

ALLEGION - SCHLAGE LOCK COMPANY, LLC.
*OUTSWING DOUBLE GLAZED COMMERCIAL STEEL DOOR
(HVHZ)(IMPACT)*

GENERAL NOTES:

1. 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.
2. THE DOORS ARE LARGE AND SMALL MISSILE IMPACT RATED.

NOTES:

1. ALL DIMENSIONS SHOWN MAX. AND TYP. FOR ALL DOOR/FRAME MODELS UNLESS OTHER INDICATED.
2. ANCHOR REQUIREMENTS: SEE SHEET 13 - 18 & 32 - 37 FOR APPROVED ANCHORS AND INSTALLATION.
3. 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 RABBIT 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.
4. APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 23
5. SEE SHEETS 3-6, 29, AND 31 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
6. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
7. HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.
8. APPLY CAULK AS NEEDED
9. WHEN WATER INFILTRATION RATING IS REQUIRED, INSTALL GASKETING PER SHEETS 19 & 20.
10. WHEN WATER INFILTRATION RATING IS NOT REQUIRED, INSTALL GASKETING PER SHEETS 21 & 22.
11. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI
POURED CONCRETE TILT UP WALLS.
12. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE
APPROPRIATE LOAD DESIGN.
13. 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.
14. 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.
15. GASKETING QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHEETS 20-22 FOR DETAILS.
16. INSTALL CUTOUT REINFORCEMENT CHANNELS (ITEM #20) AROUND EACH LITE CUTOUT
17. SEE SHEET 12 AND 12A FOR GLAZING DETAILS.
18. WHEN USING CONTINUOUS HINGE THE MINIMUM DISTANCE FROM DOOR EDGE TO EXPOSED GLASS IS 6-1/4" AT
STILES AND 7-1/2" AT MIDRAILS.

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	+60/-60	+60/-60	
2	+50/-50	+50/-50	
3A	+75/-75	+90/-90	
3B	+75/-75	+90/-90	
3AA	+70/-70	+70/-70	
3BB	+70/-70	+70/-70	
4	+60/-60	+60/-60	
5	+60/-60	+60/-60	
6	+60/-60	+60/-60	
7	+60/-60	+60/-60	
8	+50/-50	+50/-50	
9	+50/-50	+50/-50	
10	+50/-50	+50/-50	
11	+50/-50	+50/-50	

CONSTRUCTION NOTES:

1. DOOR CONSTRUCTION
 - 1.1. NOMINAL DOOR THICKNESS - 1 3/4"
 - 1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS
2. FRAME CONSTRUCTION
 - 2.1. MINIMUM JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 - 2.2. STEELCRAFT FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 4 , SHT. 10).
REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 13, SHT. 31).
3. FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 5, SHT. 10. FOR REPUBLIC DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 12, SHT. 31.
4. FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 10 & 31 FOR DETAIL.

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GENERAL NOTES & DESIGN PRESSURE TABLE

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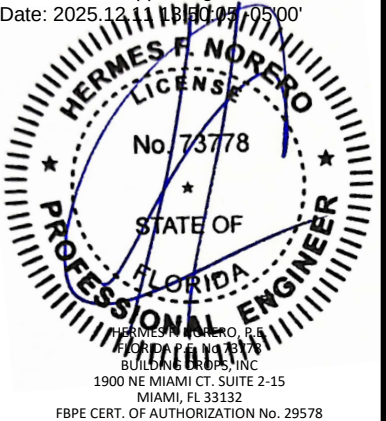
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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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TABLE 1: DOOR CONFIGURATIONS AND LOCKING HARDWARE

DOOR CONFIGURATION	MAXIMUM DESIGN PRESSURE, PSF		MAXIMUM DOOR OPENING SIZE, IN		MAXIMUM EXPOSED GLAZING SIZE (DLO)*, IN.		LOCKING HARDWARE DESCRIPTION				COMMENTS
	POSITIVE	NEGATIVE	WIDTH	HEIGHT	WIDTH	HEIGHT	HARDWARE FAMILY	MODEL/SERIES	STRIKE MODELS	BRAND	
1	60	60	72	84	24	64	RIM EXIT DEVICE	98, 99, 98-F, 99-F	499F	VON DUPRIN	FOR PAIRS USE VON DUPRIN HARDWARE MULLION, SEE SHT. 22
								HH78, HH78-F			
								88-F	468	VON DUPRIN	
2	50	50	96	96	34	74	RIM EXIT DEVICE	98, 99, 98-F, 99-F	499F	VON DUPRIN	FOR PAIRS USE VON DUPRIN HARDWARE MULLION, SEE SHT. 22
								HH78, HH78-F			
								88-F	468	VON DUPRIN	
3A	90 SEE NOTE 2, SHT. 2	90 SEE NOTE 2, SHT. 2	96	96	12	12	RIM EXIT DEVICE	XP98, XP99, XP98-F, XP99-F	909/954	VON DUPRIN	FOR PAIRS USE HH9954 MULLION BY VON DUPRIN, SEE SHT. 22
3B					3 4 5	33 25 20					
3AA	70	70	96	96	12	12	RIM EXIT DEVICE	XP98, XP99, XP98-F, XP99-F	909/954	VON DUPRIN	FOR PAIRS USE 9964 OR KR9964 MULLION BY VON DUPRIN, SEE SHT. 22
3BB					3 4 5	33 25 20					
4	60	60	72	84	24	64	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	-
5	60	60	72	84	24	64	CONCEALED VERTICAL ROD EXIT DEVICE	9847-F, 9947-F, HH9847, HH9947	338 TOP, 304L BOTTOM	VON DUPRIN	HH98/9947 DEVICE HAS A 2-3/4" BACKSET
								HH7847, HH7847-F			HH7847 DEVICE HAS A 2-3/4" BACKSET
								HH7547, HH7547-F	338 TOP, 304L BOTTOM	VON DUPRIN	HH7547 DEVICE HAS A 2-3/4" BACKSET
								3347A-F, 3547A-F, HH3347A, HH3547A			HH34/3547A DEVICE HAS A 2-3/4" BACKSET
								F-25-C	4188 TOP, 2130 BOTTOM	FALCON	-
6	60	60	72	84	24	64	THREE-POINT LATCHING DEVICE	9857, 9957, 9857-F, 9957-F	299F/499F TOP, 499F MIDDLE, 304L BOTTOM	VON DUPRIN	FOR PAIRS USE VON DUPRIN HARDWARE MULLION, SEE SHT. 22
7	60	60	36	84	24	64	THREE-POINT LATCHING DEVICE	9857, 9957, 9857-F, 9957-F	299F/499F TOP/MIDDLE 304L BOTTOM	VON DUPRIN	NOTE 3 , SHT. 2
8	50	50	96	96	34.25	74.5	THREE-POINT LATCHING DEVICE	9857, 9957, 9857-F, 9957-F	299F/499F TOP, 499F MIDDLE, 304L BOTTOM	VON DUPRIN	FOR PAIRS USE VON DUPRIN HARDWARE MULLION, SEE SHT. 22
9	50	50	48	96	34.25	74.5	THREE-POINT LATCHING DEVICE	9857, 9957, 9857-F, 9957-F	299F/499F TOP/MIDDLE 304L BOTTOM	VON DURPIN	NOTE 3 , SHT. 2
10	50	50	96	96	34.25	74.5	MORTISE LOCK	L/LV9000, AD-MS, CO-MS, PM	10-072	SCHLAGE	FUNCTION W/O DEADBOLT, 3/4" MIN. THROW LATCH
								LE-MS, LEB-MS, LE-MB, LEB-MB	10-072	SCHLAGE	
								XE360-M-B & XE360-M-I	10-072	SCHLAGE	
								L/LV9400, AD-MD, CO-MD, PM400	10-072	SCHLAGE	FUNCTION WITH DEADBOLT, 3/4" MIN. THROW LATCH & 1" MIN. THROW BOLT
								LE-MD, LEB-MD	10-072	SCHLAGE	
								XE360-M-D	10-072	SCHLAGE	
11	50	50	96	96	34.25	74.5	CYLINDRICAL LOCK	MA	ANSI	FALCON	FUNCTION WITH OR WITHOUT DEADBOLT, 3/4" MIN. THROW BOLT (IF APPLICABLE)
								D, ND, NDE, NDEB, AD-CY, CO-CY	10-025	SCHLAGE	1/2" MIN. THROW LATCH
								ALX, PC	ANSI	SCHLAGE	1/2" MIN. THROW LATCH (13-247, 14-028)
								T, TM	ANSI	FALCON	1/2" MIN. THROW LATCH (23981145)

NOTES:
1. SEE SHEETS 25-28 FOR LOCKING HARDWARE. FOR DOOR CONFIGURATIONS 10 & 11 INACTIVE LEAF REQUIRES A Z-ASTRAGAL AND IVES SB360 SURFACE BOLT TOP AND BOTTOM, EACH ATTACHED WITH 4X #12-24 OVAL HEAD MACHINE SCREWS AND SEX BOLTS.
2. DOOR CONFIGURATIONS 3A & 3B ARE RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 12A WHEN WATER INFILTRATION REQUIREMENT IS NEEDED. SEE SHEET 19 & 20. 2.1 DOOR CONFIGURATIONS 3A & 3B ARE RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD OPTIONS (12A, 12C & 12D) WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED. SEE SHEET 21
2.2 DOOR CONFIGURATIONS 3A & 3B ARE RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±90 PSF WITH NGP THRESHOLD 12B WHEN WATER INFILTRATION IS NOT NEEDED. SEE SHEET 22
3. DOOR CONFIGURATIONS 7 & 9 ARE FOR USE ON TWO DOORS WITH FIXED HOLLOW METAL MULLION.
4. * DLO - DAYLIGHT OPENING, SAME AS EXPOSED GLASS OR FINISHED OPENING. SEE SHEETS 12 & 12A FOR GLAZING TYPES, DETAILS AND LIMITATIONS



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TABLE 1: DOOR CONFIG. &
LOCKING HARDWARE

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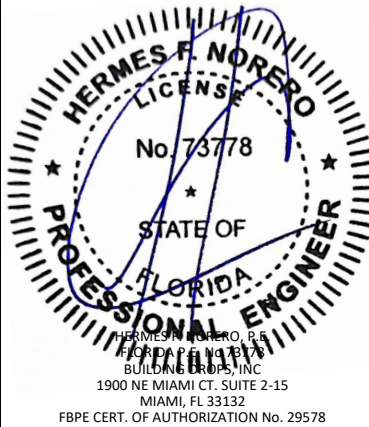
BUILDING DROPS, INC.

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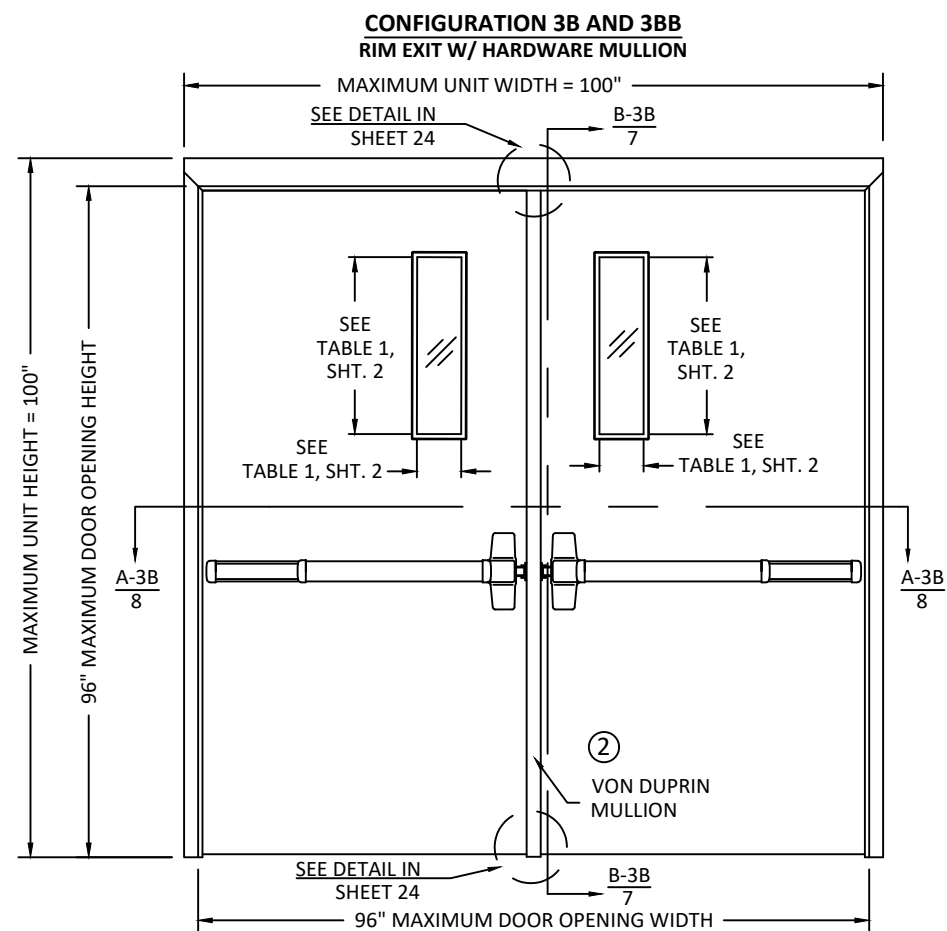
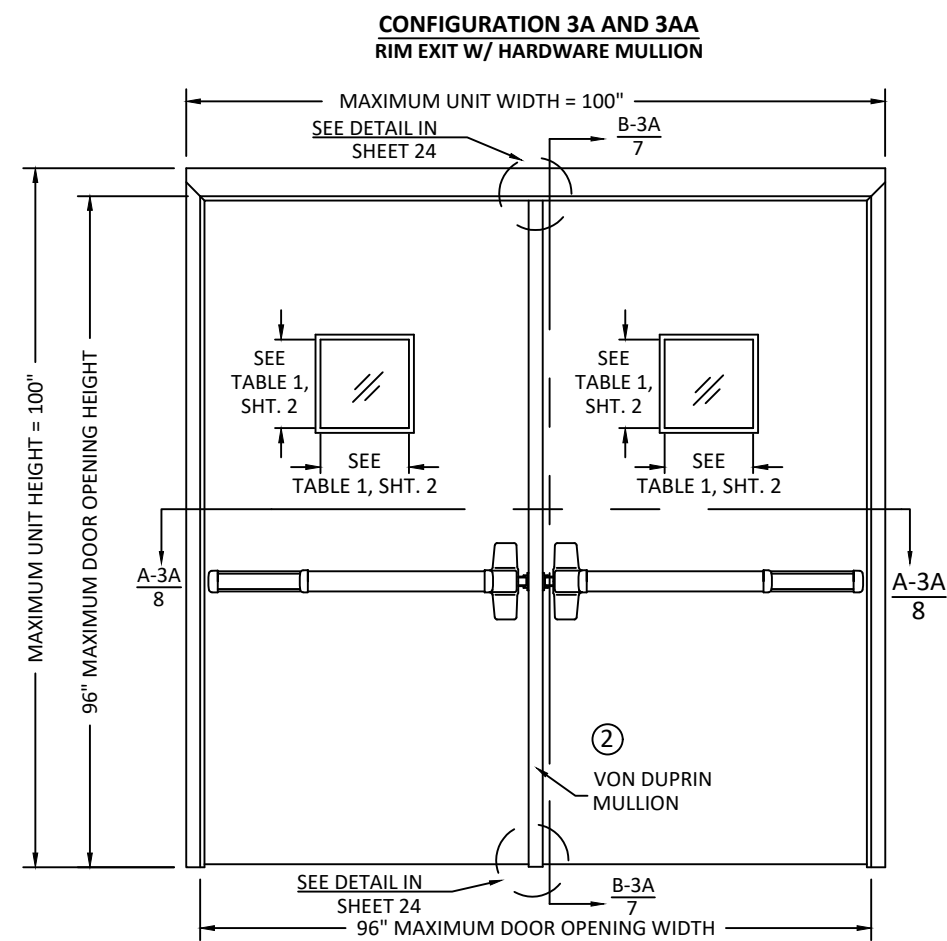
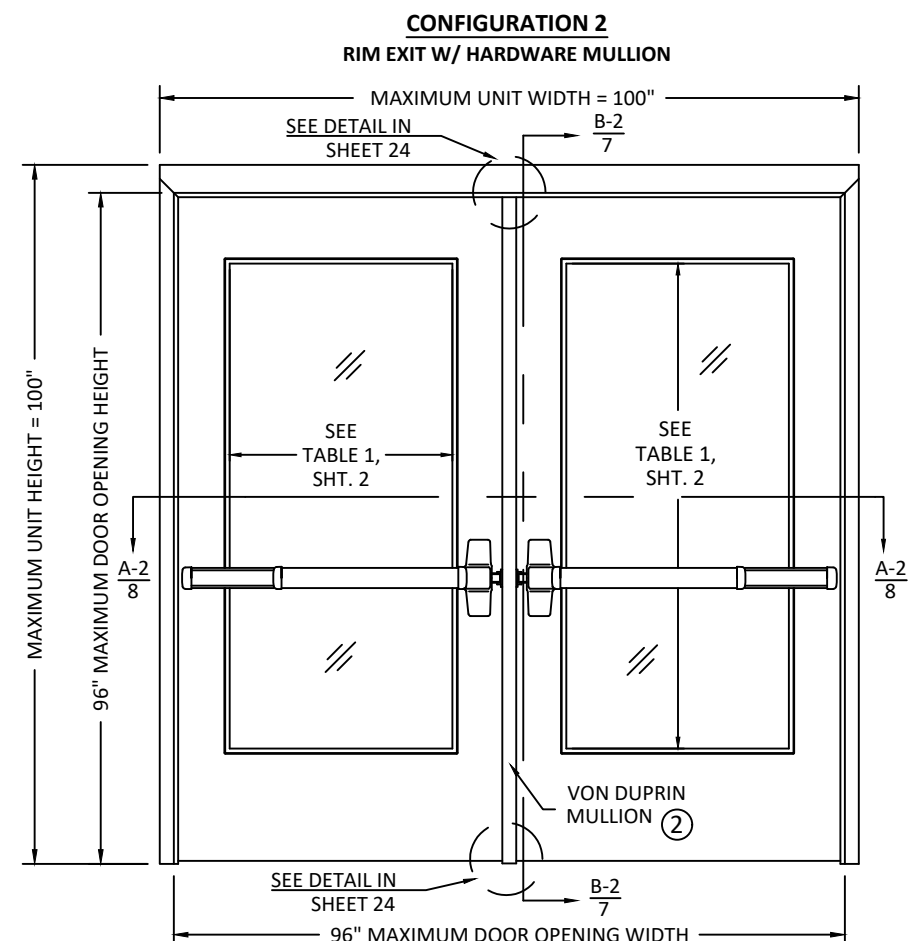
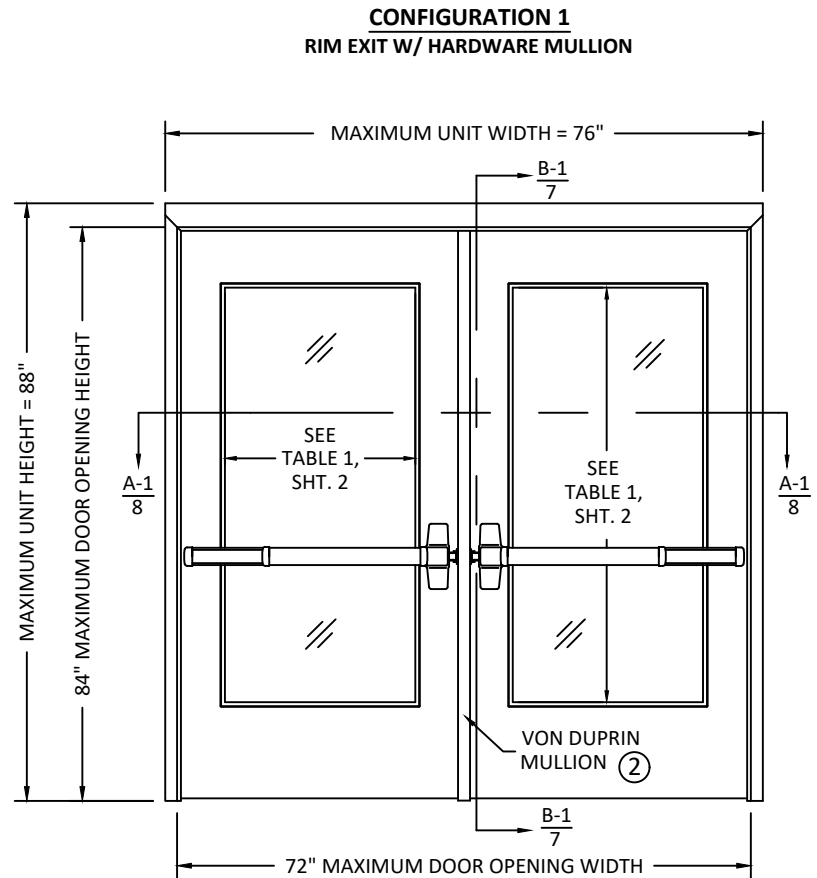


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HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
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MISC UPDATE	DI	12.09.25

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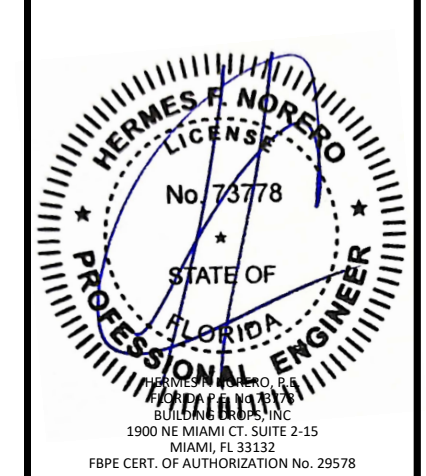
DOOR CONFIGURATIONS 1-3B

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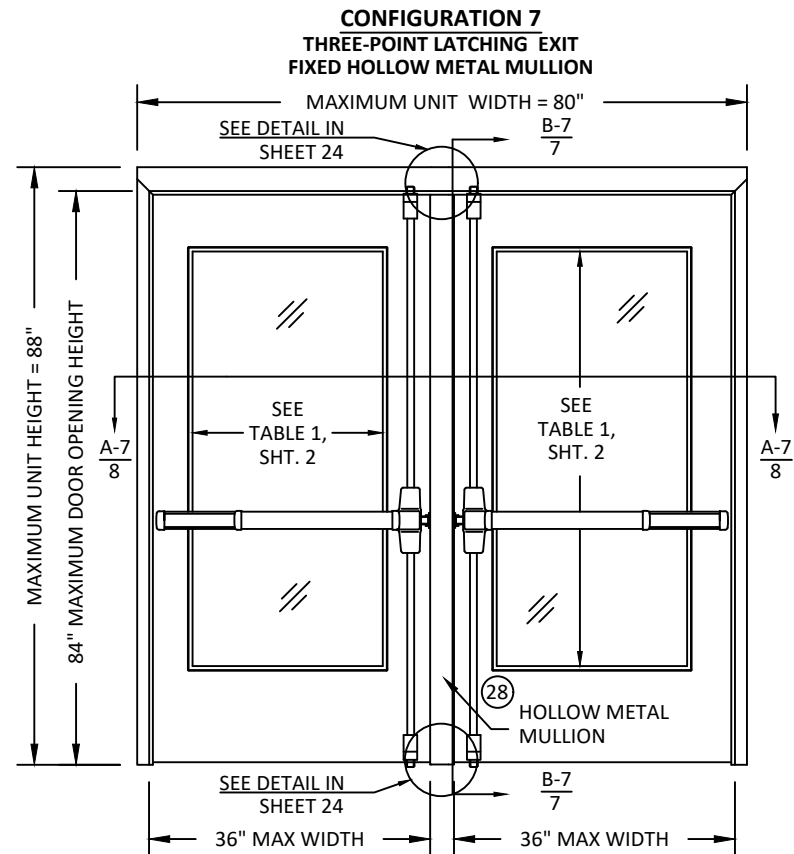
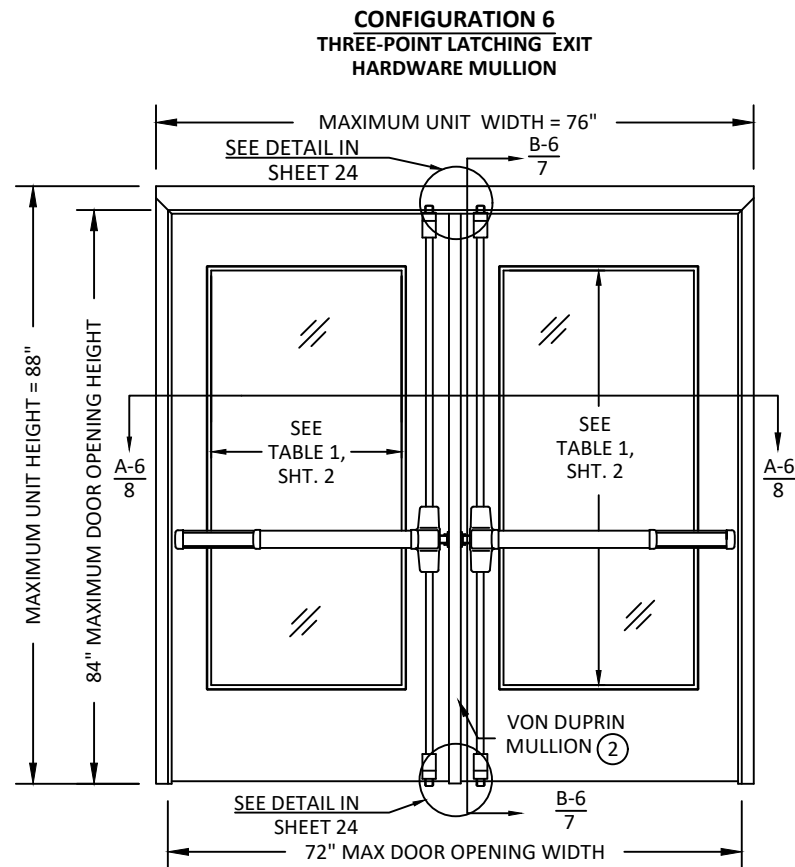
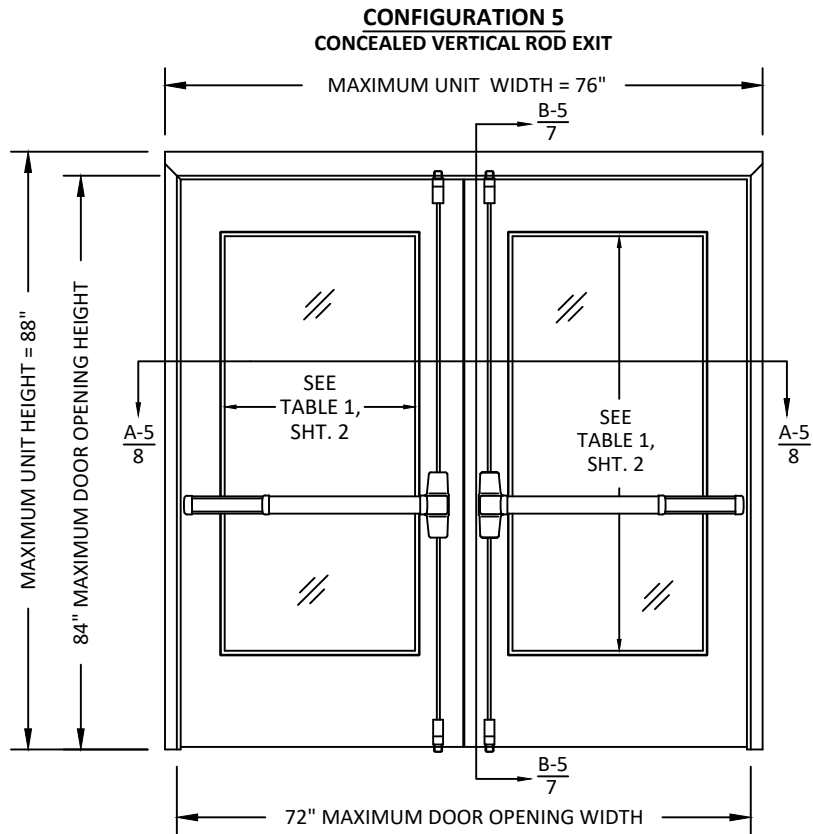
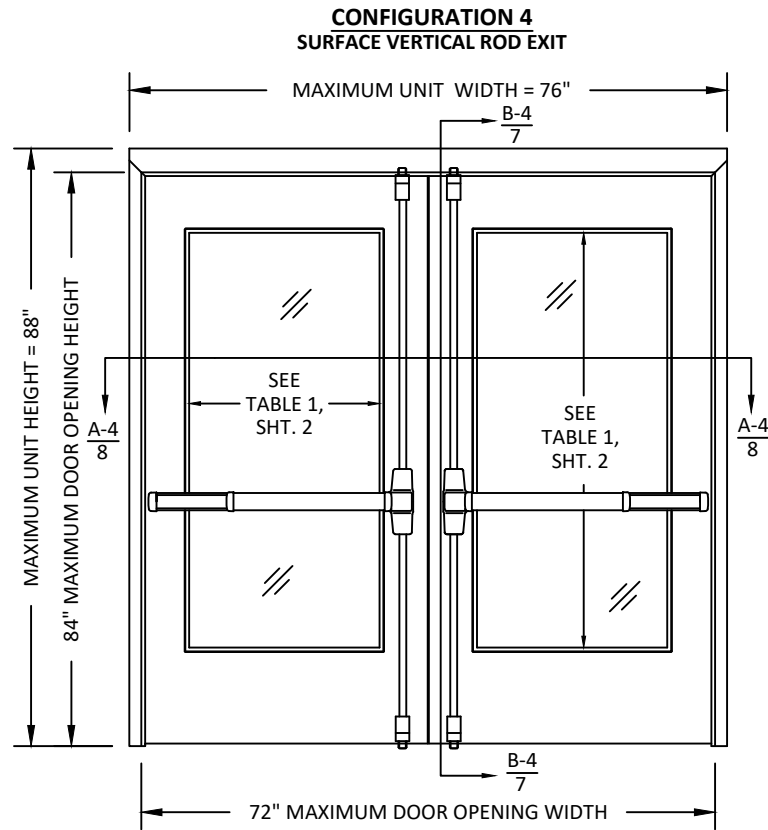
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DOOR CONFIGURATIONS 4-7

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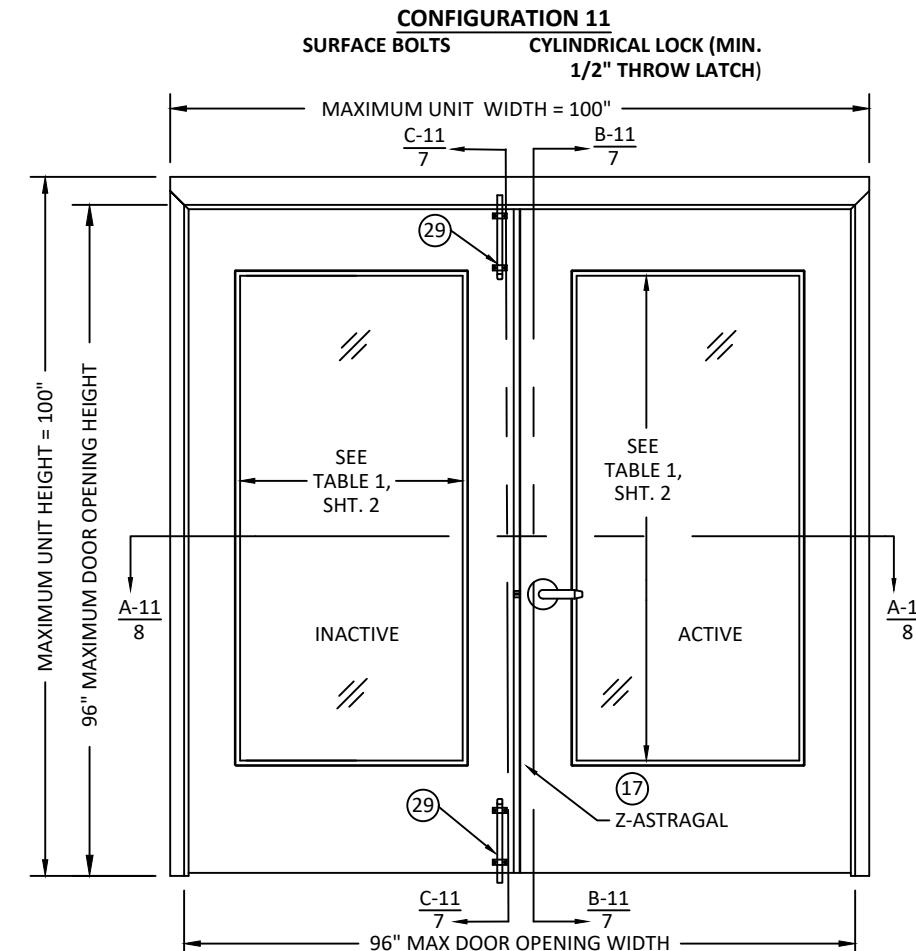
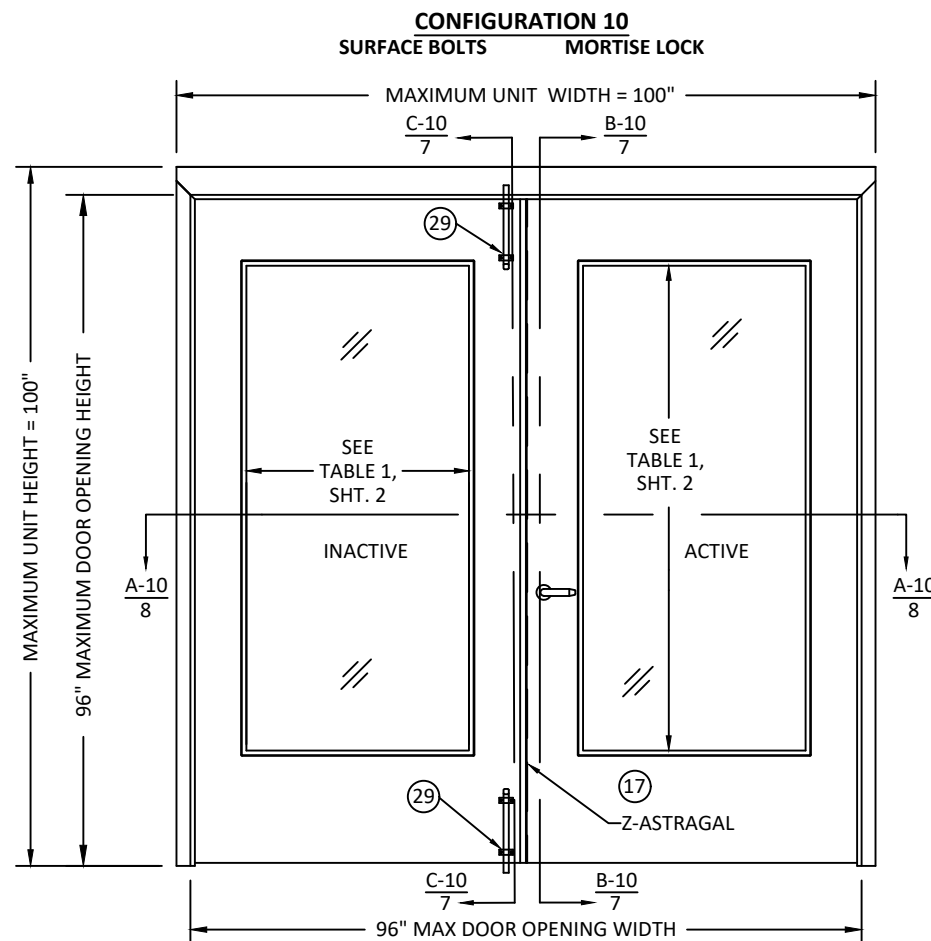
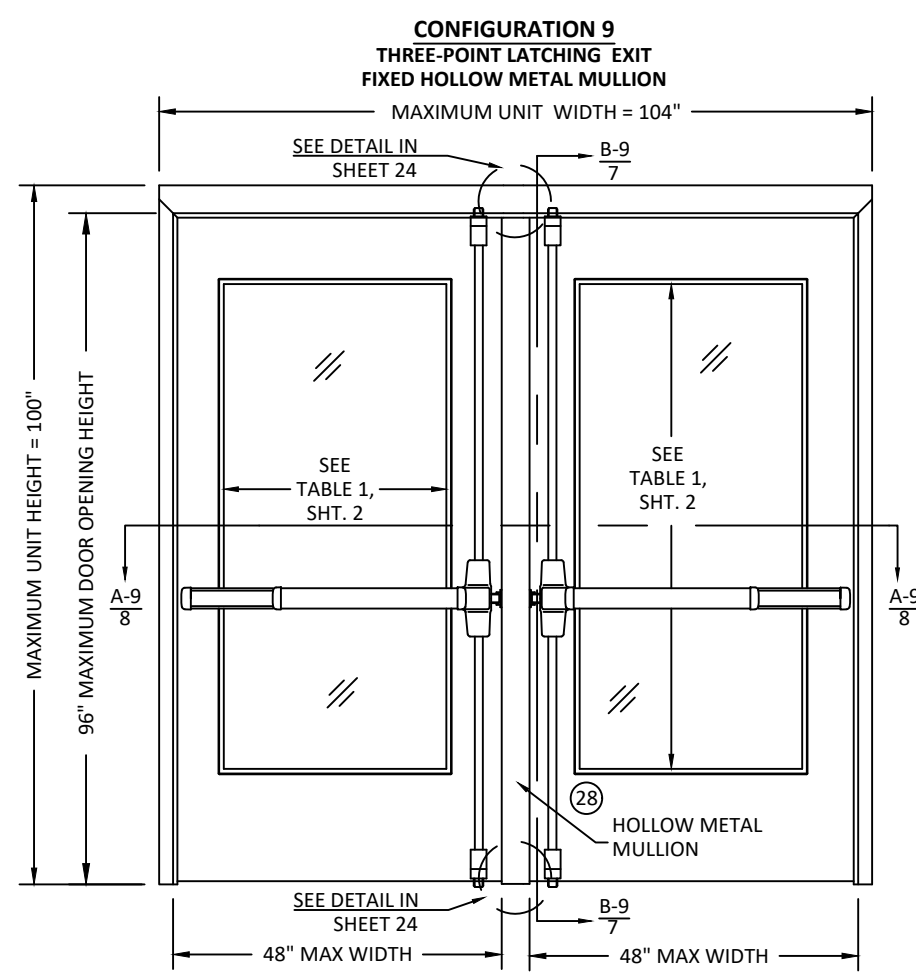
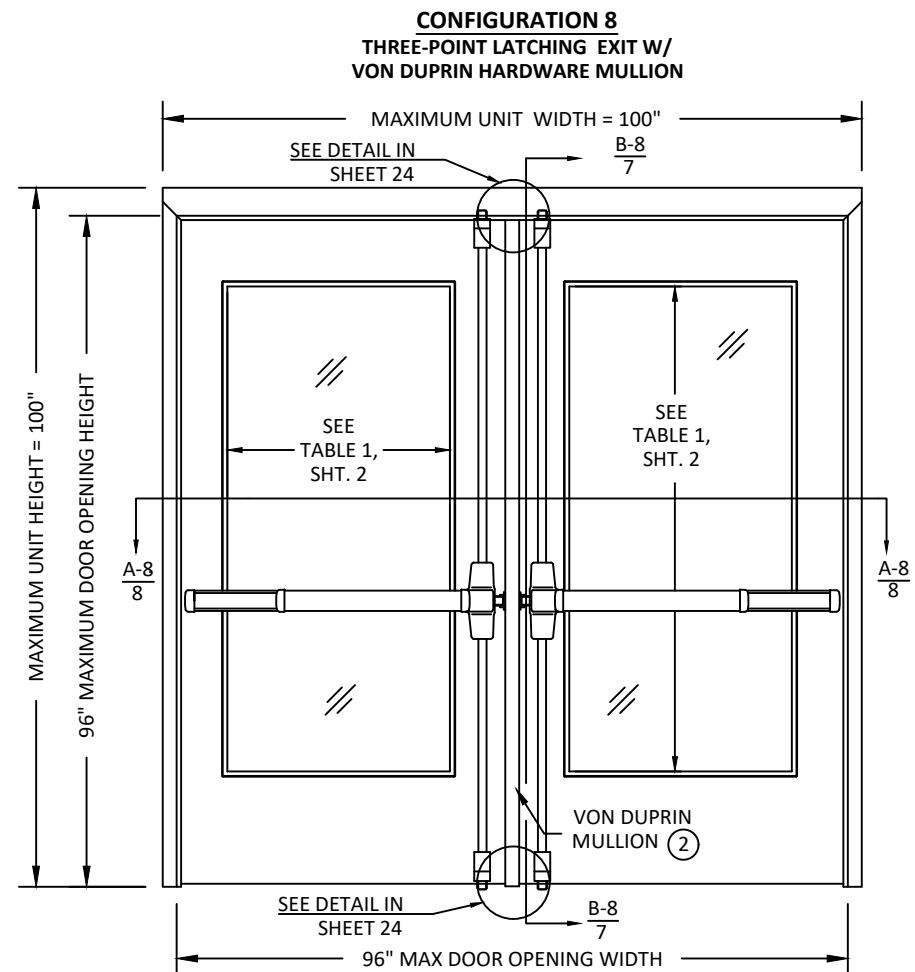
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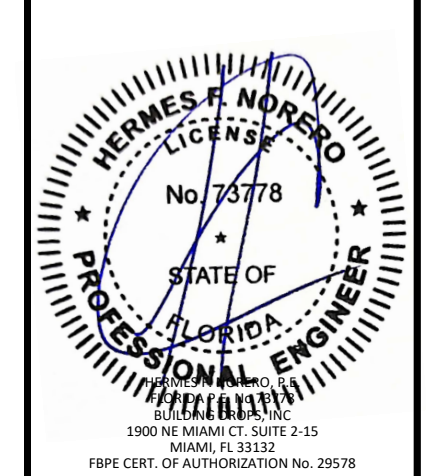
DOOR CONFIGURATIONS 8-11

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TITLE: OUTSWING DOUBLE GLAZED
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STEELCRAFT: OPENING DIMENSIONS
& BOM

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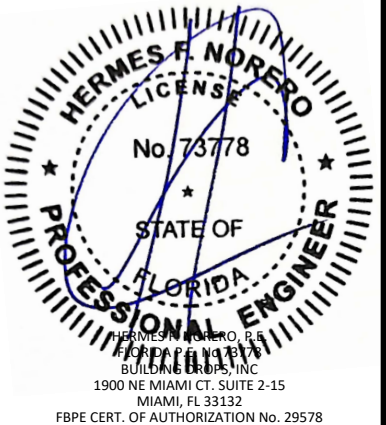
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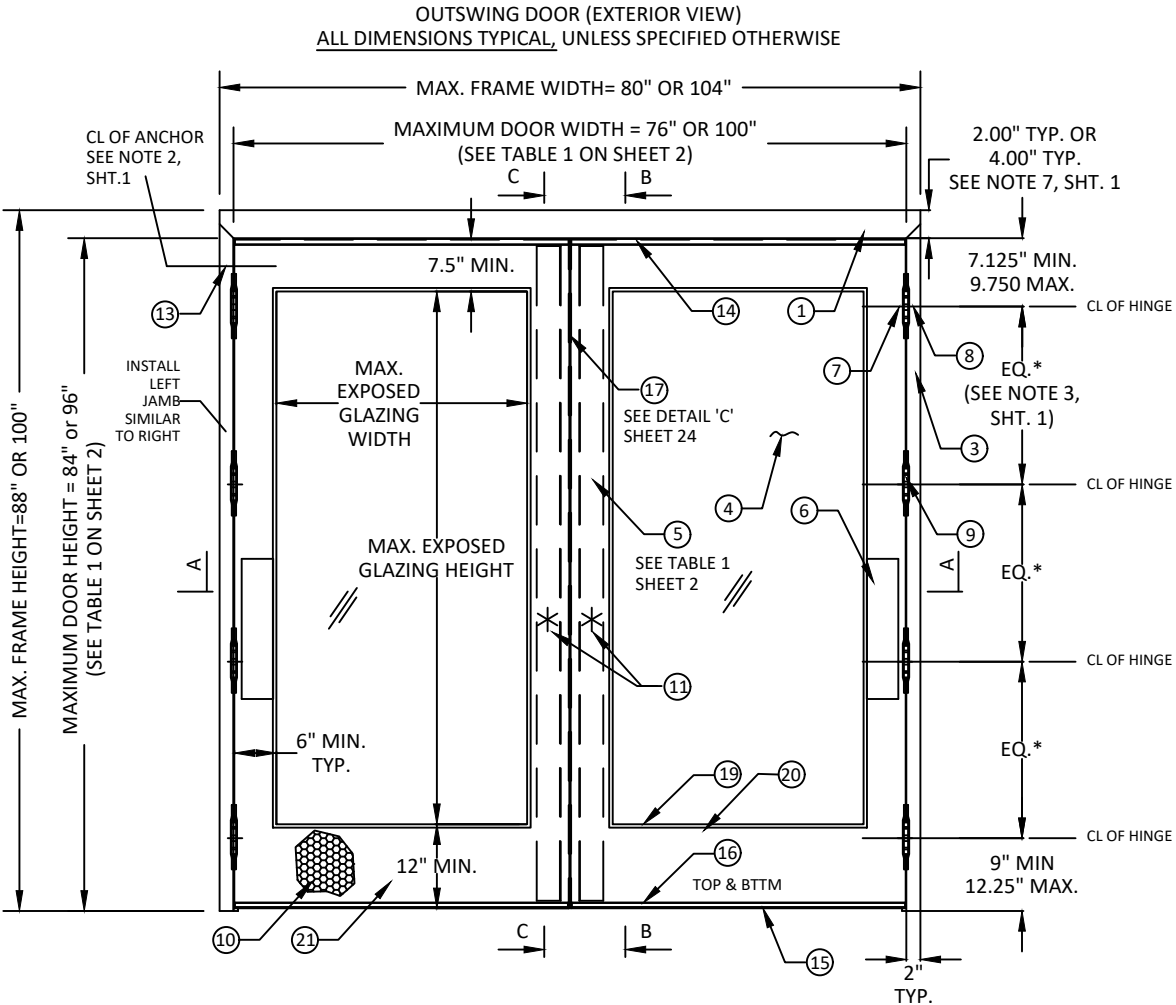
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DWG. BY:	CPA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	IRGD07
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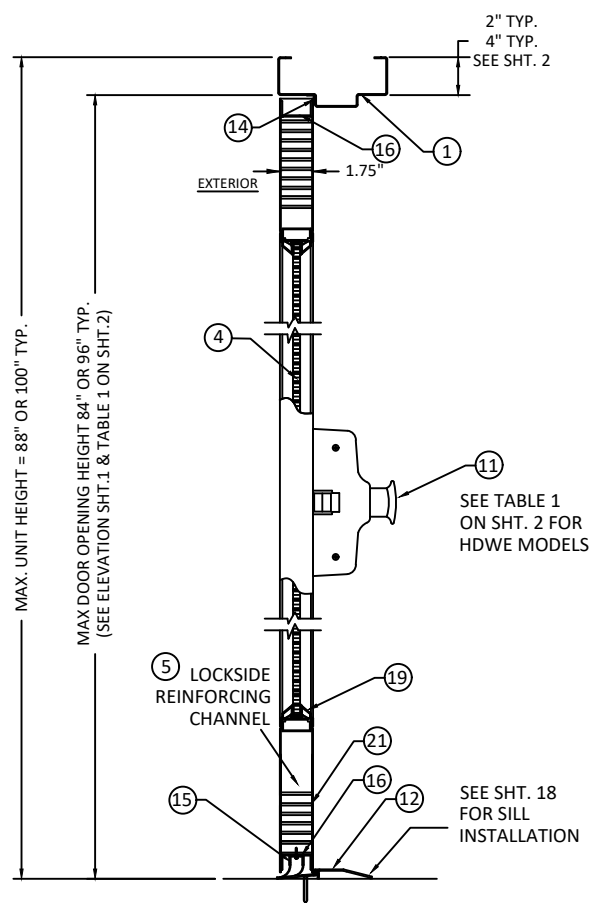
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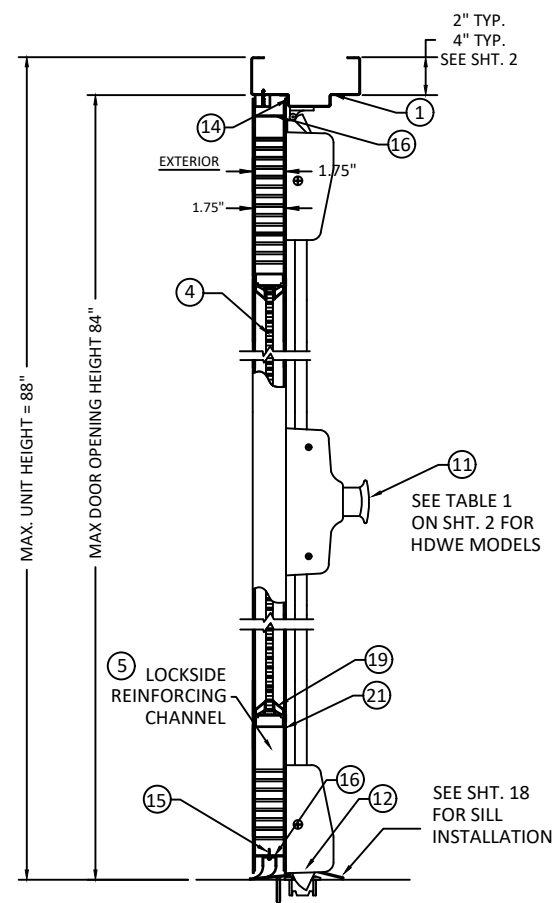
TABLE 2: (FOR OPTION 2 SEE TABLE 10 SHT. 29)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE	
1	1	HEAD, SEE SHT. 10	.053" MIN. STL	MAX. 100"	
2	1	2A) VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT	
		2B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION	.118" A500 STL		
3	2	HINGE JAMB, SEE SHT. 10	.053" MIN. STL	MAX. 100" HEIGHT	
4	VARIES	LEXAN BY SABIC INNOVATIVE PLASTICS	.25" OR .50"	35.406" X 75.656" MAX.	
		LAMINATED GLASS WITH KURARAY SENTRYGLAS INTERLAYER	.562" TYP.		
		SUPERLITE II-XL BY SAFTI W/ KURARAY SENTRYGLAS INTERLAYER	1.06" OR 1.438" TYP.		
		5/16" HS LAMINATED GLASS WITH SAFLEX CP BY EASTMAN INTERLAYER	.3125" TYP.		
5	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.	
6	AS REQUIRED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"	
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.	
8	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.19" MIN.	
9	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 23)	.134 MIN.	(8) #12-24 MS PER HINGE	
		OPTIONAL CONTINUOUS HINGE (SEE SHEET 23)	.075" MIN.STL / .110 ALUM.	MAX. 95"	
10	2	CORE MATERIAL:		SEE SHT. 9	
		D) HONEYCOMB	C) STEEL STIFFENED		
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE			
		E) MINERAL BOARD TEMPERATURE RISE CORE			
11	2	LOCKING HARDWARE - LOCKSET	SEE SHTS. 25-28		
12	1	THRESHOLD SILL W/BUMPER GASKET (SHTS. 19-22)		5.0" X 0.5" X 96" MAX	
		12A) 566 ZERO WATER RATED, SHTS. 19 & 20, NON WATER SHT. 21	.125" ALUM. 6063 T5		
		12B) 950A NGP WATER RATED SHTS. 19 & 20, NON WATER SHT. 21	.078" ALUM. 6063 T5		
		12C) 65 ZERO NON WATER RATED SEE SHT. 21	0.125" ALUM. 6063 T5	6.0" X 0.5" X 96" MAX.	
		12D) 568 ZERO NON WATER RATED SEE SHT. 21	0.125" ALUM. 6063 T5		
13	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 13-17 & 32-36	-	
14	SEE SHTS. 19-22	14A) PS074 DOOR SEAL	TPE	VARIES	
		14B) 188S, 14C) 117S, 14D) 8144S, 14E) 8150S, DOOR SEAL ZERO	SILICONE		
15	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 48"	
16	4	END CHANNEL (14 GAGE - INVERTED)	-	.69" X 1.66" X 48" MAX.	
17	1	17A) 328 SPLIT ASTRAGAL BY ZERO INT'L	SEE SHTS. 19-22	-	
		17B) 137 SPLIT ASTRAGAL BY NGP			
18	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 19-22	-	
19	AS NEEDED	GLAZING HOLDING TRIM SEE SHT. 12		0.032" MIN. STL.	34.25" X 74.5" EXPOSED GLASS MAX SEE SHTS. 11, 12 & 12A FOR DETAILS & LIMITATIONS
		A) DESIGNER TRIM			
		B) STEEL OVERLAPPING TRIM			
		F) STEEL OVERLAPPING TRIM			
		E) HIGH SECURITY VISION FRAME	SG-10 BY ANEMOSTAT	.093" (12GA) MIN. STL.	
			VLF-S10 BY AIR LOUVERS	.123" (10GA) MIN. STL.	
		D) VLF-EZHRC		.032" MIN. STL.	
C) VLF IGHRC					
20	NOTE 16, SHT. 1	CUTOUT REINFORCEMENT CHANNEL (18GA)		.047" MIN. STL	0.5" MIN. X 1.66" X 35.5" & 75.5" MAX.
21	2	DOOR SLAB (16 OR 14 GA)		SEE SHT. 9	3' X 7' OR 4' BY 8' MAX
22	1	22A) 8150S DOOR SEAL BY ZERO INT'L SEE SHT. 19	SILICONE	MAX 84" OR 96"	
		22B) 188S DOOR SEAL BY ZERO INT'L SEE SHT. 20			
23	4	202N DOOR SWEEP BY NGP, SHT. 20		TPE	MAX 48"
24	2	24A) 139 DOOR SWEEP BY ZERO INT'L SEE SHTS. 19 & 20	TPE	MAX 96" FOR VERTICAL MAX 48" FOR HORIZONTAL	
		24B) 328 DOOR SWEEP BY ZERO INT'L SEE SHT. 20			
		24C) 200N DOOR SWEEP BY NGP SEE SHT. 20			
25	2	25A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHT. 20	TPE	MAX 104"	
		25B) 170N ADJUSTABLE SEAL BY NGP SEE SHT. 19			
26	1	26A) 142 RAIN DRIP BY ZERO INT'L		SEE SHTS. 19 & 20	MAX. 36" OR 48"
	2	26B) 11 RAIN DRIP BY ZERO INT'L		SEE SHTS. 19 & 20	-
27	2	26C) 16A RAIN DRIP BY NGP		SEE SHT. 20	
		27A) TOP GALV. A60	.020" MIN. STL	MAX. 48"	
	27B) 18 GA DOOR FLUSH TOP CAP	.047" MIN. STL			
28	1	HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)		SEE SHT. 24	MAX. 84" OR 96"
29	2	IVES SB360 SURFACE BOLT - TOP & BOTTOM INACTIVE LEAF COFIG. 10 & 11		STEEL	12" MIN. - 24" MAX. LENGTH
32	1	Z-ASTRAGAL REQUIRED FOR CONFIGS. 10 & 11		.067" MIN. STL	MAX 95.5"

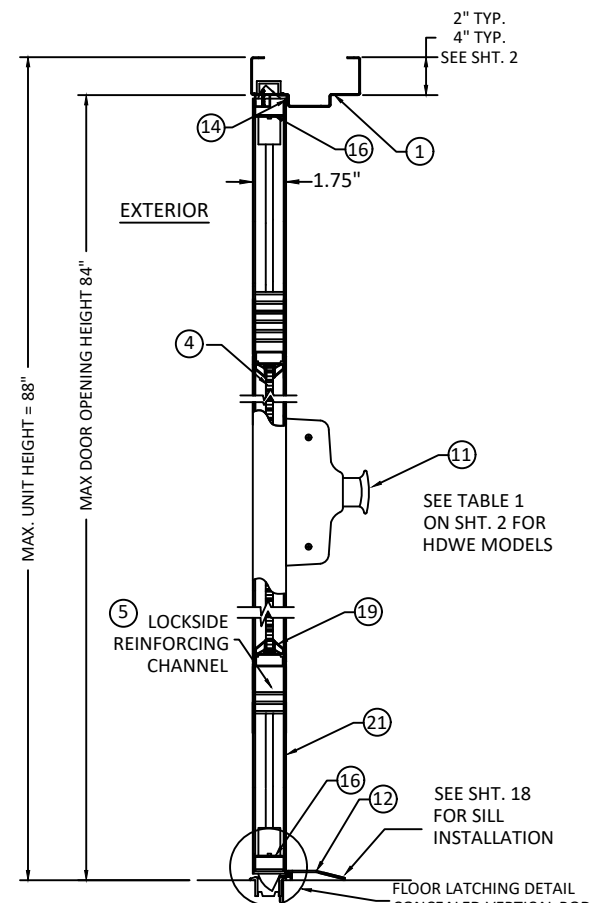




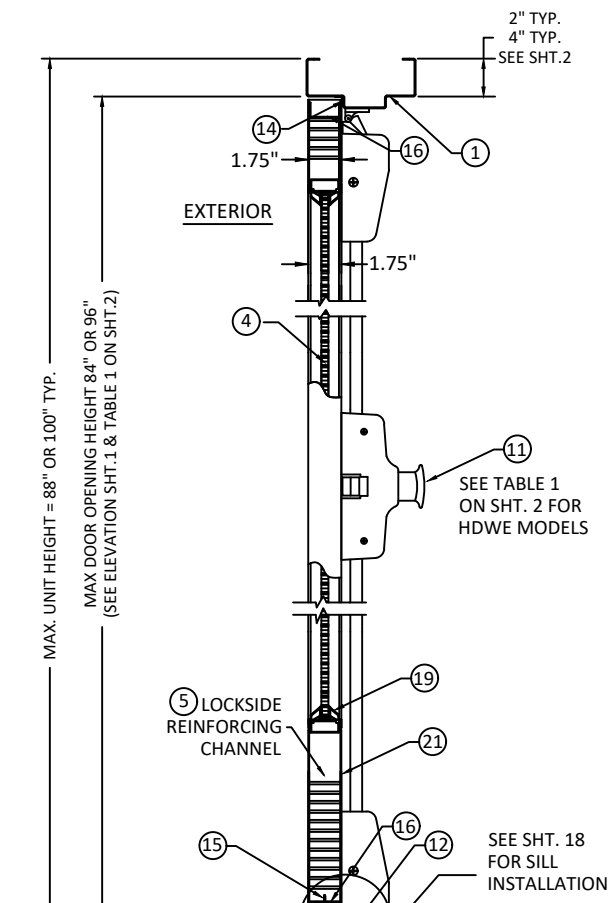
RIM EXIT DEVICE.
SECTIONS B-1, B-2, B-3A, B-3B, B-3AA & B-3BB
CONFIGURATIONS 1, 2, 3A, 3B, 3AA, 3BB (SEE SHT. 3)



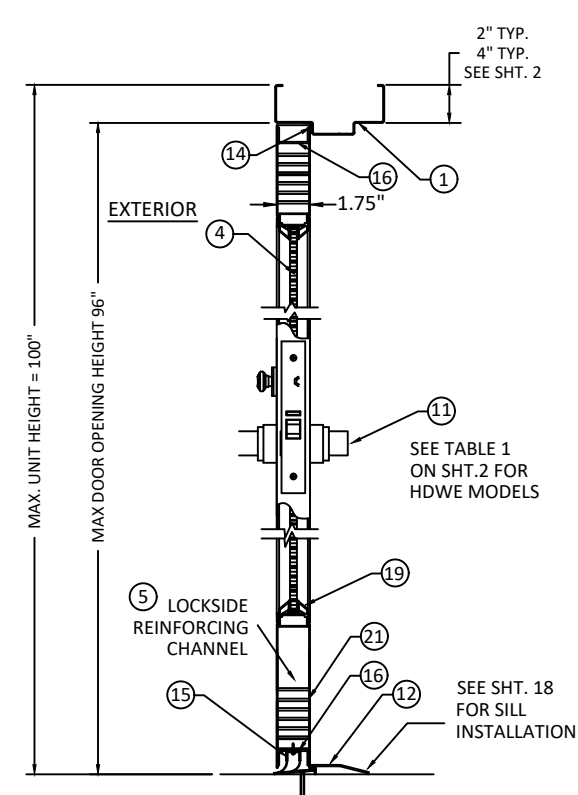
SURFACE VERTICAL ROD EXIT DEVICE.
SECTION B-4
CONFIGURATION 4 (SEE SHT. 4)



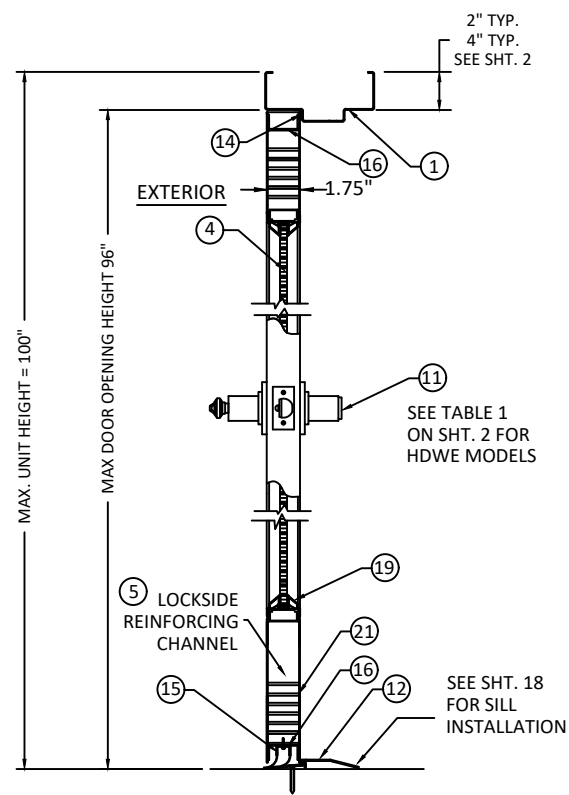
CONCEALED VERTICAL ROD EXIT DEVICE.
SECTION B-5
CONFIGURATION 5 (SEE SHT. 4)



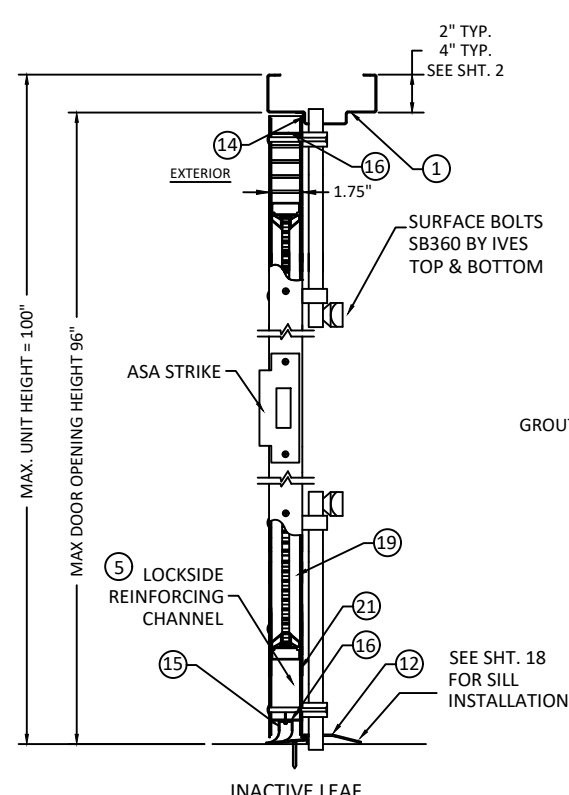
**3-POINT LATCHING EXIT DEVICE WITH
HARDWARE MULLION**
SECTIONS B-6, B-8
CONFIGURATIONS 6 & 8 (SEE SHTS. 4 & 5)



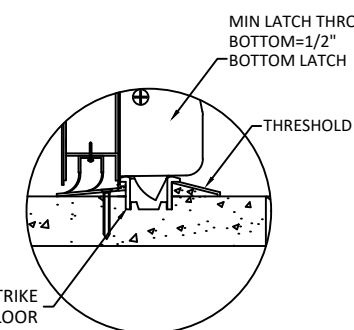
MORTISE LOCKSET.
SECTION B-10
CONFIGURATION 10 (SEE SHT. 5)



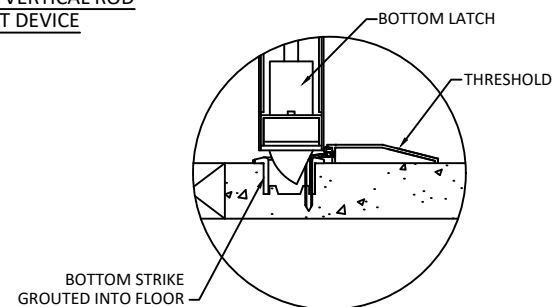
CYLINDRICAL LOCKSET.
SECTION B-11
CONFIGURATION 11 (SEE SHT. 5)



INACTIVE LEAF
SECTION C-10, C-11
CONFIGURATIONS 10 & 11 (SEE SHT. 5)



**FLOOR LATCHING DETAIL
SURFACE VERTICAL ROD
EXIT DEVICE**



**FLOOR LATCHING DETAIL
CONCEALED VERTICAL ROD
EXIT DEVICE**



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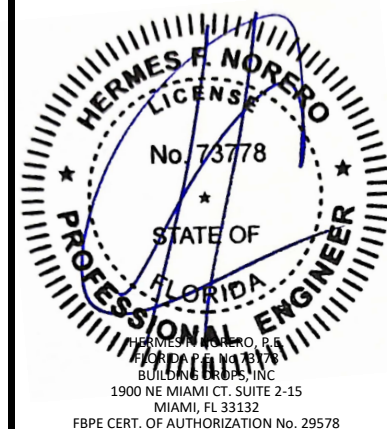
TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
DOOR & FRAME VERTICAL
SECTION VIEWS

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MIAMI, FL 33132
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LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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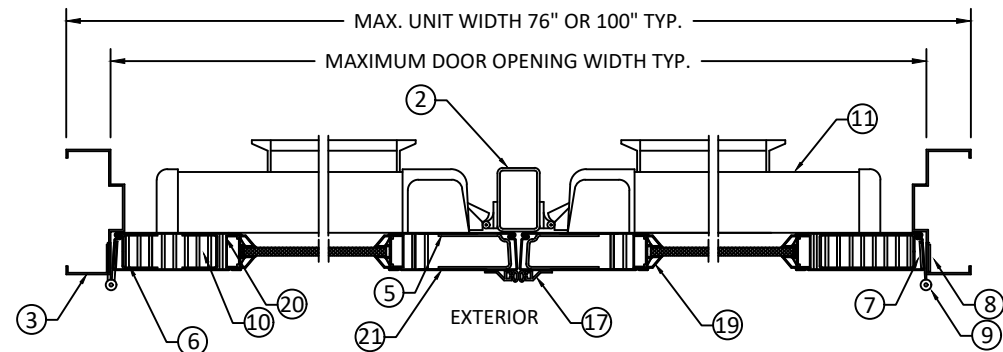
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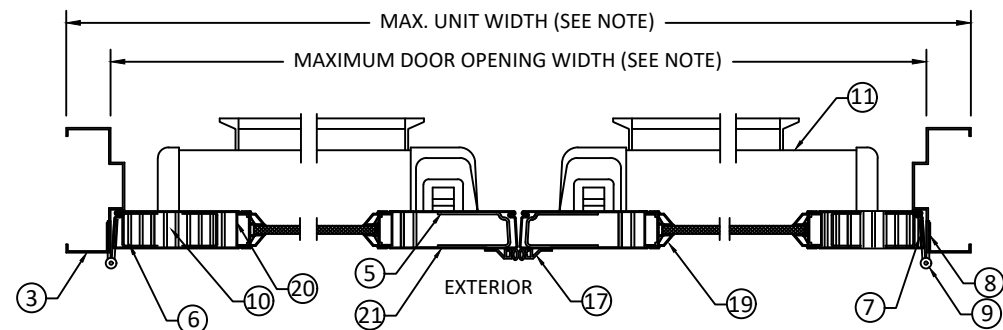
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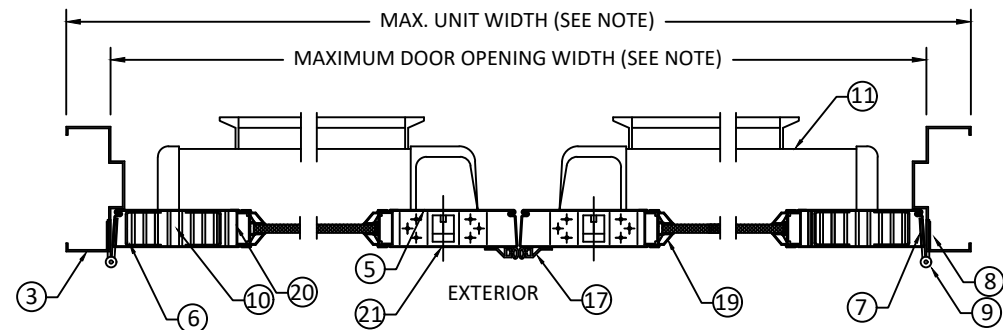
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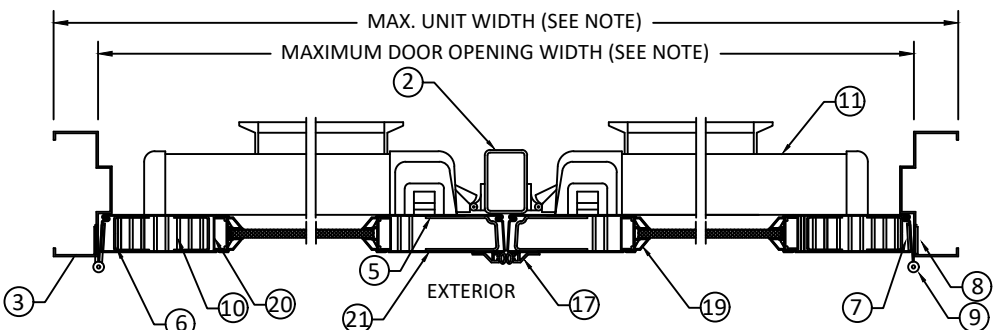
RIM EXIT DEVICE WITH VON DUPRIN MULLION
SEE MULLION DETAIL C-2 SHEET 28
SECTION A-1, A-2, A-3A, A-3B, A-3AA, A-3BB
CONFIGURATIONS 1, 2, 3A, 3B, 3AA, 3BB
(SEE SHT. 3)



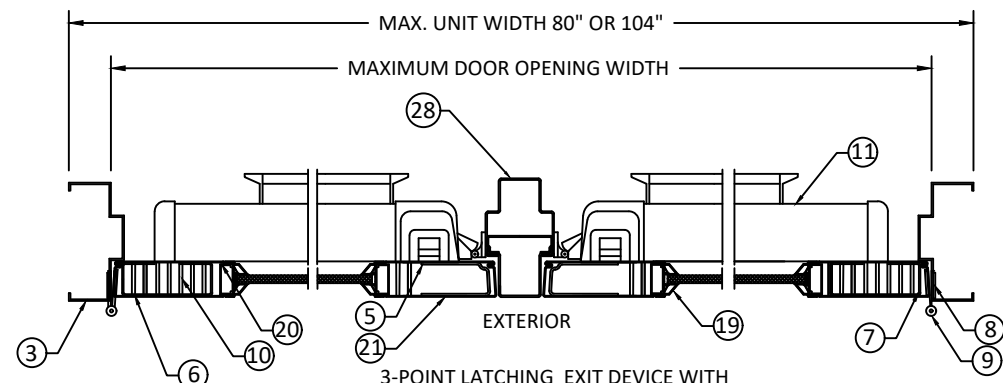
SURFACE VERTICAL ROD EXIT DEVICE.
SECTION A-4
CONFIGURATION 4
(SEE SHT. 4)



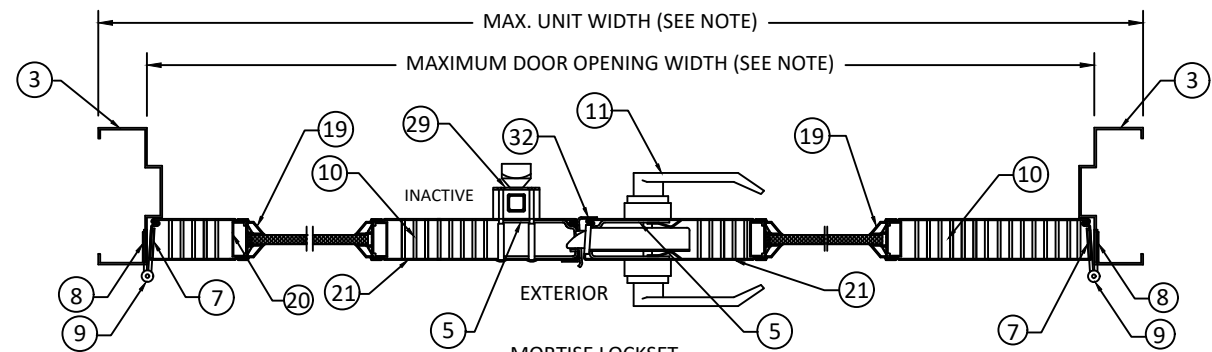
CONCEALED VERTICAL ROD EXIT DEVICE.
SECTION A-5
CONFIGURATION 5
(SEE SHT. 4)



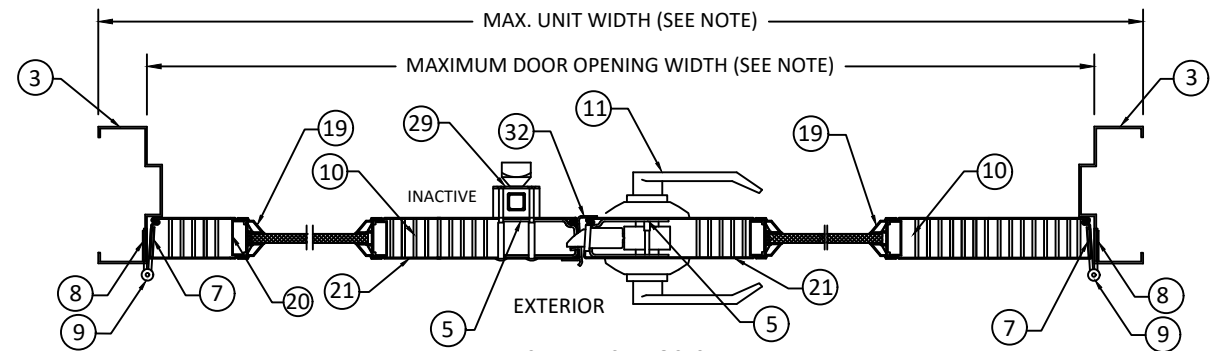
3-POINT LATCHING EXIT DEVICE WITH
VON DUPRIN MULLION
SECTION A-6, A-8
CONFIGURATIONS 6 & 8
(SEE SHT. 4 & 5)



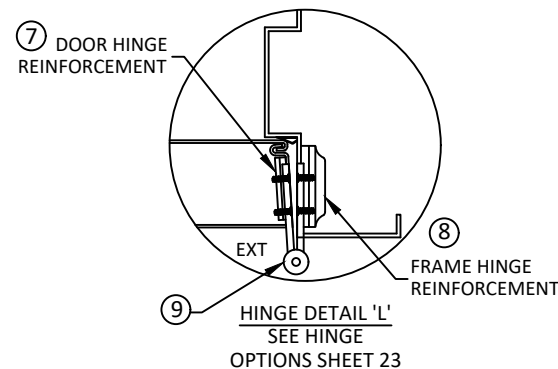
3-POINT LATCHING EXIT DEVICE WITH
FIXED HOLLOW METAL MULLION-SEE MULLION DETAIL SHEET 28
SECTIONS A-7, A-9
CONFIGURATIONS 7 & 9
(SEE SHT. 4 & 5)



MORTISE LOCKSET.
SECTION A-10
CONFIGURATION 10
(SEE SHT. 5)



CYLINDRICAL LOCKSET
SECTION A-11
CONFIGURATION 11
(SEE SHT. 5)



- NOTES:
1. FOR MAXIMUM DOOR OPENING AND GLASS (DLO) SIZE, SEE TABLE 1 ON SHEET 2 AND SHEET 11 FOR LIMITATIONS.
2. SEE SHEETS 13-18 & 32-37 FOR ANCHOR INSTALLATION AND SILL INSTALLATION DETAILS, AND SHEET 24 FOR MULLION ANCHOR INSTALLATION.



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TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

DOOR & FRAME HORIZONTAL
SECTION VIEWS

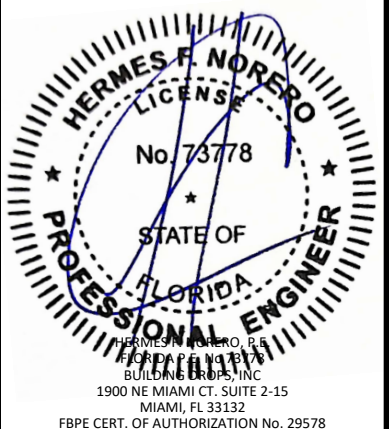
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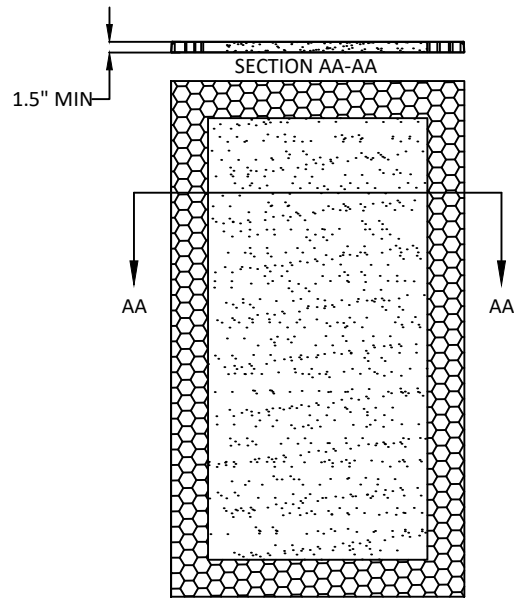
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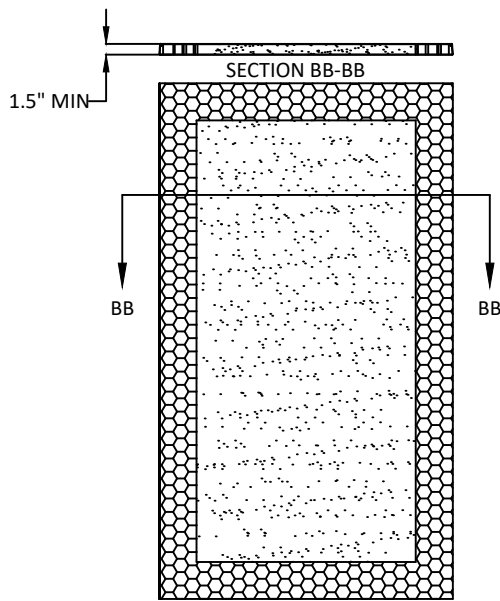
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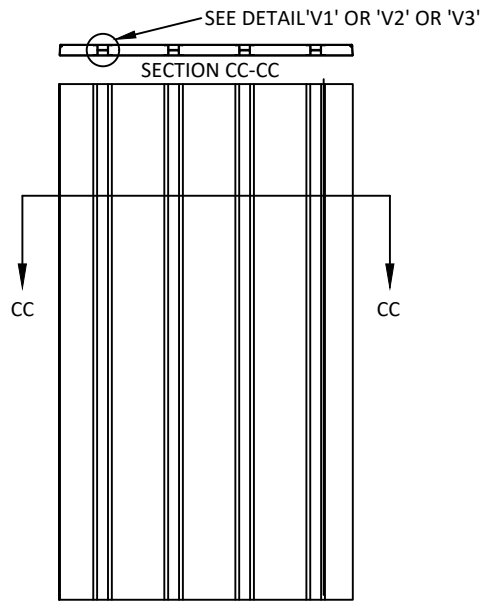
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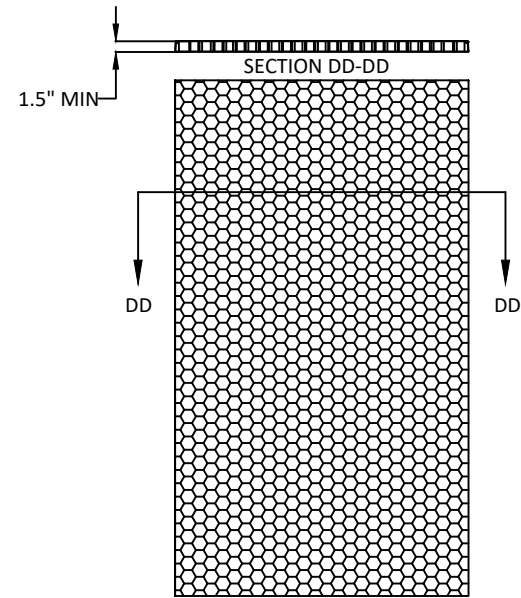
(A) EXPANDED POLYSTYRENE FOAM
DENSITY: 1.0 LBS/FT³



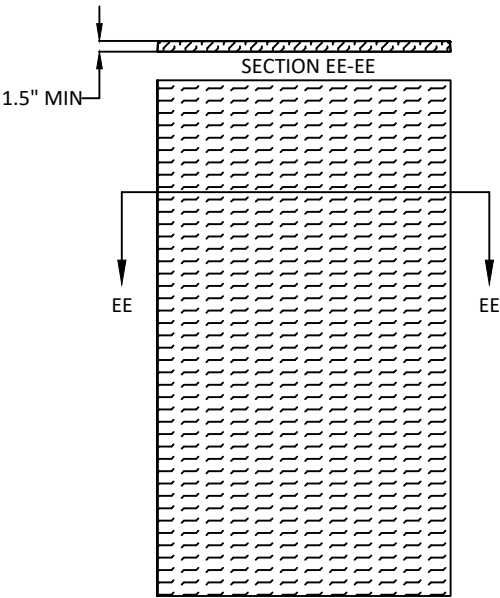
(B) POLYISOCYANURATE
(POLYURETHANE)
DENSITY: 2 LBS/FT³



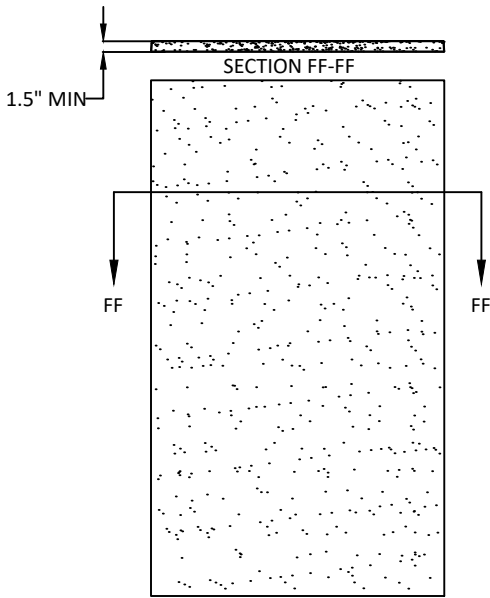
(C) STEEL STIFFENED
HAT SHAPED SECTIONS



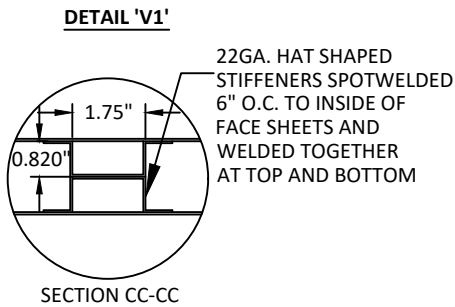
(D) HONEYCOMB
KRAFT PAPER.



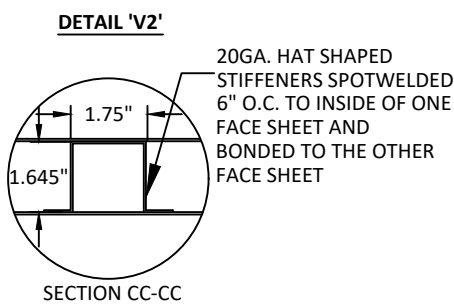
(E) TEMPERATURE RISE CORE
MINERAL FIBER BOARD
DENSITY: 17±1.5 LBS/FT³
OR
PSL-P250C-60
OR
CALCIUM SILICATE MINERAL CORE



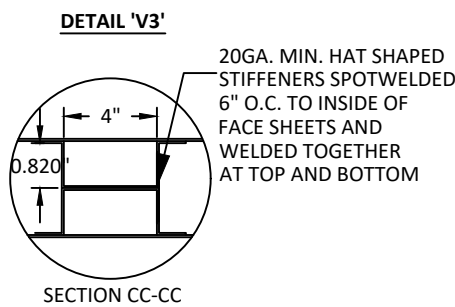
(F) EXPANDED POLYSTYRENE FOAM
DENSITY: 1.0 LB/FT³ OR
POLYISOCYANURATE (POLYURETHANE)
DENSITY: 2 LBS/FT³



SECTION CC-CC



SECTION CC-CC



SECTION CC-CC

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"

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



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COMMERCIAL STEEL DOORS
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DOOR PANEL & CORE DETAILS

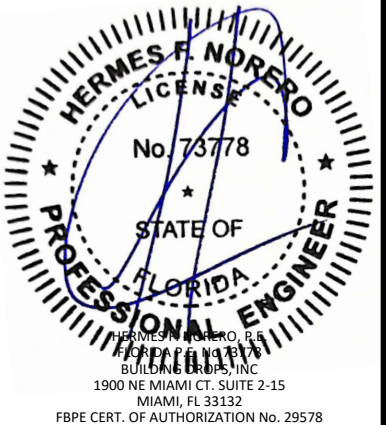
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MIAMI, FL 33132
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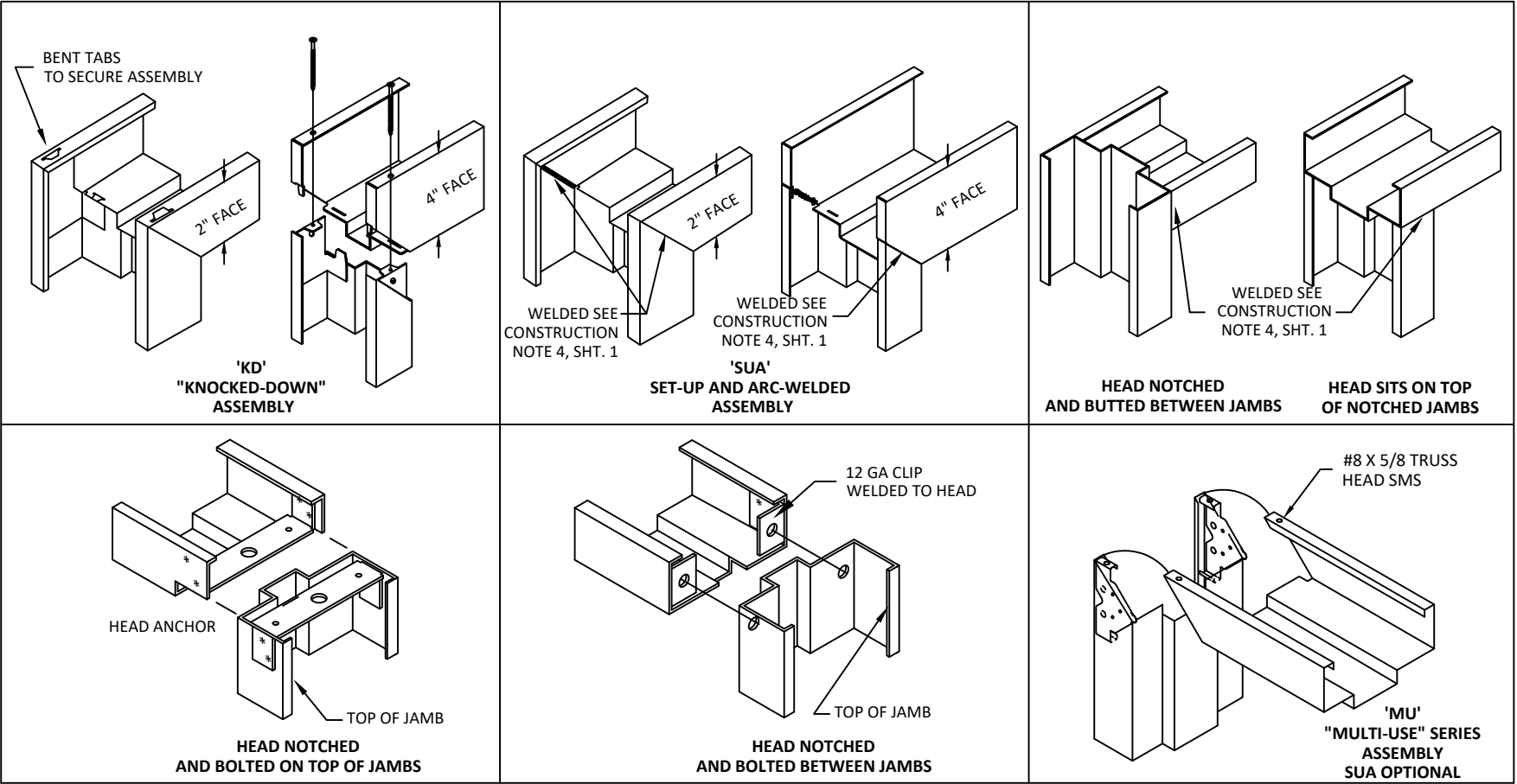
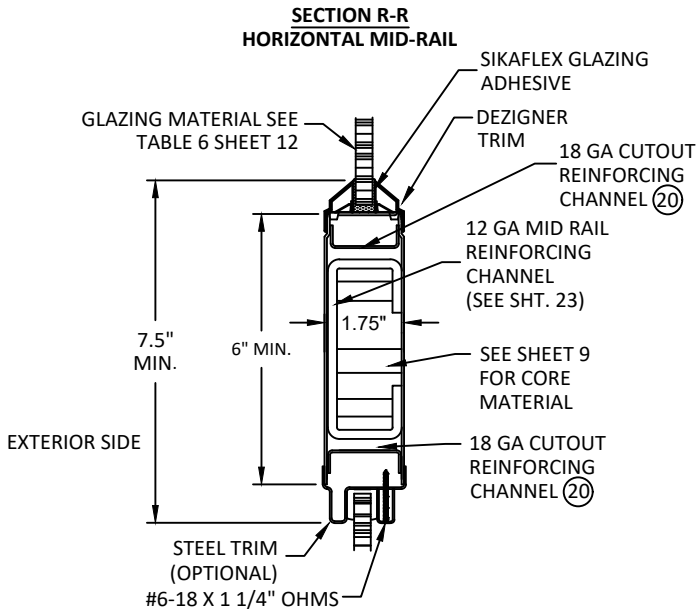
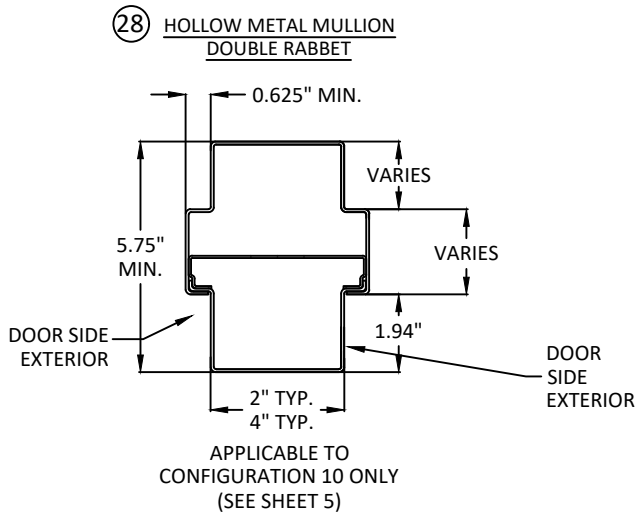
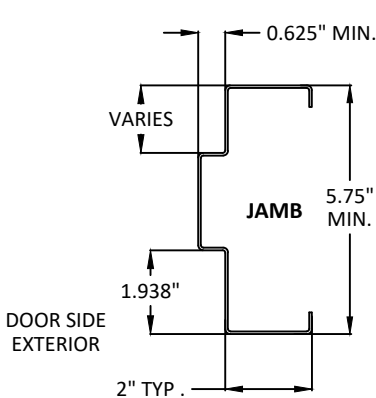
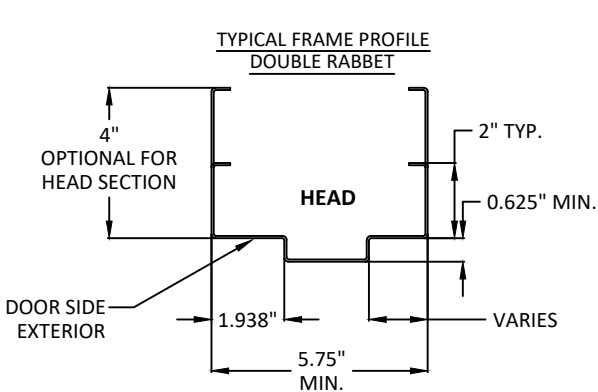


TABLE 4: AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAX. OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
MU	5.75" MIN.	8'0"	8'0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 5: STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 41.5	MIN. 52.4
HRS	A1011		
GALV.	A924/A653		



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CARMEL, IN 46032
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TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

STEELCRAFT: FRAME DETAILS &
CORNER CONSTRUCTION

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

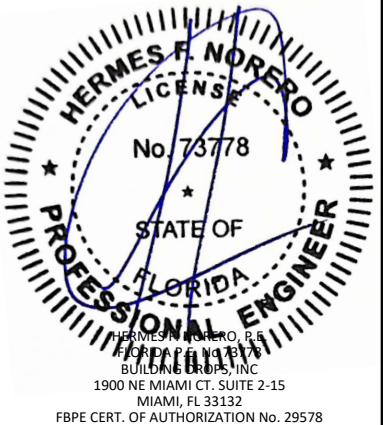
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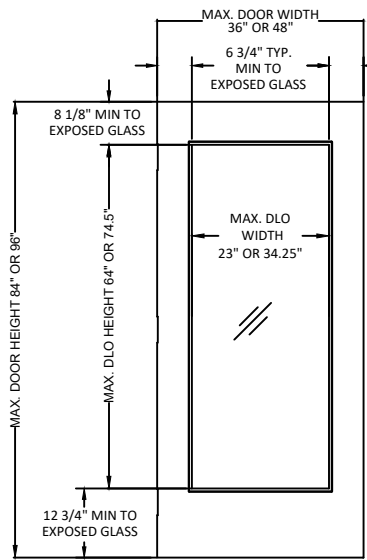
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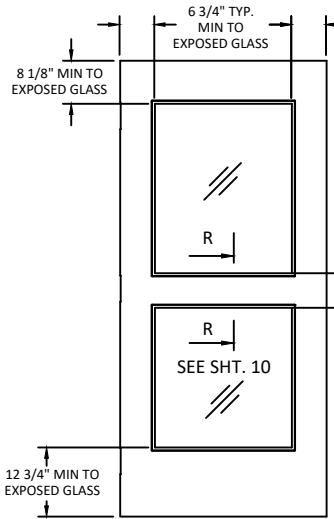
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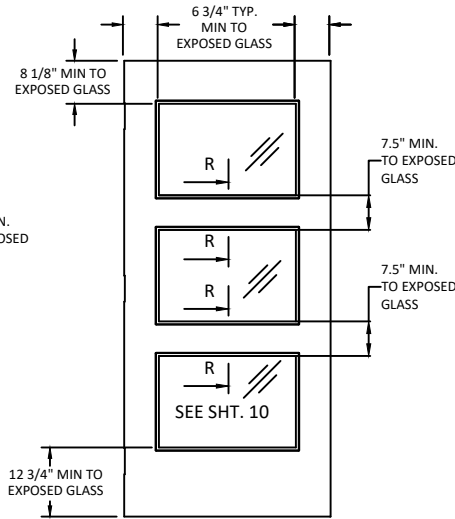
OF 37



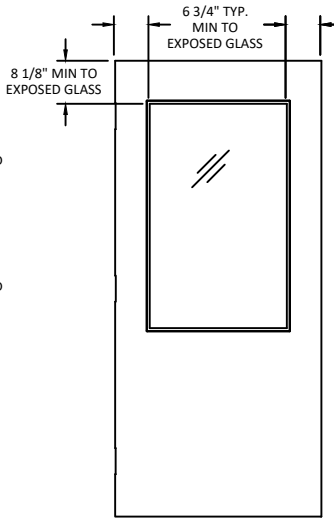
FG-LITE FULLY
GLAZED



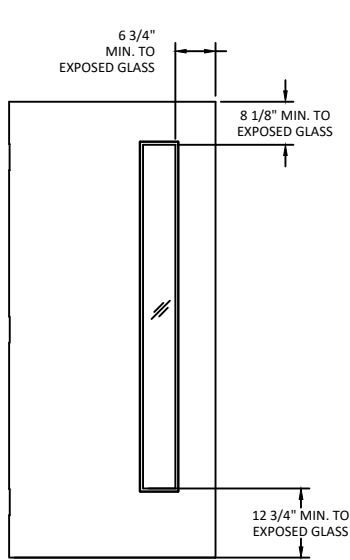
FG2-LITE
HORIZONTAL MID-RAIL



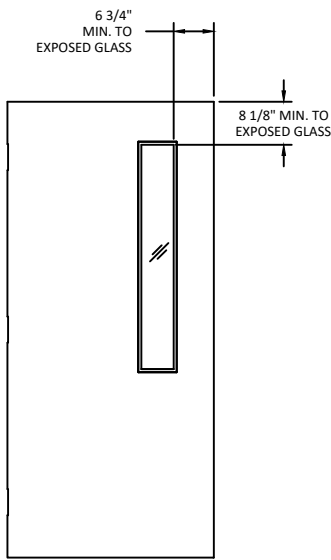
FG3-LITE
2 HORIZONTAL MID-RAILS



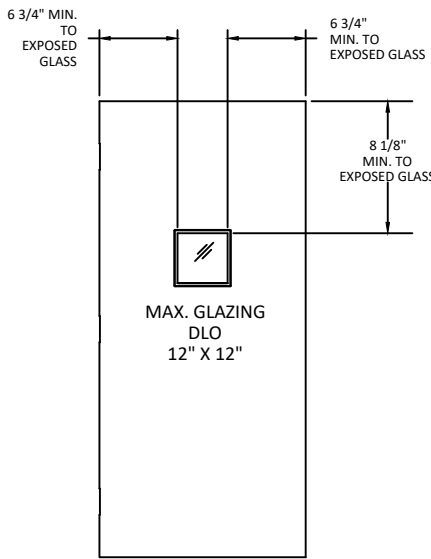
G-LITE
HALF GLASS



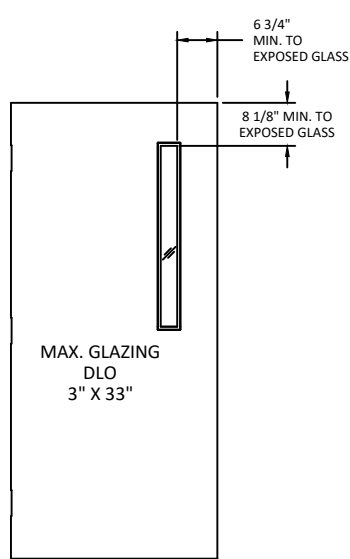
LNL
LONG NARROW LITE



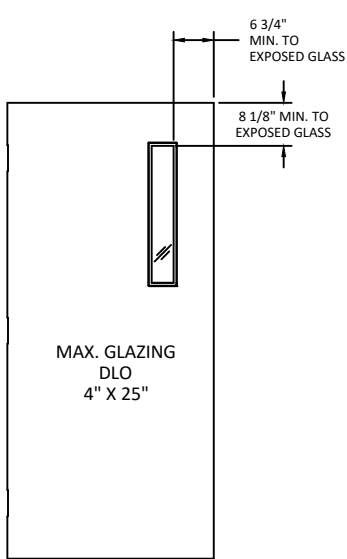
N
NARROW LITE



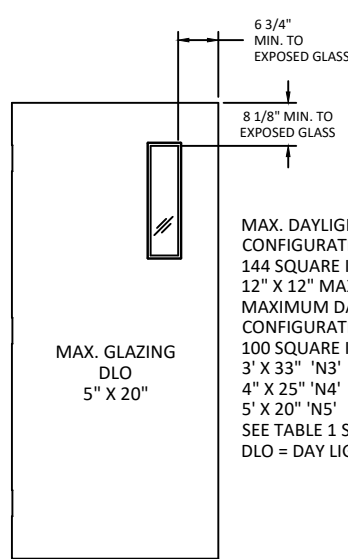
V
VISION LITE



N3

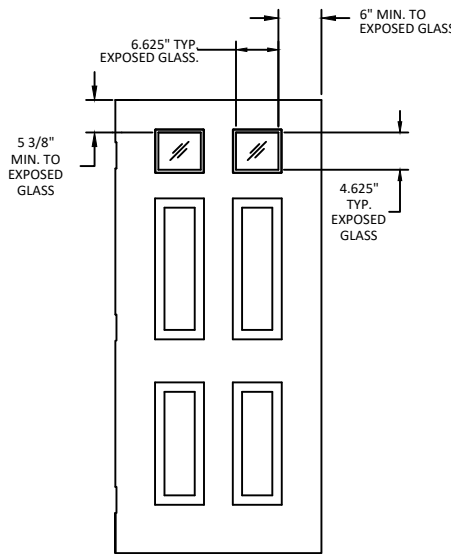


N4

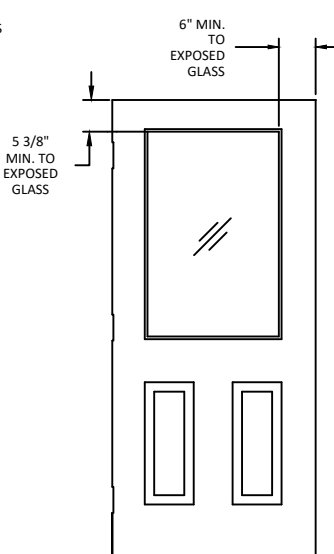


N5

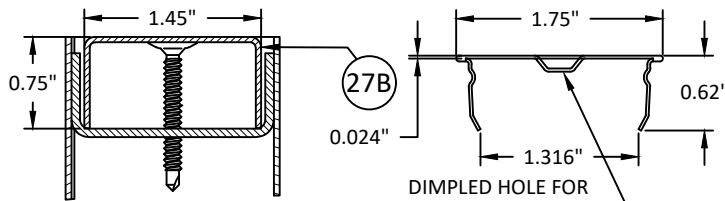
MAX. DAYLIGHT OPENING FOR
CONFIGURATION 3A IS
144 SQUARE INCHES
12" X 12" MAX. 'V' VISION LITE
MAXIMUM DAYLIGHT OPENING FOR
CONFIGURATION 3B IS
100 SQUARE INCHES DLO
3' X 33" 'N3'
4" X 25" 'N4'
5' X 20" 'N5'
SEE TABLE 1 SHEET 2
DLO = DAY LIGHT OPENING



E4 TL



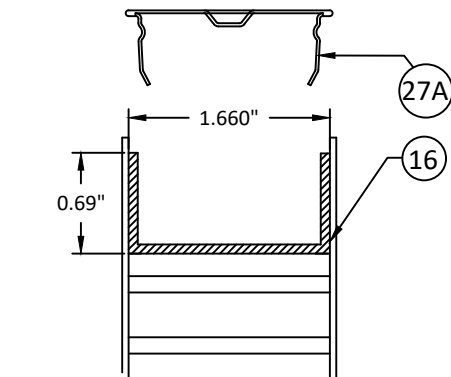
E2 G



DIMPLED HOLE FOR
#8X1-1/2 PHFH
SELF-DRILLING SCREW

27B STEELCRAFT: 18 GA
FLUSH TOP CAP
(OPTIONAL)

27A STEELCRAFT: 24 GA TOP CAP
(OPTIONAL)



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

- NOTES:
1. DOOR CONSTRUCTION
 2. NOMINAL DOOR THICKNESS - 1 3/4"
 3. ALL GLASS LITE TYPES SHOWN ON THIS SHEET ARE AVAILABLE FOR ALL DOOR CONFIGURATIONS SHOWN ON SHEETS 3-5 AND TABLE 1 SHEET 2 EXCEPT FOR CONFIGURATIONS 3A AND 3B. SEE NOTE 4
 4. DOOR CONFIGURATION 3A AVAILABLE WITH 'V' VISION LITE AND 3B IS AVAILABLE WITH N3, N4 AND N5 TYPE LITE. (SEE TABLE 1 SHEET 2)
 5. MAXIMUM GLAZING DLO HEIGHT AND WIDTH AS PER SHEETS 2-5.
 6. GLAZING OPENING DLO SIZE WILL CHANGE IN PROPORTION WITH DOOR SIZE. (SEE TABLE 1 SHEET 2 FOR LIMITATIONS)
 7. DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER.
 8. GLASS LITES NOT LIMITED TO THOSE SHOWN, PROVIDED DIMENSIONS SHOWN ARE MAINTAINED. (SEE TABLE 1 SHEET 2)
 9. DOORS WITH MULTIPLE GLASS LITES ARE NOT LIMITED TO THE DESIGNS SHOWN, PROVIDED THE DIMENSIONS SHOWN ARE MAINTAINED. (SEE TABLE 1 SHEET 2 FOR LIMITATIONS)
 10. WHEN USING A CONTINUOUS HINGE THE MINIMUM DISTANCE FROM THE EDGE OF THE DOOR TO EXPOSED GLASS IS 6-1/4" AT STILES AND 7-1/2" AT MID RAILS.
 11. DLO = DAYLIGHT OPENING (SEE TABLE 1 SHEET 2 FOR LIMITATIONS)
 12. VERIFY GLAZING OPTION ON SHEET 12 & 12A IS AVAILABLE FOR GLASS LITE TYPE AND SIZE.



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

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

DOOR CONFIGURATION

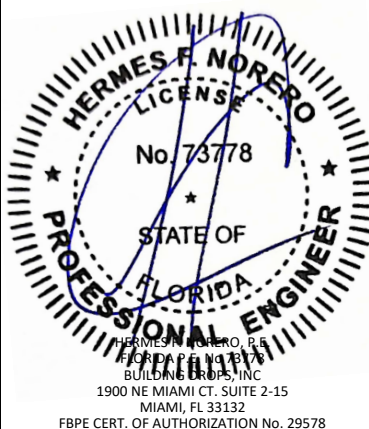
PREPARED BY: BUILDING DROPS, INC.

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

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
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DWG. #: IRGD07

SHEET:

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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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TITLE: OUTSWING DOUBLE GLAZED
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GLAZING DETAILS

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GLAZING TYPE 1	GLAZING TYPE 2	GLAZING TYPE 3	
GLAZING TYPE 1 DETAIL 9/16" HS LAMINATED GLASS WITH SENTRYGLAS INTERLAYER	GLAZING TYPE 2 DETAIL 1-1/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER	GLAZING TYPE 3 DETAIL FIRE RATED 1-7/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER BY KURARAY	
GLAZING TYPE 4	GLAZING TYPE 5	GLAZING TYPE 6	GLAZING TYPE 7
GLAZING TYPE 4 DETAIL 1-13/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER	GLAZING TYPE 5 DETAIL 5/16" HS LAMINATED GLASS WITH SAFLEX CP INTERLAYER	GLAZING TYPE 6 DETAIL 1/4" LEXAN BY SABIC	GLAZING TYPE 7 DETAIL 1/2" LEXAN BY SABIC

TABLE 6. GLAZING TYPES AND METHODS					
TYPE	GLAZING MATERIAL	TYPE	TRIM DESCRIPTION	SEALANT ADHESIVE	GLAZING ADHESIVE
1	9/16" HS LAMINATED GLASS WITH SENTRYGLAS INTERLAYER	A	DEZIGNER (1/2")	SIKAFLEX 552	SIKAFLEX 552 OR DOW CORNING 995/975/983 1/16" X 5/8" BEAD
		B	STEEL TRIM		
		F	1" STEEL TRIM		
2	1-1/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER	E	SECURITY VISION FRAME SG-10 BY NGP ANEMOSTAT OR VLF-S10 BY AIR LOUVERS	NONE	SIKAFLEX 552 OR DOW CORNING 995/975/983 1/16" X 5/8" BEAD
		F	1" STEEL TRIM		
3	1-7/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER	E	SECURITY VISION FRAME SG-10 BY NGP ANEMOSTAT OR VLF-S10 BY AIR LOUVERS	NONE	SIKAFLEX 552 OR DOW CORNING 995/975/983 1/16" X 5/8" BEAD
4	1-13/16" SUPERLITE II-XL™ BY SFTI WITH SENTRYGLAS INTERLAYER	E	SECURITY VISION FRAME SG-10 BY NGP ANEMOSTAT OR VLF-S10 BY AIR LOUVERS	NONE	SIKAFLEX 552 OR DOW CORNING 995/975/983 1/16" X 5/8" BEAD
5	5/16" HS LAMINATED GLASS WITH SAFLEX CP BY EASTMAN INTERLAYER	C	VLF-IGHRC	DOW 995	DOW 995
6	LEXAN BY SABIC INNOVATIVE PLASTICS 1/4"	A	DEZIGNER (1/4")	SIKAFLEX 552	SIKAFLEX 222UV OR 295UV 1/16" X 5/8" BEAD
		B	STEEL TRIM		
		F	1" STEEL TRIM	DOW 995	DOW 995
		D	VLF-EZHRC		
7	LEXAN BY SABIC INNOVATIVE PLASTICS 1/2"	A	DEZIGNER (1/2")	SIKAFLEX 552	SIKAFLEX 222UV OR 295UV 1/16" X 5/8" BEAD
		B	STEEL TRIM		
		F	1" STEEL TRIM		

1/4" OR 1/2" LEXAN
(POLYCARBONATE BY SABIC
INNOVATIVE PLASTICS)

GLAZING ADHESIVE
SIKAFLEX 222 UV
OR 295 UV

1/16" THICK X 5/8"
WIDE BEAD

ADHESIVE-SEALANT
SIKAFLEX-552

1/16" THICK X 1/2"
WIDE BEAD

DESIGNER TRIM

RETAINER CLIP

RETAINER CLIP

DESIGNER TRIM

DESIGNER TRIM
CORNER DETAIL

TRIM
DESIGN

9/16" HS LAMINATED GLASS WITH SENTRYGLAS INTERLAYER GLAZING TYPE 1

GLAZING ADHESIVE SIKAFLEX 552 OR DOW 995/975/983 1/16" THICK X 5/8" WIDE BEAD

ADHESIVE-SEALANT SIKAFLEX-552 1/16" THICK X 1/2" WIDE BEAD

DESIGNER TRIM

RETAINER CLIP

21

20

10

Diagram illustrating the components of a window assembly cross-section:

- 9/16" HS LAMINATED GLASS WITH SENTRYGLAS INTERLAYER GLAZING TYPE 1
- GLAZING ADHESIVE SIKAFLEX 552 OR DOW 995/975/983
- 1/16" THICK X 5/8" WIDE BEAD
- STEEL TRIM (EXTERIOR SIDE)
- #6-18 X 1.25" SELF TAPPING SMS 10" OC MAX
- GLAZING BEAD (INTERIOR SIDE)

Callouts 10, 20, and 21 are also present, pointing to specific structural details of the assembly.

TRIM TYPE C DETAIL
AIR LOUVER VLF-IGHRC OPTION

GLAZING ADHESIVE
DOW 995
1/16" THICK X 5/8"
WIDE BEAD

5/16" HS LAMINATED
GLASS WITH SAFLEX CP
INTERLAYER GLAZING TYPE 5

STEEL TRIM
(EXTERIOR)

GLAZING
BEAD
(INTERIOR)

VLF-IGHRC MAX. SIZE:
30" x 60.5"

18

TRIM TYPE D DETAIL
AIR LOUVER VLF-EZHRC OPTION

GLAZING ADHESIVE
 DOW 995
 1/16" THICK X 5/8"
 WIDE BEAD

1/4" LEXAN

GLAZING
 BEAD
 (INTERIOR)

STEEL TRIM
 (EXTERIOR)

VLF-EZHRC MAX. SIZE:
 23.5" x 62.375"

TRIM TYPE F DETAIL
1" STEEL TRIM OPTION

1-1/16" NOM.
 SUPERLITE II-XL

GLAZING ADHESIVE
 SIKAFLEX 552
 OR DOW 995/975/983
 1/16" THICK X 5/8"
 WIDE BEAD

1" STEEL TRIM
 (EXTERIOR SIDE)

GLAZING BEAD
 (INTERIOR SIDE)

#6-18 X 1.25"
 SELF TAPPING SMS
 10" OC MAX

10" OC MAX.

2.5" MAX.

EXTERIOR

0.563"
 BITE

#6-1 1/4
 O.H.S.M. SCREWS
 10" OC MAX

1" STEEL TRIM
 CORNER DETAIL

1" STEEL TRIM

DETAIL SHOWS 1-1/16" GLASS (GLAZING TYPE 2)
 SIMILAR DETAILS APPLY FOR GLAZING TYPES 1 AND 7

0.500"

VARIES

40°

0.750"

1.238"

Technical drawing of a Z-profile with the following dimensions:

- Top flange width: 0.375"
- Web thickness: 0.156"
- Web height: 0.75"
- Bottom flange width: 1.750"
- Bottom flange thickness: 0.50"

Diagram of a 90-degree elbow with dimensions: 1.25" vertical leg, 1.75" horizontal leg, and .50" offset.

Diagram of a Z-section with dimensions: 0.75 inch flange width and 1.5 inch web height.



**TITLE: OUTSWING DOUBLE GLAZED
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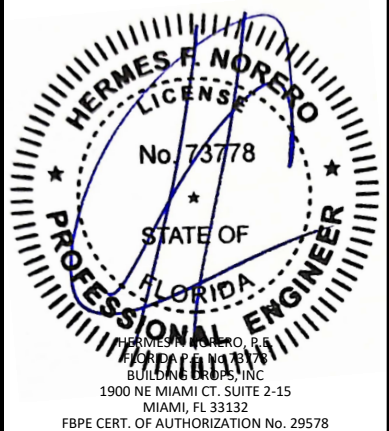
GLAZING DETAILS

PREPARED BY: BUILDING DROPS, INC.

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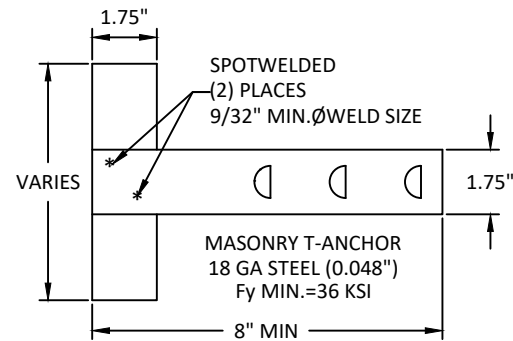
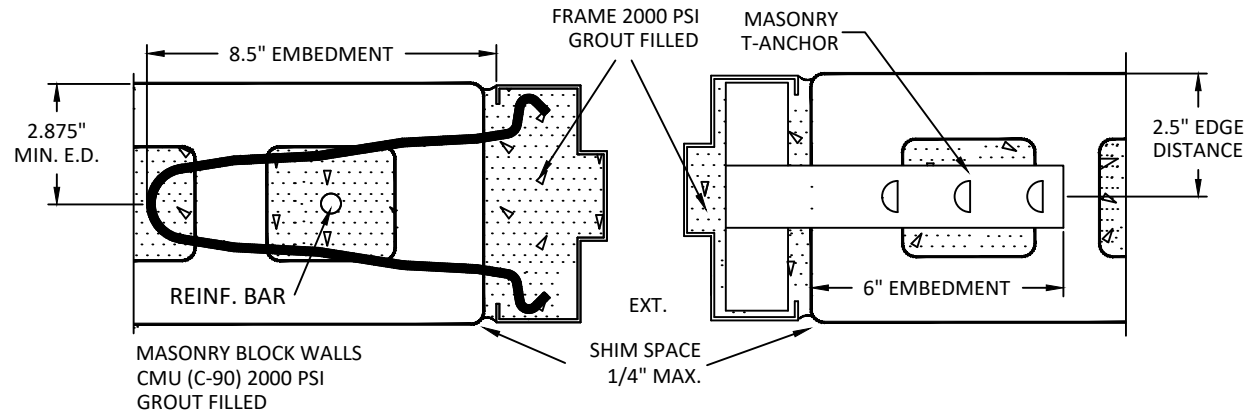
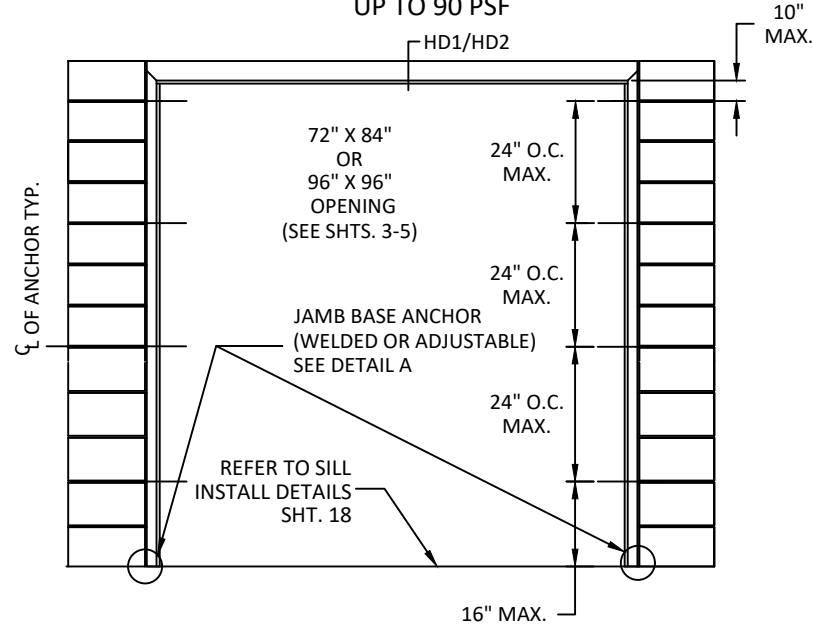
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DF 37

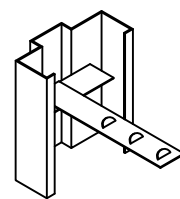
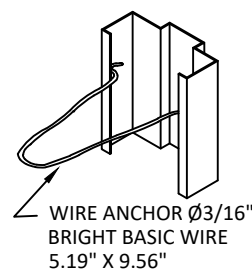
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**WIRE OR T MASONRY ANCHOR INTO
GROUT FILLED FRAME AND BLOCK WALL
UP TO 90 PSF**



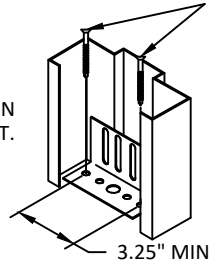
WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI
Fy MIN.=36 KSI

MASONRY
T-ANCHOR



DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)

2 1/2 MIN
EDGE DIST.

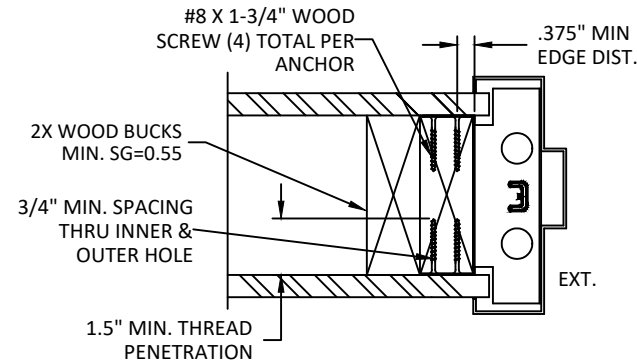
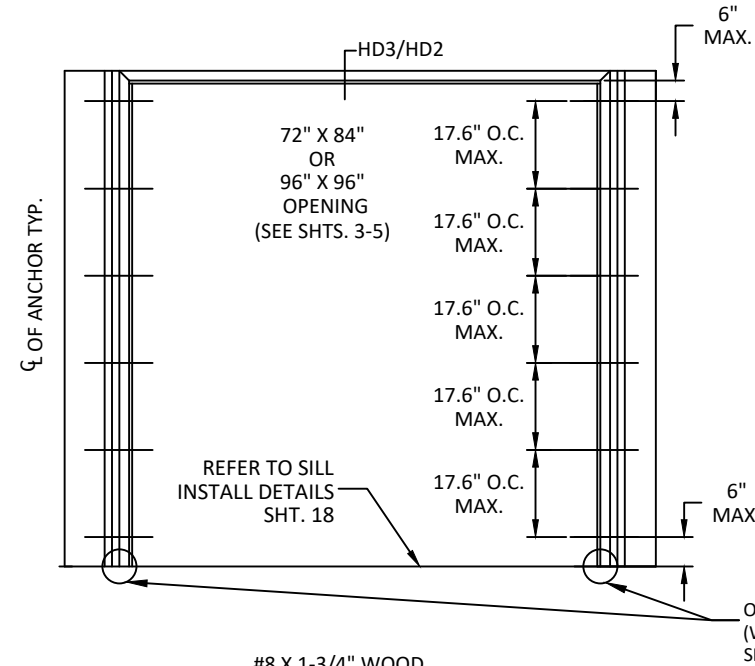


JAMB BASE ANCHOR INTO
CONCRETE (3 KSI MIN.)
Ø0.375\"/>

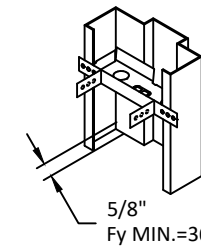
B2

**WOOD STUD ANCHOR
UP TO 90PSF**

SEE PAGE 32 FOR
OPTION 2 ANCHOR DETAILS

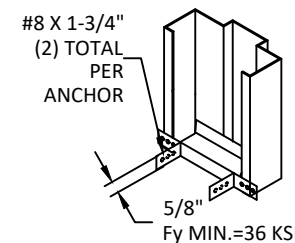


WOOD STUD OR UNIVERSAL ANCHOR
(LOCK-IN OR WELD-IN)



*WOOD STUD WALLS
SEE NOTE 1

DETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)



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 375#/FT. FOR ASSEMBLIES RATED @ 90 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.



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CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

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

PREPARED BY:
BUILDING DROPS, INC.

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MIAMI, FL 33132
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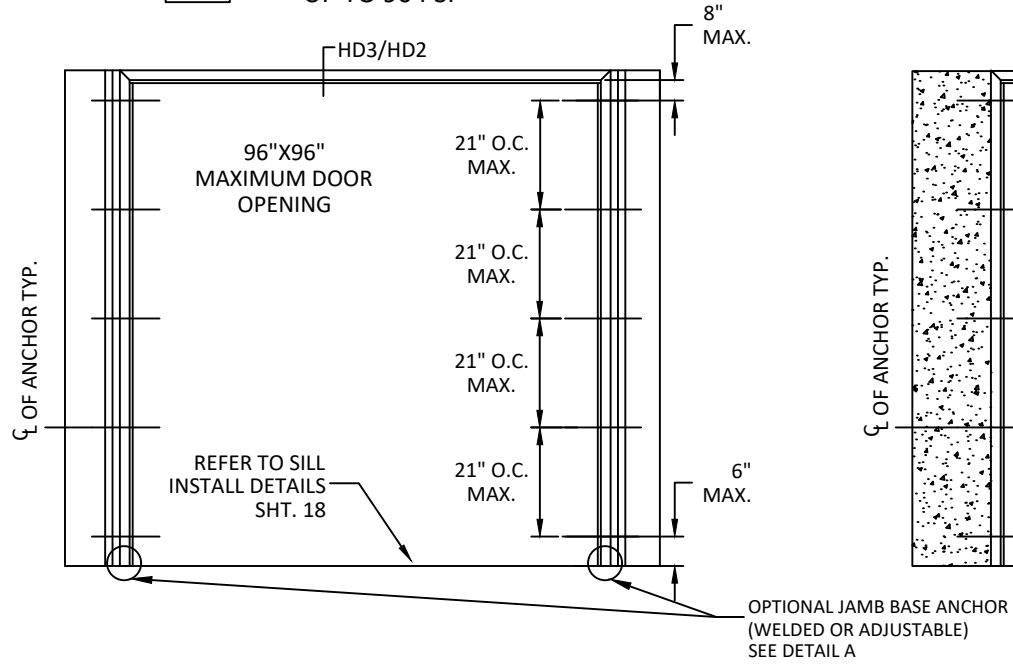
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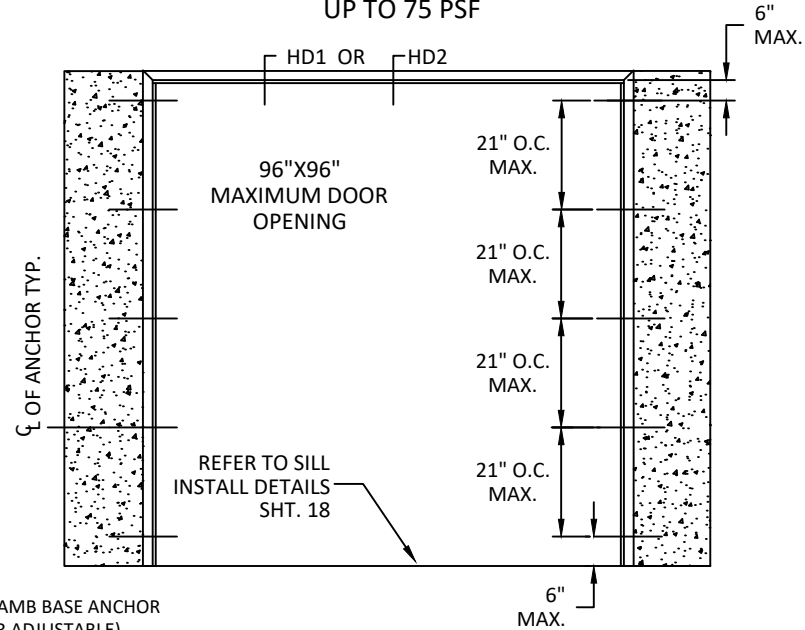
OF 37

SEE PAGE 33 FOR
OPTION 2 ANCHOR DETAILS

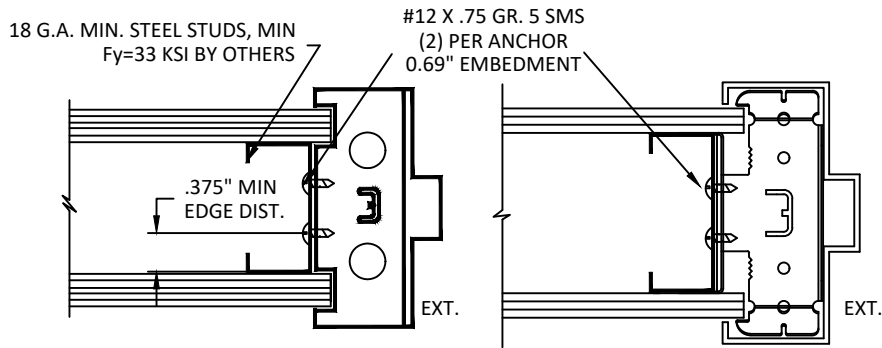
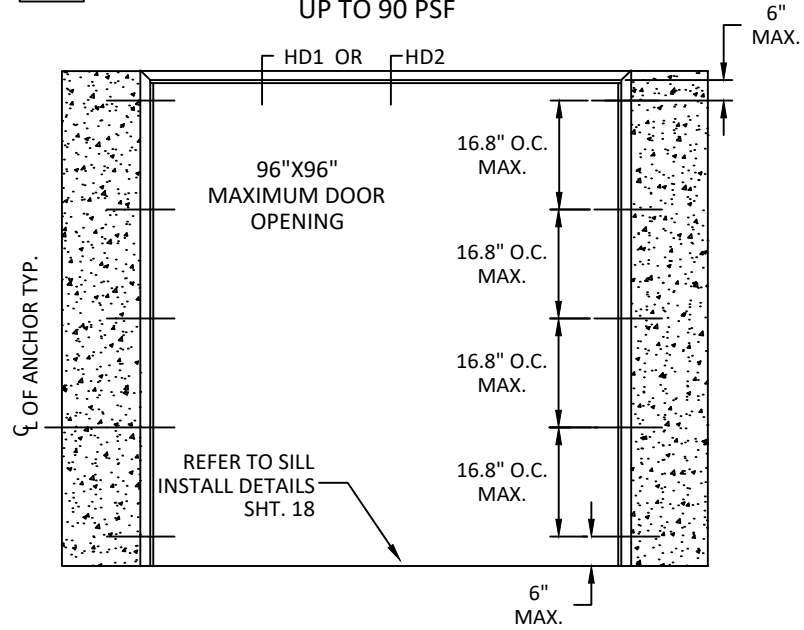
C2 STEEL STUD ANCHOR
UP TO 90 PSF



D EXISTING MASONRY ANCHOR (EMA) INTO
CONCRETE WALL OR CMU
UP TO 75 PSF



D2 EXISTING MASONRY ANCHOR (EMA) INTO
CONCRETE WALL OR CMU
UP TO 90 PSF

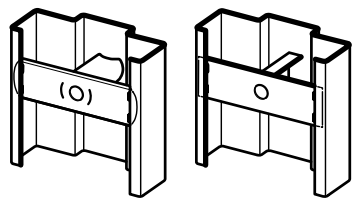
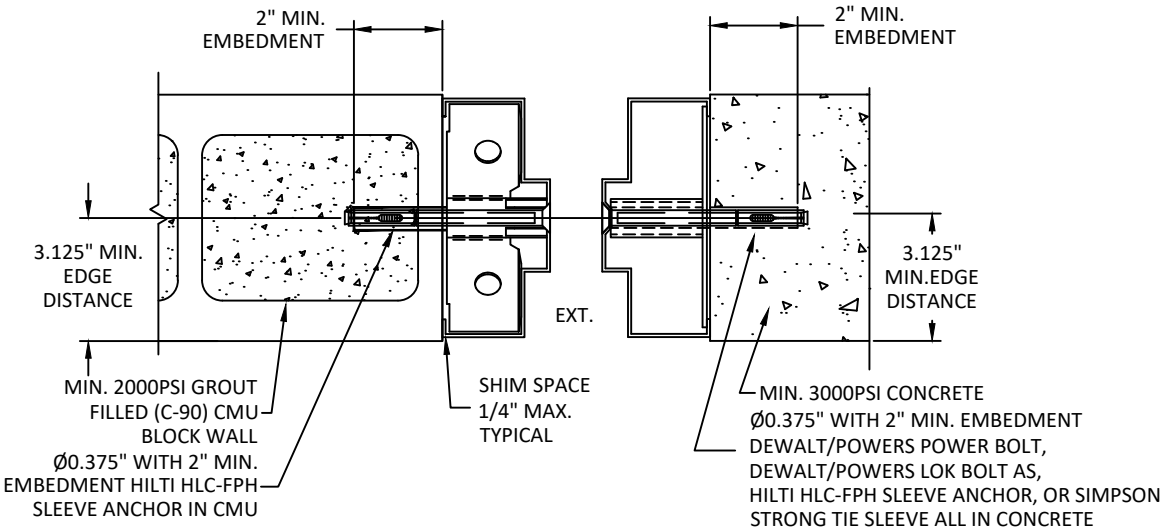


STEEL STUD ANCHOR
WELD-IN OR LOCK-IN

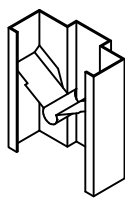
UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN

*STEEL STUD WALLS
SEE NOTE 1

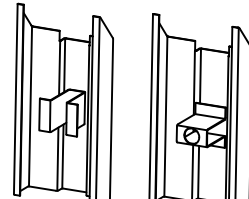
Fy MIN.=36 KSI



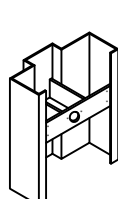
TUBE/CHANNEL &
PLATE BOLT-IN



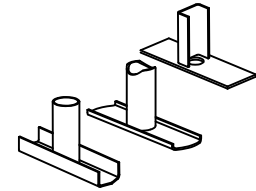
LOCK-IN



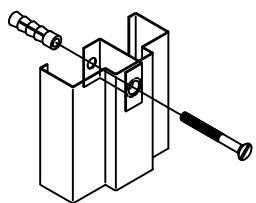
EMA-U ANCHOR



WELD-IN

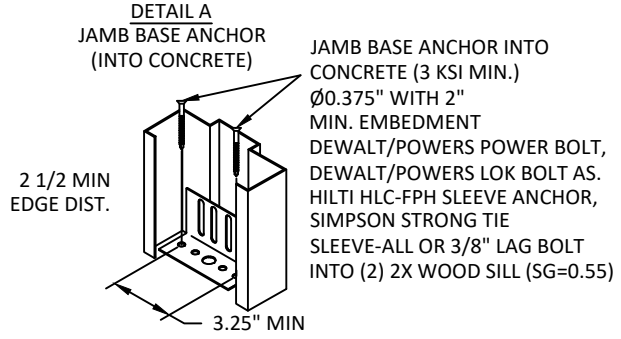


TUBE & PLATE
WELD-IN EMA
ANCHOR



EMA-U 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 375#/FT. FOR ASSEMBLIES RATED @ 90 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 DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

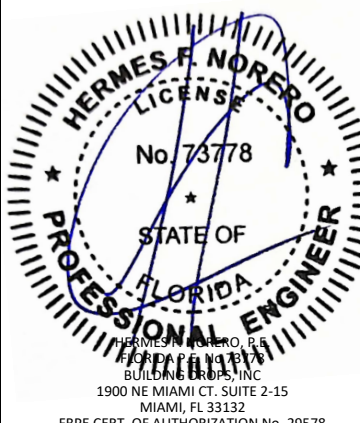
STEELCRAFT: ANCHORS - STEEL STUD
& EMA INTO CONCRETE WALL OR CMU

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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FL12400

DATE: 04.18.22

DWG. BY:
CPA

CHK. BY:
HFN

SCALE: NTS

DWG. #: IRGD07

SHEET:

14

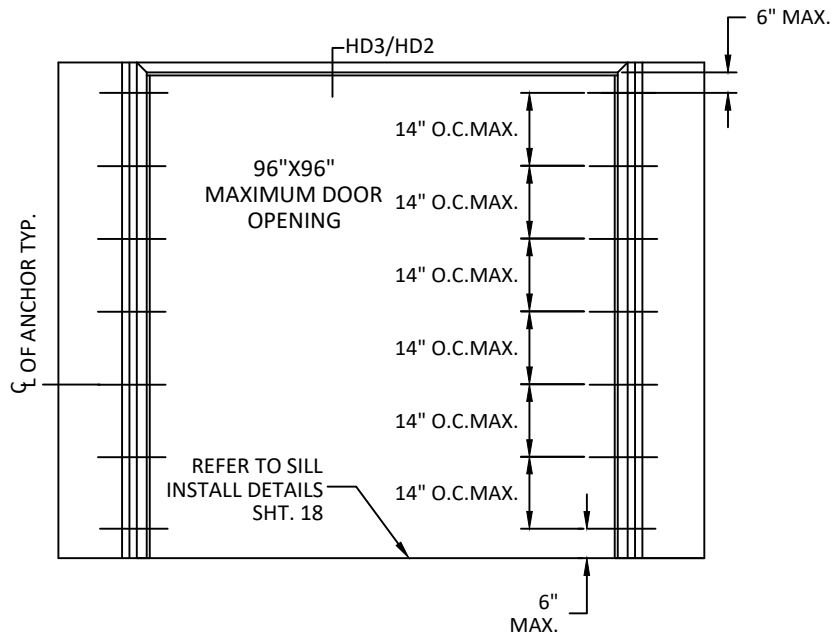
OF 37

SEE PAGE 34 FOR
OPTION 2 ANCHOR DETAILS

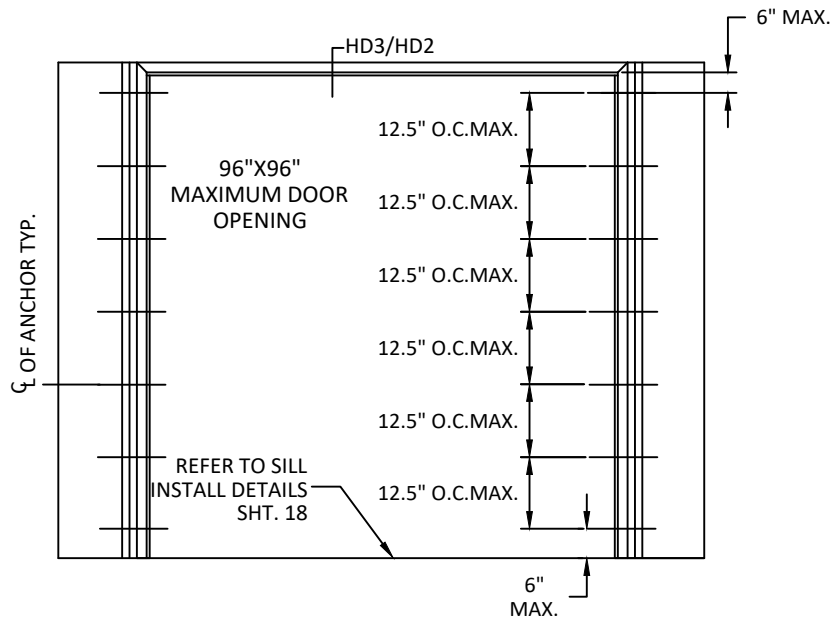


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

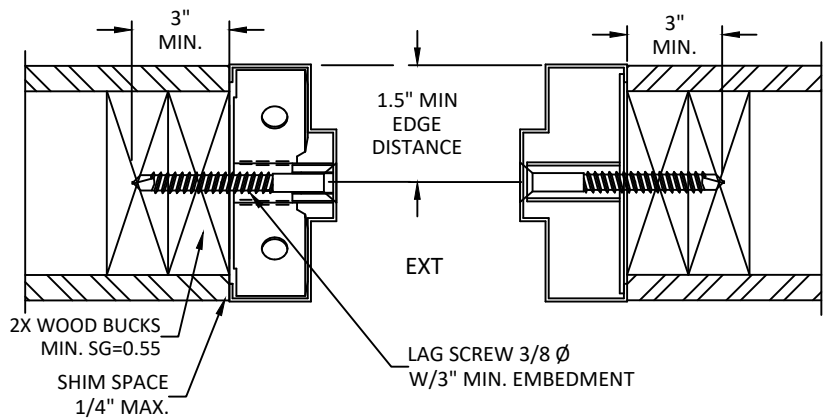
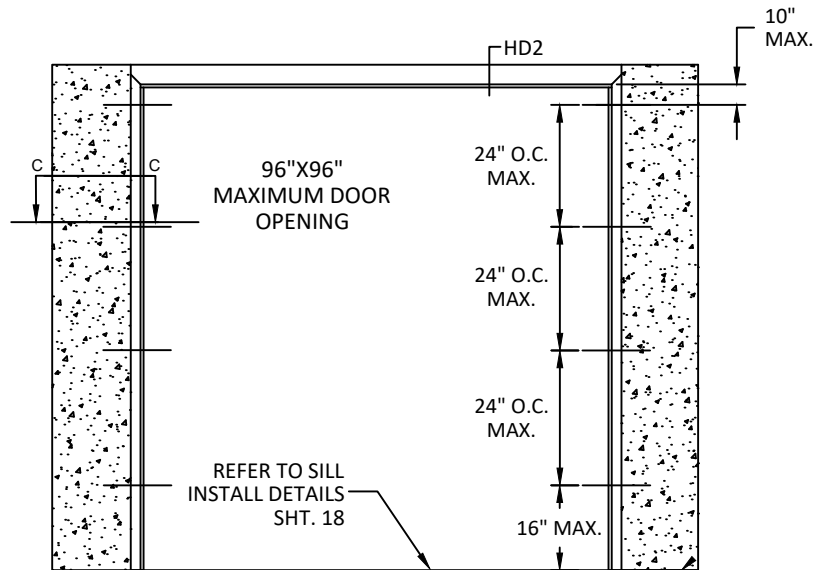
E EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL
UP TO 75 PSF



E2 EXISTING MASONRY ANCHOR (EMA) WITH LAG
BOLT INTO WOOD STUD WALL
UP TO 90 PSF

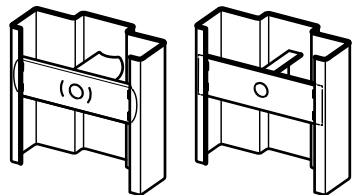
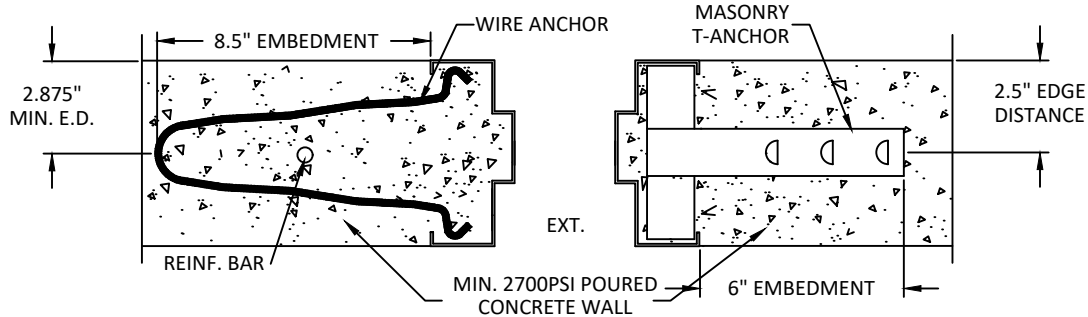


F2 POURED CONCRETE
TILT UP WALL
UP TO 90 PSF

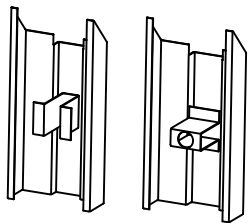


*WOOD STUD WALLS
SEE NOTE 1

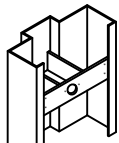
CROSS-SECTION C-C
POURED CONCRETE OPTION



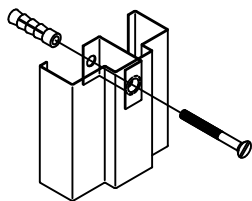
TUBE/CHANNEL &
PLATE BOLT-IN



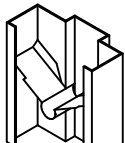
EMA-U ANCHOR



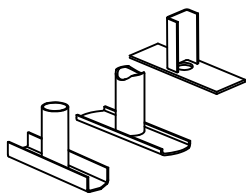
WELD-IN



EMA-U ANCHOR

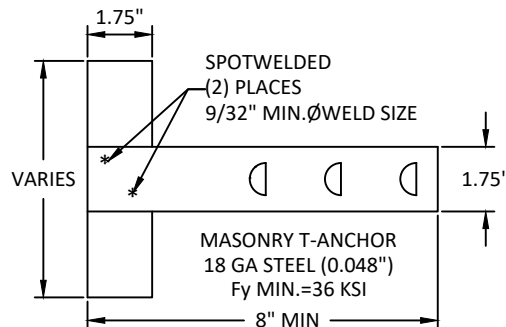
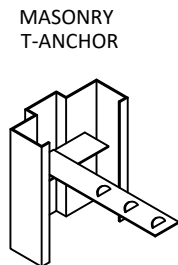
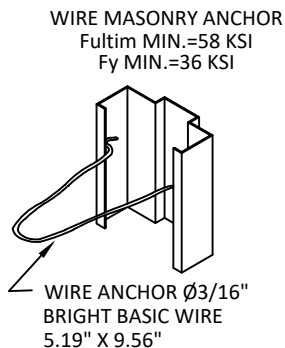


LOCK-IN



TUBE & PLATE
WELD-IN EMA
ANCHOR

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

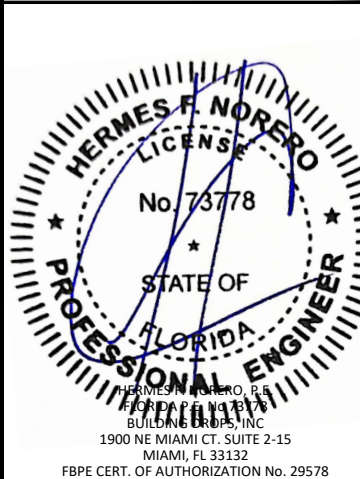


NOTES:
1. (*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @ 75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS 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.

TITLE: OUTSWING DOUBLE GLAZED
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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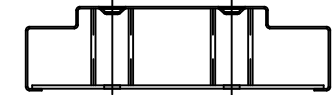


FL12400	
DATE: 04.18.22	
DWG. BY: CPA	CHK. BY: HFN
SCALE: NTS	
DWG. #: IRGD07	
SHEET: 15 OF 37	

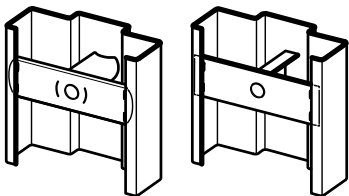
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FRAMES BOLTED TO BUILDING STRUCTURE
UP TO 90 PSF

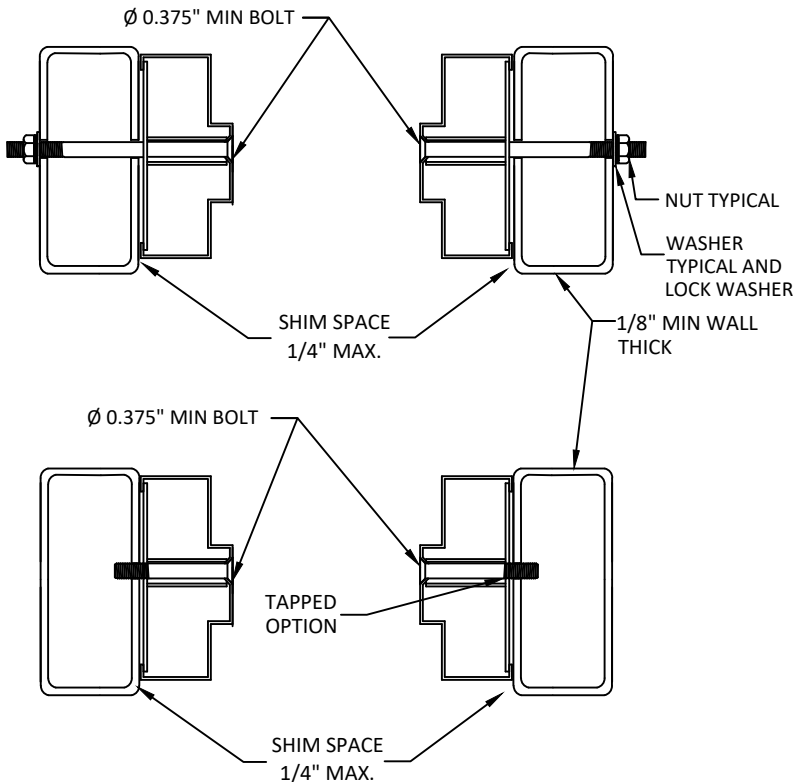
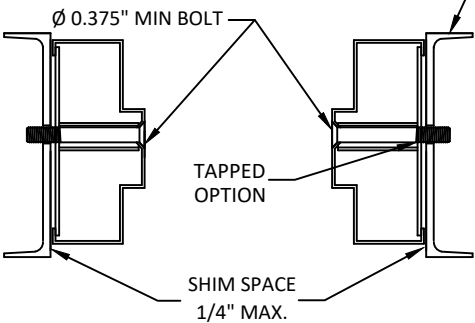
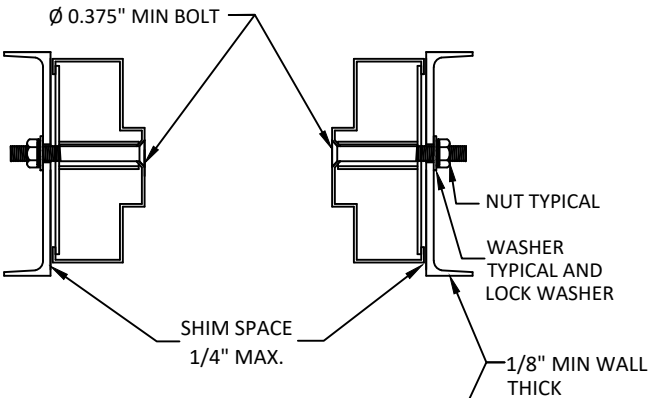
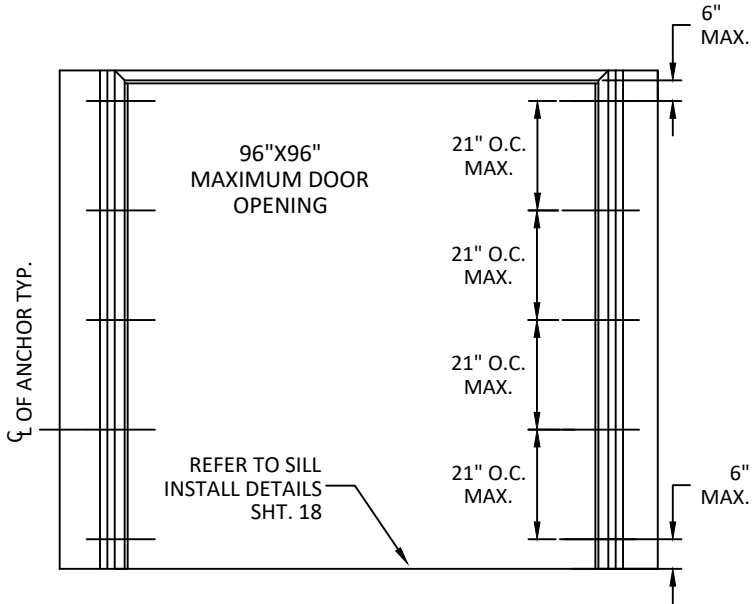
SEE PAGE 35 FOR
OPTION 2 ANCHOR DETAILS



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 ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR
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2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED
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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
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
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
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
FAX: (954)744-4738
WEB: www.buildingdrops.com



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MISC UPDATE	DI	12.09.25

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CPA

CHK. BY:
HFN

SCALE: NTS

DWG. #: IRGD07

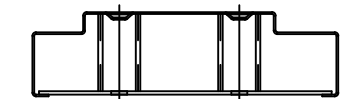
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16

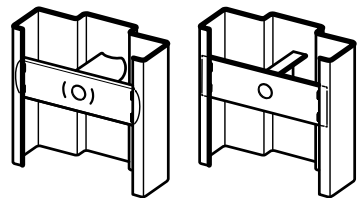
OF 37

H **WELDED ANCHOR**
SHIM OR STEEL BUILDING STRUCTURE
UP TO 90 PSF

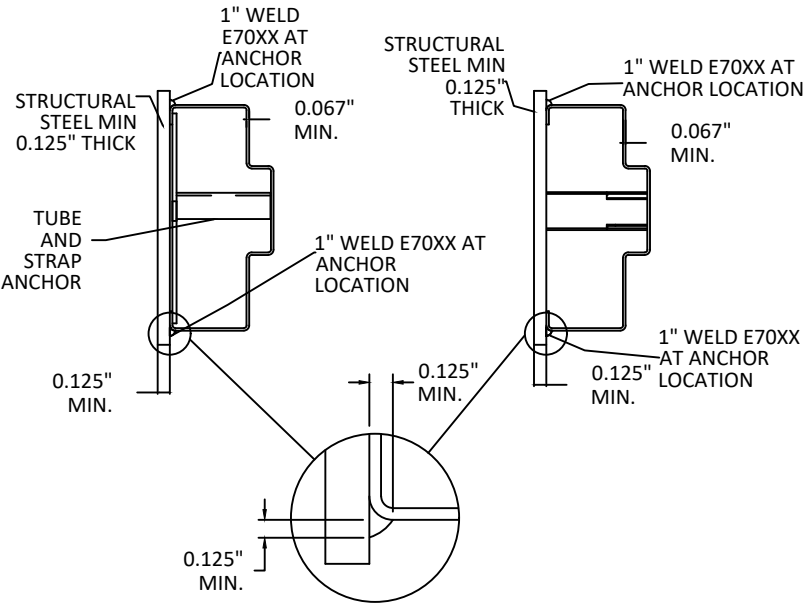
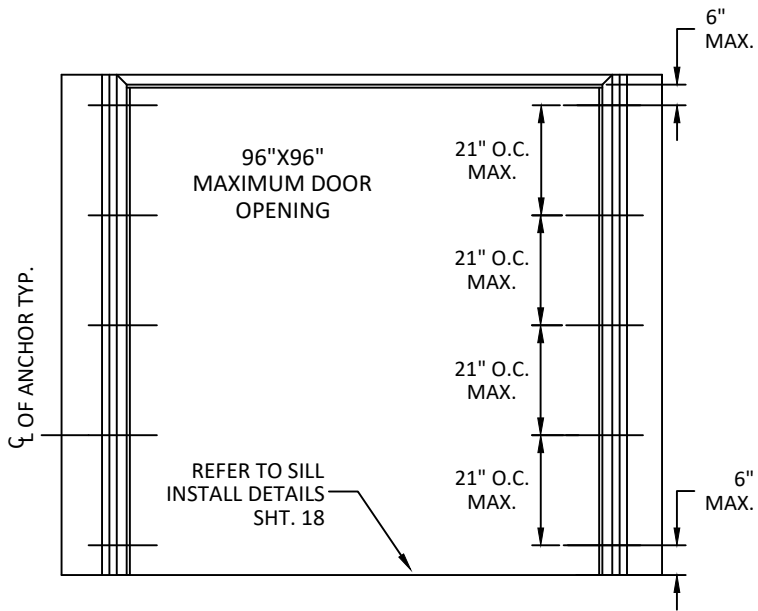
SEE PAGE 36 FOR
OPTION 2 ANCHOR DETAILS



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



TUBE/CHANNEL &
PLATE BOLT-IN



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 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

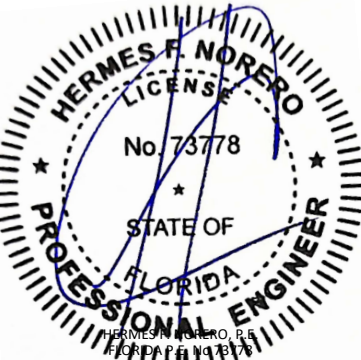
STEELCRAFT: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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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: 04.18.22

DWG. BY: CPA	CHK. BY: HFN
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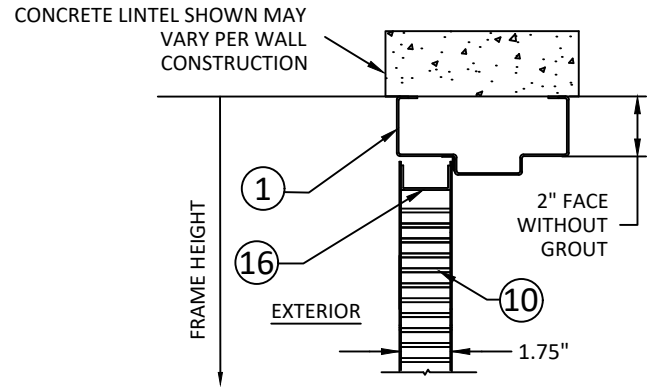
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DWG. #: IRGD07

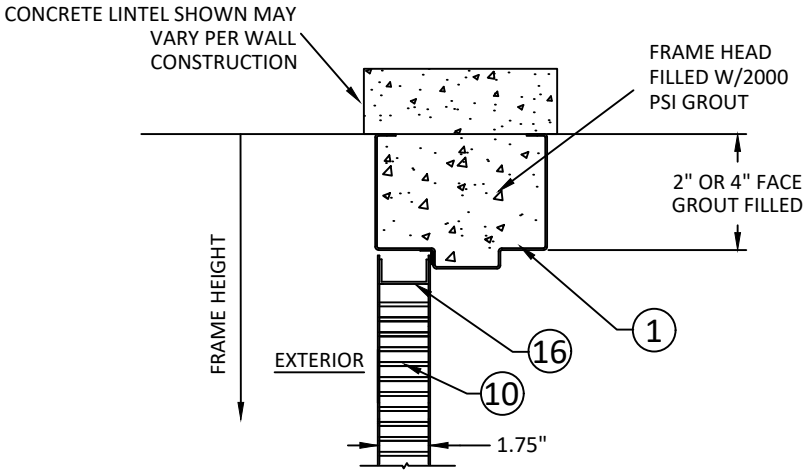
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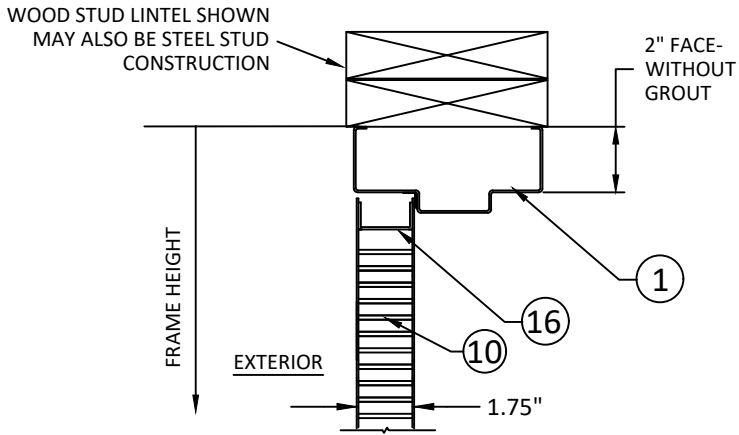
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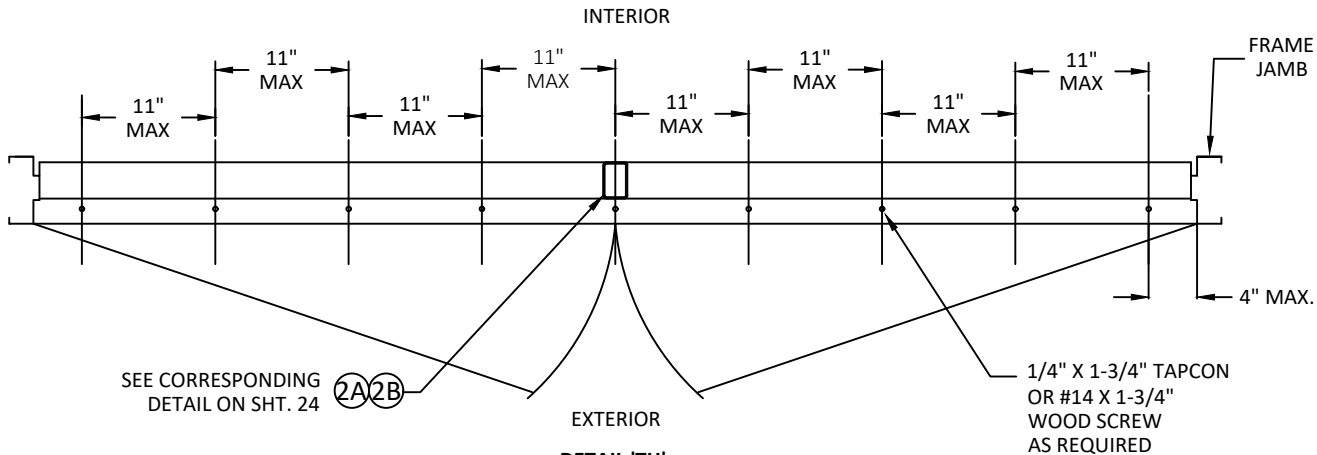
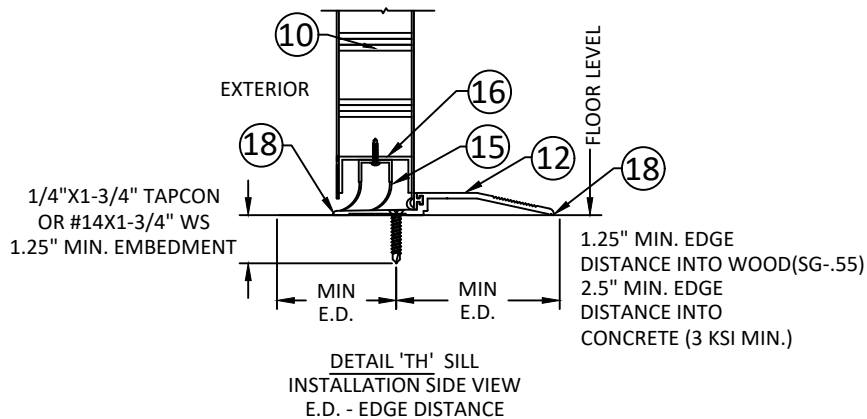
HD1 - FRAME HEAD SECTION



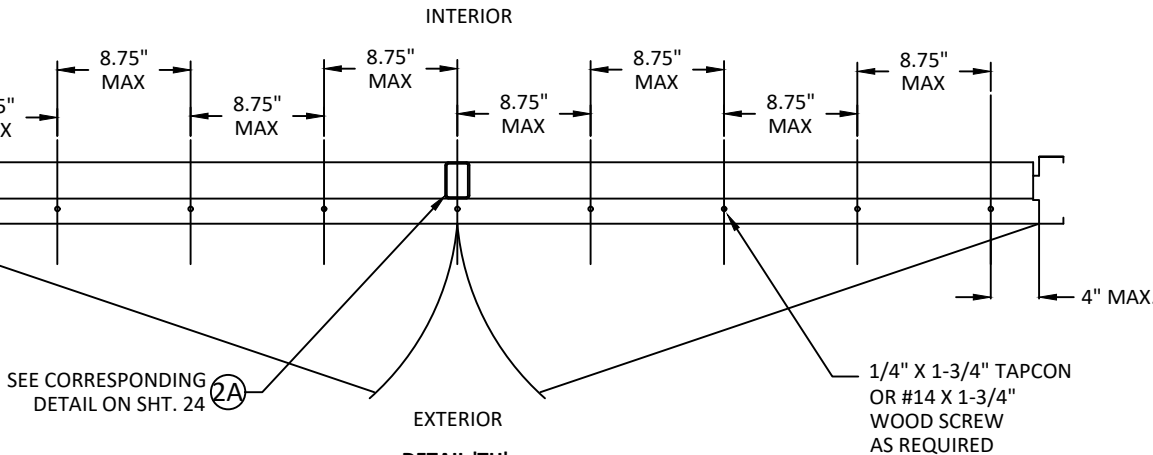
HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



DETAIL 'TH' SILL INSTALLATION DOUBLE OUTSWING DOORS UP TO 75 PSF ALSO SEE SHT. 37



DETAIL 'TH' SILL INSTALLATION DOUBLE OUTSWING DOORS UP TO 90 PSF ALSO SEE SHT. 37

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 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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SEE PAGE 37 FOR OPTION 2 ANCHOR DETAILS



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

TITLE: OUTSWING DOUBLE GLAZED
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. #: IRGD07

SHEET:

18

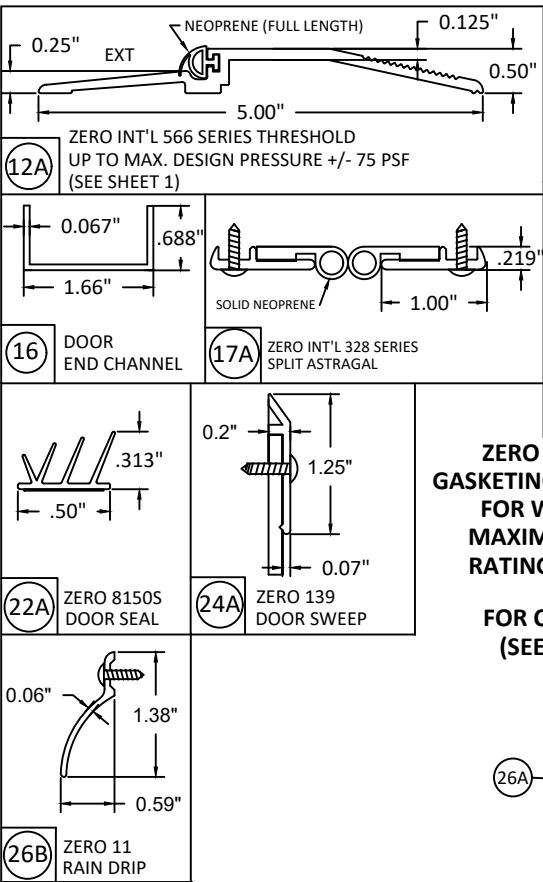
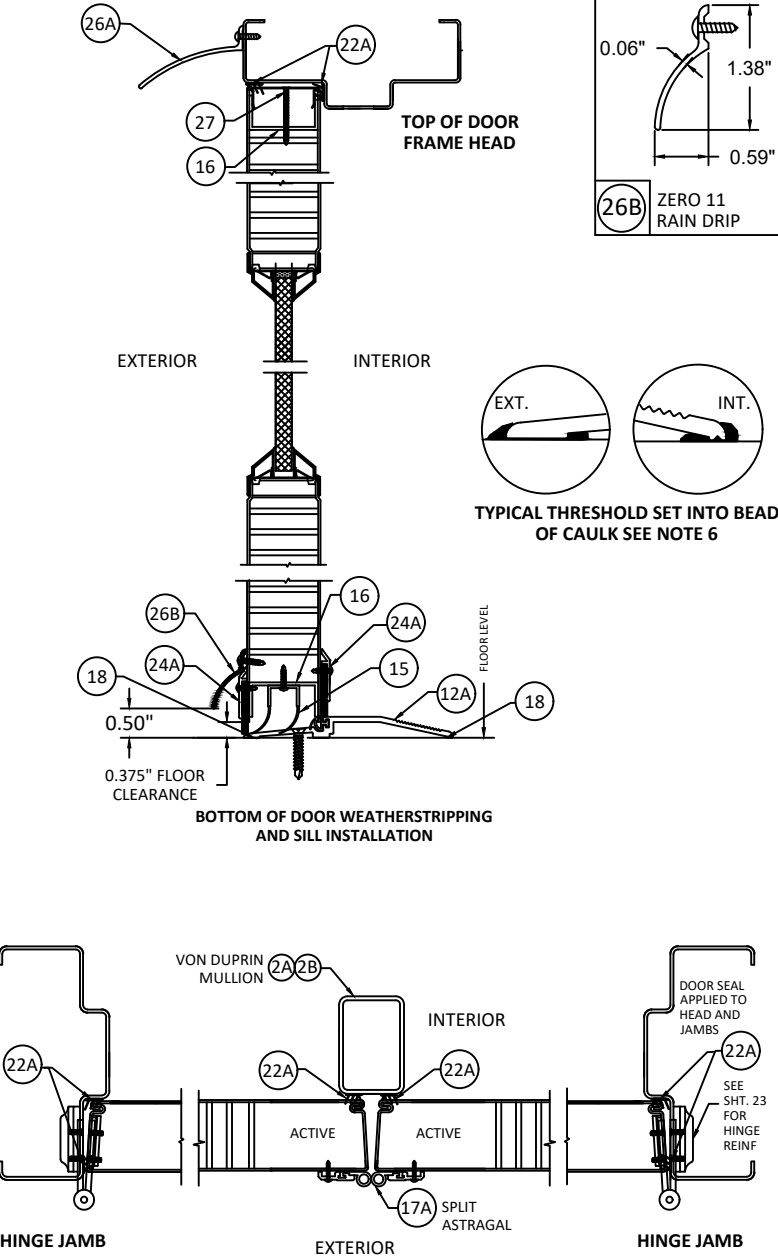
OF 37

TABLE 7.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12A	566 THRESHOLD	ZERO INT'L
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
17A	328 SPLIT ASTRAGAL	ZERO INT'L
22A	8150S DOOR SEAL	ZERO INT'L
24A	139 DOOR SWEEP	ZERO INT'L
26A	142 RAIN DRIP	ZERO INT'L
26B	11 RAIN DRIP	ZERO INT'L
27A	DOOR TOP CAP	STEELCRAFT
27B	FLUSH TOP CAP	STEELCRAFT

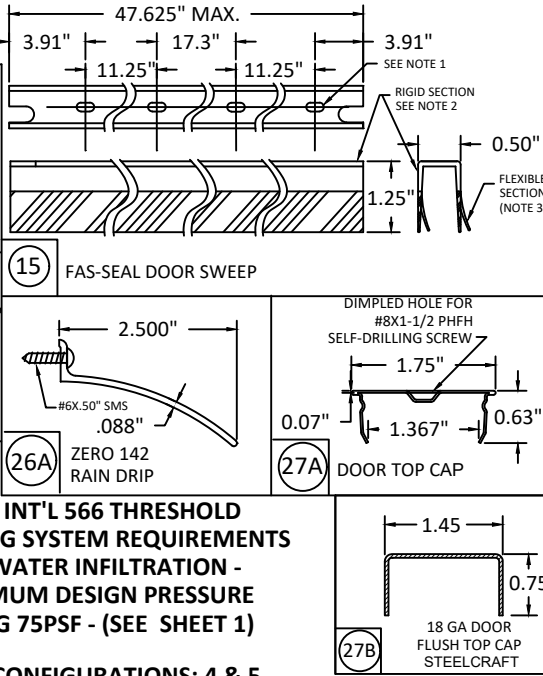
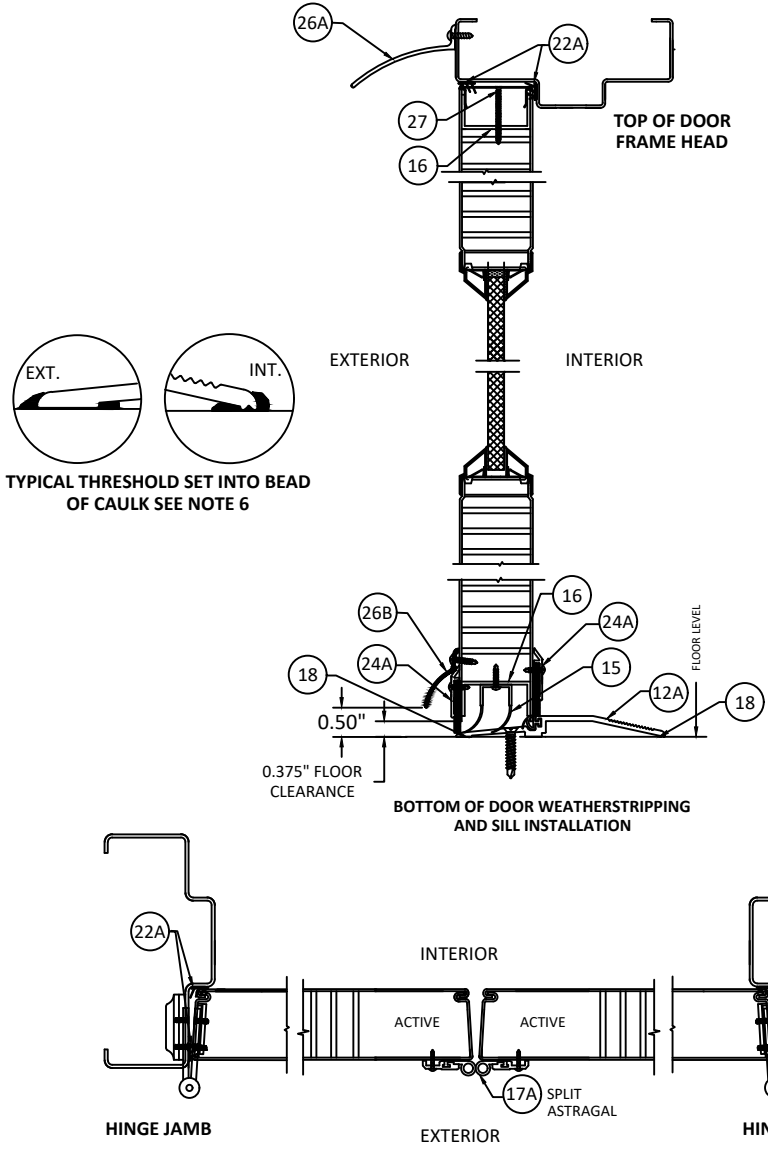
ZERO INT'L 566 THRESHOLD GASKETING SYSTEM
REQUIREMENTS FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE
SHEET 1)

FOR CONFIGURATIONS:
1, 2, 3A, 3B, 6 & 8
(SEE ELEVATIONS SHEET 3 & 4)



ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS
FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE SHEET 1)

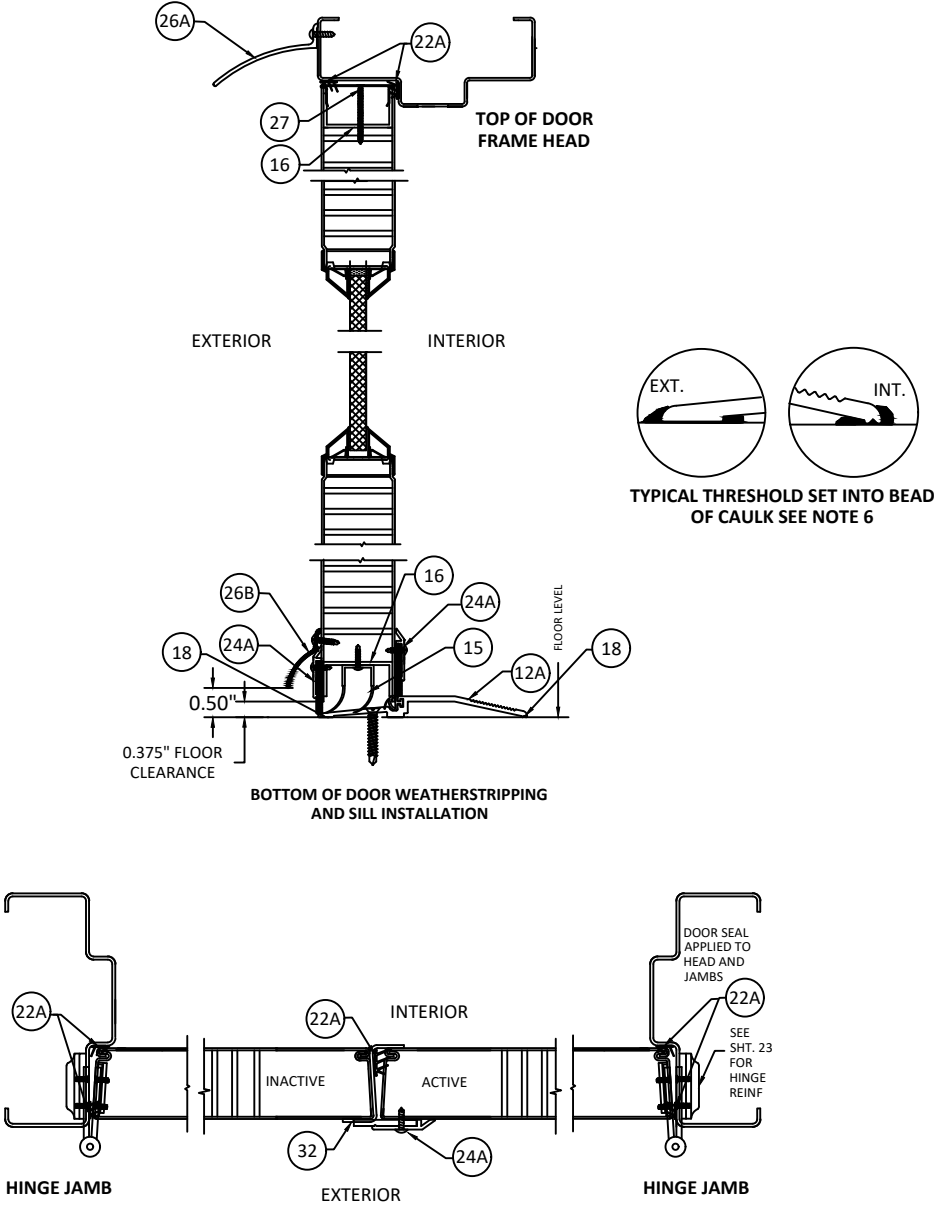
FOR CONFIGURATIONS: 4 & 5
(SEE ELEVATIONS SHEET 4)



- 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 (15) AND THRESHOLD (12) 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.

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM
REQUIREMENTS FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE
SHEET 1)

FOR CONFIGURATIONS: 10 & 11
(SEE ELEVATIONS SHEET 5)



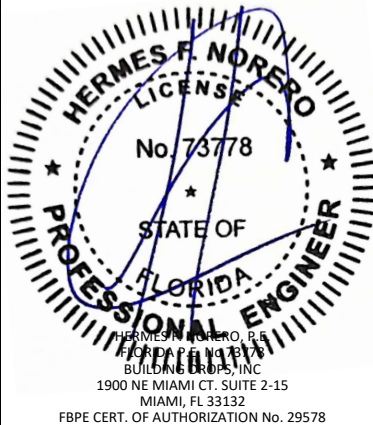
ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
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

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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DWG. BY: CPA	CHK. BY: HFN
SCALE: NTS	
DWG. #: IRGD07	
SHEET: 19 OF 37	

TABLE 7.2 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12A	566 THRESHOLD	ZERO INT'L
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
22B	188S DOOR SEAL	ZERO INT'L
24A	139 DOOR SWEEP	ZERO INT'L
24B	328 DOOR SWEEP	ZERO INT'L
25A	475 ADJUSTABLE SEAL	ZERO INT'L
26A	142 RAIN DRIP	ZERO INT'L
26B	11 RAIN DRIP	ZERO INT'L
27A	DOOR TOP CAP	STEELCRAFT
27B	FLUSH TOP CAP	STEELCRAFT

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM
REQUIREMENTS FOR WATER INFILTRATION -
MAXIMUM DESIGN PRESSURE RATING 75PSF - (SEE
ELEVATIONS SHEET 4 & 5)
FOR CONFIGURATIONS: 7 & 9
(SEE ELEVATIONS SHEET 4 & 5)

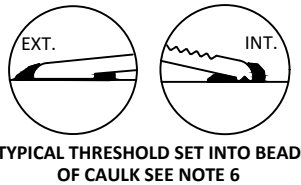
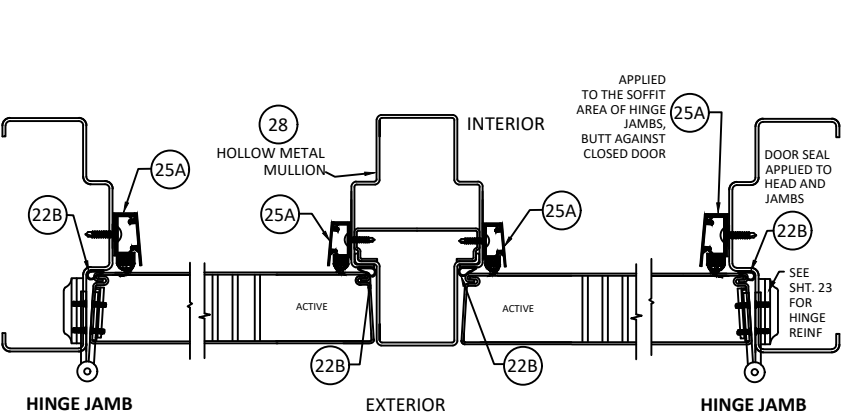
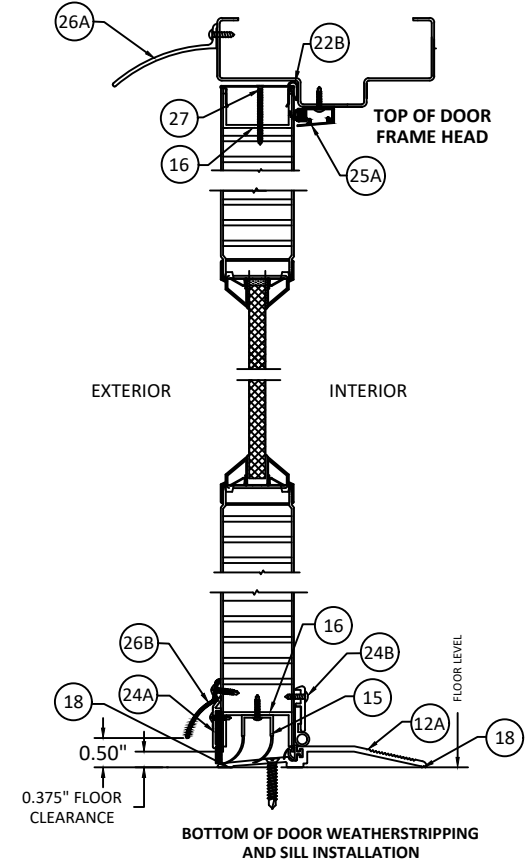
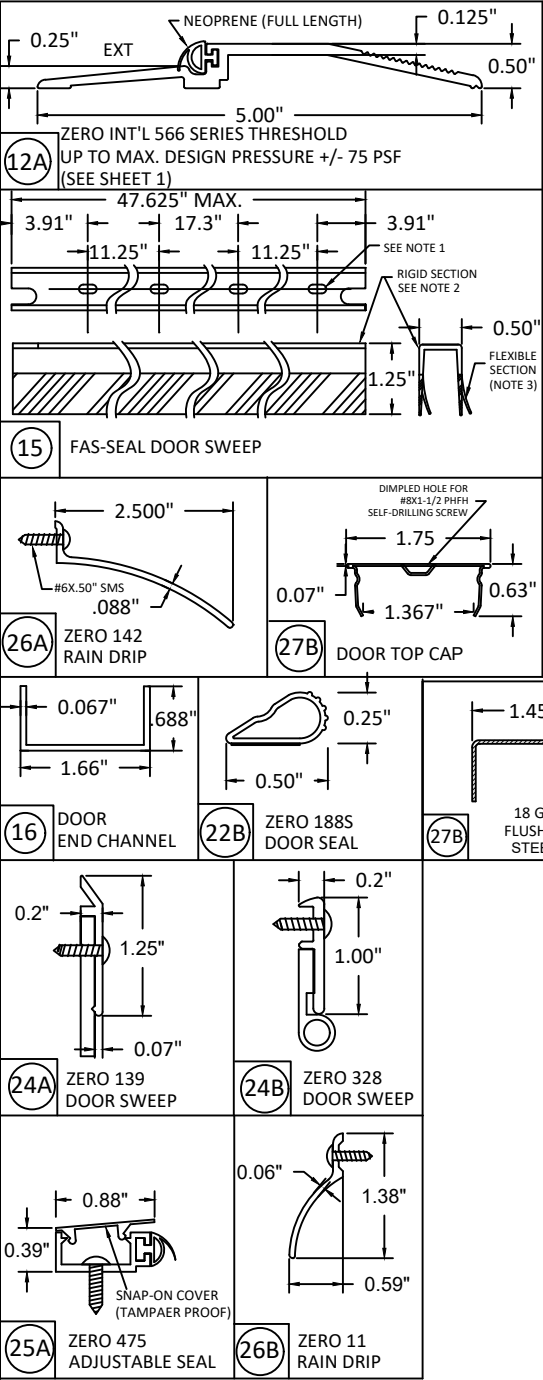
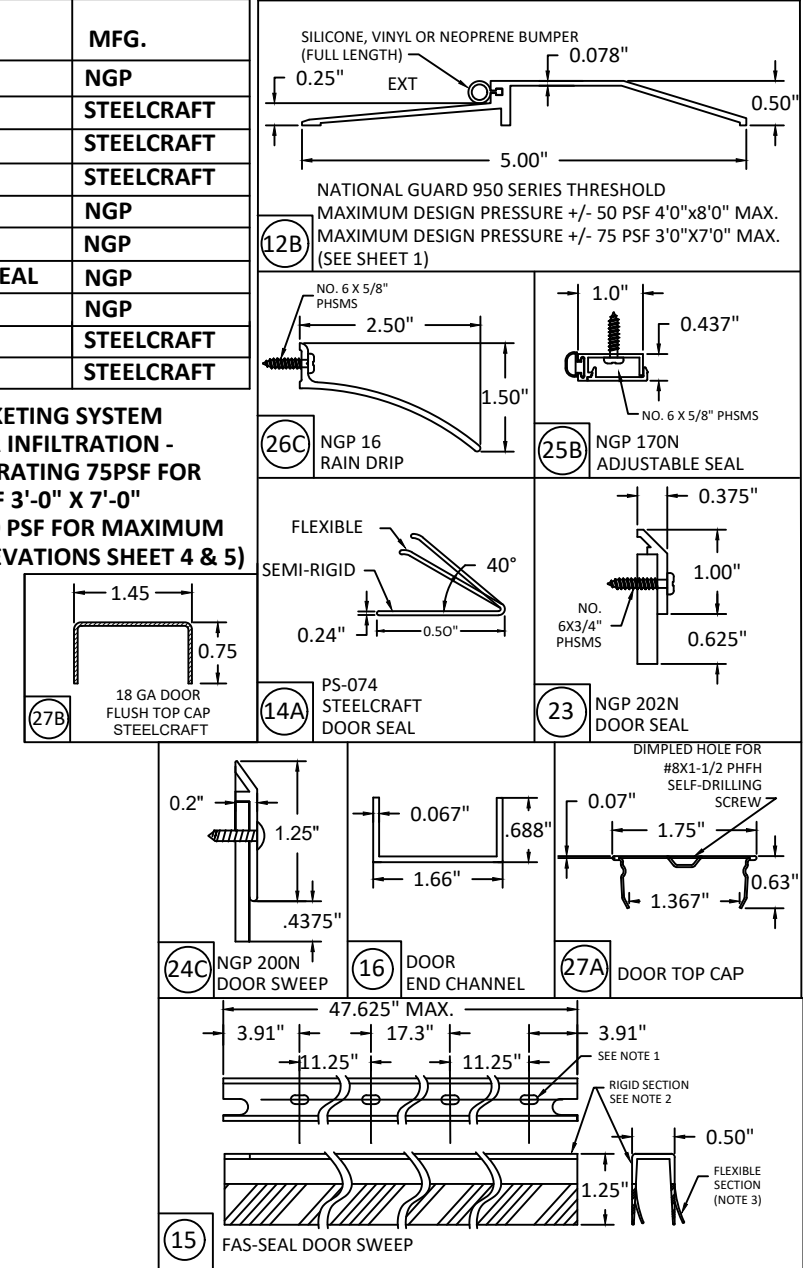
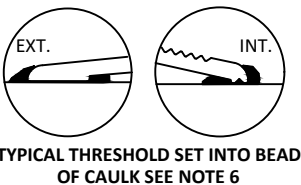
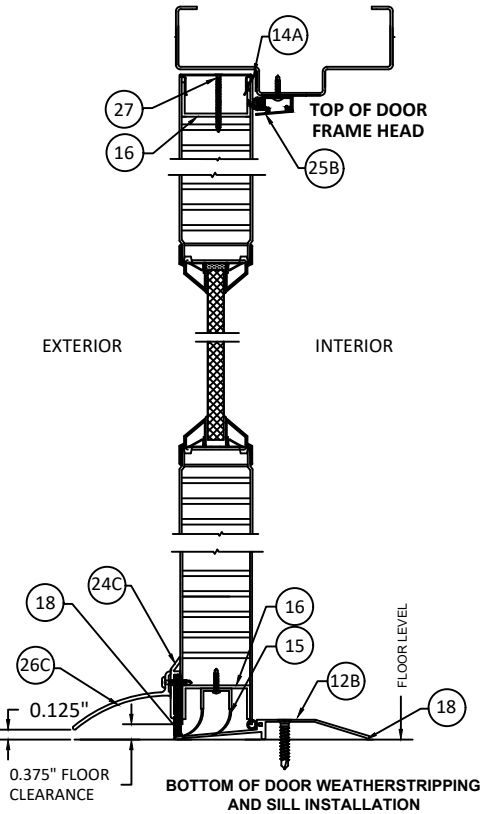


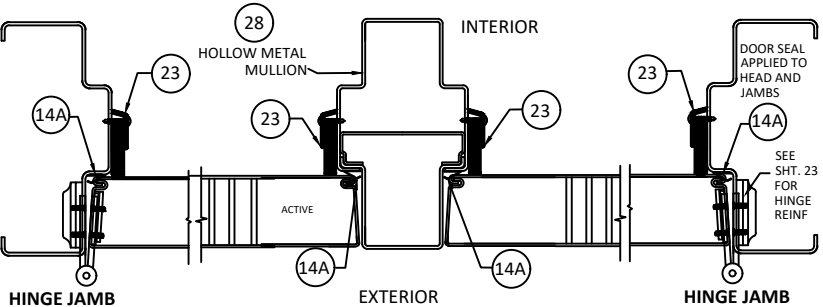
TABLE 7.3 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12B	950 THRESHOLD	NGP
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
14A	PS074 DOOR SEAL	STEELCRAFT
23	202N DOOR SEAL	NGP
24C	200N DOOR SWEEP	NGP
25B	170N ADJUSTABLE SEAL	NGP
26C	16A RAIN DRIP	NGP
27A	DOOR TOP CAP	STEELCRAFT
27B	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 4 & 5)
FOR CONFIGURATIONS: 7 & 9
(SEE ELEVATIONS SHEET 4 & 5)



- 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 (15) AND THRESHOLD (12) 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.



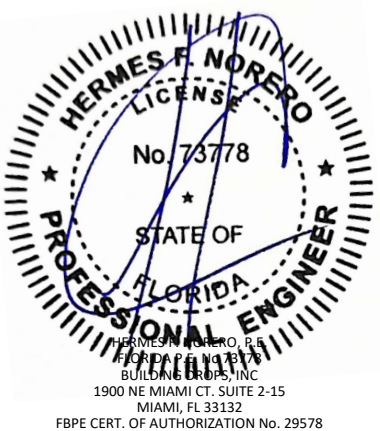
ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
GASKETING DETAILS FOR
WATER INFILTRATION CONT.

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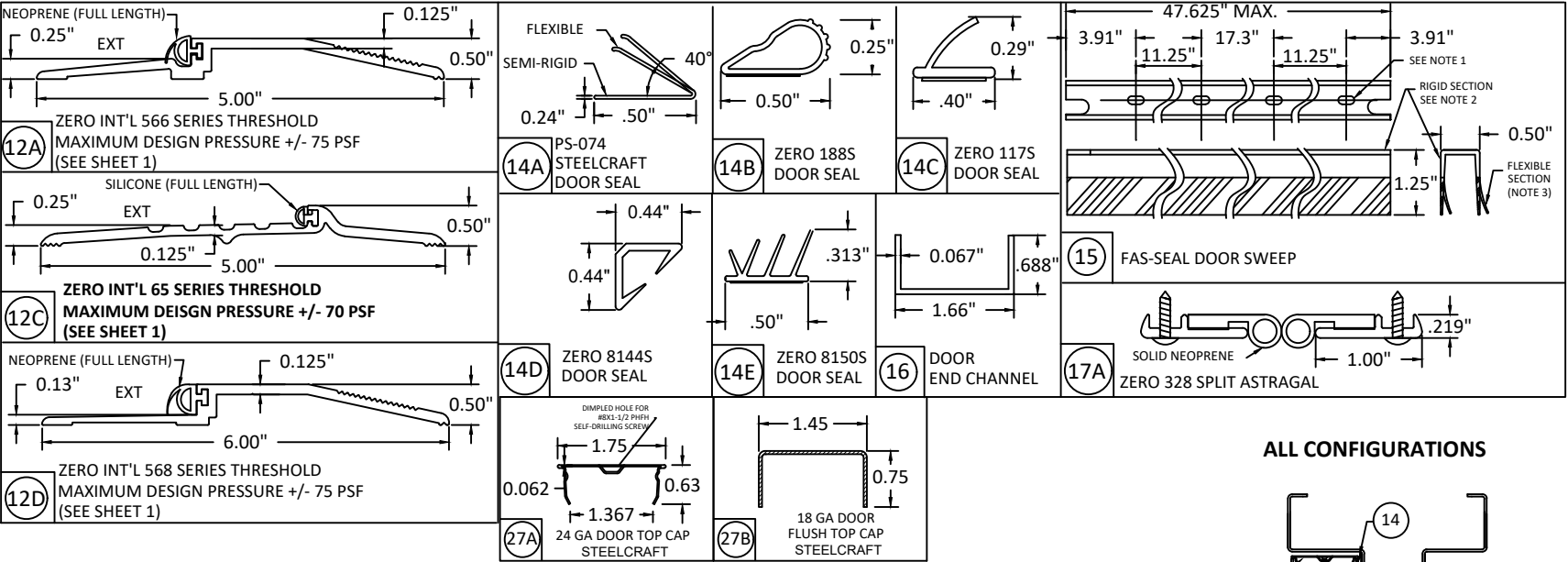


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DWG. BY: CPA	CHK. BY: HFN
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DWG. #: IRGD07	
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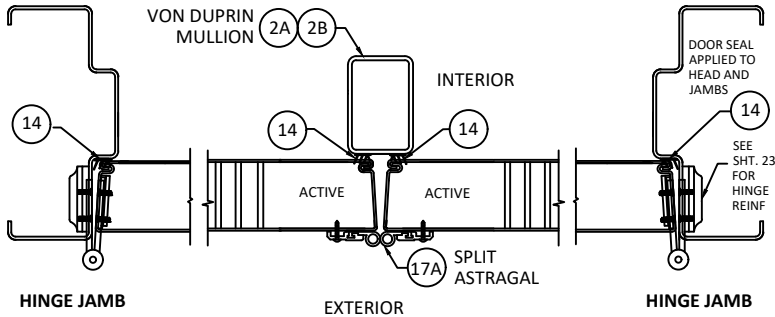
TABLE 8.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12	12A 566 THRESHOLD	ZERO INT'L
	12C 65 THRESHOLD	ZERO INT'L
	12D 568 THRESHOLD	ZERO INT'L
14	14A PS074 DOOR SEAL	STEELCRAFT
	14B 188S DOOR SEAL	ZERO INT'L
	14C 117S DOOR SEAL	ZERO INT'L
	14D 8144S DOOR SEAL	ZERO INT'L
	14E 8150S DOOR SEAL	ZERO INT'L
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
17A	328 SPLIT ASTRAGAL	ZERO INT'L
27A	TOP CAP	STEELCRAFT
27B	FLUSH TOP CAP	STEELCRAFT

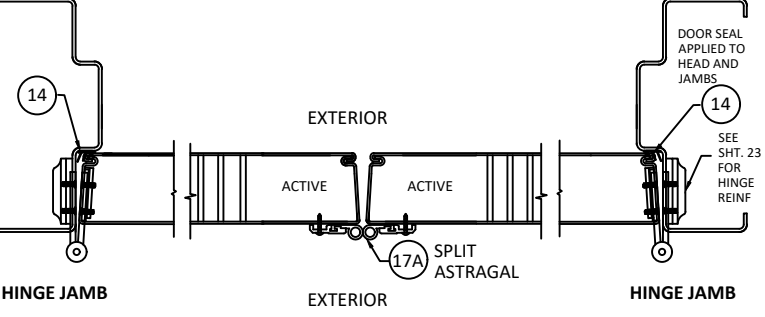
ZERO INT'L 566 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 75PSF - ZERO INT'L 65 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 70PSF
MAXIMUM DOOR SIZE 4'-0" X 8'-0" (SEE SHEET 1) .



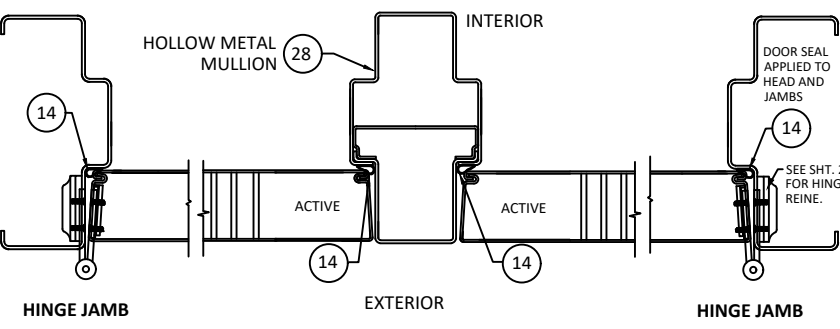
FOR CONFIGURATIONS: 1, 2, 3A, 3B, 6 & 8 (SEE ELEVATIONS SHEET 3, 4 & 5)



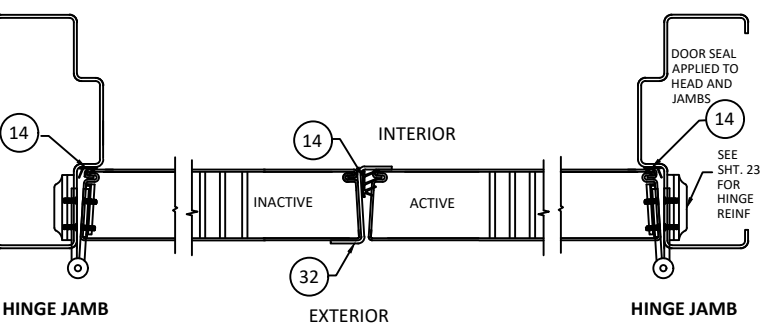
FOR CONFIGURATIONS: 4 & 5 (SEE ELEVATIONS SHEET 4)



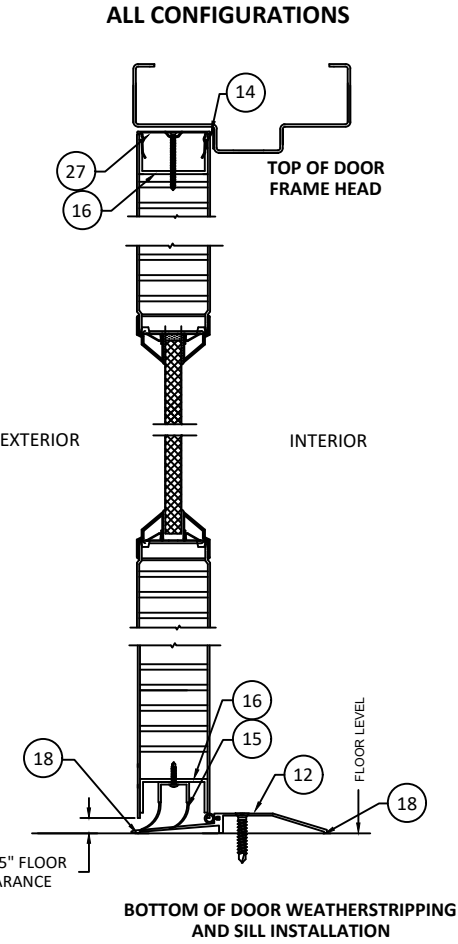
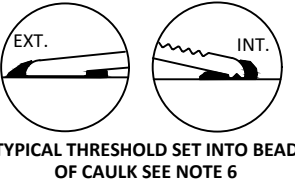
FOR CONFIGURATIONS: 7 & 9 (SEE ELEVATIONS SHEET 4 & 5)



FOR CONFIGURATIONS: 10 & 11 (SEE ELEVATIONS SHEET 5)



- 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. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (15), DOOR SEAL (14A, 14B, 14C, 14D & 14E) AND THRESHOLD (12A, 12C & 12D) 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 INSTALLATIONS REQUIRE DOOR SEAL (14A, 14B, 14C, 14D & 14E) AND THRESHOLD (12A, 12C & 12D) AS APPLICABLE.
 8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.





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

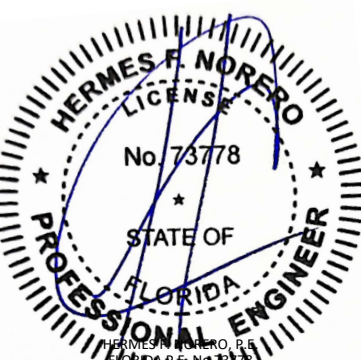
TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
GASKETING DETAILS FOR
NO WATER INFILTRATION

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
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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

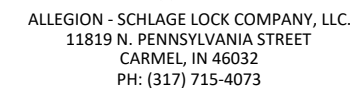
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DWG. BY: CPA	CHK. BY: HFN
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SCALE: NTS

DWG. #: IRGD07

SHEET: 21 OF 37



ITEM NUMBER	MODEL NO./ DESCRIPTION	MFG.
12B	950 THRESHOLD	NGP
14A	PS074 DOOR SEAL	STEELCRAFT
15	FAS-SEAL SWEEP	STEELCRAFT
16	END CHANNEL	STEELCRAFT
17B	137 SPLIT ASTRAGAL	NGP
27A	TOP CAP	STEELCRAFT
27B	FLUSH TOP CAP	STEELCRAFT

12B SILICONE, VINYL OR NEOPRENE BUMPER (FULL LENGTH)
 0.25" EXT 0.078" 5.00" 0.50"

14A PS-074 STEELCRAFT DOOR SEAL
 FLEXIBLE SEMI-RIGID 40° 0.24" .50"

16 DOOR END CHANNEL
 0.067" .688" 1.66"

15 FAS-SEAL DOOR SWEEP
 47.625" MAX. 3.91" 11.25" 17.3" 11.25" 3.91" SEE NOTE 1
 RIGID SECTION SEE NOTE 2 0.50" 1.25" FLEXIBLE SECTION (NOTE 3)

17B NGP 137 SPLIT ASTRAGAL
 NEOPRENE OR SILICONE 0.875" 0.31"

27A 24 GA DOOR TOP CAP STEELCRAFT
 DIMPLED HOLE FOR #BX1-1/2 PHH SELF-DRILLING SCREW 1.75 0.062 0.63 1.367

27B 18 GA DOOR FLUSH TOP CAP STEELCRAFT
 1.45 0.75

VON DUPRIN MULLION

2A 2B

INTERIOR

14A

ACTIVE

ACTIVE

17B SPLIT ASTRAGAL

DOOR SEAL APPLIED TO HEAD AND JAMBS

14A

SEE SHIT. FOR HINGE REIN.

HINGE JAMB

EXTERIOR

HINGE JAMB

Diagram illustrating the components of a split astragal door assembly:

- HINGE JAMB** (Left side)
- INTERIOR** (Left panel)
- ACTIVE** (Middle panel)
- EXTERIOR** (Right panel)
- ACTIVE** (Right panel)
- HINGE JAMB** (Right side)
- DOOR SEAL APPLIED TO HEAD AND JAMBS** (Top right)
- SEE SHT. FOR HINGE REIN.** (Bottom right)
- SPLIT ASTRAGAL** (Bottom center)

HINGE JAMB

ACTIVE

EXTERIOR

INTERIOR

HOLLOW METAL MULLION

14A

28

DOOR SEAL APPLIED TO HEAD AND JAMBS

SEE SHT. 2 FOR HINGE REINF.

Diagram illustrating the hinge assembly and door seal application. The diagram shows a cross-section of a door frame and door. Key components labeled include:

- HINGE JAMB**: The vertical part of the door frame.
- HINGE**: The assembly connecting the door to the jamb, labeled with **14A** and **32**.
- DOOR SEAL APPLIED TO HEAD AND JAMBS**: The seal at the top and sides of the door frame.
- SEE SHT. FOR HINGE REIN.**: Reference to another sheet for hinge reinforcement details.
- INTERIOR** and **EXTERIOR**: Labels indicating the inside and outside of the door.
- INACTIVE** and **ACTIVE**: Labels indicating the status of the door seal.

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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. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (15), DOOR SEAL (14A) AND THRESHOLD (12B) 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 INSTALLATIONS REQUIRE DOOR SEAL (14A) AND THRESHOLD (12B) AS APPLICABLE.
8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE.



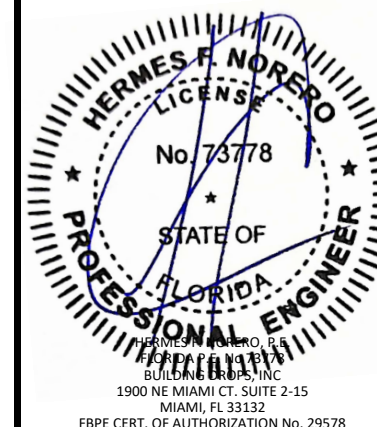
**GASKETING DETAILS FOR
NO WATER INFILTRATION CONT.**

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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.2
MPP/ANCHOR UPDATE	SH	06.14.2
LOCK UPDATE	JA	09.09.2
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DATE: 04.18.22

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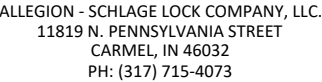
SCALE: NTS

DWG. #: IRGD07

SHEET:

22

OF 37



TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

HINGES, THRESHOLDS, CHANNELS, & STRIKE REINFORCEMENTS

PREPARED BY:  BLUE DIAMOND FOODS, INC.

1900 NE MIAMI CT. SUITE 2-15
MIAMI, FL 33133

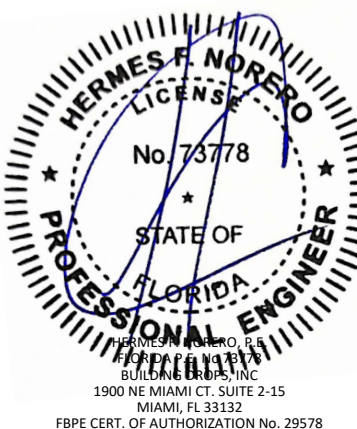
MIAMI, FL 33132
PH: (954)399-8478

FAX: (954)744.4738



REMARKS	BY	DATE
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DWG. BY:
CPA

CHK. BY:
HFN

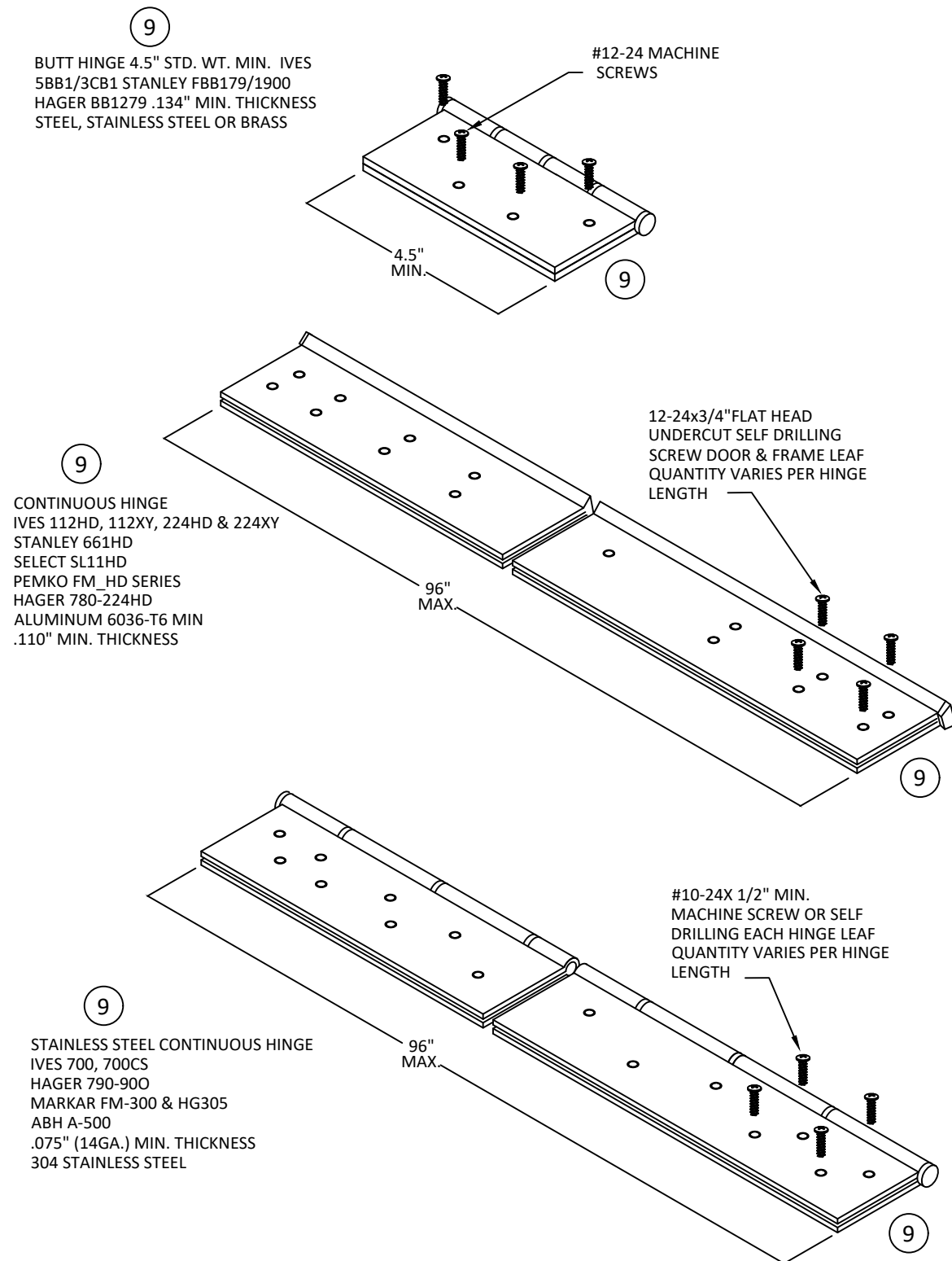
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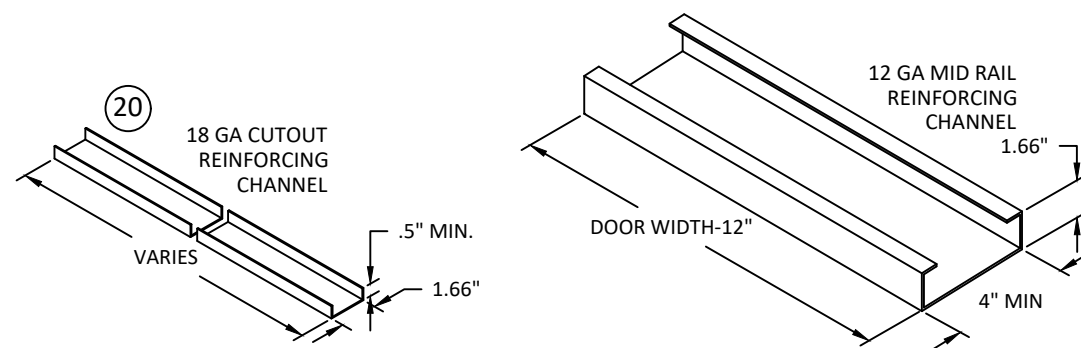
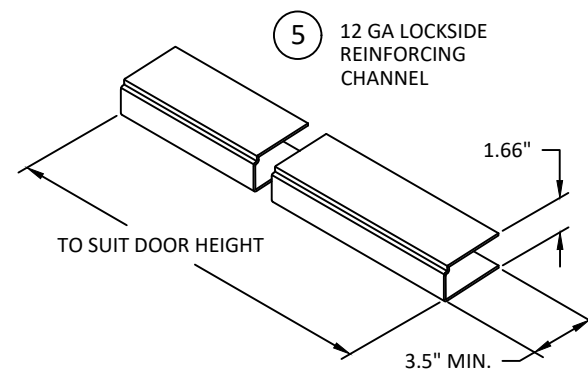
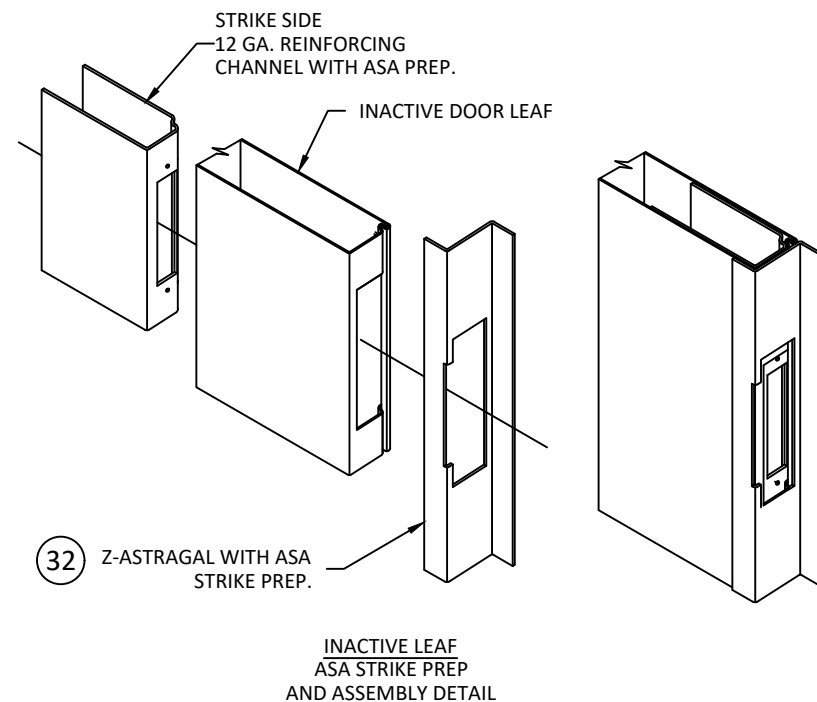
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HINGE NOTES:

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.





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MULLION DETAILS

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SHEET:

24

OF 37

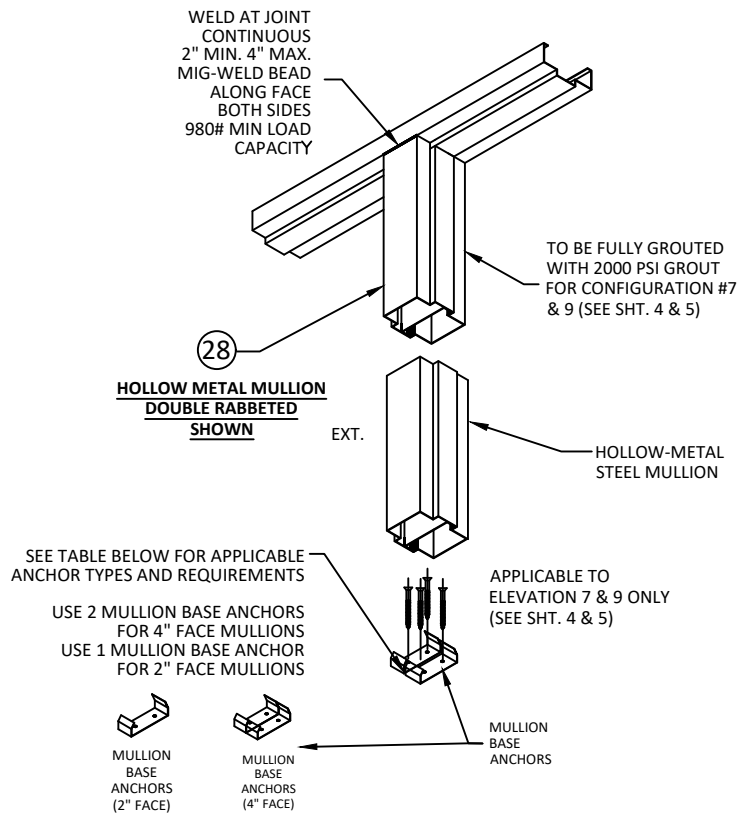
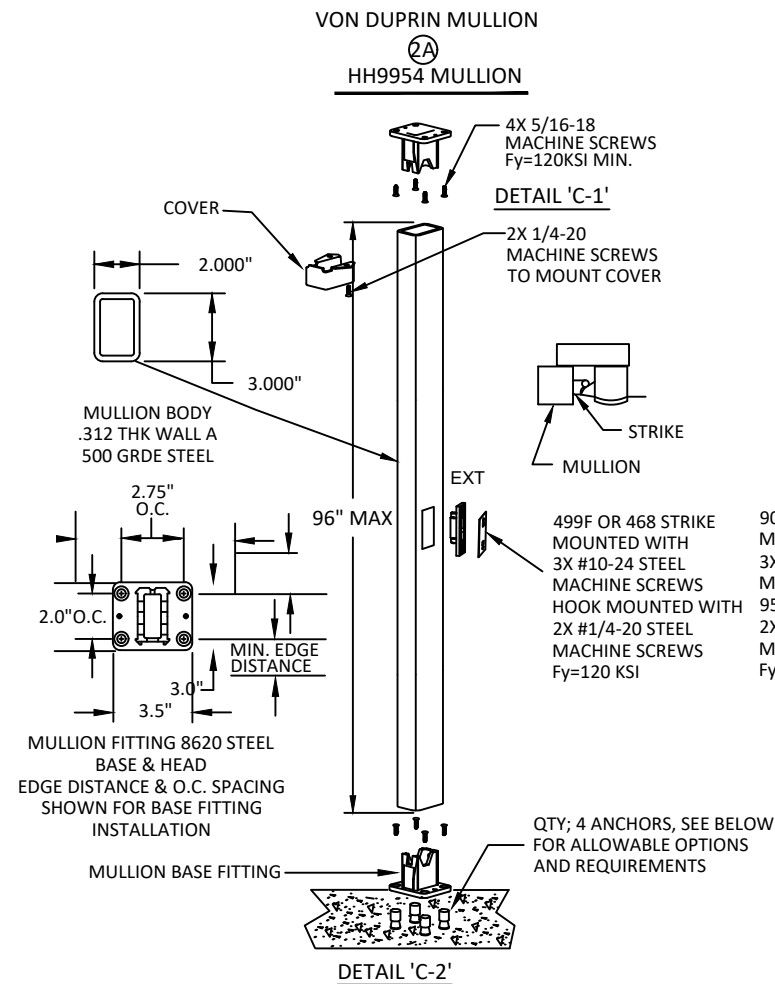


TABLE 9: ANCHOR TYPES AND REQUIREMENTS FOR HOLLOW METAL MULLION

ANCHOR	EMBEDMENT	EDGE DISTANCE	CONC. STRENGTH	SPACING	QUANTITY
ELCO 5/16" ULTRACON	2"	3.75"	3515 PSI	3-3/8"	2 PER BASE ANCHOR (2 FOR 2" FACE 4 FOR 4" FACE)
DEWALT/POWERS 3/8" POWER-BOLT	2"		3000 PSI		
DEWALT/POWERS 3/8" LOK BOLT AS	1-1/4"				
HILTI 3/8" KWIK BOLT TZ2	2"				

HOLLOW MULLION MATERIAL: MINIMUM THICKNESS IS 0.053" (16 GA.)
MINIMUM YIELD STRENGTH = 41,500 PSI
MINIMUM TENSILE STRENGTH = 52,400 PSI



MULLION EXPANSION ANCHOR NOTES:

ALLOWABLE ANCHOR TYPES ARE (SEE ABOVE FOR SPACING REQUIREMENTS):

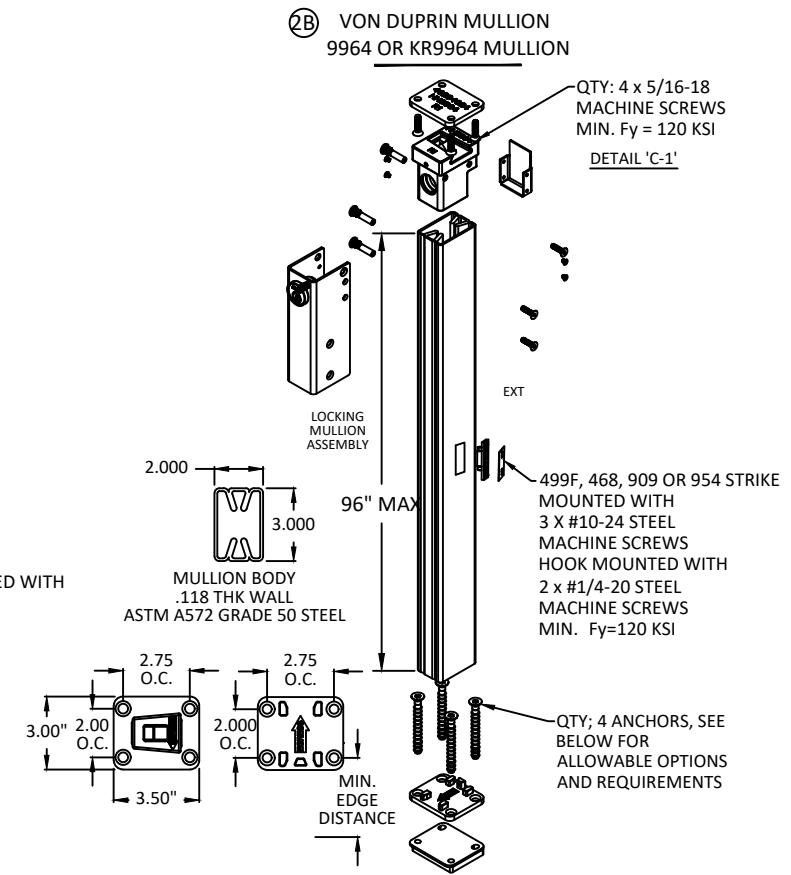
1/4" DEWALT/POWERS SMART DI+ EXPANSION ANCHORS WITH MIN 1" EMBEDMENT AND 2.8" EDGE DISTANCE IN 3000 PSI CONCRETE

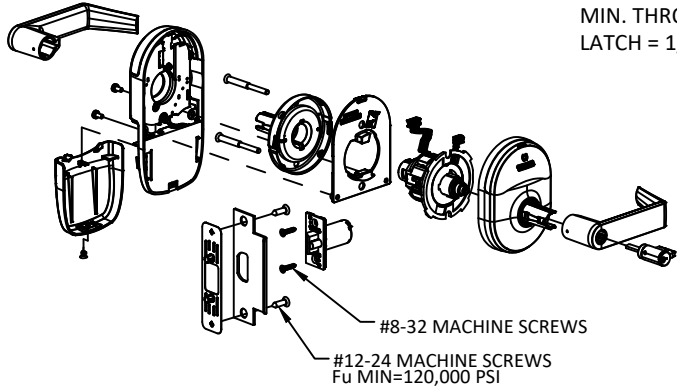
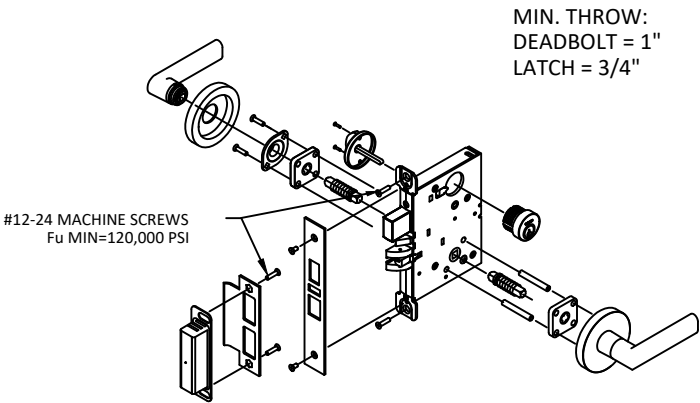
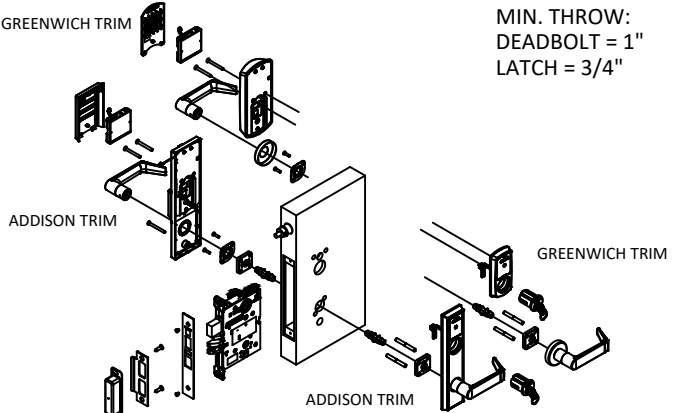
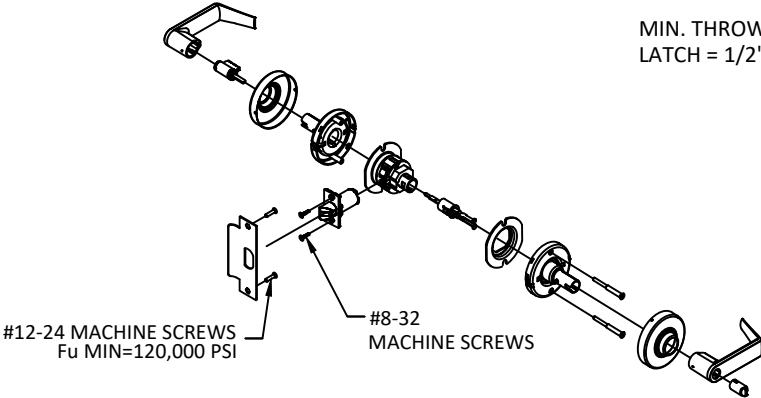
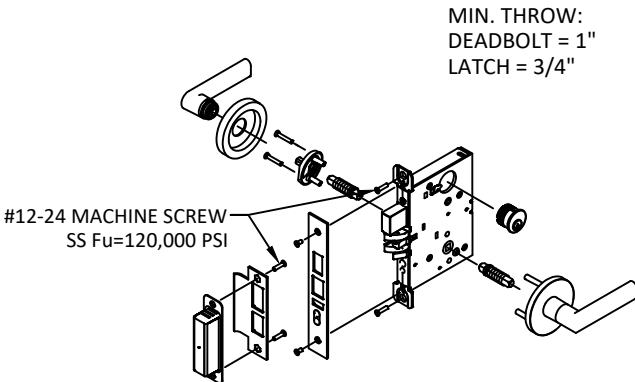
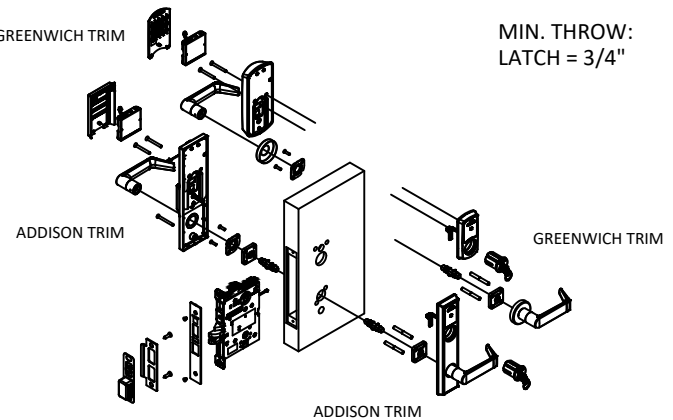
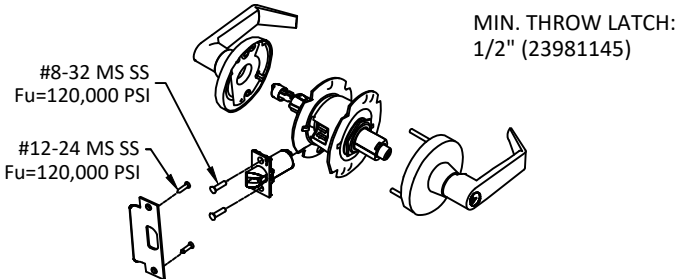
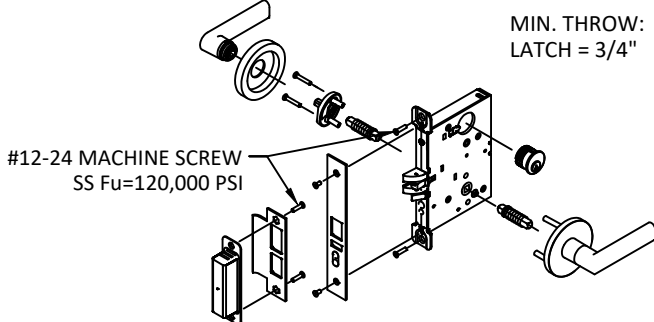
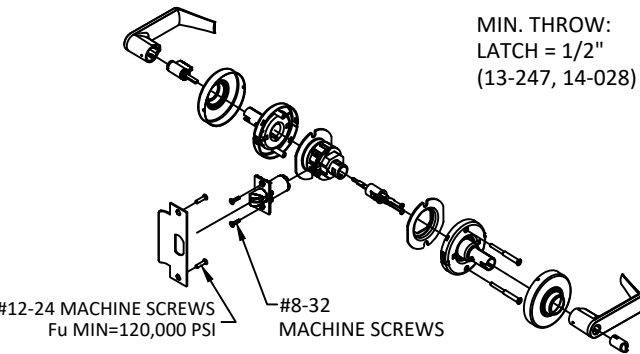
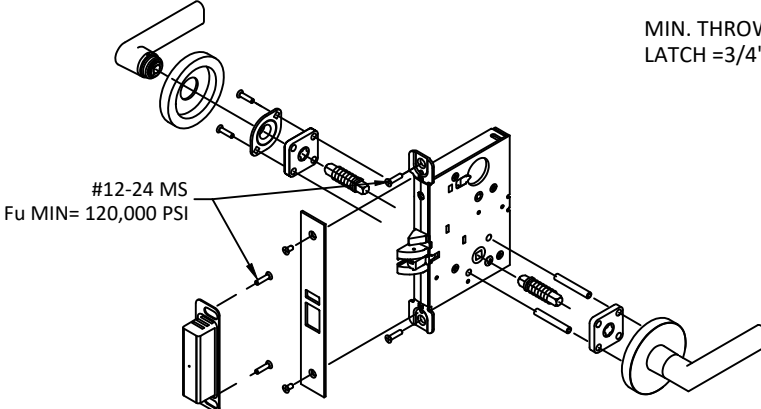
OR

1/4" HILTI KB-TZ2 (CS OR SS) 1-1/2" EMBEDMENT WITH MIN 3.25" EDGE DISTANCE IN 4000 PSI CONCRETE

OR

1/4" CS SIMPSON TITEN HD (316 S.S.) HEAVY-DUTY WITH MINIMUM 2.8" MIN. EDGE DISTANCE IN 3000 PSI CONCRETE



 MIN. THROW: LATCH = 1/2" #8-32 MACHINE SCREWS #12-24 MACHINE SCREWS Fu MIN=120,000 PSI	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" #12-24 MACHINE SCREWS Fu MIN=120,000 PSI	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" GREENWICH TRIM ADDISON TRIM GREENWICH TRIM ADDISON TRIM
SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET USED IN CONFIGURATIONS: 11	SCHLAGE L/LV 9400 & PM400 SERIES MORTISE LOCKSET W/ DEADBOLT. USED IN CONFIGURATION: 10	SCHLAGE LE-MD & LEB-MD SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION:10
 MIN. THROW: LATCH = 1/2" #12-24 MACHINE SCREWS Fu MIN=120,000 PSI #8-32 MACHINE SCREWS	 MIN. THROW: DEADBOLT = 1" LATCH = 3/4" #12-24 MACHINE SCREW SS Fu=120,000 PSI	 MIN. THROW: LATCH = 3/4" GREENWICH TRIM ADDISON TRIM GREENWICH TRIM ADDISON TRIM
SCHLAGE D/ND-SERIES CYLINDRICAL LOCKSET. USED IN CONFIGURATION: 11	FALCON MA-SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION: 10	SCHLAGE LE-MS, LEB-MS, LE-MB, LEB-MB SERIES MORTISE LOCKSET W/O DEADBOLT. USED IN CONFIGURATION: 10
 MIN. THROW LATCH: 1/2" (23981145) #8-32 MS SS Fu=120,000 PSI #12-24 MS SS Fu=120,000 PSI	 MIN. THROW: LATCH = 3/4" #12-24 MACHINE SCREW SS Fu=120,000 PSI	 MIN. THROW: LATCH = 1/2" (13-247, 14-028) #12-24 MACHINE SCREWS Fu MIN=120,000 PSI #8-32 MACHINE SCREWS
FALCON, T, TM -SERIES CYLINDRICAL LEVER LOCKSET USED IN CONFIGURATION: 11	FALCON MA-SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 10	SCHLAGE ALX & PC SERIES CYLINDRICAL LOCKSET. USED IN CONFIGURATION: 11
 MIN. THROW: LATCH =3/4" #12-24 MS Fu MIN= 120,000 PSI	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.	
SCHLAGE L/LV 9000 & PM SERIES MORTISE LOCK WITHOUT DEADBOLT USED IN CONFIGURATION: 10		



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

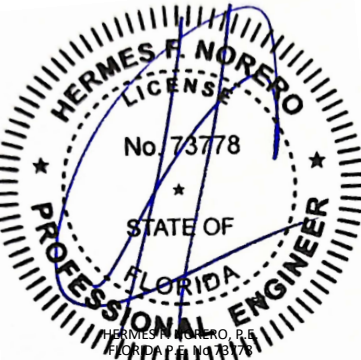
TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
LOCKING HARDWARE

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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BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: 04.18.22

DWG. BY: CPA	CHK. BY: HFN
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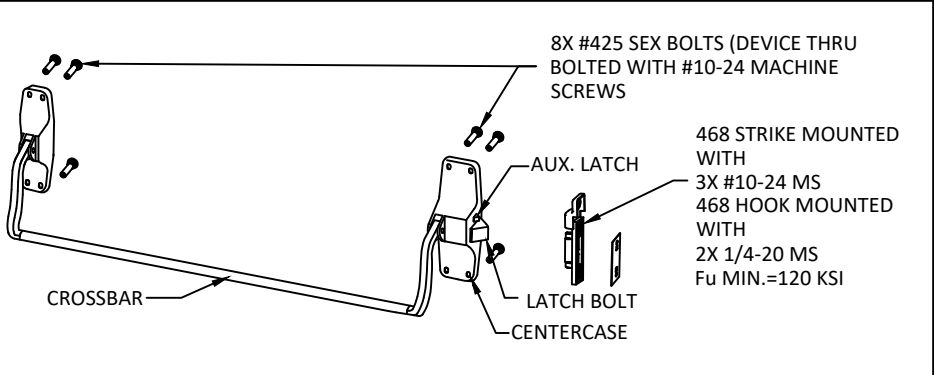
SCALE: NTS

DWG. #: IRGD07

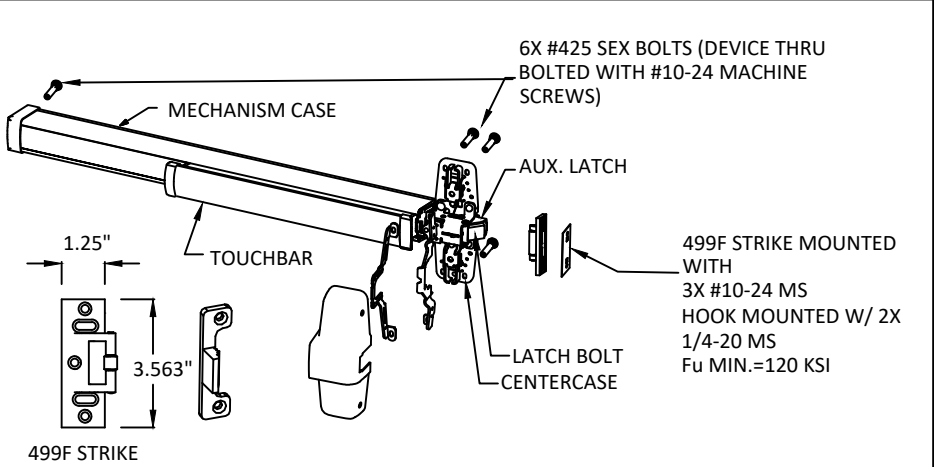
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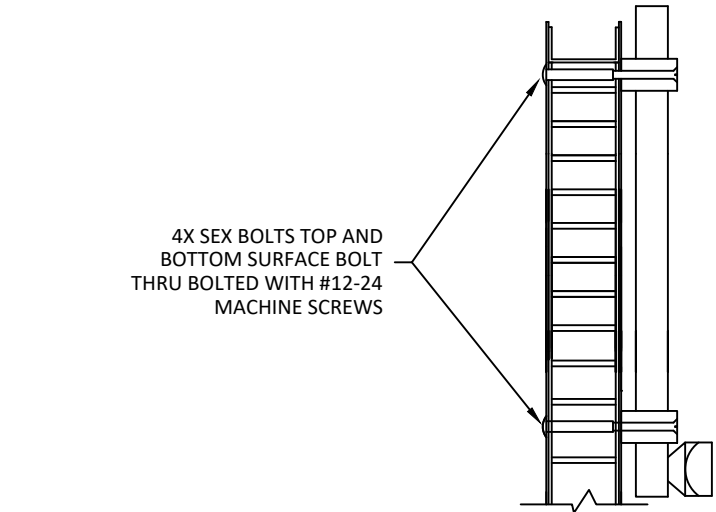
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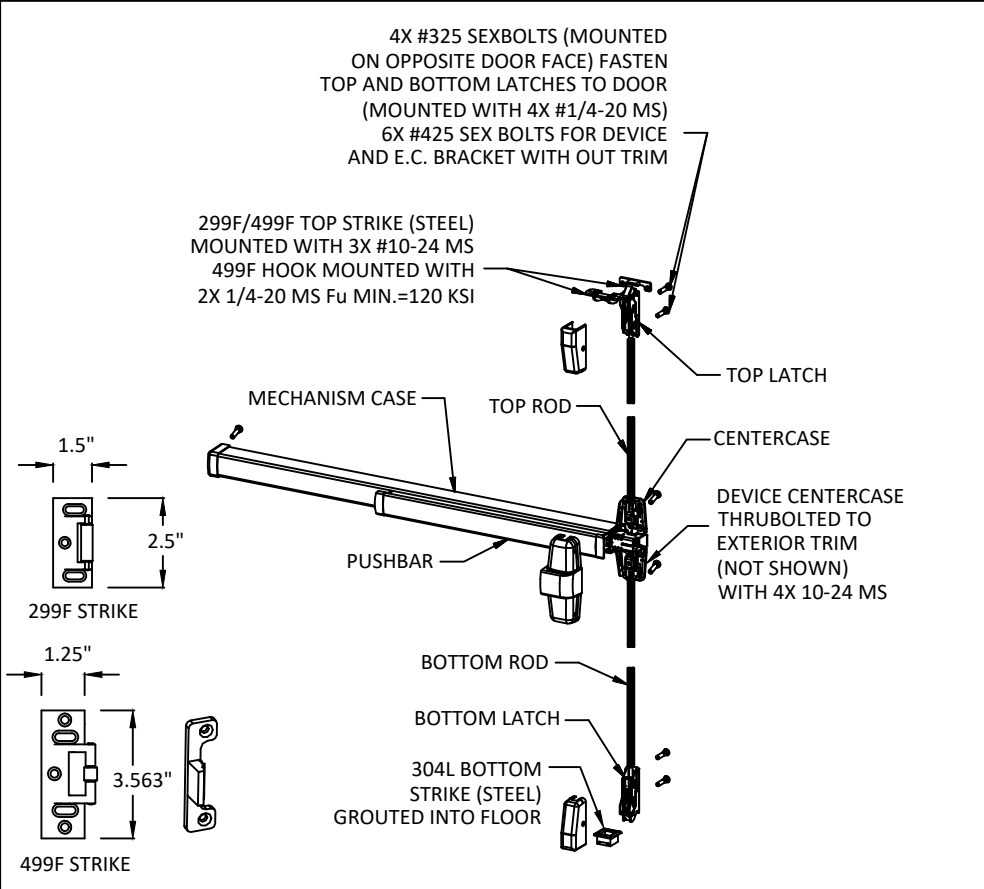
VON DUPRIN 88-F RIM DEVICE, USED IN CONFIGURATIONS: 1 & 2



VON DUPRIN 98, 99, 98-F, 99-F, HH78, HH78-F, RIM EXIT DEVICE
USED IN CONFIGURATIONS: 1 & 2



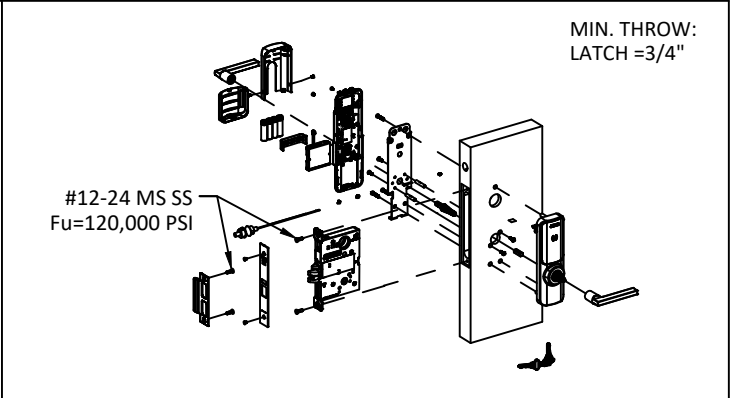
IVES SURFACE BOLT SB360
USED ON INACTIVE DOOR FOR CONFIGURATIONS: 10 & 11



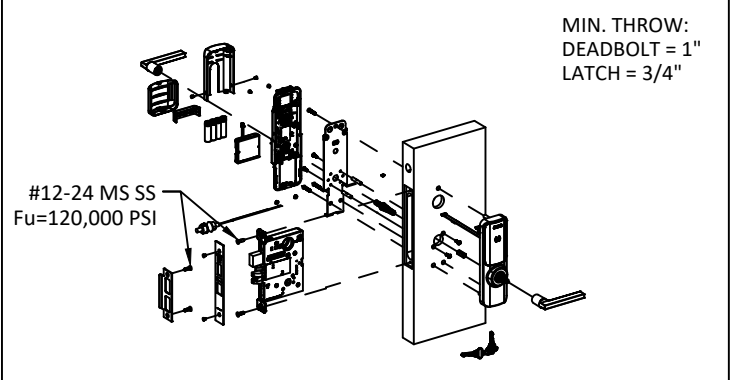
VON DUPRIN 9827, 9927, 9827-F, 9927-F, HH7827, HH7827-F
SURFACE VERTICAL ROD DEVICE USED IN CONFIGURATION: 4

NOTE:
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EXIT HARDWARE OPTIONS:
1. FOR 98/99, XP98/99, HH78 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN
TRIM: ALL APPLICABLE TRIMS AVAILABLE.
2. FOR 88-F SERIES - OPTION E; PN MODEL OFFERED.
TRIM: ALL APPLICABLE TRIMS AVAILABLE.



SCHLAGE XE360-M-B & XE360-M-I SERIES MORTISE
LOCKSET WITHOUT DEADBOLT.
USED IN CONFIGURATION: 10



SCHLAGE XE360-M-D SERIES MORTISE LOCKSET W/
DEADBOLT. USED IN CONFIGURATION: 10

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

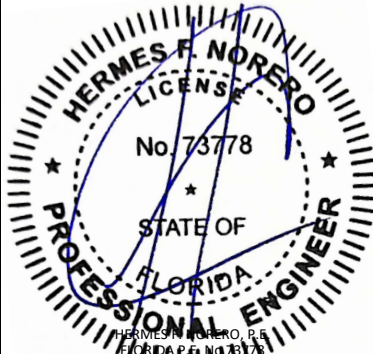
LOCKING HARDWARE - CONT.

PREPARED BY: BUILDING DROPS, INC.
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REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
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1900 NE MIAMI CT, SUITE 2-15
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DATE: 04.18.22

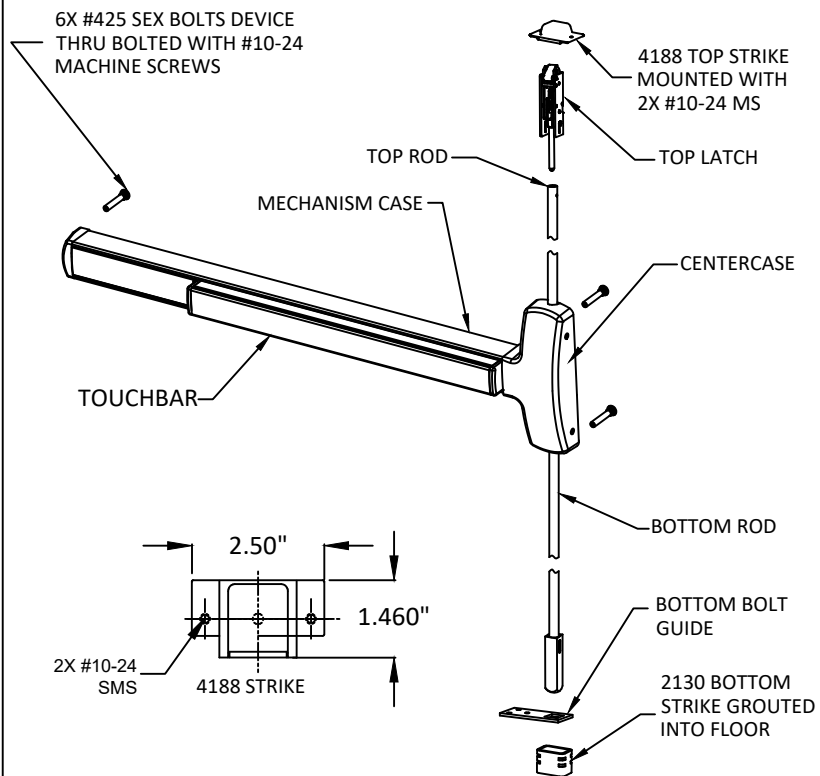
DWG. BY: CPA CHK. BY: HFN

SCALE: NTS

DWG. #: IRGD07

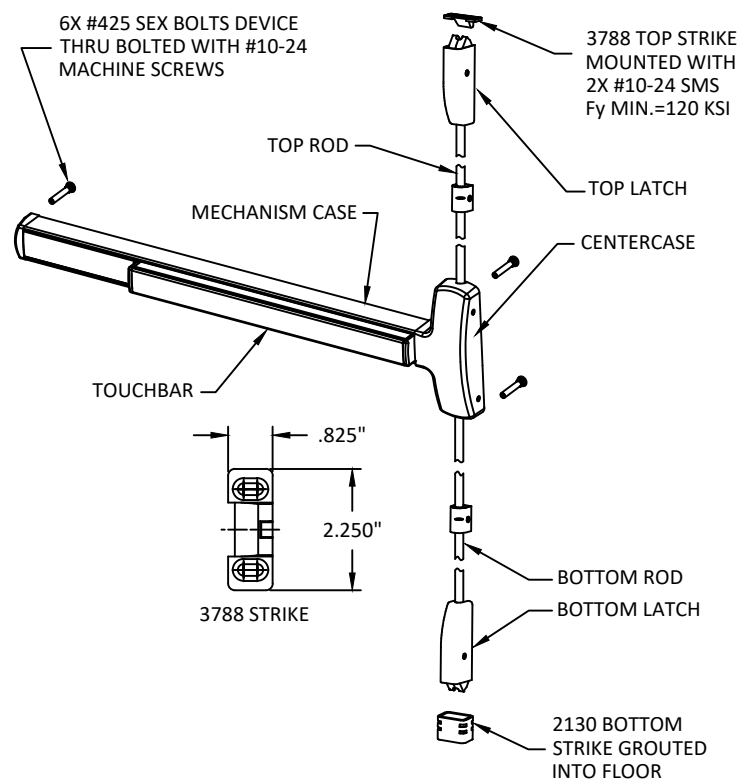
SHEET: 26 OF 37

SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCKSET
USED IN CONFIGURATIONS: 10 (SEE SHT. 5)

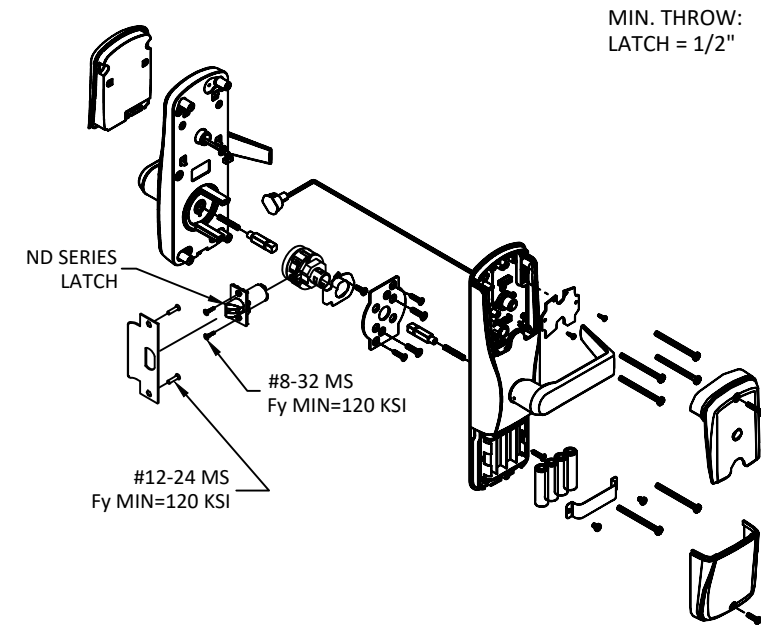


FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE
USED IN DOOR CONFIGURATION 5 (SEE SHT. 4)

SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET
USED IN CONFIGURATIONS: 10 (SEE SHT. 5)



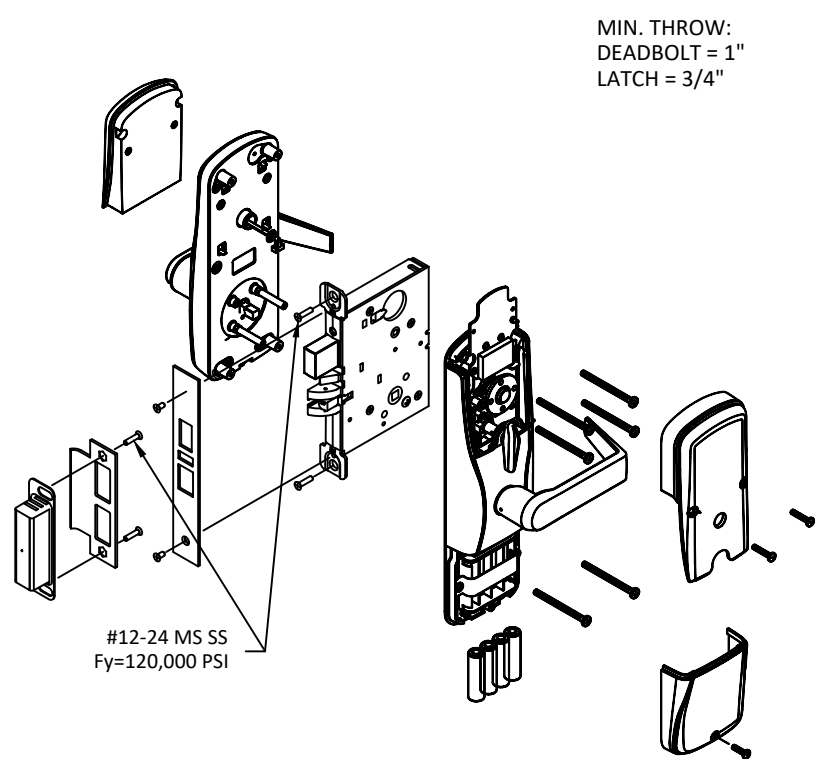
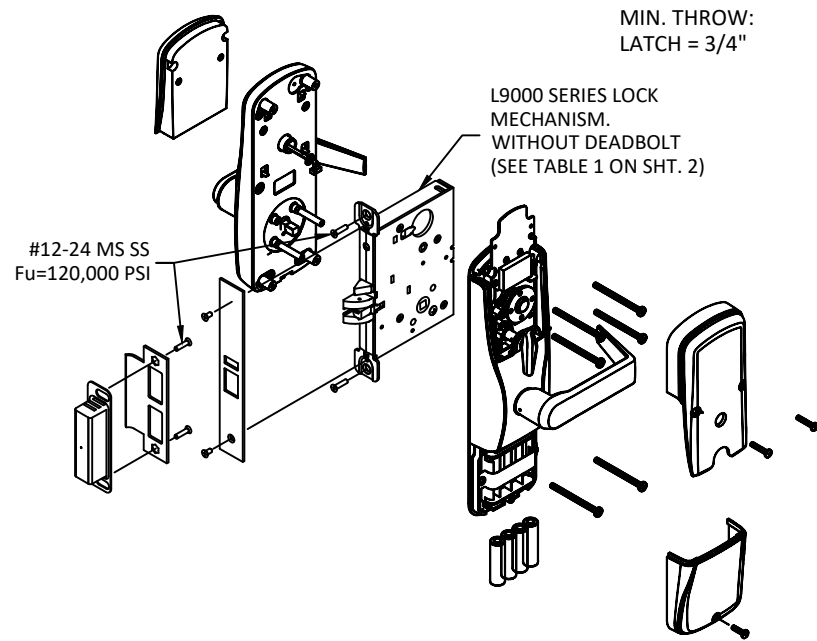
FALCON 25-V F-25-V SURFACE VERTICAL ROD EXIT DEVICE
USED IN DOOR CONFIGURATION 4 (SEE SHT. 4)



SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL
LOCKSET USED IN CONFIGURATIONS: 11 (SEE SHT. 5)

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EXIT HARDWARE OPTIONS:
1. F-25-C & (F)25-V SERIES - OPTIONS AE, DM, LM, KOR, MEL, EA, FSA, FSE, CD, RX, LD
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



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

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

LOCKING HARDWARE CONT.

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BUILDING DROPS, INC.

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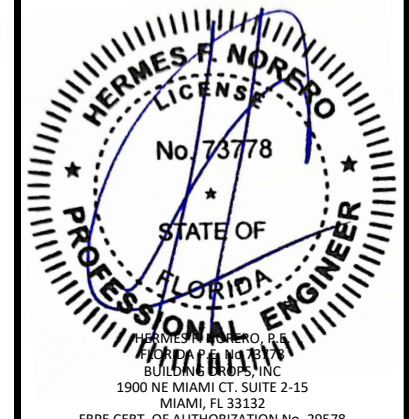
PH: (954)399-8478
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DATE: 04.18.22

DWG. BY:
CPA

CHK. BY:
HFN

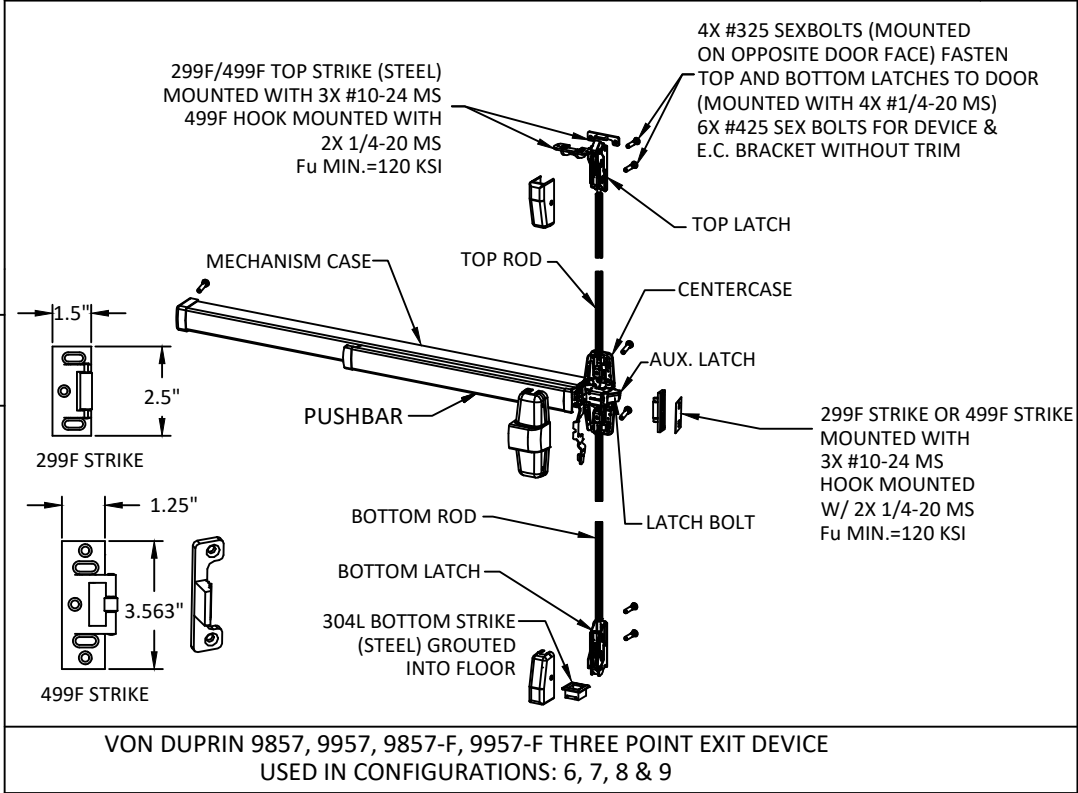
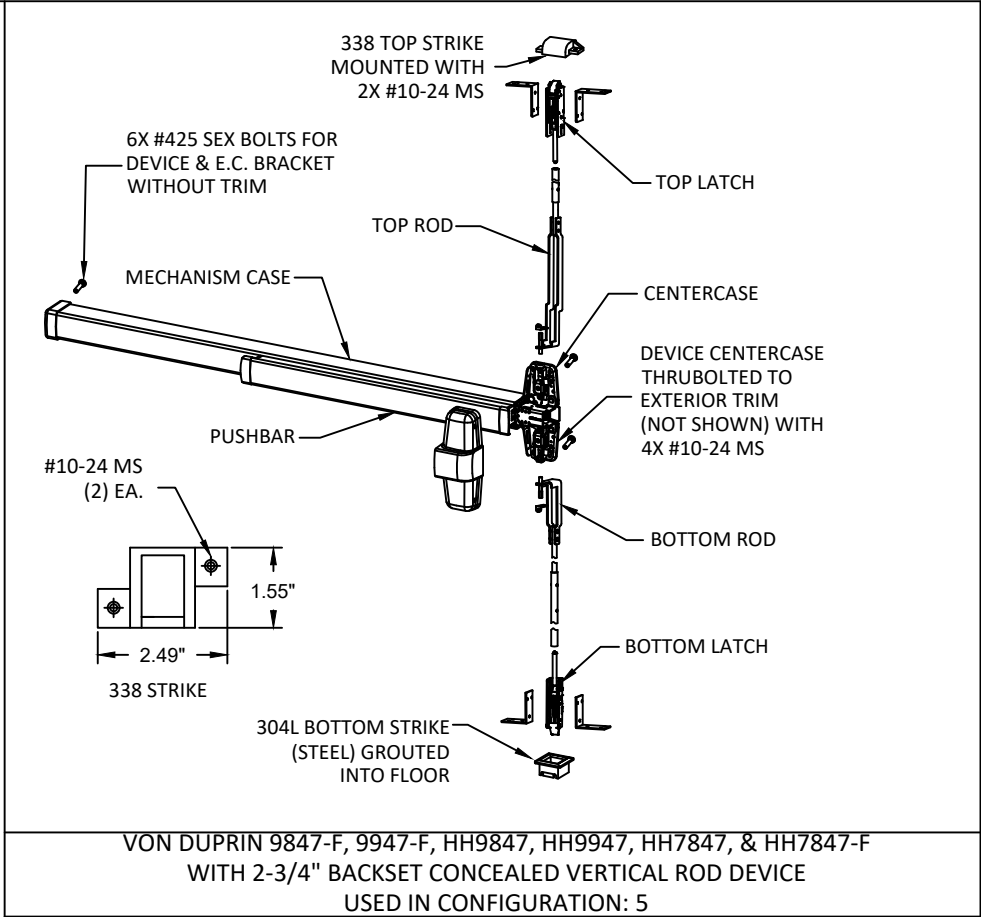
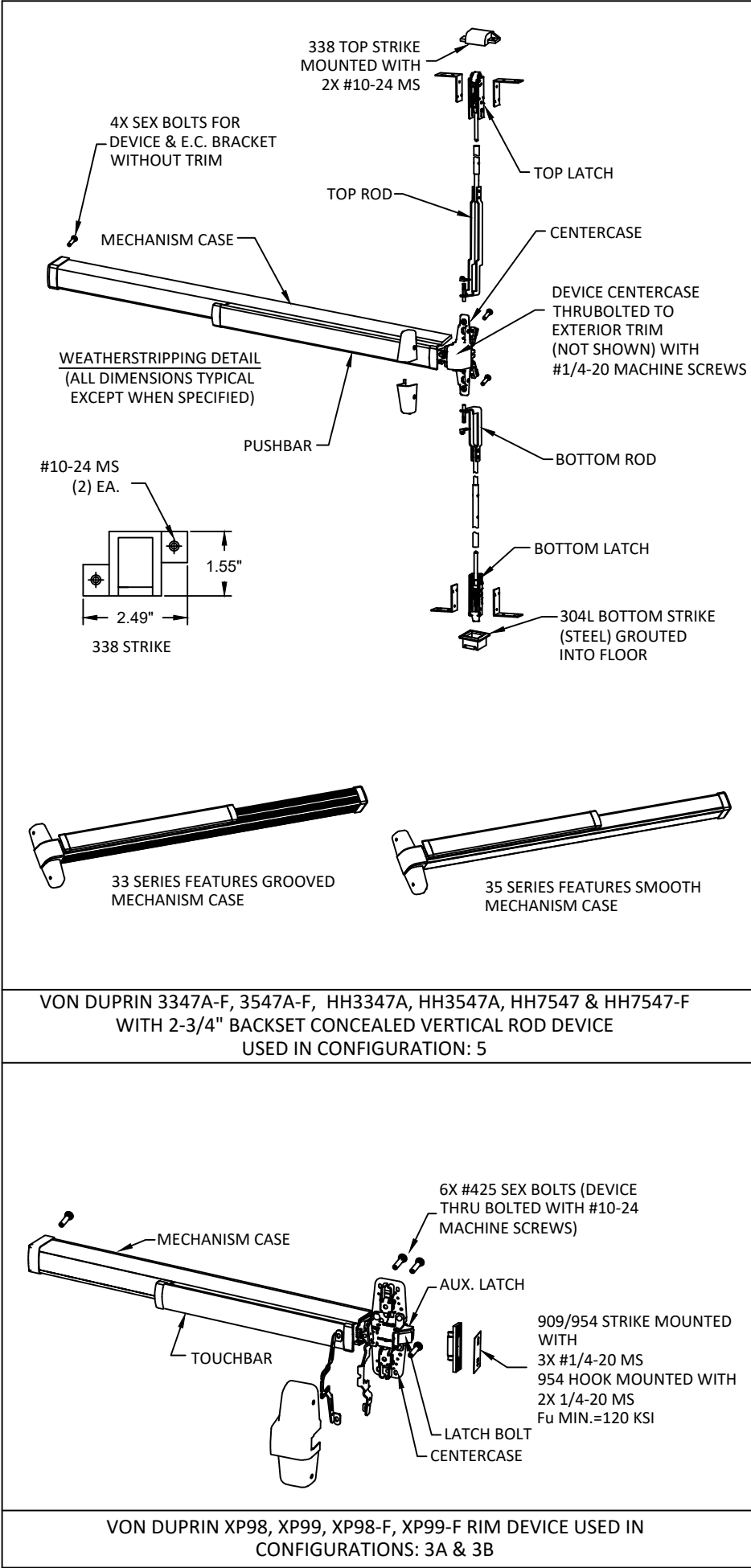
SCALE: NTS

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27

OF 37



NOTE:

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EXIT HARDWARE OPTIONS:

1. FOR 98/99, HH78, HH75 & XP98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN (OPTIONS MAY VARY PER SERIES)

TRIM: ALL APPLICABLE TRIMS AVAILABLE.

FOR 33/35-F SERIES - OPTIONS RX, LX, E, QEL, EL, SS, CX, F, ALK, CD, PN, LD

TRIM: ALL APPLICABLE TRIMS AVAILABLE.



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

TITLE: OUTSWING DOUBLE GLAZED COMMERCIAL STEEL DOORS (HVHZ)(IMPACT)

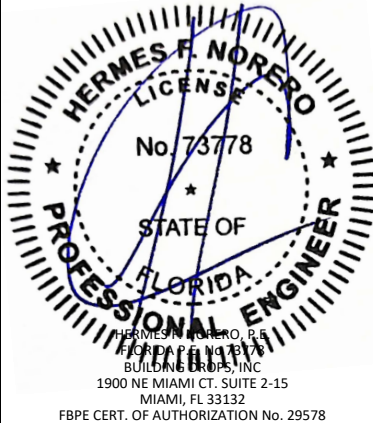
LOCKING HARDWARE CONT.

PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
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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: 04.18.22

DWG. BY: CPA

CHK. BY: HFN

SCALE: NTS

DWG. #: IRGD07

SHEET: 28 OF 37

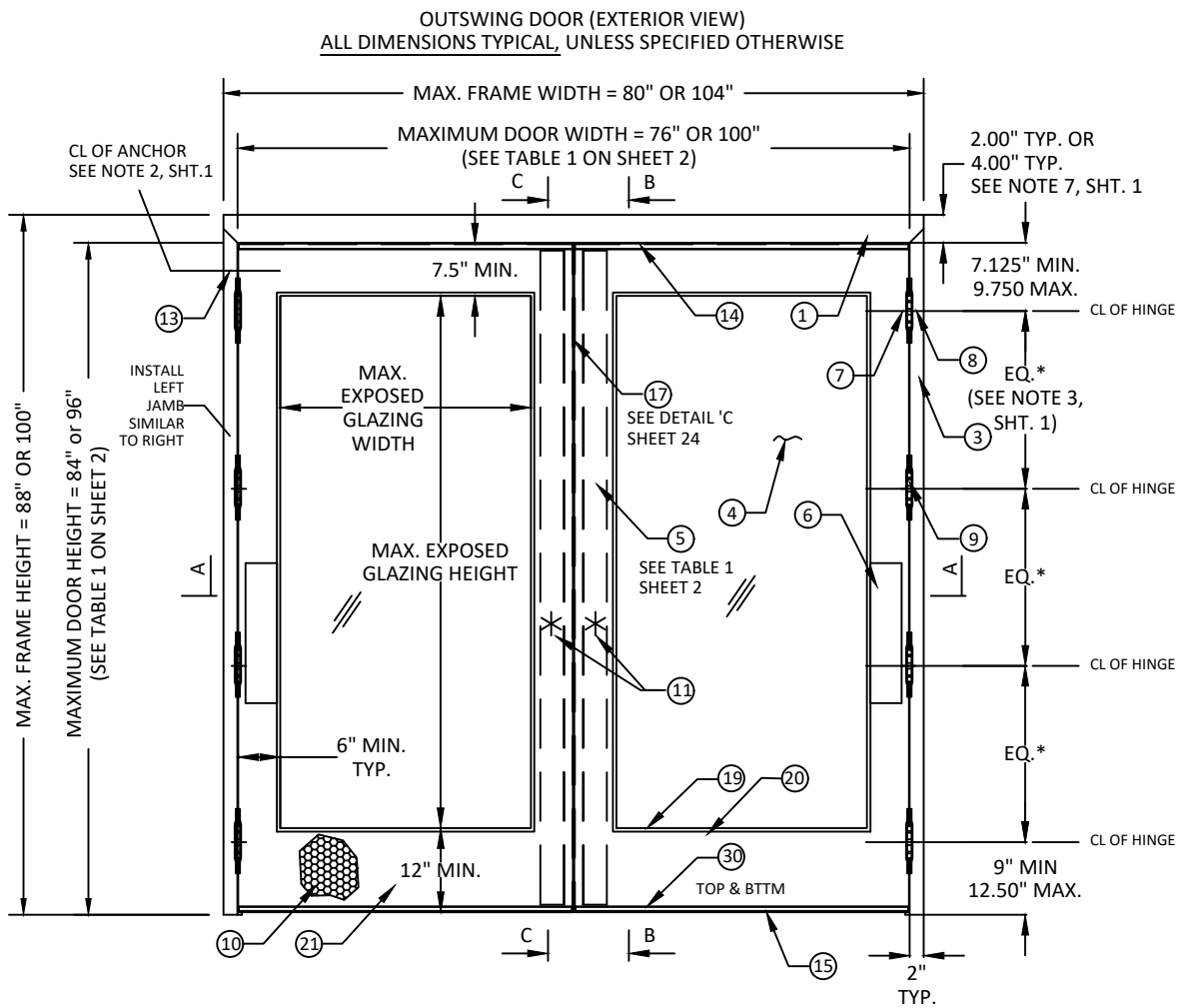


TABLE 10: (FOR OPTION 1 SEE TABLE 2 SHT. 6)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE		
1	1	HEAD, SEE SHT. 31	.053" MIN. STL	MAX. 100"		
2	1	2A) VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT		
		2B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION	.118" A500 STL			
3	2	HINGE JAMB, SEE SHT. 31	.053" MIN. STL	MAX. 100" HEIGHT		
4	VARIES	LEXAN BY SABIC INNOVATIVE PLASTICS	.25" OR .50"	35.406" X 75.656" MAX.		
		LAMINATED GLASS WITH KURARAY SENTRYGLAS INTERLAYER	.562" TYP.			
		SUPERLITE II-XL BY SAFTI W/ KURARAY SENTRYGLAS INTERLAYER	1.06" OR 1.438" TYP.			
		5/16" HS LAMINATED GLASS WITH SAFLEX CP BY EASTMAN INTERLAYER	.3125" TYP.			
5	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.		
6	AS REQUIRED	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"		
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.		
7A	NOTE 3, SHT.1	HINGE REINFORCEMENT DOOR	.053" MIN. STL	1.677" X FULL HEIGHT -END CHANNELS		
7B	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.123" MIN. STL	1.375" X 4.5" MIN.		
8	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.19" MIN.		
9	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES (SEE SHT. 23)	.134 MIN.	(8) #12-24 MS PER HINGE		
		OPTIONAL CONTINUOUS HINGE (SEE SHEET 23)	.075" MIN. STL / .110 ALUM.	MAX. 95"		
10	2	CORE MATERIAL:				
		D) HONEYCOMB	C) STEEL STIFFENED	SEE SHT. 9		
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE				
		E) MINERAL BOARD TEMPERATURE RISE CORE				
11	2	LOCKING HARDWARE - LOCKSET	SEE SHTS. 25-28			
12	1	THRESHOLD SILL W/BUMPER GASKET (SHT.S 19-22)		5.0" X 0.5" X 96" MAX		
		12A) 566 ZERO WATER RATED, SHTS. 19 & 20, NON WATER SHT. 21	.125" ALUM. 6063 T5			
		12B) 950A NGP WATER RATED SHT. 20, NON WATER SHTS. 21 & 22	.078" ALUM. 6063 T5			
		12C) 65 ZERO NON WATER RATED SEE SHT. 21	0.125" ALUM. 6063 T5	6.0" X 0.5" X 96" MAX.		
		12D) 568 ZERO NON WATER RATED SEE SHT. 21	0.125" ALUM. 6063 T5			
13	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 13-17 & 32-36			
14	SEE SHTS. 19-22	14A) PS074 DOOR SEAL	TPE	VARIES		
		14B) 188S, 14C) 117S, 14D)8144S, 14E)8150S, DOOR SEAL ZERO	SILICONE			
15	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 48"		
16	-	-	-	-		
17	1	17A) 328 SPLIT ASTRAGAL BY ZERO INT'L	SEE SHTS. 19-22	-		
		17B) 137 SPLIT ASTRAGAL BY NGP				
18	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 19-22			
19	AS NEEDED	GLAZING HOLDING TRIM SEE SHT. 12		0.032" MIN. STL.	34.25" X 74.5" EXPOSED GLASS MAX SEE SHTS.12 & 12A FOR DETAILS & LIMITATIONS	
		A) DESIGNER TRIM				
		B) STEEL OVERLAPPING TRIM				
		F) STEEL OVERLAPPING TRIM				
		E) HIGH SECURITY VISION FRAME	SG-10 BY ANEMOSTAT			.093" (12GA) MIN. STL.
			VLF-S10 BY AIR LOUVERS			.123" (10GA) MIN. STL.
		D) VLF-EZHRC				.032" MIN. STL.
C) VLF IGHRC						
20	NOTE 16, SHT. 1	CUTOUT REINFORCEMENT CHANNEL (18GA)		.047" MIN. STL	0.5" MIN. X 1.66" X 35.5" & 75.5" MAX.	
21	2	DOOR SLAB (16 OR 14 GA)		SEE SHT. 9	3' X 7' OR 4' BY 8' MAX	
22	1	22A) 8150S DOOR SEAL BY ZERO INT'L SEE SHT. 19	SILICONE	MAX 84" OR 96"		
		22B) 188S DOOR SEAL BY ZERO INT'L SEE SHT. 20				
23	4	202N DOOR SWEEP BY NGP, SHT. 20	TPE	MAX 48"		
24	2	24A) 139 DOOR SWEEP BY ZERO INT'L SEE SHTS. 19 & 20	TPE	MAX 96" FOR VERTICAL MAX 48" FOR HORIZONTAL		
		24B) 328 DOOR SWEEP BY ZERO INT'L SEE SHT. 20				
		24C) 200N DOOR SWEEP BY NGP SEE SHT. 20				
25	2	25A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHT. 20	TPE	MAX 104"		
		25B) 170N ADJUSTABLE SEAL BY NGP SEE SHT. 19				
26	1	26A) 142 RAIN DRIP BY ZERO INT'L	SEE SHTS. 19 & 20	MAX. 36" OR 48"		
	2	26B) 11 RAIN DRIP BY ZERO INT'L	SEE SHTS. 19 & 20	-		
		26C) 16A RAIN DRIP BY NGP	SEE SHT. 20			
27	-	-	-	-		
28	1	HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)	SEE SHT. 31	MAX. 84" OR 96"		
29	2	IVES SB360 SURFACE BOLT - TOP & BOTTOM INACTIVE LEAF COFIG. 10 & 11	STEEL	12" MIN. - 24" MAX. LENGTH		
30	4	END CHANNEL (16 GA - INVERTED OR FLUSH)	.053" MIN. STL	.62" X 1.677"		
31	4	EDGE CHANNEL REINFORCEMENT (16GA)	.053" MIN. STL	.62" X 1.677"		
32	1	Z-ASTRAGAL REQUIRED FOR CONFIGS. 10 & 11	.067" MIN. STL	MAX 95.5"		



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TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS:
OPENING DIMENSIONS & BOM

PREPARED BY:

BUILDING DROPS, INC.

1900 NE MIAMI CT, SUITE 2-15

MIAMI, FL 33132

PH: (954)399-8478

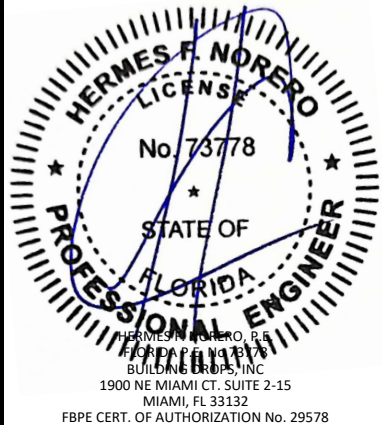
FAX: (954)744-4738

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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FL12400

DATE: 04.18.22

DWG. BY:
CPA

CHK. BY:
HFN

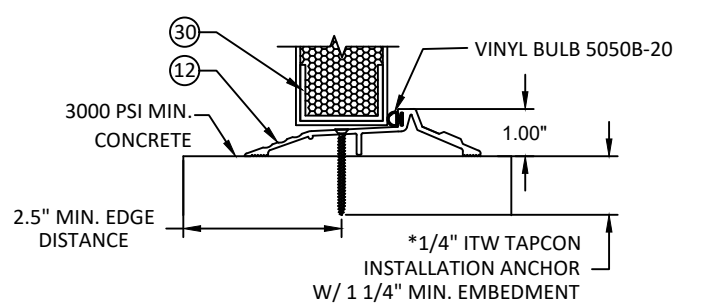
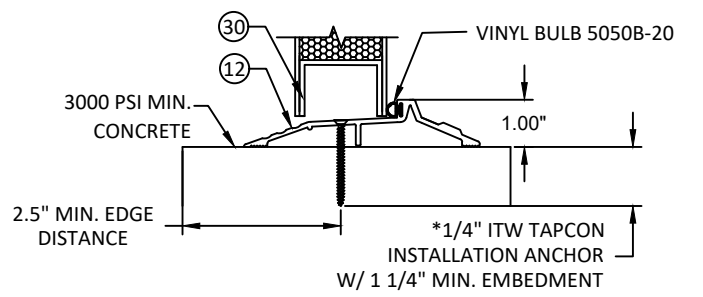
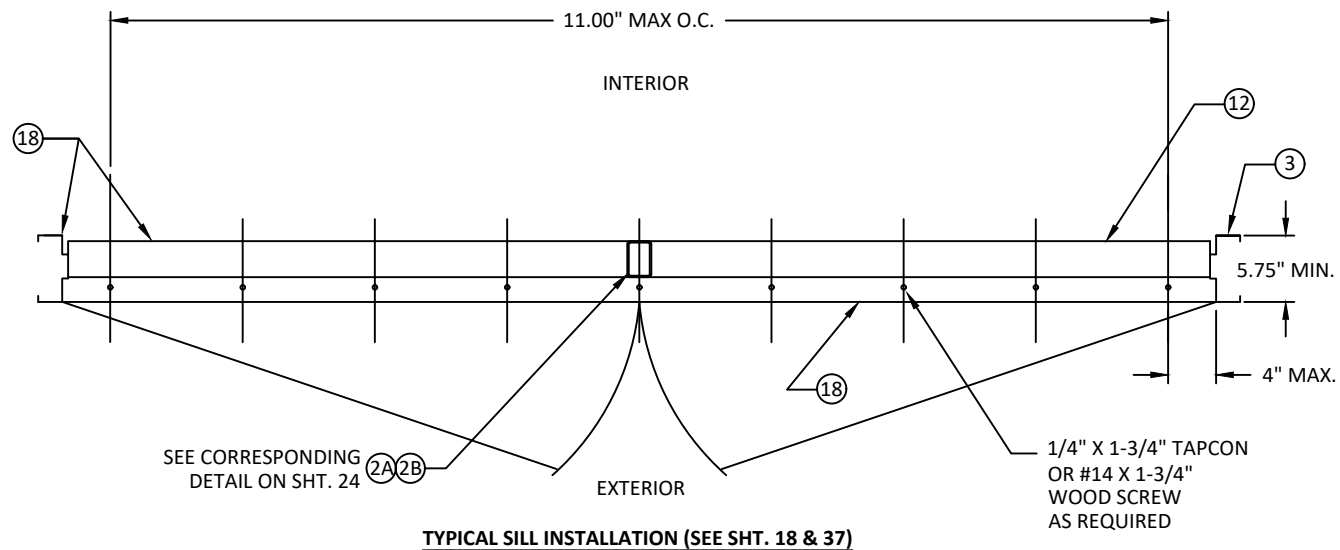
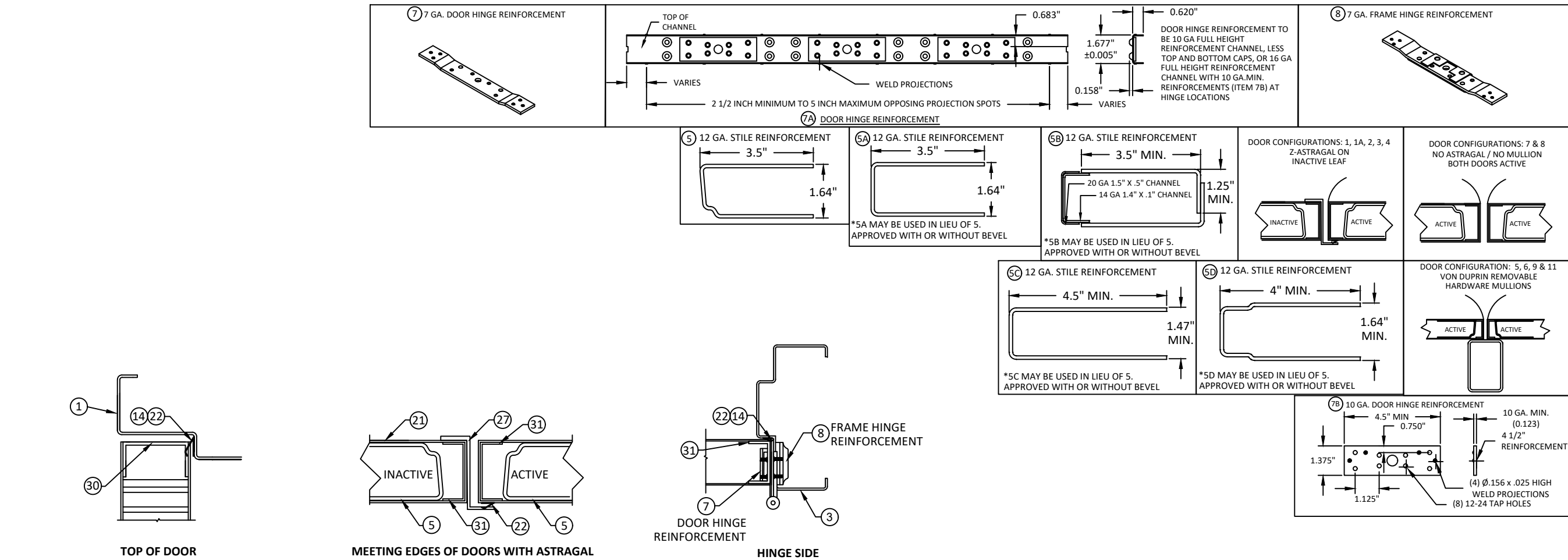
SCALE: NTS

DWG. #: IRGD07

SHEET:

29

OF 37



*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\"/>



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

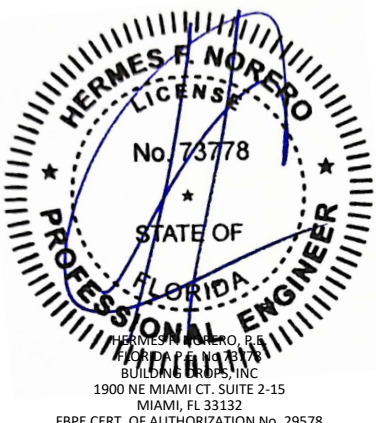
TITLE: OUTSWING DOUBLE GLAZED COMMERCIAL STEEL DOORS (HVHZ)(IMPACT)
REPUBLIC DOORS: SILL & REINFORCEMENT DETAILS

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



REMARKS	BY	DATE
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MPP/ANCHOR UPDATE	SH	06.14.24
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MISC UPDATE	DI	12.09.25

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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: 04.18.22

DWG. BY: CPA	CHK. BY: HFN
--------------	--------------

SCALE: NTS

DWG. #: IRGD07

SHEET: 30 OF 37

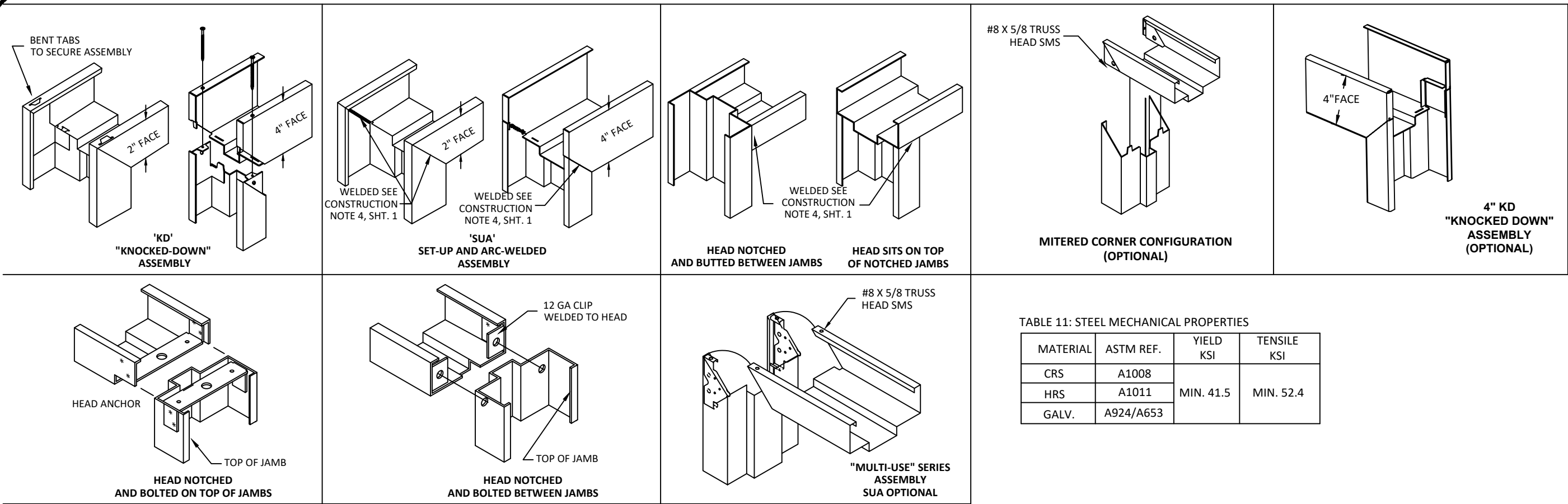


TABLE 11: STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 41.5	MIN. 52.4
HRS	A1011		
GALV.	A924/A653		

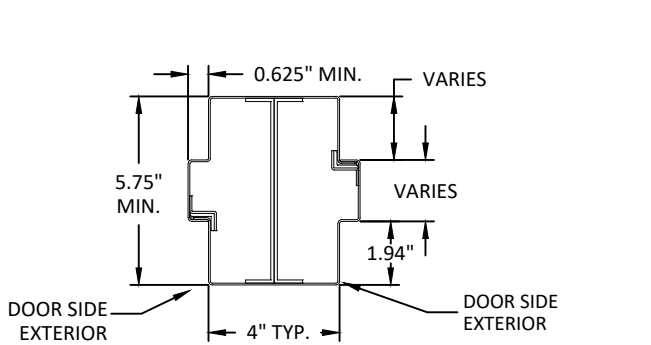
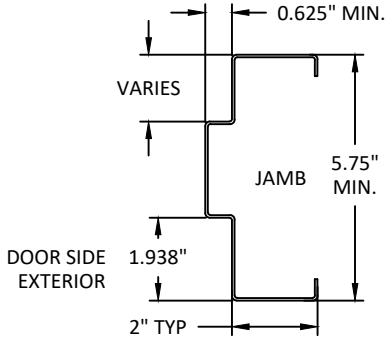
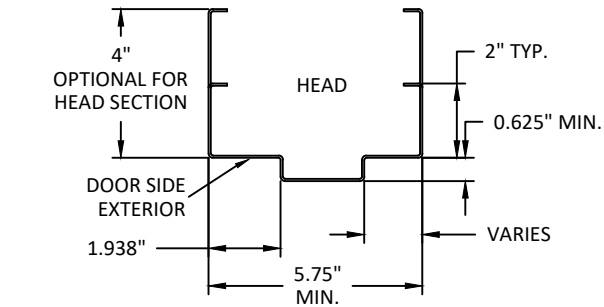
TABLE 12: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 9	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	8'-0"	8'-0"	CRS. GALV.	16/.053"
DE		8'-0"	8'-0"	CRS. GALV.	16/.053" 14/.067"

TABLE 13: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

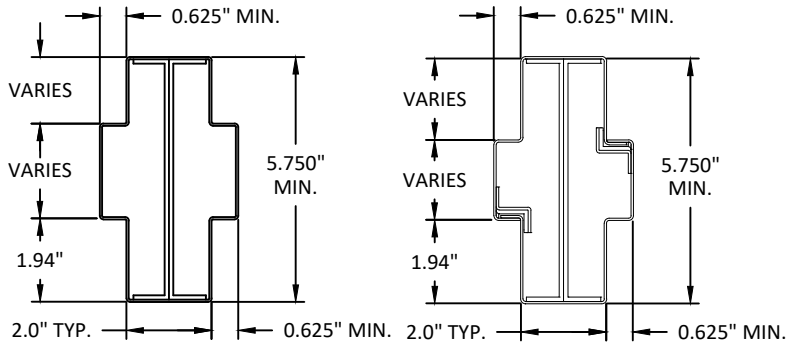
REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME/SE	5.75" MIN.	8'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	8'-0"	8'-0"	CRS/HRS GALV	12/.093"

TYPICAL FRAME PROFILE
DOUBLE RABBIT



28 HOLLOW METAL MULLION
DOUBLE RABBIT

APPLICABLE TO ELEVATION
10 ONLY (SEE SHEET 5)



28 CLOSED SECTION FRAME
.053" MIN. THK



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

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

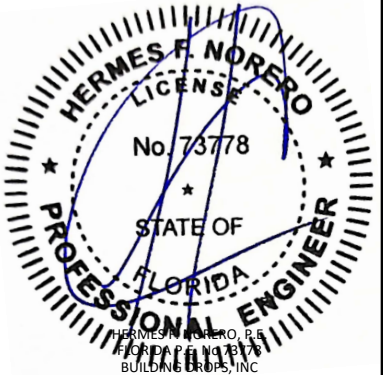
REPUBLIC DOORS: FRAME DETAILS &
CORNER CONSTRUCTION

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, P.E.
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL12400

DATE: 04.18.22

DWG. BY: CPA CHK. BY: HFN

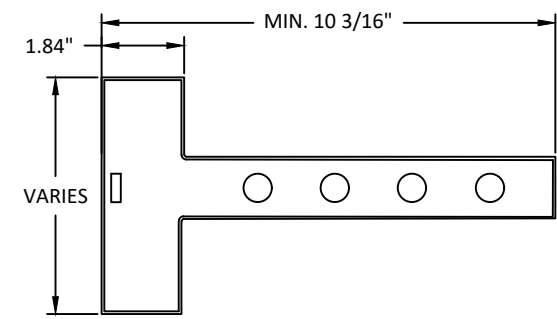
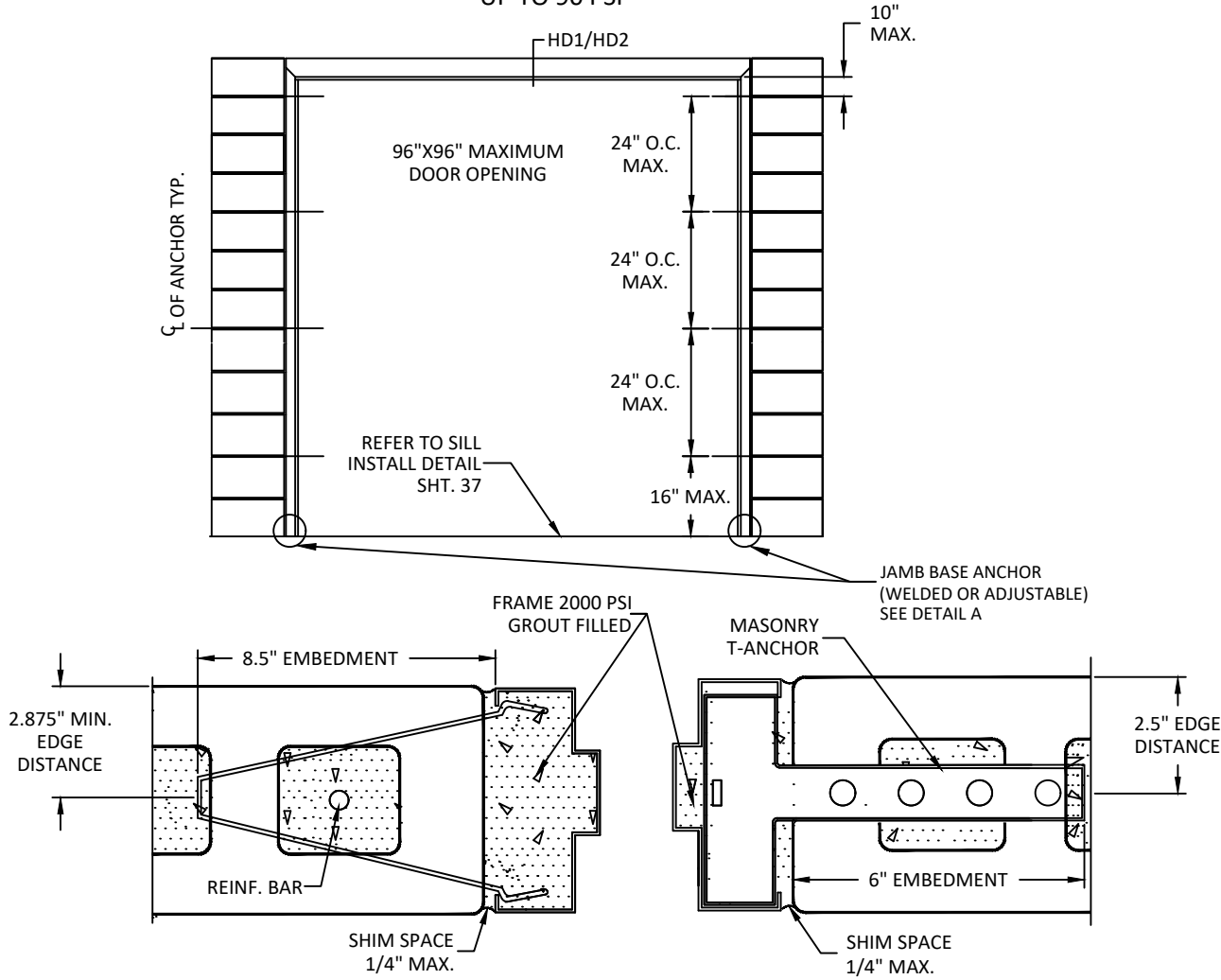
SCALE: NTS

DWG. #: IRGD07

SHEET: 31 OF 37

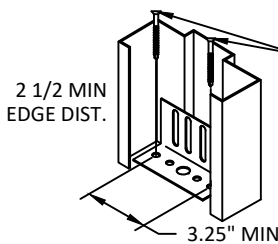
1A

WIRE OR T MASONRY ANCHOR
INTO GROUT FILLED FRAME
AND BLOCK WALL
UP TO 90 PSF



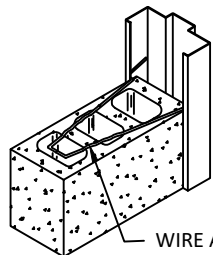
NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS 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.

DETAIL A
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)

MASONRY BLOCK WALLS
CMU (C-90) 2000 PSI
GROUT FILLED

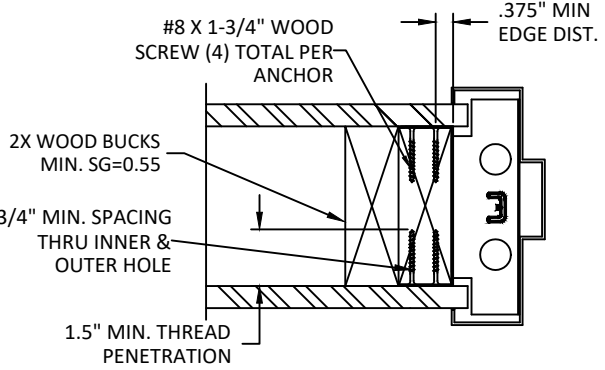
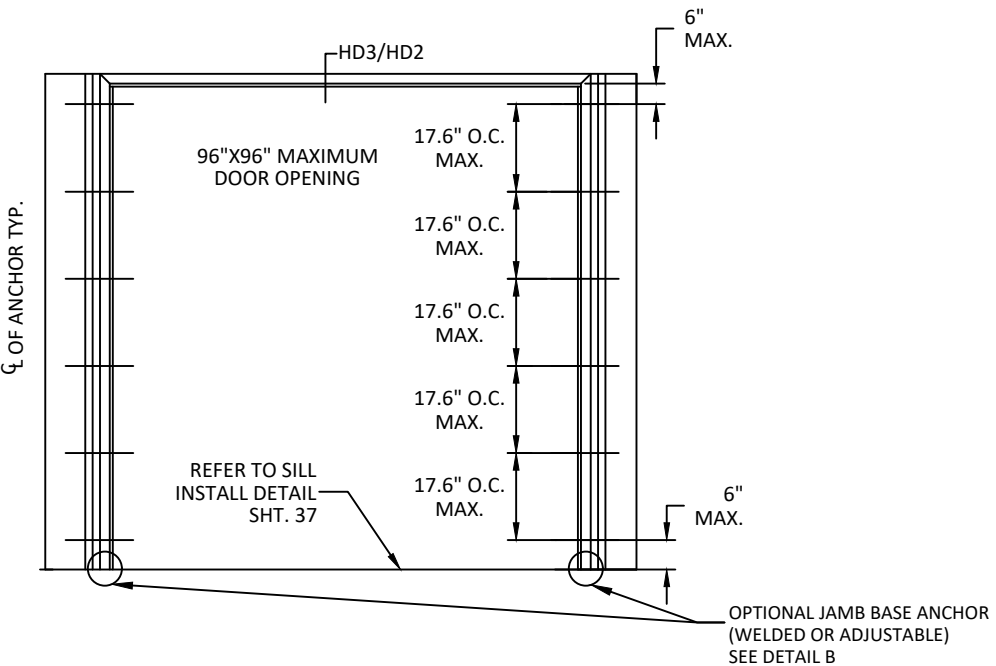


WIRE ANCHOR Ø3/16"
BRIGHT BASIC WIRE 5.19"
X 9.56"
WIRE MASONRY ANCHOR
Fultim MIN.=58 KSI Fy
MIN.=36 KSI

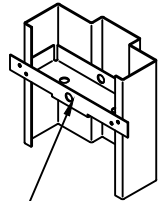
2A

WOOD STUD ANCHOR
UP TO 90 PSF

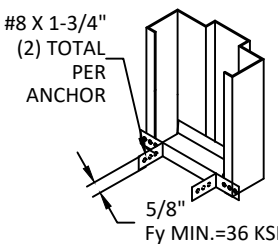
SEE PAGE 13 FOR
OPTION 1 ANCHOR DETAILS



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



DETAIL B
JAMB BASE ANCHOR
(WELDED OR ADJUSTABLE)

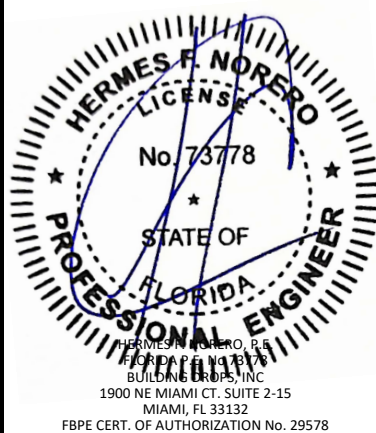


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)
REPUBLIC DOORS: ANCHORS - WIRE OR
T MASONRY ANCHOR & WOOD STUD
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

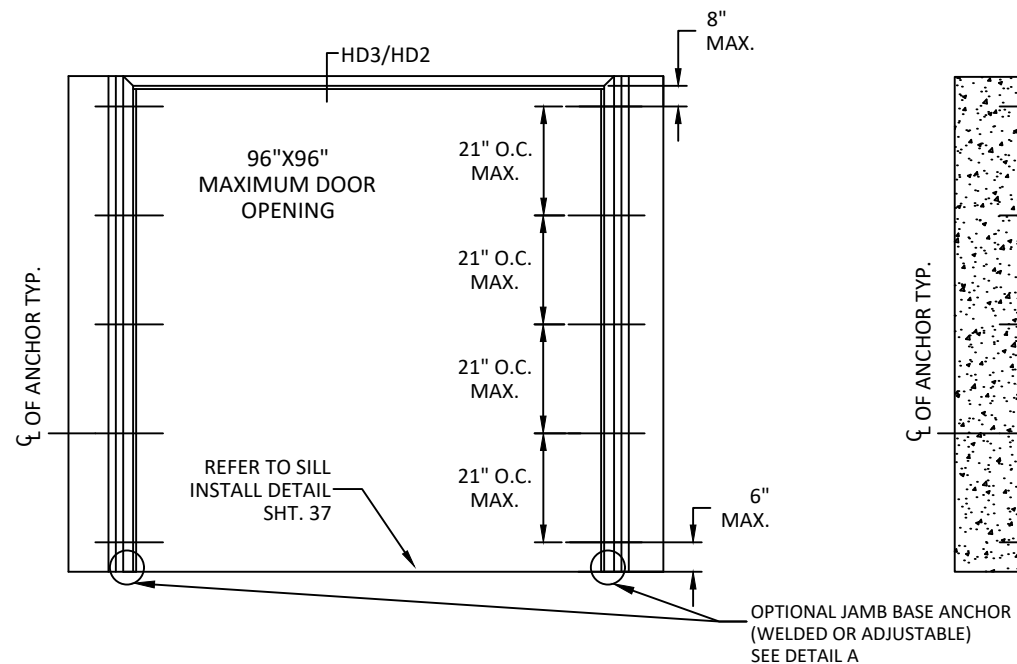
REMARKS	BY	DATE
HINGE UPDATE	SM	02.26.24
MPP/ANCHOR UPDATE	SH	06.14.24
LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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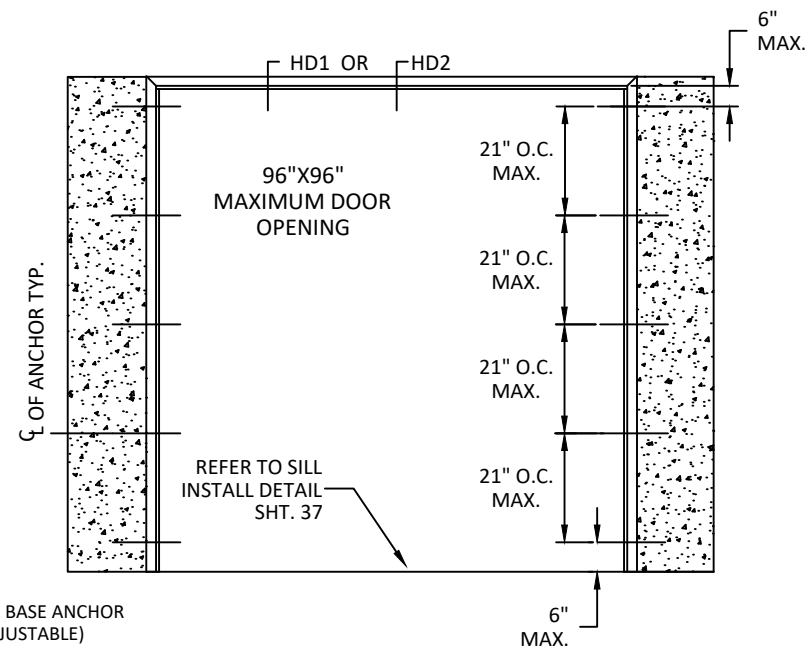


FL12400
DATE: 04.18.22
DWG. BY: CPA
CHK. BY: HFN
SCALE: NTS
DWG. #: IRGD07
SHEET: 32
OF 37

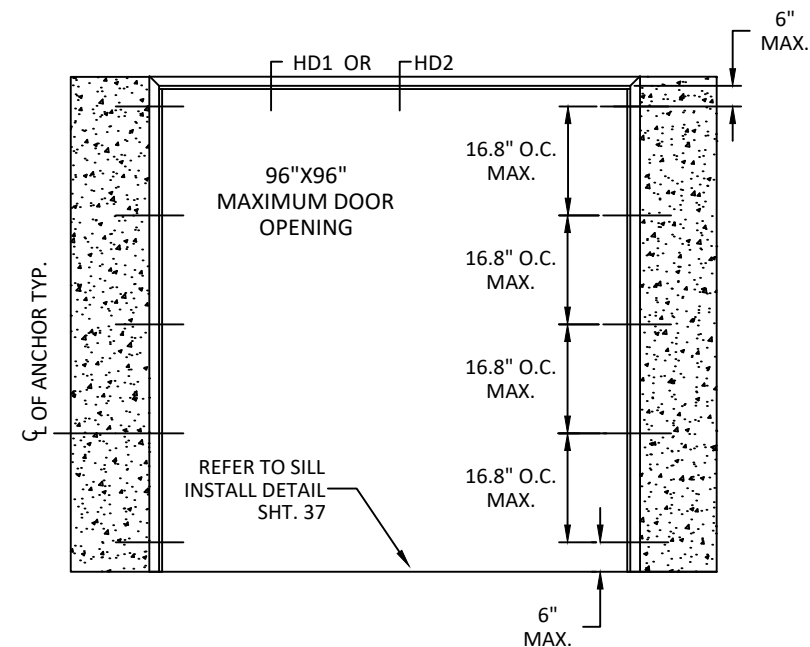
3A STEEL STUD ANCHOR UP TO 90 PSF



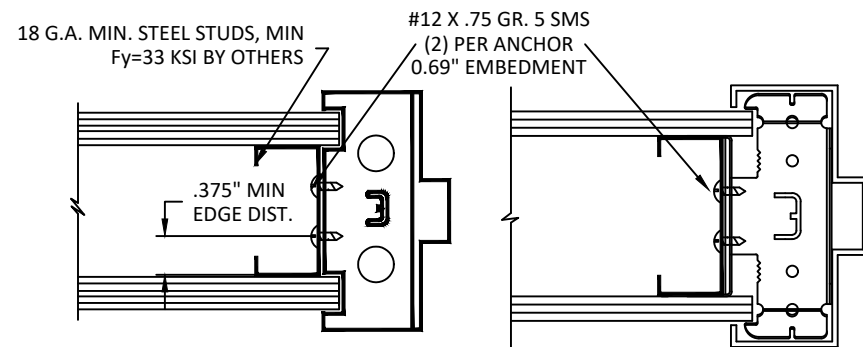
4 PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU UP TO 75 PSF



4A PREPARED OPENING ANCHOR (POA) INTO CONCRETE WALL OR CMU UP TO 90 PSF

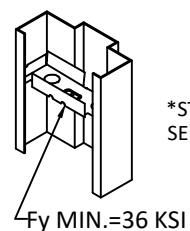


SEE PAGE 14 FOR
OPTION 1 ANCHOR DETAILS

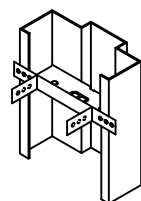


STEEL STUD ANCHOR
WELD-IN OR LOCK-IN

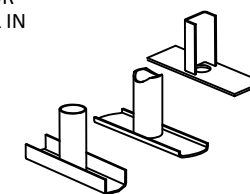
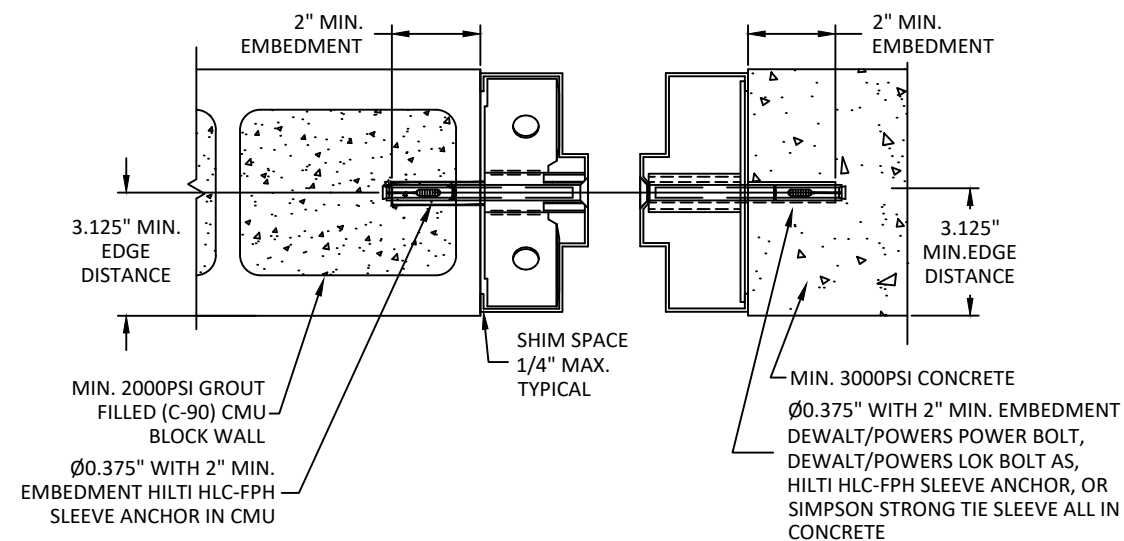
UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN



*STEEL STUD WALLS
SEE NOTE 11, SHT. 1

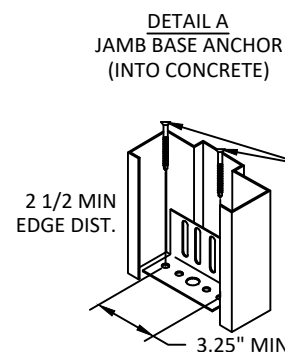


Fy MIN.=36 KSI



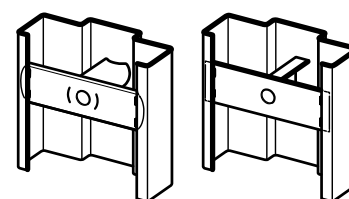
TUBE & PLATE
WELD-IN EMA
ANCHOR

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 375#/FT. FOR ASSEMBLIES RATED @ 90 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.SEALED 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.

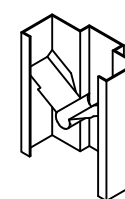


DETAIL A
JAMB BASE ANCHOR
(INTO CONCRETE)

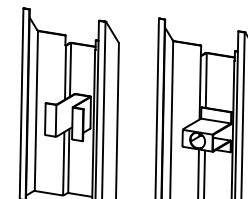
(3 KSI MIN.)
Ø0.375" WITH 2"
MIN. EMBEDMENT
DEWALT/POWERS POWER
BOLT, DEWALT/POWERS
LOK BOLT AS,
HILTI HLC-FPH SLEEVE
ANCHOR, SIMPSON STRONG
TIE SLEEVE-ALL OR 3/8" LAG
BOLT INTO (2) 2X WOOD
SILL (SG=0.55)



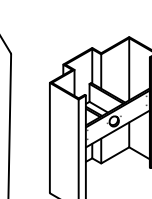
TUBE/CHANNEL &
PLATE BOLT-IN



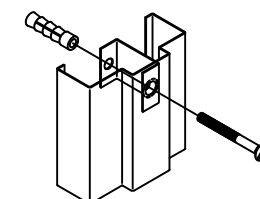
LOCK-IN



POA ANCHOR



WELD-IN



POA ANCHOR



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

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

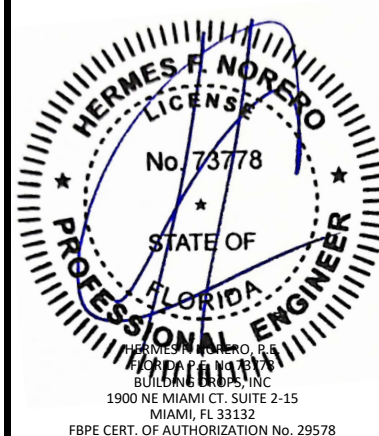
REPUBLIC DOORS: ANCHORS - STEEL STUD
& EMA INTO CONCRETE WALL OR CMU

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



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FL12400

DATE: 04.18.22

DWG. BY:
CPA

CHK. BY:
HFN

SCALE: NTS

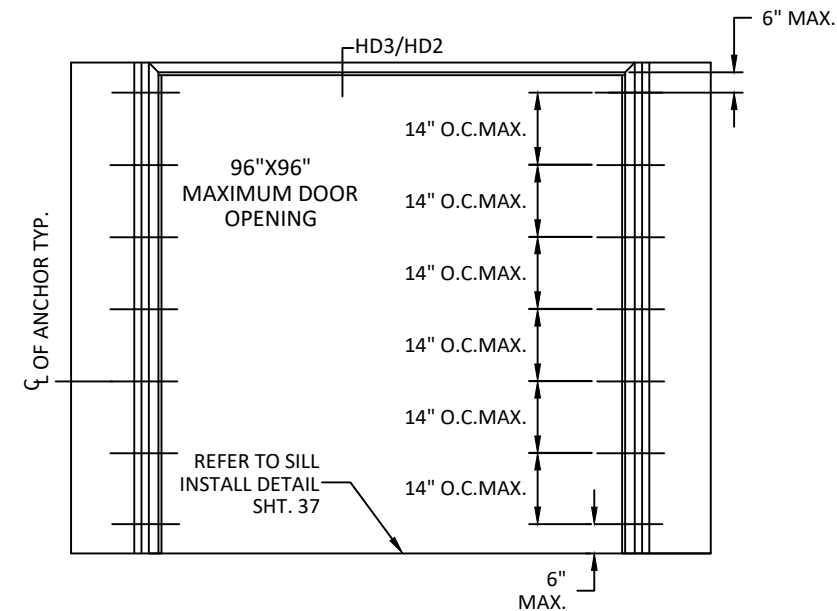
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SHEET:

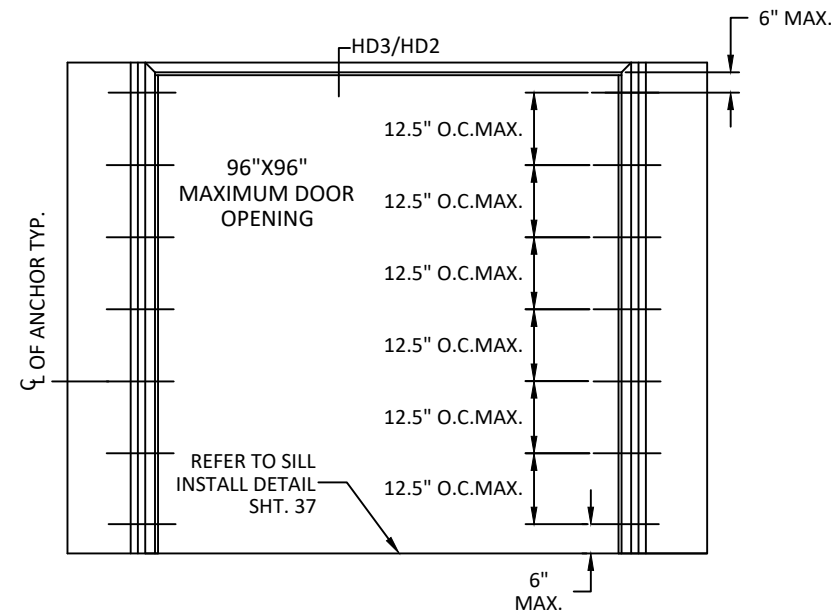
33

OF 37

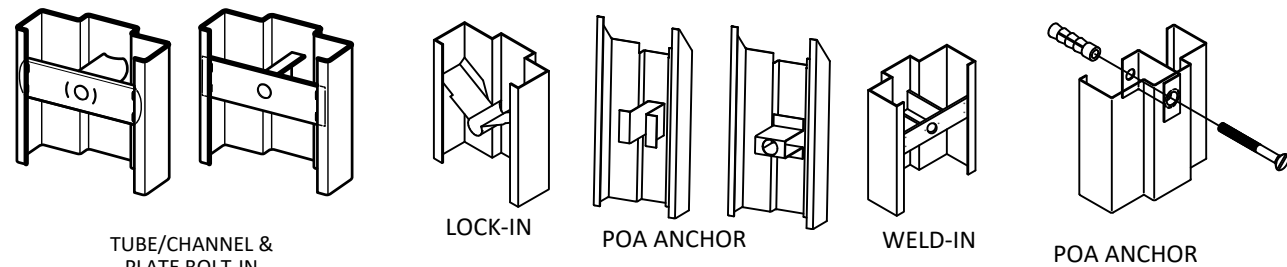
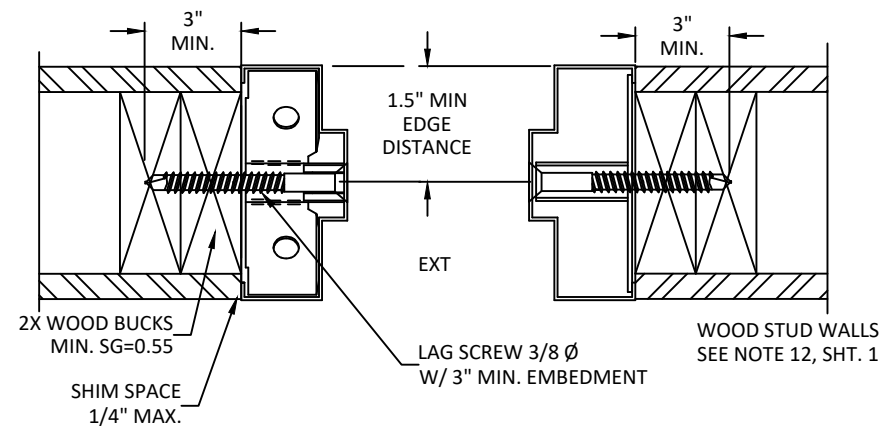
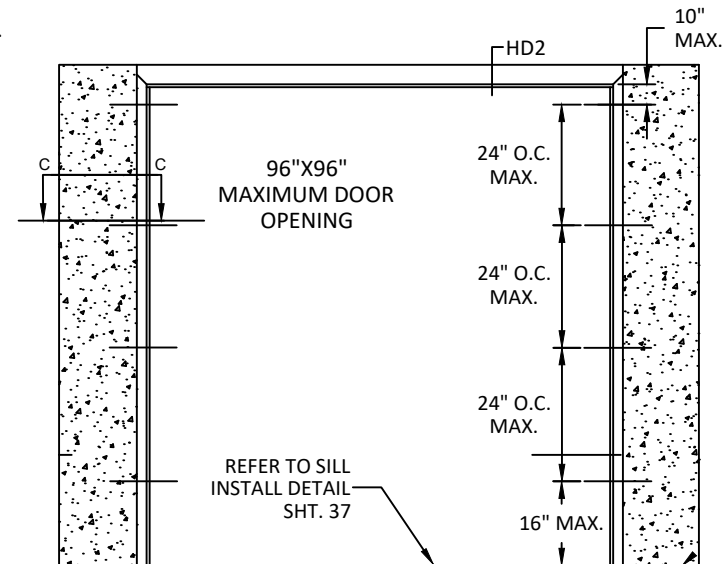
5 PREPARED OPENING ANCHOR (POA) WITH LAG
BOLT INTO WOOD STUD WALL
UP TO 75 PSF



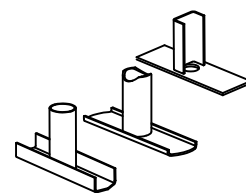
5A PREPARED OPENING ANCHOR (POA) WITH LAG
BOLT INTO WOOD STUD WALL
UP TO 90 PSF



6A POURED CONCRETE
TILT UP WALL
UP TO 90 PSF

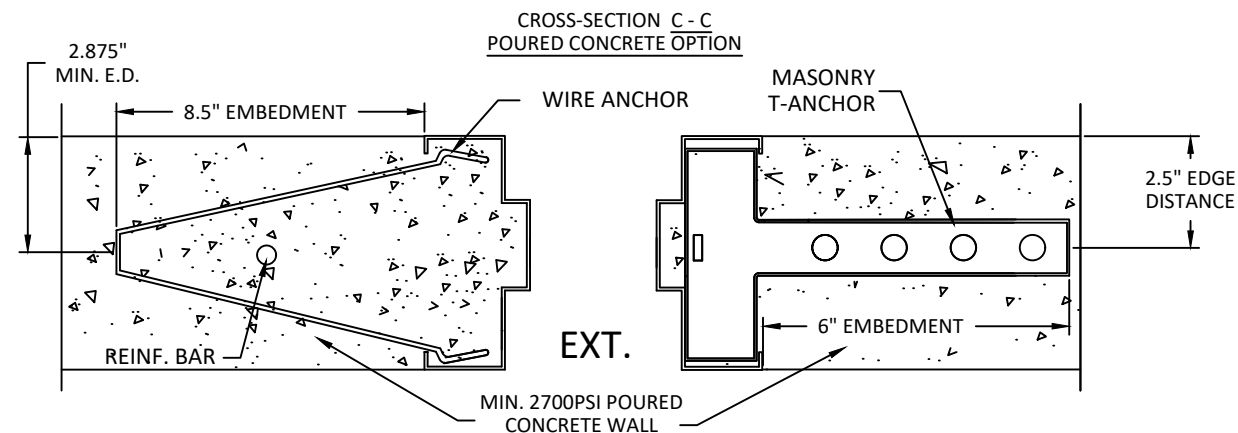


NOTES:
1.(*)WOOD OR (*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
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4.INSTALL 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.

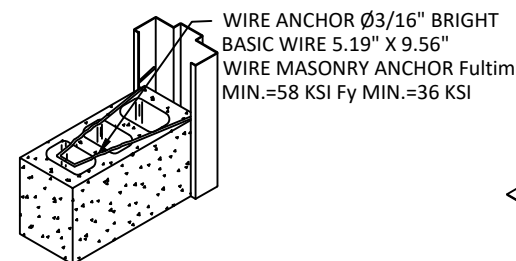


TUBE & PLATE
WELD-IN EMA
ANCHOR

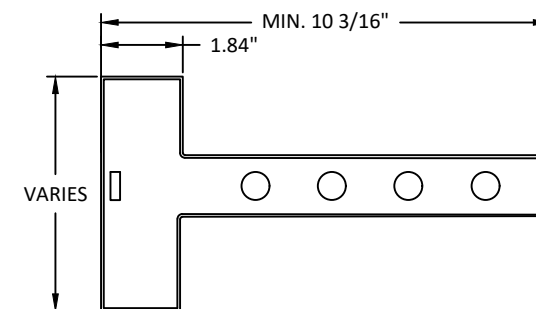
NOTE:
1. 3/8" LAG SCREWS TO BE MIN. SAE GRADE 2 OR EQUIVALENT.



MASONRY BLOCK WALLS
CMU (C-90) 2000 PSI
GROUT FILLED

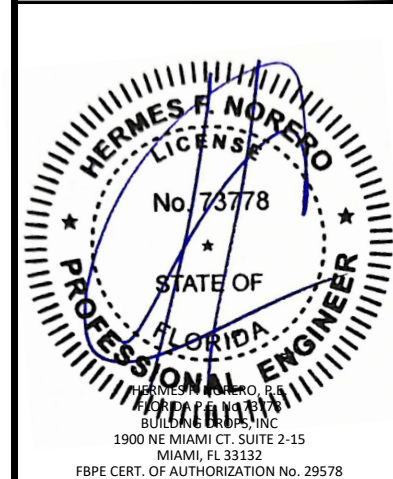


MASONRY
T-ANCHOR



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LOCK UPDATE	JA	09.09.24
MISC UPDATE	DI	12.09.25

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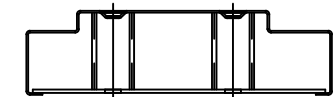


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DATE: 04.18.22	
DWG. BY: CPA	CHK. BY: HFN
SCALE: NTS	
DWG. #: IRGD07	
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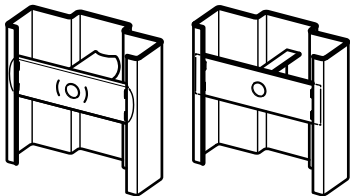
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FRAMES BOLTED TO BUILDING STRUCTURE
UP TO 90 PSF

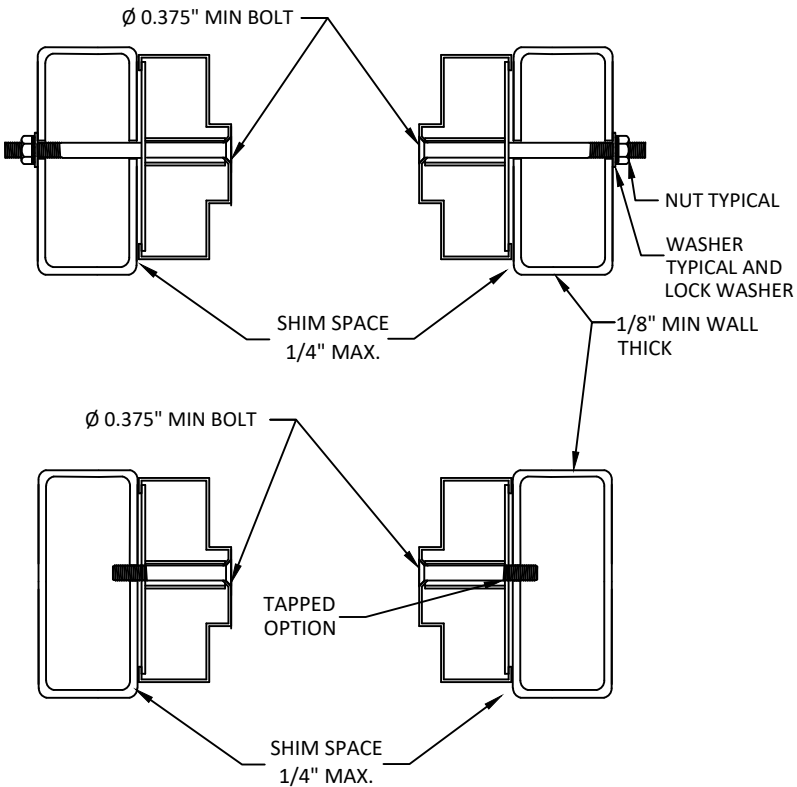
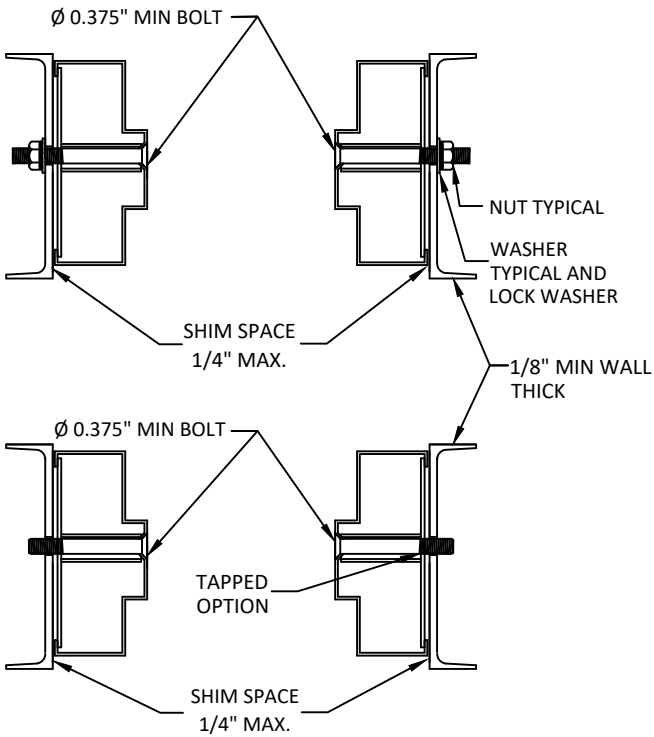
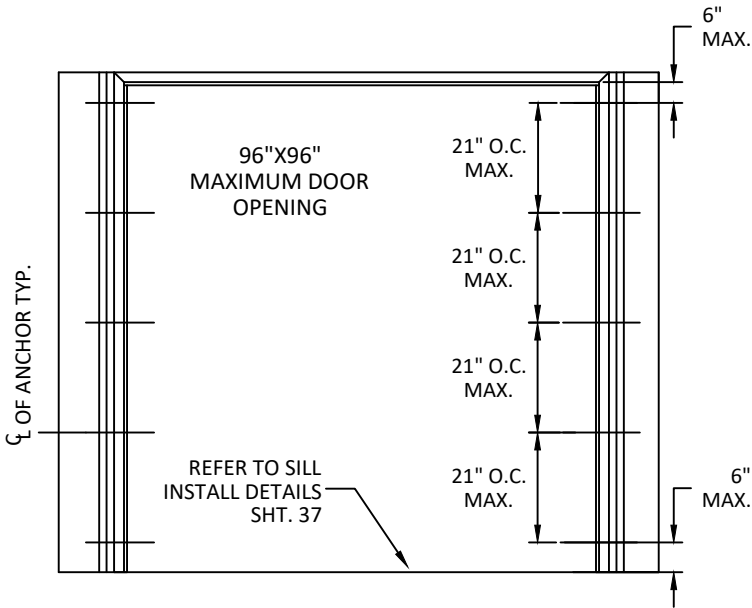
SEE PAGE 16 FOR
OPTION 1 ANCHOR DETAILS



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 ASSEMBLIES RATED @75 PSF,AND 375#/FT. FOR
ASSEMBLIES RATED @ 90 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
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ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES
BOLTED TO BUILDING STRUCTURE

PREPARED BY:

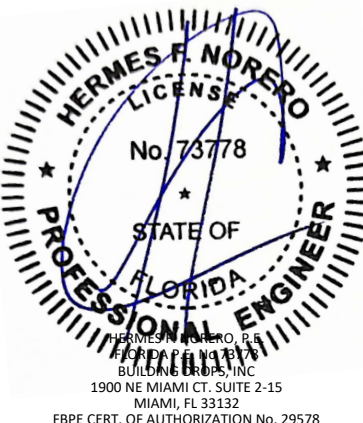
BUILDING DROPS, INC.

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



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. #: IRGD07

SHEET:

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WELDED ANCHOR
SHIM OR STEEL BUILDING STRUCTURE
UP TO 90 PSF



TITLE: OUTSWING DOUBLE GLAZED
COMMERCIAL STEEL DOORS
(HVHZ)(IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

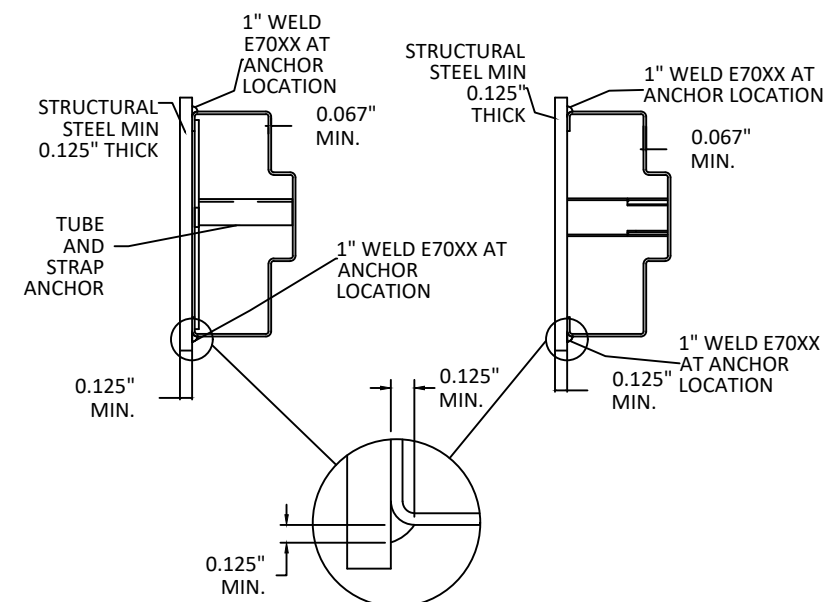
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Diagram illustrating the vertical dimensions and annotations for a door opening:

- Overall height dimension: 96" X 96" MAXIMUM DOOR OPENING.
- Vertical spacing dimensions (O.C. = On Center):
 - 21" O.C. MAX. (between horizontal lines)
 - 21" O.C. MAX. (between horizontal lines)
 - 21" O.C. MAX. (between horizontal lines)
 - 21" O.C. MAX. (between horizontal lines)
- Top and bottom edge dimensions: 6" MAX. (indicated by arrows pointing to the top and bottom edges).
- Annotation: REFER TO SILL INSTALL DETAILS SHT. 37 (with an arrow pointing to the bottom edge).
- Left side annotation: ζ OF ANCHOR TYP. (with an arrow pointing to the left edge).



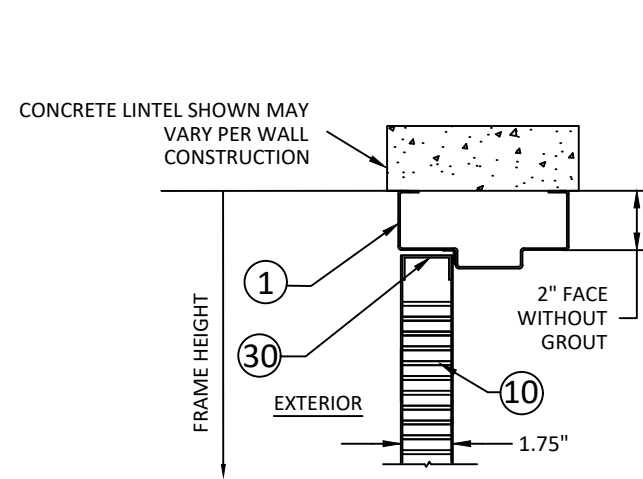
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HERMES F. NOREGO, P.E.
 1000 PAPER DRIVE
 BUILDING GROUP, INC
 1900 NE MIAMI CT, SUITE 2-15
 MIAMI, FL 33132
 FBPE CERT. OF AUTHORIZATION NO. 29578

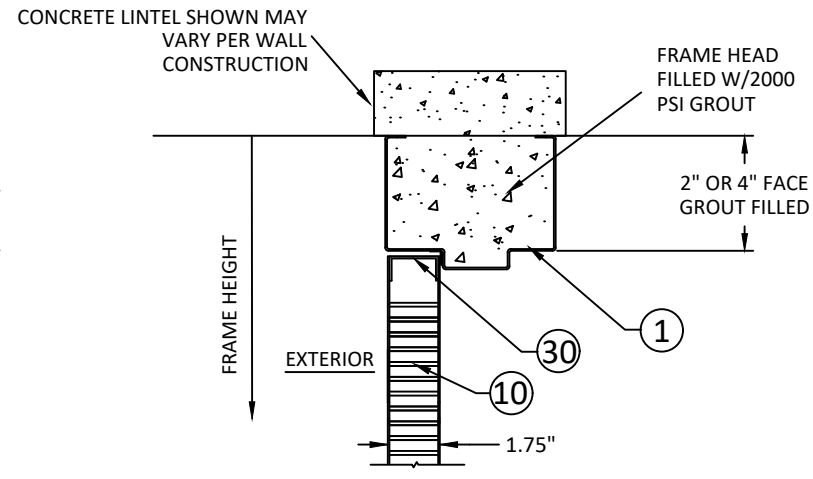
SHEET:

OF 37

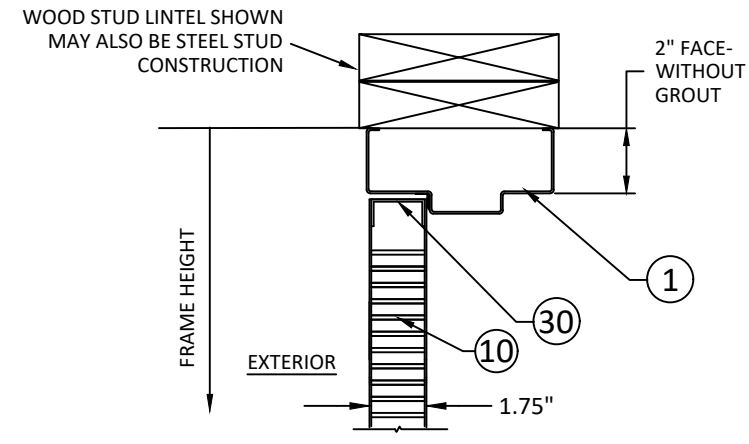
SEE PAGE 18 FOR
OPTION 1 ANCHOR DETAILS



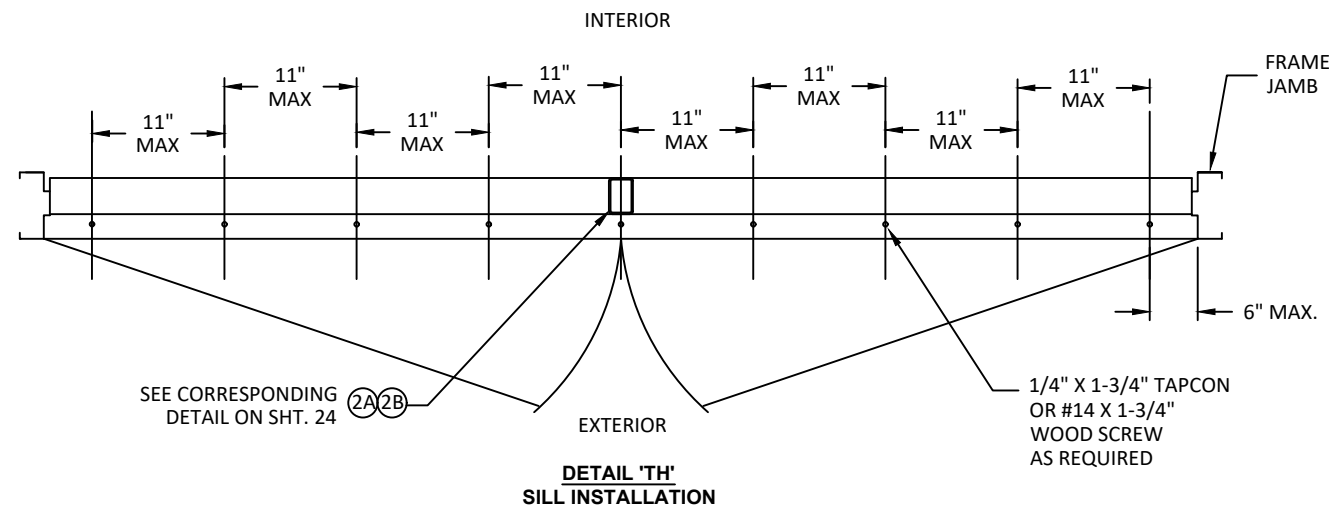
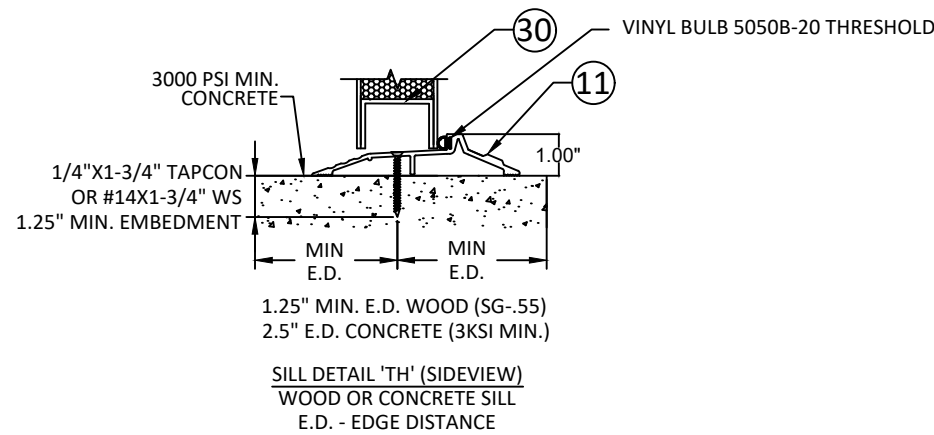
HD1 - FRAME HEAD SECTION



HD2 - FRAME HEAD SECTION



HD3 - FRAME HEAD SECTION



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REPUBLIC DOORS: FRAME HEAD &
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