

ALLEGION - SCHLAGE LOCK COMPANY, LLC.

SINGLE FLUSH INSWING 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 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 6 - 10 & 18 - 22 FOR APPROVED ANCHORS AND INSTALLATION.

3.

HINGE REQUIREMENTS: 4.5" STD WT. MIN. (MIN. 3 HINGES) BUTTS OR CONTINUOUS HINGE
FOR DOOR OPENING UP TO 7'0" HIGH - MIN (3) HINGES
LOCATIONS: 7.125" MIN - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE
9" MIN. -12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
NOT TO EXCEED 35.5" FOR THREE HINGES

4.

APPROVED CONTINUOUS HINGE MODELS: SEE SHEET 12

5.

SEE SHEET 2, 4, 5 & 15 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 NOT REQUIRED, INSTALL GASKETING PER SHEET 11.

10.

MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED
IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.

11.

WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE
DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN

12.

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.

13.

OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTAL MAGNETIC LOCKS MAY BE USED
AS ALLOWED BY CODE AND DOES NOT EFFECT THE MECHANICAL PROPERTIES OF HARDWARE AND OR
INHIBIT EGRESS. TO BE REVIEWED BY THE BUILDING OFFICIAL.

CONSTRUCTION NOTES:

1.

DOOR CONSTRUCTION
1.1. NOMINAL DOOR THICKNESS - 1 3/4"
1.2. DOORS AVAILABLE IN FLAT AND EMBOSSED SURFACE MODELS
1.3. ALL DOORS ARE FLUSH - NO LITES OR LOUVERS APPROVED
1.4. DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN RATING OF
+/-70 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER
INSTALLATION. MAXIMUM 2 VIEWERS PER DOOR.
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 6, SHT. 5). REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS ME-SERIES AND
SE-SERIES (SEE TABLE 11 SHT. 17).
3.

FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 3, SHT. 4.
FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 10
SHT. 17.
4.

FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM.
GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 5 & 17 FOR
DETAIL.

DESIGN PRESSURE RATING			IMPACT RATING
CONFIGURATION	WHERE WATER 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	NOT APPROVED	+70/-70	
2		+70/-70	
3		+60/-70	
4		+55/-55	

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TITLE:

SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

GENERAL NOTES &
DESIGN PRESSURE TABLE

PREPARED BY:

BUILDING DROPS, INC.

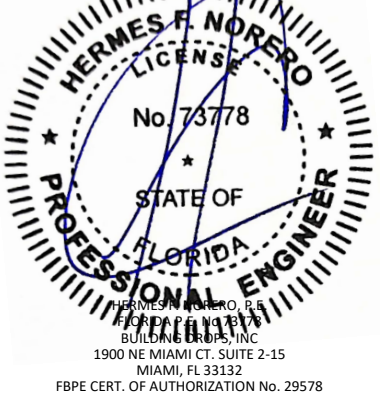
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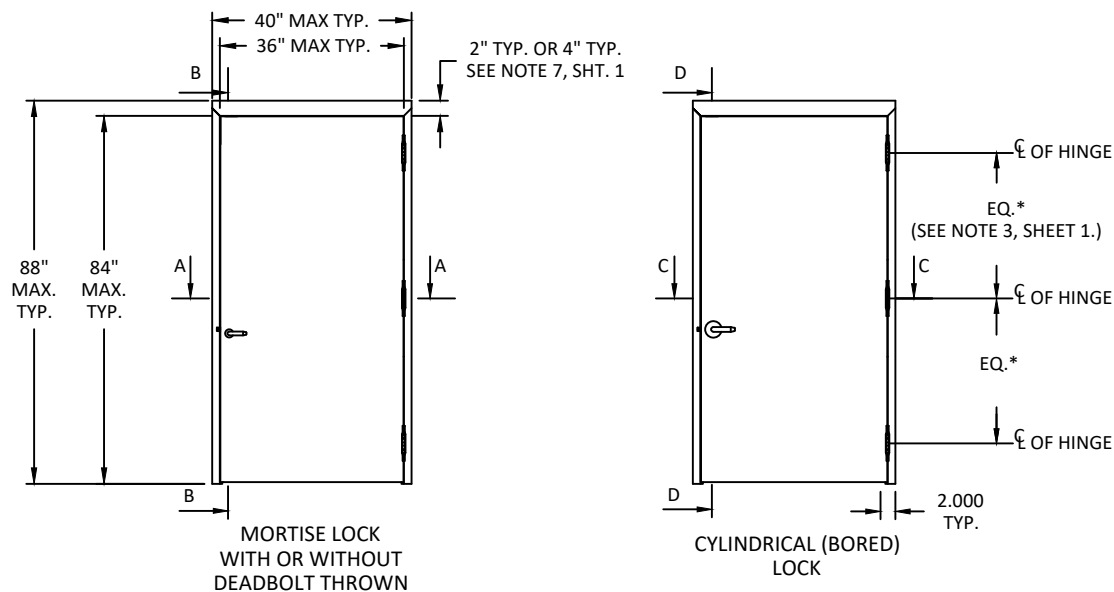
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AVAILABLE DOOR PANEL CONFIGURATIONS

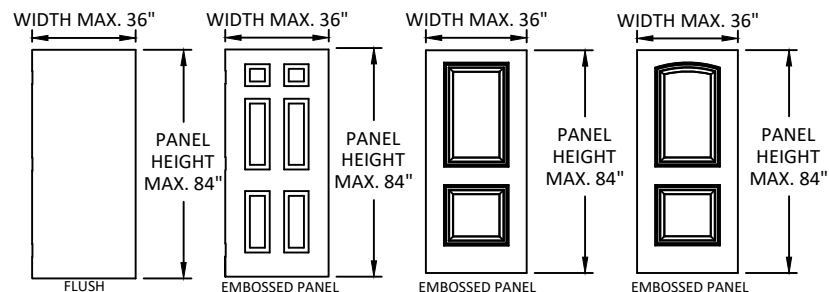


TABLE 2: DOOR CONFIGURATIONS & LOCKING HARDWARE

DOOR CONFIGURATION	MAXIMUM DESIGN PRESSURE, PSF		MAXIMUM DOOR OPENING SIZE, IN		LOCKING HARDWARE DESCRIPTION				COMMENTS
	POSITIVE	NEGATIVE	WIDTH	HEIGHT	HARDWARE FAMILY	MODEL/SERIES	STRIKE MODELS	BRAND	
1	70	70	36	84	MORTISE LOCK	L/LV9400, AD-MD, CO-MD, PM400	10-072	SCHLAGE	FUNCTIONS WITH DEADBOLT, 3/4" MIN. THROW LATCH & 1" MIN. THROW DEADBOLT
	70	70	36	84	MORTISE LOCK	LE-MD, LEB-MD	10-072	SCHLAGE	
	70	70	36	84	MORTISE LOCK	XE360-M-D	10-072	SCHLAGE	
	70	70	36	84	MORTISE LOCK	MA	ANSI	FALCON	
2	70	70	36	84	MORTISE LOCK	L/LV9000, AD-MS, CO-MS, PM	10-072	SCHLAGE	FUNCTIONS WITHOUT DEADBOLT, 3/4" MIN. THROW
	70	70	36	84	MORTISE LOCK	LE-MS, LEB-MS, LE-MB, LEB-MB	10-072	SCHLAGE	
	70	70	36	84	MORTISE LOCK	XE360-M-B, XE360-M-I	10-072	FALCON	
	70	70	36	84	MORTISE LOCK	MA	ANSI	FALCON	
3	60	70	36	84	CYLINDRICAL LOCK	A, AL, D, ND, NDE, NDEB, AD-CY, CO-CY	10-025	SCHLAGE	1/2" MIN. THROW LATCH
	60	70	36	84	CYLINDRICAL LOCK	ALX, PC	10-072	SCHLAGE	1/2" MIN. THROW LATCH (13-247, 14-028)
	60	70	36	84	CYLINDRICAL LOCK	T, TM	ANSI	FALCON	1/2" MIN. THROW LATCH (23981145)
	60	70	36	84	CYLINDRICAL LOCK	B	ANSI	FALCON	1/2" MIN. THROW LATCH
4	55	55	36	84	TUBULAR LOCK	XE360-T	10-072	SCHLAGE	1/2" MIN. THROW LATCH

TABLE 1: (FOR OPTION 2 SEE TABLE 7 SHEET 15)

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 5	.053" MIN. STL	MAX. 52"
2	1	STRIKE JAMB. SEE SHT 5	.053" MIN. STL	MAX. 100"
3	1	HINGE JAMB SEE SHT 5	.053" MIN. STL	MAX. 100"
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX.
5				
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.5" X 9.187" MIN.
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE	0.075" MIN.STL / .110 ALUM.	MAX. 84"
9	1	CORE MATERIAL:	SEE SHEET 4	
		D) HONEYCOMB C) STEEL STIFFENED		
		A&F) POLYSTYRENE B&F) POLYURETHANE		
		E) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE - LOCKSET	SEE SHEET 13 & 14	
11	1	THRESHOLD SILL W/BUMPER GASKET SEE SHT. 11	.125" ALUM. 6063 T5	5.5" X 0.5" X 36" MAX
		11A) 566 ZERO		
		11B) 950 NGP	.078" ALUM. 6063 T5	
		11C) 65 ZERO	0.125" ALUM. 6063 T5	6.0" X 0.5" X 48" MAX.
		11D) 568 ZERO	0.125" ALUM. 6063 T5	
12	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 6-9	-
13	SEE SHT. 11	13A) PS074 DOOR SEAL STEELCRAFT	TPE	MAX. 20'
		13B) 188S, 13C) 117S, 13D)8144S, 13E)8150S, DOOR SEAL ZERO	SILICONE	
14	1	FEAS-SEAL DOOR SWEEP. SEE SHTS. 11	TPE	MAX. 48"
15	2	END CHANNEL (14 GAGE - INVERTED)	.067" MIN. STL	.69" X 1.66" X 48" MAX.
16	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHT. 11	-
17	1	DOOR SLAB (16 OR 14 GAUGE)	SEE SHT. 5	4' X 8' MAX.
23	1	23A) TOP CAP CALV. A60	.020" MIN. STL	MAX. 48"
		23B) 18 GA DOOR FLUSH TOP CAP	.047" MIN. STL	MAX. 48"
24	1	IVES 698/U698 DOOR VIEWER	BRASS	-



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**OPENING DIMENSIONS,
LOCKING HARDWARE & BOM**

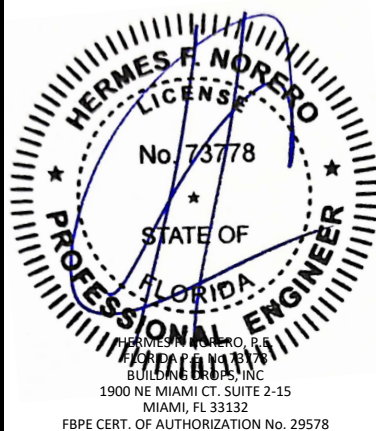
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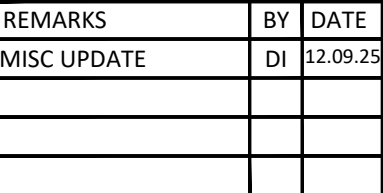
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DOOR & FRAME SECTION VIEWS

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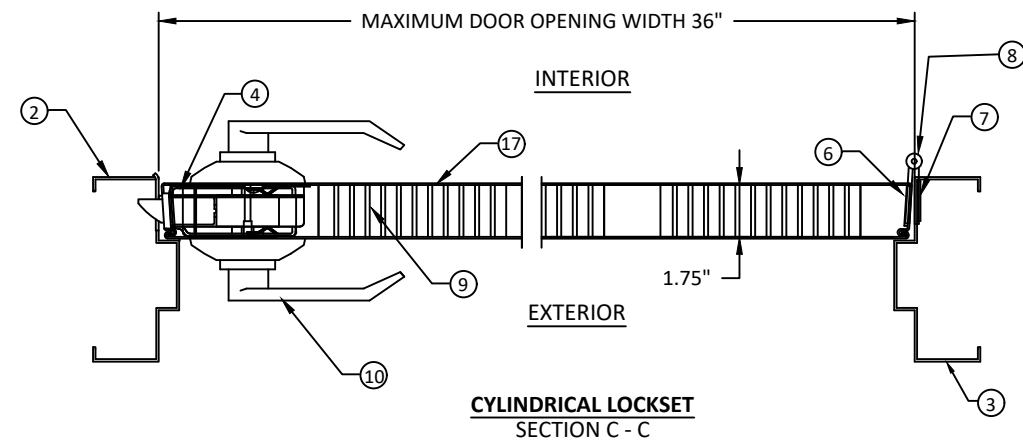
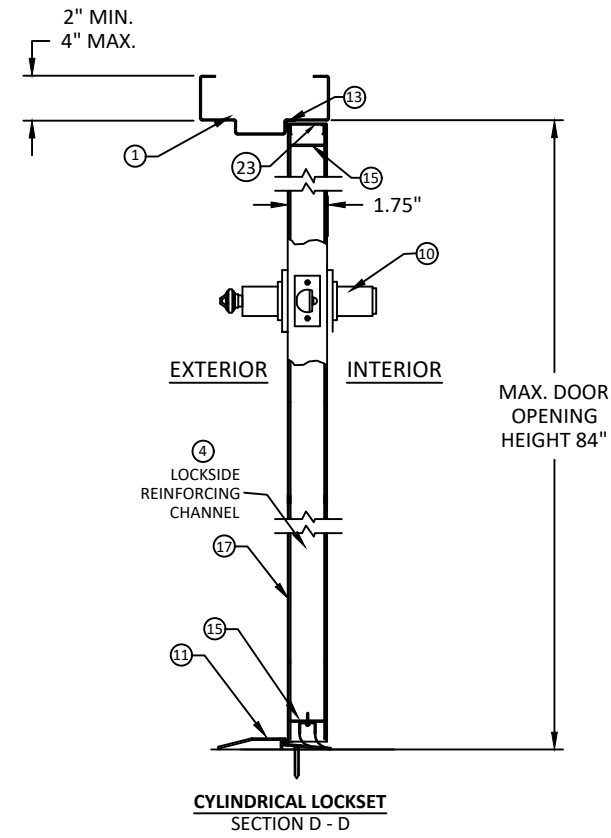


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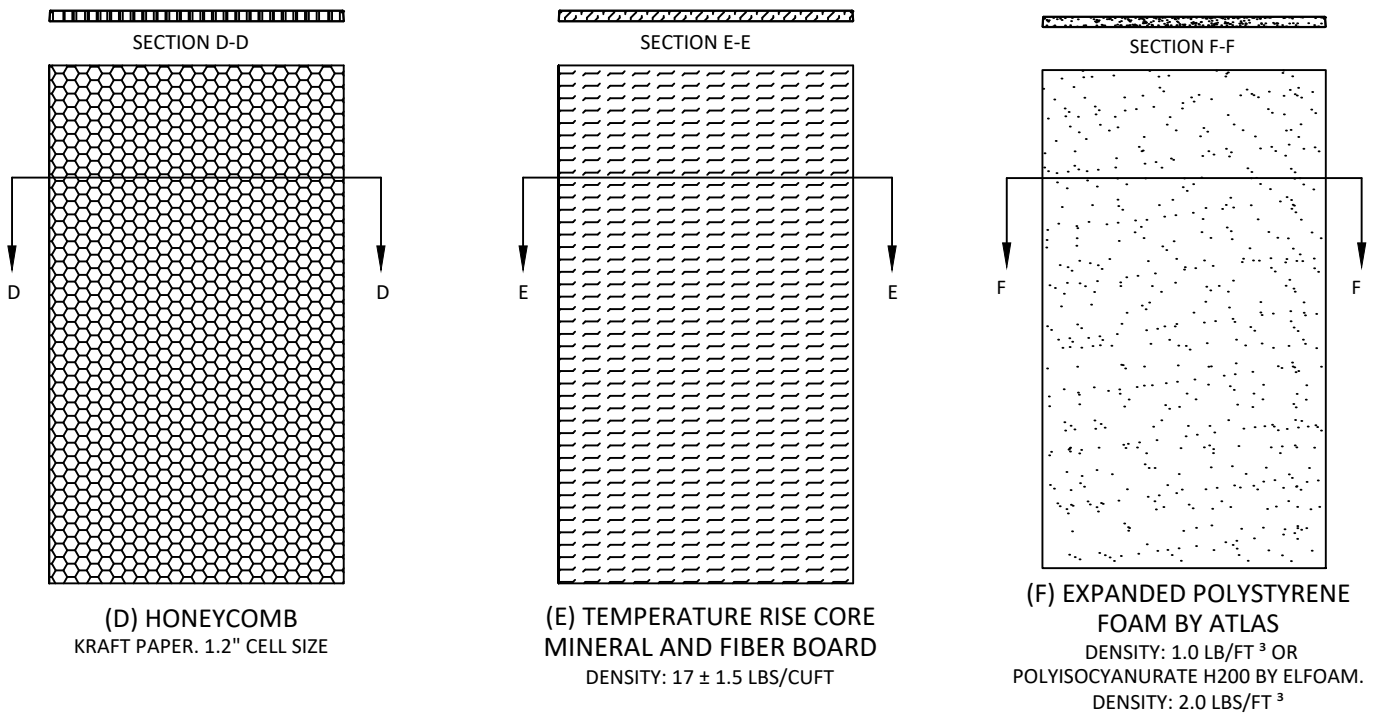
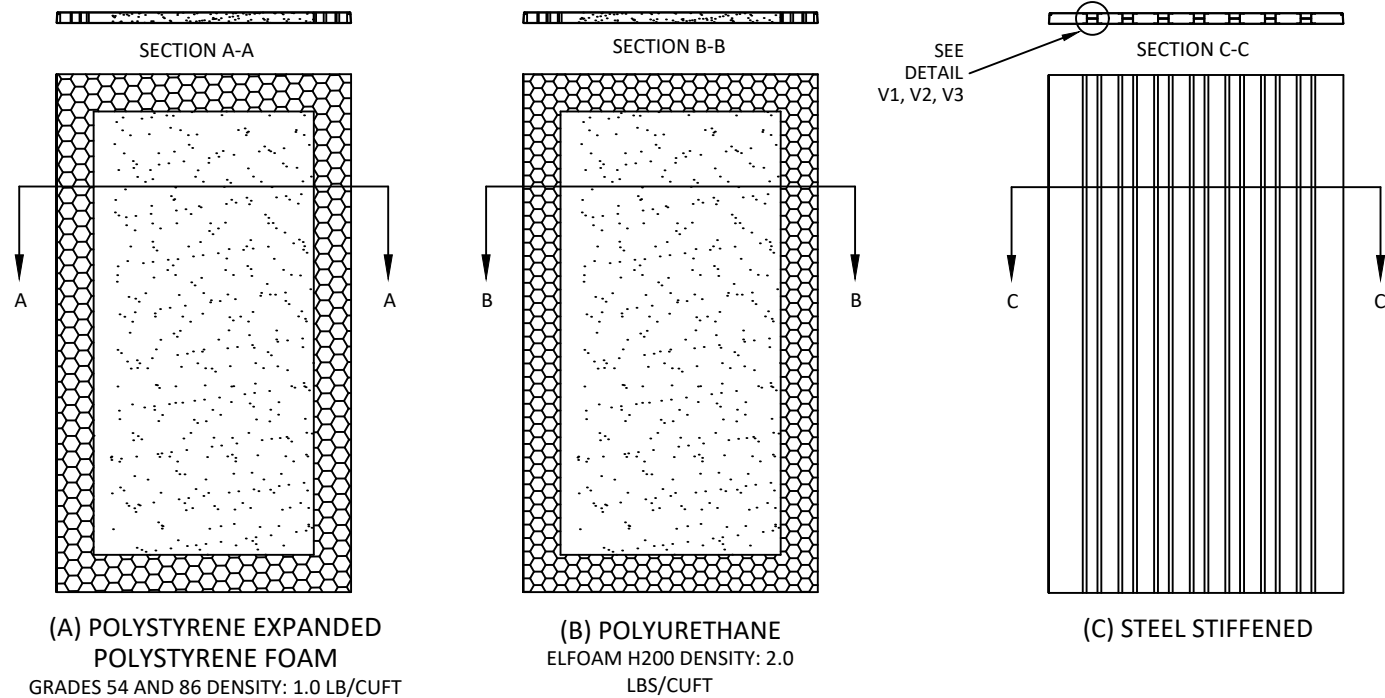
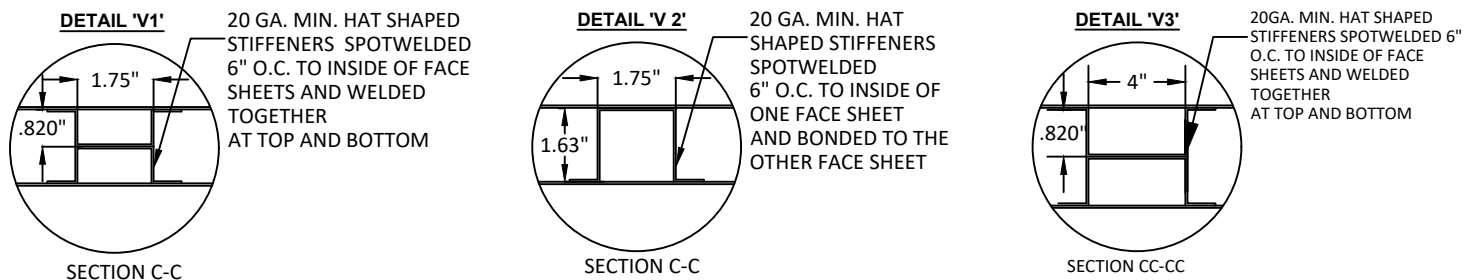
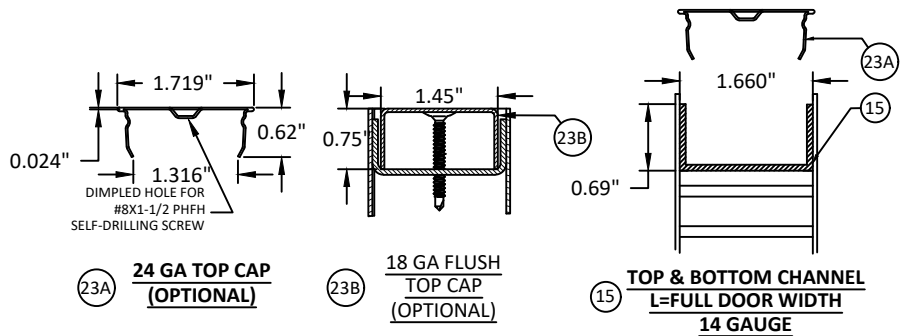


TABLE 3: AVAILABLE DOOR CONFIGURATIONS

DOOR SERIES	CORE MATERIAL	DOOR OPENING SIZE		SKIN MATERIAL	
		MAX WIDTH	MAX HEIGHT	DESCR.	GA./MIN. THK
H	HONEYCOMB POLYSTYRENE POLYURETHANE MINERAL BOARD STEEL-STIFFENED	3'0"	7'0"	GALV	16/.055" 14/.070"
COMMERCIAL EMBOSSED PANEL	POLYSTYRENE HONEYCOMB	3'0"	7'0"	GALV	18/.044" 16/.055"

TABLE 4: STEEL DOOR MECHANICAL PROPERTIES.

MATERIAL	ASTM REF.	DOOR	
		YIELD (KSI)	TENSILE (KSI)
CRS	ASTM A366	46 MIN.	52 MIN.
HRS	ASTM A1011	46 MIN.	52 MIN.
GALV: A60	ASTM A924	46 MIN.	52 MIN.



ALLEGION - SCHLAGE LOCK COMPANY, LLC.
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TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

DOOR PANEL & CORE DETAILS

PREPARED BY: BUILDING DROPS, INC.

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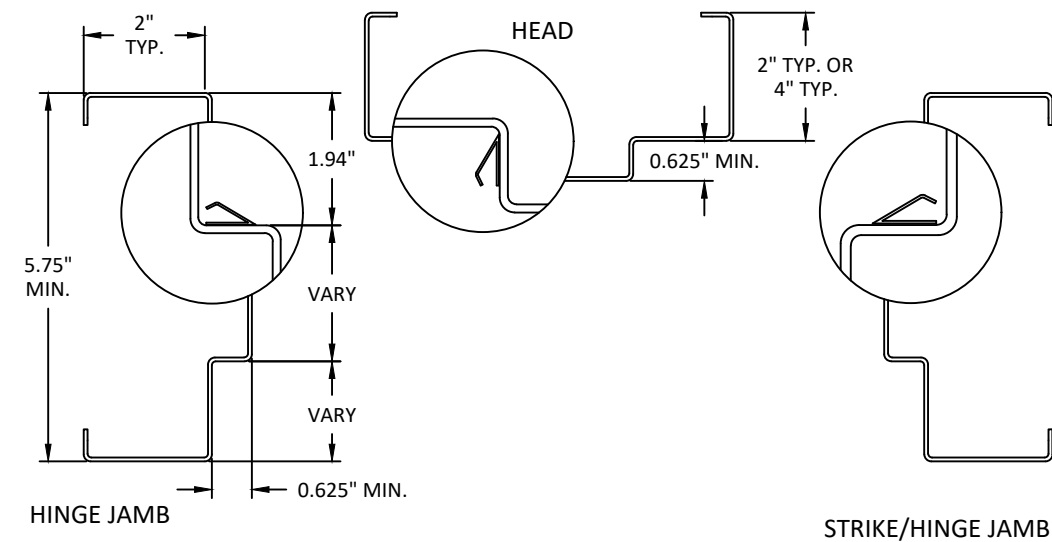
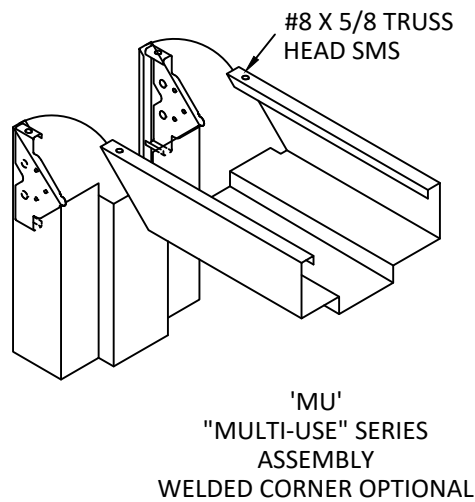
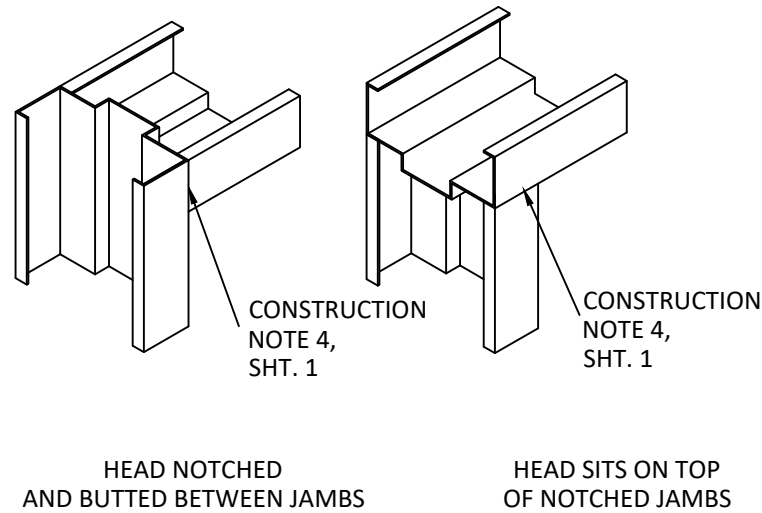
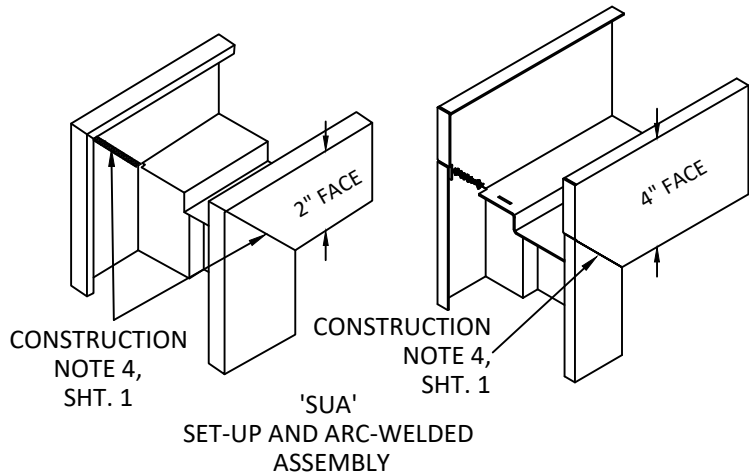
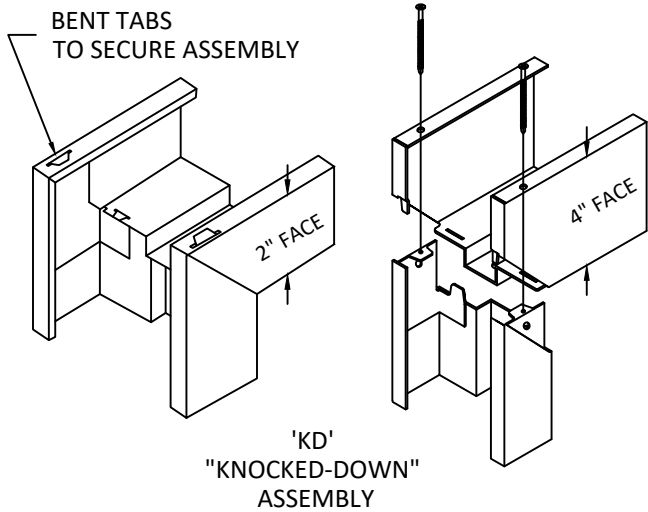
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WEATHERSTRIPPING DETAIL
WHEN WATER INFILTRATION IS NOT
REQUIRED SEE SHEET 11
(ALL DIMENSIONS TYPICAL
EXCEPT WHEN SPECIFIED)

TABLE 5: STEEL FRAME MECHANICAL PROPERTIES.

MATERIAL	ASTM REF.	FRAME	
		YIELD (KSI)	TENSILE (KSI)
CRS	ASTM 1008	46 MIN.	52 MIN.
HRS	ASTM A1011	46 MIN.	52 MIN.
GALV: A653	ASTM A924	46 MIN.	52 MIN.

TABLE 6: AVAILABLE FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM DOOR OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
MU	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"



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FRAME DETAILS &
CORNER CONSTRUCTION

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BUILDING DROPS, INC.
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FBPE CERT. OF AUTHORIZATION No. 29578

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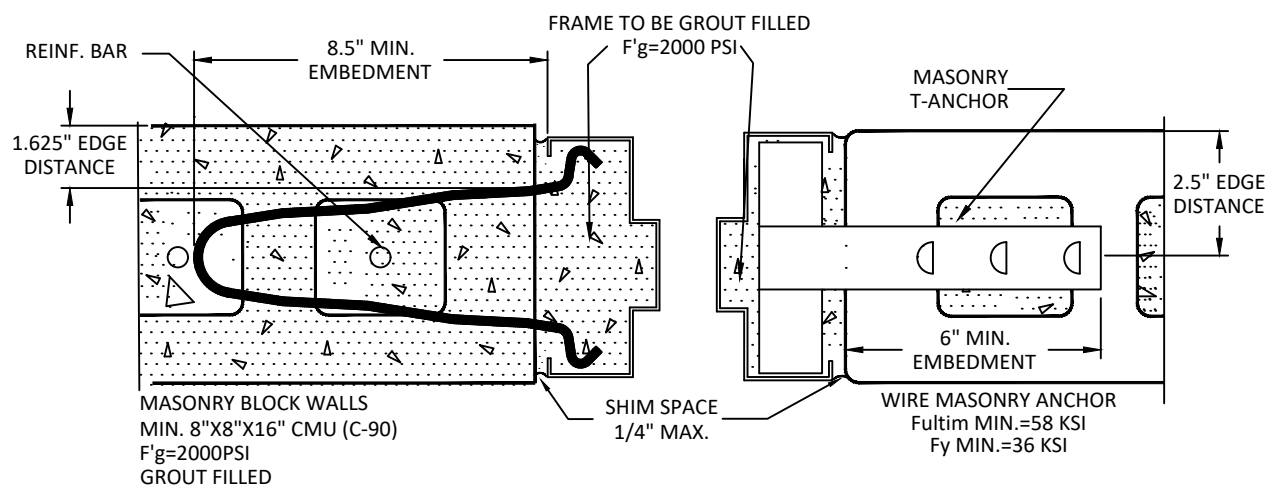
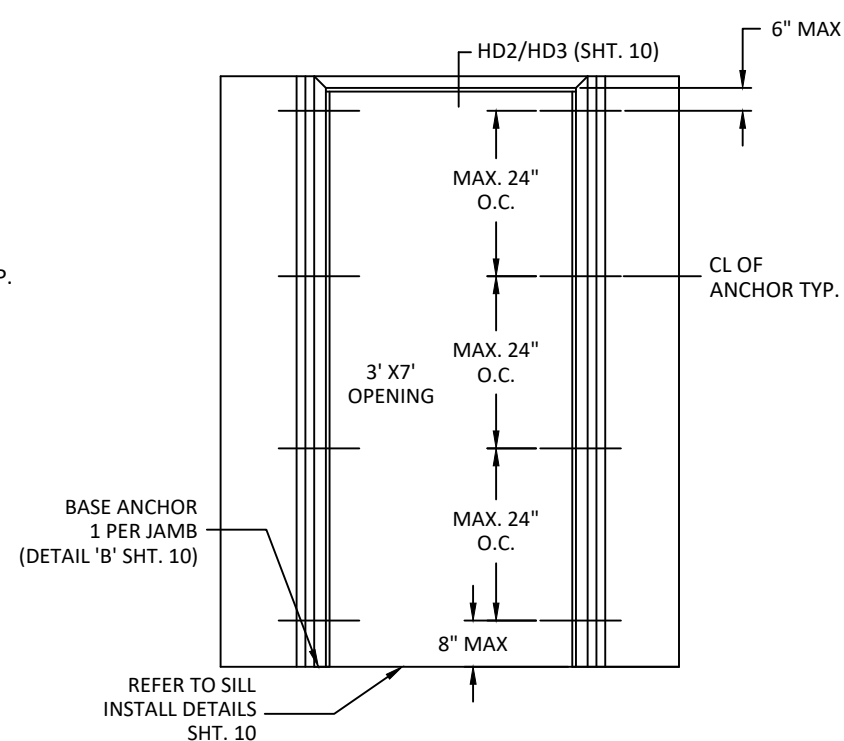
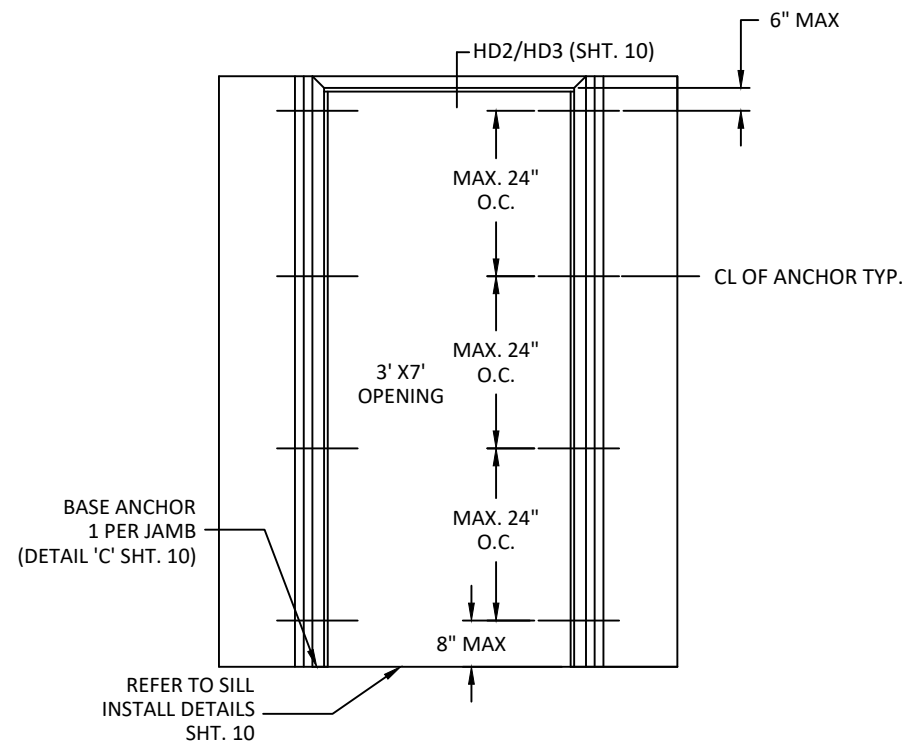
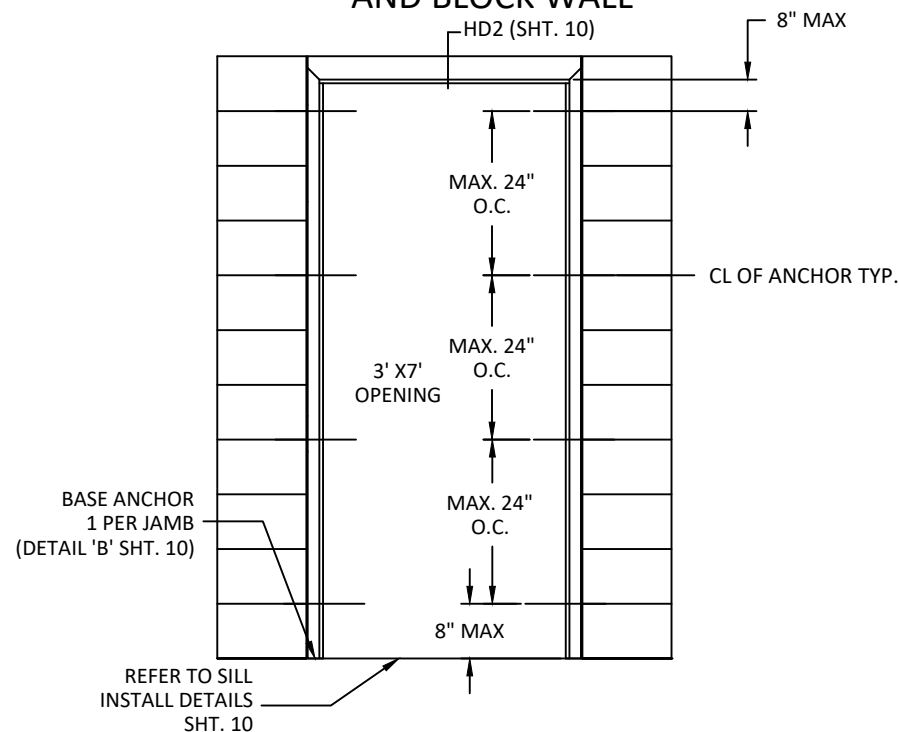
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OF 22

A MASONRY ANCHOR
INTO GROUT FILLED FRAME
AND BLOCK WALL



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ANCHORS - WIRE/MASONRY T,
WOOD STUD, STEEL STUD

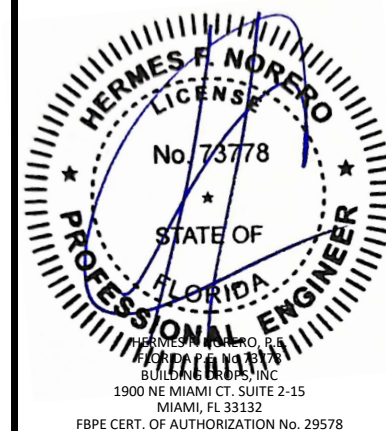
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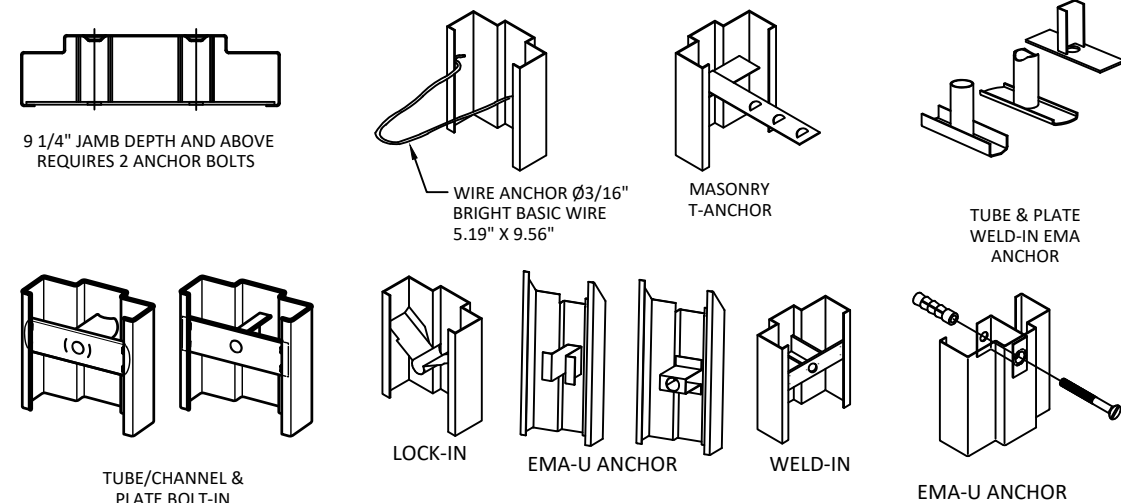
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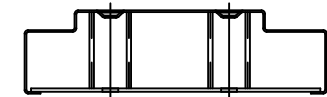


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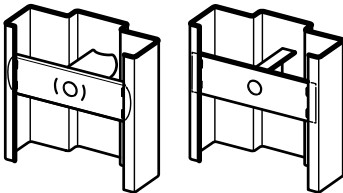
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WELDED ANCHOR
SHIM OR STEEL BUILDING
STRUCTURE

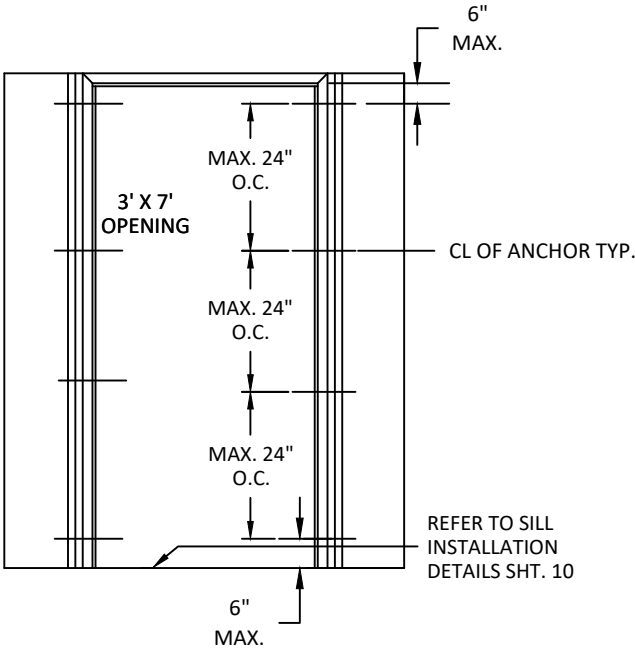
SEE SHEETS 18-22 FOR
OPTION 2 ANCHOR DETAILS



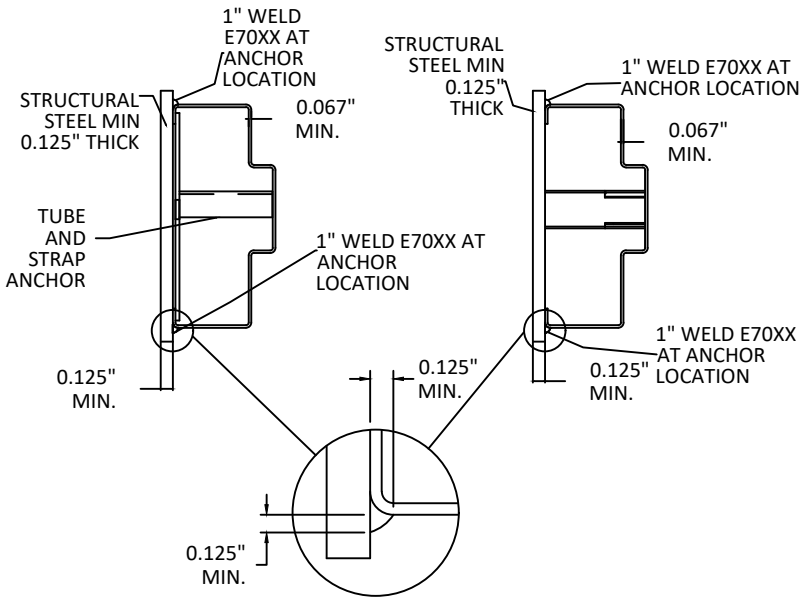
9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN



REFER TO SILL
INSTALLATION
DETAILS SHT. 10



- NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 3. APPLY CAULK AS NEEDED.
 4. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
 5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL AND MAY BE USED WITH ALL WALL TYPES.
 6. DETAILS SHOWN ABOVE REPRESENT REQUIREMENTS FOR INSWING AND OUTSWING DOORS.
 7. 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

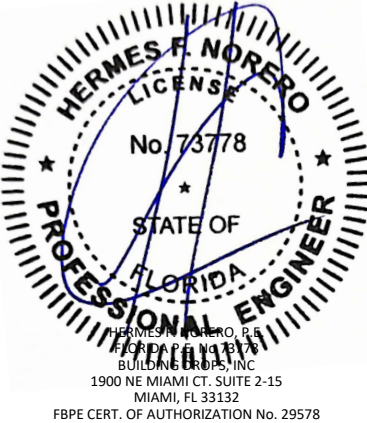
TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)
ANCHORS - FRAMES WELDED TO
STEEL STRUCTURE BUILDING

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



REMARKS	BY	DATE
MISC UPDATE	DI	12.09.25

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FL12400

DATE: 12.09.24

DWG. BY: JA
CHK. BY: HFN

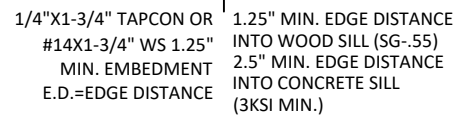
SCALE: NTS

DWG. #: FSIS

SHEET:

9

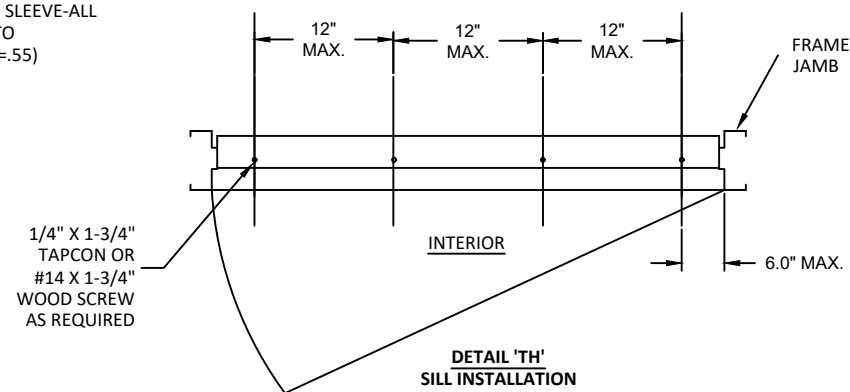
OF 22



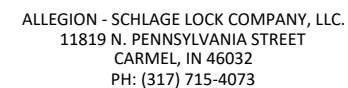
WITH 2" MIN. EMBEDMENT
DEWALT/POWERS POWER BOLT,
DEWALT/POWERS LOK BOLT AS,
HILTI HLC-FPH SLEEVE ANCHOR,
SIMPSON STRONG TIE SLEEVE-ALL
OR 3/8" LAG BOLT INTO
(2) 2X WOOD SILL (SG=55)

3.25" MIN.

UNIVERSAL ANCHOR
WELD-IN OR LOCK-IN



- NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 3. APPLY CAULK AS NEEDED.
 4. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
 5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL AND MAY BE USED WITH ALL WALL TYPES.
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SILL ANCHOR DETAILS

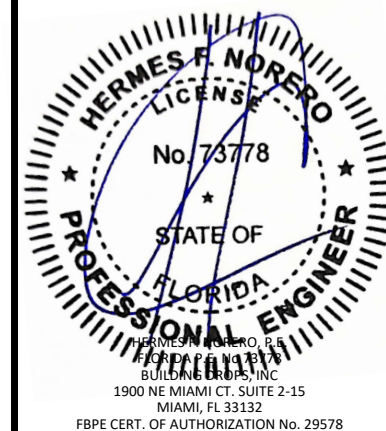
PREPARED BY:

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



REMARKS	BY	DATE
MISC UPDATE	DI	12.09.25

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FL12400

DATE: 12.09.24

DWG. BY: JA	CHK. BY: HFN
-----------------------	------------------------

SCALE: NTS

DWG. #: **FSIS**

SHEET:

10

OF 22

TABLE 7.1 INSWING NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

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

ZERO INT'L 566, 65 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 70PSF -
MAXIMUM DOOR SIZE 3'-0" X 7'-0"
(SEE ELEVATIONS SHEET 2)

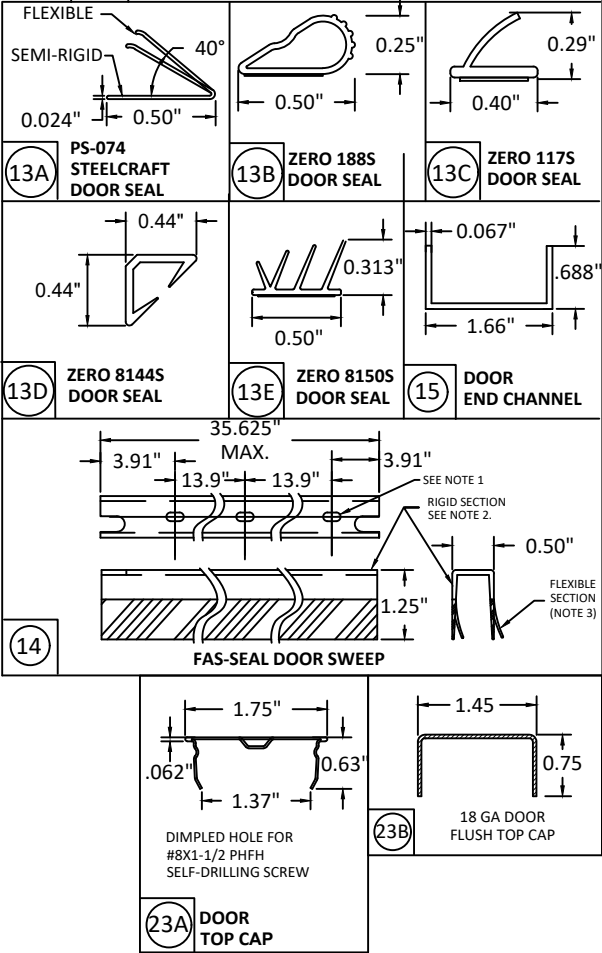
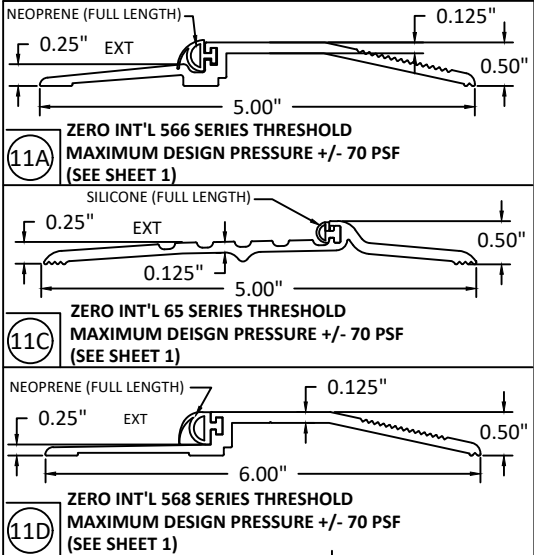
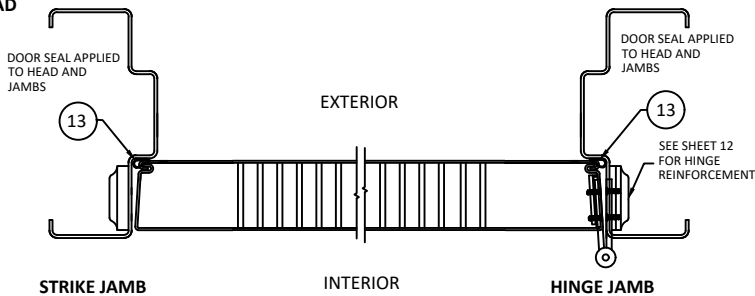
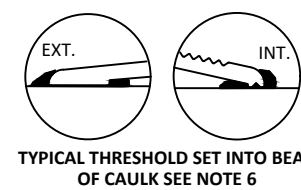
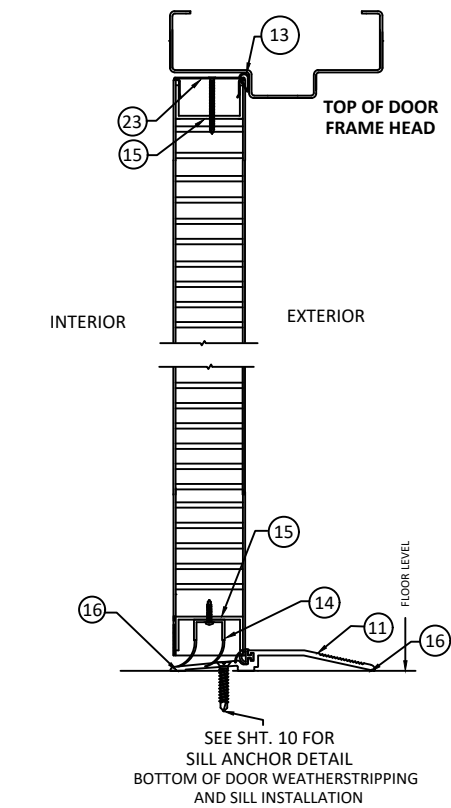
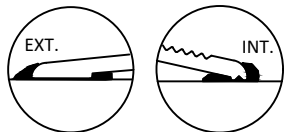
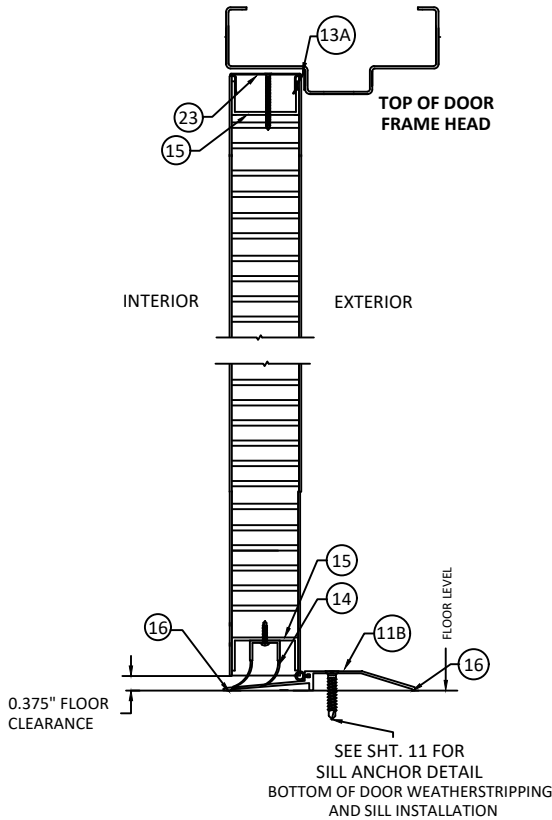


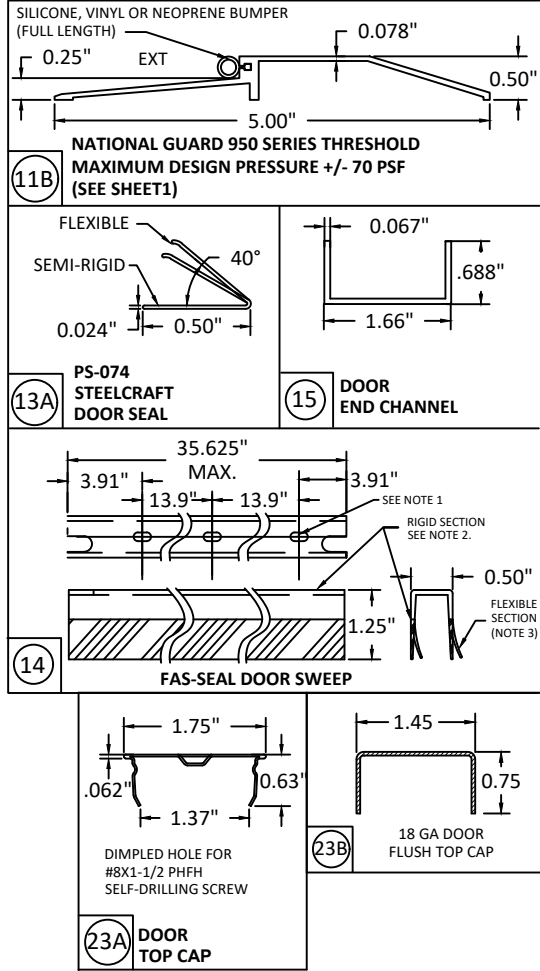
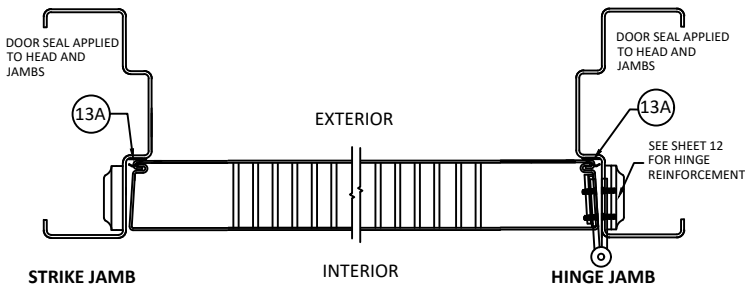
TABLE 7.2 INSWING NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

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

NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED -
MAXIMUM DESIGN PRESSURE +/- 70 PSF -
MAXIMUM DOOR SIZE OF 3'-0" X 7'-0"
(SEE ELEVATIONS SHEET 2)



TYPICAL THRESHOLD SET INTO BEAD OF CAULK SEE NOTE 6



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
 2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
 3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
 4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A OR 11B) 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 EACH SIDE OF SILL.
 7. APPLY CAULK TO THE ENTIRE INTERIOR AND EXTERIOR PERIMETER WHERE FRAME MEETS SUBSTRATE.

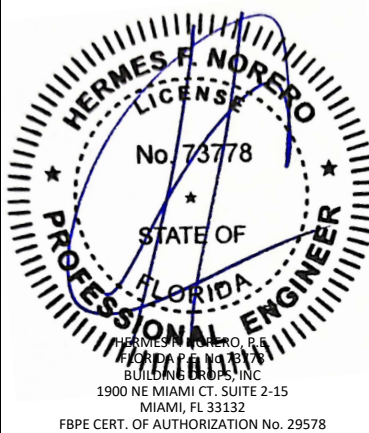


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

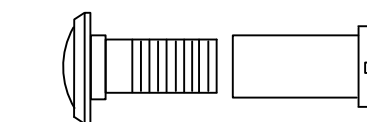
TITLE: SINGLE FLUSH INSWING COMMERCIAL STEEL DOOR (HVHZ) (IMPACT)
INSWING GASKETING DETAILS FOR NO WATER INFILTRATION
PREPARED BY: BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
MISC UPDATE	DI	12.09.25

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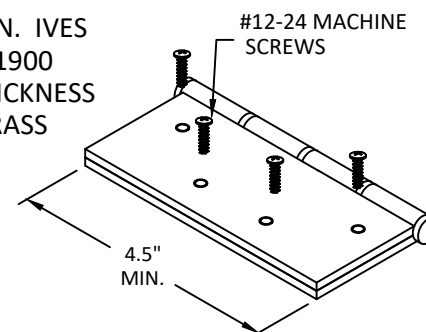


FL12400	
DATE:	12.09.24
DWG. BY:	JA
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	FSIS
SHEET:	11
OF 22	

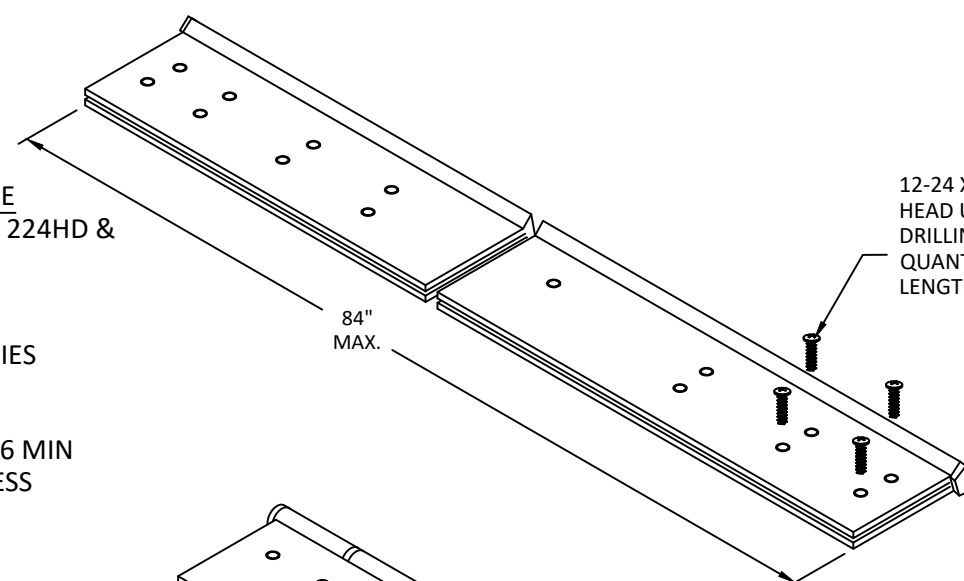


24 IVE 698/U698 DOOR VIEWER
APPLICATION LIMITED TO +/- 70 PSF DESIGN
PRESSURE OR LESS

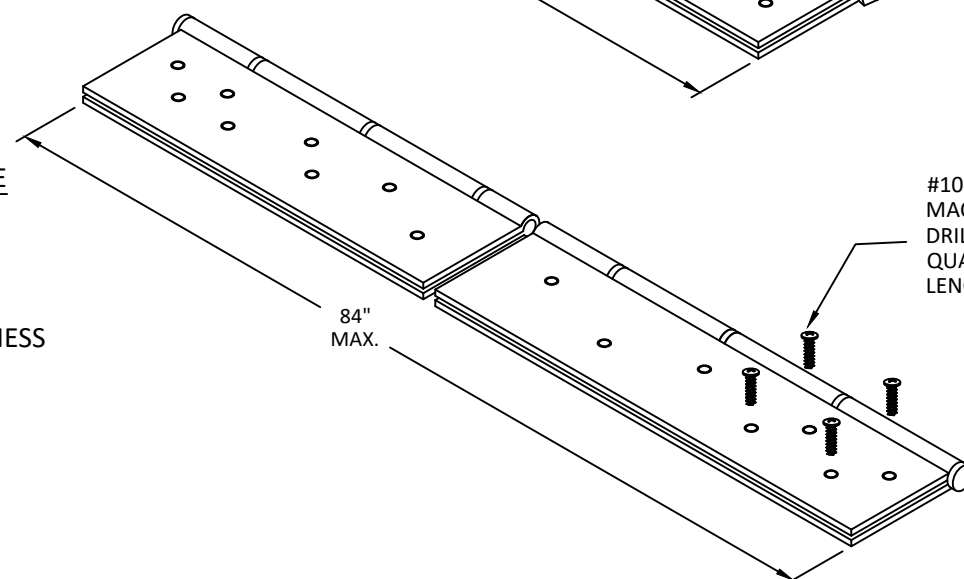
BUTT HINGE 4.5" STD. WT. MIN. IVES
5BB1/3CB1 STANLEY FBB179/1900
HAGER BB1279 .134" MIN. THICKNESS
STEEL, STAINLESS STEEL OR BRASS



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



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



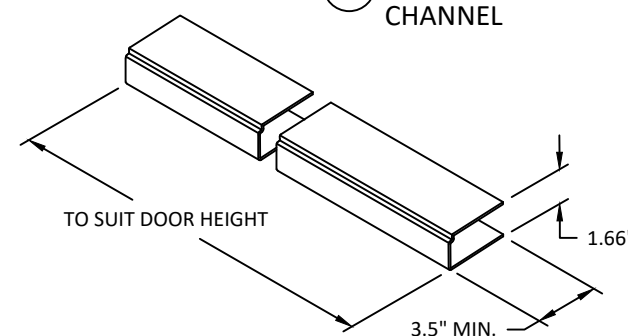
HINGE NOTES:

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

X 3/4" FLAT
UNDERCUT SELF
ING SCREW EACH HINGE LEAF
TITY VARIES PER HINGE
H

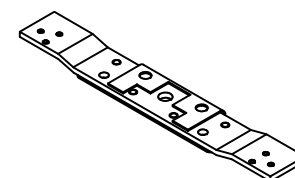
#10-24X 1/2" MIN.
MACHINE SCREW OR SELF
DRILLING EACH HINGE LEAF
QUANTITY VARIES PER HINGE
LENGTH

4 12 GA. (H-SERIES DOOR ONLY)
LOCK SIDE REINFORCING
CHANNEL



7 GA.
6 DOOR HINGE
REINFORCEMENT

7 GA.
7 FRAME HINGE
REINFORCEMENT



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

TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

HINGES & CHANNEL
REINFORCEMENT

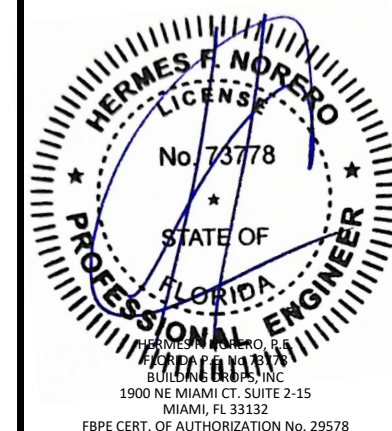
PREPARED BY:

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
MISC UPDATE	DI	12.09.25

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FL12400

DATE: 12.09.24

DWG. BY:
JA

CHK. BY:
HFN

SCALE: NTS

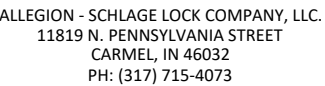
DWG. #: FSIS

SHEET:

12

OF 22

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



TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

EXPLODED VIEW:
MORTISE LOCKS

PREPARED BY:

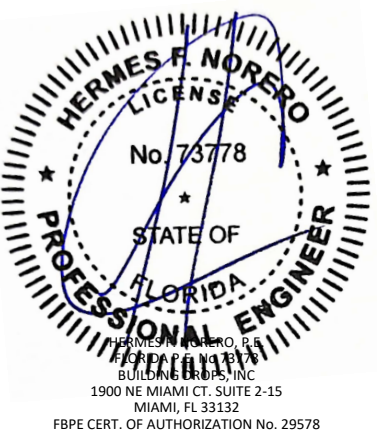


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DATE: 12.09.24

DWG. BY: JA	CHK. BY: HFN
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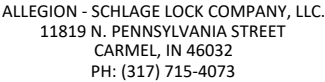
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DWG. #: **FSIS**

SHEET:

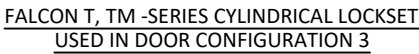
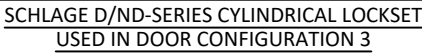
13

DF 22



EXPLODED VIEW:
CYLINDRICAL (BORED) LOCK

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



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



FL12400

DATE: 12.09.24

DWG. BY:
JA

CHK. BY:
HFN

SCALE: NTS

DWG. #: **FSIS**

SHEET:

14

OF 22

PREPARED BY: **BUILDING DROPS, INC.**



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DATE: 12.09.24

SCALE: NTS

SHEET: _____

DF 22

The image contains two technical drawings of door locks, labeled (a) and (b).

(a) MORTISE LOCK WITH OR WITHOUT DEADBOLT THROWN
 This drawing shows a side view of a door with a mortise lock. Key dimensions and features include:
 - A horizontal dimension of 40" MAX. TYP. for the lock body.
 - A horizontal dimension of 36" MAX. TYP. for the lock body.
 - A vertical dimension of 88" MAX. TYP. for the door height.
 - A vertical dimension of 84" MAX. TYP. for the door height.
 - A note: 2" TYP. OR 4" TYP. SEE NOTE 7, SHT. 1.

(b) CYLINDRICAL (BORED) LOCK
 This drawing shows a side view of a door with a cylindrical lock. Key dimensions and features include:
 - A horizontal dimension of 2.000 TYP. for the lock body.
 - A vertical dimension of 2" TYP. OR 4" TYP. SEE NOTE 7, SHT. 1.

Diagram illustrating four door panel styles, each with a width of 36 inches and a height of 84 inches:

- FLUSH:** A solid rectangular panel.
- EMBOSSED PANEL:** A panel featuring a grid of six small rectangular panels arranged in two columns and three rows.
- EMBOSSED PANEL:** A panel featuring two large rectangular panels stacked vertically.
- EMBOSSED PANEL:** A panel featuring a large arched panel at the top and a smaller rectangular panel at the bottom.

ITEM	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD, SEE SHT. 17	.053" MIN. STL	MAX 52"
2	1	STRIKE JAMB SEE SHT. 17	0.53" MIN. STL	MAX 100"
3	1	HINGE JAMB, SEE SHT. 17	.053" MIN. STL	MAX. 100"
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX
4A-D	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5" X 93.44" MAX
5				
6	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.167" MIN. STL	1.23" X 9.19" MIN.
6A	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.053" MIN. STL	1.63" X FULL HEIGHT-END CHANNELS
6B	NOTE 3, SHT. 1	HINGE REINFORCEMENT DOOR	.123" MIN. STL	1.375" X 4.5" MIN.
7	NOTE 3, SHT. 1	HINGE REINFORCEMENT FRAME	.167" MIN. STL	1.5" X 9.187" MIN.
8	NOTE 3, SHT. 1	4.5" MIN. BUTT HINGES	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE	.075" MIN.STL / .110 ALUM.	MAX. 84"
9	1	CORE MATERIAL:		
		D) HONEYCOMB C) STEEL STIFFENED	SEE SHT. 4	
		A&F) POLYSTYRENE B&F) POLYURETHANE/POLYISOCYANURATE		
		E) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE - LOCKSET	SEE SHT. 2 TABLE 2	
11	1	THRESHOLD SILL W/BUMPER GASKET SEE SHT. 11		5.0" X 0.5" X 96" MAX
		11A) 566 ZERO	.125" ALUM. 6063 T5	5.0" X 0.5" X 48" MAX
		11B) 950A NGP	.078" ALUM. 6063 T5	
		11C) 65 ZERO	0.125" ALUM. 6063 T5	
		11D) 568 ZERO	0.125" ALUM. 6063 T5	6.0" X 0.5" X 48" MAX
12	NOTE 2, SHT. 1	JAMB ANCHOR	SEE SHTS. 18-21	-
13	SEE SHT. 11	13A) PS074 DOOR SEAL	TPE	MAX. 20"
		13B) 188S, 13C) 117S, 13D)8144S, 13E)8150S, DOOR SEAL ZERO	SILICONE	
14	1	FAS-SEAL DOOR SWEEP SEE SHTS. 18-19	TPE	MAX. 48"
15	-	-	-	-
16	AS NEEDED	CAULK - BUTYL RUBBER OR SILICONE	SEE SHT. 11	-
17	1	DOOR SLAB (16 OR 14 GAUGE)	SEE SHT. 17	4' X 8' MAX.
24	1	IVES 698/U698 DOOR VIEWER	BRASS	-
25	2	END CHANNEL 16 GA - INVERTED OR FLUSH	.053" MIN. STL	.62" X 1.677"
26	2	END CHANNEL REINFORCEMENT (16 GA)	.053" MIN. STL	.62" X 1.677"

c:\users\ryanwata\building drops, inc\building drops, inc\building drops landing - common\projects\allegion\fb-25-1125 - commercial steel door & hardware revisions\dwgs\fl12400\fl12400_6\fsis.dwg 12/9/2025 1:26 PM

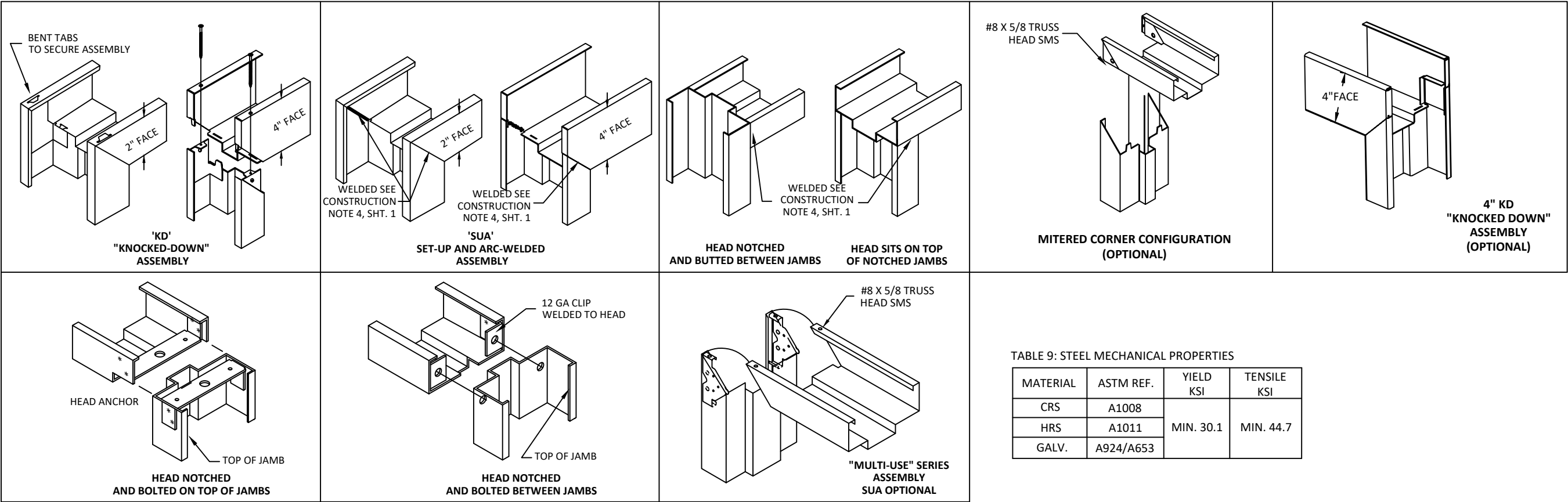


TABLE 9: STEEL MECHANICAL PROPERTIES

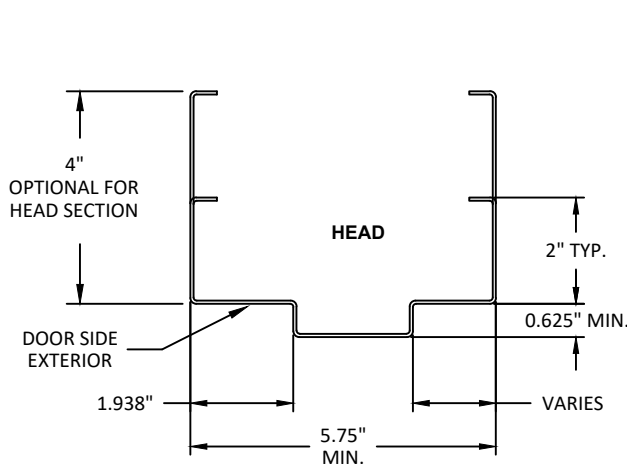
MATERIAL	ASTM REF.	YIELD KSI	TENSILE KSI
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV.	A924/A653		

TABLE 10: AVAILABLE REPUBLIC DOOR CONFIGURATIONS

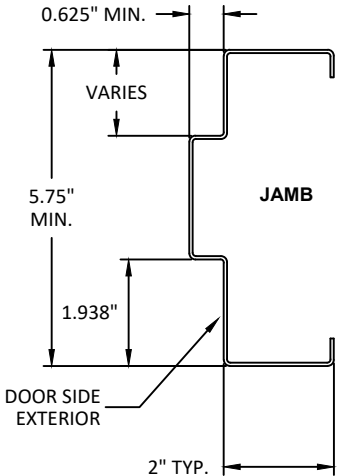
REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 10	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	3'0"	7'0"	CRS. GALV.	16/.053"
DE		3'0"	7'0"	CRS. GALV.	16/.053" 14/.067"

TABLE 11: AVAILABLE REPUBLIC FRAME CONFIGURATIONS

REPUBLIC FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
ME/SE	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	16/.053" 14/.067"
SE	5.75" MIN.	3'0"	7'0"	CRS/HRS GALV	12/.093"



TYPICAL FRAME PROFILE
DOUBLE RABBET



TYPICAL FRAME PROFILE
DOUBLE RABBET



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

TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

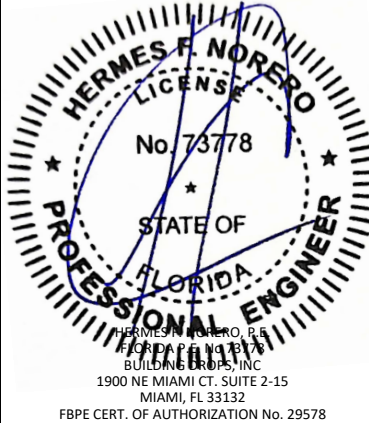
REPUBLIC DOORS: FRAME DETAILS
& CORNER CONSTRUCTION

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



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MISC UPDATE	DI	12.09.25

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



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: 12.09.24

DWG. BY: JA
CHK. BY: HFN

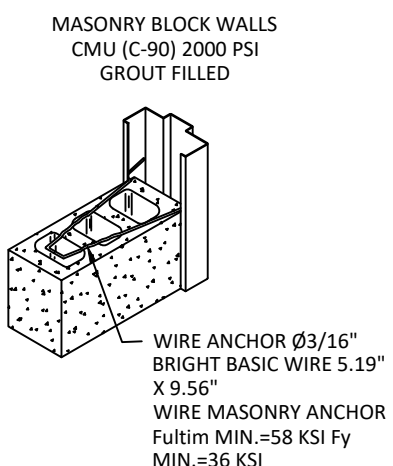
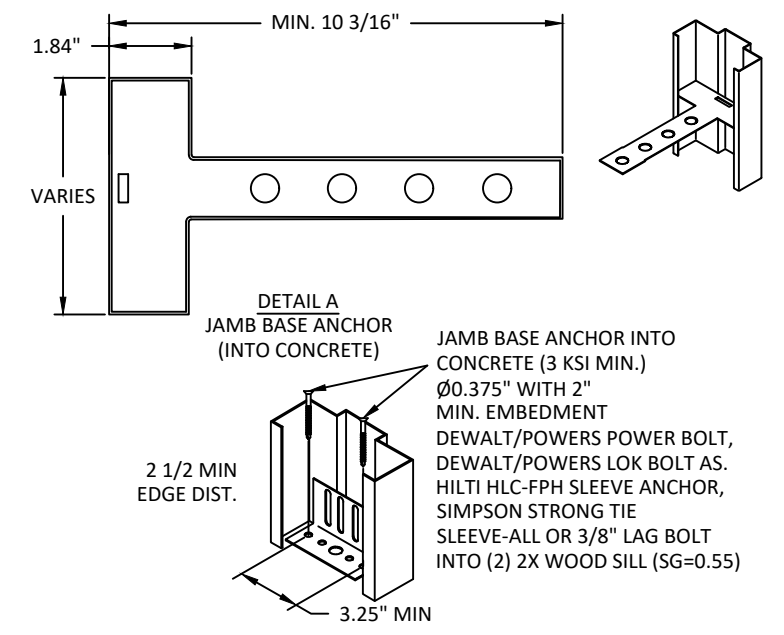
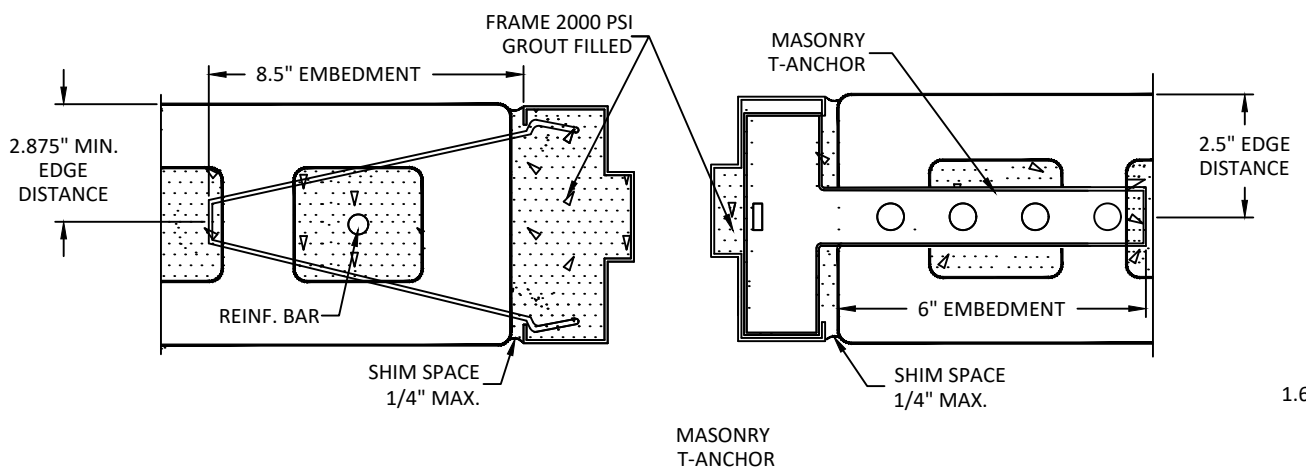
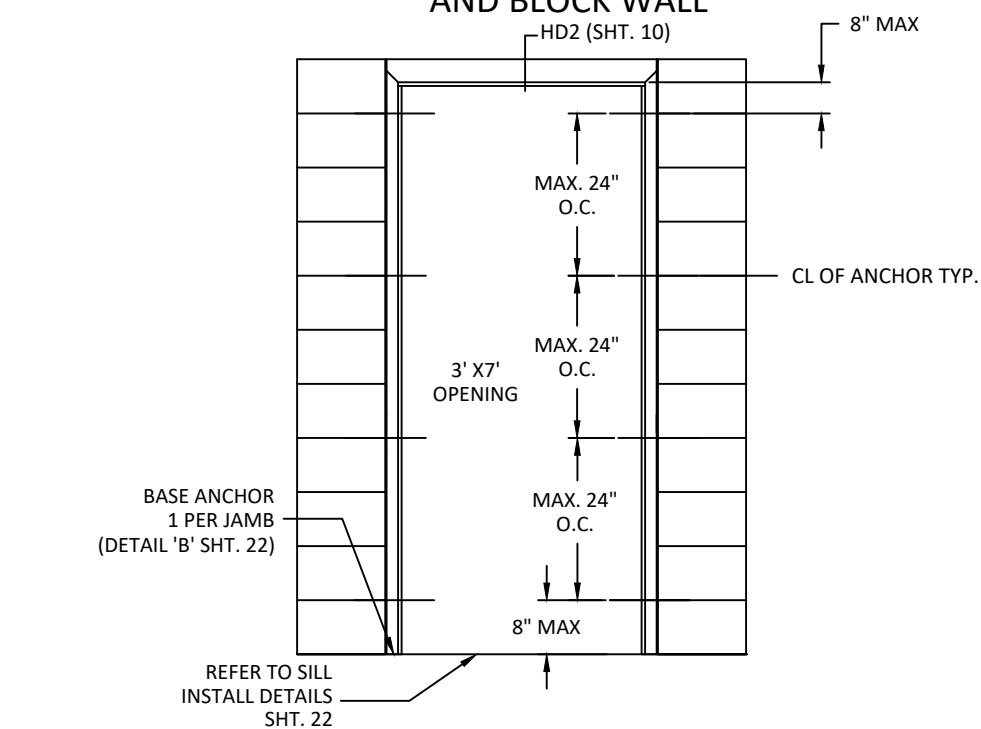
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DWG. #: FSIS

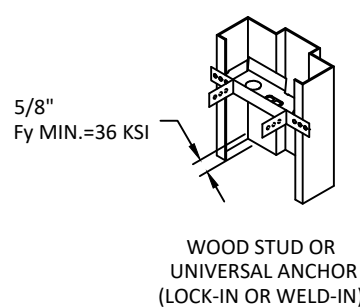
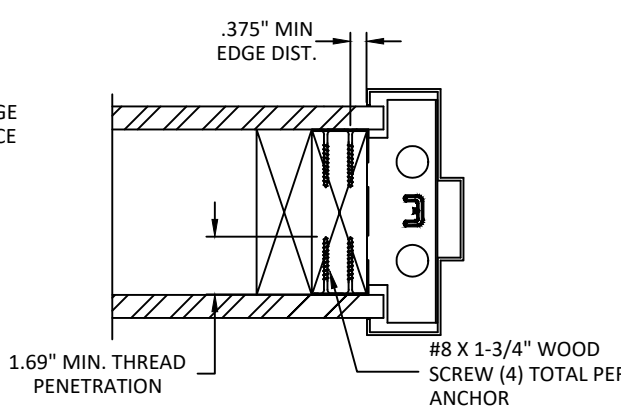
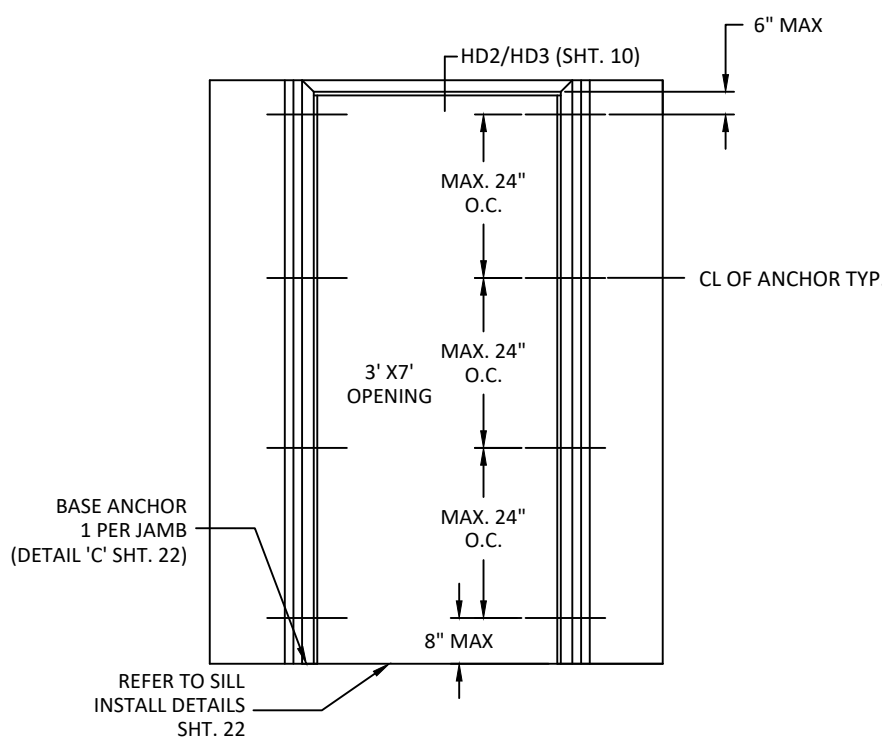
SHEET: 17
OF 22

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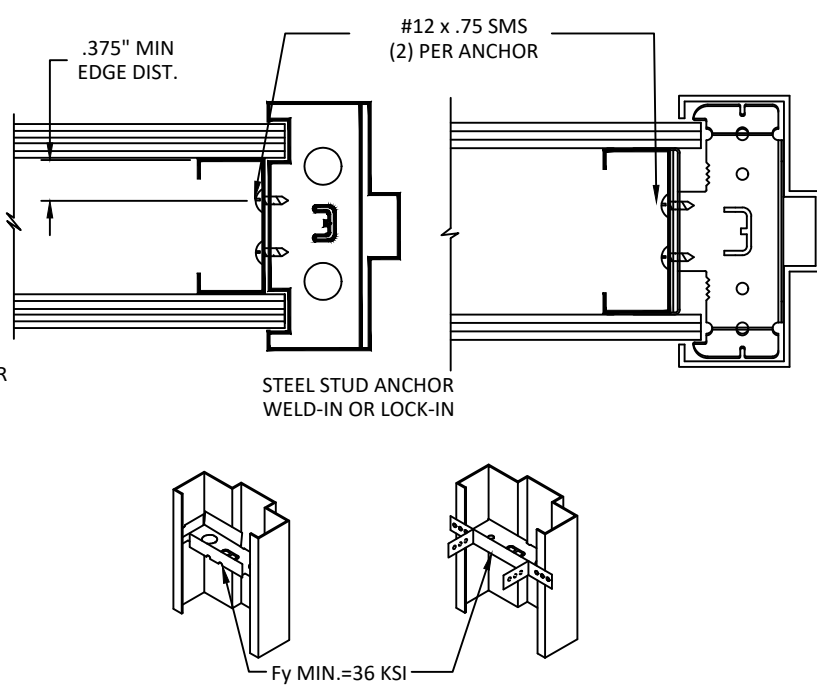
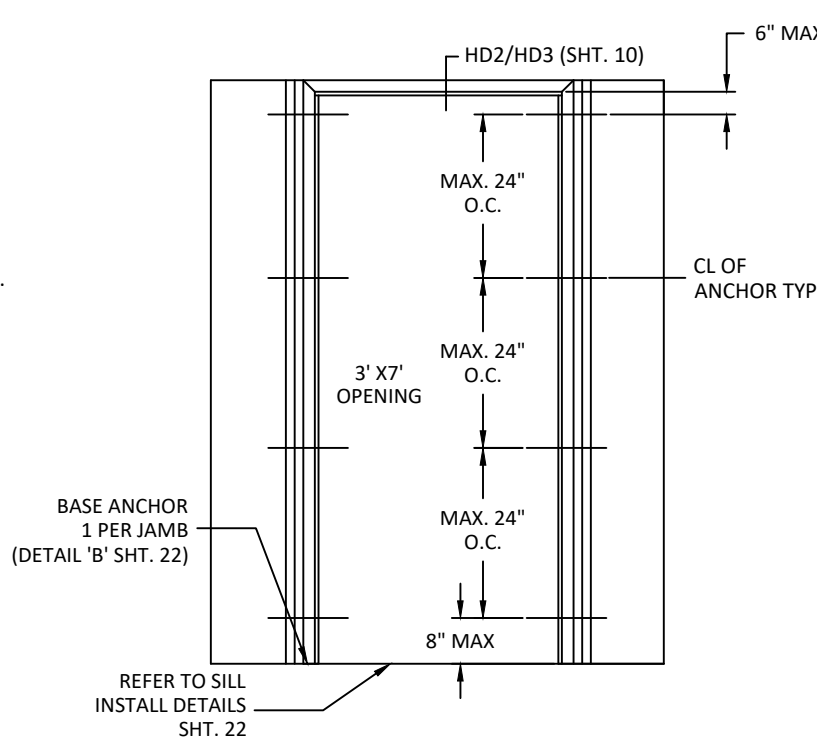
1 MASONRY ANCHOR INTO GROUT FILLED FRAME AND BLOCK WALL



2 WOOD STUD ANCHOR



3 STEEL STUD ANCHOR



NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL AND MAY BE USED WITH ALL WALL TYPES.
6. DETAILS SHOWN ABOVE REPRESENT REQUIREMENTS FOR INSWING AND OUTSWING DOORS.
7. 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.

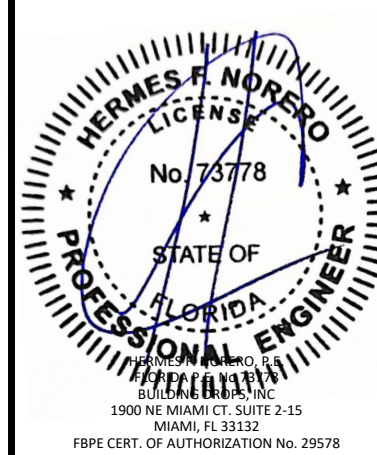


ALLEGION - SCHLAGE LOCK COMPANY, LLC.
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE: SINGLE FLUSH INSWING COMMERCIAL STEEL DOOR (HVHZ) (IMPACT)
REPUBLIC DOORS: ANCHORS - WIRE/MASONRY T, WOOD STUD, STEEL 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
MISC UPDATE	DI	12.09.25

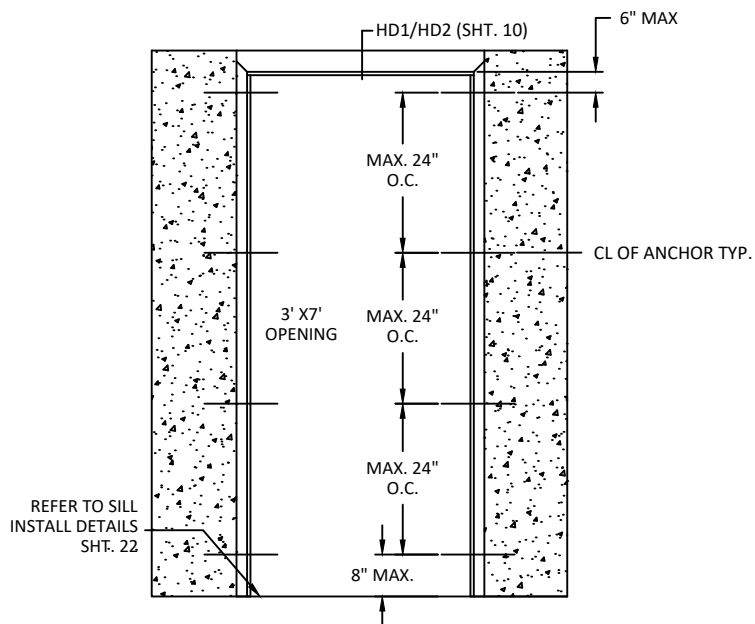
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



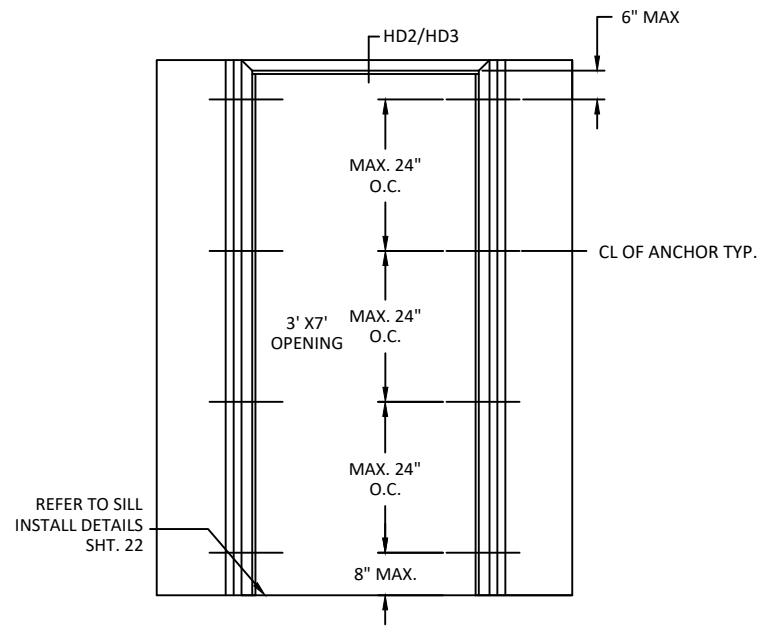
FL12400
DATE: 12.09.24
DWG. BY: JA
CHK. BY: HFN
SCALE: NTS
DWG. #: FSIS
SHEET: 18 OF 22

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

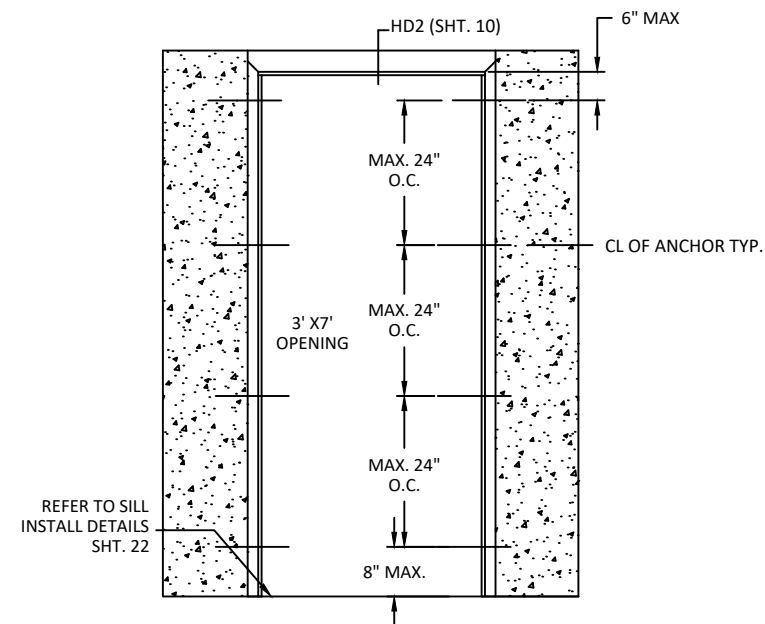


5 EXISTING MASONRY ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL

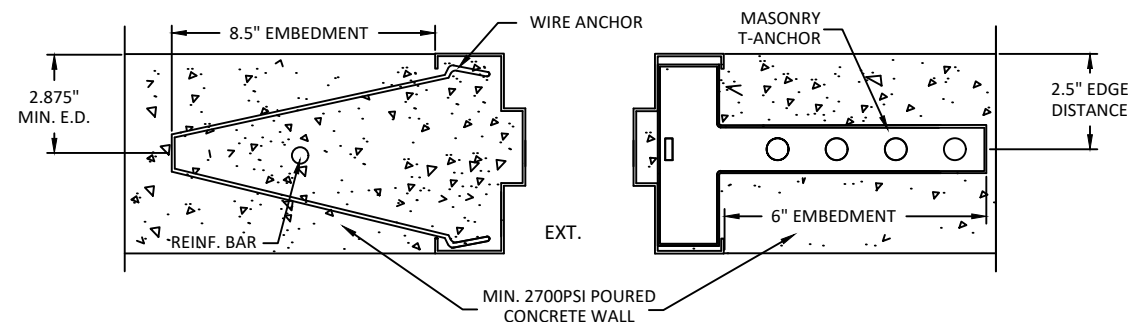
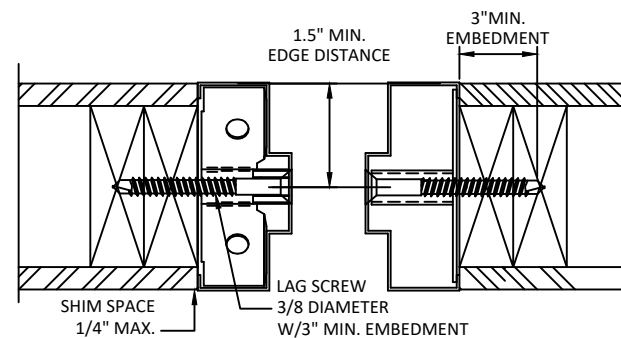
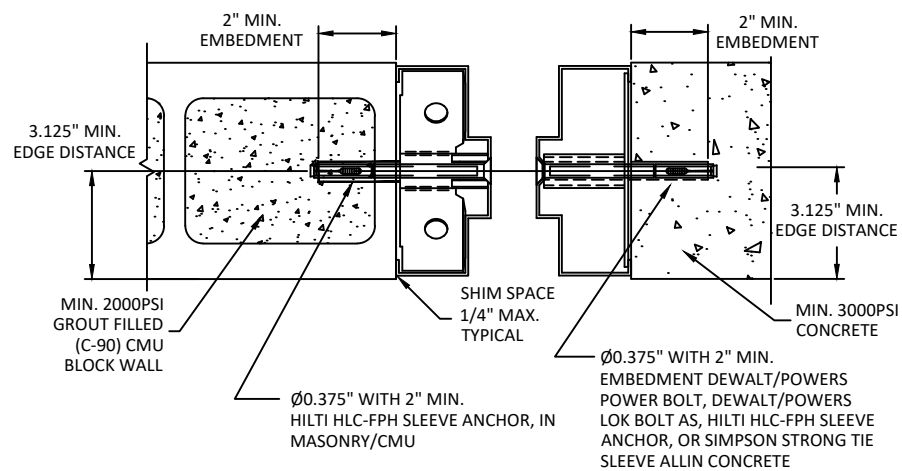


6 POURED CONCRETE TILT UP
WALL CONSTRUCTION

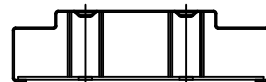
SEE SHEETS 6-10 FOR OPTION
1 ANCHOR DETAILS



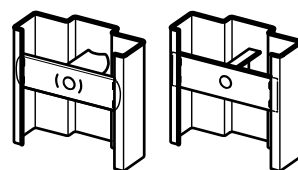
POURED CONCRETE OPTION
SEE ANCHOR DETAIL A FOR REQUIRED JAMB
ANCHORAGE WHEN POURED CONCRETE
SUBSTRATE IS USED



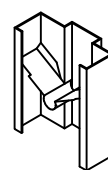
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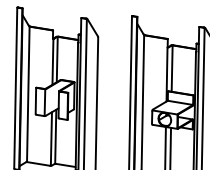
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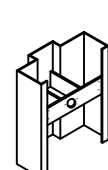
TUBE/CHANNEL &
PLATE BOLT-IN



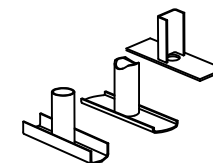
LOCK-IN



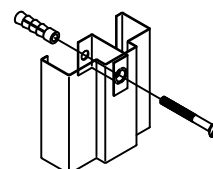
POA ANCHOR



WELD-IN



TUBE & PLATE
WELD-IN EMA
ANCHOR



POA ANCHOR

NOTES:

1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. MASONRY WIRE, T ANCHORS AND EXISTING MASONRY ANCHORS WITHOUT BOLT MAY BE USED IN MIN. 2700PSI POURED CONCRETE TILT UP WALLS.
5. FRAMES WITH 4\"/>
6. DETAILS SHOWN ABOVE REPRESENT REQUIREMENTS FOR INSWING AND OUTSWING DOORS.
7. 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

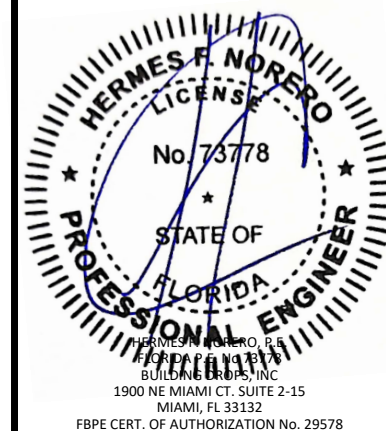
TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)
REPUBLIC DOORS: ANCHORS - EMA IN
CONCRETE OR CMU, EMA
TO WOOD STUDS OR WIRE/MASONRY T IN
POURED CONCRETE

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

BUILDING DROPS

REMARKS	BY	DATE
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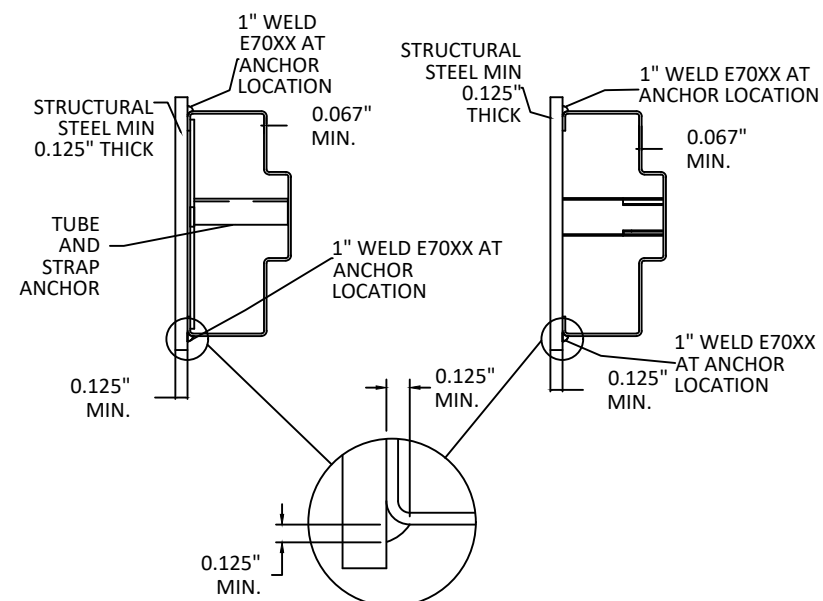
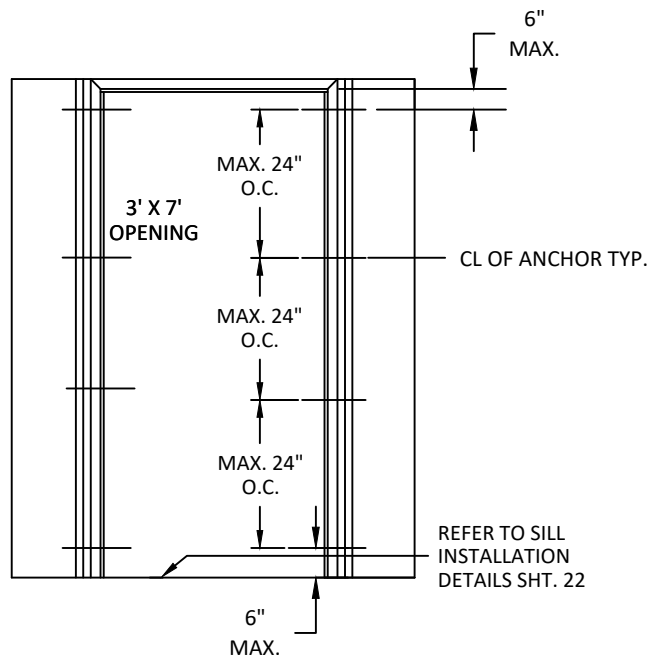
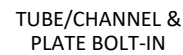
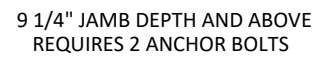
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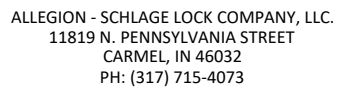
19

OF 22

SEE SHEETS 6-10 FOR OPTION
1 ANCHOR DETAILS



1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD DESIGN TO MEET THE REQUIREMENTS OF THE BUILDING CODE.
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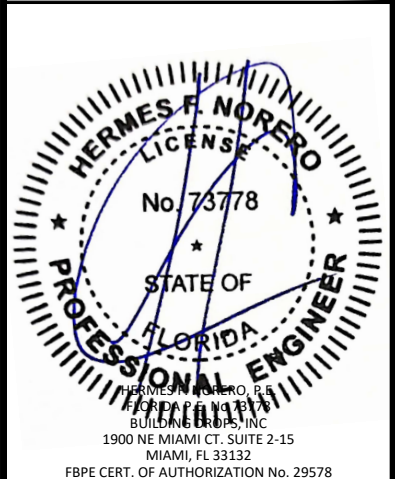
TITLE: SINGLE FLUSH INSWING
COMMERCIAL STEEL DOOR
(HVHZ) (IMPACT)

REPUBLIC DOORS: ANCHORS - FRAMES
WELDED TO STEEL STRUCTURE BUILDING

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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DATE: 12.09.24

DWG. BY:
JA

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HFN

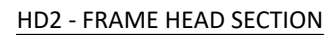
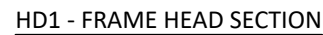
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DWG. #: **FSIS**

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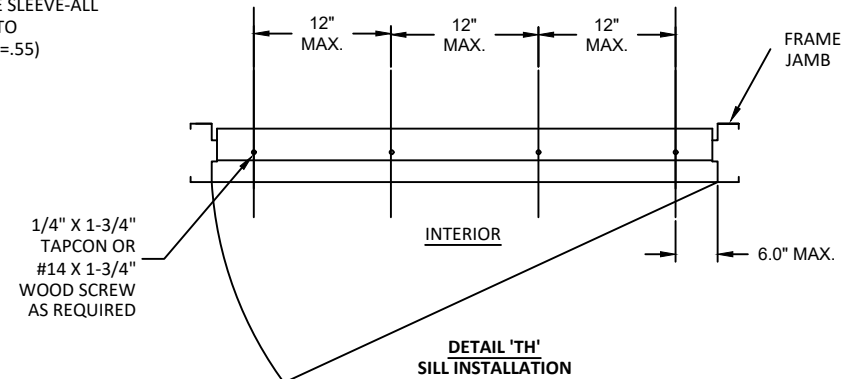
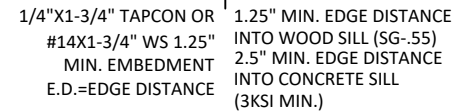
21

OF 22



#8 X 1-3/4" WOOD
SCREWS (4) TOTAL PER
ANCHOR

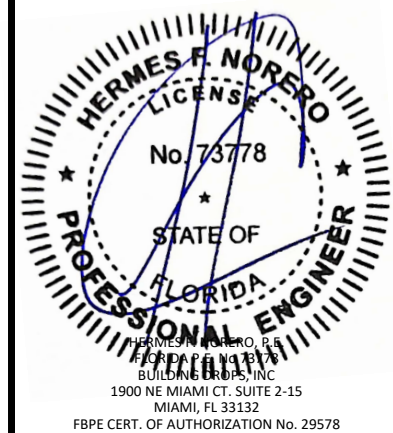
5/8"
F_y MIN.=36 KSI



TITLE: SINGLE FLUSH INSWING COMMERCIAL STEEL DOOR (HVHZ) (IMPACT)	REPUBLIC DOORS: SILL ANCHOR DETAILS	PREPARED BY: BUILDING DROPS, INC. 1300 NE MIAMI CT. SUITE 2-15 MIAMI, FL 33132 PH: (954) 399-8478 FAX: (954) 744-4738 WEB: www.buildingdrops.com 
 ALLEGION - SCHLAGE LOCK COMPANY, LLC. 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032 PH: (317) 715-4073		

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MISC UPDATE	DI	12.09.25

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DATE: 12.09.24

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

DWG. #: **FSIS**

SHEET:

22

OF 22