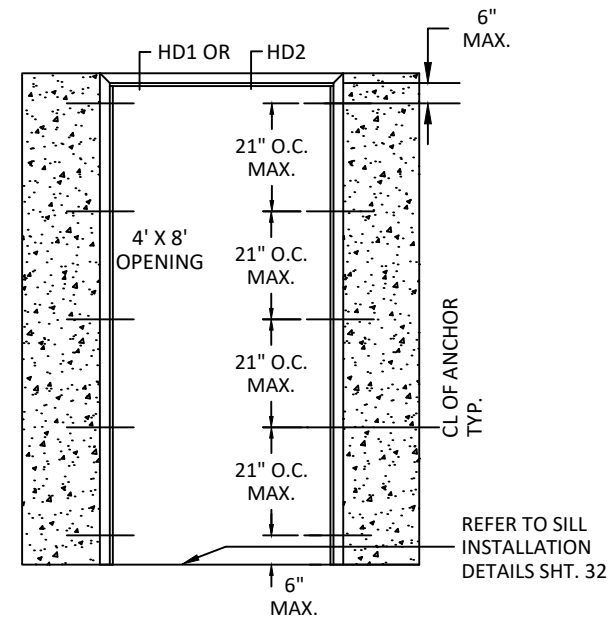


JAMB BASE ANCHOR INTO CONCRETE (3 KSI MIN.) Ø0.375" WITH 2" MIN. EMBEDMENT DEWALT/POWERS POWER BOLT, DEWALT/POWERS LOK BOLT AS, HILTI HLC-FPH SLEEVE ANCHOR, SIMPSON STRONG TIE SLEEVE-ALL OR 3/8" LAG BOLT INTO (2) 2X WOOD SILL (SG=0.55)

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

4 PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU

SEE PAGE 13 FOR OPTION 1 ANCHOR DETAILS



TUBE & PLATE WELD-IN EMA ANCHOR

ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH COMMERCIAL STEEL DOORS (HVHZ)(IMPACT)
REPUBLIC DOORS: ANCHORS - STEEL STUD & EMA INTO CONCRETE WALL OR CMU
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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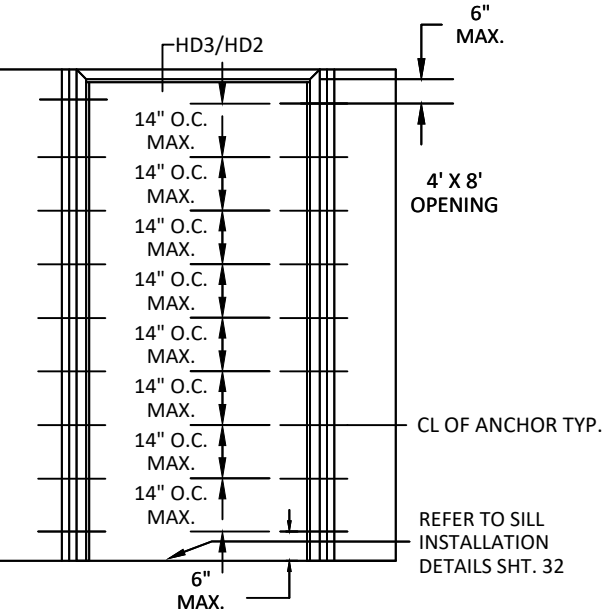
HERMES F. NORERO
LICENSE
No. 73778
STATE OF FLORIDA
PROFESSIONAL ENGINEER
HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE:	05.04.22
DWG. BY:	CPA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	IRFS07
SHEET:	28

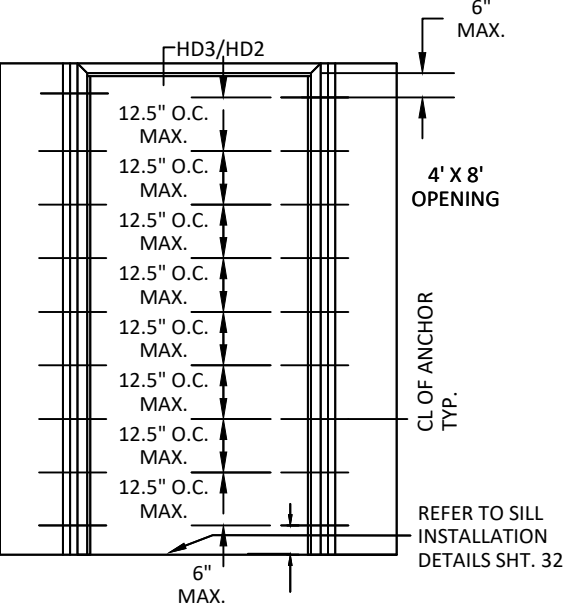
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PREPARED OPENING ANCHOR (POA)
WITH LAG BOLT INTO WOOD STUD WALL
UP TO 70 PSF



5B

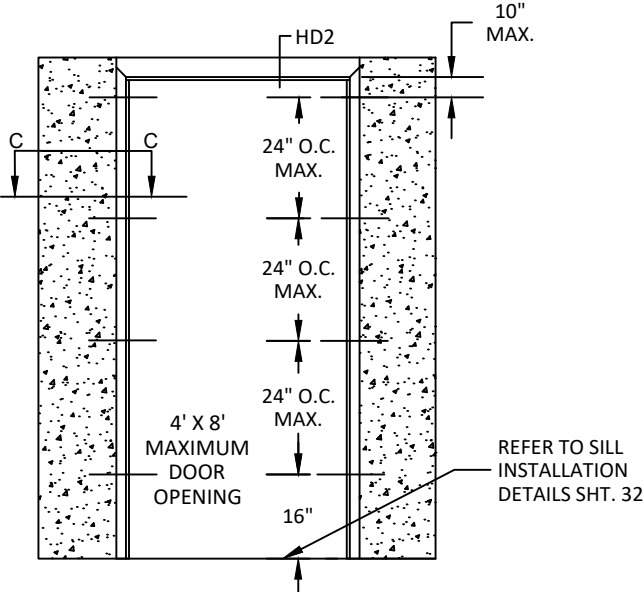
PREPARED OPENING ANCHOR (POA)
WITH LAG BOLT INTO WOOD STUD WALL
UP TO 100 PSF



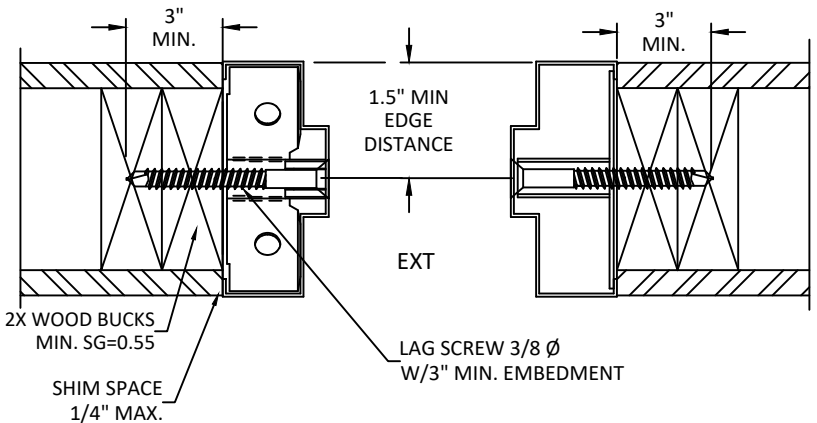
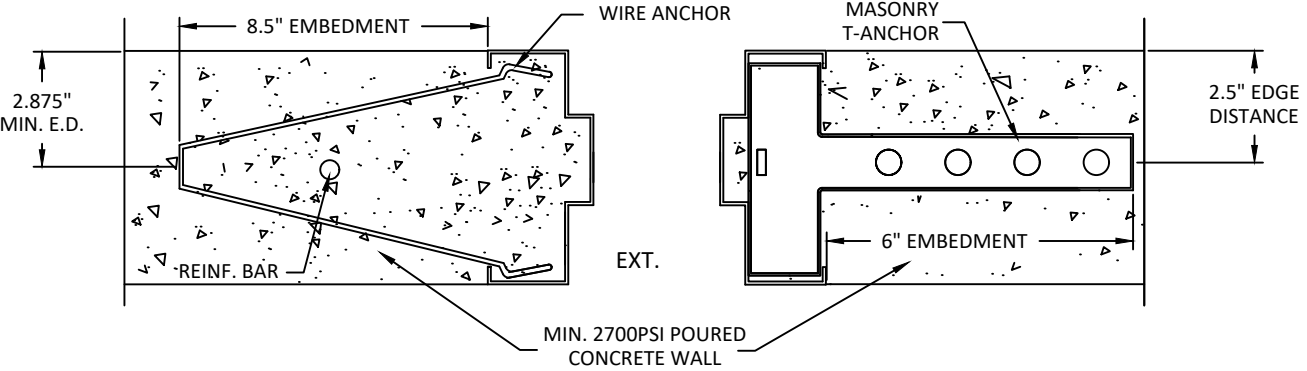
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POURED CONCRETE
TILT UP WALL

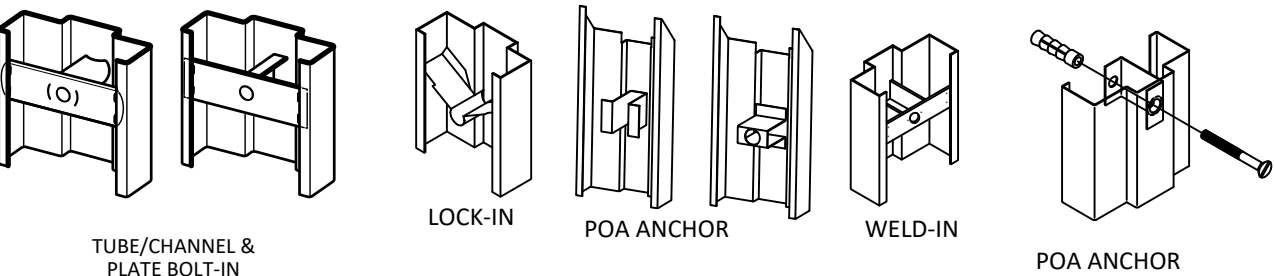
SEE PAGE 14 FOR OPTION
1 ANCHOR DETAILS



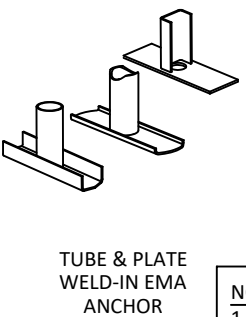
CROSS-SECTION C - C
POURED CONCRETE OPTION



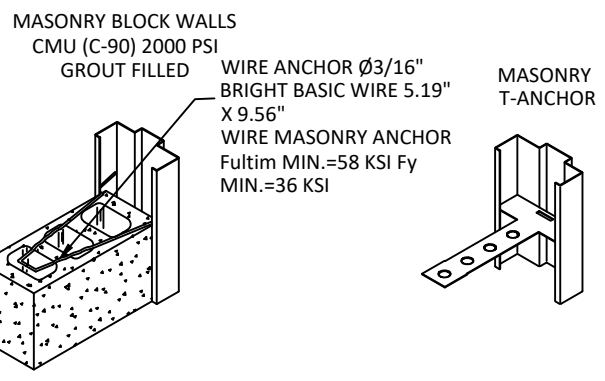
*WOOD STUD WALLS
SEE NOTE 12, SHT.1



NOTES:
1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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3. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR SILICONE CAULK
4. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR SILICONE CAULK FULL LENGTH OF SILL
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NOTE:
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.




ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

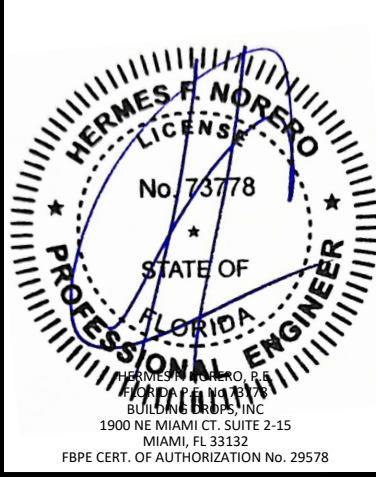
TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
REPUBLIC DOORS: ANCHORS - EMA I
NTO CONCRETE OR CMU
& EMA W/ LAG BOLT IN WOOD STUD WALL

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
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HERMES F. NORERO, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: 05.04.22

DWG. BY: CPA
CHK. BY: HFN

SCALE: NTS

DWG. #: IRFS07

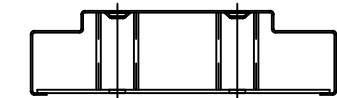
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OF 32

SEE PAGE 15 FOR OPTION 1 ANCHOR DETAILS

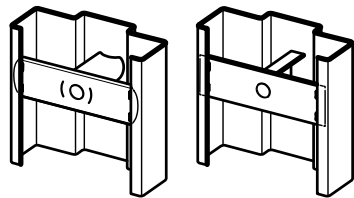


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

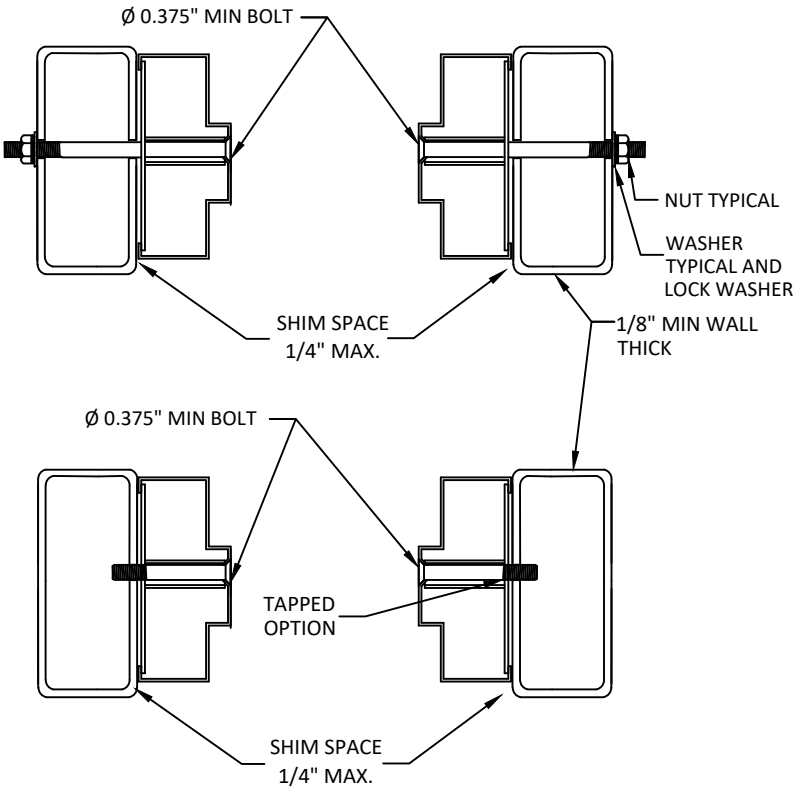
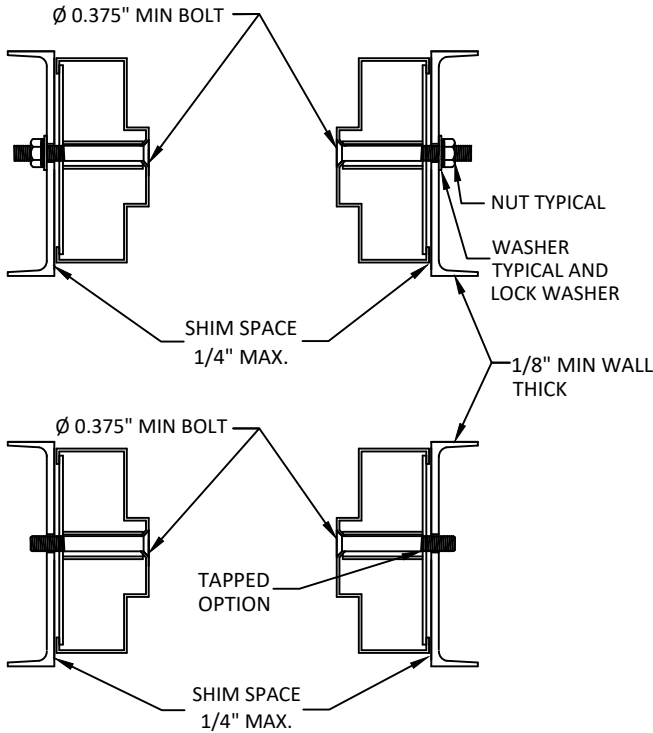
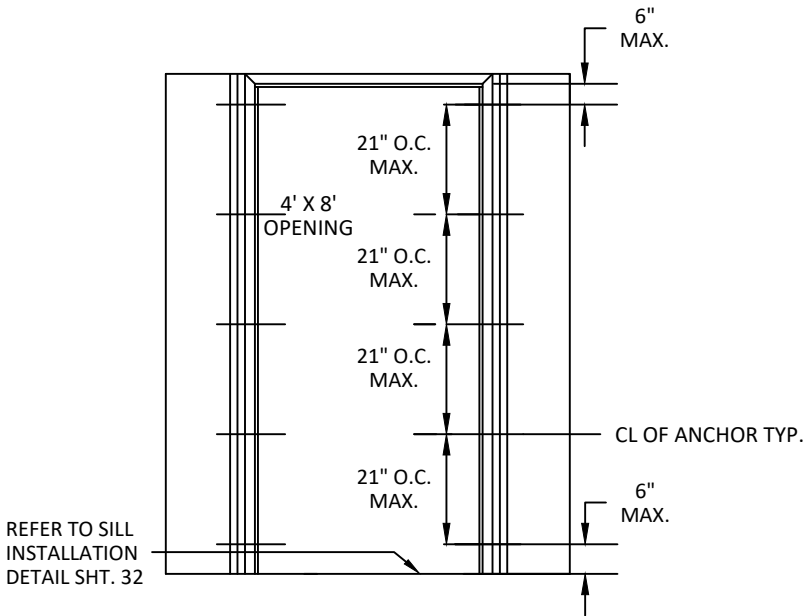
TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
REPUBLIC DOORS: ANCHORS - FRAMES
BOLTED TO BUILDING STRUCTURE
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS

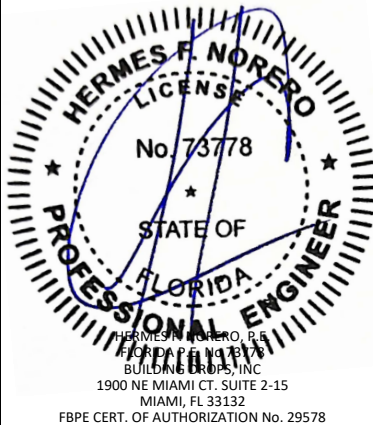


TUBE/CHANNEL &
PLATE BOLT-IN



NOTE:
1. 3/8" BOLTS AND NUTS TO BE MIN. SAE GRADE 2 OR
EQUIVALENT.

NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD
WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR
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SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY
THE LOCAL AHJ.



FL12400		
DATE: 05.04.22		
DWG. BY:	CPA	CHK. BY: HFN
SCALE: NTS		
DWG. #: IRFS07		
SHEET:		
30		
OF 32		

8

WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE

SEE PAGE 16 FOR OPTION
1 ANCHOR DETAILS



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
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CHK. BY: HFN

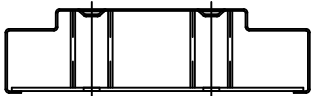
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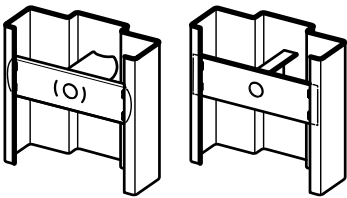
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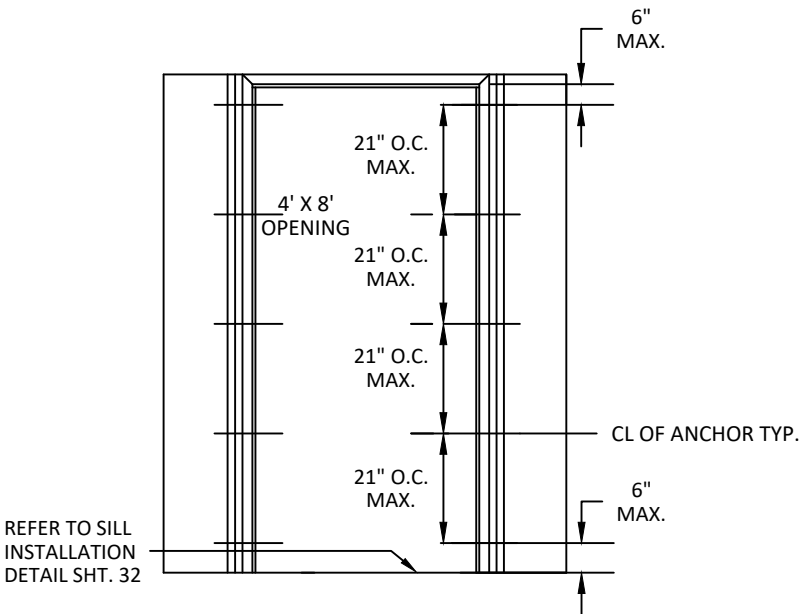
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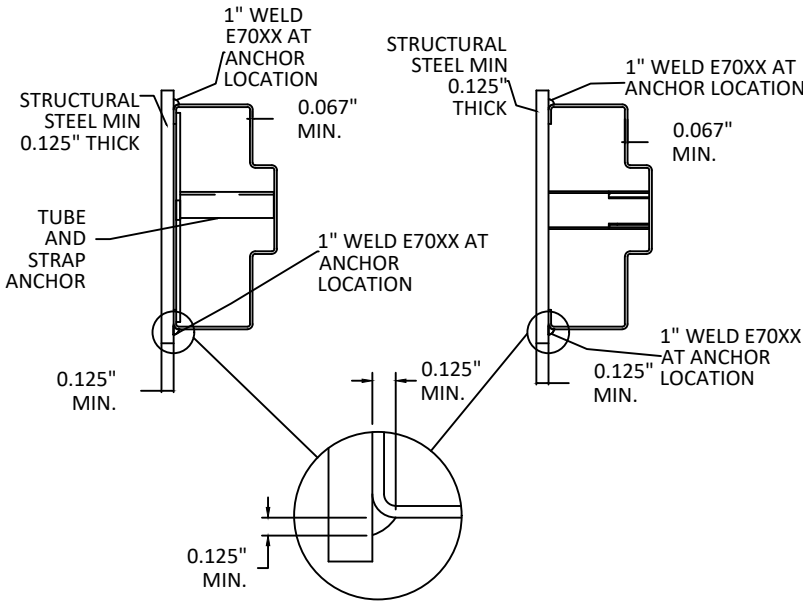
9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN

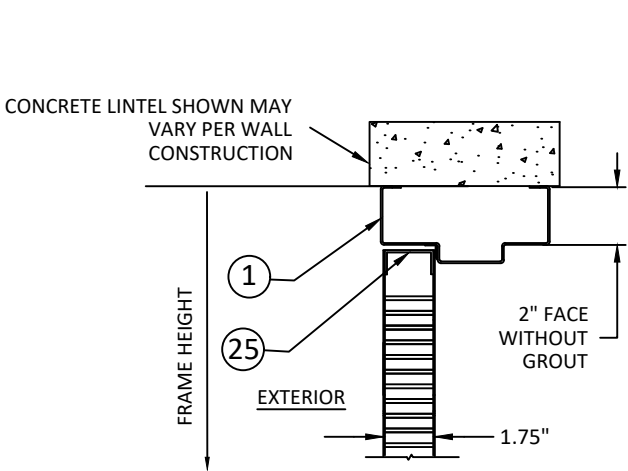


REFER TO SILL
INSTALLATION
DETAIL SHT. 32

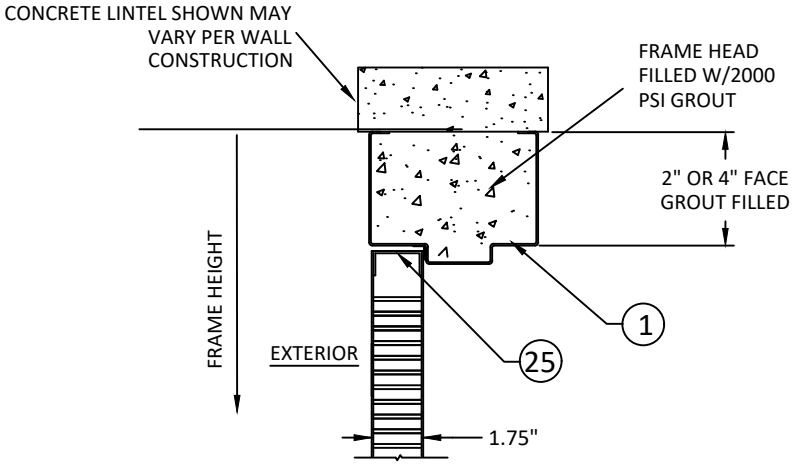


NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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5.THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS. IF INSTALLATION DEVIATES FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR REVIEW AND APPROVAL BY THE LOCAL AHJ.

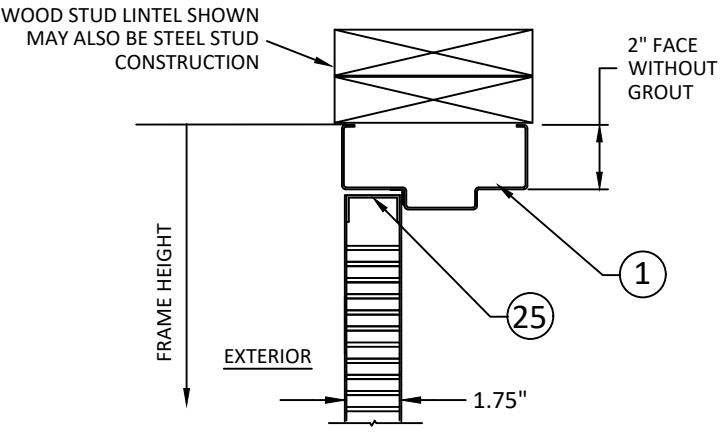
SEE PAGE 17 FOR OPTION
1 ANCHOR DETAILS



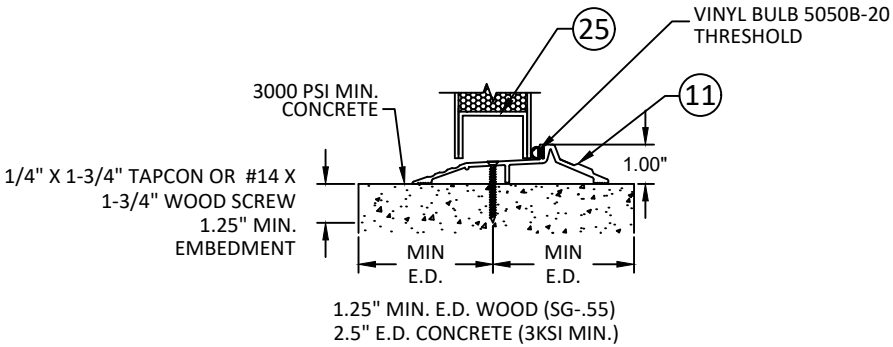
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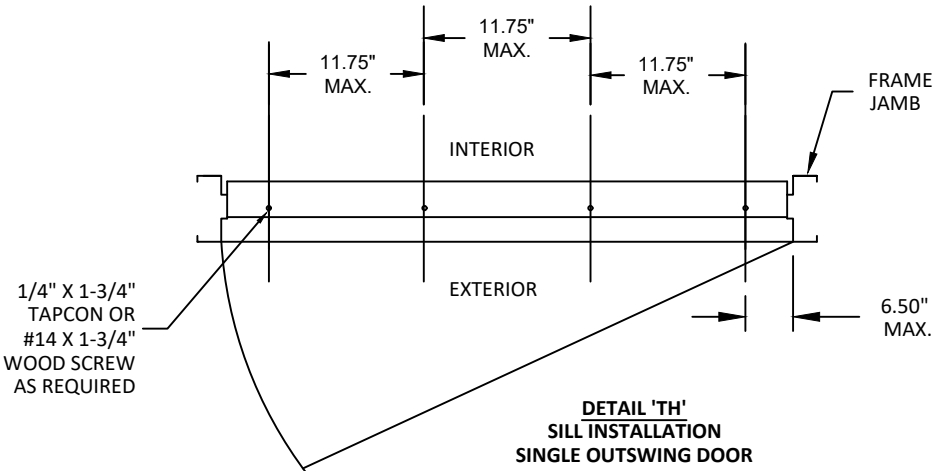
HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



SILL DETAIL 'TH' (SIDEVIEW)
WOOD OR CONCRETE SILL
E.D. - EDGE DISTANCE



NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 416#/FT. FOR ASSEMBLIES RATED @100 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING SINGLE FLUSH
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS:
FRAME HEAD & SILL DETAILS

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132

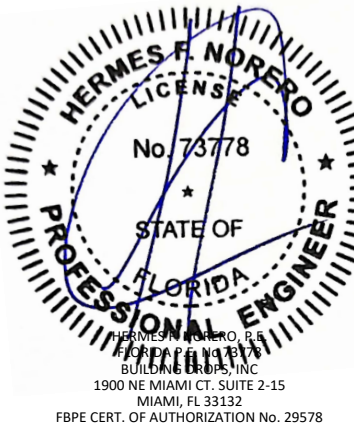
PH: (954)399-8478
FAX: (954)744-4738

WEB: www.buildingdrops.com



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LOCK UPDATE	JA	09.09.24
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FL12400

DATE: 05.04.22

DWG. BY: CPA

CHK. BY: HFN

SCALE: NTS

DWG. #: IRFS07

SHEET:

32

OF 32