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ALLEGION - SCHLAGE LOCK COMPANY, LLC.

OUTSWING DOUBLE FLUSH WITH FALCON MA SERIES MORTISE LOCK (HVHZ)(IMPACT)

GENERAL NOTES:

1. THESE PRODUCTS COMPLY WITH THE CURRENT FLORIDA BUILDING CODE AND HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202, & 203-94 AND ASTM E1886, E1996 & E330-14.
2. THE DOORS ARE LARGE MISSILE IMPACT RATED.
3. DISSIMILAR MATERIAL IN CONTACT SHALL MEET FBC REQUIREMENTS.
4. ASSEMBLIES MEET FBC AIR INFILTRATION REQUIREMENTS.

NOTES:

1. WEATHERSTRIPPING - INSTALL PER SHTS. 16 & 17
2. ANCHOR REQUIREMENTS: SEE SHTS. 7 - 15 FOR APPROVED ANCHOR INSTALLATION REQUIREMENTS.
3. BUTT HINGE REQUIREMENTS:
 - FOR DOOR OPENING UP TO 60" HIGH - MIN. (2) HINGES
 - FOR DOOR OPENING OVER 60" - 90" HIGH - MIN. (3) HINGES
 - FOR DOOR OPENING OVER 90" - 96" HIGH - MIN. (4) HINGES
 - LOCATIONS: 7.125" MIN. - 9.75" MAX. FROM RABBET IN HEAD TO CL OF TOP HINGE
 - 9" MIN. - 12.25" MAX. FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.
 - HINGE SPACING MAY VARY, MAXIMUM SPACE NOT TO EXCEED 35 1/2" BETWEEN HINGES.
4. SEE SHTS. 2, 3, 19 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
5. HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS AND THESE DETAILS.
6. 4" FACE HEAD IS AVAILABLE WHEN GROUTED FULL.
7. APPLY CAULK AS NEEDED.
8. SEE SHT. 4 FOR SECTIONS A-A, B-B, C-C, D-D, AND E-E.
9. ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
10. OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE.

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. 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 5, SHT. 18). REPUBLIC DOOR FRAME OPTIONS AVAILABLE AS ME-SERIES AND SE-SERIES (SEE TABLE 9, SHT. 20).
3. FOR STEELCRAFT DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7, SHT. 18. FOR REPUBLIC DOORS DOOR/FRAME MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 11 SHT. 20.
4. FRAME CORNER WELD: CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION - E70XX. SEE SHEET 18 & 20 FOR DETAIL.

DESIGN PRESSURE RATING	
	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED
	OUTSWING
POSITIVE	+ 50 PSF
NEGATIVE	- 50 PSF

LARGE MISSILE IMPACT RATING	
TEST STANDARD	IMPACT
FBC TAS-201 ASTM E1886 & ASTM E1996	34 MPH (50 FPS) LEVEL "D"

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13	4-SIDED FRAME ANCHORS - EXISTING WALL JAMB ANCHOR W/ LAG SCREW INTO WOOD STUD WALL & INTO CONCRETE WALL OR CMU
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ALLEGION-SCHLAGE LOCK COMPANY, LLC
11819 N. PENNSYLVANIA STREET
CARMEL, IN 46032
PH: (317) 715-4073

TITLE:OUTSWING DOUBLE FLUSH WITH FALCON MA SERIES MORTISE LOCK (HVHZ)(IMPACT)

GENERAL NOTES & DESIGN PRESSURE TABLE

PREPARED BY:

BUILDING DROPS, INC.

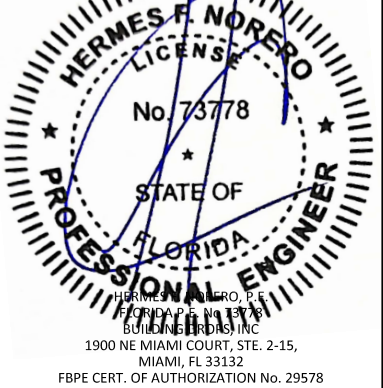
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BUILDING DROPS

REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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.

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Reason: I am approving this document
Date: 2026.02.08 18:24:12 -05'00'



FL #:

FL16740

DATE: 09.20.2024

DWG. BY: JACHK. BY: HNH

SCALE: NTS

DWG. #: FMADF

SHEET:

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OF 20

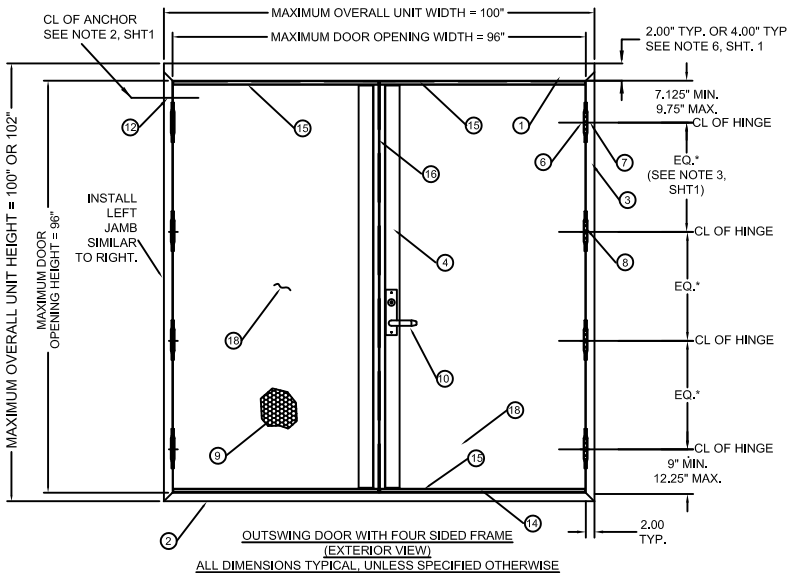
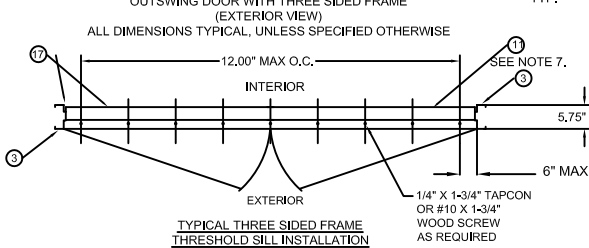
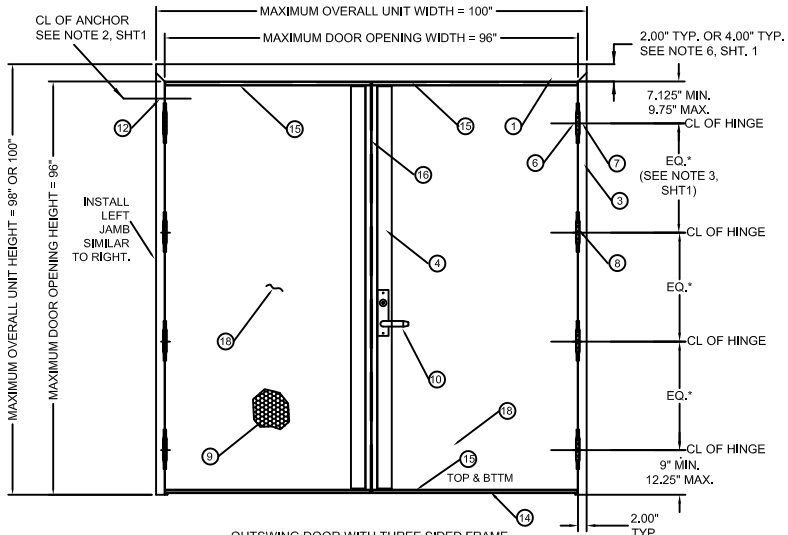


TABLE 1 (SEE TABLE 8, SHEET 19 FOR OPTION 2 CONFIGURATION)

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD (SEE SHT. 18)	.053" MIN. STL.	MAX. 100"
2	1	SILL JAMB (SEE SHT. 18)	.053" MIN. STL.	MAX. 100" HEIGHT.
3	2	HINGE JAMB (SEE SHT. 18)	.053" MIN. STL.	MAX. 102" HEIGHT.
4	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL.	3.5 X 93.44 MAX.
5				
6	NOTE3, SHT1	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
7	NOTE3, SHT1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.50" X 9.19" MIN.
8	NOTE3, SHT1	BUTT HINGES (SEE SHT. 5)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT. 5)	.067" MIN. STL/.11 ALUM	MAX. 95"
9	2	CORE MATERIAL (SEE SHT. 6):	D) HONEYCOMB C) STEEL STIFFENED A/F) POLYSTYRENE B/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE	
10	1	LOCKING HARDWARE- FALCON MA SERIES MORTISE LOCK W/SECTIONAL OR ESCUTCHEON TRIM		
11	1	THRESHOLD SILL W/BUMPER GASKET (SEE SHTS. 16 & 17) 1) ZERO 11A-T1)566A, 11B-T3)65A, 11C)568 2) NAT'L GUARD T2)950A, T4)803V	ALUM. 6063 T5	48" MAX.
12	NOTE2, SHT1	JAMB ANCHOR	SEE SHTS. 7-15	
13	1	PSO74 WEATHER STRIPPING	TPE	MAX. 24'
14	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
15	4	END CHANNEL (16 GA-INVERTED)	.053" MIN. STL.	.62" X 1.66" X 47.66" MAX.
16	1	Z ASTRAGAL	.067" MIN. STL.	MAX. 95.75"
17	AS NEEDED	BUTYL RUBBER, SILICONE OR LATEX W/ SILICONE		
18	2	DOOR SLAB (16 OR 14 GA)	SEE SHT. 20	48" X 96" MAX.
19	1	BY ZERO INT'L SEAL A)188S, B)117S, C)8145S, D)8150S, E)8042S	SILICONE	MAX. 24'
20	2	BY ZERO INT'L DOOR SEAL NO.5020		
		BY NGP DOOR SEAL NO.202N	TPE	MAX. 96"
21	2	BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39	SEE SHTS. 15 & 16	MAX. 48"
		BY NGP DOOR SEAL NO.200N		
22	2	BY ZERO INT'L ADJUSTABLE STOP NO.475	TPE	MAX. 48"
		BY NGP ADJUSTABLE STOP NO.170N		
23	1	BY ZERO INT'L DOOR SEAL NO.188S	SILICONE	MAX. 24'
23A	1	BY ZERO INT'L RAIN DRIP 142	ALUMINUM	MAX. 100"
23B	1	BY ZERO INT'L RAIN DRIP 11	ALUMINUM	MAX. 48"
24	1	24A) TOP CAP GALV. A60 24B) 18 GA DOOR FLUSH TOP CAP	.020" MIN. STL. .047" MIN. STL.	48" MAX.
25	2	IVES SB360 SURFACE BOLT	STEEL	12" MIN. - 24" MAX. LENGTH
26	1	SURFACE BOLT REINFORCEMENT	.067" MIN. STL.	8" MIN. 18" MAX.
27	2	VIEWER IVES U698/698		
28	1	ASA STRIKE		



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

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FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

STEELCRAFT DOUBLE OPENING OUTSWING
THREE AND FOUR SIDED FRAMES
CONFIGURATIONS

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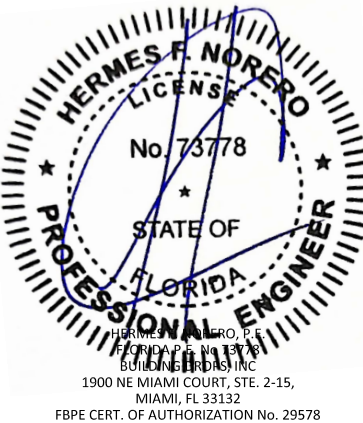
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MIAMI, FL 33132
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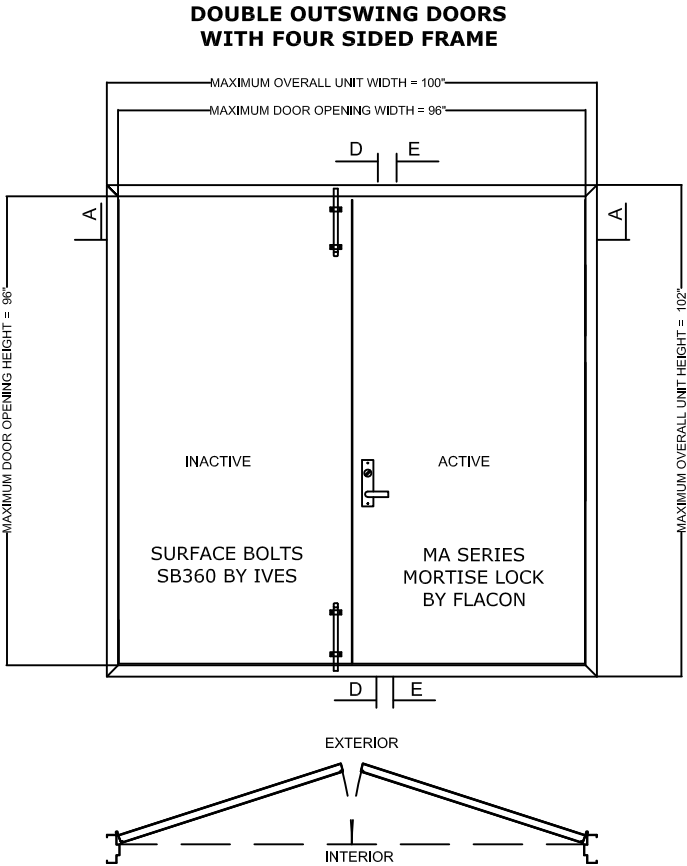
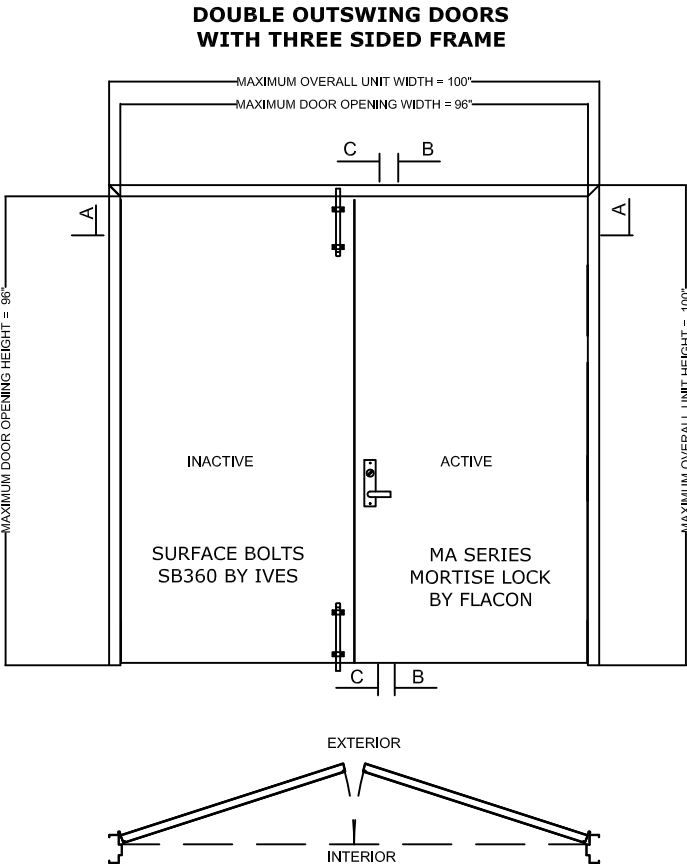
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DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	FMADF
SHEET:	2

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ALLEGION-SCHLAGE LOCK COMPANY, LLC
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CARMEL, IN 46032
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STEELCRAFT DOUBLE OPENING OUTSWING
THREE AND FOUR SIDED FRAMES
ELEVATION

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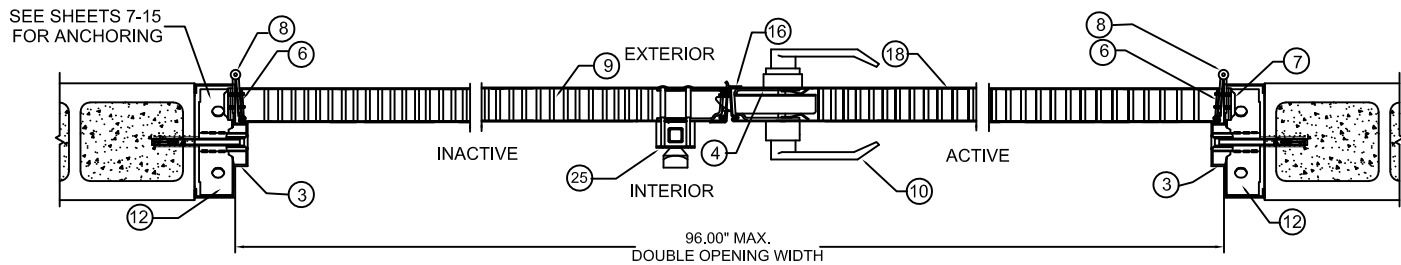
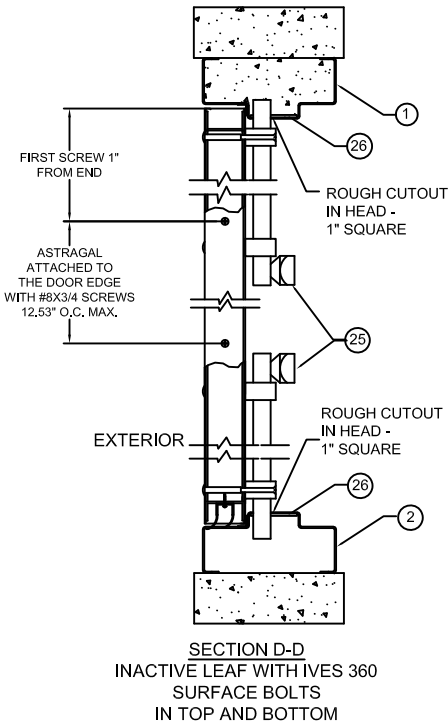
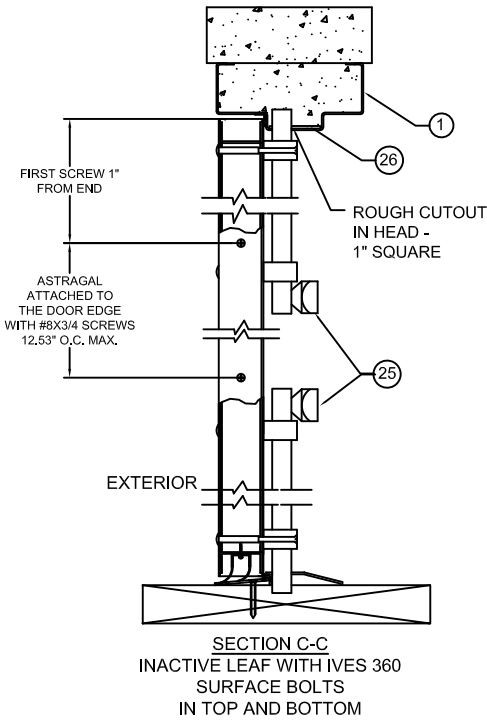
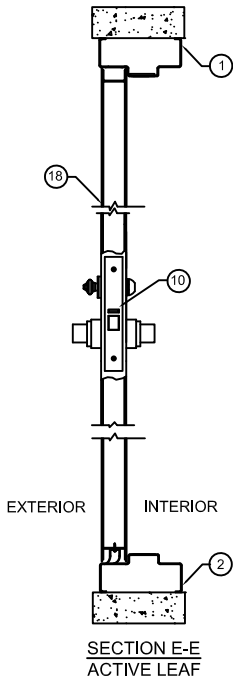
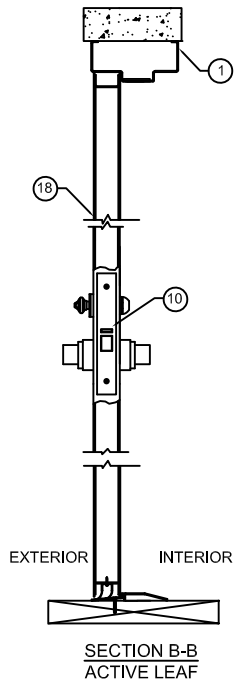
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SECTION A-A
MA LOCK ON ACTIVE LEAF AND
360 SURFACE BOLTS ON INACTIVE LEAF



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(HVHZ)(IMPACT)

STEELCRAFT DOUBLE OPENING INSWING &
OUTSWING SECTION VIEWS

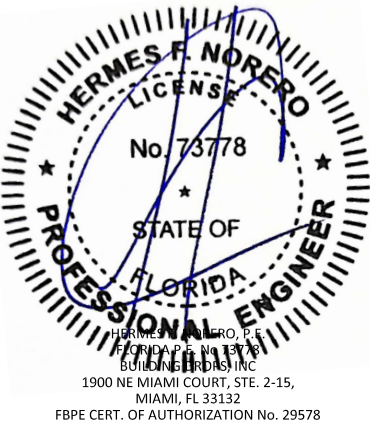
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BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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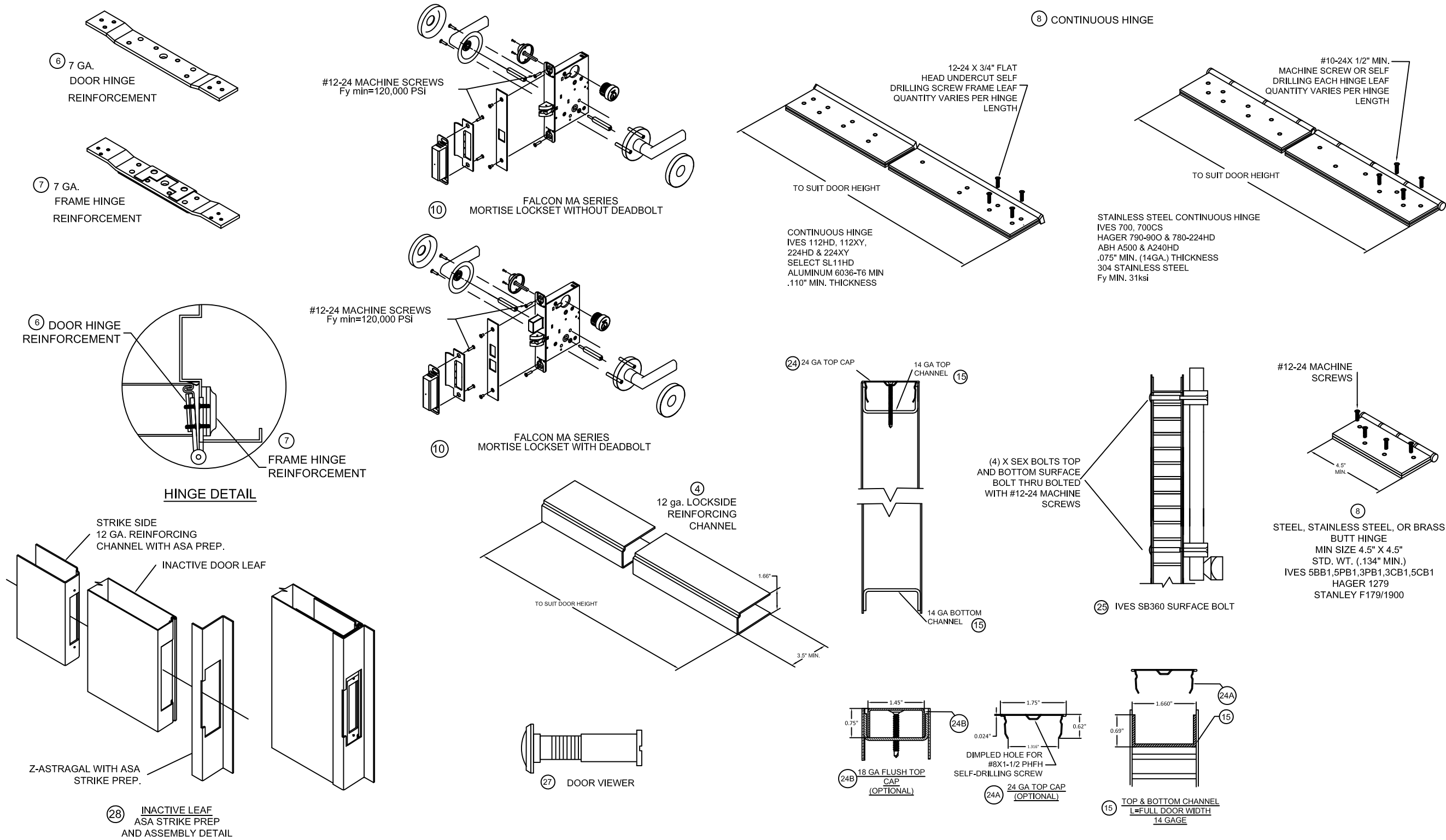
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NOTES:

1. SEE SHTS. 2, 3, 18, 19 & 20 FOR ELEVATION, MATERIAL AND SIZE
2. SEE SHTS. 7-15 FOR ANCHORING INFORMATION
3. SEE SHTS. 18 & 20 FOR FRAME PROFILE
4. APPROVED HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS
5. HEAD SECTION CAN HAVE 4" FACE DIMENSION WHEN IT'S GROUTED WITH CONCRETE

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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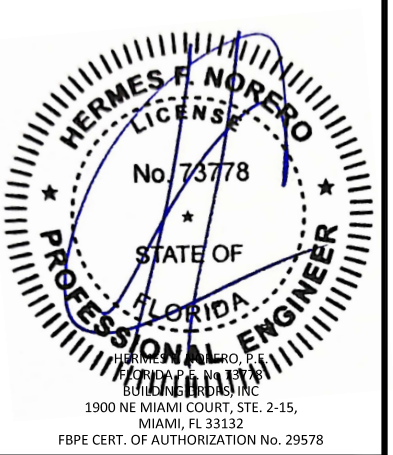
LOCKING HARDWARE & HINGE DETAILS

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

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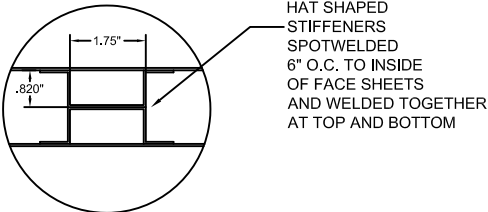
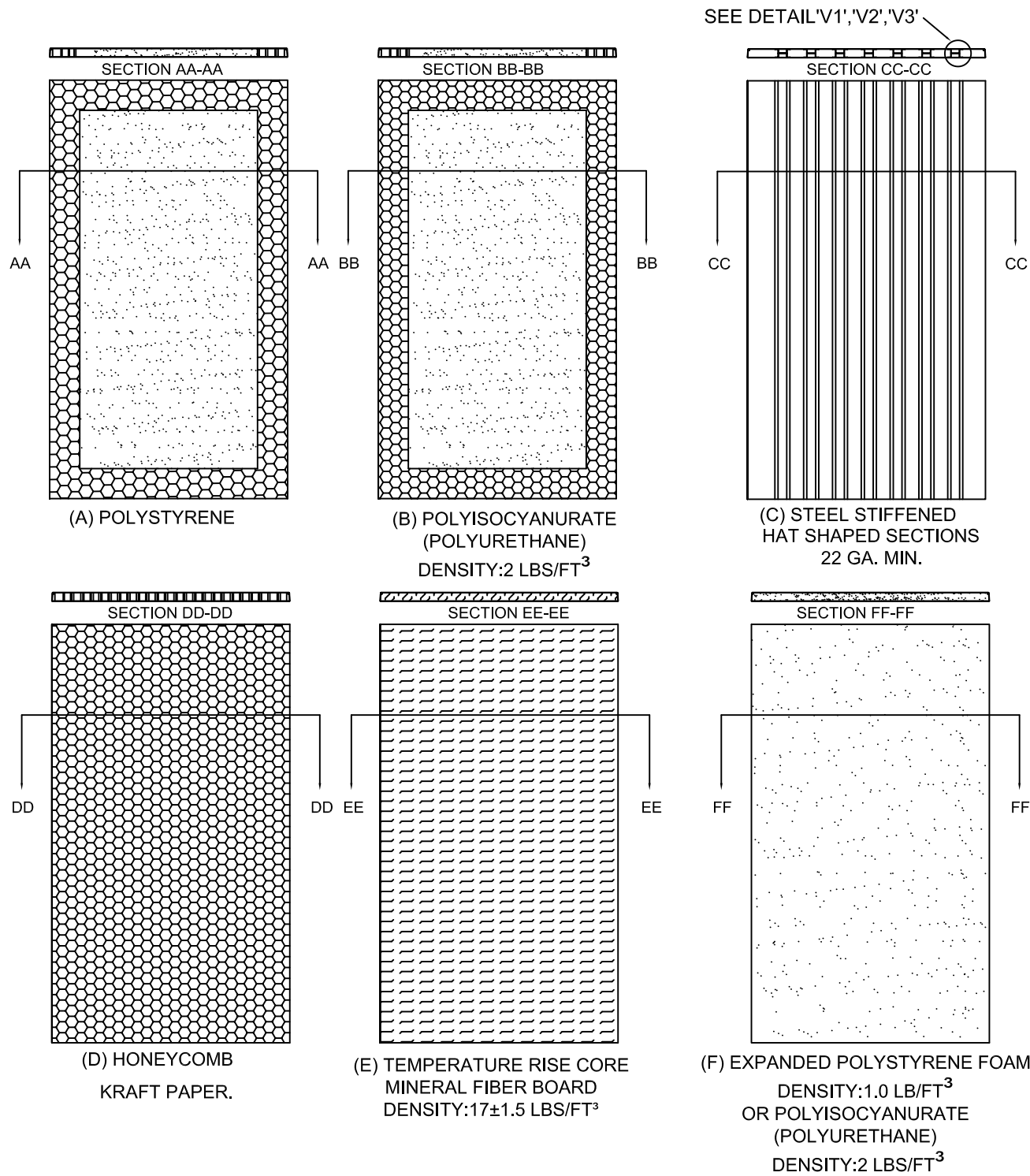
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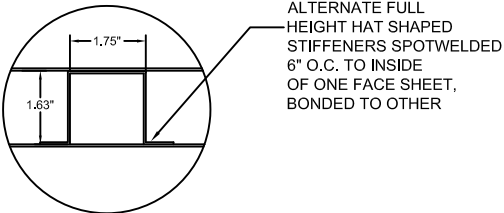
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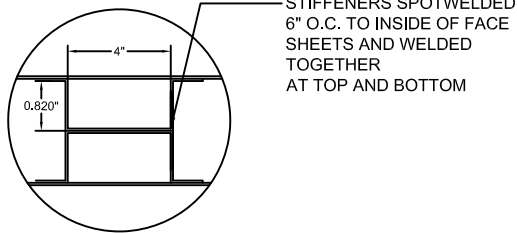
OF 20



DETAIL 'V1'



DETAIL 'V2'



DETAIL 'V3'



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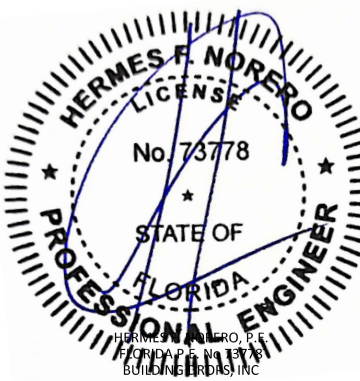
CORE OPTIONS

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1900 NE MIAMI COURT, STE. 2-15
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FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

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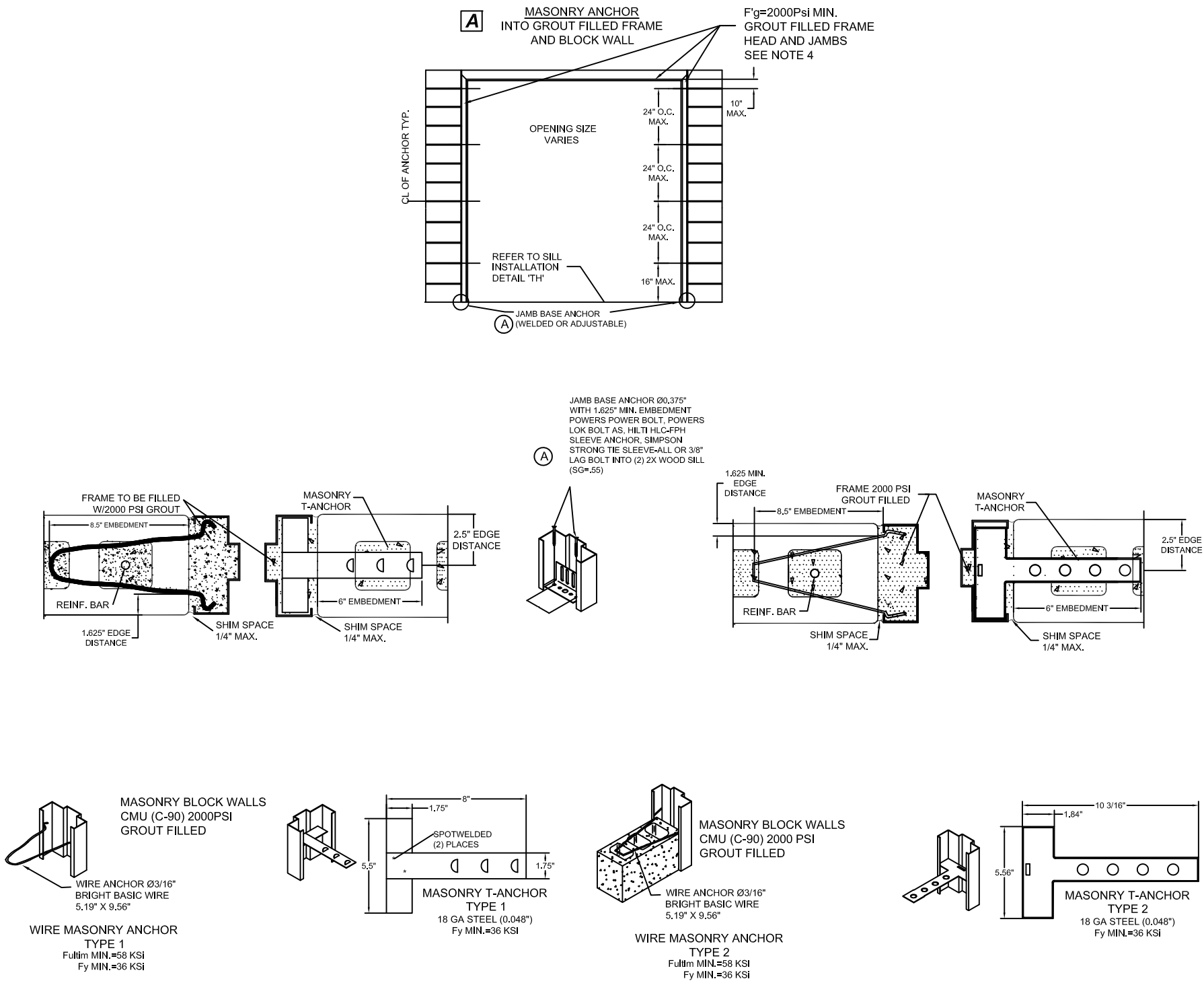
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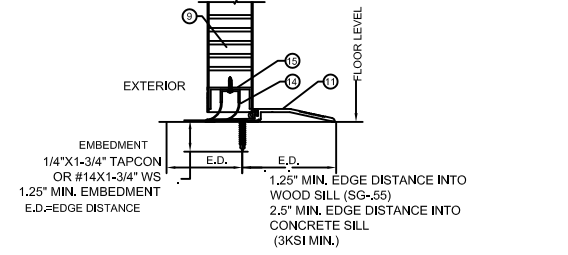
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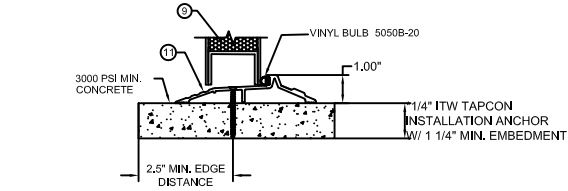
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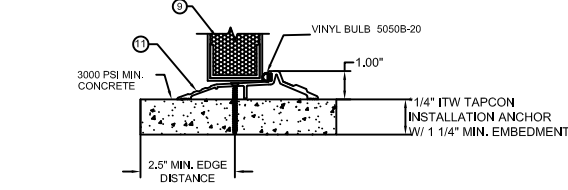
NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55. STEEL MIN. 18 GA. Fy=33KSI
2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4\"/>



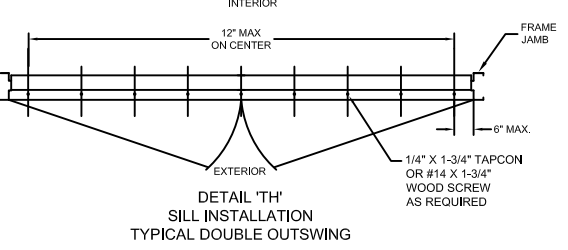
TYPE 1 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



TYPE 2 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



TYPE 2 THRESHOLD DETAIL (SILL) WITH FLUSH BOTTOM RAIL
*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 FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

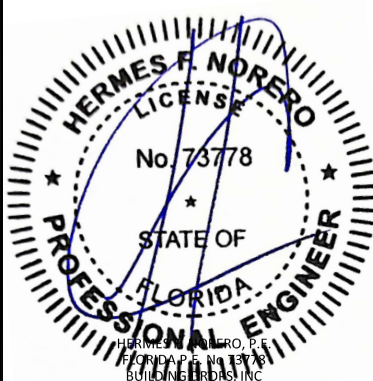
3-SIDED FRAME ANCHORS - WIRE MASONRY
JAMB ANCHOR INTO GROUT FILLED FRAME
AND GROUT FILLED BLOCK WALL

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



REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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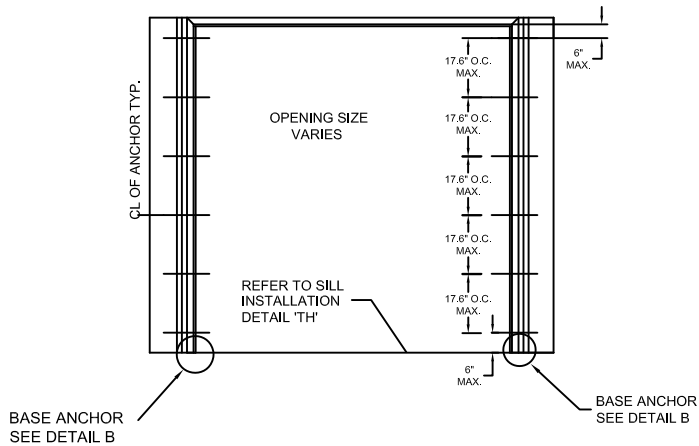
HERMES F. NORERO, P.E.
FLORIDA PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:		FL16740	
DATE:		09.20.2024	
DWG. BY:	JA	CHK. BY:	HN
SCALE:		NTS	
DWG. #:		FMADF	
SHEET:			

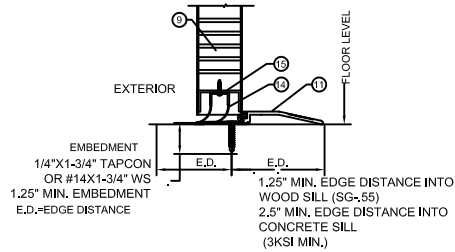
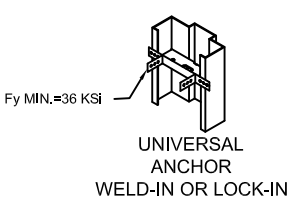
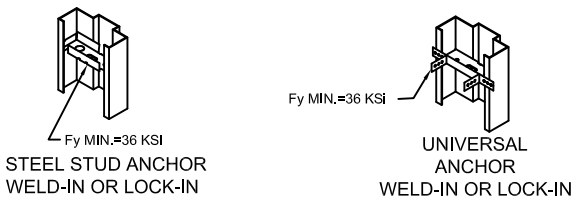
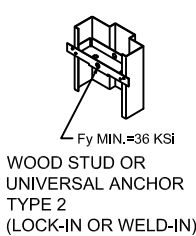
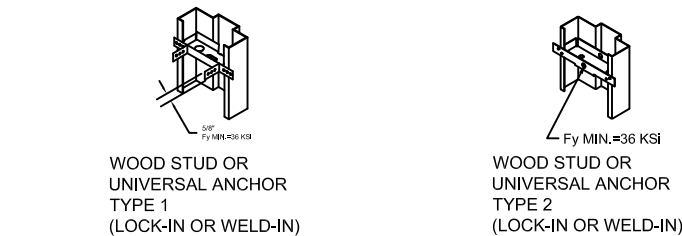
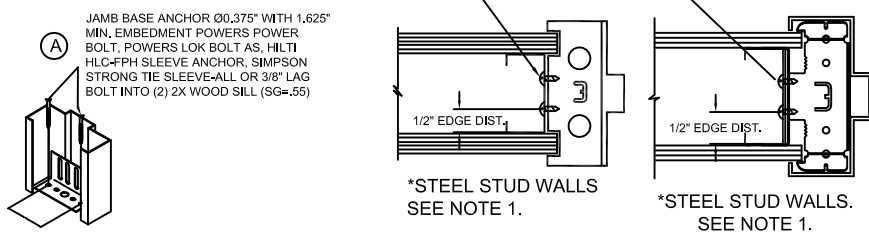
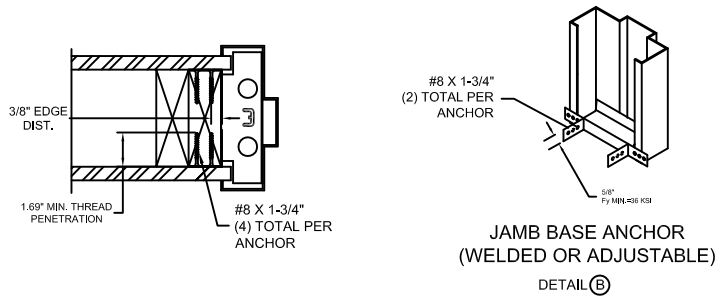
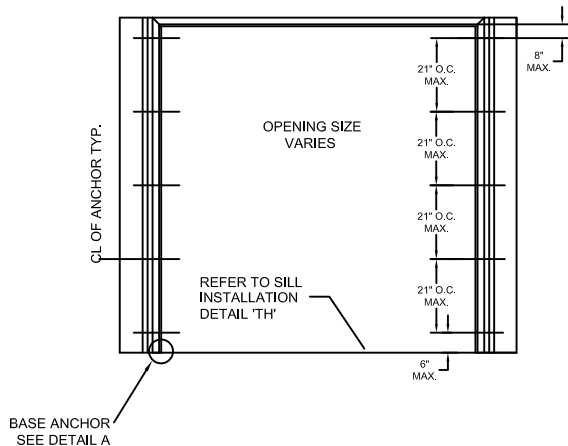
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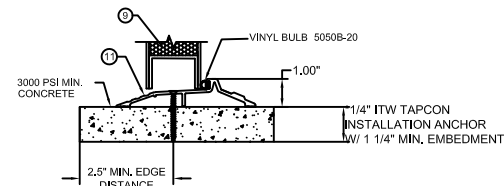
B WOOD STUD ANCHOR



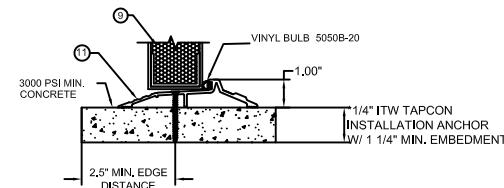
C STEEL STUD ANCHOR



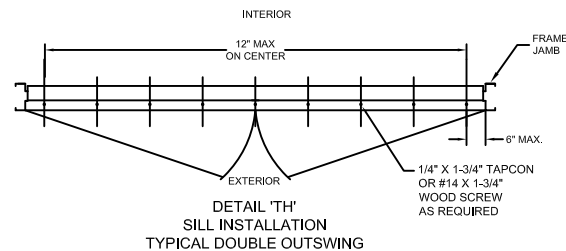
TYPE 1 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



TYPE 2 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL



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



NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55. STEEL MIN. 18 GA. Fy=33KSI
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. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD CAN BE USED WITH ALL WALL TYPES.



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3-SIDED FRAME ANCHORS - WOOD STUD
JAMB ANCHOR & STEEL STUD JAMB
ANCHOR

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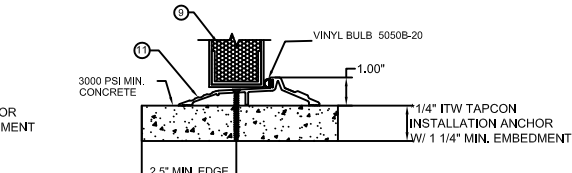
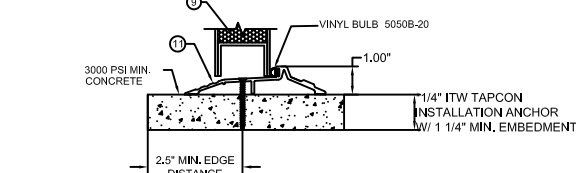
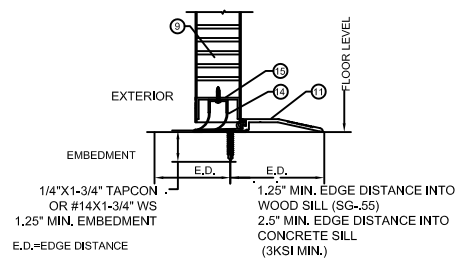
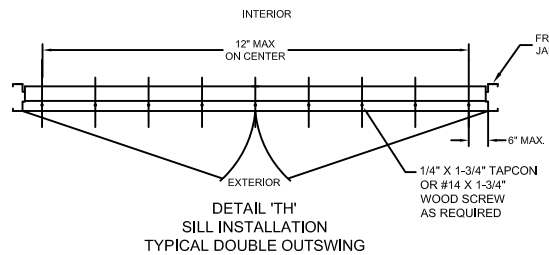
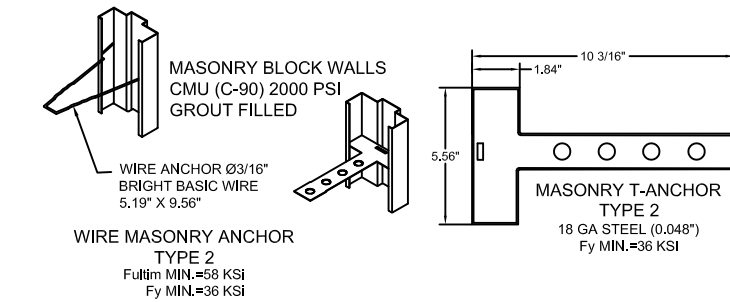
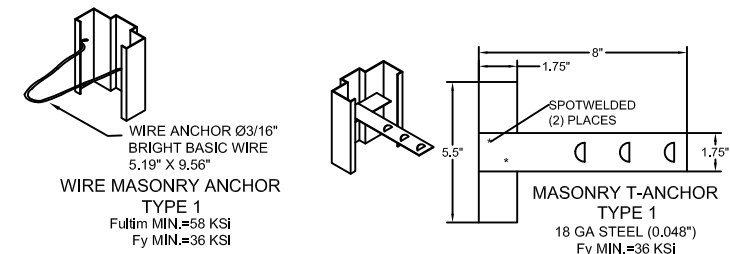
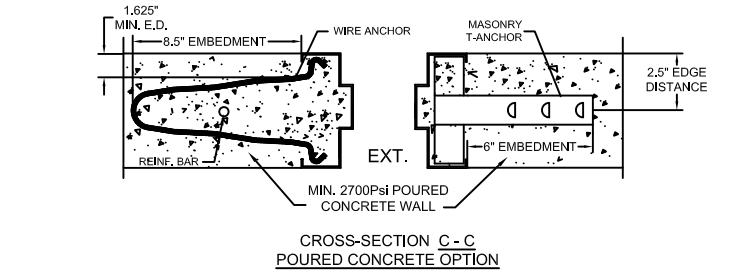
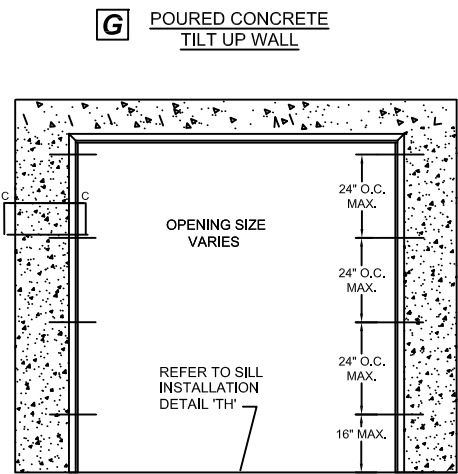
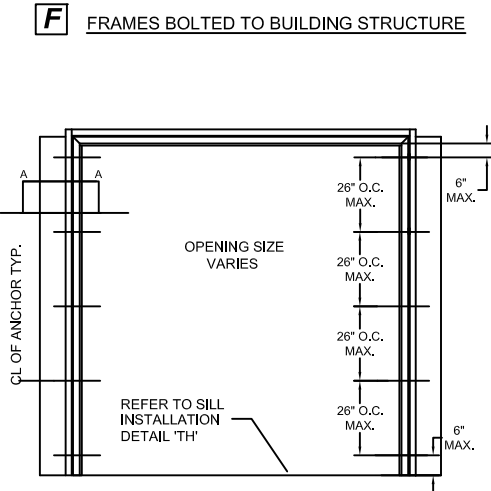
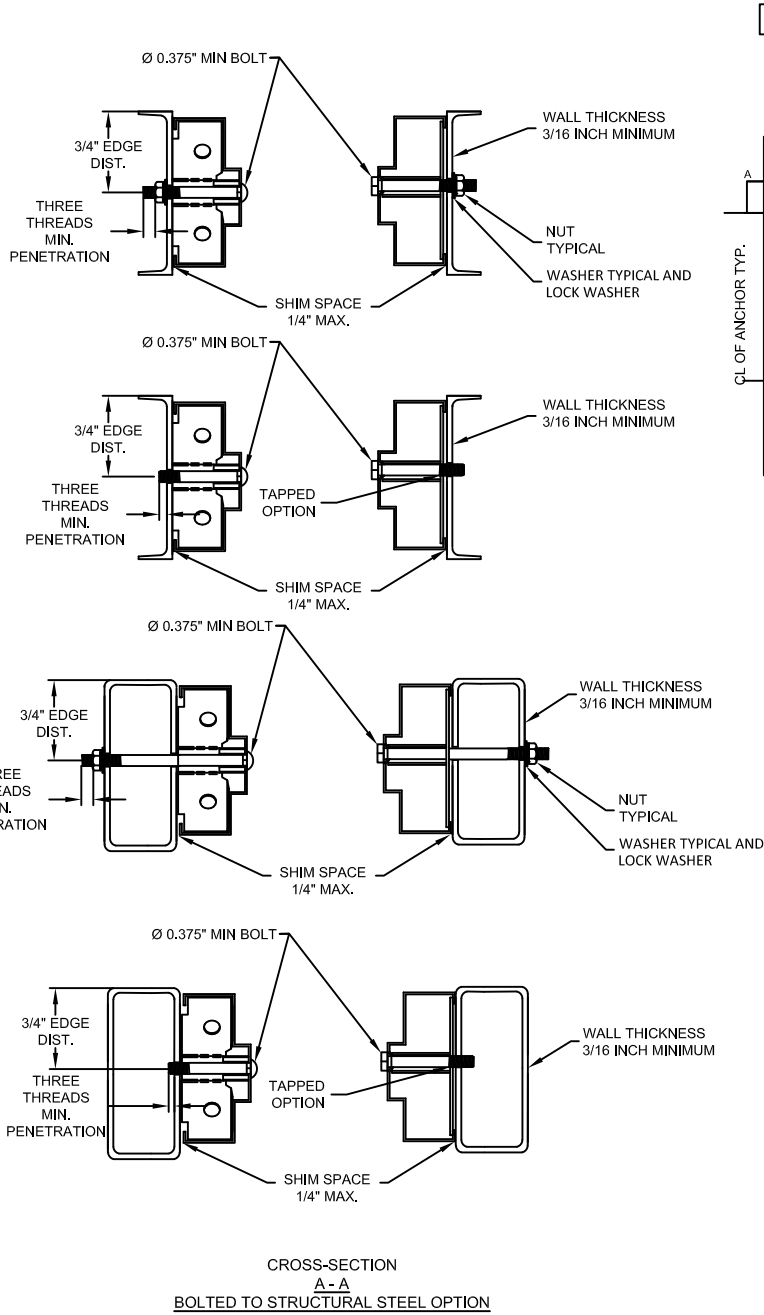


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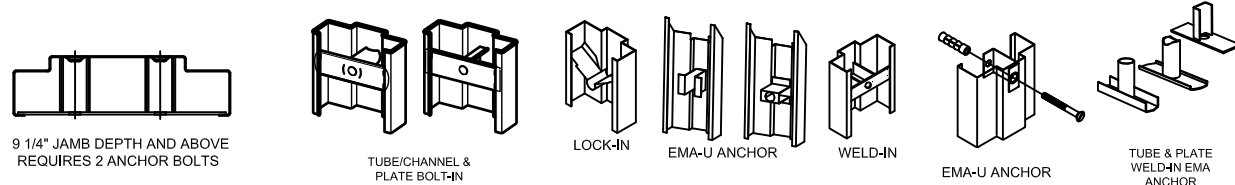


FL #:	FL16740
DATE:	09.20.2024
DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	FMADF
SHEET:	8



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

NOTES:
1. STRUCTURAL MEMBERS MUST BE DESIGNED TO CARRY APPROPRIATE LOAD, 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. BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
4. APPLY CAULK AS NEEDED.
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL JAMB ANCHOR OPTIONS.




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

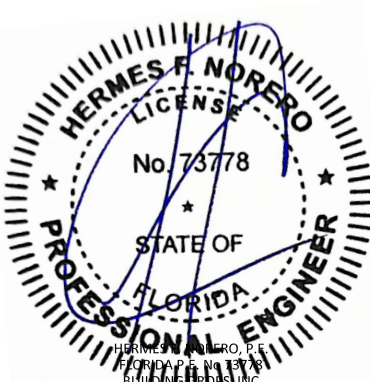
TITLE: OUTSWING DOUBLE FLUSH WITH FALCON MA SERIES MORTISE LOCK (HVHZ)(IMPACT)

GENERAL NOTES & DESIGN PRESSURE TABLE

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

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BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL16740**

DATE: **09.20.2024**

DWG. BY: **JA** CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **FMADF**

SHEET: **10** OF 20



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

TITLE:OUTSWING DOUBLE FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

4-SIDED FRAME ANCHORS - WIRE MASONRY
JAMB ANCHOR INTO GROUT FILLED FRAME
AND GROUT FILLED BLOCK WALL

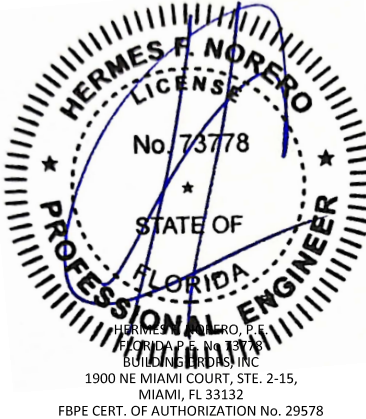
PREPARED BY:

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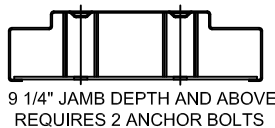
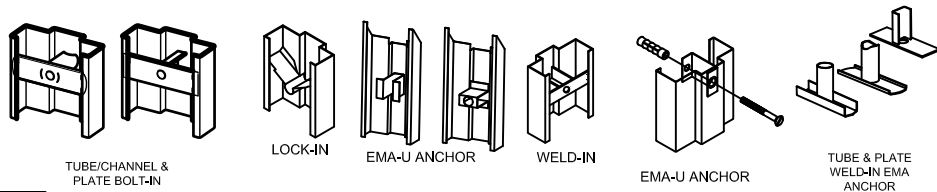
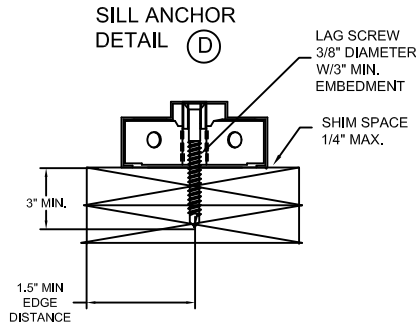
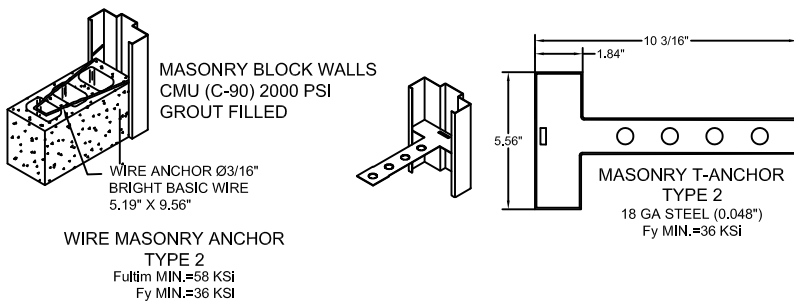
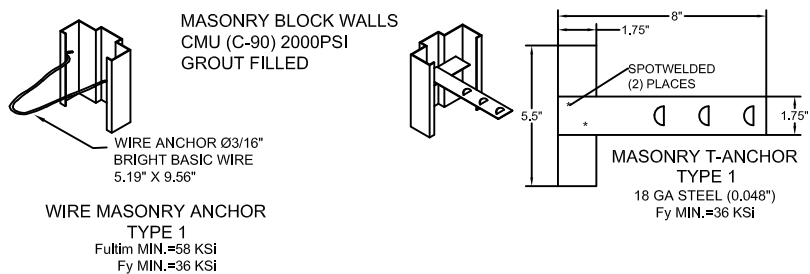
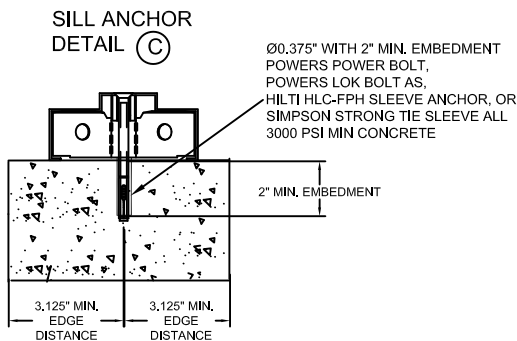
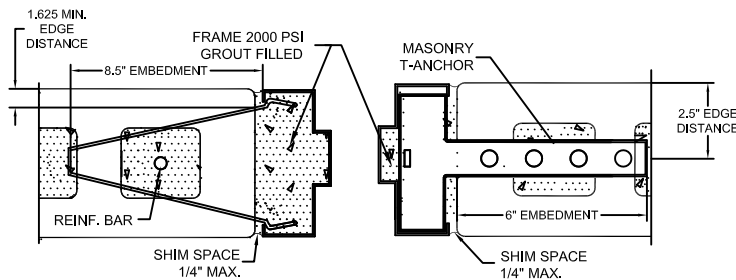
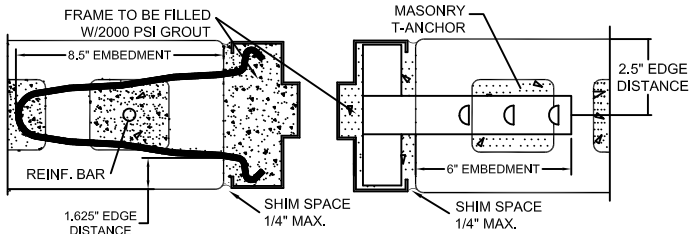
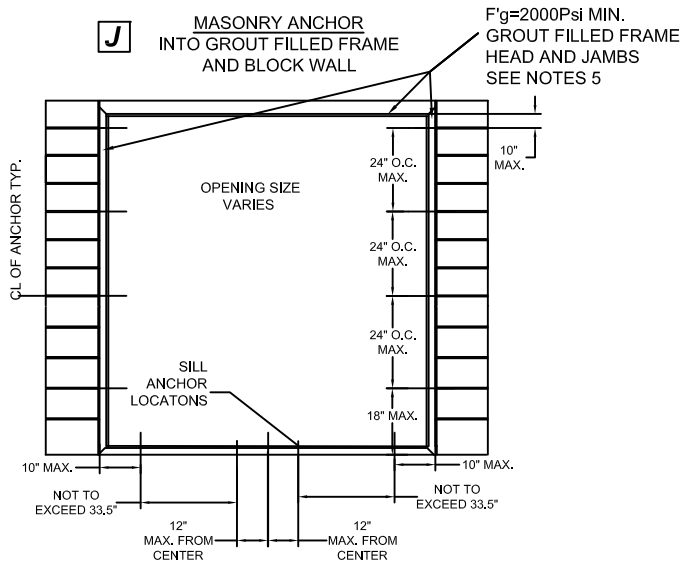
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DWG. #: FMADF

SHEET:

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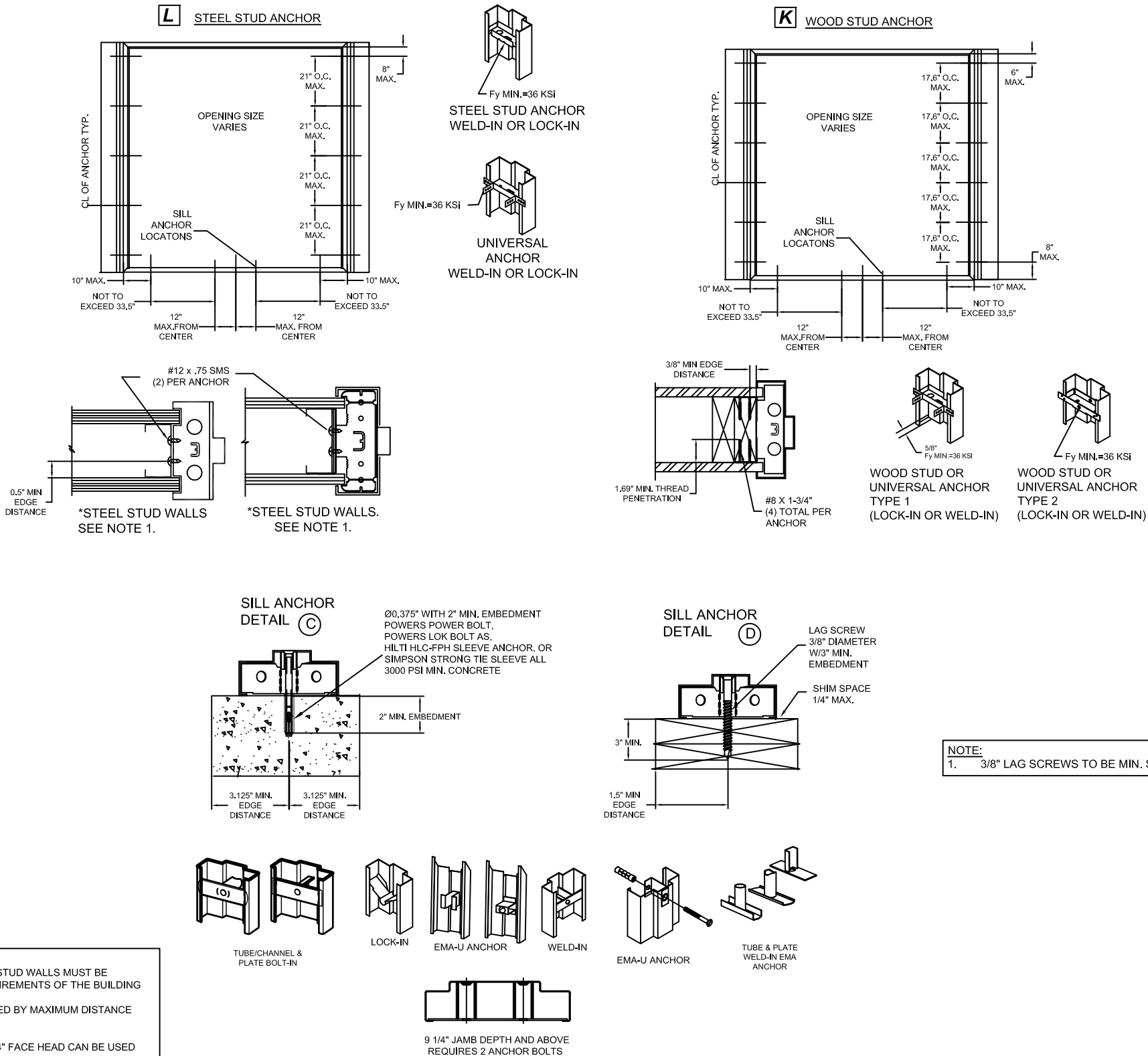
OF 20



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 THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55, STEEL MIN. 18 GA. Fy=33KSI
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3. APPLY CAULK AS NEEDED.
4. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD CAN BE USED WITH ALL WALL TYPES.

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TITLE:OUTSWING DOUBLE FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)
4-SIDED FRAME ANCHORS - WOOD
STUD JAMB ANCHOR & STEEL STUD
JAMB ANCHOR

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
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FL #:

FL16740

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DWG. BY: JA
CHK. BY: HN

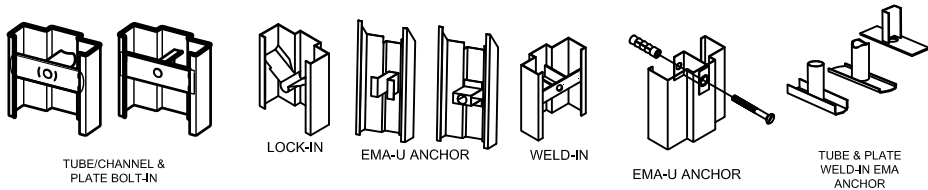
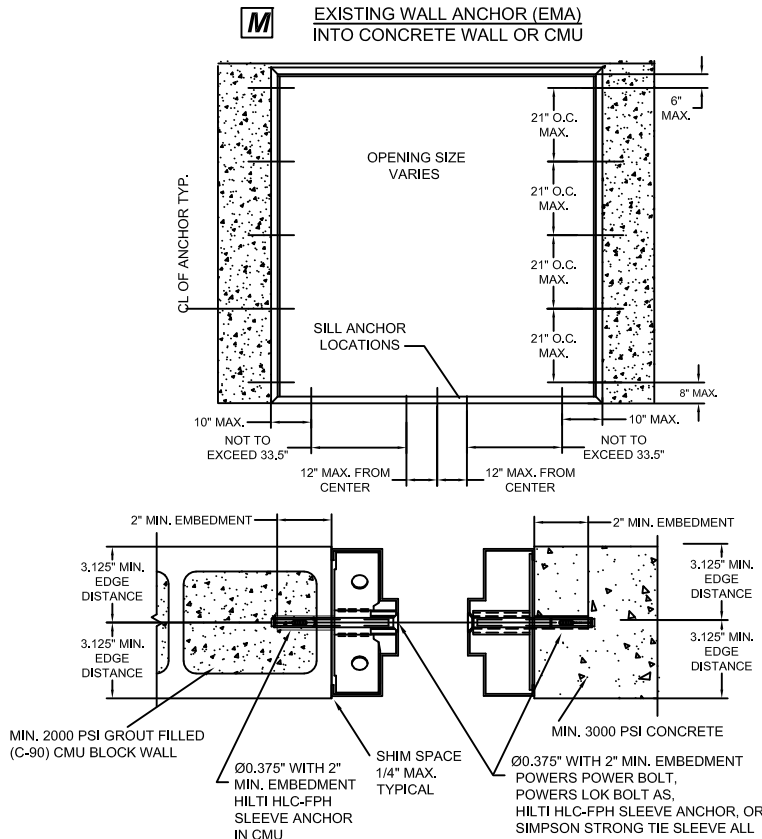
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DWG. #: FMADF

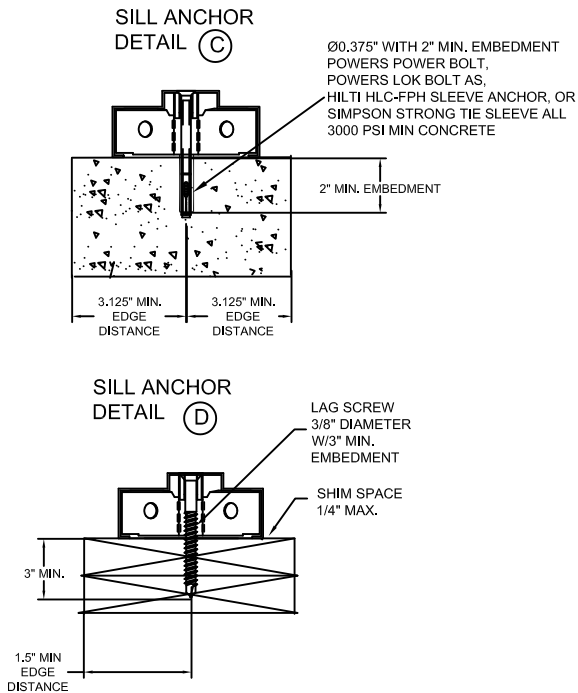
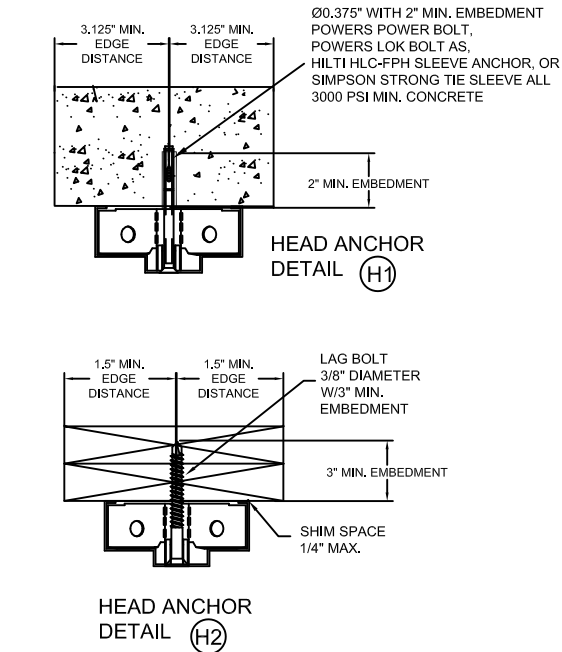
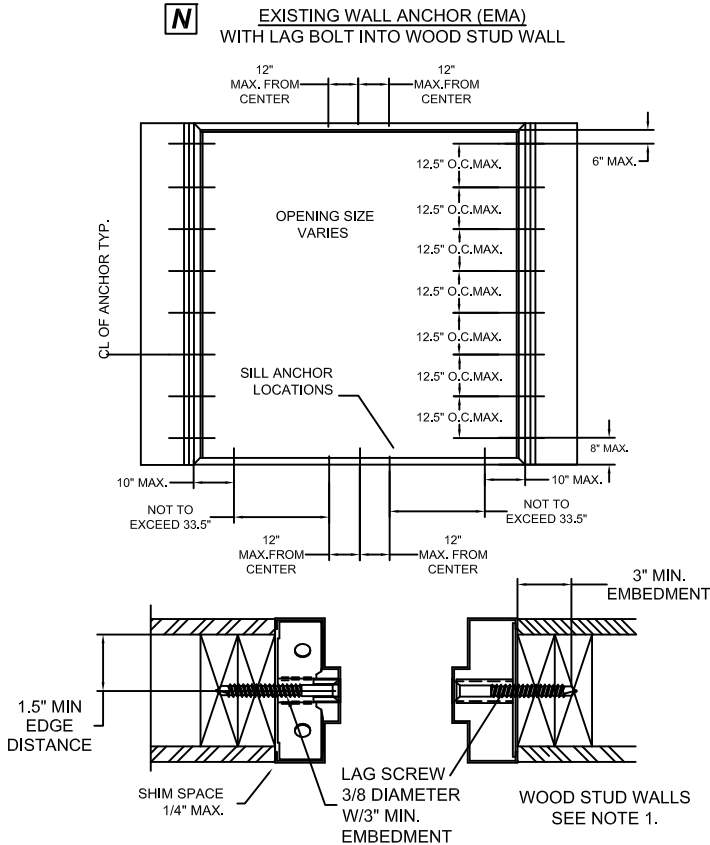
SHEET:

12

NOTES:
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3. APPLY CAULK AS NEEDED.
4. FRAMES WITH FRAME HEAD GROUTED FULL DO NOT REQUIRE ANCHORS TO BE INSTALLED IN THE HEAD
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL WALL TYPES
6. HEAD ANCHORS TO SUIT SUBSTRATE, TYPE MAY VARY FROM JAMB ANCHOR



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



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4-SIDED FRAME ANCHORS - EXISTING WALL
JAMB ANCHOR W/ LAG SCREW INTO WOOD
STUD WALL & INTO CONCRETE WALL OR CMU

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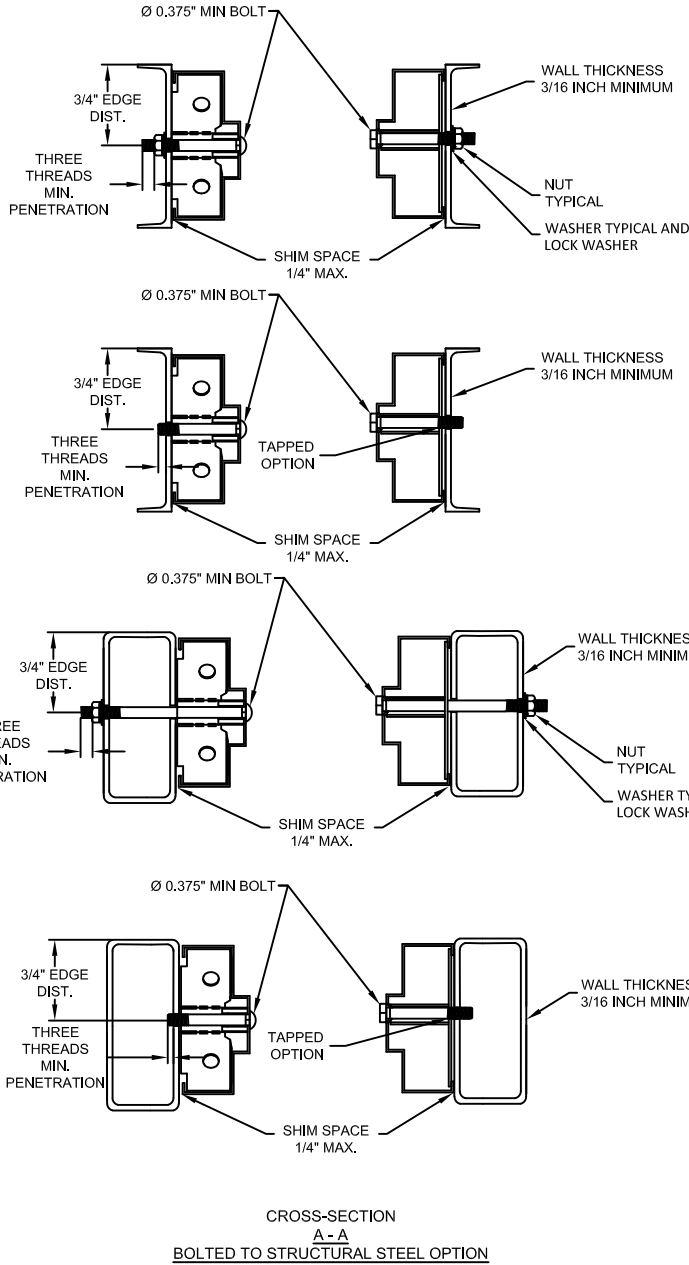


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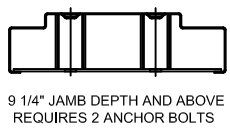
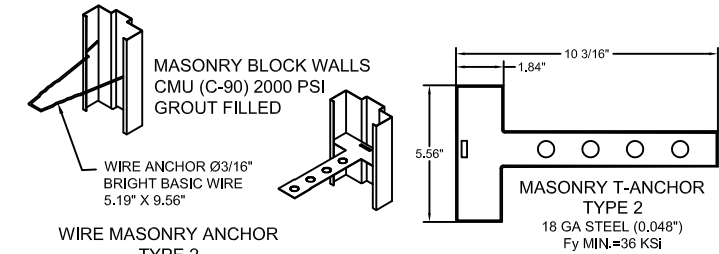
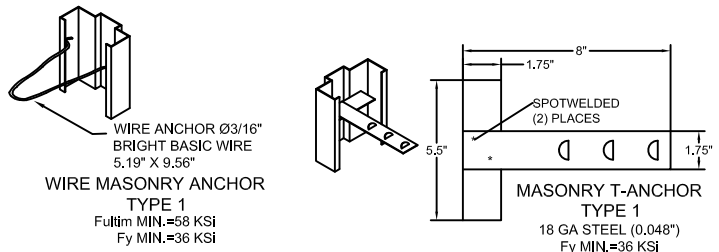
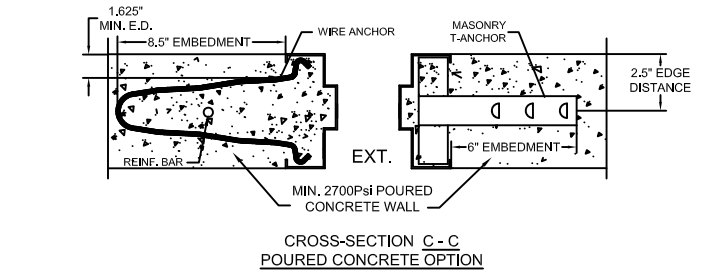
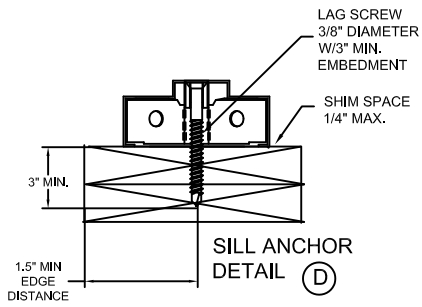
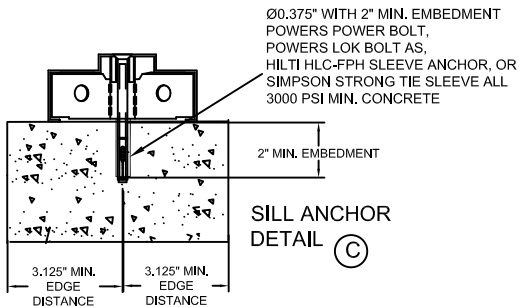
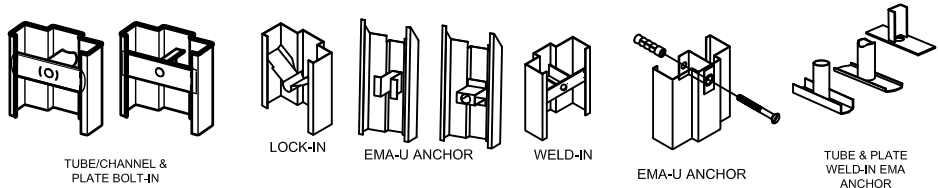
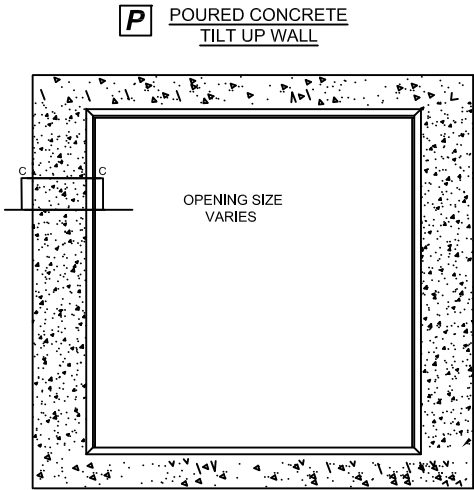
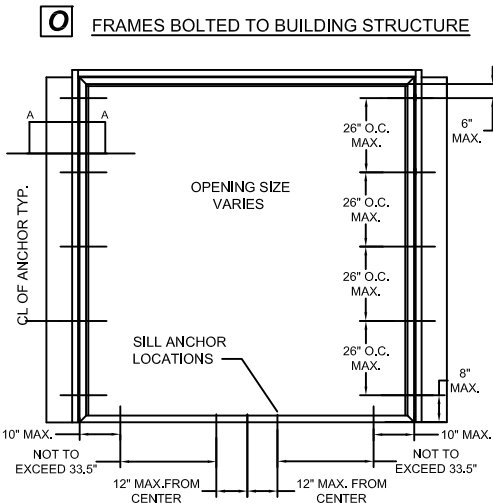


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DWG. BY:	JA
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SCALE:	NTS
DWG. #:	FMADF
SHEET:	13



NOTE:
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6. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL WALL TYPES.



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

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

TITLE:OUTSWING DOUBLE FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

4-SIDED FRAME ANCHORS - FRAMES BOLTED TO
BUILDING STRUCTURE & POURED CONCRETE TILT
WALL CONSTRUCTION

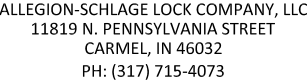
PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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HERMES F. NORERO, P.E.
FLORIDA PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:	FL16740
DATE:	09.20.2024
DWG. BY:	JA
CHK. BY:	HN
SCALE:	NTS
DWG. #:	FMADF
SHEET:	14

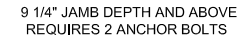


TITLE:OUTSWING DOUBLE FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

ANCHORS - FRAMES WELDED TO STEEL STRUCTURE BUILDING

PREPARED BY:

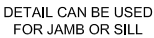
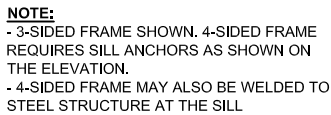
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9 1/4" JAMB DEPTH AND ABOVE
REQUIRES 2 ANCHOR BOLTS



TUBE/CHANNEL &
PLATE BOLT-IN

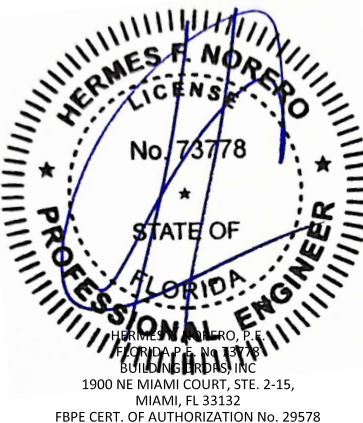


NOTES:

1. STRUCTURAL MEMBERS MUST BE DESIGNED TO CARRY APPROPRIATE LOAD, 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. BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
4. APPLY CAULK AS NEEDED.
5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL JAMB ANCHOR OPTIONS.

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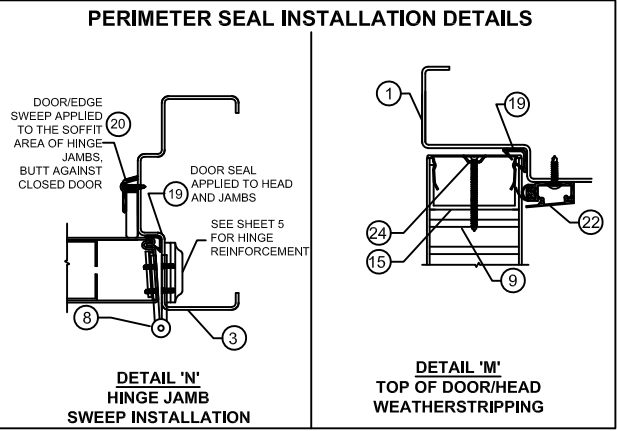
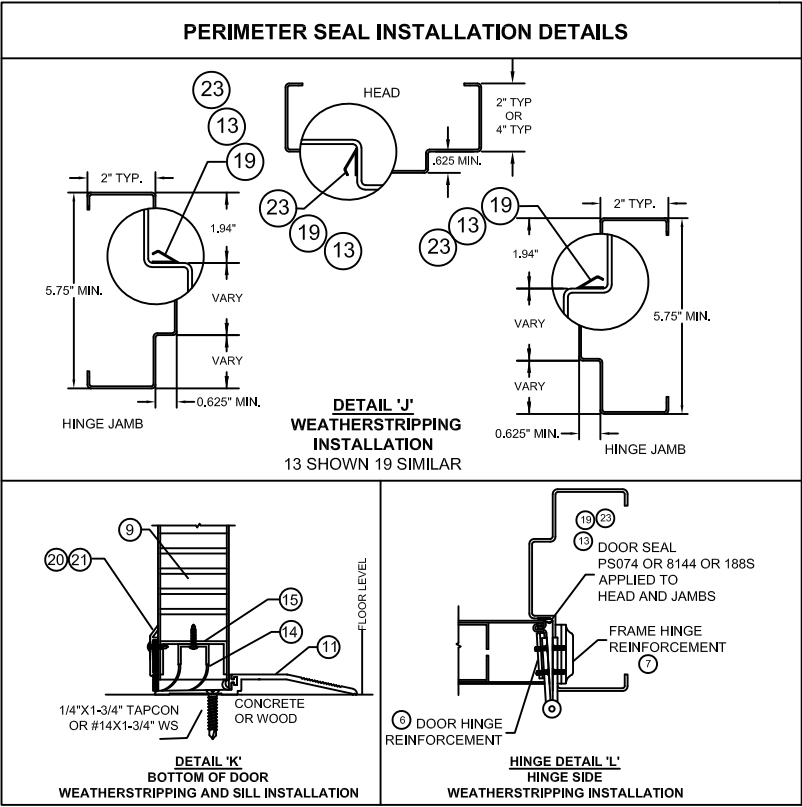
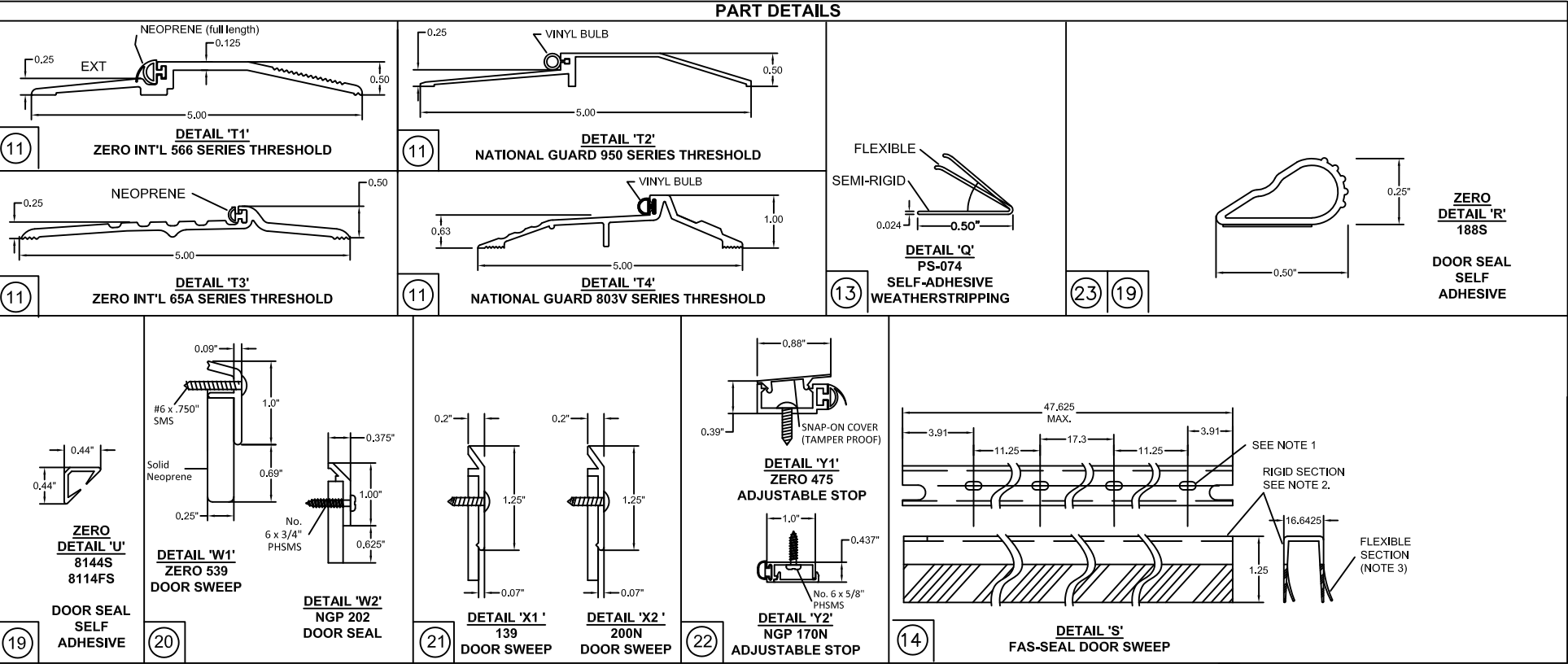
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TABLE 2.

MINIMUM PERIMETER SEAL OPTIONS				
ITEM NUMBER SHT 2. TABLE 1	DESCRIPTION	MODEL No./ MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
11	THRESHOLD	566/ZERO INT'L	'T1'	'K'
		950/NGP	'T2'	
		65A ZERO INT'L	'T3'	
		803V NGP	'T4'	
14	FAS-SEAL SWEEP	REPUBLIC	'S'	'K'
19, 13 OR 23	SELF ADHESIVE DOOR SEAL	8144S, 8144FS/ZERO INT'L	'U'	'J', 'L', 'M' & 'N'
		PS074/REPUBLIC	'Q'	
		188S / ZERO INT'L	'R'	

TABLE 3.

OPTIONAL PERIMETER SEALS				
ITEM NUMBER SHT. 2 TABLE 1	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
20 OR 21	DOOR SWEEP	539/ZERO INT'L	'W1'	'K'
		202N/NGP	'W2'	
		139/ZERO INT'L	'X1'	
		200N/NGP	'X2'	
20	DOOR SWEEP APPLIED TO JAMBS	539/ZERO INT'L	'W1'	'N'
		202N/NGP	'W2'	
22	ADJUSTABLE STOP	475/ZERO INT'L	'Y1'	'M'
		170N/NGP	'Y2'	



- 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 (14), DOOR SEAL (13, 19A, 19B, 19C, 19D, 19E) AND THRESHOLD (11A, 11B, 11C) AS APPLICABLE.
 5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH CAULK
 6. INSTALL THRESHOLD INTO BEAD OF CAULK FULL LENGTH OF SILL
 7. REPUBLIC INSTALLATIONS REQUIRE DOOR SEAL (13, 19A, 19B, 19C, 19D, 19E) AND THRESHOLD (11A, 11B, 11C) AS APPLICABLE.
 8. REPUBLIC DOORS HAVE FLUSH TOP DOOR CHANNEL - TOP CAP NOT APPLICABLE



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TITLE:OUTSWING DOUBLE FLUSH WITH
FALCON MA SERIES MORTISE LOCK
(HVHZ)(IMPACT)

GASKETING DETAILS - PERIMETER SEAL

PREPARED BY:

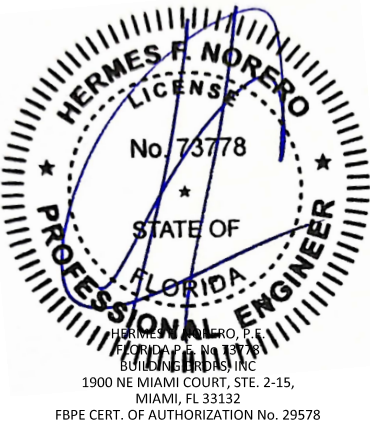
BUILDING DROPS, INC.

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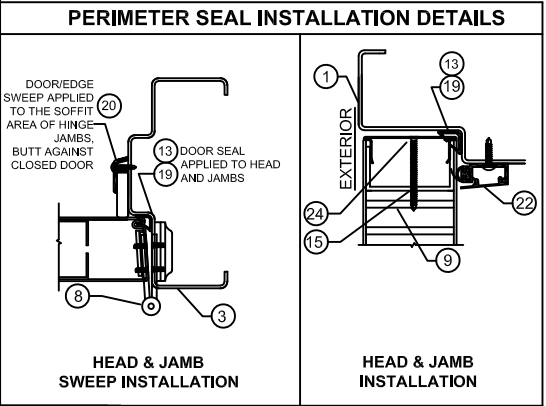
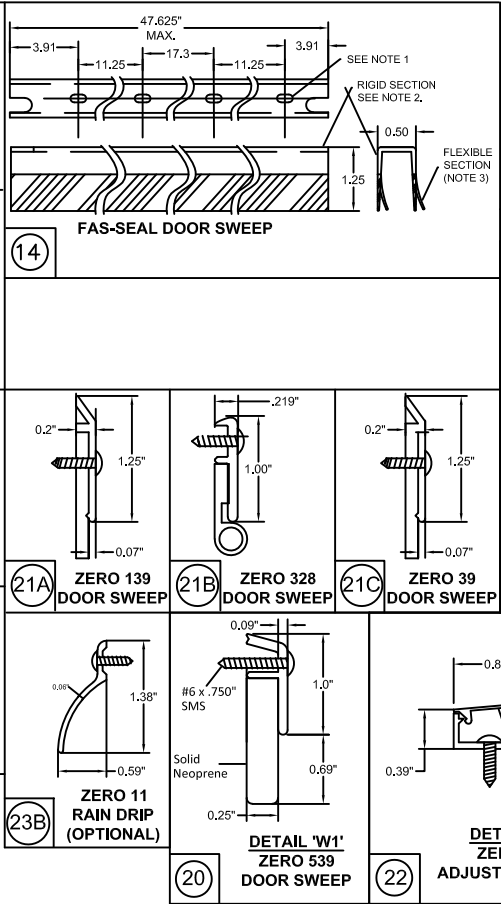
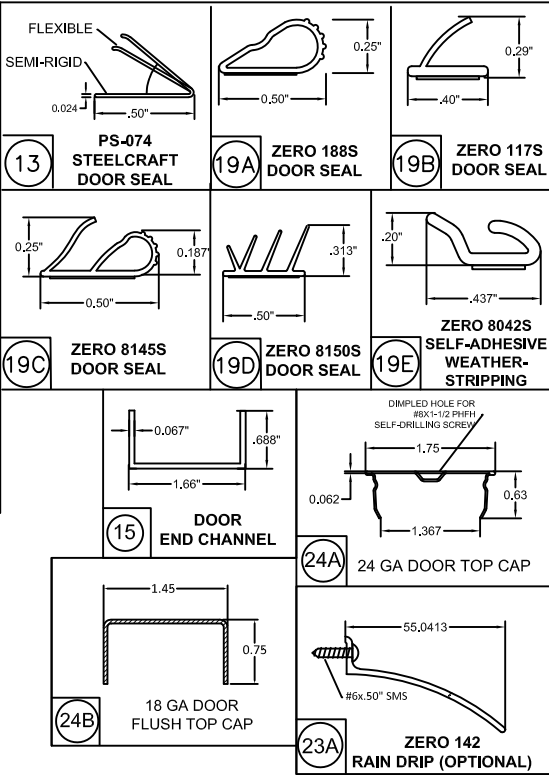
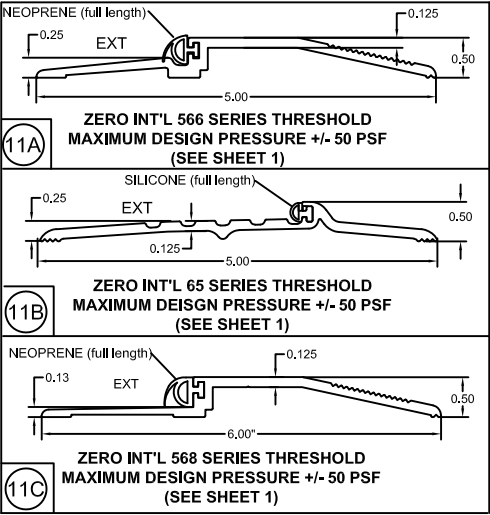
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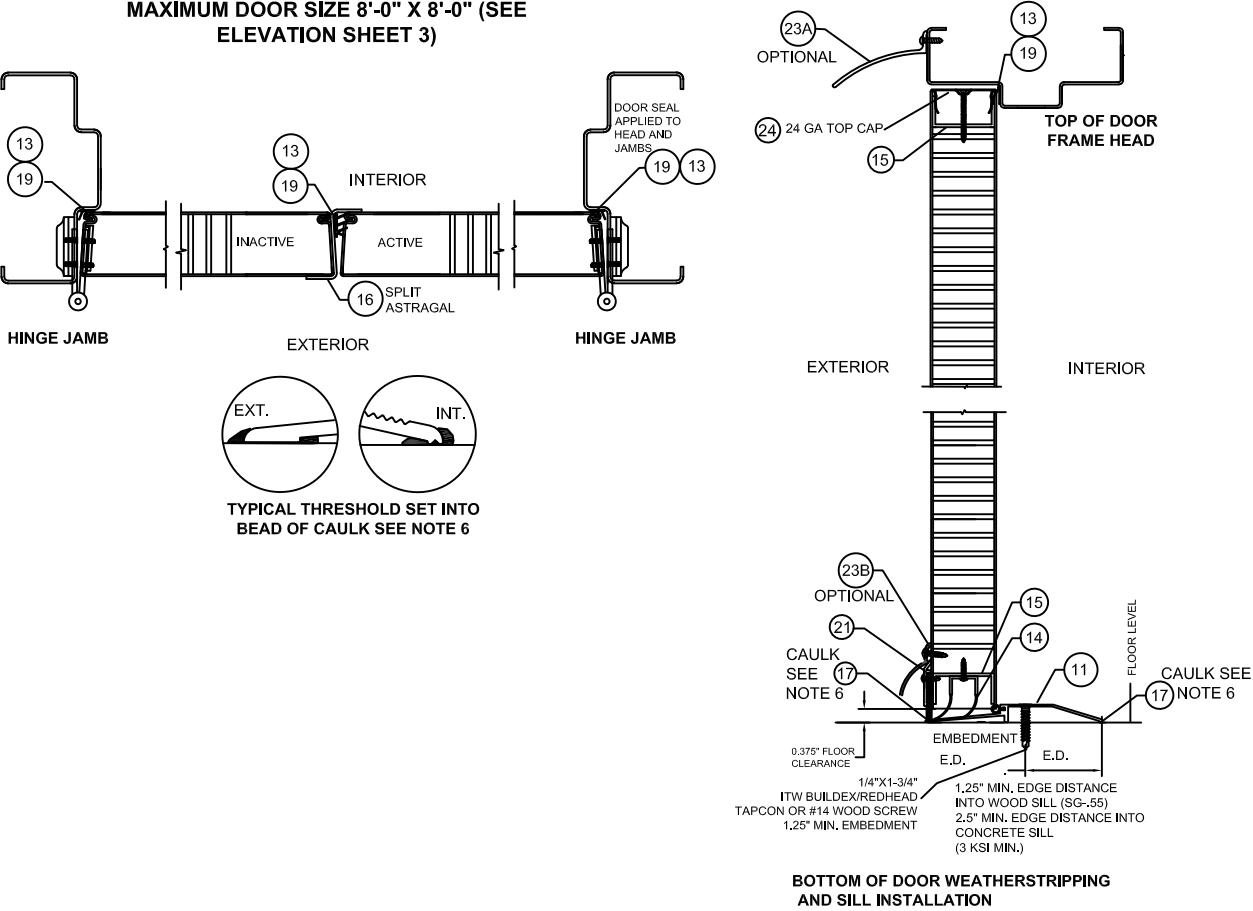
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OF 20

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	PS074 DOOR SEAL		STEELCRAFT
14	FAS-SEAL SWEEP		STEELCRAFT
15	END CHANNEL		STEELCRAFT
19	19A	188S DOOR SEAL	ZERO INT'L
	19B	117S DOOR SEAL	ZERO INT'L
	19C	8145S DOOR SEAL	ZERO INT'L
	19D	8150S DOOR SEAL	ZERO INT'L
	19E	8042S DOOR SEAL	ZERO INT'L
20	539 DOOR SWEEP		ZERO INT'L
21A	139 DOOR SWEEP		ZERO INT'L
21B	328 DOOR SWEEP		ZERO INT'L
21C	39 DOOR SWEEP		ZERO INT'L
22	475 ADJUSTABLE STOP		ZERO INT'L
23A	142 RAIN DRIP		ZERO INT'L
23B	11 RAIN DRIP		ZERO INT'L
24A	OPTIONAL TOP CAP		STEELCRAFT
24B	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 50 PSF -
MAXIMUM DOOR SIZE 8'-0" X 8'-0" (SEE
ELEVATION SHEET 3)**



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
 2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
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GASKETING DETAILS - PERIMETER SEAL CONT.

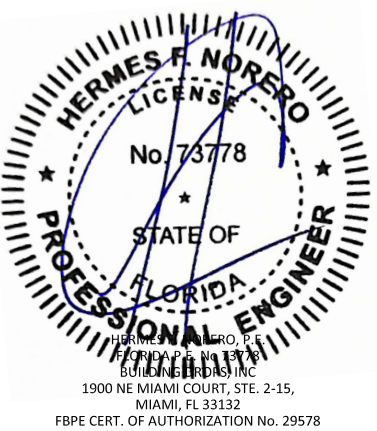
PREPARED BY:

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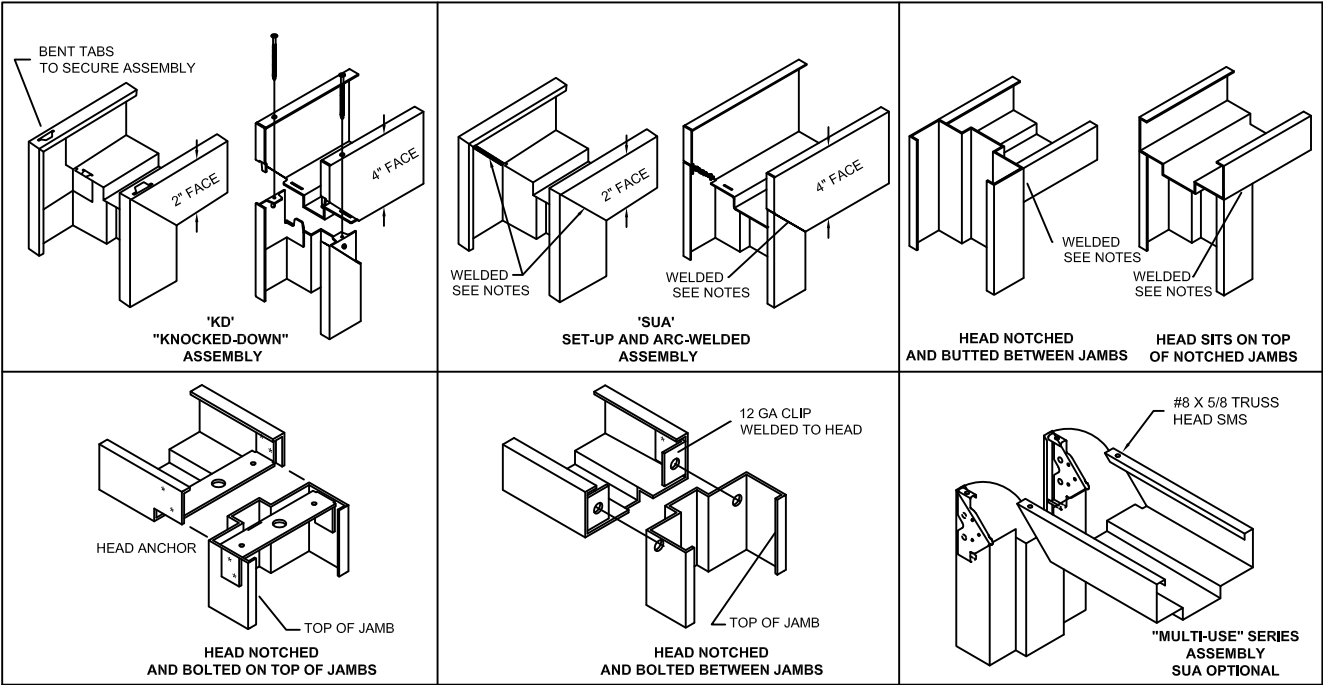
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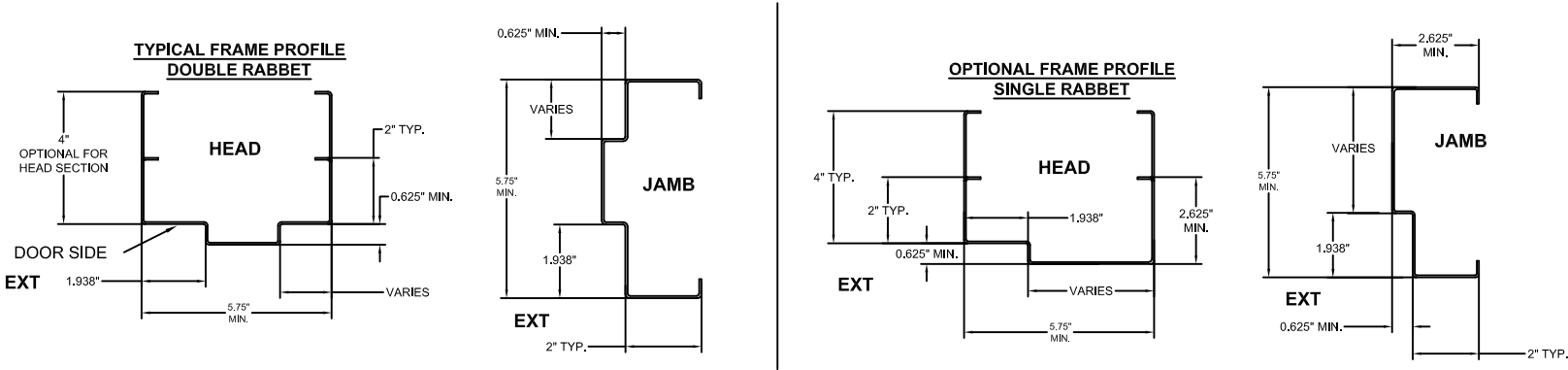
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WELDING NOTES:
1. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM, GRIND SMOOTH AND PRIME PAINT. WELD CLASSIFICATION - E70XX



AVAILABLE DOOR PANEL CONFIGURATIONS

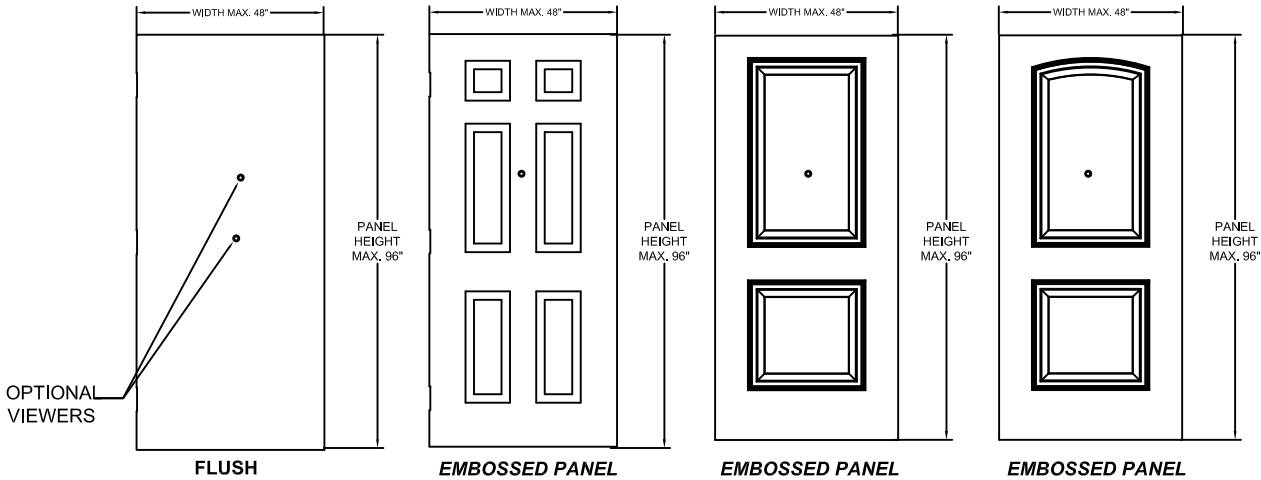


TABLE 5. AVAILABLE STEELCRAFT H-SERIES DOOR CONFIGURATIONS

STEELCRAFT H-SERIES DOOR CORE MATERIAL PER SHT. 5	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	8'-0"	8'-0"	CRS GALV	16/.053" 14/.067"

TABLE 6. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM 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 7. STEEL MECHANICAL PROPERTIES

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



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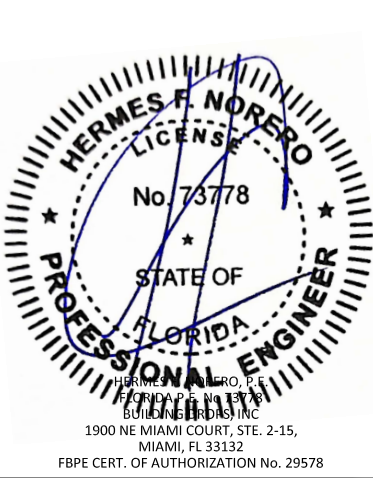
TITLE:OUTSWING DOUBLE FLUSH WITH FALCON MA SERIES MORTISE LOCK (HVHZ)(IMPACT)

GENERAL NOTES & DESIGN PRESSURE TABLE

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MIAMI, FL 33132
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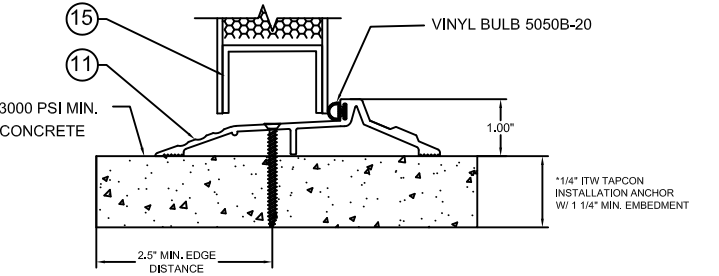
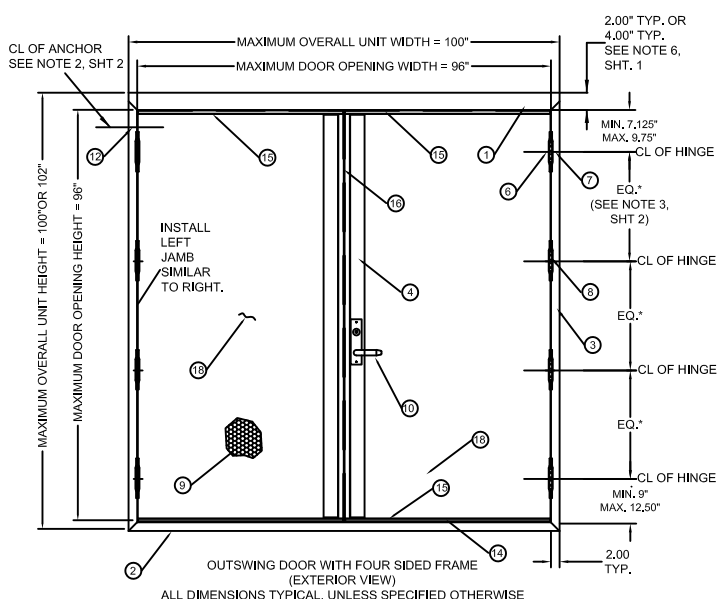
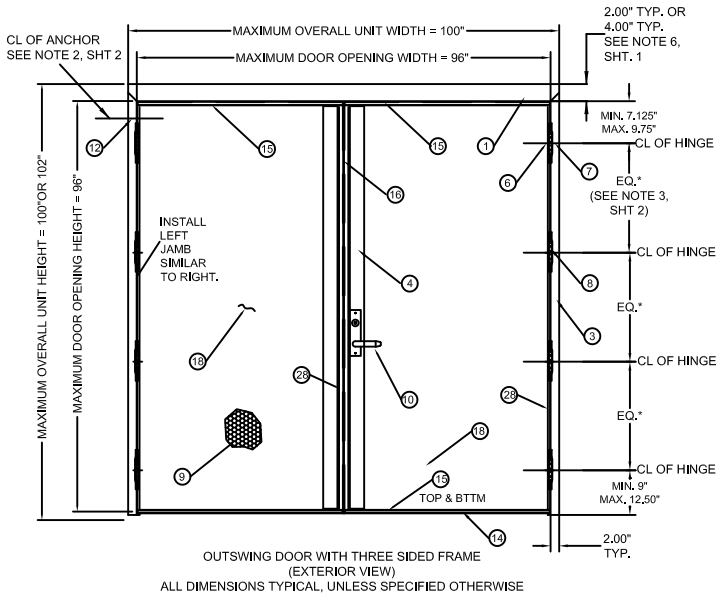
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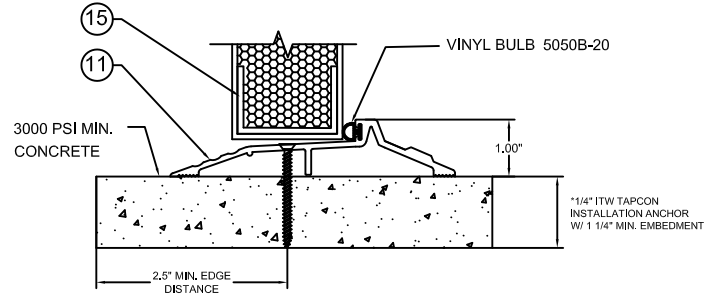
SCALE: NTS

DWG. #: FMADF

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OPTIONAL THRESHOLD DETAIL (SILL) WITH
INVERTED BOTTOM RAIL



OPTIONAL THRESHOLD DETAIL (SILL) WITH
FLUSH BOTTOM RAIL

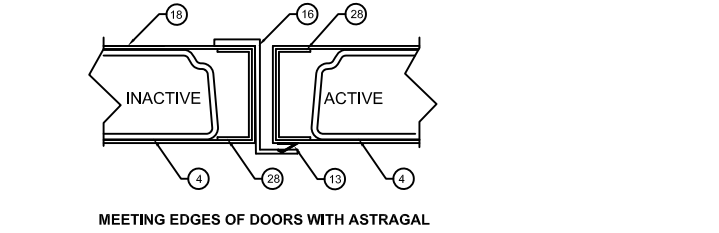
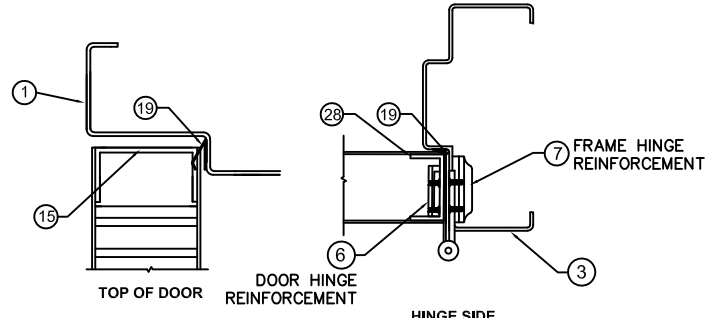
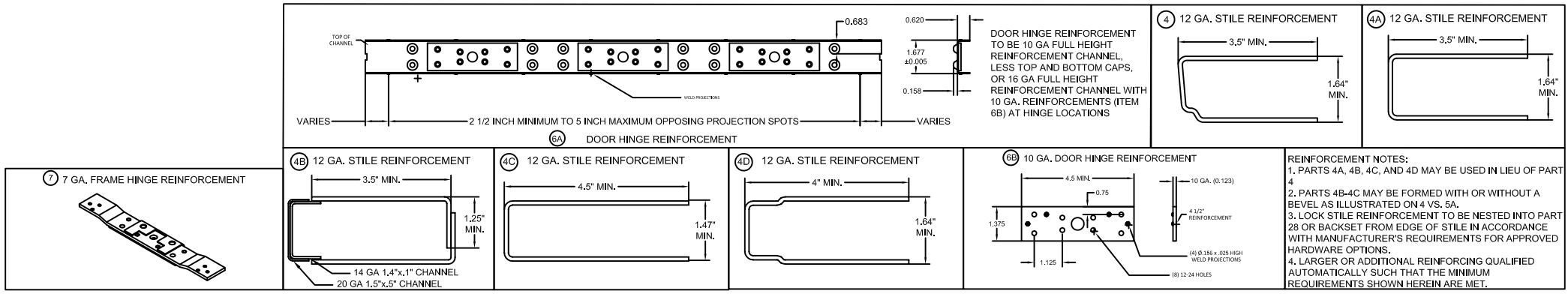


TABLE 8 (SEE TABLE 1, SHEET 2 FOR OPTION 1 CONFIGURATION)

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD (SEE SHT. 20)	.053" MIN. STL.	MAX. 100"
2	1	SILL JAMB (SEE SHT. 20)	.053" MIN. STL.	MAX. 100" HEIGHT.
3	2	HINGE JAMB (SEE SHT. 20)	.053" MIN. STL.	MAX. 102" HEIGHT.
4	2	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL.	3.5 X 93.44 MAX.
6	NOTE 3, SHT1	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
6A	NOTE 3, SHT1	HINGE REINFORCEMENT DOOR	.053" MIN. STL.	1.677" X FULL LENGTH - END CHNLS
6B	NOTE 3, SHT1	HINGE REINFORCEMENT DOOR	.123" MIN. STL.	1.375 X 4.5 MIN.
7	1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.50" X 9.19" MIN.
8	NOTE 3, SHT1	4.5" OR 5" MIN. BUTT HINGES (SEE SHT 4.) OPTIONAL CONTINUOUS HINGE (SEE SHT. 4)	.134 MIN. .067" MIN. STL/.11 ALUM	(8) #12-24 MS PER HINGE MAX. 95"
9	2	CORE MATERIAL (SEE SHT. 5): D) HONEYCOMB C) STEEL STIFFENED A/F) POLYSTYRENE B/F) POLYURETHANE/POLYISOCYANURATE E) MINERAL BOARD TEMPERATURE RISE CORE		
10	1	LOCKING HARDWARE- FALCON MA SERIES MORTISE LOCK W/SECTIONAL OR ESCUTCHEON TRIM THRESHOLD SILL W/BUMPER GASKET (SEE SHTS. 18 & 19)	ALUM. 6063 T5	96" MAX.
11	1	1) ZERO 11A-T1)566A, 11B-T3)65A, 11C)568 2) NAT'L GUARD T2)950A, T4)803V	ALUM. 6063 T5	
12	NOTE 2, SHT1	JAMB ANCHOR	SEE SHTS. 7-15	
13	1	PSO74 WEATHER STRIPPING	TPE	MAX. 24"
14	2	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
15	4	END CHANNEL (16 GA-FLUSH OR INVERTED)	.053" MIN. STL.	.62" X 1.66" X 47.66" MAX.
16	1	Z ASTRAGAL	.067" MIN. STL.	MAX. 95.75"
17	AS NEEDED	BUTYL RUBBER, SILICONE OR LATEX W/ SILICONE		
18	2	DOOR SLAB (16 OR 14 GA)	SEE SHT. 20	48" X 96" MAX.
19	1	BY ZERO INT'L SEAL A)188S, B)117S, C)8145S, D)8150S, E)8042S BY NGP DOOR SEAL NO.5020	SILICONE	MAX. 24"
20	2	BY ZERO INT'L DOOR SWEEP NO.539 BY NGP DOOR SEAL NO.202N	TPE	MAX. 96"
21	2	BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39 BY NGP DOOR SEAL NO.200N	SEE SHTS. 18 & 19	MAX. 48"
22	2	BY ZERO INT'L ADJUSTABLE STOP NO.475 BY NGP ADJUSTABLE STOP NO.170N	TPE	MAX. 48"
23	1	BY ZERO INT'L DOOR SEAL NO.188S	SILICONE	MAX. 24"
23A	1	BY ZERO INT'L RAIN DRIP 142	ALUMINUM	MAX. 100"
23B	1	BY ZERO INT'L RAIN DRIP 11	ALUMINUM	MAX. 48"
24				
25	2	IVES SB360 SURFACE BOLT	STEEL	12" MIN. - 24" MAX. LENGHT
26	1	SURFACE BOLT REINFORCEMENT	.067" MIN. STL.	8" MIN. 18" MAX.
27		VIEWER IVES U698/698		
28	4	EDGE CHANNEL (16 GAUGE MIN)	.053" MIN. STL.	1.31" X 8.38." MIN.
29				
30	1	ASA STRIKE		



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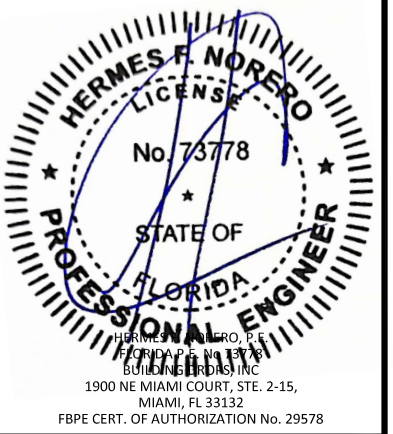
REPUBLIC DOORS: GLASS DOUBLE DOORS
OUTSWING CONFIGURATIONS

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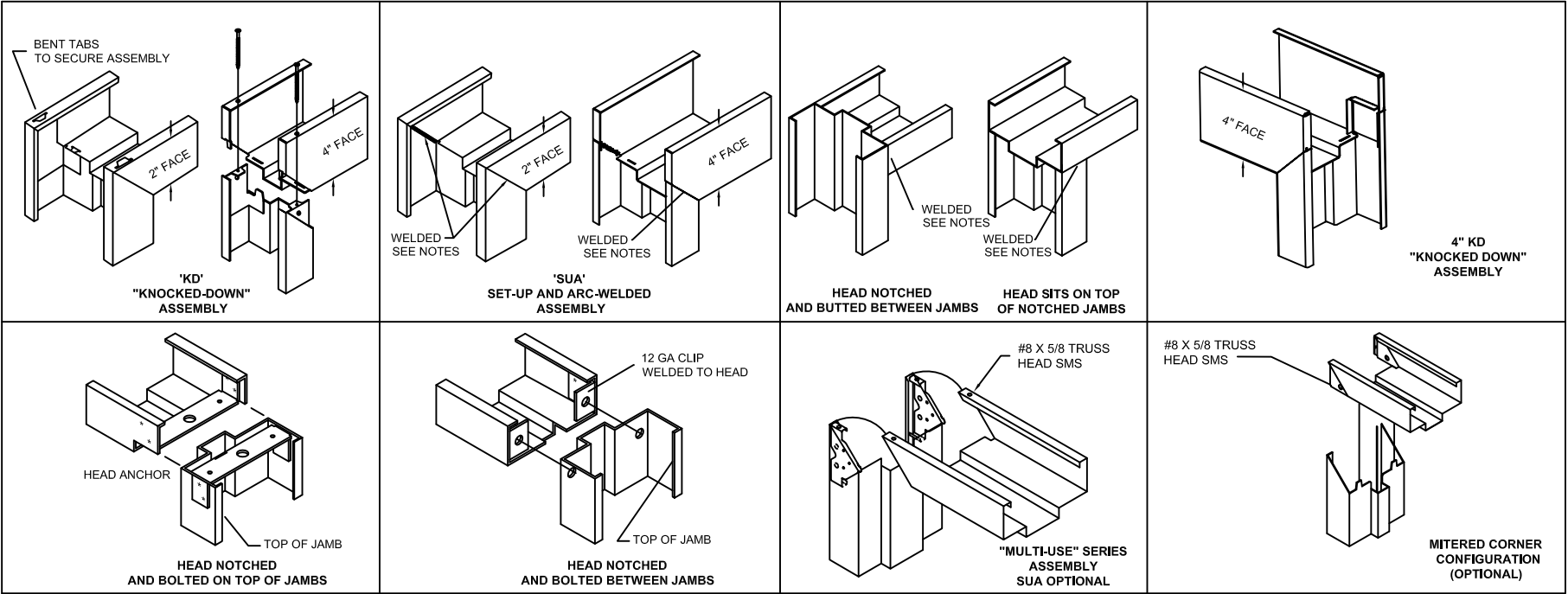
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OF 20

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WELDING NOTES:
1. CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM, GRIND SMOOTH AND PRIME PAINT. WELD CLASSIFICATION - E70XX

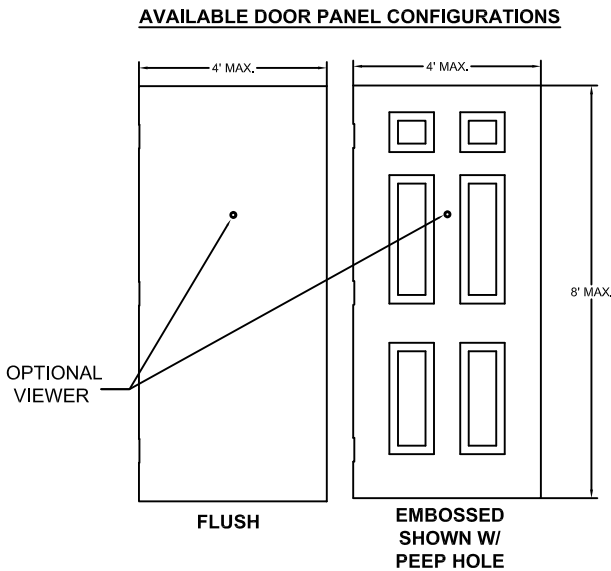
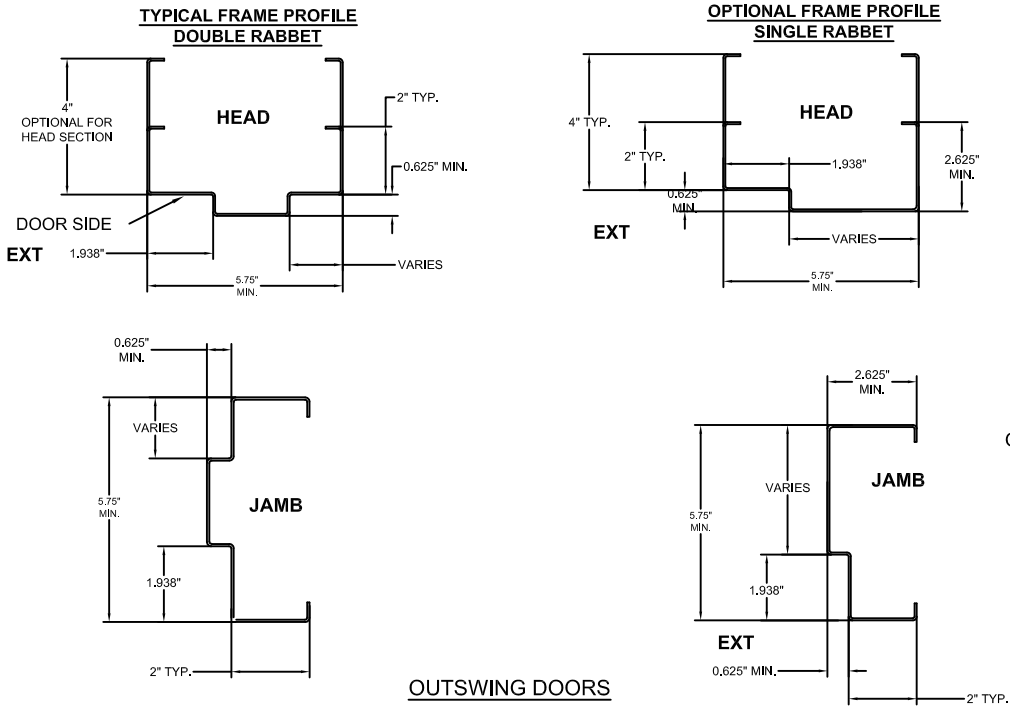


TABLE 9. AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT. 5	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 10. 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"

TABLE 11. STEEL MECHANICAL PROPERTIES

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



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

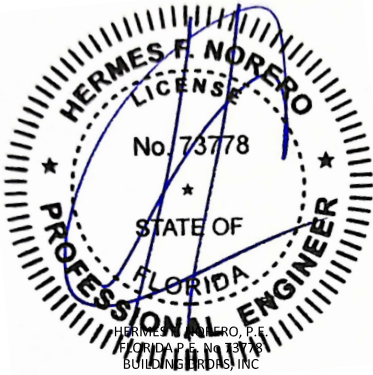
TITLE:OUTSWING DOUBLE FLUSH WITH FALCON MA SERIES MORTISE LOCK (HVHZ)(IMPACT)

REPUBLIC DOORS: FRAME DETAILS & CORNER CONSTRUCTION

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

REMARKS	BY	DATE
A. MISC UPDATE	DI	01/26

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, P.E.
FLORIDA PROFESSIONAL ENGINEER
BUILDING DROPS, INC.
1900 NE MIAMI COURT, STE. 2-15,
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL16740

DATE: **09.20.2024**

DWG. BY: **JA**CHK. BY: **HN**

SCALE: **NTS**

DWG. #: **FMADF**

SHEET: