

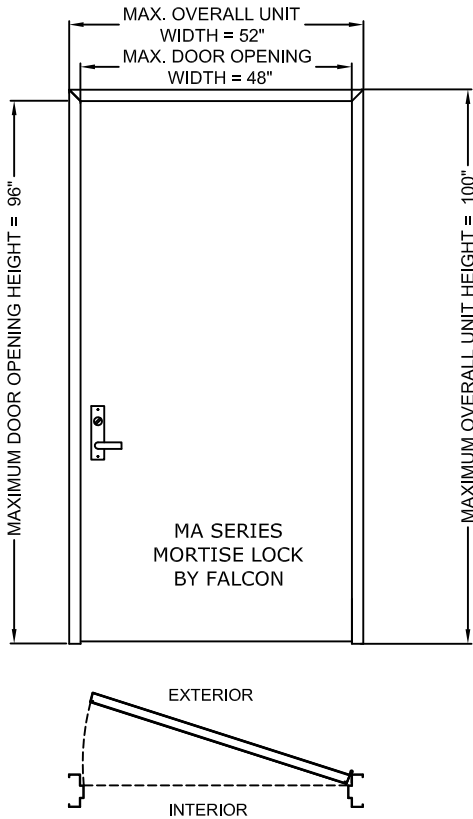
DESIGN PRESSURE RATING	
	WHERE WATER INFILTRATION REQUIREMENT IS <u>NOT</u> NEEDED
	OUTSWING
POSITIVE	+ 50 PSF
NEGATIVE	- 50 PSF

WATER INFILTRATION NOT APPROVED

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

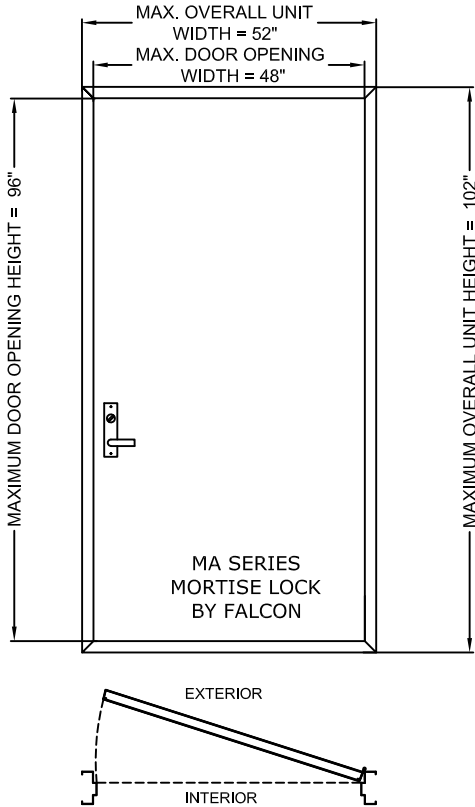
3-SIDED FRAME CONSTRUCTION

SINGLE OUTSWING DOOR



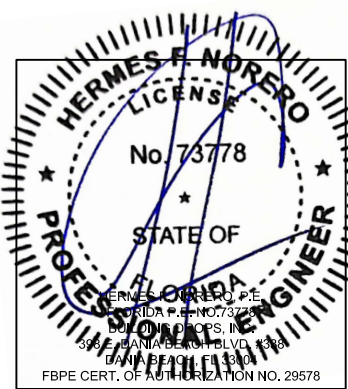
4-SIDED FRAME CONSTRUCTION

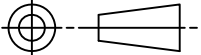
SINGLE OUTSWING
DOOR

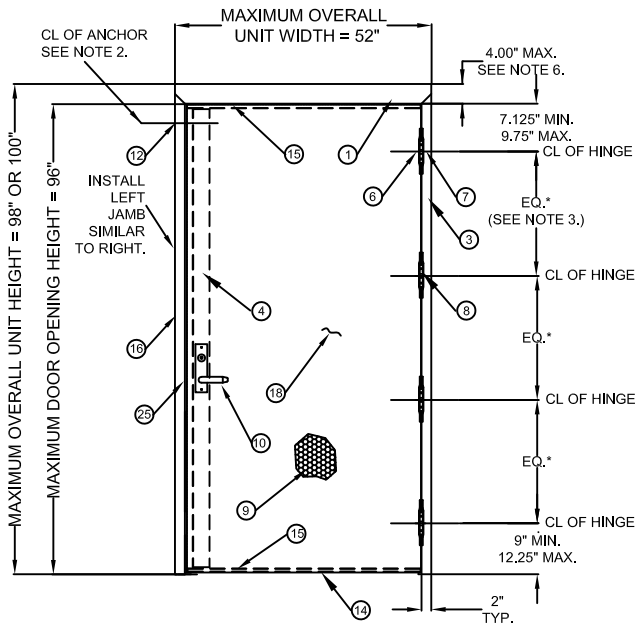


GENERAL NOTES:

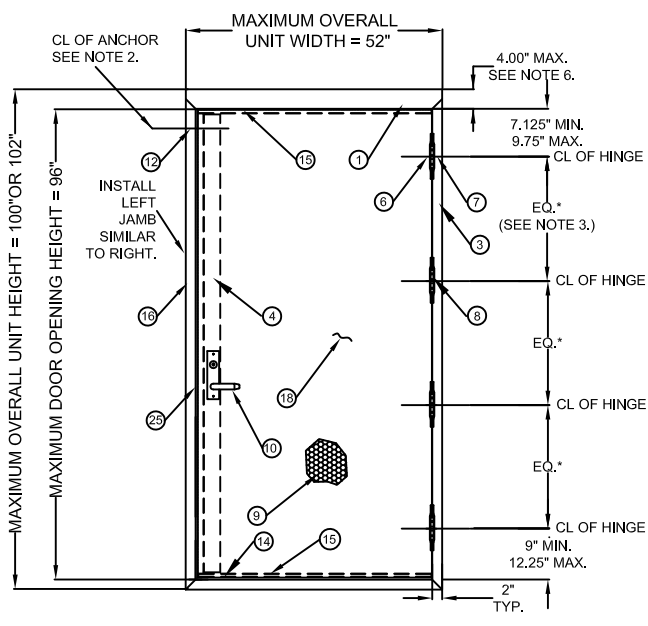
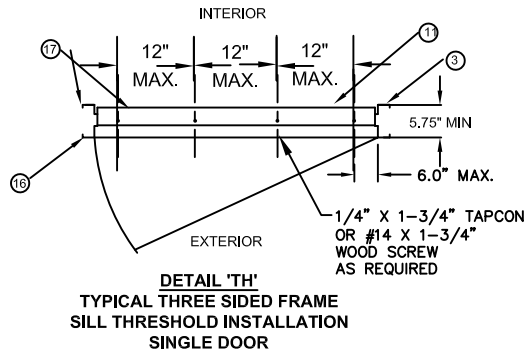
1. THIS DOOR SYSTEM HAS BEEN TESTED TO HVHZ PROTOCOLS TAS 201-94, TAS 202-94 & TAS 203-94, ASTM PROTOCOLS E1886-13A, E1996-14A & E330-14 AND COMPLIES WITH THE CURRENT FLORIDA BUILDING CODE EDITION
2. THE DOORS ARE LARGE MISSILE IMPACTED - 50 FEET PER SECOND
3. DISSIMILAR MATERIAL IN CONTACT SHALL MEET FBC REQUIREMENTS.
4. ASSEMBLIES MEET FBC AIR INFILTRATION REQUIREMENTS.



BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				
						
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL COMMERCIAL STEEL DOORS UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING THREE AND FOUR SIDED FRAMES TESTED TO TAS 201,202,203 HVHZ & ASTM E1886, E1996				
DRAWN	DATE					
JPD	08/21/13					
CHECKED						
APPROVED		SIZE	FLAT	DWG NO.	REV	
				FMA-SF	E	
ENG. APPVL		SCALE:	NTS	AUTOCAD	FL16740	SHEET 1 OF 16



OUTSWING DOOR WITH THREE SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE



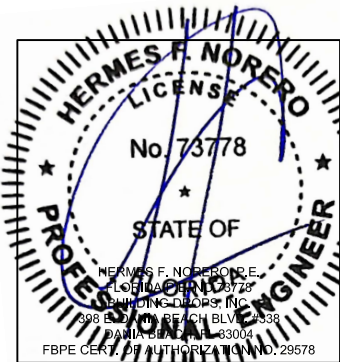
OUTSWING DOOR WITH FOUR SIDED FRAME
(EXTERIOR VIEW)
ALL DIMENSIONS TYPICAL, UNLESS SPECIFIED OTHERWISE

TABLE 2 (SEE TABLE 9, SHEET 15 FOR OPTION 2 CONFIGURATION)

	QUANTITY	DESCRIPTION	MATERIAL	SIZE
1	1	HEAD SEE SHT 13	.053" MIN. STL	MAX. 100"
2	1	SILL JAMB SEE SHT 13	.053" MIN. STL	MAX. 100" HEIGHT.
3	1	HINGE JAMB SEE SHT 13	.053" MIN. STL	MAX. 102" HEIGHT.
4	1	LOCK SIDE REINFORCEMENT CHANNEL	.093" MIN. STL	3.5 X 93.44 MAX
5				
6	NOTE 3.	HINGE REINFORCEMENT DOOR	.167" MIN. STL.	1.23" X 9.19" MIN.
7	1	HINGE REINFORCEMENT FRAME	.167" MIN. STL.	1.50" X 9.19" MIN.
8	NOTE 3.	4.5" X 4.5" BUTT HINGES (SEE SHT.4)	.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT.4)	.067" MIN. STL/.11 ALUM	MAX. 95"
9	1	CORE MATERIAL (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		
11	1	THRESHOLD SILL W/BUMPER GASKET (SEE SHT.12 &13)		48"MAX.
		1) ZERO 11A-T1)566A, 11B-T3)65A, 11C)568	ALUM. 6063 T5	
		2) NAT'L GUARD T2)950A, T4)803V	ALUM. 6063 T5	
12	NOTE 2.	JAMB ANCHOR	SEE SHEETS 6-11	
13	1	PS074 WEATHER STRIPPING	TPE	MAX. 24'
14	1	FAS-SEAL DOOR SWEEP	TPE	MAX. 47.66"
15	2	END CHANNEL (16 GA - INVERTED)	.053" MIN. STL.	.62" X 1.66" X 47.66" MAX.
16	1	STRIKE JAMB SEE SHTS 14 & 16	.053" MIN. STL	MAX. 102" HEIGHT.
17	AS NEEDED	BUTYL RUBBER, SILICONE OR LATEX W/ SILICONE		
18	1	DOOR SLAB (16 OR 14 GA)	SEE SHEET 14	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 SWEEP No.202N	TPE	MAX. 96"
21	2	BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39		
		BY NGP DOOR SWEEP No.200N	SEE SHEETS 12 & 13	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	1	TOP CAP GALV. A60	.020" MIN. STL.	0.5" X 1.76" X 48" MAX.
25	1	STRIKE REINFORCEMENT STRIKE JAMB	.053" MIN. STL	1.31" X 8.38." MIN.
26		IVES DOOR VIEWER U698/698		

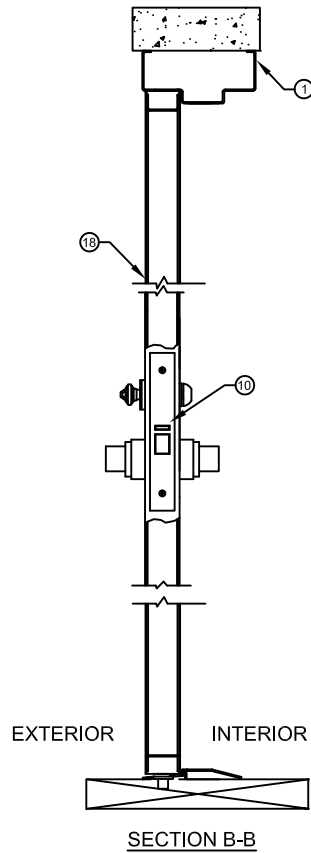
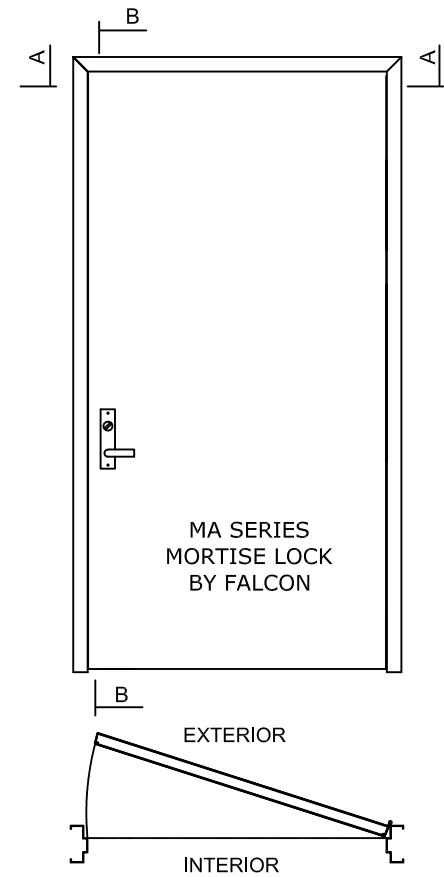
NOTES:

- WEATHERSTRIPPING
- INSTALL PER SHT.12.
- ANCHOR REQUIREMENTS: SEE SHEETS 6-11 FOR APPROVED ANCHOR INSTALLATION REQUIREMENTS.
- 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" - 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.
- SEE SHEET 1, 2, 13 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
- HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS AND THESE DETAILS.
- 4" FACE HEAD IS AVAILABLE WHEN GROUTED FULL.
- APPLY CAULK AS NEEDED.
- SEE SHEET 3 FOR SECTIONS A-A B-B, AND D-D.
- ELECTRICAL INSTALLATION IS UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
- OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE.

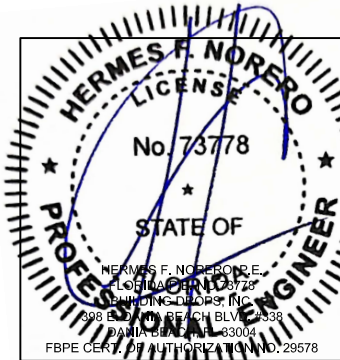
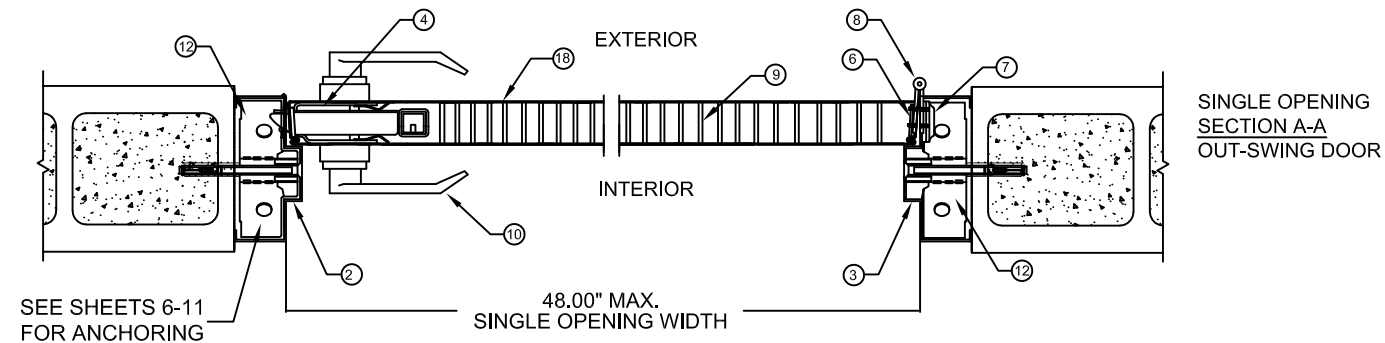
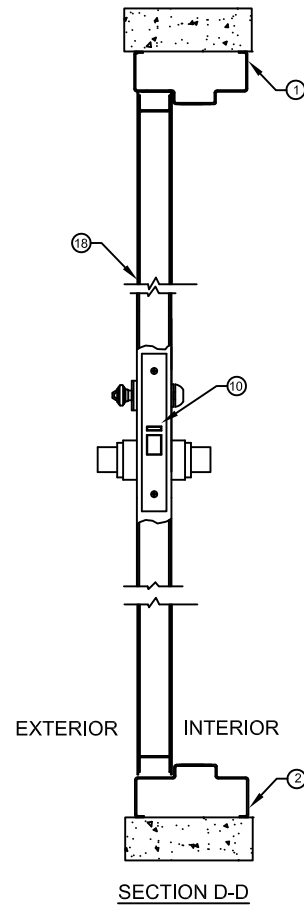
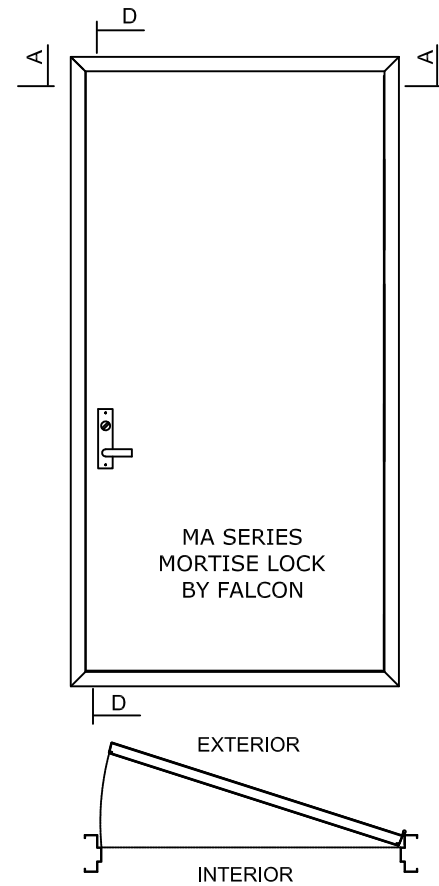


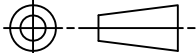
BEND RADIUS	ALLEGION-SCHLAGE LOCK COMPANY, LLC 11818 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION				
DRAWN JPD	DATE 08/21/13	TITLE FLORIDA BUILDING CODE PRODUCT APPROVAL STEELCRAFT DOORS UP TO 4'0"X8'0" SINGLE OPENING OUTSWING THREE AND FOUR SIDED FRAMES TESTED TO TAS 201, 202, 203 HVHZ & ASTM E1886, E1996		
CHECKED				
APPROVED		SIZE	FLAT	DWG NO.
ENG. APPVL X	08/21/13			
SCALE: NTS		AUTOCAD		FL16740
		SHEET 2 OF 16		REV E

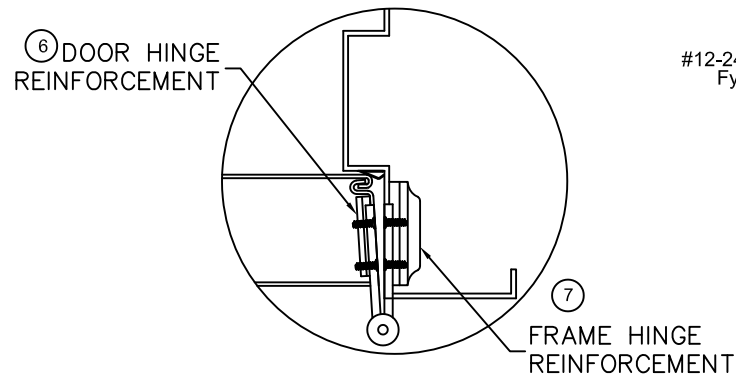
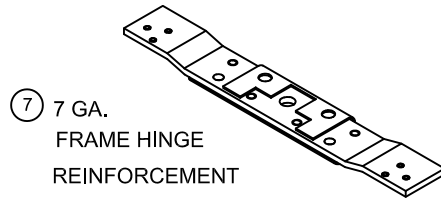
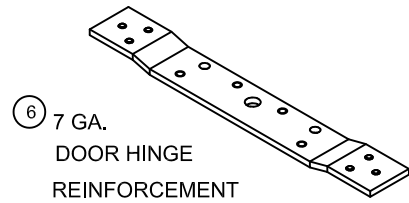
SINGLE DOOR WITH THREE SIDED FRAME



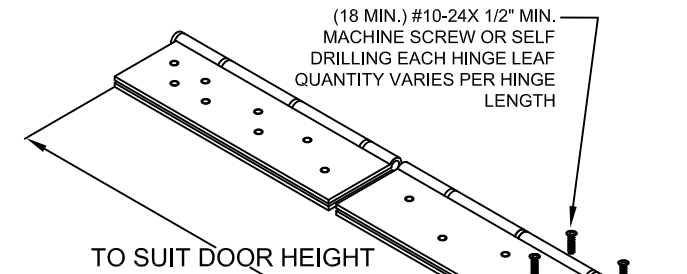
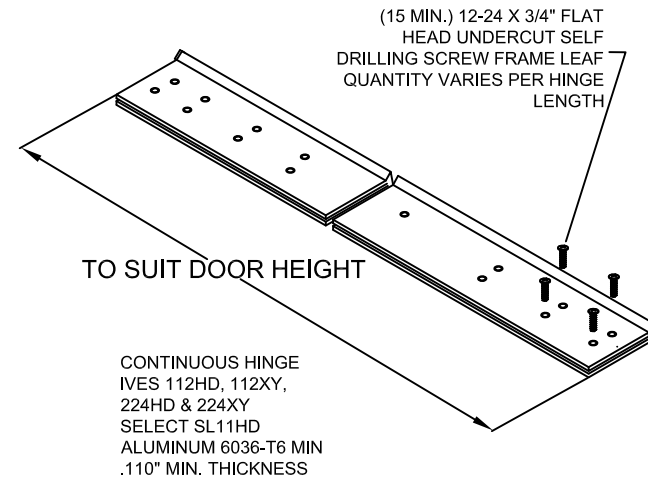
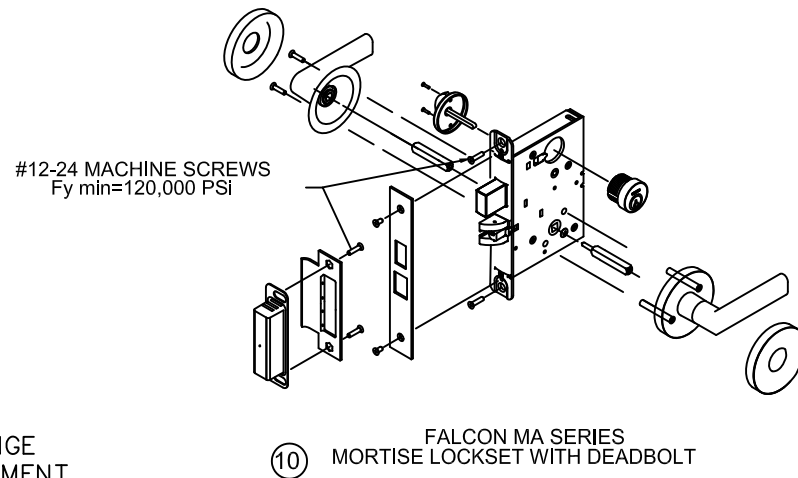
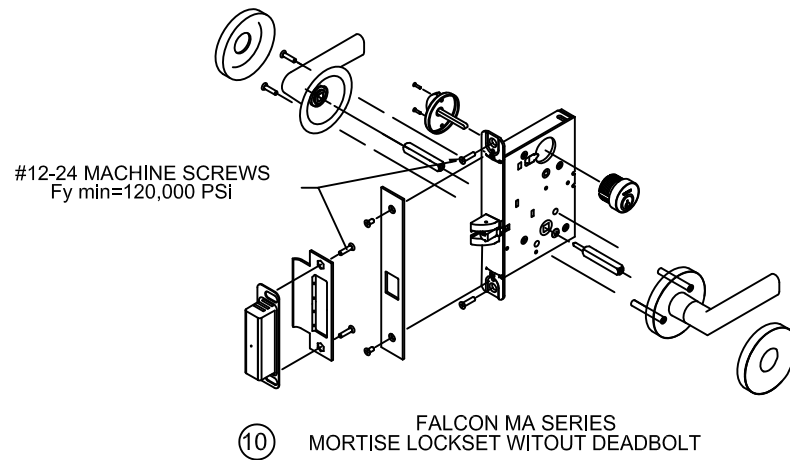
SINGLE DOOR WITH FOUR-SIDED FRAME



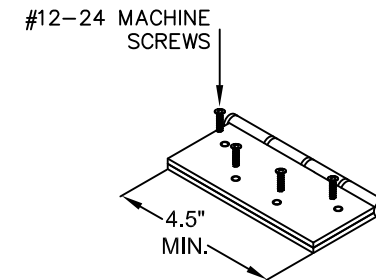
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11818 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE FLORIDA BUILDING CODE PRODUCT APPROVAL					
DRAWN	DATE	COMMERCIAL STEEL DOORS UP TO 4'0"X8'0" SINGLE OPENING OUTSWING THREE AND FOUR SIDED FRAMES TESTED TO TAS 201, 202, 203 HVHZ & ASTM E1886, E1996					
JPD	08/21/13						
CHECKED							
APPROVED		SIZE	FLAT	DWG NO.	FMA-SF	REV E	
ENG. APPVL		SCALE:		NTS	AUTOCAD	FL16740	SHEET 3 OF 14
X	08/21/13						



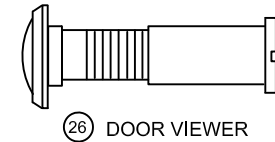
HINGE DETAIL



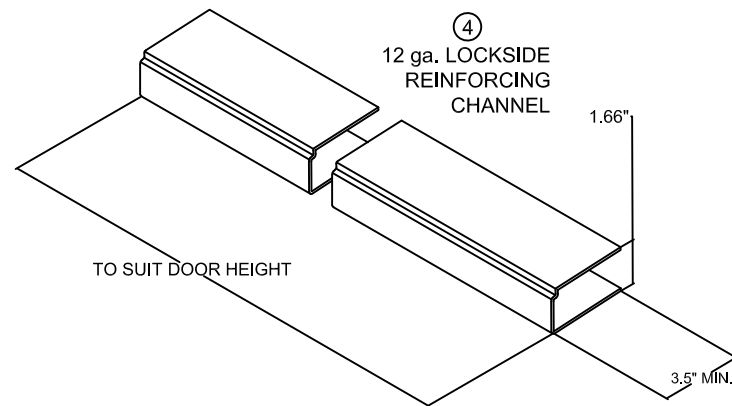
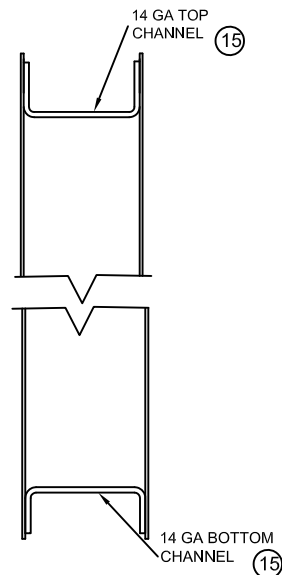
STEEL CONTINUOUS HINGE
IVES 600
.075 MIN. (14GA.) THICKNESS
1012 COLD ROLLED STEEL
Fy MIN. 45ksi
STAINLESS STEEL CONTINUOUS HINGE
IVES 700, 700CS
HAGER 790-900 & 780-224HD
ABH A500 & A240HD
.075" MIN. (14GA.) THICKNESS
304 STAINLESS STEEL
Fy MIN. 31ksi



BUTT HINGE
MIN SIZE 4.5" X 4.5"
STD. WT. (.134" MIN.)
IVES 5BB1,5PB1,3PB1,3CB1,5CB1
HAGER 1279
STANLEY F179/1900

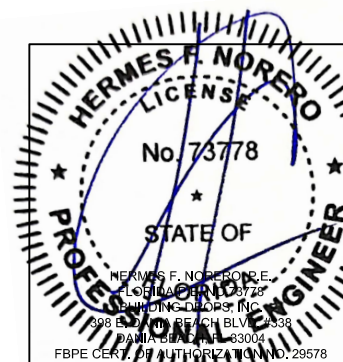


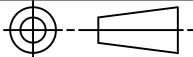
DOOR VIEWER

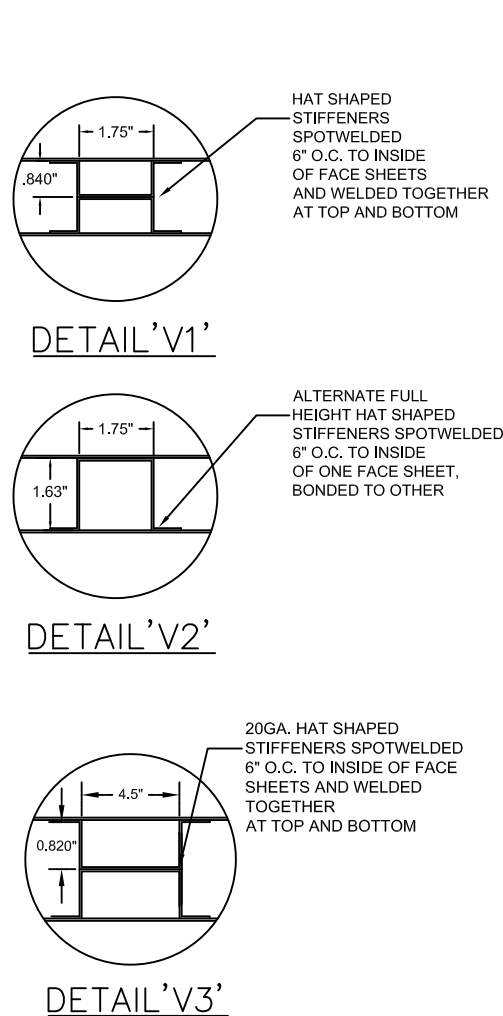
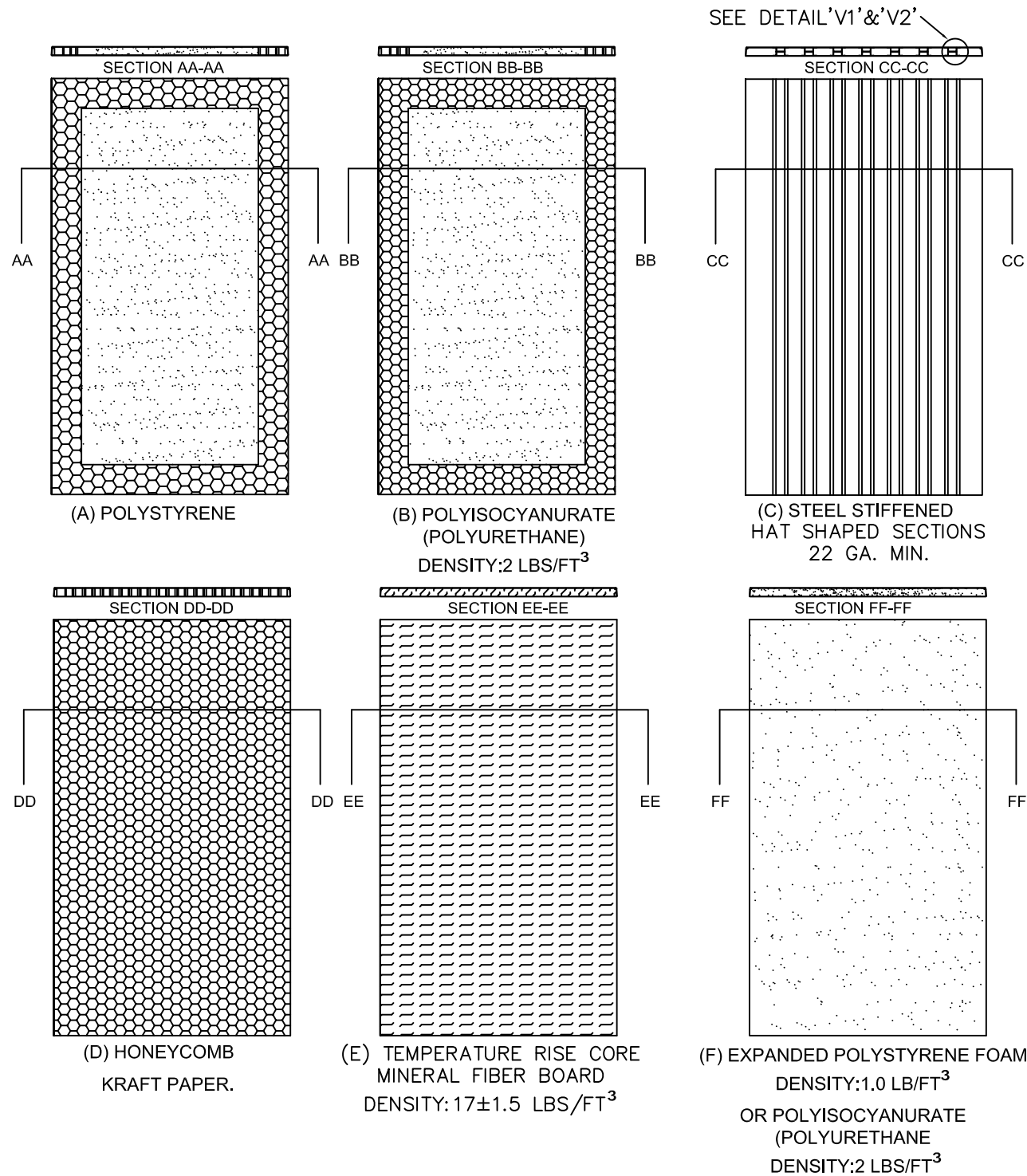


NOTES:

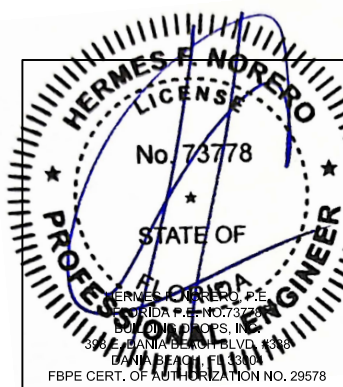
1. SEE SHTS. 1, 3, 14 & 16 FOR ELEVATION, MATERIAL AND SIZE
2. SEE SHTS. 6-11 FOR ANCHORING INFORMATION
3. SEE SHT. 13 FOR FRAME PROFILE
4. APPROVED HARDWARE INSTALLATION IS PER MANUFACTURER'S INSTRUCTIONS
5. HEAD SECTION CAN HAVE 4" FACE DIMENSION WHEN IT'S GROUTED WITH CONCRETE

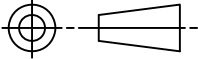


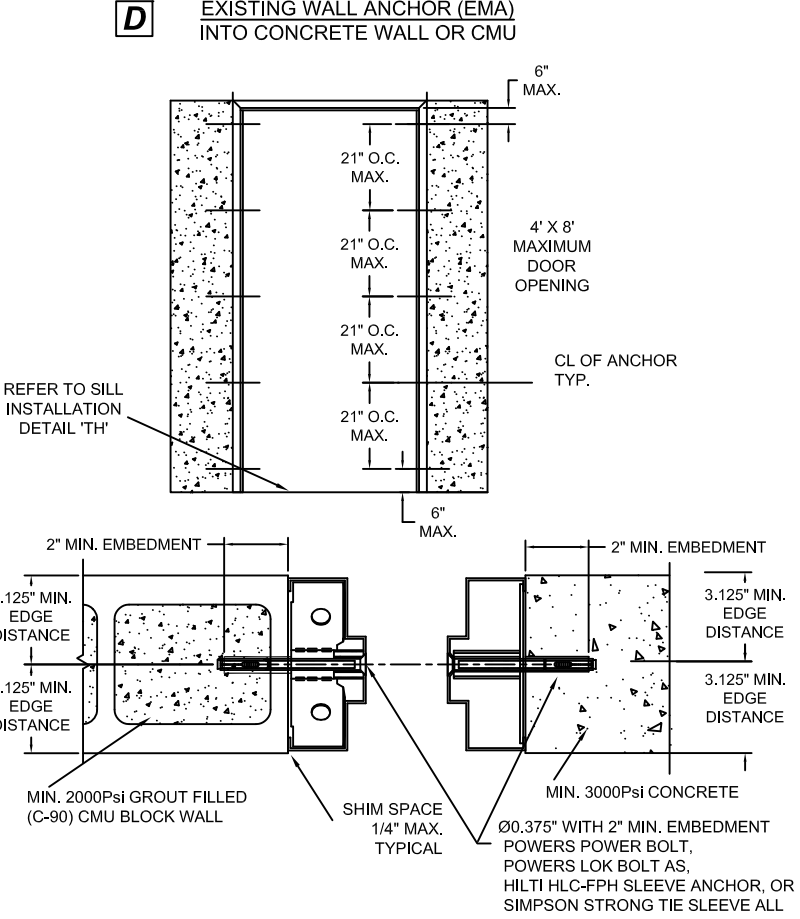
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11818 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE FLORIDA BUILDING CODE PRODUCT APPROVAL					
DRAWN	DATE	COMMERCIAL STEEL DOORS UP TO 4'0"X8'0" SINGLE OPENING OUTSWING THREE AND FOUR SIDED FRAMES TESTED TO TAS 201, 202, 203 HVHZ & ASTM E1886, E1996					
JPD	08/21/13						
CHECKED							
APPROVED		SIZE	FLAT	DWG NO.		FMA-SF	REV
							E
ENG. APPVL		SCALE:		NTS	AUTOCAD	FL16740	SHEET 4 OF 16
X	08/21/13						



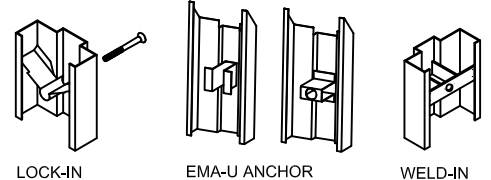
NOTES:
1. CORE MATERIAL SHOWN WITHOUT DOOR CUTOUTS AND REINFORCEMENTS.



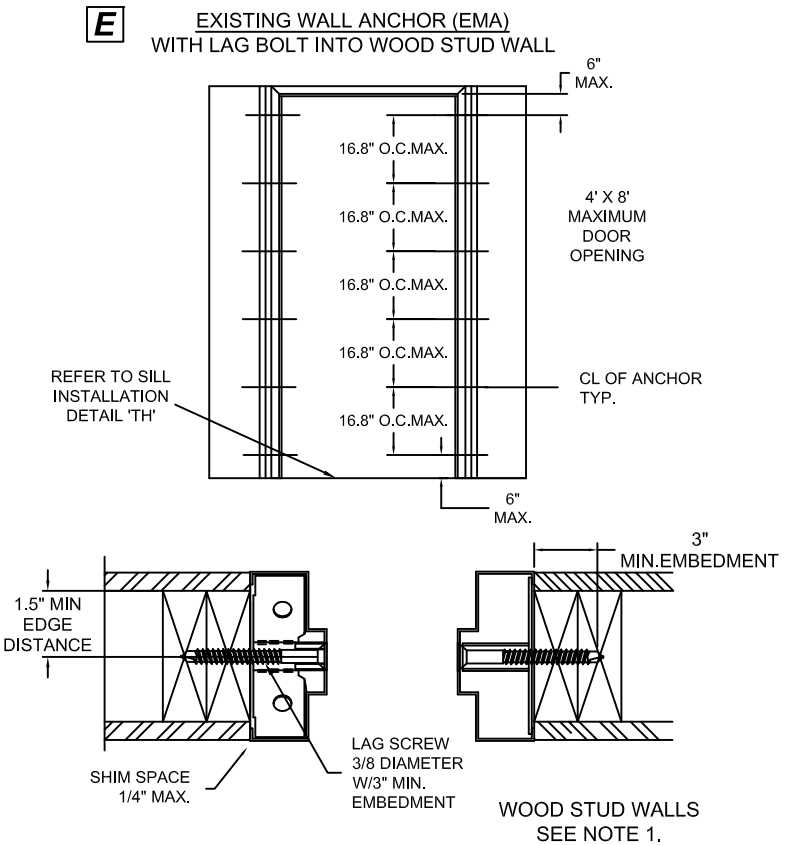
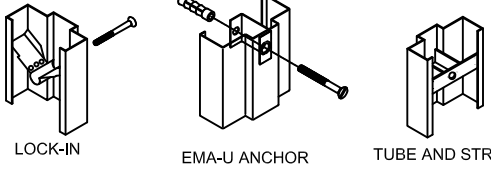
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL					
DRAWN JPD		DATE 08/21/2013		COMMERCIAL STEEL DOORS UP TO 4'0"X8'0" SINGLE OPENING OUTSWING DOOR CORE OPTIONS			
CHECKED							
APPROVED				FMA-SF			
ENG. APPVL X		08/21/13		SIZE	FLAT	DWG NO.	REV
							E
		SCALE:	NTS	AUTOCAD	FL16740	SHEET	5 OF 16



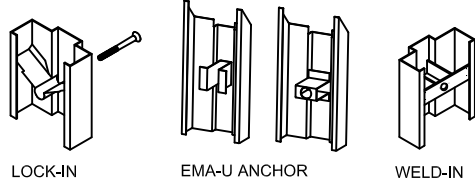
TYPE 1 EMA ANCHORS



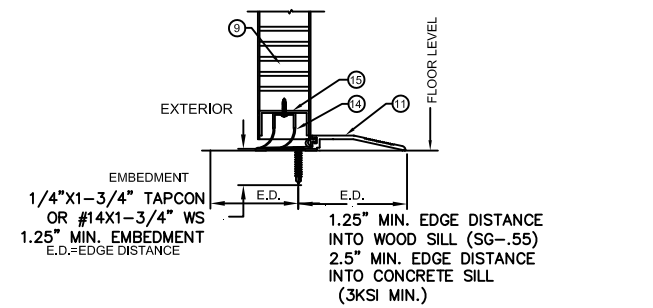
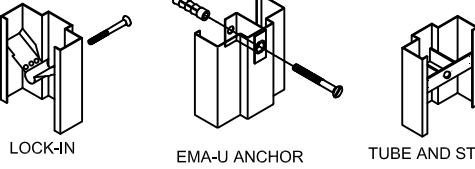
TYPE 2 EMA ANCHORS



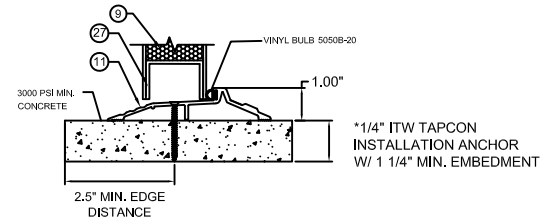
TYPE 1 EMA ANCHORS



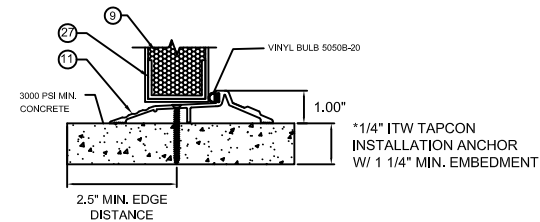
TYPE 2 EMA ANCHORS



TYPE 1 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL

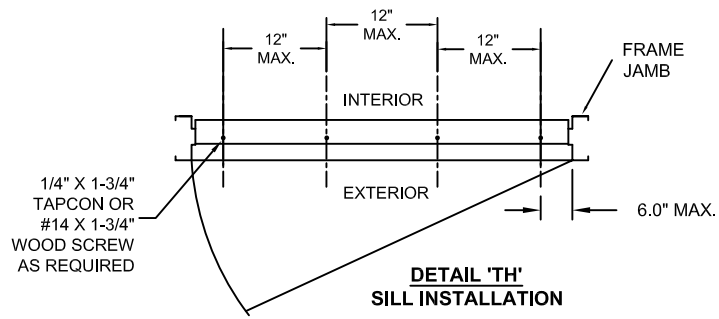


TYPE 2 THRESHOLD DETAIL (SILL) WITH INVERTED BOTTOM RAIL

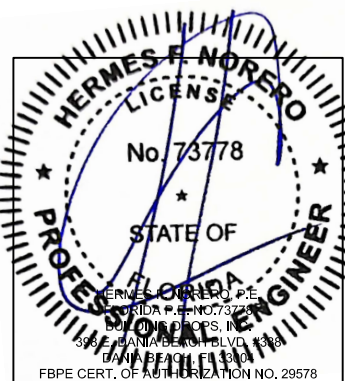


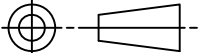
TYPE 2 THRESHOLD DETAIL (SILL) WITH FLUSH BOTTOM RAIL

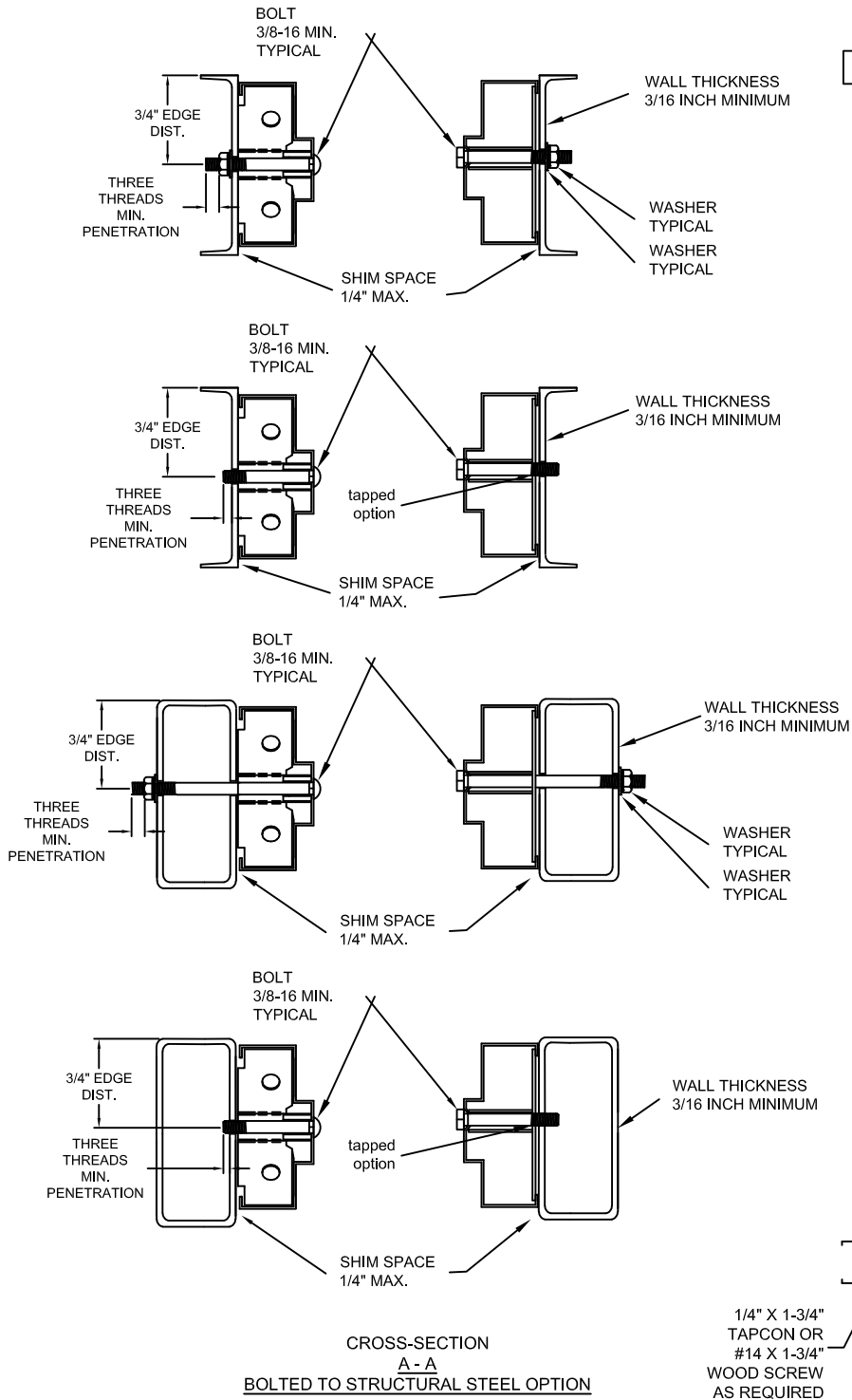
NOTE: 803V THRESHOLD MAY BE INSTALLED WITH #12 WOOD SCREW TYPE INSTALLATION ANCHORS WHEN INTO 2X WOOD BUCK SUBSTRATES (MIN. SG= 0.55) WITH MINIMUM 1-1/2" EMBEDMENT AND MINIMUM 3/4" EDGE DISTANCE.



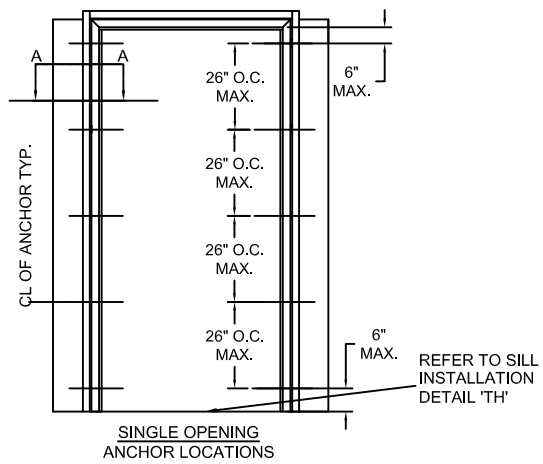
- NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55. STEEL MIN. 18 GA. Fy=33KSI
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN 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.



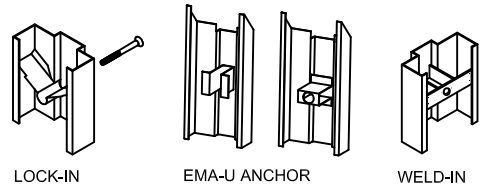
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				
						
THIRD ANGLE PROJECTION		TITLE:FLORIDA BUILDING CODE PRODUCT APPROVAL				
DRAWN	DATE	COMMERCIAL STEEL DOORS UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING THREE SIDED FRAMES ANCHOR DETAILS / INSTALLATION CONDITIONS				
JPD	10/25/12					
CHECKED						
APPROVED		SIZE	FLAT	DWG NO.	FMA-SF	REV E
ENG. APPVL		SCALE:	NTS	AUTOCAD	FL16740	SHEET 7 OF 16



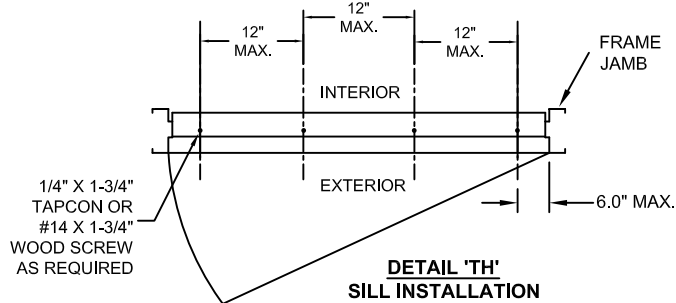
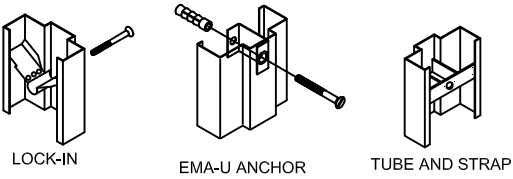
F FRAMES BOLTED TO BUILDING STRUCTURE



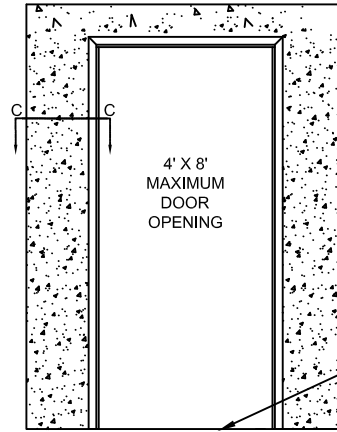
TYPE 1 EMA ANCHORS



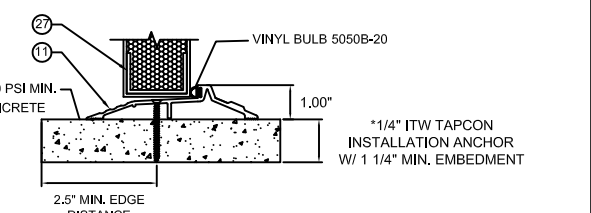
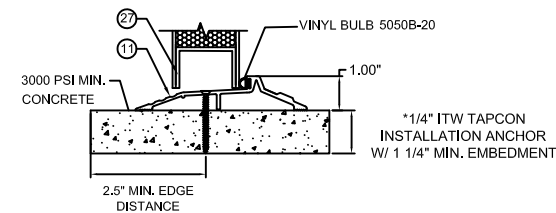
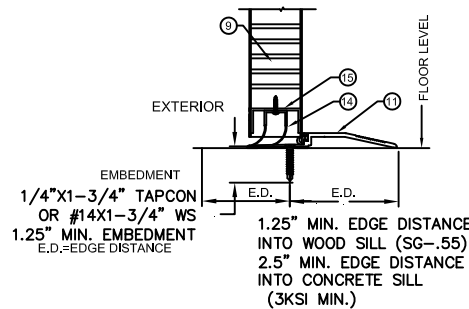
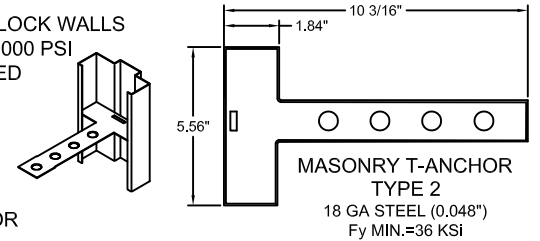
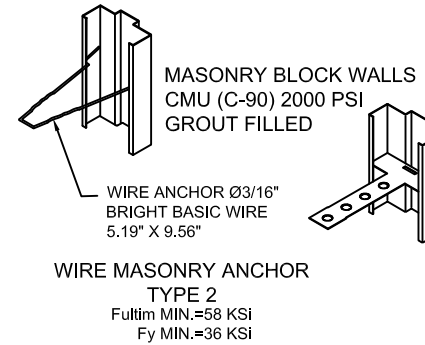
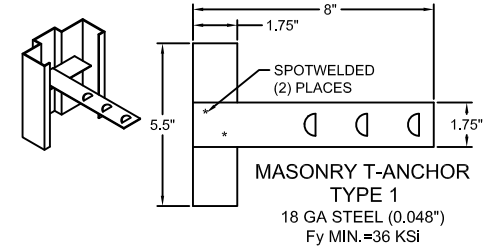
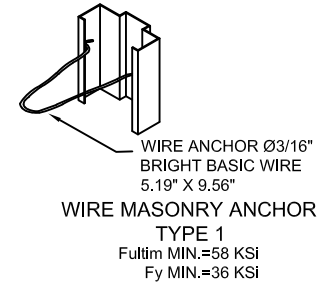
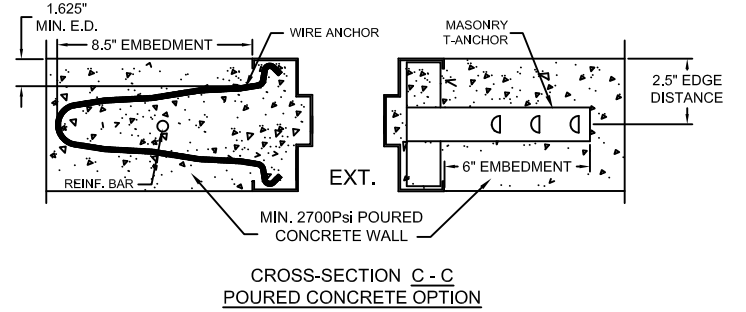
TYPE 2 EMA ANCHORS



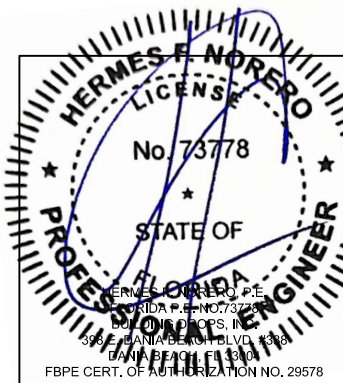
G POURED CONCRETE TILT UP WALL

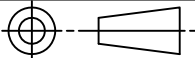


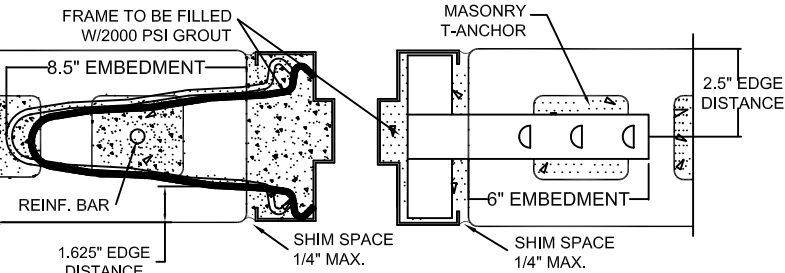
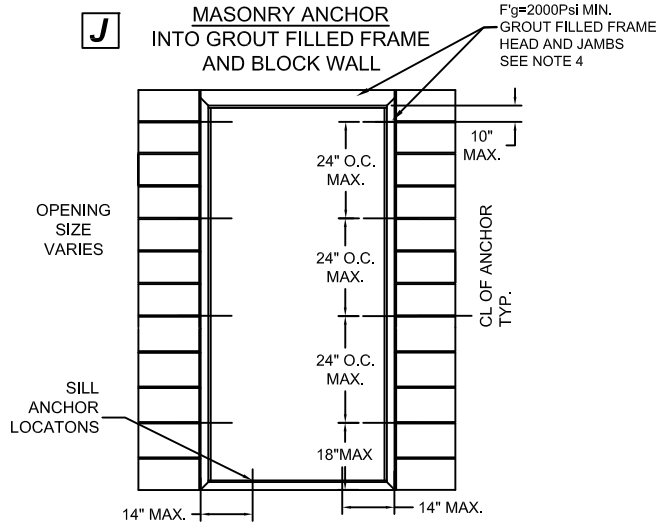
CROSS-SECTION C-C POURED CONCRETE OPTION



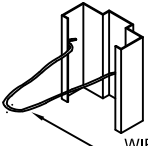
- NOTES:
- 1.STRUCTURAL MEMBERS MUST BE DESIGNED TO CARRY APPROPRIATE LOAD, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.
 - 2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 - 3.BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
 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.



BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032						
								
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL COMMERCIAL STEEL DOORS UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING THREE SIDED FRAMES ANCHOR DETAILS / INSTALLATION CONDITIONS						
DRAWN	DATE							
JPD	10/25/12							
CHECKED								
APPROVED		SIZE	FLAT	DWG NO.		FMA-SF		REV
ENG. APPVL						E		
SCALE:		NTS	AUTOCAD	FL16740		SHEET	8 OF	14



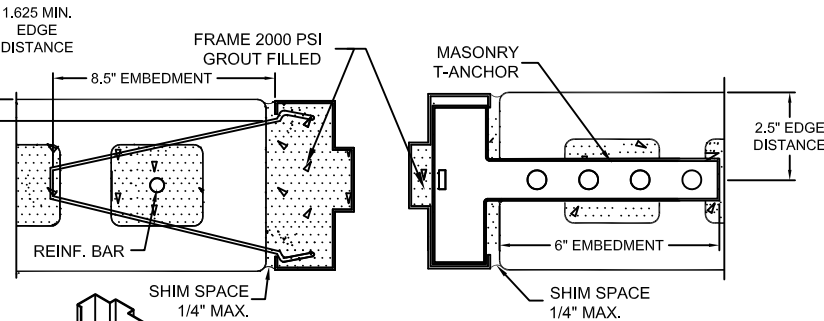
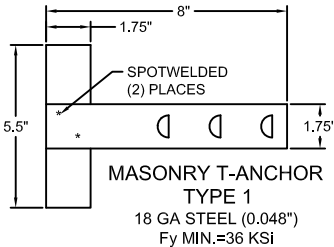
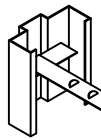
MASONRY BLOCK WALLS CMU (C-90) 2000PSI GROUT FILLED



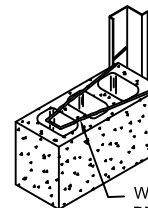
WIRE MASONRY ANCHOR TYPE 1

F_{ult} MIN.=58 KSI

F_y MIN.=36 KSI



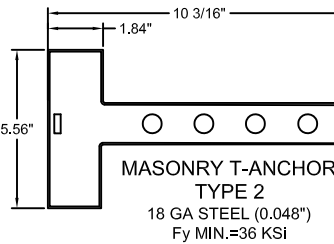
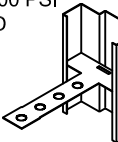
MASONRY BLOCK WALLS CMU (C-90) 2000 PSI GROUT FILLED



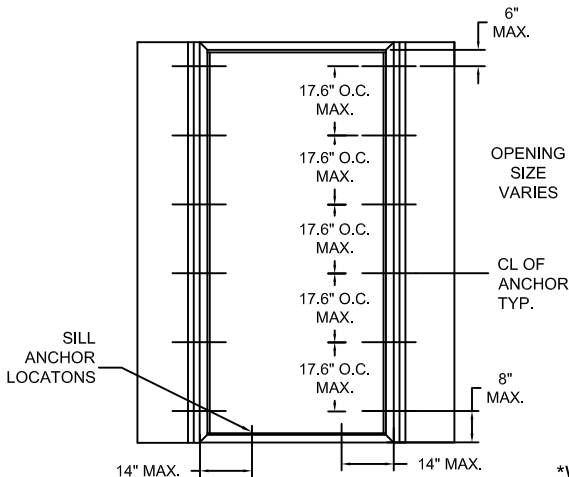
WIRE MASONRY ANCHOR TYPE 2

F_{ult} MIN.=58 KSI

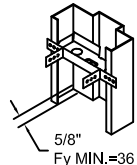
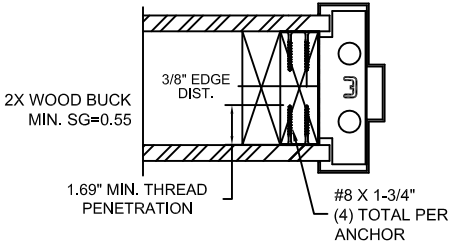
F_y MIN.=36 KSI



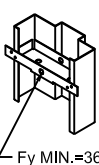
K WOOD STUD ANCHOR



*WOOD STUD WALLS SEE NOTE 1.

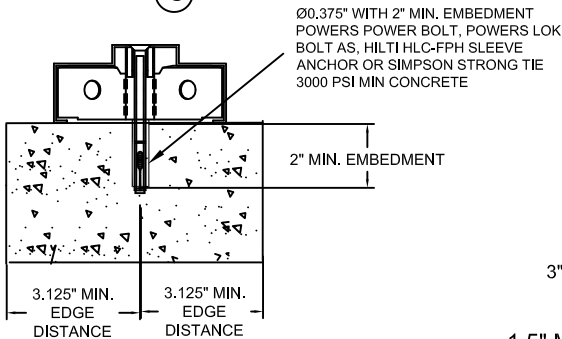


WOOD STUD OR UNIVERSAL ANCHOR TYPE 1 (LOCK-IN OR WELD-IN)

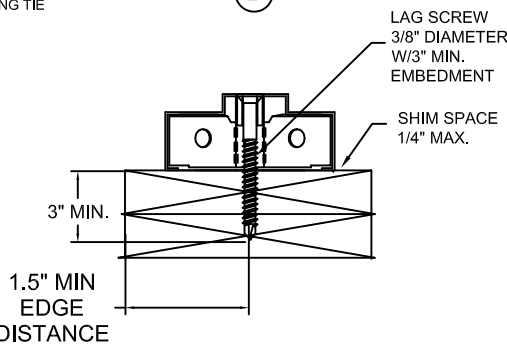


WOOD STUD OR UNIVERSAL ANCHOR TYPE 2 (LOCK-IN OR WELD-IN)

SILL ANCHOR DETAIL C

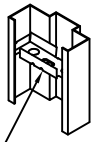
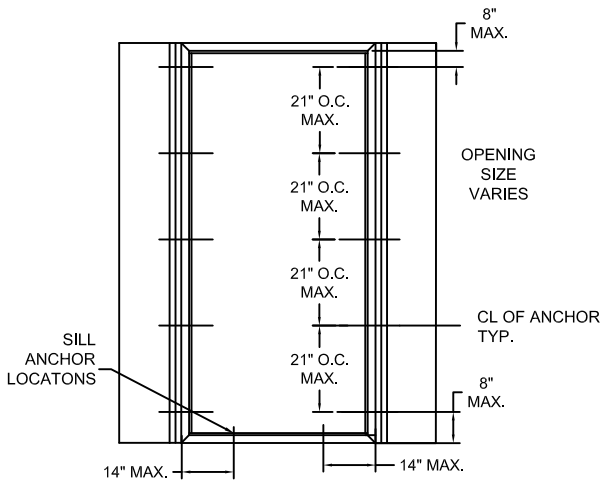


SILL ANCHOR DETAIL D

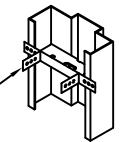


- NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55. STEEL MIN. 18 GA. F_y=33KSI
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 3. APPLY CAULK AS NEEDED.
 4. MASONRY WIRE, T ANCHORS, AND EXISTING MASONRY ANCHORS WITHOUT BOLTS INSTALLED MAY BE USED IN POURED CONCRETE TILT UP WALLS.
 5. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL WALL TYPES

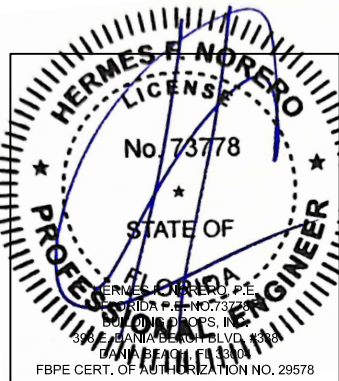
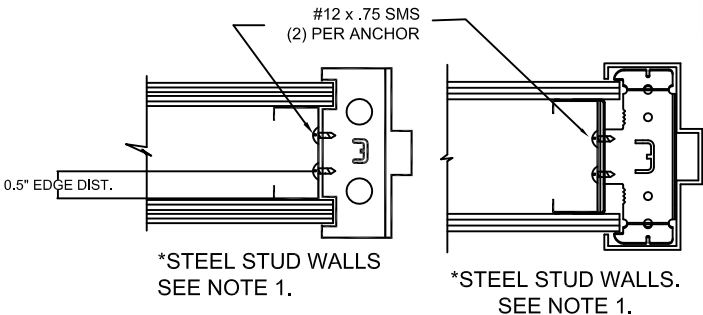
L STEEL STUD ANCHOR

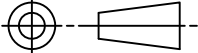


STEEL STUD ANCHOR WELD-IN OR LOCK-IN



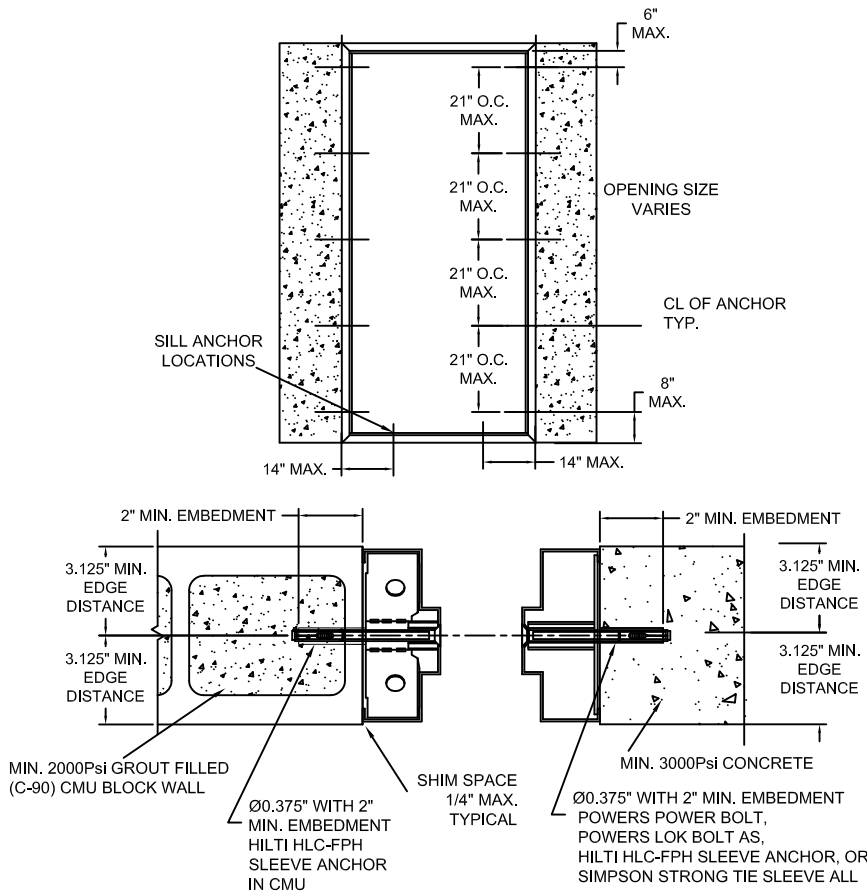
UNIVERSAL ANCHOR WELD-IN OR LOCK-IN



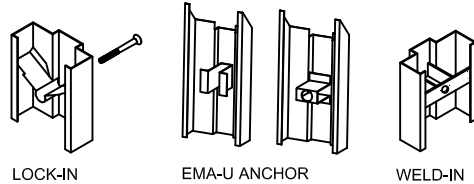
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				
						
THIRD ANGLE PROJECTION		TITLE:FLORIDA BUILDING CODE PRODUCT APPROVAL				
DRAWN JPD		DATE 10/25/12		COMMERCIAL STEEL DOORS		
CHECKED				UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING		
				FOUR SIDED FRAMES		
				ANCHOR DETAILS / INSTALLATION CONDITIONS		
APPROVED		SIZE	FLAT	DWG NO. FMA-SF		REV E
ENG. APPVL		SCALE:	NTS	AUTOCAD	FL16740	SHEET 9 OF 16



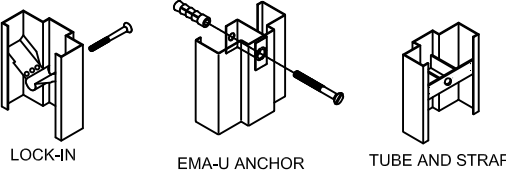
EXISTING WALL ANCHOR (EMA)
INTO CONCRETE WALL OR CMU



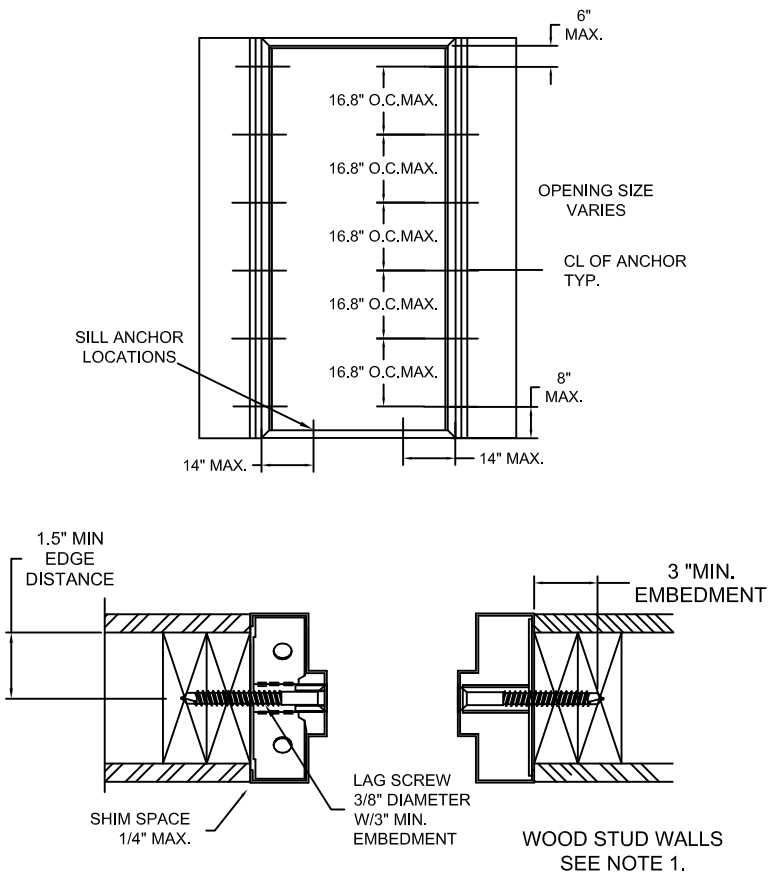
TYPE 1 EMA ANCHORS



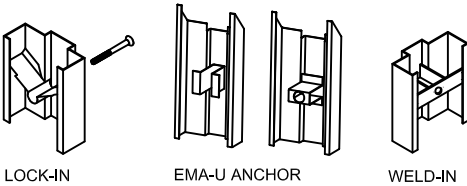
TYPE 2 EMA ANCHORS



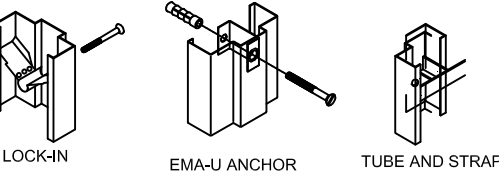
EXISTING WALL ANCHOR (EMA)
WITH LAG BOLT INTO WOOD STUD WALL



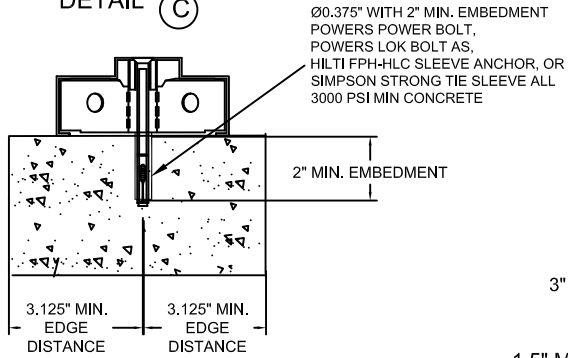
TYPE 1 EMA ANCHORS



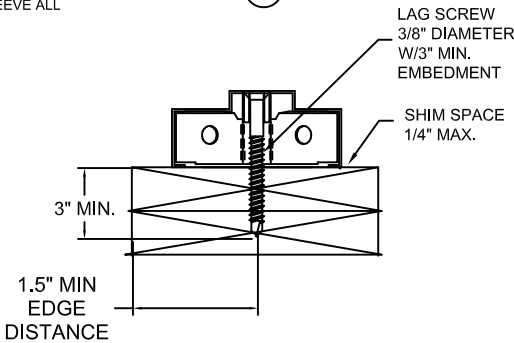
TYPE 2 EMA ANCHORS



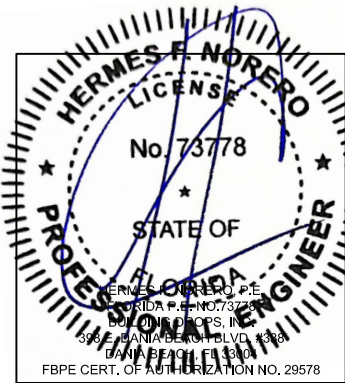
SILL ANCHOR
DETAIL C

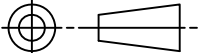


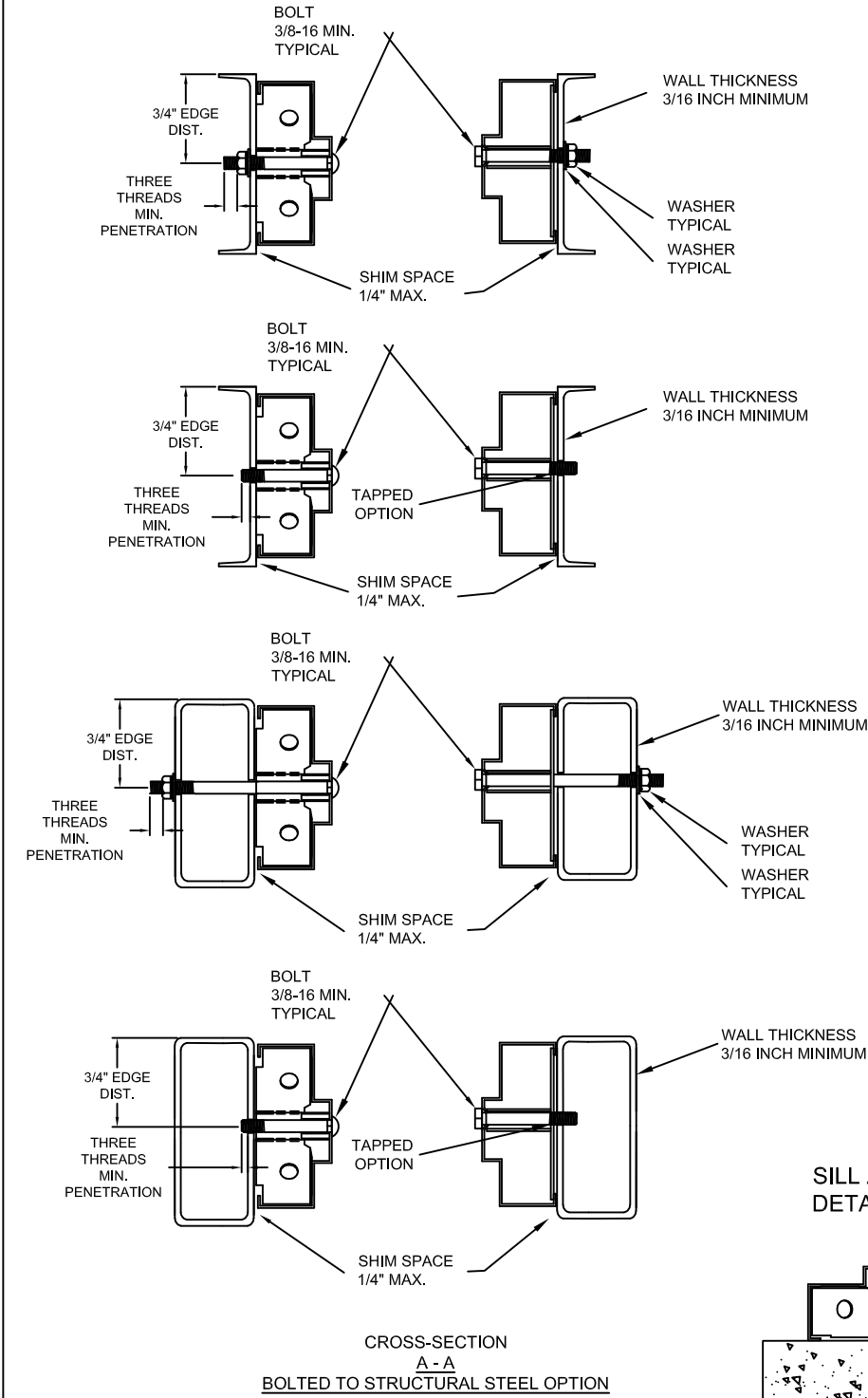
SILL ANCHOR
DETAIL D



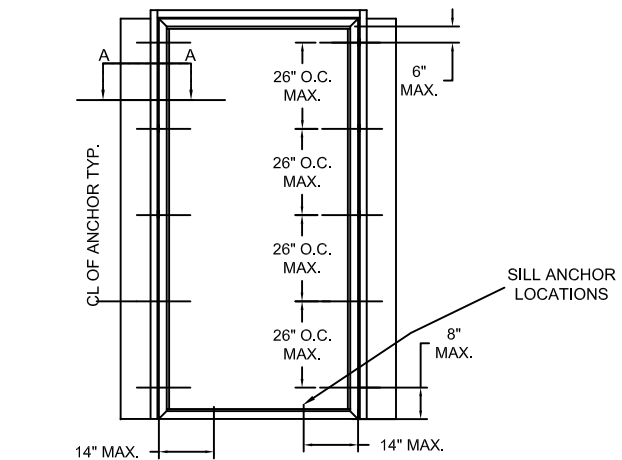
- NOTES:
1. WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY THE APPROPRIATE LOAD TO MEET THE REQUIREMENTS OF THE BUILDING CODE. WOOD MIN. S.G. = 0.55. STEEL MIN. 18 GA. Fy=33KSI
 2. NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.
 3. APPLY CAULK AS NEEDED.
 4. FRAMES WITH FRAME HEAD GROUTED FULL DO NOT REQUIRE ANCHORS TO BE INSTALLED IN THE HEAD
 5. FRAMES WITH 4\"
 6. HEAD ANCHORS TO SUIT SUBSTRATE, TYPE MAY VARY FROM JAMB ANCHOR



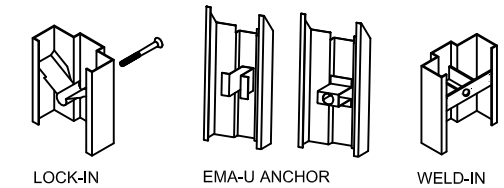
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				
						
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL COMMERCIAL STEEL DOORS UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING FOUR SIDED FRAMES ANCHOR DETAILS / INSTALLATION CONDITIONS				
DRAWN	DATE					
JPD	10/25/12					
CHECKED						
APPROVED						
ENG. APPVL		SIZE	FLAT	DWG NO.	FMA-SF	REV E
SCALE:		NTS	AUTOCAD	FL16740	SHEET 10 OF 16	



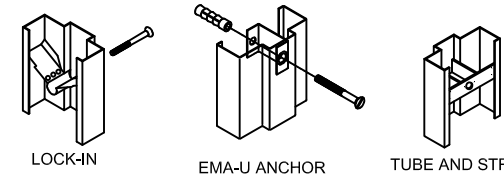
O FRAMES BOLTED TO BUILDING STRUCTURE



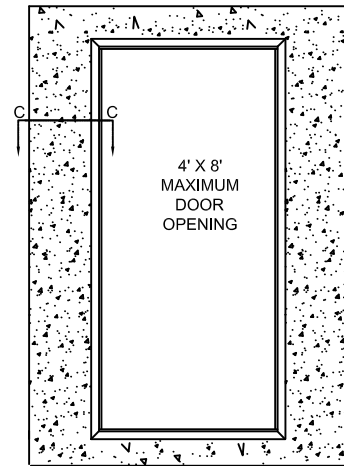
TYPE 1 EMA ANCHORS



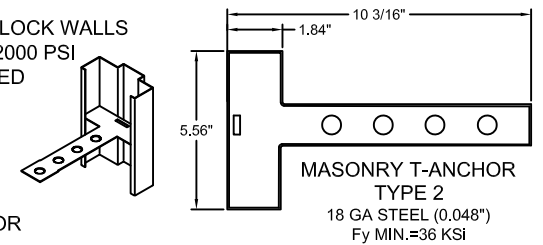
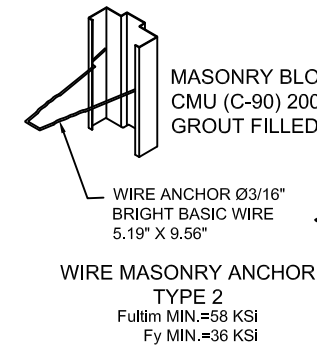
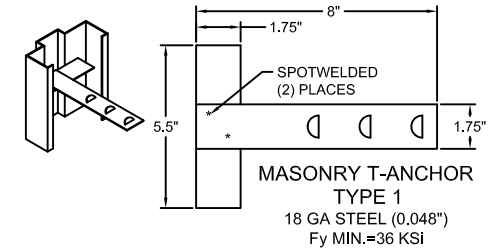
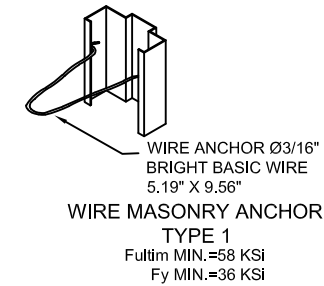
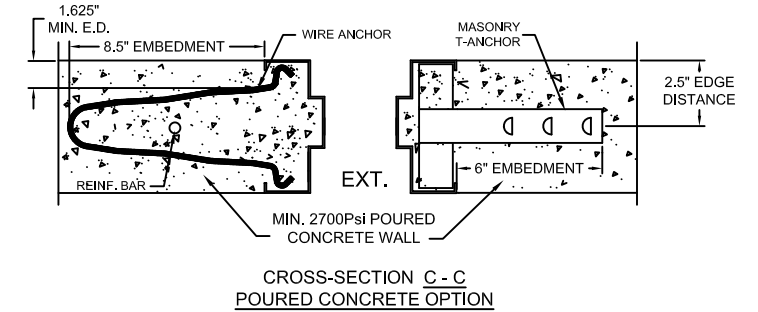
TYPE 2 EMA ANCHORS



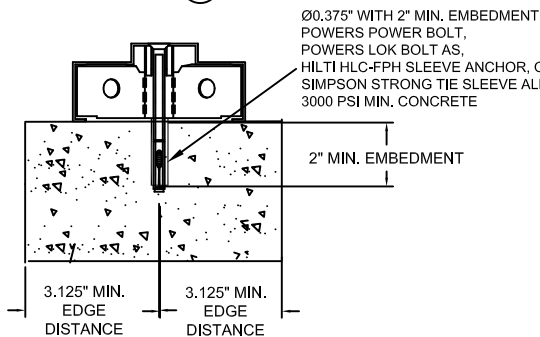
P POURED CONCRETE
TILT UP WALL



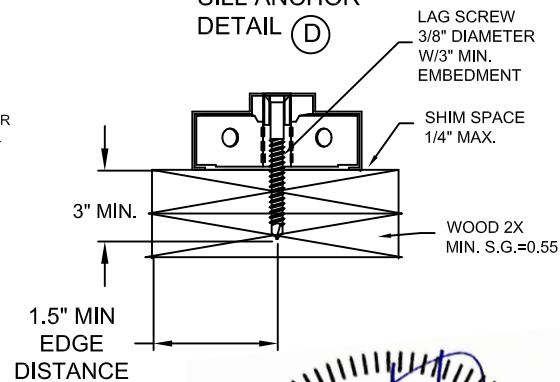
CROSS-SECTION C-C
POURED CONCRETE OPTION
SEE ANCHOR DETAIL A FOR REQUIRED JAMB ANCHORAGE WHEN POURED CONCRETE SUBSTRATE IS USED



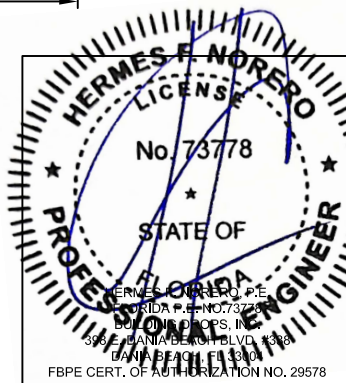
SILL ANCHOR DETAIL C



SILL ANCHOR DETAIL D



- NOTES:
- 1.STRUCTURAL MEMBERS 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.BOTH JAMBS MUST HAVE EQUAL NUMBER OF ANCHORS.
 - 4.HEAD ANCHORS TO SUIT SUBSTRATE, TYPE MAY VARY FROM JAMB ANCHOR
 5. APPLY CAULK AS NEEDED.
 6. FRAMES WITH 4" FACE HEAD MUST HAVE HEAD GROUTED FULL. 4" FACE HEAD MAY BE USED WITH ALL WALL TYPES.



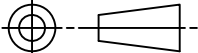
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032					
							
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL COMMERCIAL STEEL DOORS UP TO 4'-0"X8'-0" SINGLE OPENING OUTSWING FOUR SIDED FRAMES ANCHOR DETAILS / INSTALLATION CONDITIONS					
DRAWN JPD	DATE 10/25/12						
CHECKED							
APPROVED							
ENG. APPVL							
		SIZE	FLAT	DWG NO. FMA-SF		REV E	
SCALE:		NTS	AUTOCAD	FL16740	SHEET 11 OF	16	

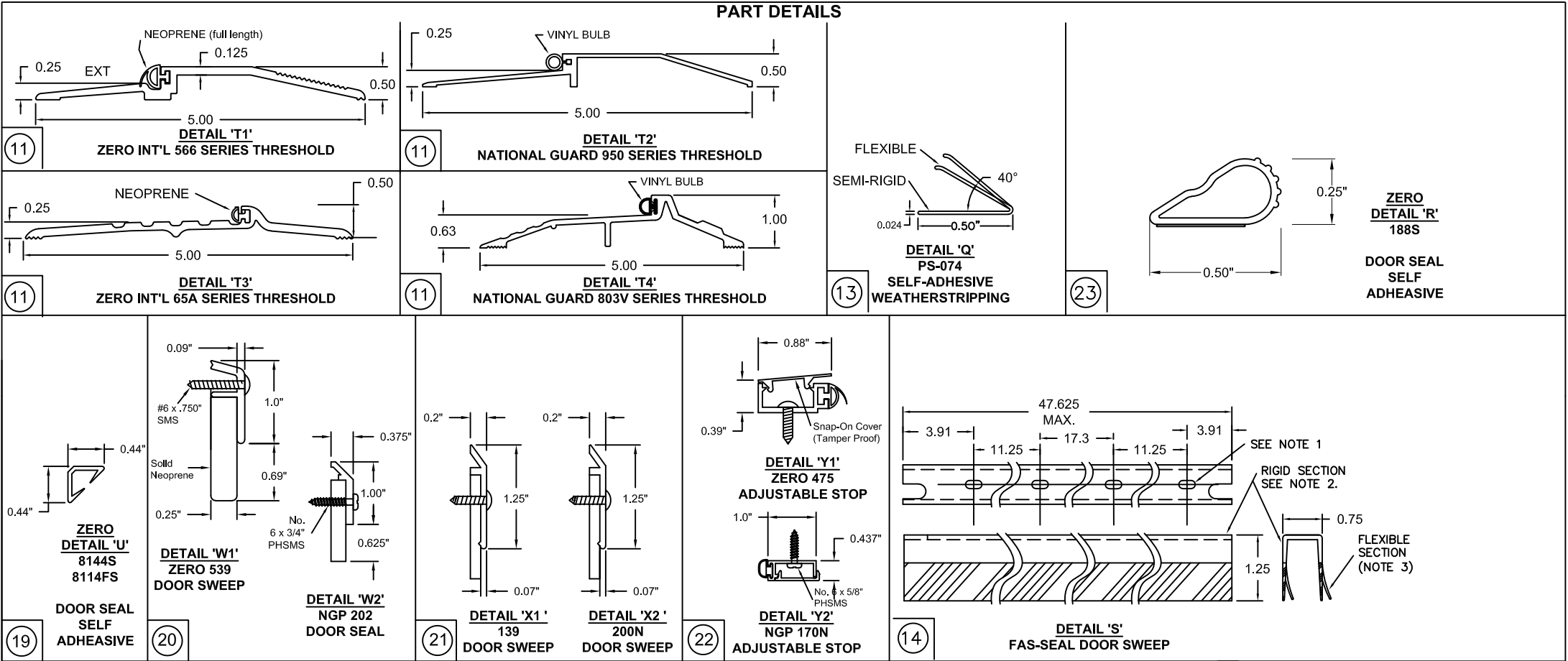
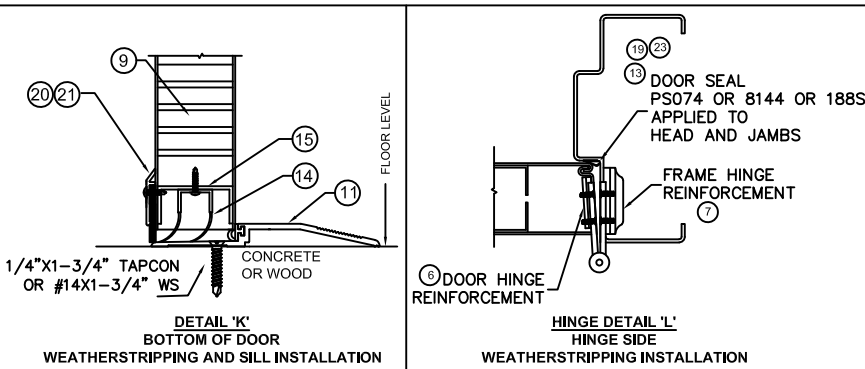
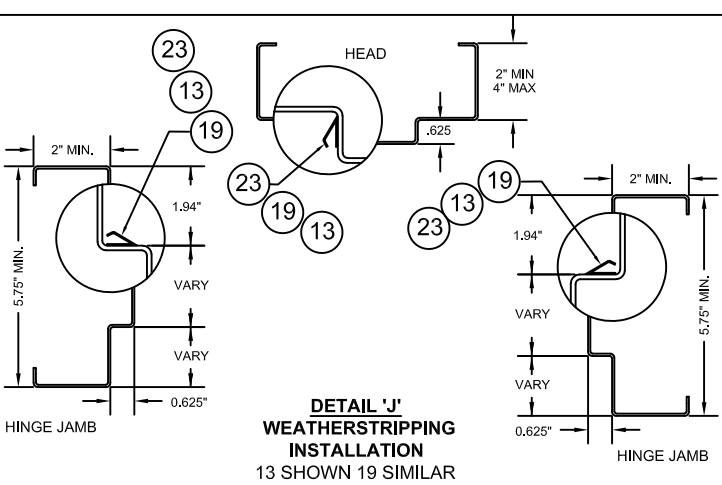
TABLE 3.

MINIMUM PERIMETER SEAL OPTIONS				
ITEM NUMBER SHT 3. TABLE 2	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 4.

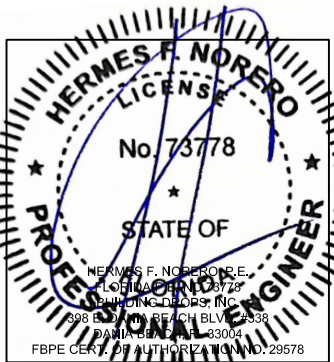
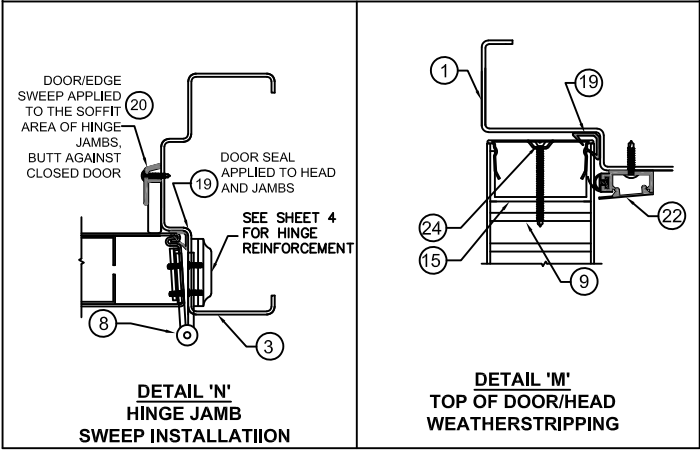
OPTIONAL PERIMETER SEALS				
ITEM NUMBER SHT. 3 TABLE 2	DESCRIPTION	MODEL No. MANUFACTURER	PART DETAIL	INSTALLATION DETAIL
20 OR 21	DOOR SWEEP	539/ZERO INT'L	'W1'	'K'
		202N/NGP	'W2'	
		139/ZERO INT'L	'X1'	
		200N/NGP	'X2'	
20	DOOR SWEEP APPLIED TO JAMBS	539/ZERO INT'L	'W1'	'N'
		202N/NGP	'W2'	
22	ADJUSTABLE STOP	475/ZERO INT'L	'Y1'	'M'
		170N/NGP	'Y2'	

PERIMETER SEAL INSTALLATION DETAILS



- 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

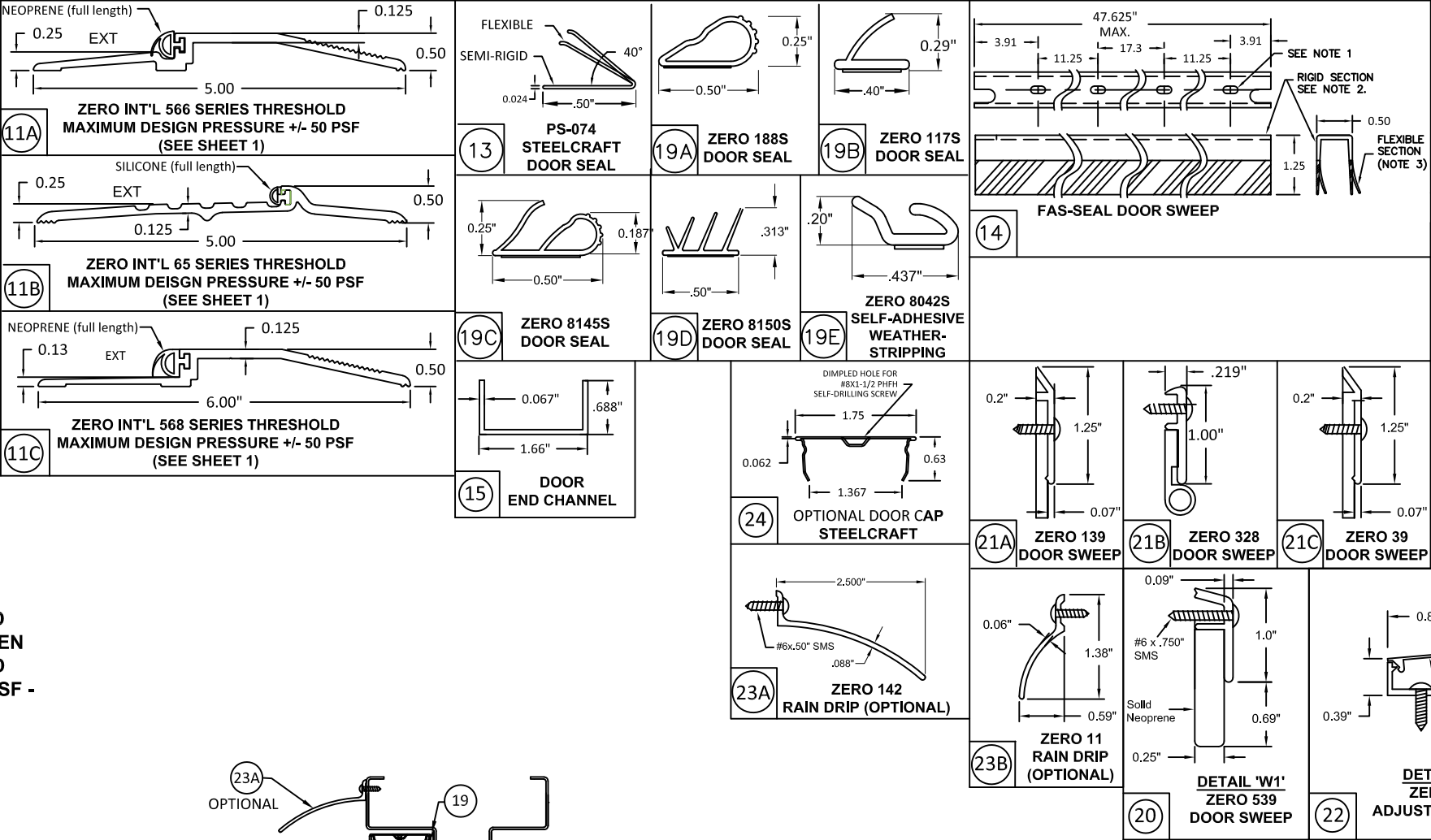
PERIMETER SEAL INSTALLATION DETAILS



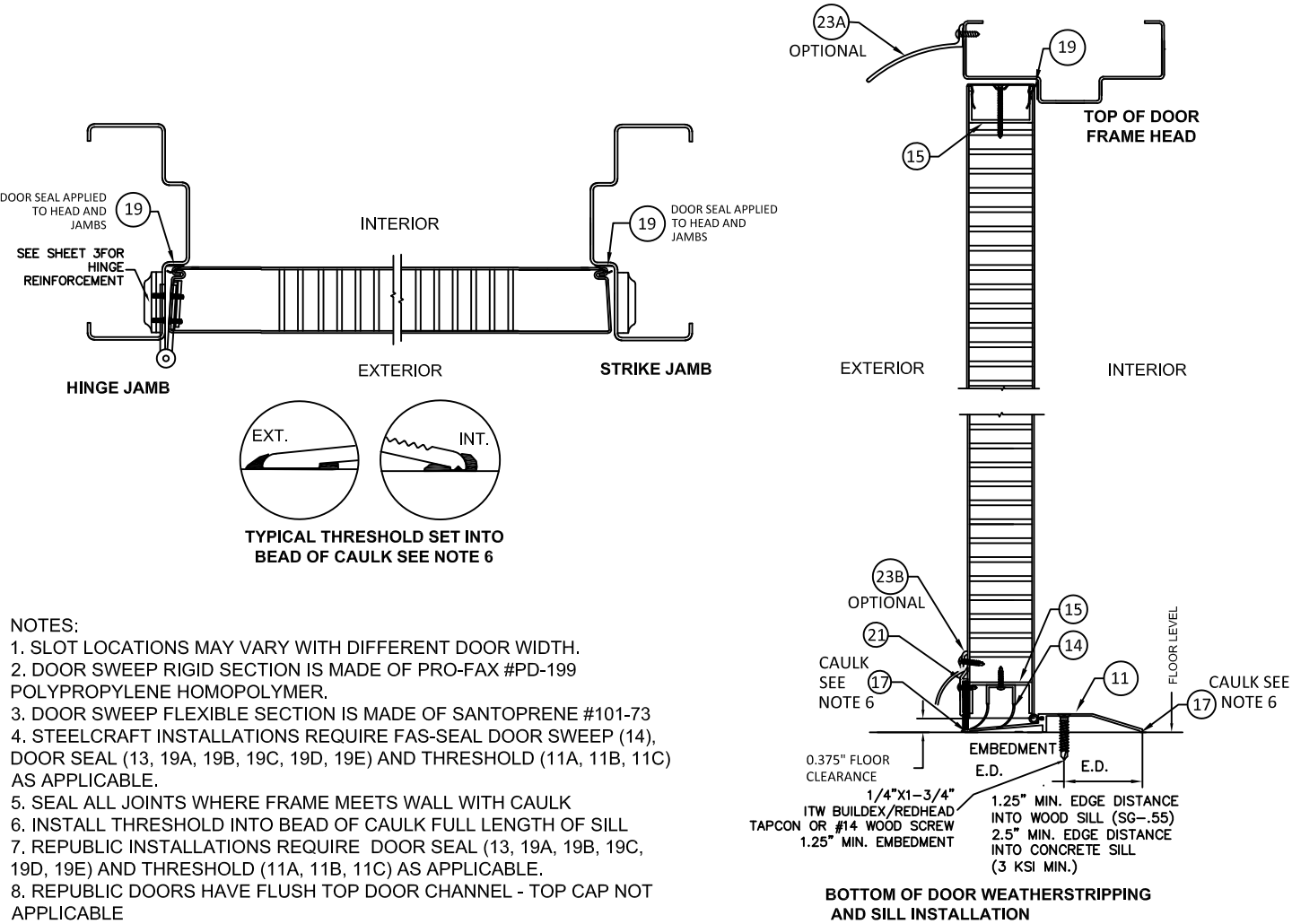
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032	
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL COMMERCIAL STEEL DOORS UP TO 4'0\"X8'0\" SINGLE OPENING OUTSWING DOOR AND FRAME GASKETING AND PERIMETER SEAL HARDWARE	
DRAWN JPD	DATE 08/21/13	SIZE FLAT	REV E
CHECKED		DWG NO. FMA-SF	
APPROVED		SCALE: NTS	
ENG. APPVL X	08/21/13	AUTOCAD	
		FL16740	
		SHEET 12 of 16	

TABLE 3 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	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
24	OPTIONAL TOP CAP		STEELCRAFT

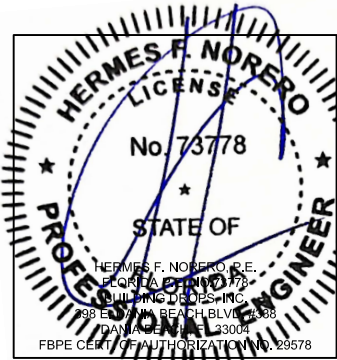


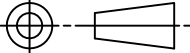
**ZERO INT'L 566, 65 AND 568 THRESHOLD
GASKETING SYSTEM REQUIREMENTS WHEN
WATER INFILTRATION IS NOT REQUIRED
MAXIMUM DESIGN PRESSURE RATING 50 PSF -
MAXIMUM DOOR SIZE 4'-0" X 8'-0" (SEE
ELEVATION SHEET 1)**

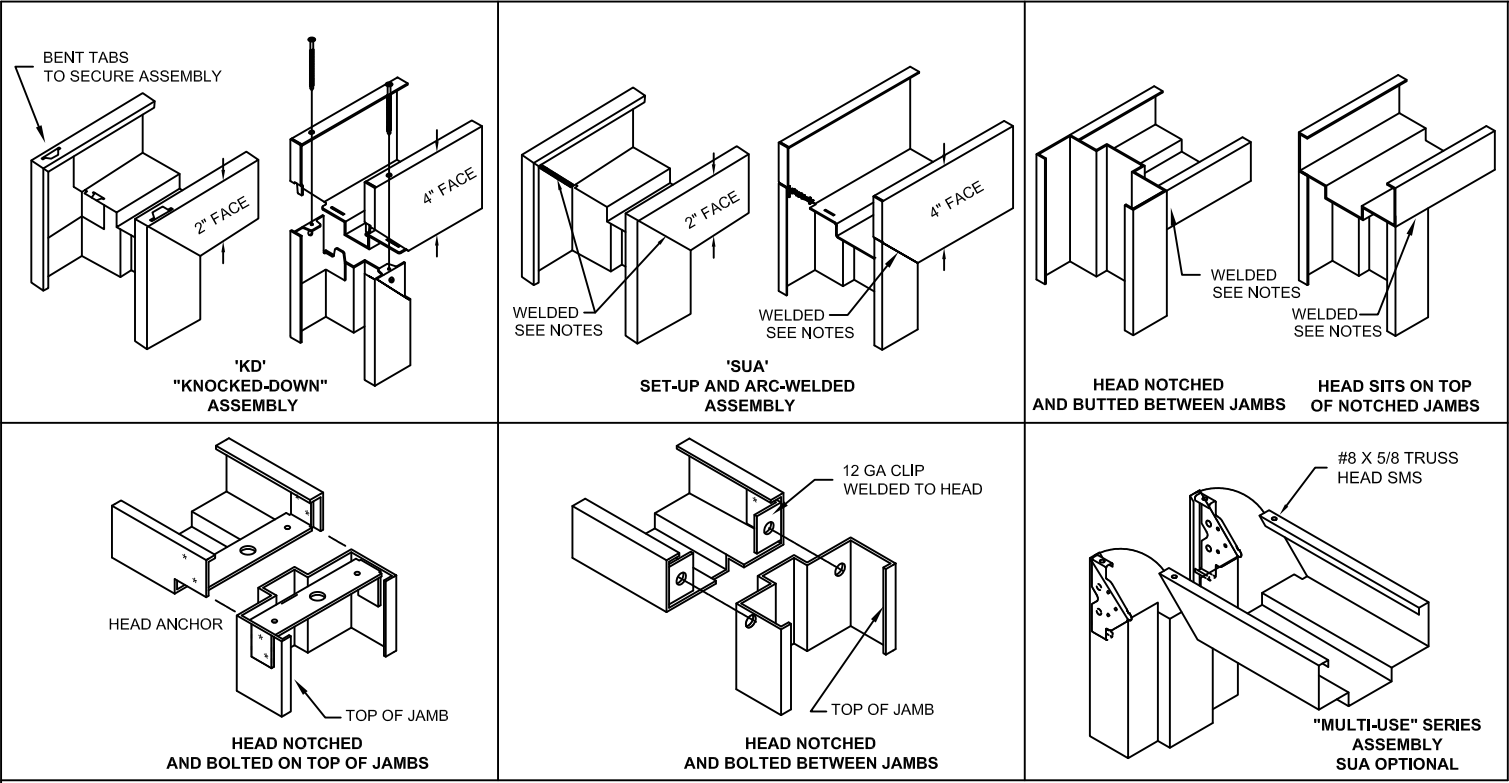


NOTES:

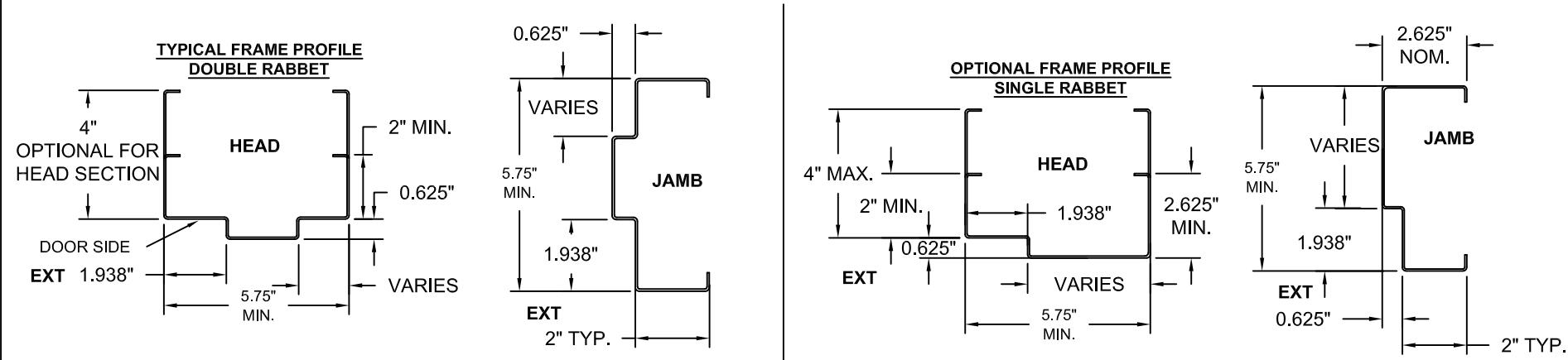
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
4. STEELCRAFT INSTALLATIONS REQUIRE FAS-SEAL DOOR SWEEP (14), DOOR SEAL (13, 19A, 19B, 19C, 19D, 19E) AND 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



BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
					
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL			
DRAWN YMF	DATE 05/20/07	COMMEERCIAL STEEL DOORS UP TO 4'0"X8'0" SINGLE OPENING OUTSWING DOOR AND FRAME GASKETING AND PERIMETER SEAL HARDWARE.			
CHECKED					
APPROVED		SIZE	FLAT	DWG NO.	REV
				FMA-SF	E
ENG. APPVL JPD	10/11/07	SCALE:	NTS	AUTOCAD	FL16740 SHEET 13 of 16



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



AVAILABLE DOOR PANEL CONFIGURATIONS

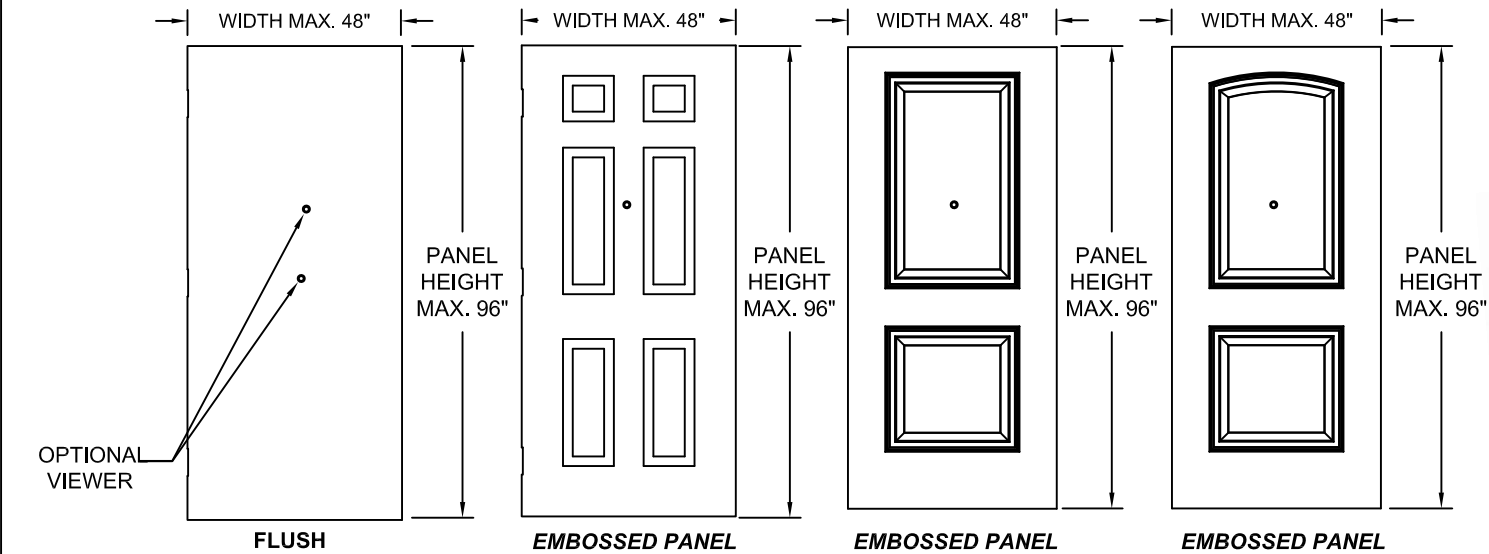


TABLE 6. AVAILABLE STEELCRAFT H-SERIES DOOR CONFIGURATIONS

STEELCRAFT H-SERIES DOOR CORE MATERIAL PER SHT.7	MAXIMUM OPENING SIZE		SKIN MATERIAL	
	WIDTH	HEIGHT	DESCR.	GA./MIN. THK
HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	4'-0"	8'-0"	CRS GALV	16/.053" 14/.067"
HONEYCOMB POLYSTYRENE POLYURETHANE	4'-0"	8'-0"	STAINLESS STEEL	16/.053"

TABLE 7. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

FRAME SERIES	JAMB DEPTH	MAXIMUM OPENING SIZE		MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
F	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067" 12/.099"
				STAINLESS STEEL	16/.053"
MU	5.75" MIN.	4'-0"	8'-0"	CRS/HRS GALV	16/.053" 14/.067"

TABLE 8. STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSi	TENSILE KSi
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV.	A653/A924	MIN. 42.6	MIN. 73.2
SS:304,316	A240/A480		

NOTES:
1. DOOR CONSTRUCTION
1.1. NOMINAL DOOR THICKNESS - 1 3/4"
1.2. MAXIMUM DOOR SIZE IS 4' X 8' FOR SINGLE OPENING
1.3 FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 8.
1.4 DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN PRESSURE OF +/-75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION (MAX 2 PER DOOR)

2. FRAME CONSTRUCTION
2.1. NOMINAL JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
2.2. FRAMES AVAILABLE (SEE TABLE 7)
2.3 FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 8.

BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL			
DRAWN YMF	DATE 05/20/07	STEELCRAFT FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS			REV E
CHECKED					
APPROVED		SIZE	FLAT	DWG NO.	
ENG. APPVL JPD	10/12/07	FMA-SF			
SCALE:		NTS	AUTOCAD	FL16740	SHEET 14 OF 16

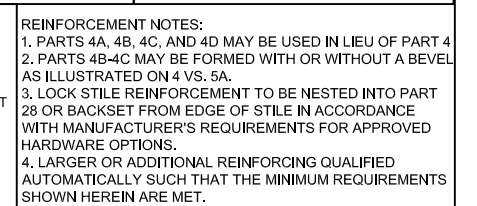
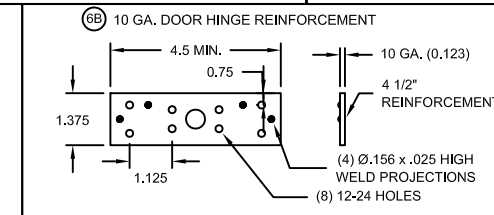
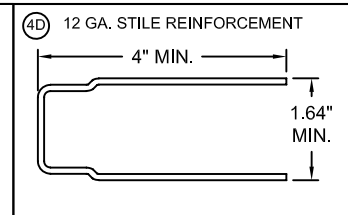
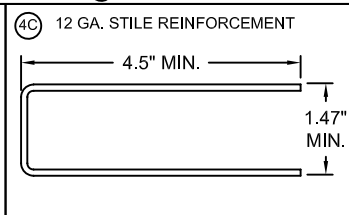
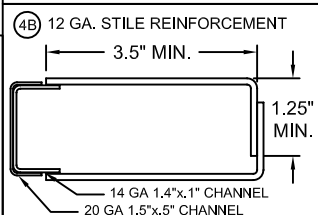
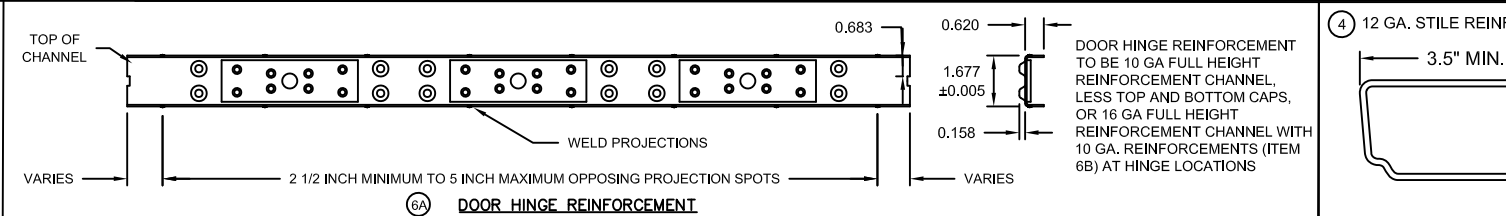
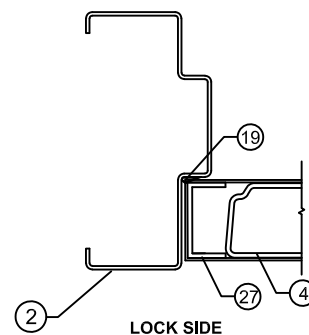
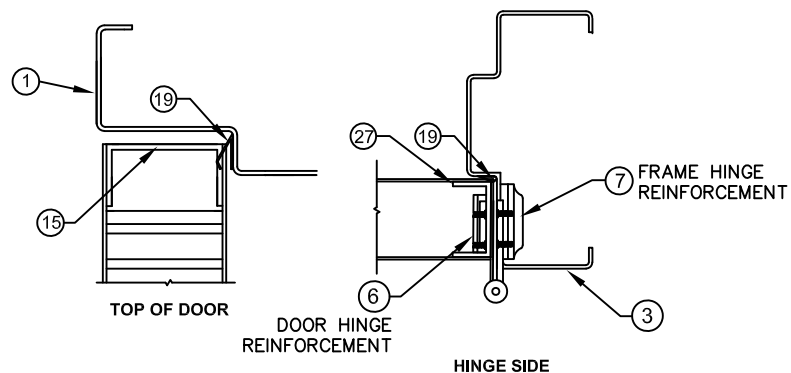
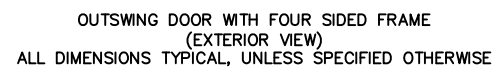
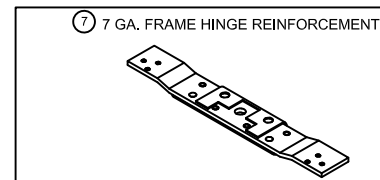
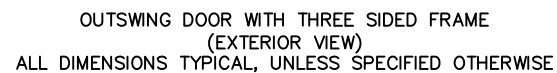
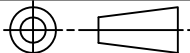
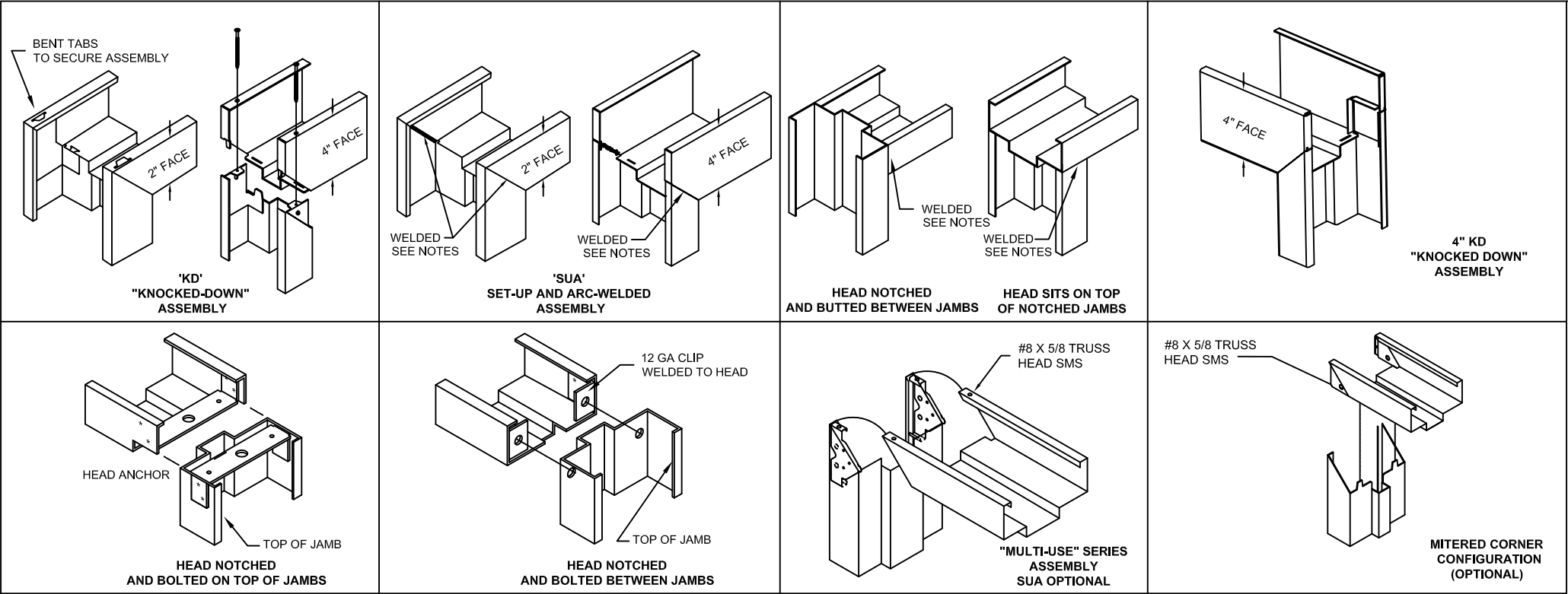


TABLE 9(SEE TABLE 2, SHEET 2 FOR OPTION 1 CONFIGURATION)

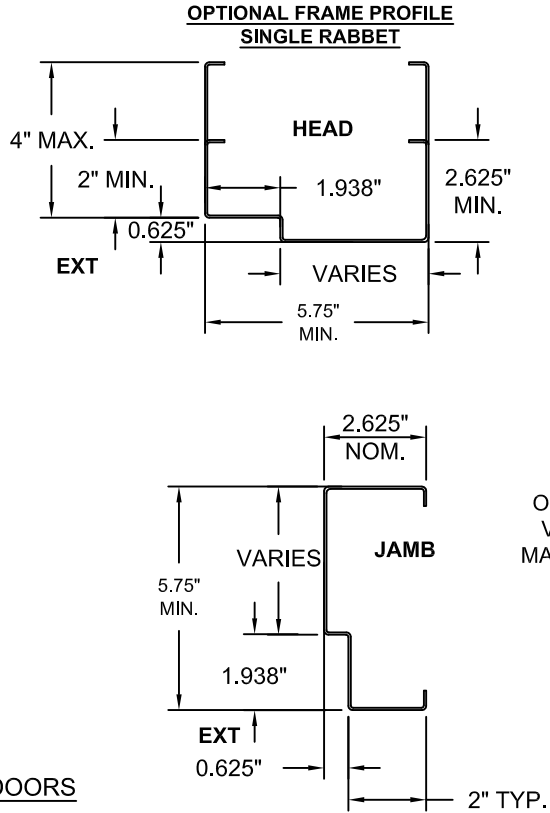
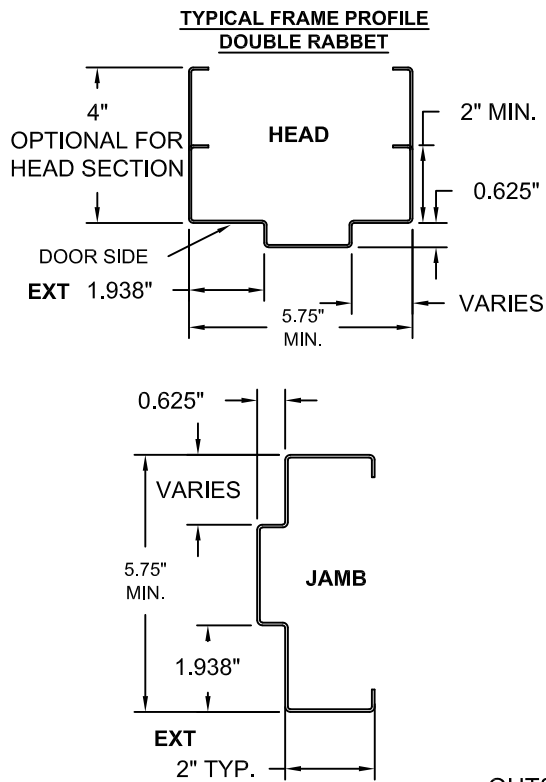
	QUANTITY	DESCRIPTION		MATERIAL	SIZE
1	1	HEAD SEE SHT 16		.053" MIN. STL	MAX. 100"
2	1	SILL JAMB SEE SHT 16		.053" MIN. STL	MAX. 100" HEIGHT.
3	1	HINGE JAMB SEE SHT 16		.053" MIN. STL	MAX. 102" HEIGHT.
4	1	LOCK SIDE REINFORCEMENT CHANNEL		.093" MIN. STL	3.5 X 93.44 MAX
6	NOTE 3.	HINGE REINFORCEMENT DOOR		.167" MIN. STL.	1.23" X 9.19" MIN.
6A	NOTE 3.	HINGE REINFORCEMENT DOOR		.053" MIN. STL.	1.677" X FULL LENGTH - END CHNLS
6B	NOTE 3.	HINGE REINFORCEMENT DOOR		.123" MIN. STL.	1.375" X 4.5" MIN.
7	NOTE 3.	HINGE REINFORCEMENT FRAME		.167" MIN. STL.	1.50" X 9.19" MIN.
8	NOTE 3.	4.5" OR 5" MIN. BUTT HINGES		.134 MIN.	(8) #12-24 MS PER HINGE
		OPTIONAL CONTINUOUS HINGE (SEE SHT.4)		.067" MIN. STL/.11 ALUM	MAX. 95"
9	1	CORE MATERIAL (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			
11	1	THRESHOLD SILL W/BUMPER GASKET (SEE SHT.12 & 13)			48"MAX.
		1) ZERO 11A-T1)566A, 11B-T3)65A, 11C)568		ALUM. 6063 T5	
		2) NAT'L GUARD T2)950A, T4)803V		ALUM. 6063 T5	
12	NOTE 2.	JAMB ANCHOR ASTM A924		SEE SHEETS 6-11	
13	1	PSO74 WEATHER STRIPPING		TPE	MAX. 24'
14	1	FAS-SEAL DOOR SWEEP		TPE	MAX. 47.66"
15	2	END CHANNEL ASTM A924 (16 GAUGE-FLUSH OR INVERTED)		.053" MIN. STL.	.62" X 1.66" X 48" MAX.
16	1	STRIKE JAMB SEE SHT 16 ASTM A1008		.053" MIN. STL	MAX. 102" HEIGHT.
17	AS NEEDED	BUTYL RUBBER, SILICONE OR LATEX W/ SILICONE			
18	1	DOOR SLAB (16 OR 14 GA)		SEE SHEET 16	48" X 96" MAX.
19	1	BY ZERO INT'L SEAL A)188S, B)117S, C)8145S, D)8150S, E)8042S		SILICONE	MAX. 24'
		BY NGP DOOR SEAL No.5020			
20	1	BY ZERO INT'L DOOR SWEEP No.539		TPE	MAX. 96"
		BY NGP DOOR SWEEP No.202N			
21	1	BY ZERO INT'L DOOR SWEEP A)139, B) 328, C)39		SEE SHEETS 12 & 13	MAX. 48"
		BY NGP DOOR SWEEP No.200N			
22	1	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		BY ZERO INT'L RAIN DRIP 142		ALUMINUM	MAX. 100"
23B	1	BY ZERO INT'L RAIN DRIP 11		ALUMINUM	MAX. 48"
24		TOP CAP GALV. A60		.020" MIN. STL.	0.5" X 1.76" X 48" MAX.
25	1	STRIKE REINFORCEMENT STRIKE JAMB		.053" MIN. STL	1.31" X 8.38." MIN.
26	VARIES	IVES DOOR VIEWER U698/698			
27	2	EDGE CHANNEL (16 GAUGE MIN)		.053" MIN. STL.	.62" X 1.66" X 47.66"
28	NOTE3,SHT2	HINGE REINFORCEMENT FRAME		.149" MIN. STL.	1.23" X 9.19" MIN.



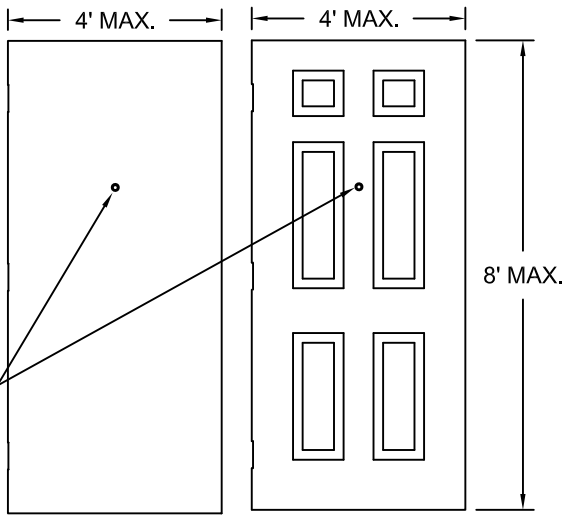
BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032				
						
THIRD ANGLE PROJECTION		TITLE FLORIDA BUILDING CODE PRODUCT APPROVAL				
DRAWN	DATE	REPUBLIC DOORS AND FRAMES UP TO 4'0"X8'0" SINGLE OPENING OUTSWING THREE AND FOUR SIDED FRAMES TESTED TO TAS 201, 202, 203 HVHZ & ASTM E1886, E1996				
JPD	08/21/13					
CHECKED						
APPROVED		SIZE	FLAT	DWG NO.	FMA-SF	REV E
ENG. APPVL	08/21/13	SCALE:	NTS	AUTOCAD	FL16740	SHEET 15 OF 16



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



AVAILABLE DOOR PANEL CONFIGURATIONS



- NOTES:
- DOOR CONSTRUCTION
 - NOMINAL DOOR THICKNESS - 1 3/4"
 - MAXIMUM DOOR SIZE IS 4' X 8' FOR SINGLE OPENING
 - FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 12.
 - DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN PRESSURE OF +/-75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION. MAX. 2 PER DOOR
 - FRAME CONSTRUCTION
 - NOMINAL JAMB DEPTH - 5 3/4", STOP HEIGHT - 5/8"
 - FRAMES AVAILABLE (SEE TABLE 11)
 - FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 12.

TABLE 12. STEEL MECHANICAL PROPERTIES

MATERIAL	ASTM REF.	YIELD KSi	TENSILE KSi
CRS	A1008	MIN. 30.1	MIN. 44.7
HRS	A1011		
GALV.	A653/A924		
SS:304,316	A240/A480	MIN. 31.2	MIN. 73.2

TABLE 10. AVAILABLE REPUBLIC DOOR CONFIGURATIONS

REPUBLIC DOOR SERIES	DOOR CORE MATERIAL PER SHT.7	MAXIMUM OPENING SIZE		SKIN MATERIAL	
		WIDTH	HEIGHT	DESCR.	GA./MIN. THK
DL	HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED	4'-0"	8'-0"	CRS. GALV.	16/.053"
DE		4'-0"	8'-0"	CRS. GALV.	16/.053" 14/.067"

TABLE 11. AVAILABLE REPUBLIC FRAME CONFIGURATIONS

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



BEND RADIUS		ALLEGION-SCHLAGE LOCK COMPANY, LLC 11819 N. PENNSYLVANIA STREET CARMEL, IN 46032			
THIRD ANGLE PROJECTION		TITLE: FLORIDA BUILDING CODE PRODUCT APPROVAL			
DRAWN YMF	DATE 05/20/07	REPUBLIC FRAME PROFILE, CORNER DETAILS AND DOOR FRAME MATERIAL, AND SIZE OPTIONS			
CHECKED		SIZE	FLAT	DWG NO. FMA-SF	REV E
APPROVED		SCALE: NTS AUTOCAD FL16740 SHEET 16 OF 16			
ENG. APPVL JPD	10/12/07				