

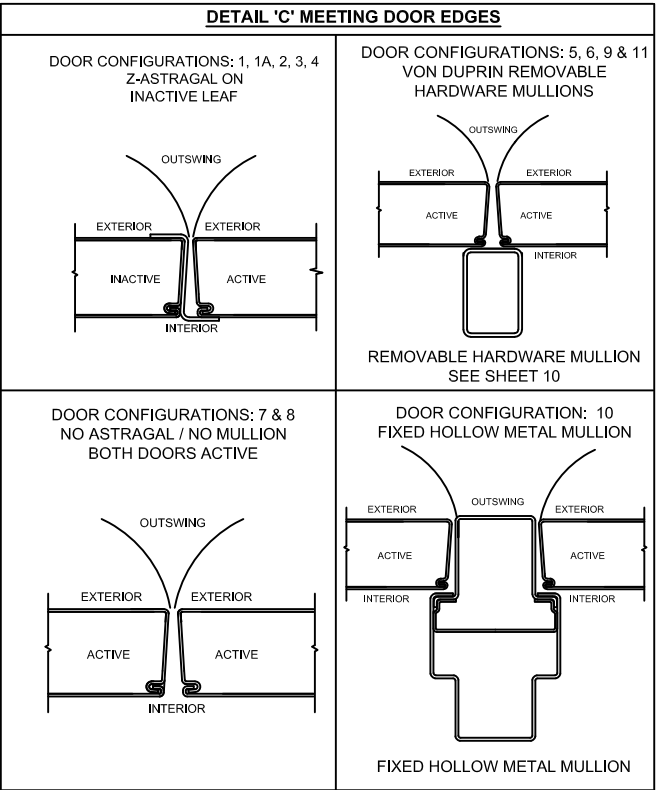
Door Configuration	Maximum Design Pressure, PSF		Maximum Door Opening Size, in.		Locking Hardware Description				Comments
	Positive	Negative	Width	Height	Hardware Family	Model/Series	Strike Models	Brand	
1	75	75	96	96	Mortise Lock with Deadbolt Thrown	L/LV9400, AD-MD & CO-MD, PM400	10-072	Schlage	Function with deadbolt, 3/4" min. throw latch & 1" min throw deadbolt
						LE-MD, LEB-MD	10-072	Schlage	
						XE-360-M-D	10-072	Schlage	
						MA	ANSI	Falcon	
1A	60	60	96	96	Mortise Lock without Deadbolt Thrown	L/LV9000, AD-MS, & CO-MS, PM	10-072	Schlage	Function without deadbolt, 3/4" min. throw latch
						LE-MS, LEB-MS	10-072	Schlage	
						LE-MB, LEB-MB			
						XE360-M-B & XE360-M-I	10-072	Schlage	
	50	50	96	96		MA	ANSI	Falcon	
2	55	55	96	96	Cylindrical Lock	AL	10-025	Schlage	1/2" min. throw latch
3	65	65	96	96	Cylindrical Lock	D, ND, NDE, NDEB, AD-CY & CO-CY	10-025	Schlage	1/2" min. throw latch
						ALX_PC	ANSI		1/2" min. throw latch (13-247, 14-028)
						T, TM	ANSI	Falcon	1/2" throw latch (23981145)
4	75	75	96	96	Cylindrical Lock	D, ND, NDE, NDEB, AD-CY & CO-CY	10-025	Schlage	3/4" min. throw latch
						ALX_PC	ANSI		3/4" min. throw latch (14-042)
						T, TM	ANSI	Falcon	3/4" throw latch (23981152)
5	90 SEE NOTE 4.	90 SEE NOTE 4.	96	96	Rim Exit Device	XP98/99 & XP98/99-F	909/954	Von Duprin	For pairs use HH9954 Von Duprin Mullion
5A	70	70	96	96	Rim Exit Device	XP98/99 & XP98/99-F	909/954	Von Duprin	For pairs use 9964 or KR9964 Von Duprin Mullion
6	70	70	96	96	Rim Exit Device	88-F	468	Von Duprin	For pairs use Von Duprin Hardware Mullion
						98, 99, 98-F, 99-F	499F	Von Duprin	
						HH78, HH78-F	499F	Von Duprin	
7	70	70	96	96	Surface Vertical Rod Exit Device	9827, 9927, 9827-F, 9927-F	299F/499F Top, 304L Bottom	Von Duprin	
						HH7827, HH7827-F	299F/499F Top, 304L Bottom	Von Duprin	
						F-25-V & 25-V	3788 Top, 2130 Bottom	Falcon	
8	70	70	96	96	Concealed Vertical Rod Exit Device	9847-F, 9947-F, HH9847, HH9947	338 Top, 304L Bottom	Von Duprin	HH98/9947 devices have a 2-3/4" backset
						HH7847, HH7847-F	338 Top, 304L Bottom	Von Duprin	HH7847 devices have a 2-3/4" backset
						F-25-C	4188 Top, 2130 Bottom	Falcon	
8A	75	75	98	98	Concealed Vertical Rod Exit Device	3349A, 3549A, 3349A-F, 3549A-F	249 Top, 349 Bottom	Von Duprin	
						9849, 9949, 9849-F, 9949-F	249 Top, 349 Bottom		
9	70	70	96	96	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
10	70	70	48	96		9857, 9957, 9857-F, 9957-F	299F/499F Top 499F Middle 304L Bottom	Von Duprin	See note #2
11	70	55	96	96	Rim Exit Device	F-25-R & 25-R	499F	Falcon	for pairs use Von Duprin Hardware Mullion

TABLE 1.

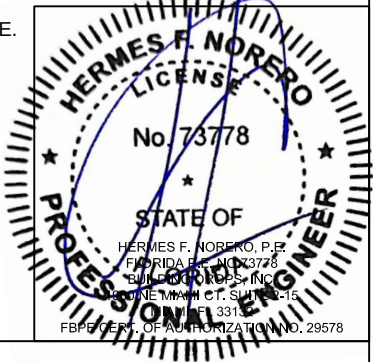
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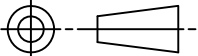
1. FOR DOOR CONFIGURATIONS 1, 1A, 2, 3, & 4, INACTIVE LEAF REQUIRES IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM, EACH ATTACHED WITH (4) #12-24 OVAL HEAD MACHINE SCREWS AND SEX BOLTS.
2. DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS
3. SEE SHEETS 6 THROUGH 9 FOR LOCKING HARDWARE AND HARDWARE MULLION DETAILS
4. DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE ± 90 PSF WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED, WHEN WATER INFILTRATION REQUIREMENT IS NEEDED, IT IS RATED UP TO +75 PSF WHEN USED WITH SEALS BY ZERO INTERNATIONAL AND NATIONAL GUARD PRODUCTS (NGP) (SEE TABLE 3 ON SHT.4)
5. ALL FINISHES, 3' AND 4' DOOR WIDTH MODELS OFFERED.
6. ELECTRIFIED AND FIRE RATED OPTIONS OF APPROVED HARDWARE ARE ACCEPTABLE. INSTALLATION AND APPLICATION IS UNDER SEPARATE APPROVAL AND IS REVIEWED BY THE CORRESPONDING AUTHORITY.
7. THIS COMPONENT DEVICE IS APPROVED AS AN EQUAL ALTERNATE FOR DOUBLE 16 GA. STEEL OUTSWING COMMERCIAL DOORS HOLDING CURRENT NOA OR HVHZ COMPLIANT FBC APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE EQUAL TO THAT OF THE LOWEST RATED COMPONENT, EITHER THE HARDWARE OR THE DOOR.
8. THE HARDWARE SHOULD BE INSTALLED IN COMMERCIAL STEEL DOOR NO WIDER THAN 48" AND NO HIGHER THAN 96".
9. OPTIONAL SIGNAL SWITCH AND POWER TRANSFER UNITS MAY BE USED AS ALLOWED BY CODE AND IF IT DOESN'T AFFECT THE MECHANICAL PROPERTIES OF THE HARDWARE AND/OR INHIBIT EGRESS. TO BE REVIEWED BY BUILDING OFFICIAL.
10. THIS HARDWARE CAN BE INSTALLED AS PART OF A LARGE MISSILE IMPACT RESISTANT UNIT 50 F/S.
11. FIRE RATING IS NOT PART OF THIS APPROVAL, CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.

REVISIONS			
LTR	DESCRIPTION	ENG	DATE
A	APPROVAL DWG	YMF	05/20/07
O	REVISED DWG	JPD	07/18/18
P	LOCK UPDATE	YC	11/27/19
Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	CODE UPDATE	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25



Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2025.12.11 14:29:08 -05'00'



BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
 THIRD ANGLE PROJECTION		TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS			
DRAWN YMF	DATE 05/20/07	FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS COMMERCIAL DOOR OPENING DOUBLE FLUSH DOORS.			
CHECKED					
APPROVED		SIZE	FLAT	DWG NO. IRFD07C	REV U
ENG. APPVL JPD	10/12/07	SCALE:	NTS	AUTOCAD	FL14482 SHEET 1 OF 10

COMPLIANCE STATEMENT:
THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS
201, TAS 202 & TAS 203-94, ASTM PROTOCOLS E283-04(12), E330-14
AND E331-00(09), AND COMPLY WITH THE CURRENT EDITION OF THE
FLORIDA BUILDING CODE

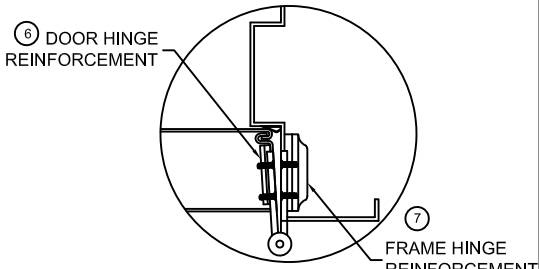
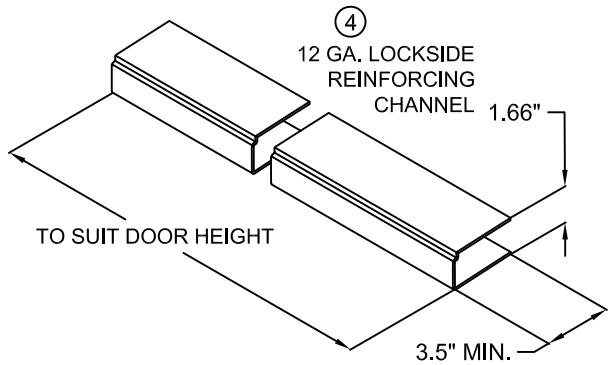
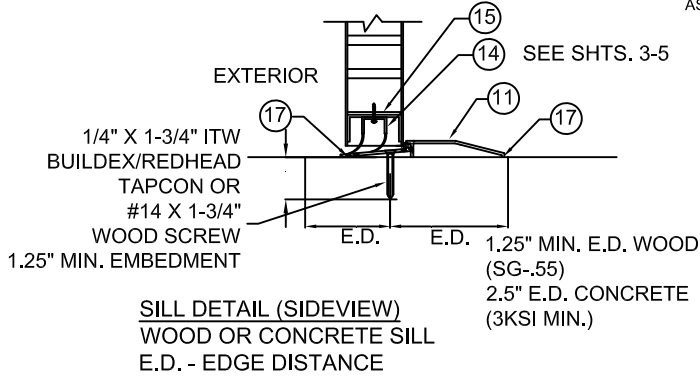
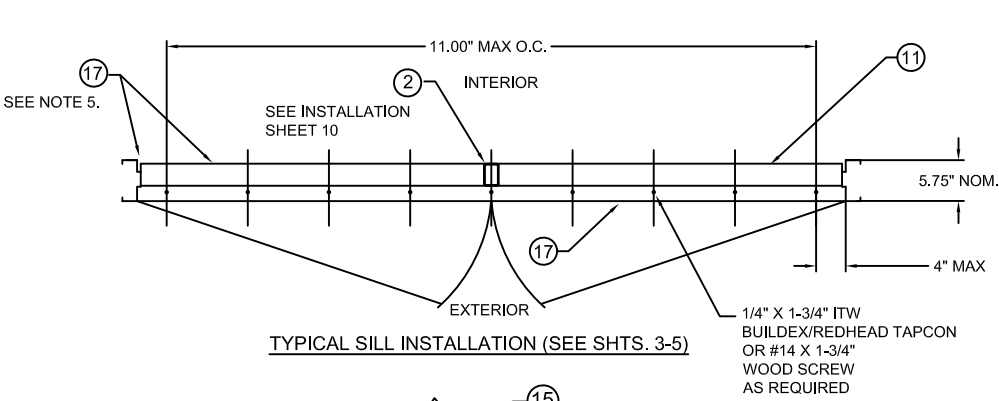
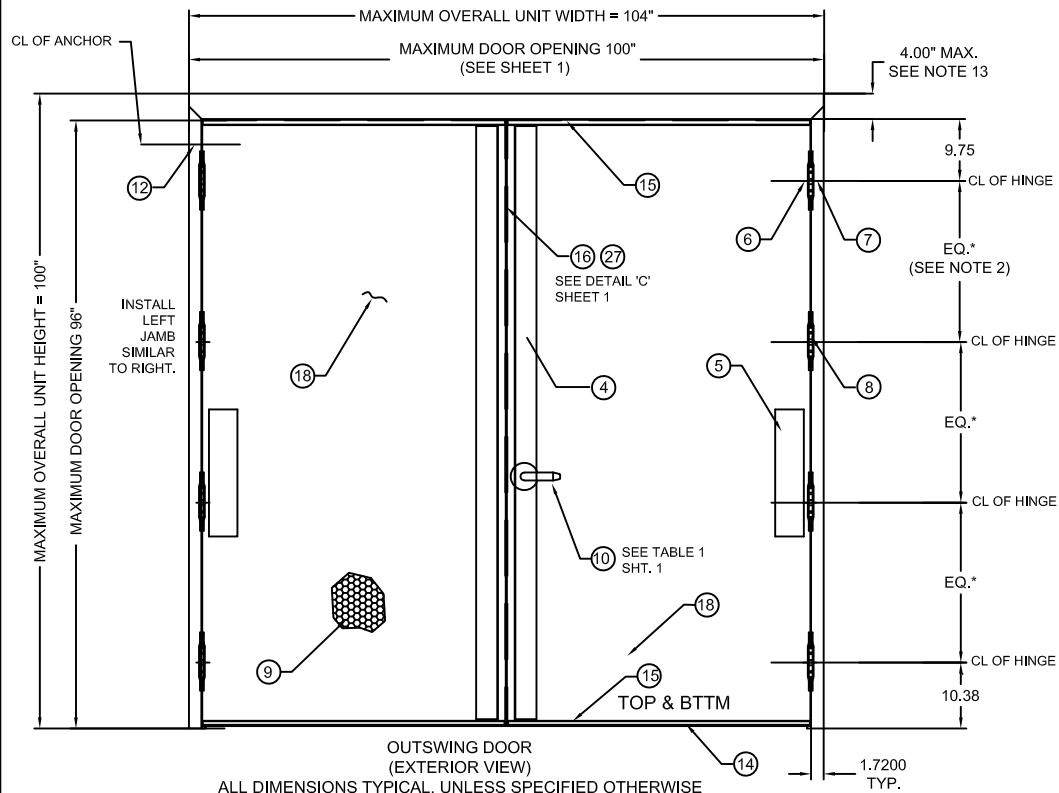
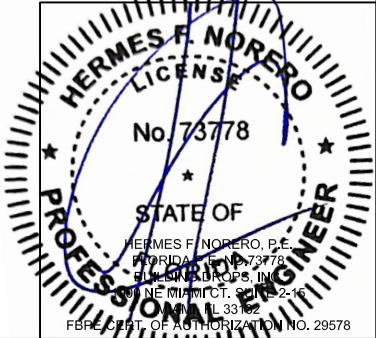
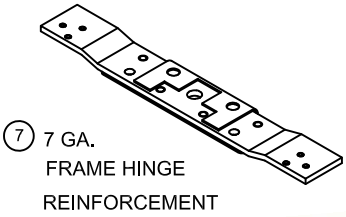
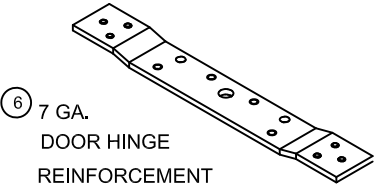


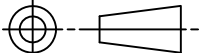
TABLE 2

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
2	1	A) VON DUPRIN HH9954 HARDWARE MULLION	.312" A500 STL	MAX. 96" HEIGHT
		B) VON DUPRIN 9964 OR KR9964 HARDWARE MULLION	.118" A500 STL	MAX. 96" HEIGHT
4	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.
5	2	HINGE SIDE PANIC REINFORCEMENT	.067" MIN. STL	MAX. 20"
6	NOTE 2	HINGE REINFORCEMENT DOOR ASTM A621	.167" MIN. STL	1.23" X 9.19" MIN.
7	NOTE 2	HINGE REINFORCEMENT FRAME ASTM A621	.167" MIN. STL	1.5" X 9.19" MIN.
8	NOTE 2	4.5" X 4.5" BUTT HINGES (SEE SHT. 10)	.134" MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 10)	.75" MIN. STL / .12" ALUM	MAX. 95"
10	2	LOCKING HARDWARE - SEE TABLE 1, SHT. 1		
11	1	11A) 566 ZERO WATER RATED SHTS. 3 & 4 NON WATER SHT. 5	.125" ALUM. 6063-T5	5" X .5" X 96" MAX.
		11B) 65 ZERO NON WATER RATED SHT. 5	.125" ALUM. 6063-T5	
		11C) 568 ZERO NON WATER RATED SHT. 5	.125" ALUM. 6063-T5	6" X .5" X 96" MAX.
13	SEE SHTS. 3, 4 & 5	13A) PS074 DOOR SEAL STEELCRAFT	TPE	VARIES
		13B) 188S	SILICONE	
		13C) 117S		
		13D) 8144S		
		13E) 8150S DOOR SEAL ZERO		
14	2	FAS-SEAL DOOR SWEEP SEE SHTS. 3, 4 & 5	TPE	47.66" MAX,
16	1	16A) 328 SPLIT ASTRAGAL BY ZERO INT'L	SEE SHTS. 3 & 4	
17	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHTS. 3, 4 & 5	
19	1	19A) 8150S DOOR SEAL BY ZERO INT'L SEE SHTS. 3 & 5	TPE	24" MAX.
		19B) 188S DOOR SEAL BY ZERO INT'L SEE SHTS. 4 & 5		
20	4		TPE	96" MAX.
21	2	21A) 139 DOOR SWEEP BY ZERO INT'L	SEE SHTS. 4 & 5	96" MAX. FOR VERTICAL 48" MAX. FOR HORIZONTAL
		21B) 328 DOOR SWEEP BY ZERO INT'L		
		21C) 39 DOOR SWEEP BY ZERO INT'L		
22	2	22A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHT. 4	TPE	48" MAX.
23	1	23A) 142 RAIN DRIP BY ZERO INT'L	SEE SHTS. 3 & 4	104" MAX.
	2	23B) 11 RAIN DRIP BY ZERO INT'L		48" MAX.
24	2	TOP CAP GALV. A60 ASTM A924	.020" MIN. STL	.5" X 1.76" X 48" MAX.
25	2	IVES 360 SURFACE BOLT	STL	12" MIN. - 24" MAX. LENGTH
26	1	ASA STRIKE		

- NOTES:
1. SEE SHEET 13 FOR MULLION INSTALLATION.
 2. 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: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE
10.38" 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.
FOR APPROVED CONTINUOUS AND BUTT HINGE MODELS SEE SHEET 13.
 3. SEE SHEETS 1 & 2 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
 4. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS OR AS REQUIRED BY THIS APPROVAL.
 5. APPLY CAULK TO FULL LENGTH OF SILL AND ENTIRE PERIMETER OF FRAME. SEE SHEETS 3-5.
 6. SEE SHEET 6, 8 AND 9 FOR EXIT HARDWARE OPTIONS
 7. PN EXIT DEVICE MODELS AVAILABLE.
 8. 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 IS NOT PART OF THIS APPROVAL. CONSULT MANUFACTURER FOR APPROVED CONFIGURATIONS.
 9. OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND/OR INHIBIT EGRESS, TO BE REVIEWED BY BUILDING OFFICIAL.
 10. WEATHERSTRIPPING:
- WHEN WATER INFILTRATION IS REQUIRED INSTALL PER SHEETS 4 OR 5 AS APPLICABLE
- WHEN WATER INFILTRATION IS NOT REQUIRED INSTALL PER SHEETS 6 AS APPLICABLE
 11. SILL SHALL BE ANCHORED PER INSTALLATION DETAIL ON THIS SHEET AND SHEETS 3-5.
 12. GASKETING QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHEETS 3-5 FOR DETAILS.
 13. HEAD SECTION CAN HAVE 4" FACE DIMENSIONS WHEN IT'S GROUTED WITH CONCRETE.

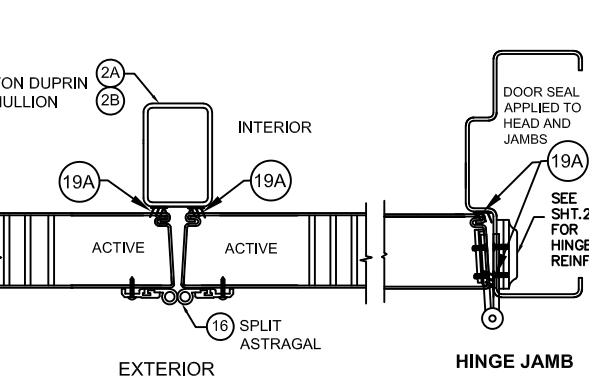
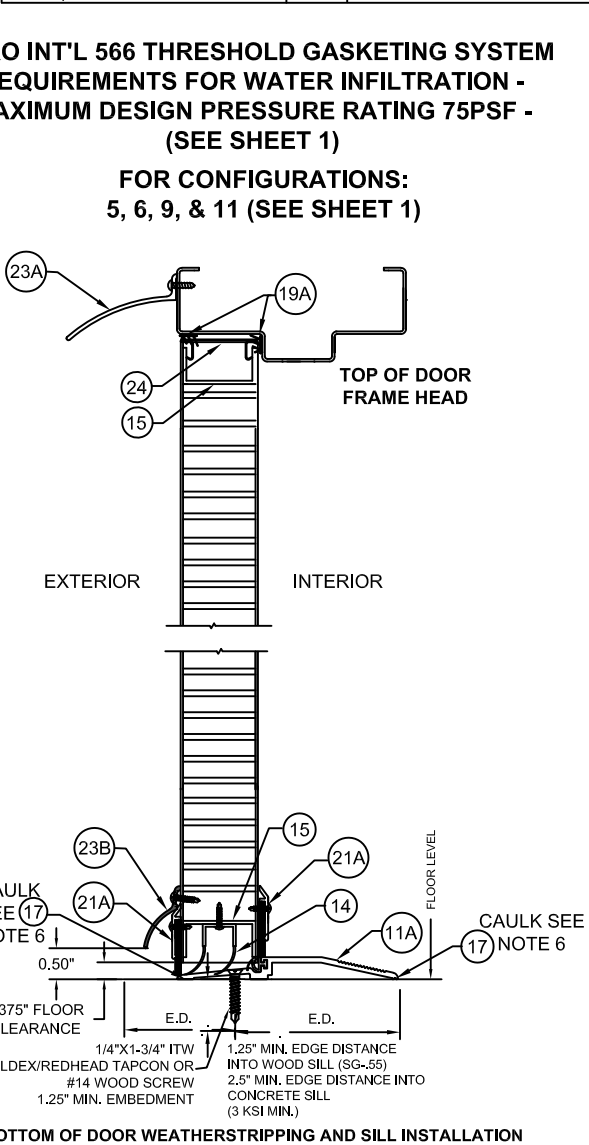
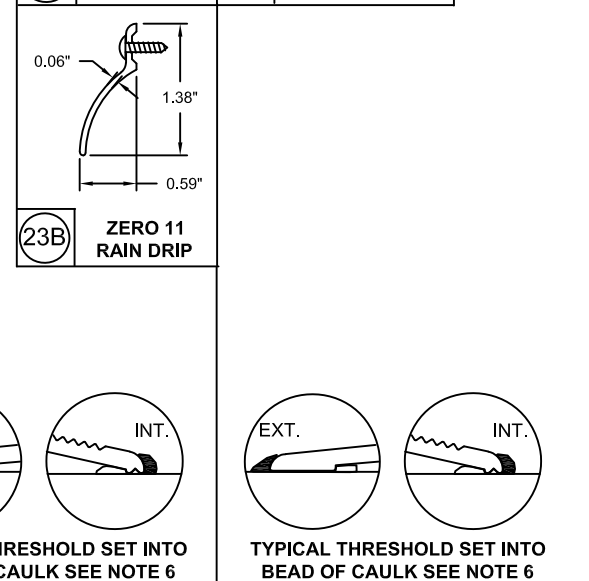
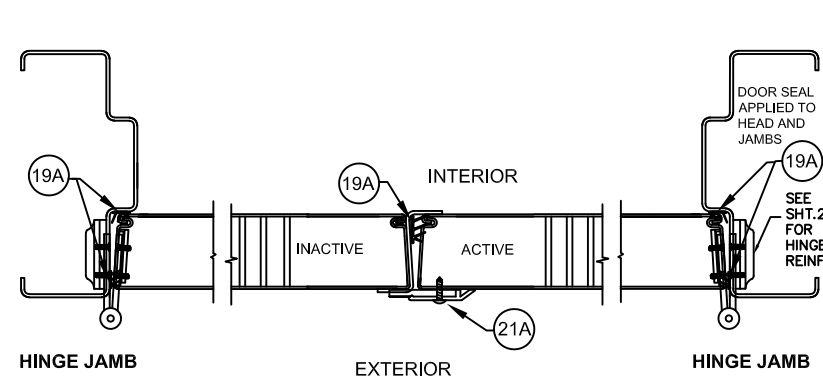
REVISIONS			
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A	APPROVAL DWG	YMF	05/20/07
O	REVISED DWG	JPD	07/18/18
P	LOCK UPDATE	YC	11/27/19
Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	CODE UPDATE	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25



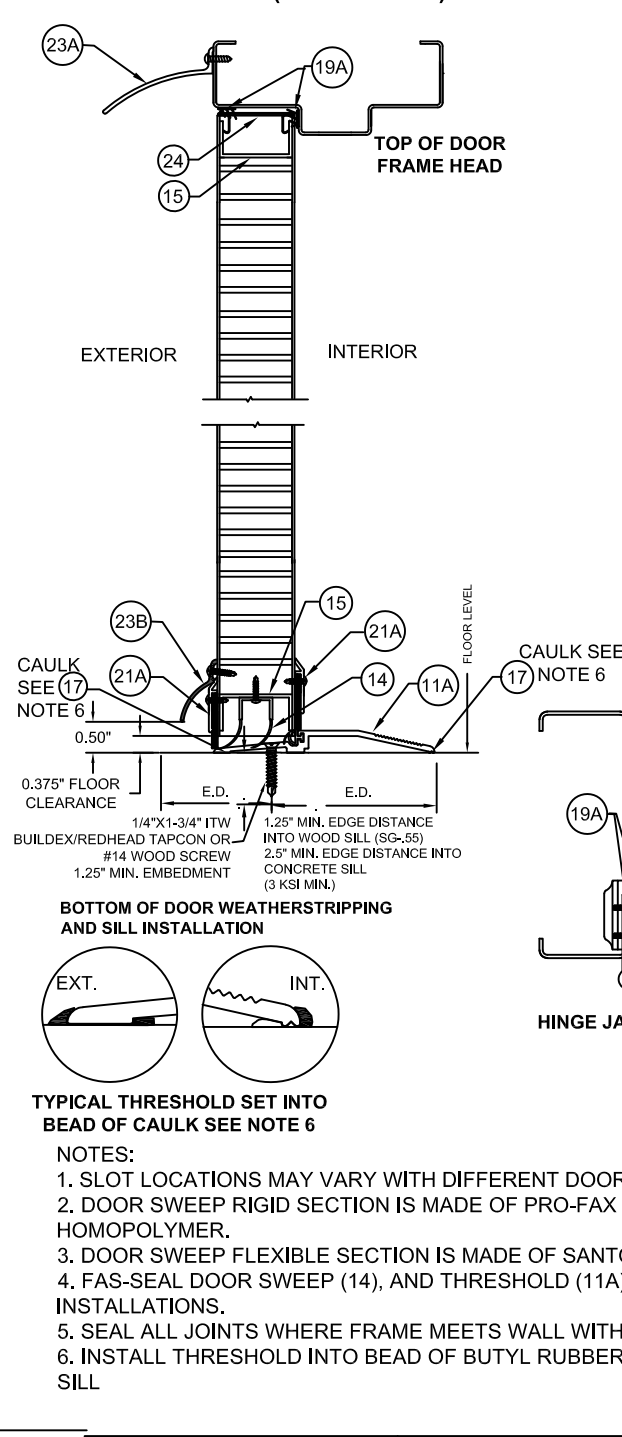
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THIRD ANGLE PROJECTION		TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS				
DRAWN YMF	DATE 05/20/07	H SERIES FLUSH DOUBLE DOORS OUTSWING CONFIGURATIONS				
CHECKED						
APPROVED		SIZE	FLAT	DWG NO.	IRFD07C	REV U
ENG. APPVL JPD	10/12/07	SCALE:	NTS	AUTOCAD	FL14482.3	SHEET 2 OF 10

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11A	566 THRESHOLD	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
16A	328 SPLIT ASTRAGAL	ZERO INT'L
19A	8150S DOOR SEAL	ZERO INT'L
21A	139 DOOR SWEEP	ZERO INT'L
23A	142 RAIN DRIP	ZERO INT'L
23B	11 RAIN DRIP	ZERO INT'L
24	DOOR TOP CAP	STEELCRAFT

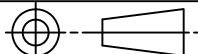
**FOR CONFIGURATIONS:
1, 1A, 2, 3 & 4 (SEE SHEET 1)**



**FOR CONFIGURATIONS:
7 & 8 (SEE SHEET 1)**



REVISIONS			
LTR	DESCRIPTION	ENG	DATE
A	APPROVAL DWG	YMF	05/20/07
O	REVISED DWG	JPD	07/18/18
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Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	DESCRIPTION	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25

BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS					
DRAWN	DATE	DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS REQUIRED					
YMF	05/20/07						
CHECKED							
APPROVED		SIZE	FLAT	DWG NO.		IRFD07C	REV
							U
ENG. APPVL	10/11/07	SCALE:	NTS	AUTOCAD	FL14482.3	SHEET	3 of 10
JPD							

REVISIONS			
LTR	DESCRIPTION	ENG	DATE
A	APPROVAL DWG	YMF	05/20/07
O	REVISED DWG	JPD	07/18/18
P	LOCK UPDATE	YC	11/27/19
Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	DESCRIPTION	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25

**11A ZERO INT'L 566 SERIES THRESHOLD
UP TO MAX. DESIGN PRESSURE +/- 75 PSF
(SEE SHEET 1)**

NEOPRENE (full length)

0.25 EXT 0.125 0.50

5.00

47.625 MAX.

3.91 11.25 17.3 11.25 3.91

SEE NOTE 1

RIGID SECTION
SEE NOTE 2.

0.50
FLEXIBLE SECTION
(NOTE 3)

1.25

14 FAS-SEAL DOOR SWEEP

2.50"

#6x.50" SMS

.088"

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

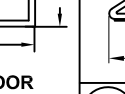
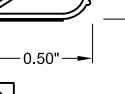
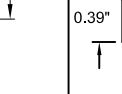
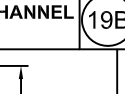
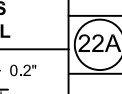
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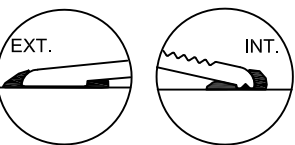
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23A ZERO 142 RAIN DRIP

24 DOOR TOP CAP

 DOOR END CHANNEL	 19B ZERO 188S DOOR SEAL	 22A ZERO 475 ADJUSTABLE SEAL
 21B ZERO 139 DOOR SWEEP	 21B ZERO 328 DOOR SWEEP	 23B ZERO 11 RAIN DRIP



This technical drawing illustrates the assembly of a door frame, showing both the exterior and interior perspectives. The drawing is divided into two main sections: the top section for the upper part of the frame and the bottom section for the lower part, separated by a break line.

Top Section (Upper Frame):

- 23A:** Points to the exterior weatherstripping or seal.
- 19B:** Points to the interior weatherstripping or seal.
- 24:** Points to the top of the door frame head.
- 15:** Points to the top of the door frame head.
- 22A:** Points to the top of the door frame head.
- TOP OF DOOR FRAME HEAD:** A label indicating the top edge of the frame.

Bottom Section (Lower Frame):

- 23B:** Points to the exterior weatherstripping or seal.
- 21A:** Points to the exterior weatherstripping or seal.
- 15:** Points to the top of the door frame head.
- 21B:** Points to the interior weatherstripping or seal.
- 14:** Points to the interior weatherstripping or seal.
- 11A:** Points to the interior weatherstripping or seal.
- CAULK SEE NOTE 6:** A label indicating the location of the caulk.
- 0.50":** A dimension indicating the thickness of the frame.
- 0.375" FLOOR CLEARANCE:** A dimension indicating the clearance between the frame and the floor.
- E.D.:** A label indicating the edge of the door.
- FLOOR LEVEL:** A label indicating the level of the floor.
- (1):** A label indicating the door.

HERMES F. NORERO, P.E.
 FLORIDA LICENSE NO. 73778
 8100 SANDROPS, INC.
 300 NE MIAMI CT. SUITE 2-16
 MIAMI, FL 33132
 FBPE DIST. OF AUTHORIZATION NO. 29578

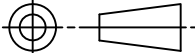
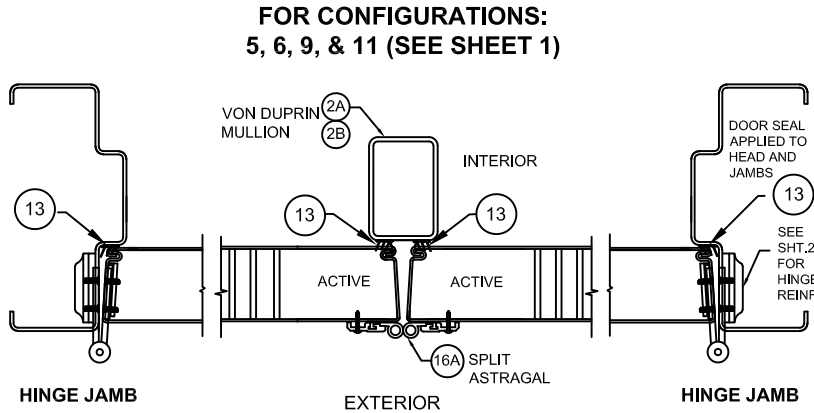
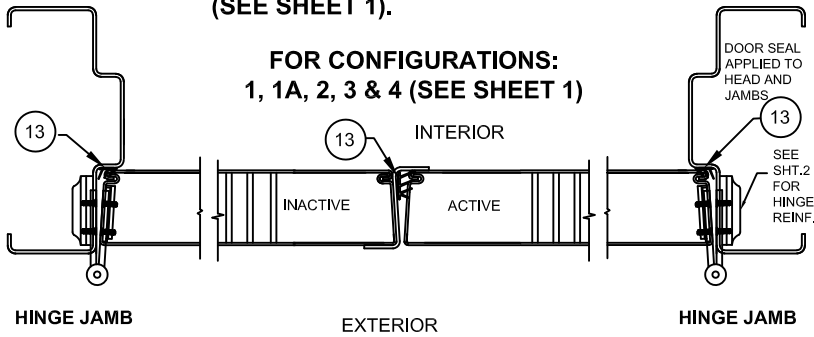
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032						
								
THIRD ANGLE PROJECTION		TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS						
DRAWN YMF	DATE 05/20/07	DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE APPROVED WHERE WATER INFILTRATION IS REQUIRED						
CHECKED								
APPROVED		SIZE	FLAT		DWG NO. IRFD07C		REV U	
ENG. APPVL JPD	10/11/07	SCALE:	NTS	AUTOCAD	FL14482.3	SHEET	4 of 10	

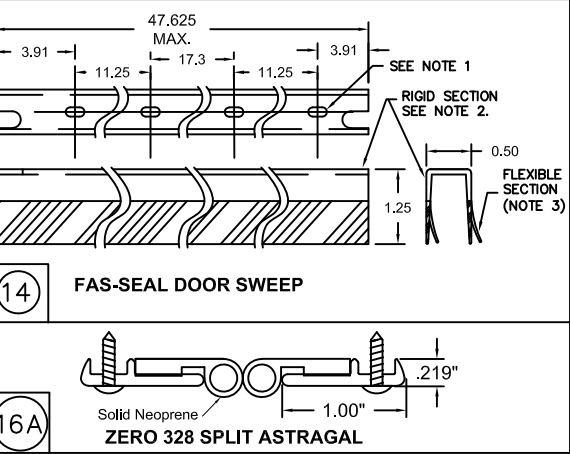
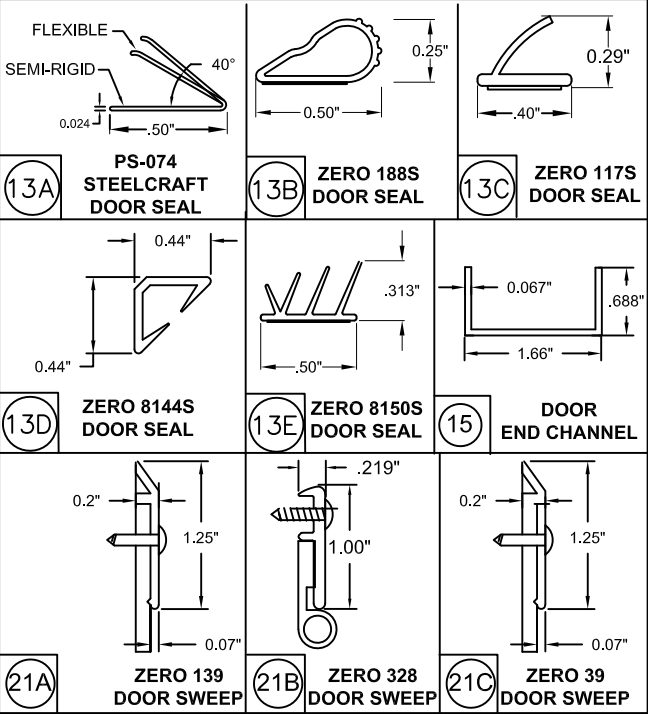
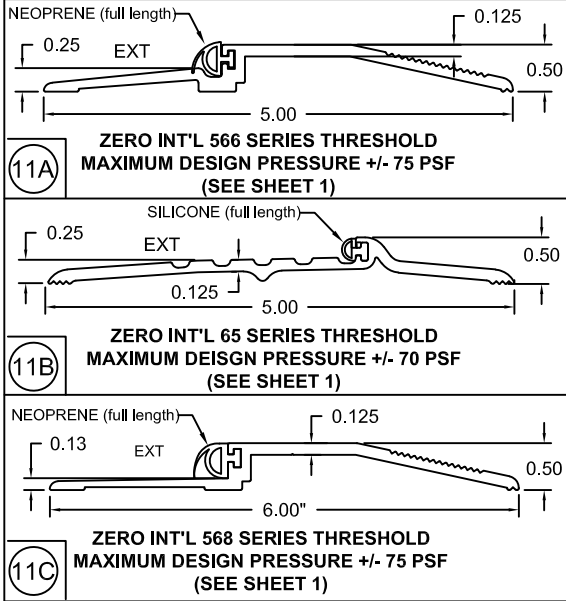
TABLE 4.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

ITEM NUMBER	MODEL No./ DESCRIPTION	MFG.
11	11A 566 THRESHOLD	ZERO INT'L
	11B 65 THRESHOLD	ZERO INT'L
	11C 568 THRESHOLD	ZERO INT'L
13	13A PS074 DOOR SEAL	STEELCRAFT
	13B 188S DOOR SEAL	ZERO INT'L
	13C 117S DOOR SEAL	ZERO INT'L
	13D 8144S DOOR SEAL	ZERO INT'L
	13E 8150S DOOR SEAL	ZERO INT'L
14	FAS-SEAL SWEEP	STEELCRAFT
15	END CHANNEL	STEELCRAFT
16A	328 SPLIT ASTRAGAL	ZERO INT'L
21A	139 DOOR SWEEP	ZERO INT'L
21B	328 DOOR SWEEP	ZERO INT'L
21C	39 DOOR SWEEP	ZERO INT'L

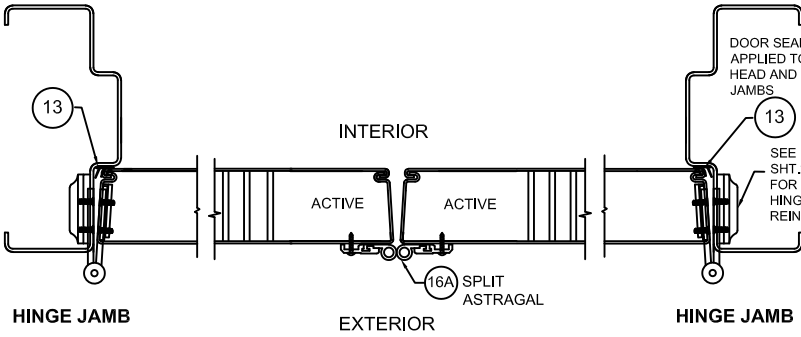
ZERO INT'L 566 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 75 PSF - EXCEPT CONFIGURATION 10 LIMITED TO 70 PSF
ZERO INT'L 65 THRESHOLD GASKETING SYSTEM EQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED. MAXIMUM DESIGN PRESSURE RATING 70 PSF.
MAXIMUM DOOR SIZE 4'-0" X 8'-0" (SEE SHEET 1).



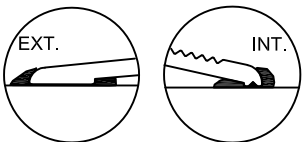
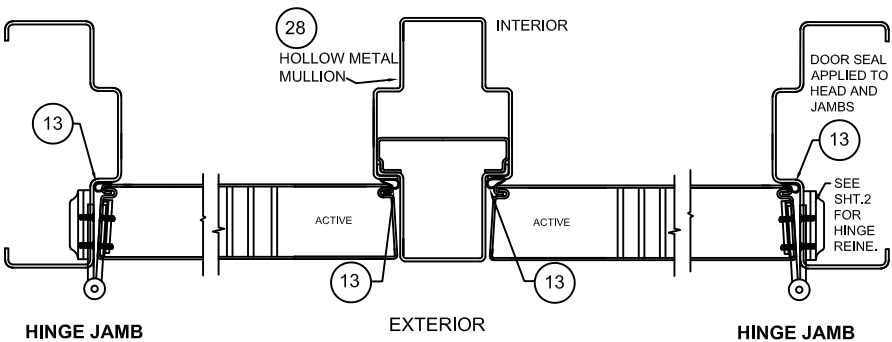
- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
 2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
 3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
 4. FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13A, 13B, 13C, 13D, 13E) AND THRESHOLD (11A, 11C, 11D) AS APPLICABLE, 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



FOR CONFIGURATIONS: 7 & 8 (SEE SHEET 1)

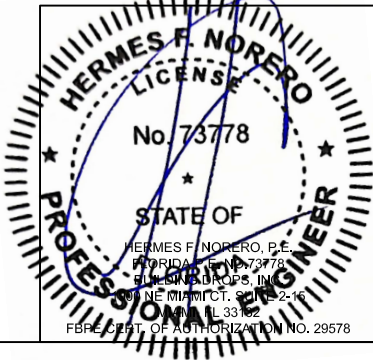
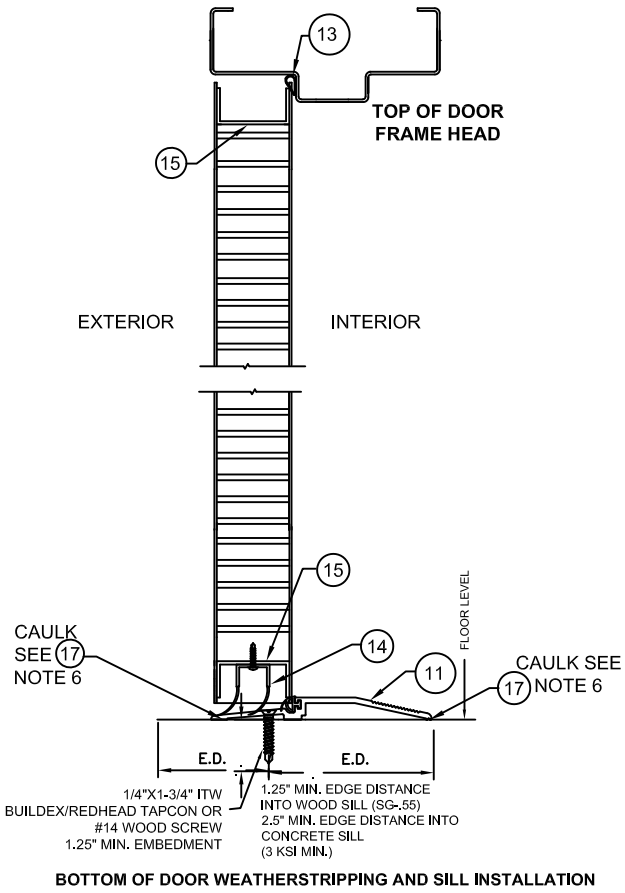


FOR CONFIGURATION: 10 (SEE SHEET 1)

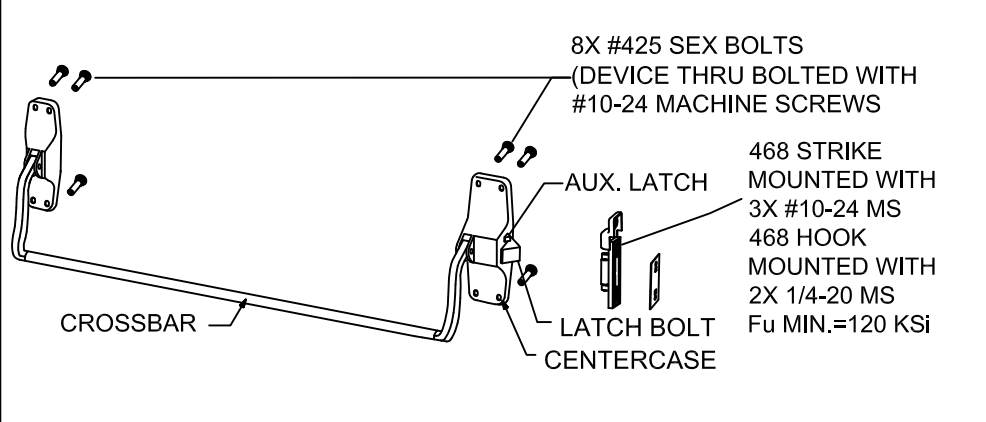


TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6

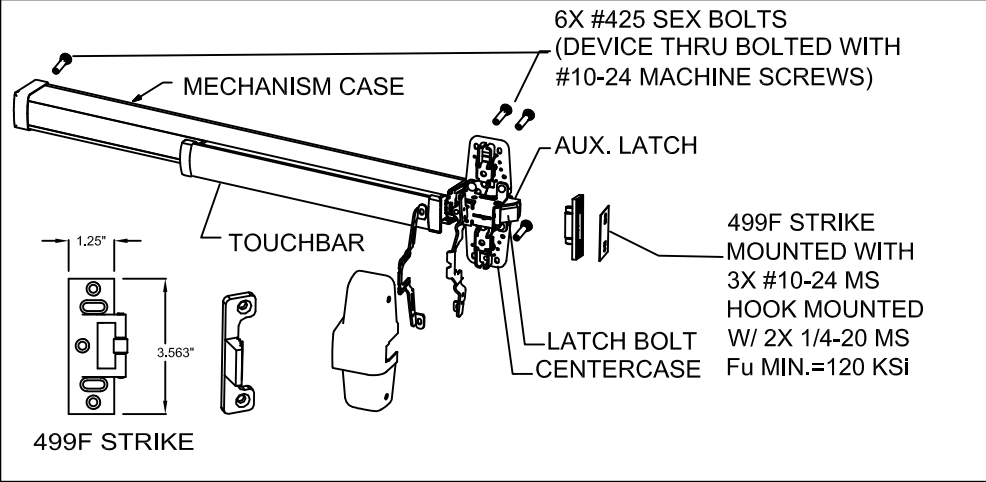
ALL CONFIGURATIONS



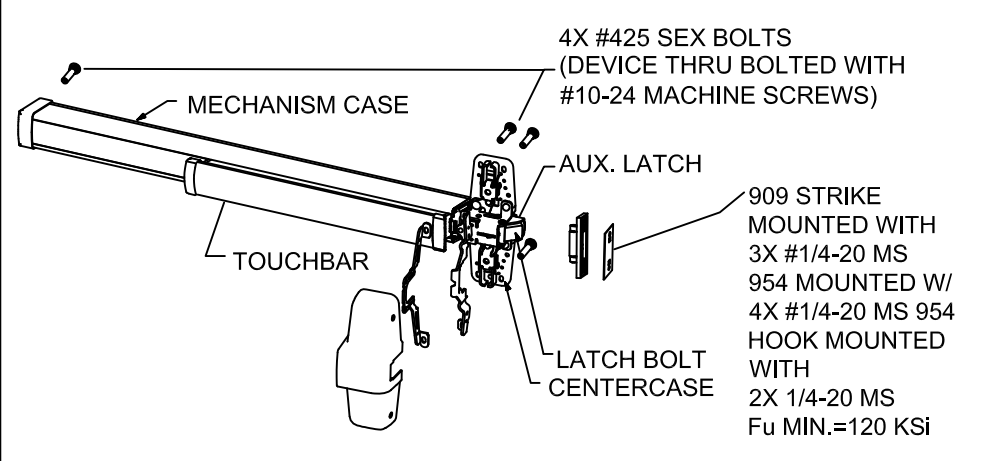
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: HARDWARE FORDOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS			
DRAWN YMF	DATE 05/20/07	DOUBLE FLUSH DOOR PERIMETER SEAL ZERO INT'L HARDWARE APPROVED WHERE WATER INFILTRATION IS <u>NOT</u> REQUIRED			
CHECKED		SIZE	FLAT	DWG NO. IRFD07C	REV U
APPROVED		SCALE:	NTS	AUTOCAD	FL14482.3
ENG. APPVL JPD	10/11/07			SHEET 5 of 10	



VON DUPRIN 88-F RIM EXIT DEVICE
USED IN CONFIGURATION: 6



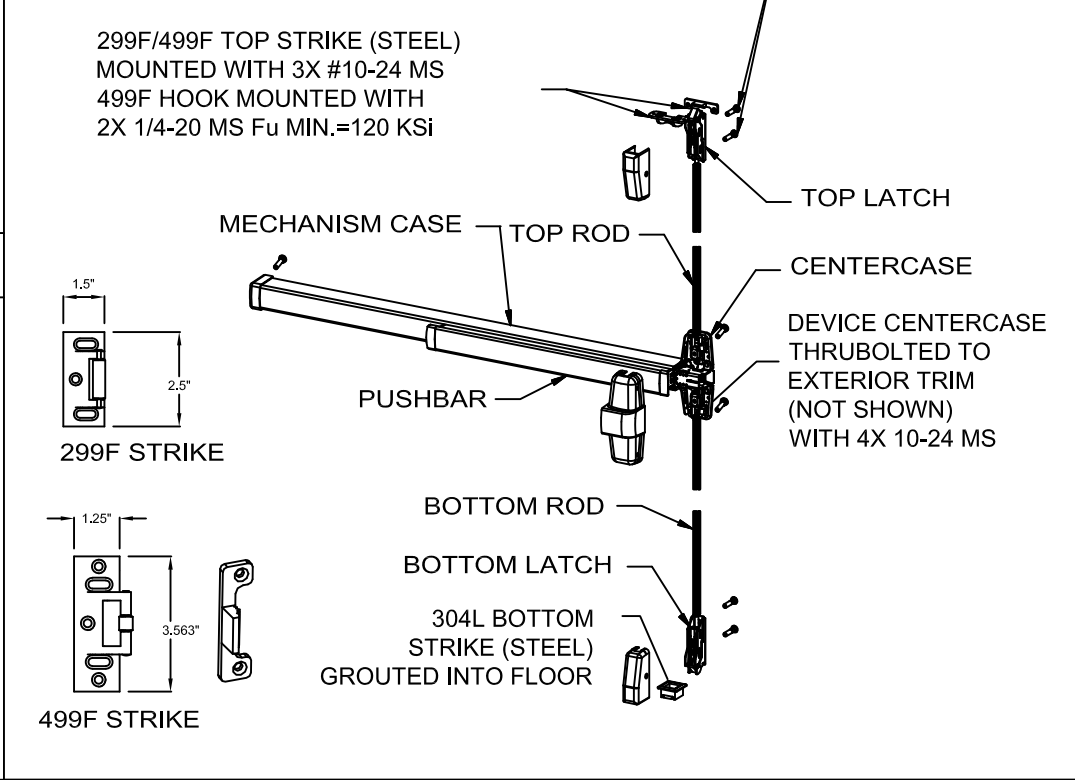
VON DUPRIN 98, 99, 98-F, 99-F, HH78, & HH78-F
RIM EXIT DEVICE
USED IN CONFIGURATION: 6



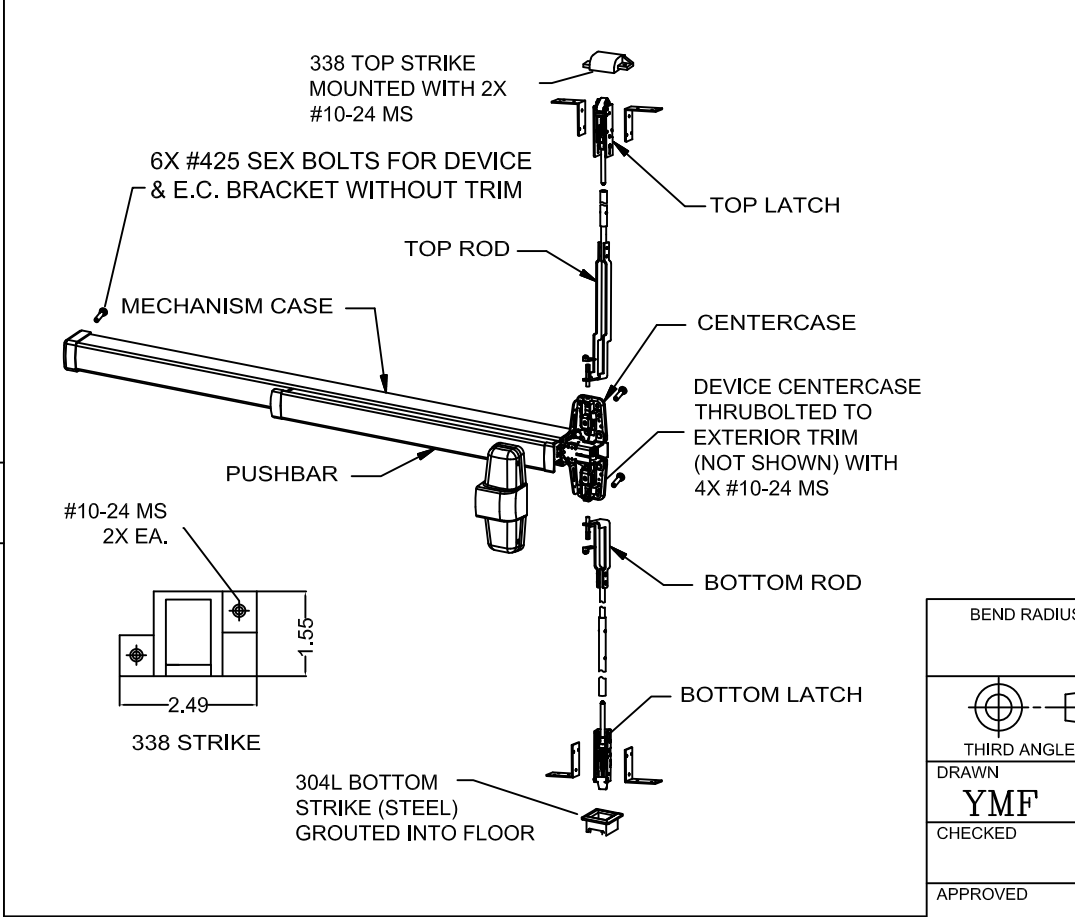
VON DUPRIN XP98, XP99, XP98-F, XP99-F
USED IN CONFIGURATION: 5

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

4X #325 SEXBOLTS (MOUNTED
ON OPPOSITE DOOR FACE) FASTEN
TOP AND BOTTOM LATCHES TO DOOR
(MOUNTED WITH 4X #1/4-20 MS)
6X #425 SEX BOLTS FOR DEVICE
AND E.C. BRACKET WITH OUT TRIM

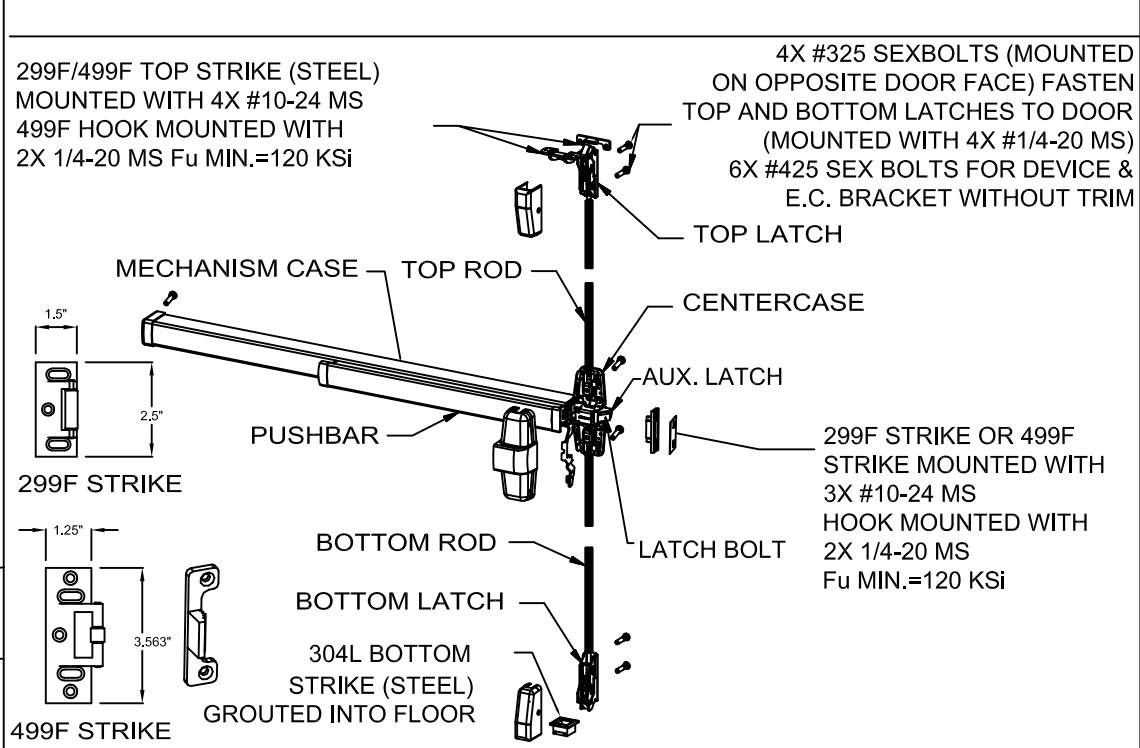


VON DUPRIN 98/9927, 98/9927-F, HH7827 & HH7827-F
SURFACE VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 7

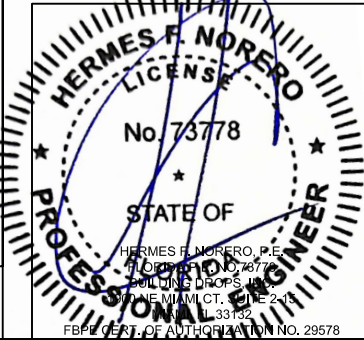
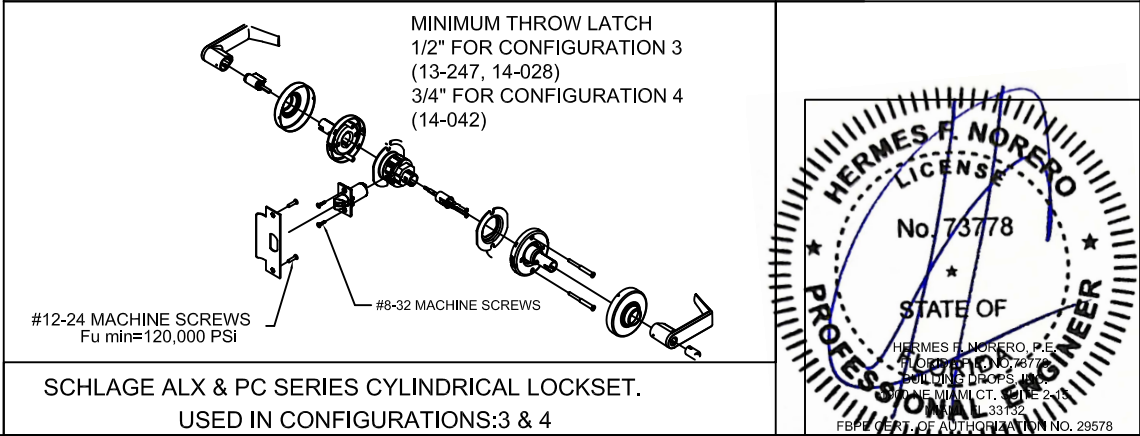


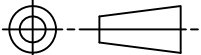
VON DUPRIN 98/9947-F, HH98/9947, HH7847 & HH7847-F WITH 2-3/4" BACKSET
CONCEALED VERTICAL ROD EXIT DEVICE
USED IN CONFIGURATION: 8

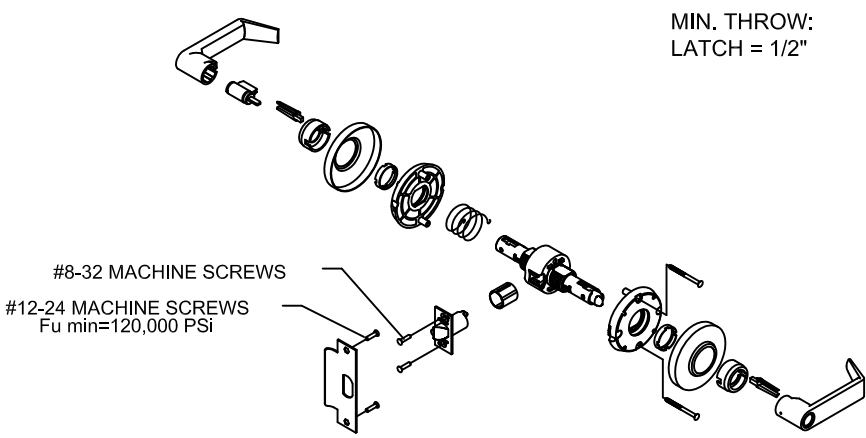
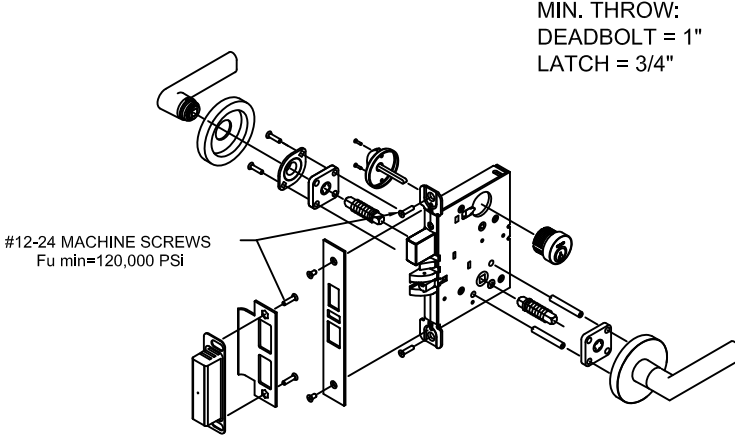
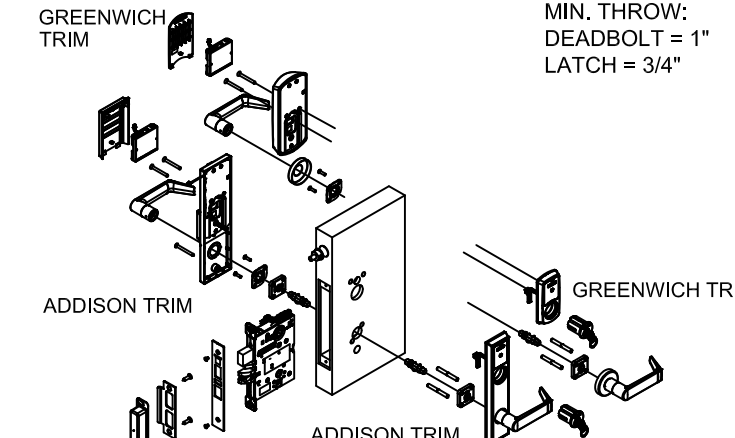
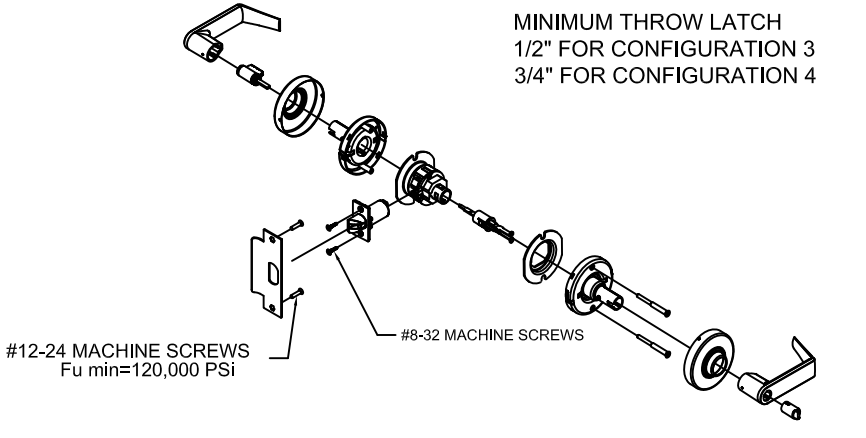
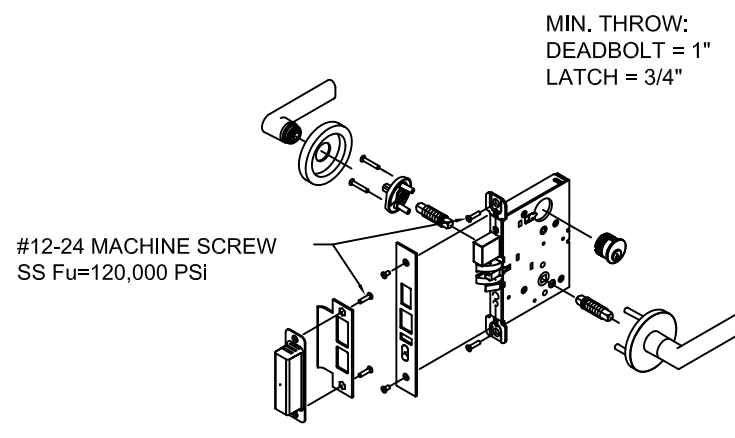
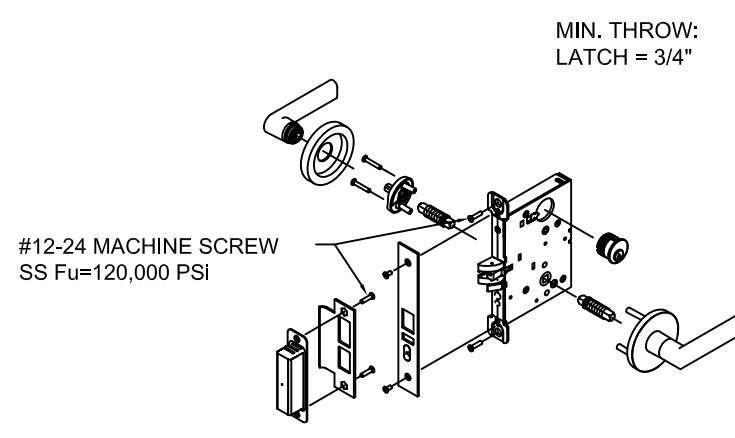
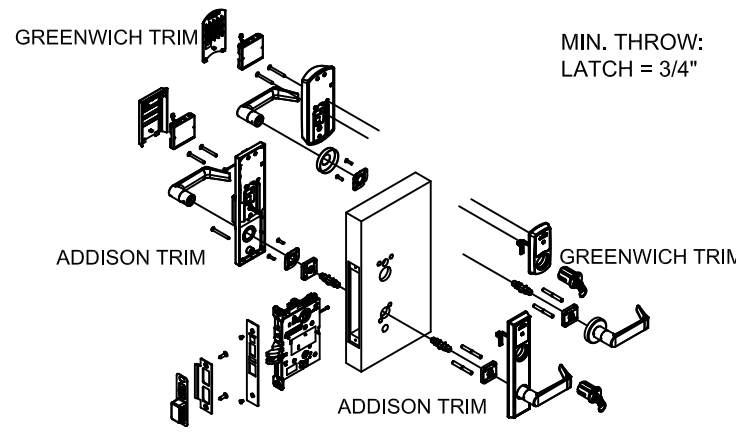
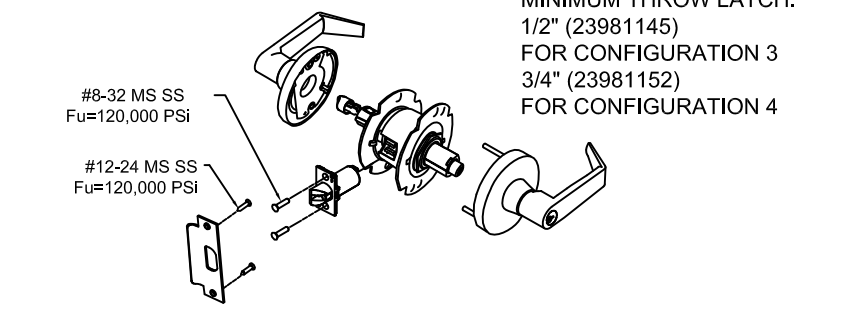
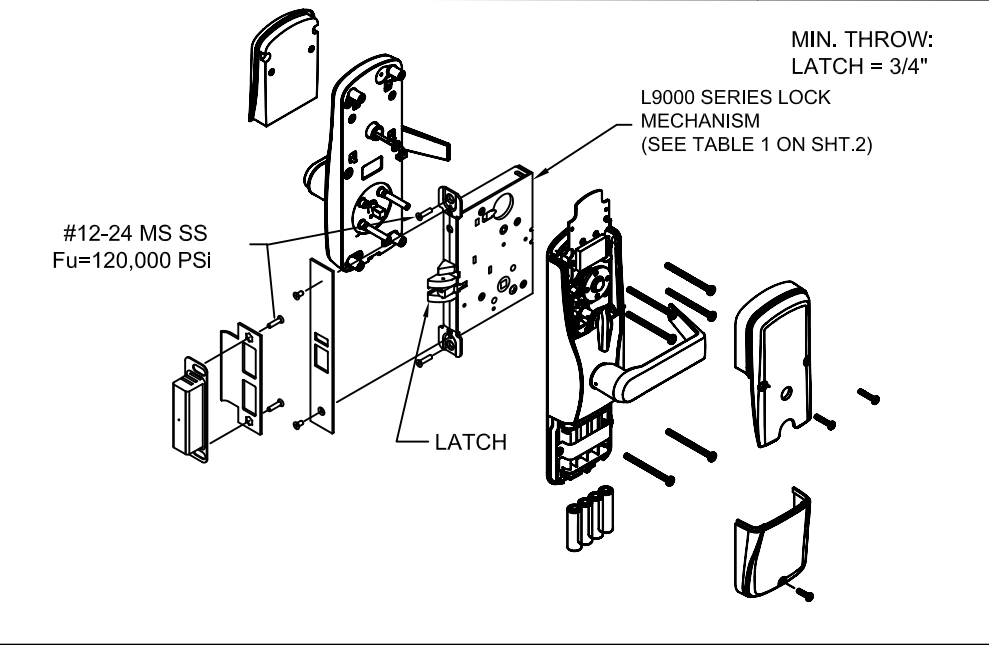
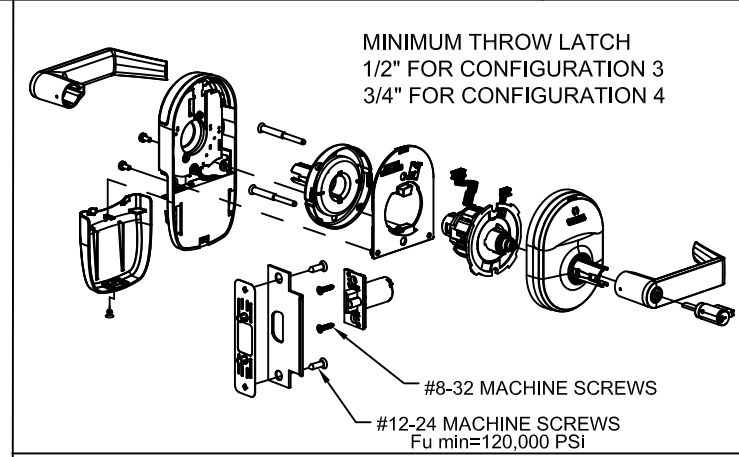
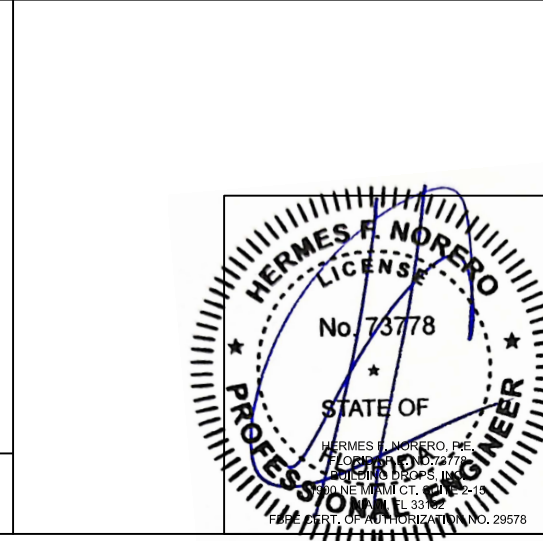
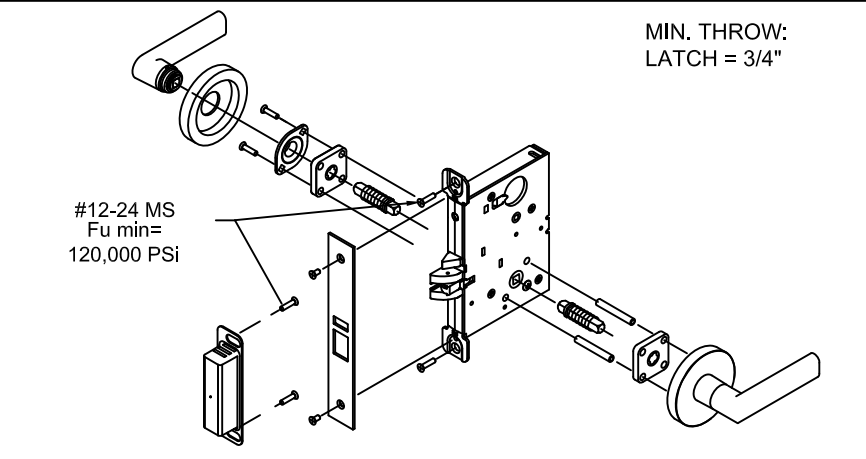
REVISIONS			
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O	REVISED DWG	JPD	07/18/18
P	LOCK UPDATE	YC	11/27/19
Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	CODE UPDATE	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25

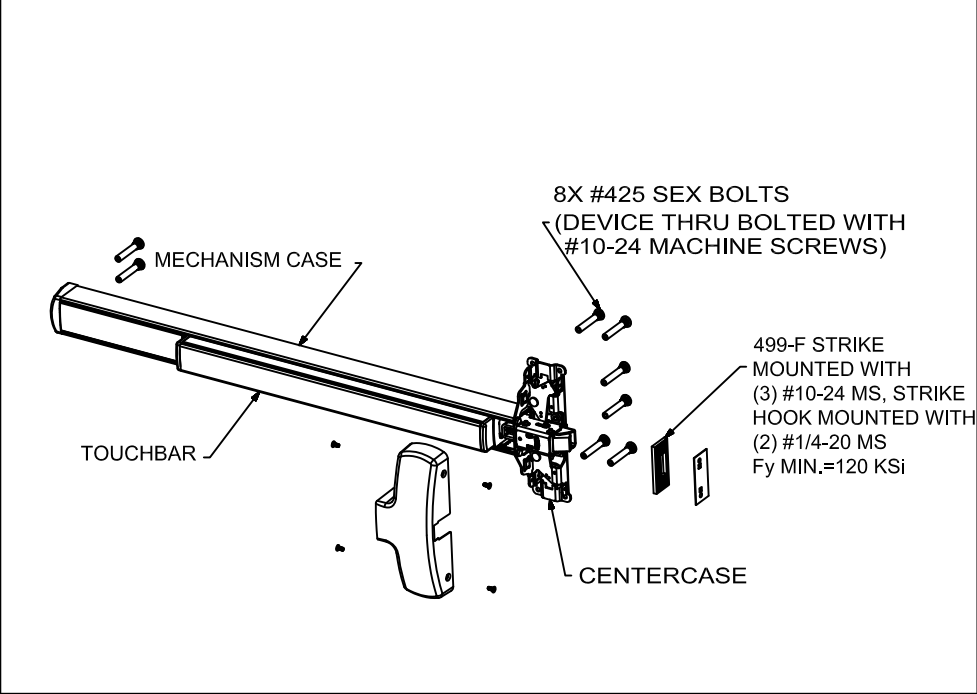


VON DUPRIN 98/9957 OR 98/9957-F THREE-POINT LATCHING DEVICE
USED IN CONFIGURATIONS: 9 & 10

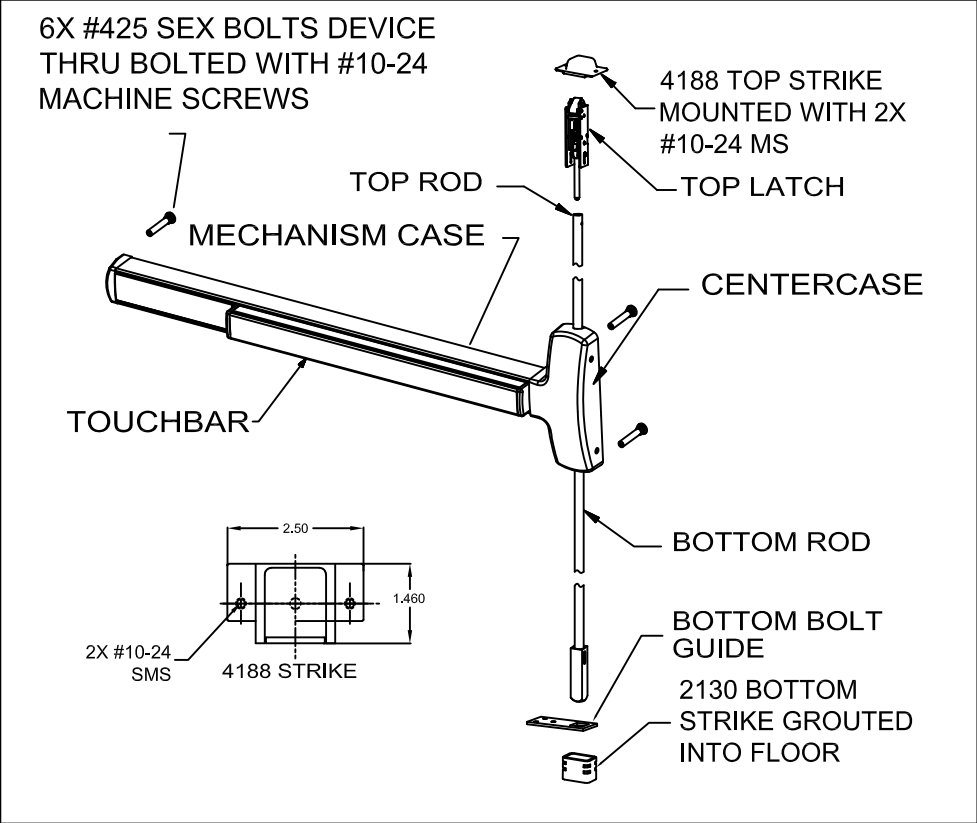


BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS					
DRAWN	DATE	EXIT HARDWARE FOR FLUSH DOUBLE DOORS.					
YMF	05/20/07						
CHECKED	CDATE						
APPROVED	ADATE	SIZE	FLAT	DWG NO.		REV	
				IRFD07C		U	
ENG. APPVL	EDATE	SCALE:		NTS	AUTOCAD	FL14482.3	SHEET 6 OF 10
JPD	10/12/07						

 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		<table><tr><th colspan="4">REVISIONS</th></tr><tr><th>LTR</th><th>DESCRIPTION</th><th>ENG</th><th>APPROVED</th></tr><tr><td>A</td><td>APPROVAL DWG</td><td>YMF</td><td>05/20/07</td></tr><tr><td>O</td><td>REVISED DWG</td><td>JPD</td><td>07/18/18</td></tr><tr><td>P</td><td>LOCK UPDATE</td><td>YC</td><td>11/27/19</td></tr><tr><td>Q</td><td>LOCK UPDATE</td><td>ER</td><td>10/02/20</td></tr><tr><td>R</td><td>LOCK UPDATE</td><td>CA</td><td>05/19/22</td></tr><tr><td>S</td><td>CODE UPDATE</td><td>DI</td><td>08/25/23</td></tr><tr><td>T</td><td>LOCK UPDATE</td><td>JA</td><td>10/14/24</td></tr><tr><td>U</td><td>MULLION UPDATE</td><td>DI</td><td>12/02/25</td></tr></table>				REVISIONS				LTR	DESCRIPTION	ENG	APPROVED	A	APPROVAL DWG	YMF	05/20/07	O	REVISED DWG	JPD	07/18/18	P	LOCK UPDATE	YC	11/27/19	Q	LOCK UPDATE	ER	10/02/20	R	LOCK UPDATE	CA	05/19/22	S	CODE UPDATE	DI	08/25/23	T	LOCK UPDATE	JA	10/14/24	U	MULLION UPDATE	DI	12/02/25										
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U	MULLION UPDATE	DI	12/02/25																																																								
SCHLAGE AL SERIES CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH USED IN CONFIGURATION: 2		SCHLAGE L/LV 9400 & PM400 SERIES MORTISE LOCKSET W/ DEADBOLT. USED IN CONFIGURATION:1		SCHLAGE LE-MD & LEB-MD SERIES MORTISE LOCKSET W/ DEADBOLT. USED IN CONFIGURATION:1																																																							
 MINIMUM THROW LATCH 1/2" FOR CONFIGURATION 3 3/4" FOR CONFIGURATION 4 #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" #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 CONFIGURATIONS: 3 & 4		FALCON MA-SERIES MORTISE LOCKSET W/ DEADBOLT USED IN CONFIGURATION: 1		FALCON MA-SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION: 1A		SCHLAGE LE-MS,LEB-MS,LE-MB,LEB-MB SERIES MORTISE LOCKSET W/O DEADBOLT USED IN CONFIGURATION:1A																																																					
 MINIMUM THROW LATCH: 1/2" (23981145) FOR CONFIGURATION 3 3/4" (23981152) FOR CONFIGURATION 4 #8-32 MS SS Fu=120,000 PSI #12-24 MS SS Fu=120,000 PSI		 MIN. THROW: LATCH = 3/4" L9000 SERIES LOCK MECHANISM (SEE TABLE 1 ON SHT.2) #12-24 MS SS Fu=120,000 PSI LATCH		 MINIMUM THROW LATCH 1/2" FOR CONFIGURATION 3 3/4" FOR CONFIGURATION 4 #8-32 MACHINE SCREWS #12-24 MACHINE SCREWS Fu min=120,000 PSI																																																							
FALCON, T, TM -SERIES CYLINDRICAL LEVER LOCKSET USED IN CONFIGURATIONS: 3 & 4				SCHLAGE NDE & NDEB SERIES CYLINDRICAL LOCKSET USED IN CONFIGURATIONS: 3 & 4																																																							
 MIN. THROW: LATCH = 3/4" #12-24 MS Fu min= 120,000 PSI		SCHLAGE AD-MS & CO-MS SERIES MORTISE LOCK WITHOUT DEADBOLT USED IN CONFIGURATION: 1A		<table><tr><td colspan="2">BEND RADIUS</td><td colspan="4" rowspan="2">SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032</td></tr><tr><td colspan="6">THIRD ANGLE PROJECTION</td></tr><tr><td>DRAWN</td><td>DATE</td><td colspan="4" rowspan="2">TITLE:HARDWARE FOR DOUBLE FLUSH COMMERCIAL STEEL DOORS</td></tr><tr><td>YMF</td><td>05/20/07</td></tr><tr><td>CHECKED</td><td></td><td colspan="4" rowspan="2">HARDWARE FOR FLUSH DOUBLE DOORS.</td></tr><tr><td>APPROVED</td><td></td></tr><tr><td>ENG. APPVL</td><td></td><td>SIZE</td><td>FLAT</td><td>DWG NO.</td><td>REV</td></tr><tr><td>JPD</td><td>10/12/07</td><td>SCALE:</td><td>NTS</td><td>AUTOCAD</td><td>U</td></tr><tr><td></td><td></td><td></td><td>FL14482.3</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>SHEET</td><td>7</td><td>OF 10</td></tr></table>				BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				THIRD ANGLE PROJECTION						DRAWN	DATE	TITLE:HARDWARE FOR DOUBLE FLUSH COMMERCIAL STEEL DOORS				YMF	05/20/07	CHECKED		HARDWARE FOR FLUSH DOUBLE DOORS.				APPROVED		ENG. APPVL		SIZE	FLAT	DWG NO.	REV	JPD	10/12/07	SCALE:	NTS	AUTOCAD	U				FL14482.3						SHEET	7	OF 10
BEND RADIUS		SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032																																																									
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ENG. APPVL		SIZE	FLAT	DWG NO.	REV																																																						
JPD	10/12/07	SCALE:	NTS	AUTOCAD	U																																																						
			FL14482.3																																																								
			SHEET	7	OF 10																																																						
SCHLAGE L/LV 9000 & PM SERIES MORTISE LOCK WITHOUT DEADBOLT USED IN CONFIGURATION: 1A		NOTES: 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. 2. ELECTRIFIED FUNCTIONS APPROVED , BUT NOT SHOWN ABOVE.																																																									



FALCON (F)25-R RIM EXIT DEVICE
USED IN **DOOR CONFIGURATION 11** (SEE SHT.1)

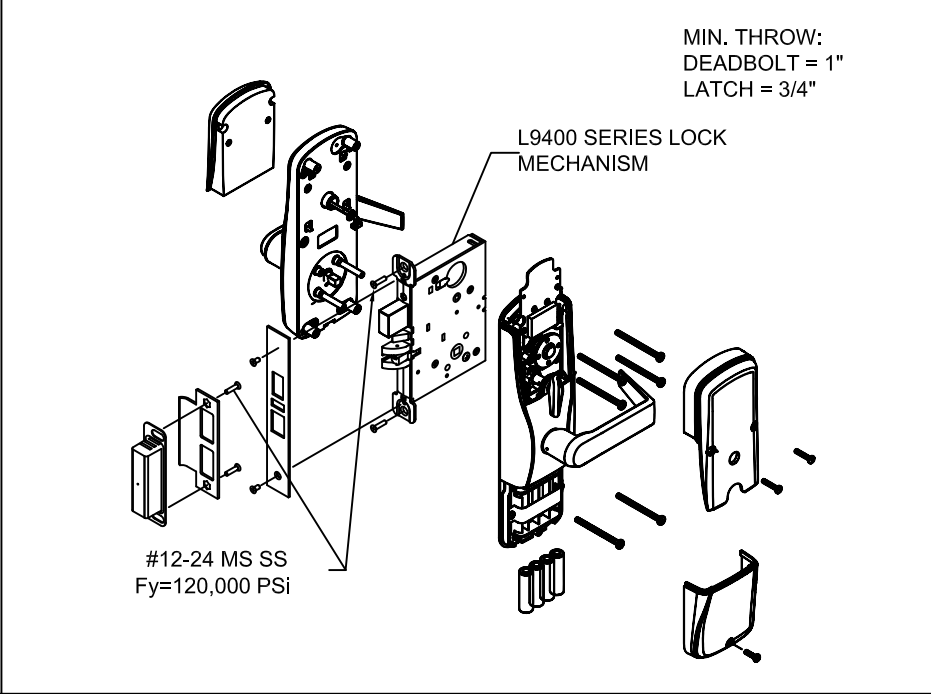


FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE
USED IN **DOOR CONFIGURATION 8** (SEE SHT.1)

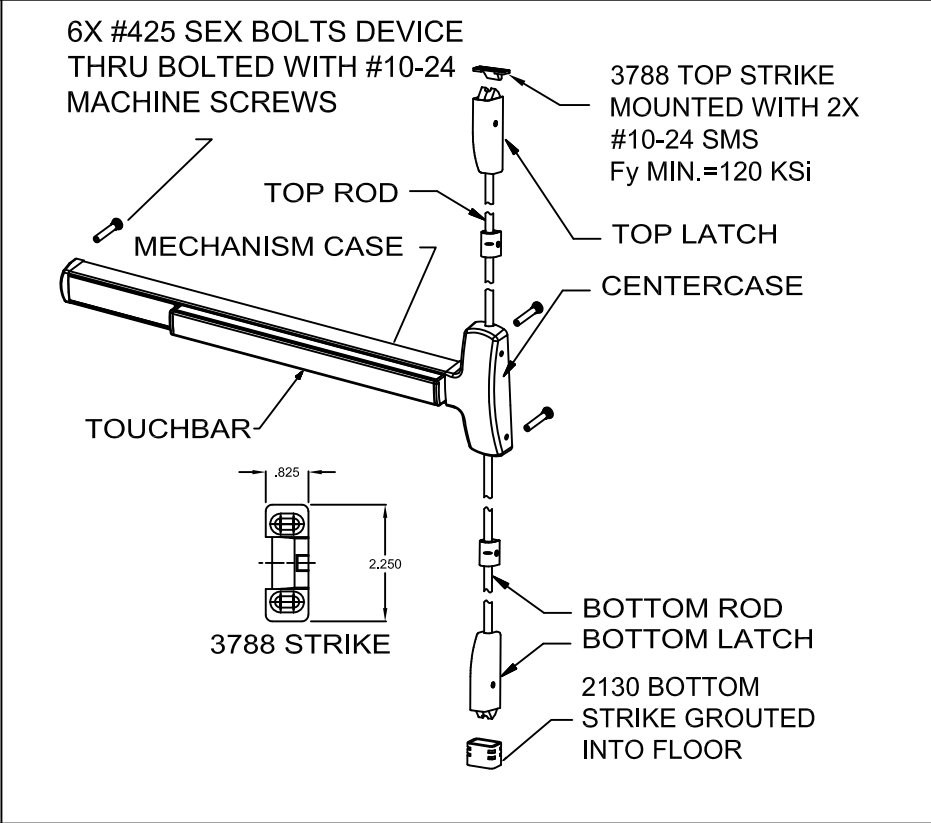
NOTES:
ELECTRIFIED AND FIRE RATED OPTIONS OF
APPROVED HARDWARE ARE ACCEPTABLE.
INSTALLATION AND APPLICATION IS UNDER
SEPARATE APPROVAL AND IS REVIEWED BY THE
CORRESPONDING AUTHORITY.

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

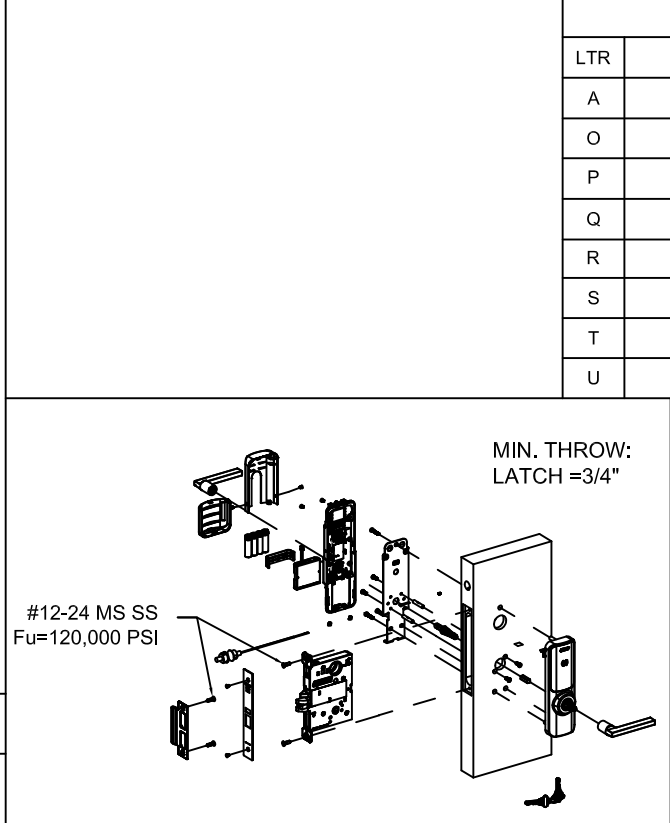
EXIT HARDWARE OPTIONS:
F-25-C & (F)25-V (F) 25-R SERIES - FUNCTIONS AE,
DM, LM, KOR, EA, FSA, FSE, CD, RX, LD, MEL
TRIMS: ALL APPLICABLE TRIMS AVAILABLE.



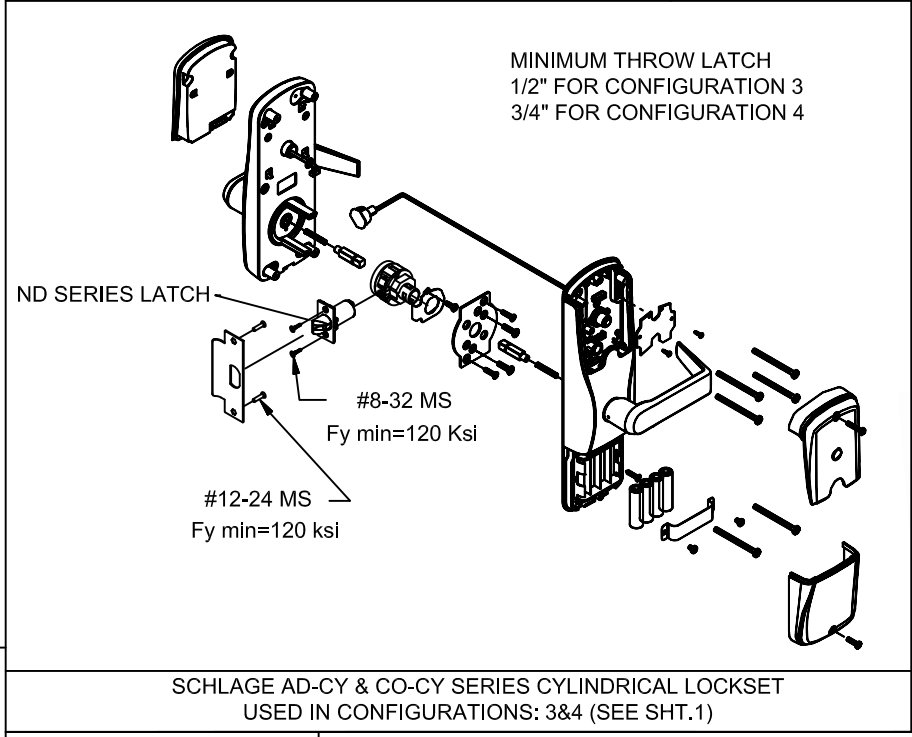
SCHLAGE AD-MD & CO-MD SERIES MORTISE LOCKSET WITH DEADBOLT
USED IN CONFIGURATIONS: 1 (SEE SHT.1)



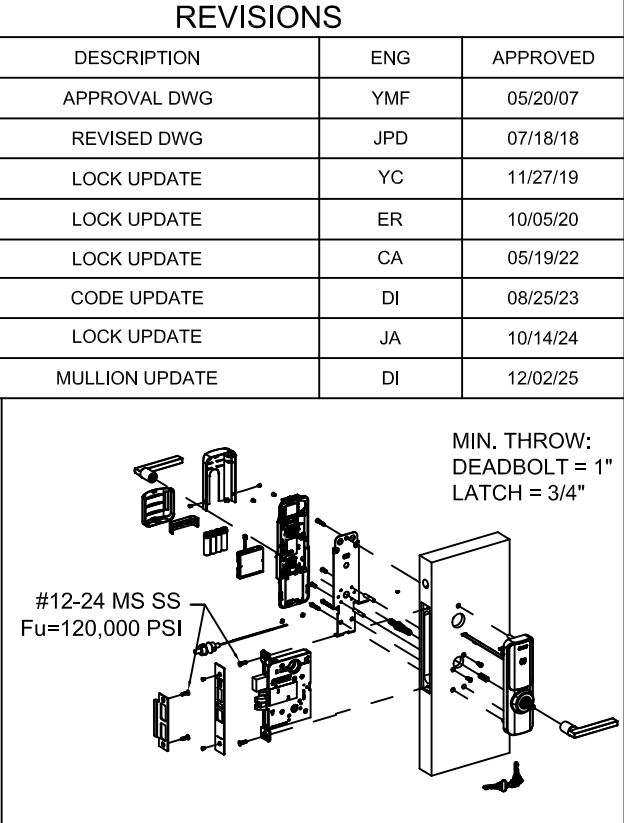
FALCON (F)25-V **SURFACE VERTICAL ROD EXIT DEVICE**
USED IN **DOOR CONFIGURATION 7** (SEE SHT.1)



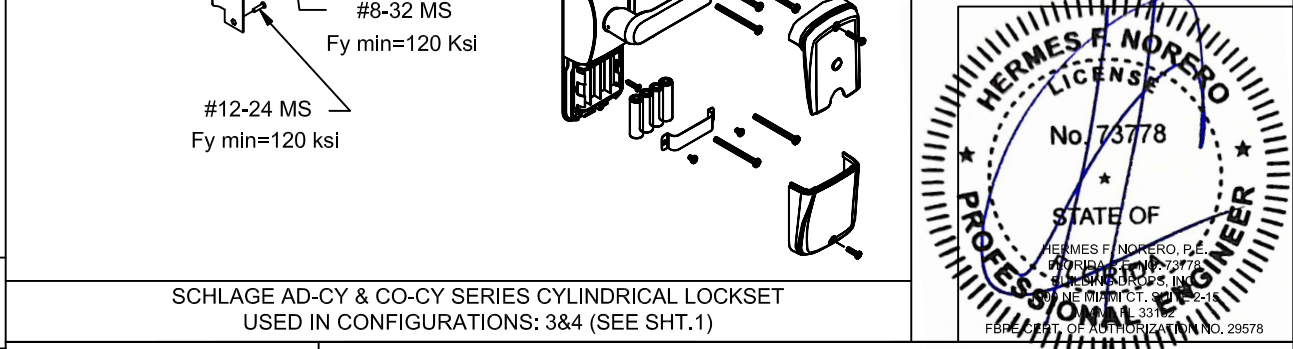
SCHLAGE XE360-M-B & XE360-M-I SERIES MORTISE
LOCKSET WITHOUT DEADBOLT
USED IN CONFIGURATION: 1A



SCHLAGE AD-CY & CO-CY SERIES CYLINDRICAL LOCKSET USED IN CONFIGURATIONS: 3&4 (SEE SHT.1)



SCHLAGE XE360-M-D SERIES MORTISE
LOCKSET W/ DEADBOLT
USED IN CONFIGURATION: 1



BEND RADIUS



DRAWN

THIRD ANGLE PROJECTION	
DRAWN	DATE

1111
CHECKED

TIME	DATE
CHECKED	DATE

APPROVED

APPROVED	ADATE
----------	-------

ENG. APPVL
JPD

ENG. APPVL JPD	EDATE 10/12/07
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SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS

HARDWARE FOR FLUSH DOUBLE DOORS.

SIZE	FLAT
------	------

SIZE	FLAT
------	------

SIZE	FLAT	DWG NO.
------	------	---------

		IRFD07C
--	--	---------

SIZE	FLAT	DWG NO.	REV
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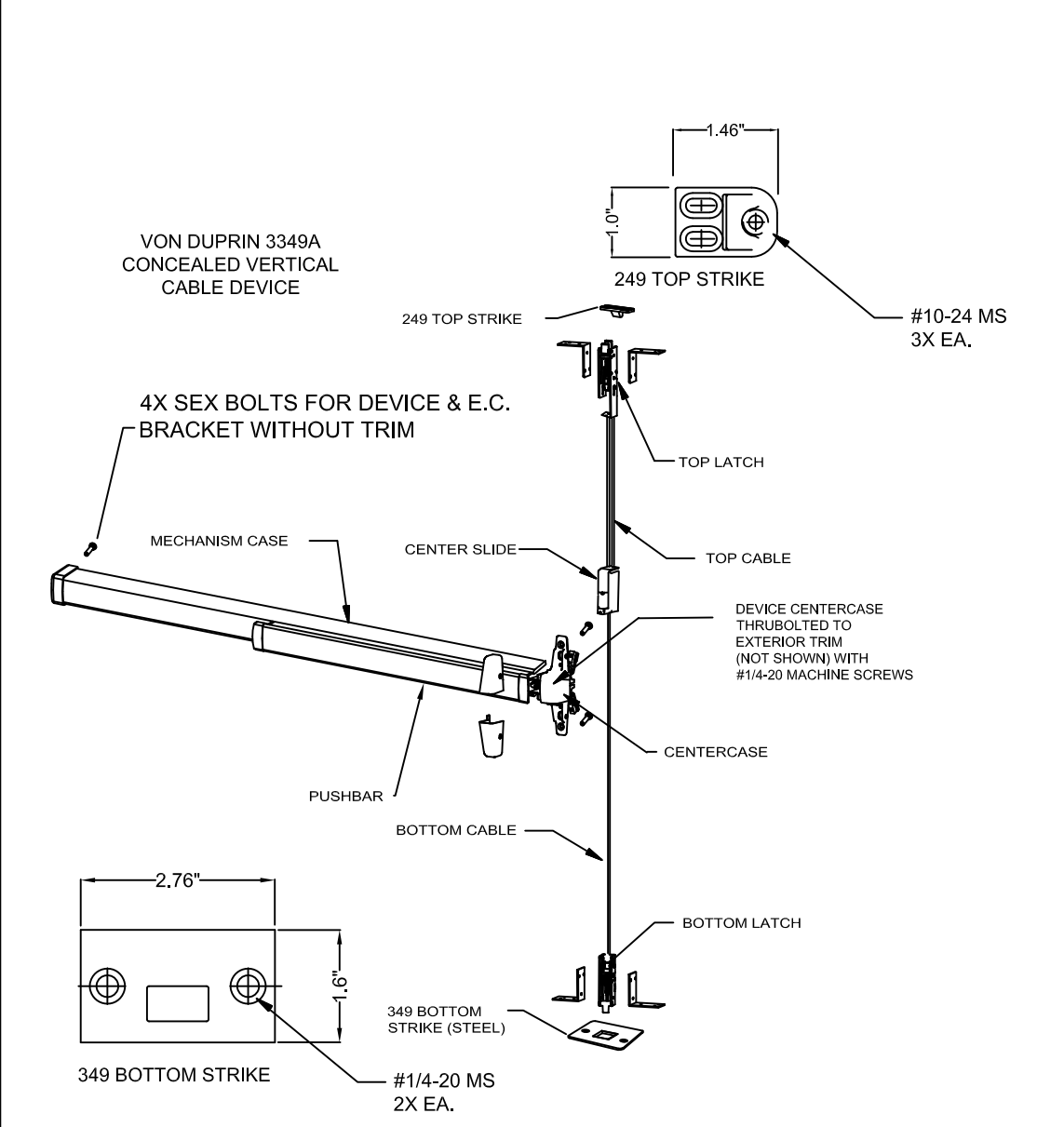
		IRFD07C	U
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SCALE: NTS

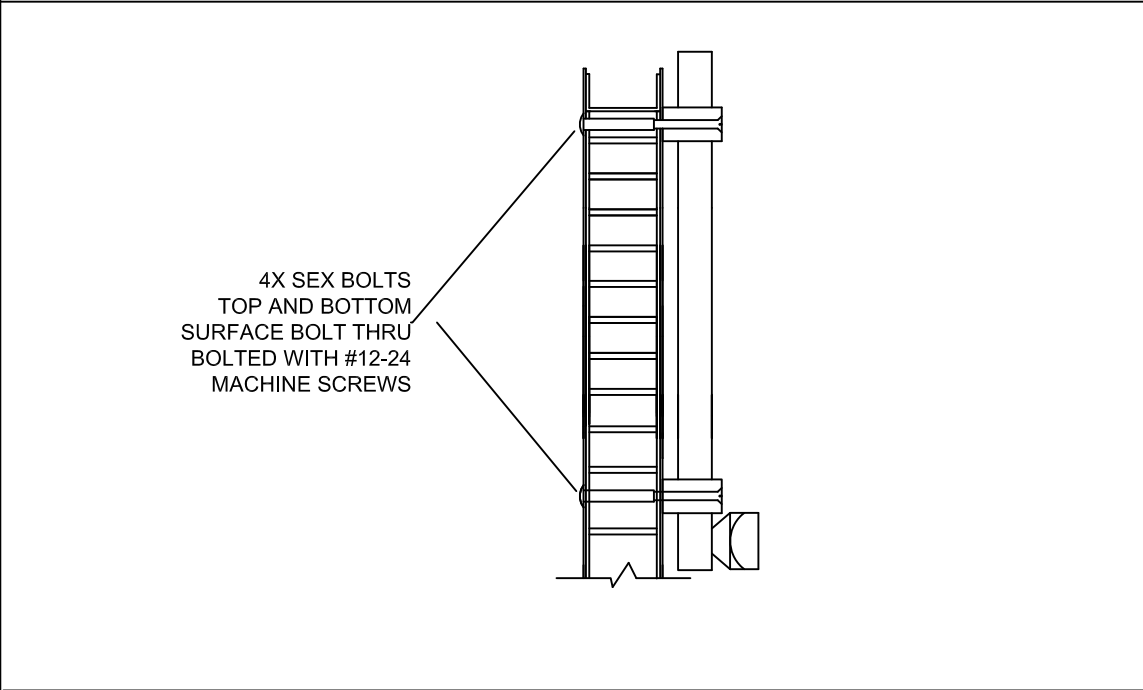
SCALE:	NTS	AUTOCAD
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SCALE:	NTS	AUTOCAD	FL14482.3
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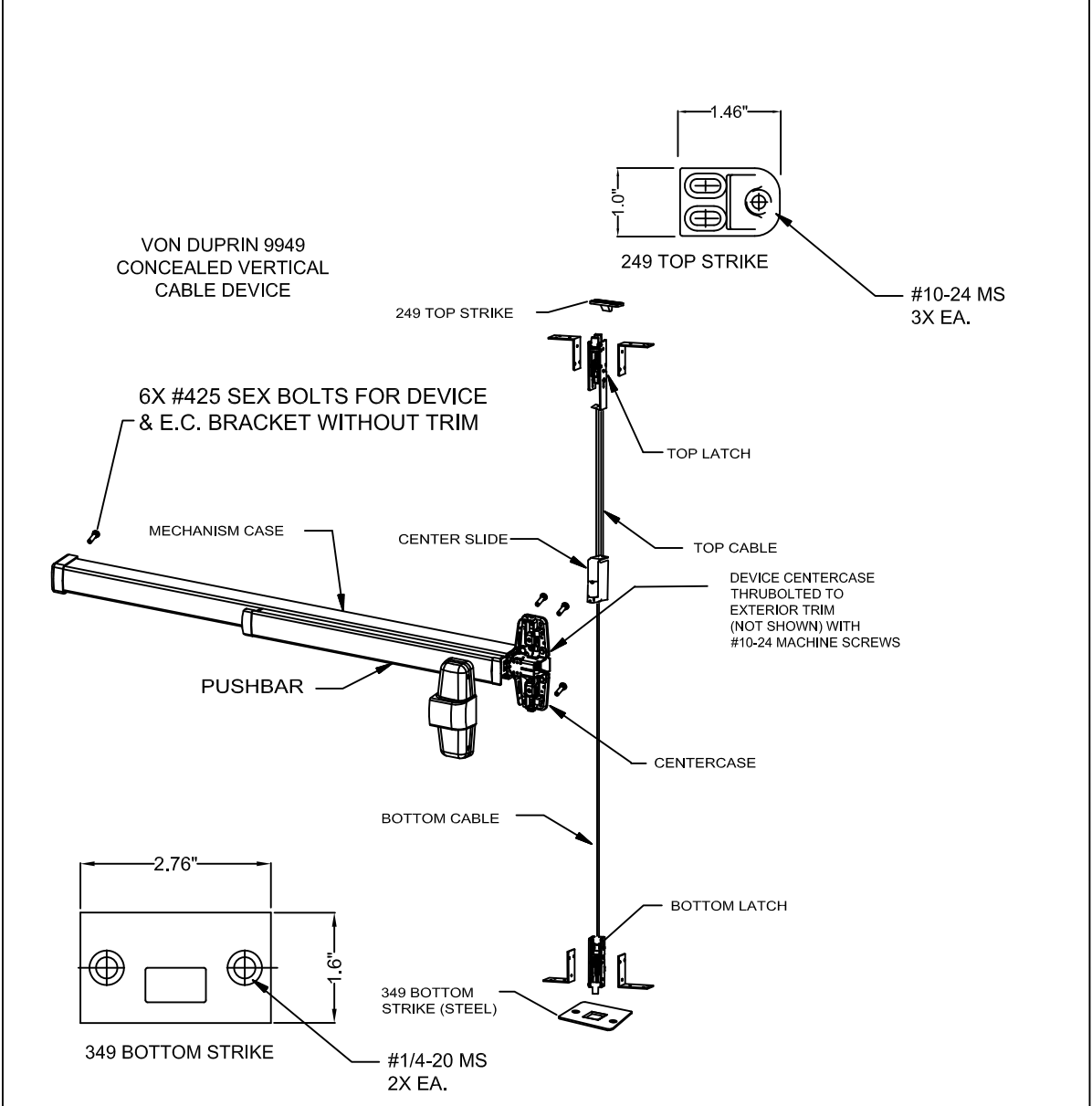
SCALE:	NTS	AUTOCAD	FL14482.3	SHEET	8	OF	10
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VON DUPRIN CONCEALED VERTICAL CABLE EXIT DEVICE 3349A, 3549A, 3349A-F, 3549A-F
USED IN DOOR CONFIGURATION: 8A



IVES SURFACE BOLT SB360
USED ON INACTIVE DOOR FOR CONFIGURATIONS: 1, 1A, 2, 3, 4



VON DUPRIN CONCEALED VERTICAL CABLE EXIT DEVICE 9849, 9949, 9849-F, 9949-F
USED IN DOOR CONFIGURATION: 8A

NOTES:

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.

2. EXIT HARDWARE OPTIONS:
FOR 98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN (OPTIONS MAY VARY PER SERIES)
TRIMS: 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.

BEND RADIUS	
THIRD ANGLE PROJECTION	
DRAWN JPD	DATE 10/25/12
CHECKED	CDATE
APPROVED	ADATE
ENG. APPVL X	EDATE 10/25/12

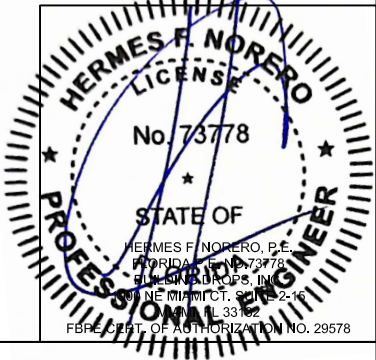
SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032

TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS

HARDWARE OPTIONS FOR FLUSH DOUBLE DOORS

SIZE	FLAT	DWG NO.	REV
		IRFD07C	U
SCALE:	NTS	AUTOCAD	FL14482.3
		SHEET	9 OF 10

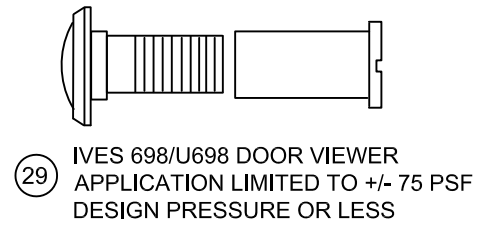
REVISIONS			
LTR	DESCRIPTION	ENG	APPROVED
A	APPROVAL DWG	YMF	05/20/07
O	REVISED DWG	JPD	07/18/18
P	LOCK UPDATE	YC	11/27/19
Q	LOCK UPDATE	ER	10/05/20
R	LOCK UPDATE	CA	05/19/22
S	CODE UPDATE	DI	08/25/23
T	LOCK UPDATE	JA	10/14/24
U	MULLION UPDATE	DI	12/02/25



#12-24 MACHINE SCREWS

4.5" MIN.

9



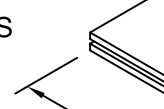
Technical drawing of a continuous hinge assembly. The drawing shows two views of the hinge leaf and frame leaf. The top view shows the hinge leaf with a dimension of 96" MAX. and a note: ".110" MIN. THICKNESS". The bottom view shows the frame leaf with a dimension of 96" MAX. and a note: "QTY: 4 x 5/16-18 MACHINE SCREWS MIN. Fy = 120 KSI". A callout for the top view indicates: "(15 MIN.) 12-24x3/4\" FLAT HEAD UNDERCUT SELF DRILLING SCREW DOOR AND FRAME LEAF QUANTITY VARIES PER HINGE LENGTH". A callout for the bottom view indicates: "(18 MIN.) #10-24X 1/2\" MIN. MACHINE SCREW OR SELF DRILLING EACH HINGE LEAF QUANTITY VARIES PER HINGE LENGTH". A table in the top right corner lists hardware specifications for different hinge types.

P	LOCK UPDATE	YC
Q	LOCK UPDATE	ER
R	LOCK UPDATE	CA
S	CODE UPDATE	DI
T	LOCK UPDATE	JA
U	MULLION UPDATE	DI

QTY: 4 x 5/16-18
MACHINE SCREWS
MIN. Fy = 120 KSI
DETAIL 'C-2'

STEEL CONTINUOUS HINGE
IVES 600
.075 (14GA.) MIN. THICKNESS
1012 COLD ROLLED STEEL
Fy MIN. 45ksi

STAINLESS STEEL CONTINUOUS HINGE
IVES 700, 700CS
.075 (14GA.) MIN. THICKNESS
304 STAINLESS STEEL
Fy MIN. 31ksi



②A HH9954 MULLION

4X 5/16-18
MACHINE SCREWS
Fy=120ksi min.

DETAIL 'C-1'

2X 1/4-20
MACHINE SCREWS
TO MOUNT COVER

Diagram of a rectangular cover with dimensions 2.000 and 3.000. The cover is shown with a double-line border. A dimension line indicates a width of 2.000 and a height of 3.000. A label 'COVER' points to the top edge of the rectangle.

MULLION BODY
.312 THK WALL
A 500 GRDE STEEL

MULLION FITTING 8620 STEEL
BASE & HEAD
EDGE DISTANCE & O.C. SPACING
SHOWN FOR BASE FITTING
INSTALLATION

MULLION BASE FITTING-

- QTY; 4 ANCHORS, SEE BELOW FOR ALLOWABLE OPTIONS AND REQUIREMENTS

DETAIL 'C-2'

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) WITH 1-1/2" EMBEDMENT WITH MIN 3.25" MIN 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

(2B) 9964 OR KR9964 MULLION

QTY: 4 x 5/16-18
MACHINE SCREWS
MIN. $F_y = 120$ KSI
DETAIL 'C-2'

DETAIL 'C-2'

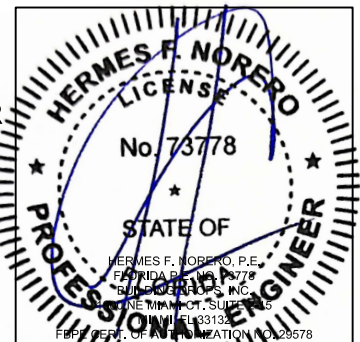
EXT

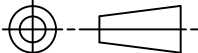
499F, 468, 909 OR 954 STRIKE
MOUNTED WITH
3 X #10-24 STEEL
MACHINE SCREWS
HOOK MOUNTED WITH
2 x #1/4-20 STEEL
MACHINE SCREWS
MIN. $F_y=120$ KSI

-QTY; 4 ANCHORS,
SEE BELOW FOR
ALLOWABLE
OPTIONS AND
REQUIREMENTS

DETAIL 'C-2'

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



BEND RADIUS						ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IL 46032			
THIRD ANGLE PROJECTION						TITLE: HARDWARE FOR DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS			
DRAWN JPD		DATE 02/03/14		HINGE AND VIEWER OPTIONS					
CHECKED				HARDWARE AND HOLLOW METAL MULLION INSTALLATION INFORMATION					
APPROVED				SIZE	FLAT	DWG NO. IRFD07C			REV U
ENG. APPVL				SCALE:		NTS	AUTOCAD	FL14482.3	SHT 10 OF 10