

SERIES FD650 NON-IMPACT RESISTANT FRENCH DOOR & SIDELITE

1. GLAZING OPTIONS:
A. 3/16" TP
B. 7/8" IG (3/16" TP Cap - Airspace - 3/16" TP)
C. 7/8" LIG (3/16" TP Cap - Airspace - 3/16" AN - .090" PVB - 3/16" AN)
2. DESIGN PRESSURES: (SEE TABLES 1, 2 AND 3, SHEET 2)
A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
3. CONFIGURATIONS: X, O, XX, XO, OX, XXX, XXO, OXX, OXO, XXXX, XXXO, OXXX, OR OXXO WHERE O REPRESENTS EITHER THE NARROW JAMB OR FULL JAMB SIDE LITE. ANY TWO ADJACENT X UNITS CAN BE EITHER TWO SINGLE X DOORS OR A DOUBLE XX DOOR, BOTH USING EITHER THE STANDARD OR THE LOW-RISE SILL. THE FRENCH DOOR ASSEMBLY BEAM IS USED TO ASSEMBLE X, XX, AND XO UNITS TO MAKE THE ABOVE CONFIGURATIONS.
4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE REQUIREMENTS SEE SHEETS 9 THROUGH 11.
5. SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
6. SEALANTS: INSTALLATION SCREWS, FRAME AND PANEL CORNERS SEALED WITH CLEAR COLORED SEALANT. VERTICAL ASSEMBLY BEAM SEAM-SEALED ON THE INTERIOR AND EXTERIOR WITH CONTRACTOR'S SEALANT.
7. REFERENCES: TEST REPORTS FTL-4450, FTL-4451, FTL-4452, FTL-4921 AND FTL-5967.
ANSI/AF&PA NDS FOR WOOD CONSTRUCTION
ADM ALUMINUM DESIGN MANUAL
8. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

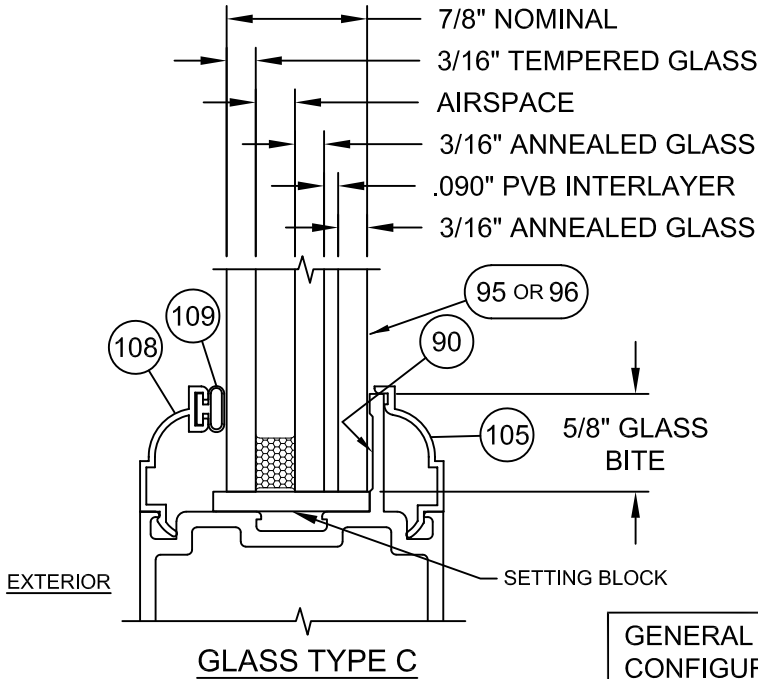
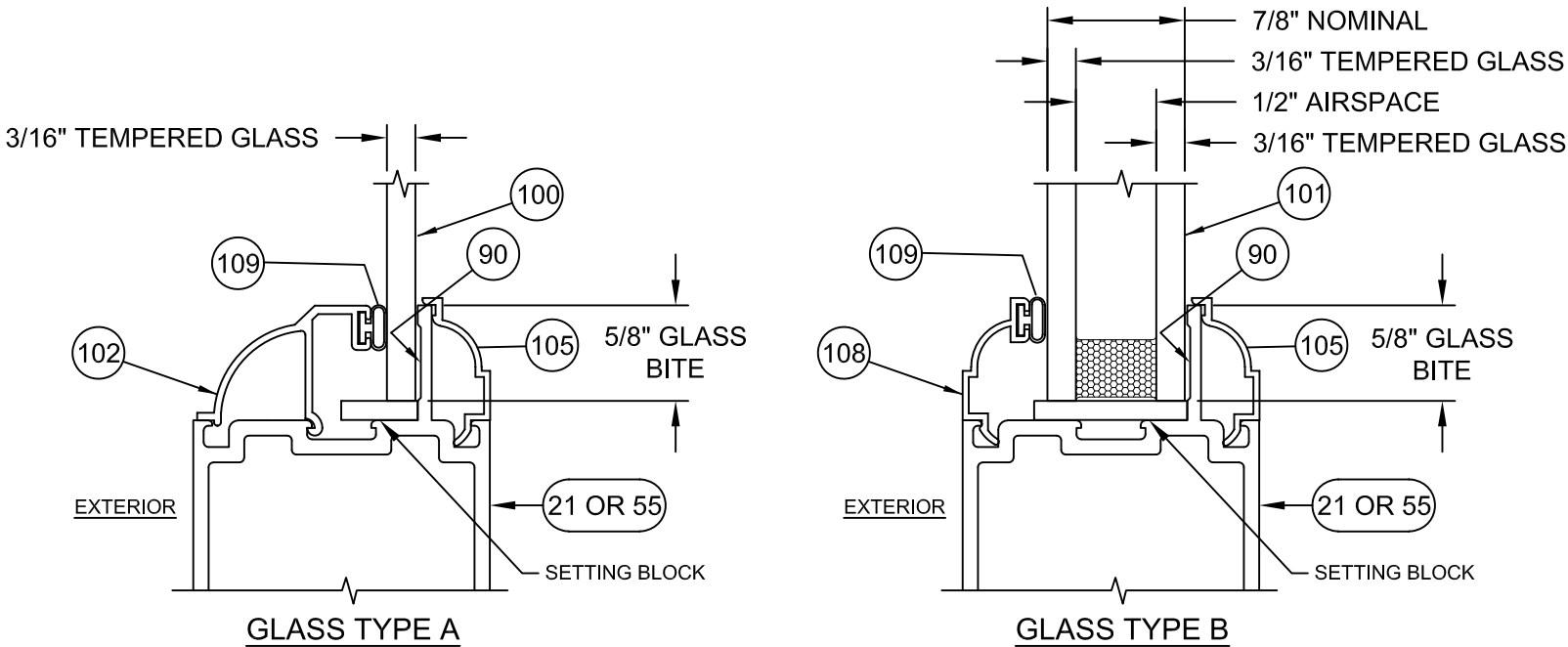
DESIGN PRESSURE RATING	IMPACT RATING
SEE TABLES 1, 2 & 3 ON SHEET 2	NOT RATED FOR MISSILE IMPACT RESISTANCE

FLORIDA PRODUCT APPROVAL #30739

TABLE A:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	All	Southern Pine (SG = 0.55)	9/16"	1-3/8"
		All	6063-T5 Aluminum	3/8"	1/8"
		All	Steel, A36	3/8"	0.060"
		All	Steel Stud, A1003 Gr. 33	3/8"	0.0451" (18 Ga.)
B	1/4" DeWalt UltraCon+®	All	Concrete (min. 3 ksi)	2"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	2"	1-1/4"
C	1/4" 410 SS Elco/DeWalt CreteFlex®	All	Concrete (min. 3.35 ksi)	1-3/4"	1-3/4"
		Jamb	Hollow Block (ASTM C90)	1-3/4"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1-3/8"

- 1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE OF THE ANCHOR GROUPS ABOVE, CHOOSE THE ANCHOR GROUP OF THE LOWEST LETTER FOR ALL TABLES IN THIS APPROVAL.
- 2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
- 3) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.



PVB = KURARAY TROSIFOL PVB
INTERLAYER BY KURARAY AMERICA, INC.
AN = ANNEALED
TP = TEMPERED

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UPDATED TITLE BLOCK.
JR - 10/10/23

1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)480-1600	COPYRIGHT © 2023 PGT INDUSTRIES, INC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	Date	02/03/22	By ERIN KOSS	FD650-FPA	Rev.	A
		Title				Desc.	
		GENERAL NOTES & GLAZING				FD-650	
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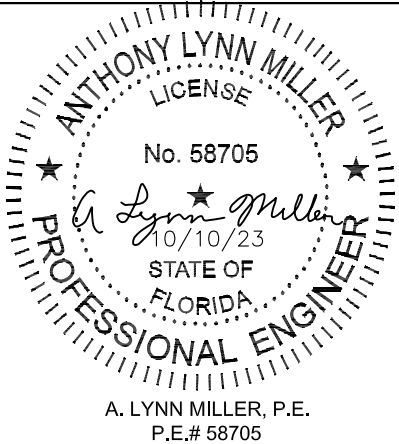


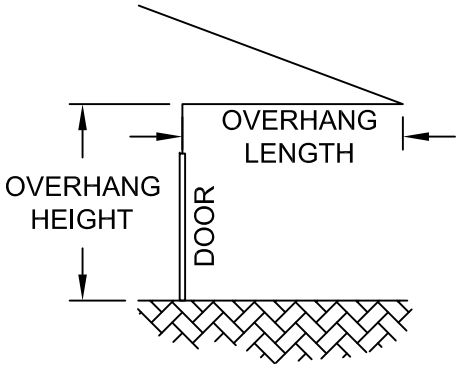
TABLE 1: OUTSWING DOOR DESIGN PRESSURE									
CONFIG.	GLASS TYPES A, B & C								
	DOOR WIDTH	DOOR HEIGHT							
		6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"			
X	2 ⁰ 25"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -139.5			
X	27"	+100.0 -145.0	+100.0 -145.0	+100.0 -144.2	+100.0 -136.9	+100.0 -130.3			
X	29"	+100.0 -145.0	+100.0 -143.4	+100.0 -135.7	+100.0 -128.7	+100.0 -122.4			
X	2 ⁶ 31"	+100.0 -144.2	+100.0 -135.8	+100.0 -128.3	+100.0 -121.6	+100.0 -115.6			
X	2 ⁸ 33"	+100.0 -126.7	+100.0 -126.7	+100.0 -122.0	+100.0 -115.5	+100.0 -109.7			
X	35"	+100.0 -112.2	+100.0 -112.2	+100.0 -112.2	+100.0 -110.2	+100.0 -104.6			
X	3 ⁰ 37"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0			
XX	4 ⁰ 47 3/4"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -139.5			
XX	51 3/4"	+100.0 -145.0	+100.0 -145.0	+100.0 -144.2	+100.0 -136.9	+100.0 -130.3			
XX	55 3/4"	+100.0 -145.0	+100.0 -143.4	+100.0 -135.7	+100.0 -128.7	+100.0 -122.4			
XX	5 ⁰ 59 3/4"	+100.0 -144.2	+100.0 -135.8	+100.0 -128.3	+100.0 -121.6	+100.0 -115.6			
XX	5 ⁴ 63 3/4"	+100.0 -126.7	+100.0 -126.7	+100.0 -122.0	+100.0 -115.5	+100.0 -109.7			
XX	67 3/4"	+100.0 -112.2	+100.0 -112.2	+100.0 -112.2	+100.0 -110.2	+100.0 -104.6			
XX	6 ⁰ 71 3/4"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0			

TABLE 2: FULL JAMB SIDE LITE DESIGN PRESSURE							
GLASS TYPES A, B & C							
SIDE LITE WIDTH	SIDE LITE HEIGHT						
	6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"		
21 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0		
24 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -144.9	+100.0 -137.9		
30 11/16"	+100.0 -142.9	+100.0 -135.3	+100.0 -127.8	+100.0 -121.1	+100.0 -115.1		
33 11/16"	+100.0 -118.6	+100.0 -118.6	+100.0 -118.6	+100.0 -112.5	+100.0 -106.8		
36 11/16"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0		

TABLE 3: NARROW JAMB SIDE LITE DESIGN PRESSURE						
GLASS TYPES A, B & C						
SIDE LITE WIDTH	SIDE LITE HEIGHT					
	6 ⁸ - 79 3/4"	7 ⁰ - 83 3/4"	87 3/4"	91 3/4"	8 ⁰ - 95 3/4"	
10 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
13 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
16 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
19 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
21 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	
24 11/16"	+100.0 -145.0	+100.0 -145.0	+100.0 -145.0	+100.0 -144.9	+100.0 -137.9	
30 11/16"	+100.0 -142.9	+100.0 -135.3	+100.0 -127.8	+100.0 -121.1	+100.0 -115.1	
33 11/16"	+100.0 -118.6	+100.0 -118.6	+100.0 -118.6*	+100.0 -112.5	+100.0 -106.8	
36 11/16"	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100.0 -100.0	+100** -100**	

TABLE 3: GLASS TYPE C HAS REDUCED DESIGN PRESSURES FOR THE FOLLOWING:

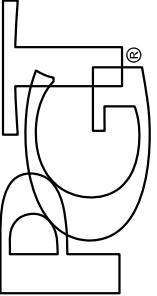
- * +100.0/-117.7 (87-3/4" x 33-11/16")
** +98.7/-98.7 (95-3/4" x 36-11/16")



- NOTES:
- IF USING THE OPTIONAL LOW-RISE SILL (PART 10, SHEET 7 OF 11), THE OVERHANG LENGTH MUST BE GREATER THAN OR EQUAL TO THE OVERHANG HEIGHT (SEE DIAGRAM). IF NOT, THE MAXIMUM POSITIVE (+) DESIGN PRESSURE IS LIMITED TO +50.0 PSF FOR ALL STYLES AND SIZES OF THE DOOR AND ANY ADJOINING SIDELITES.
 - FOR COMBINED UNITS, THE LOWEST DESIGN PRESSURE OF THE SIDELITE AND THE DOOR GOVERNS THE OVERALL ASSEMBLY DESIGN PRESSURE.

1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)480-1600

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REGISTRATION #29296

ALUM. FRENCH DOOR & SIDELITES (NI)

DESIGN PRESSURES

FD-650

2 OF 11

FD650-FPA

ERIN KOSS

02/03/22

A

Rev.

No.

DWG

Sheet

By

Date

Title

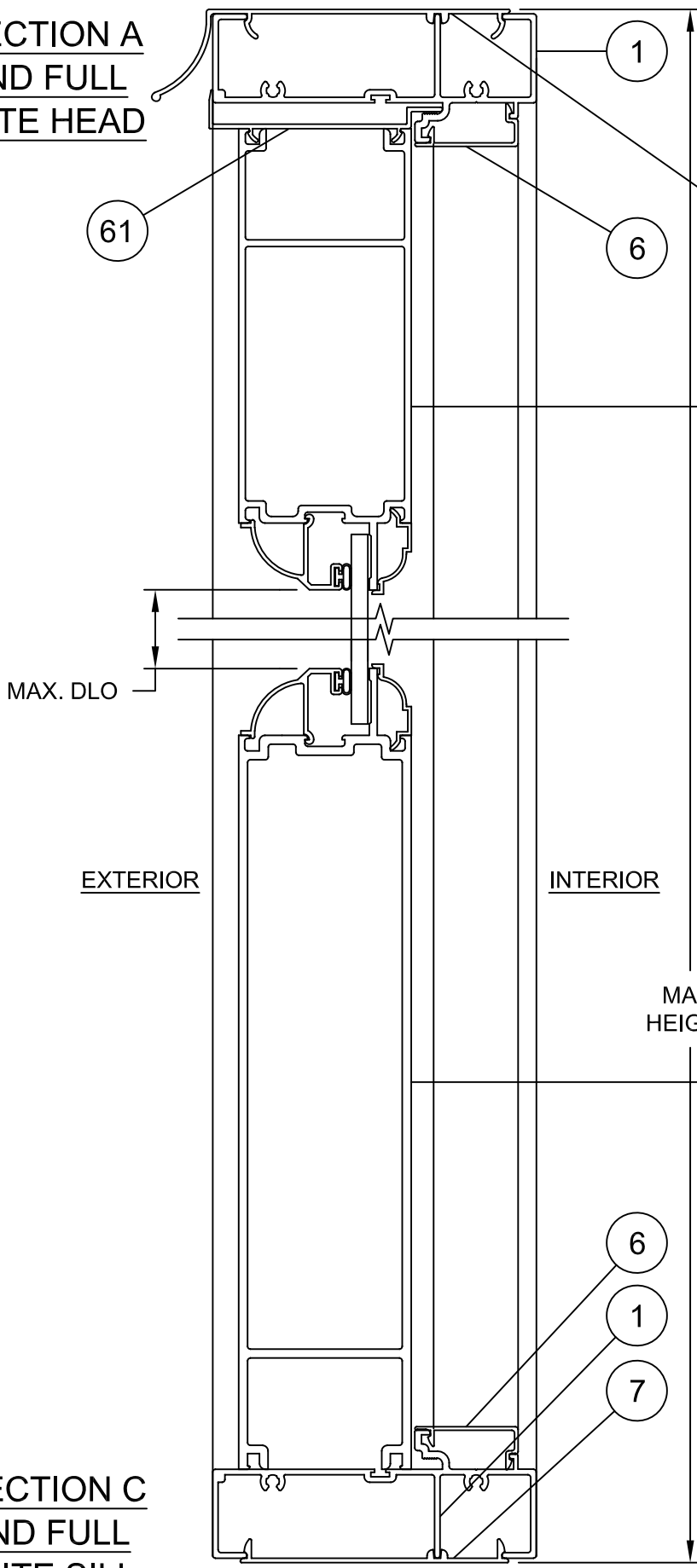
Desc.

Series

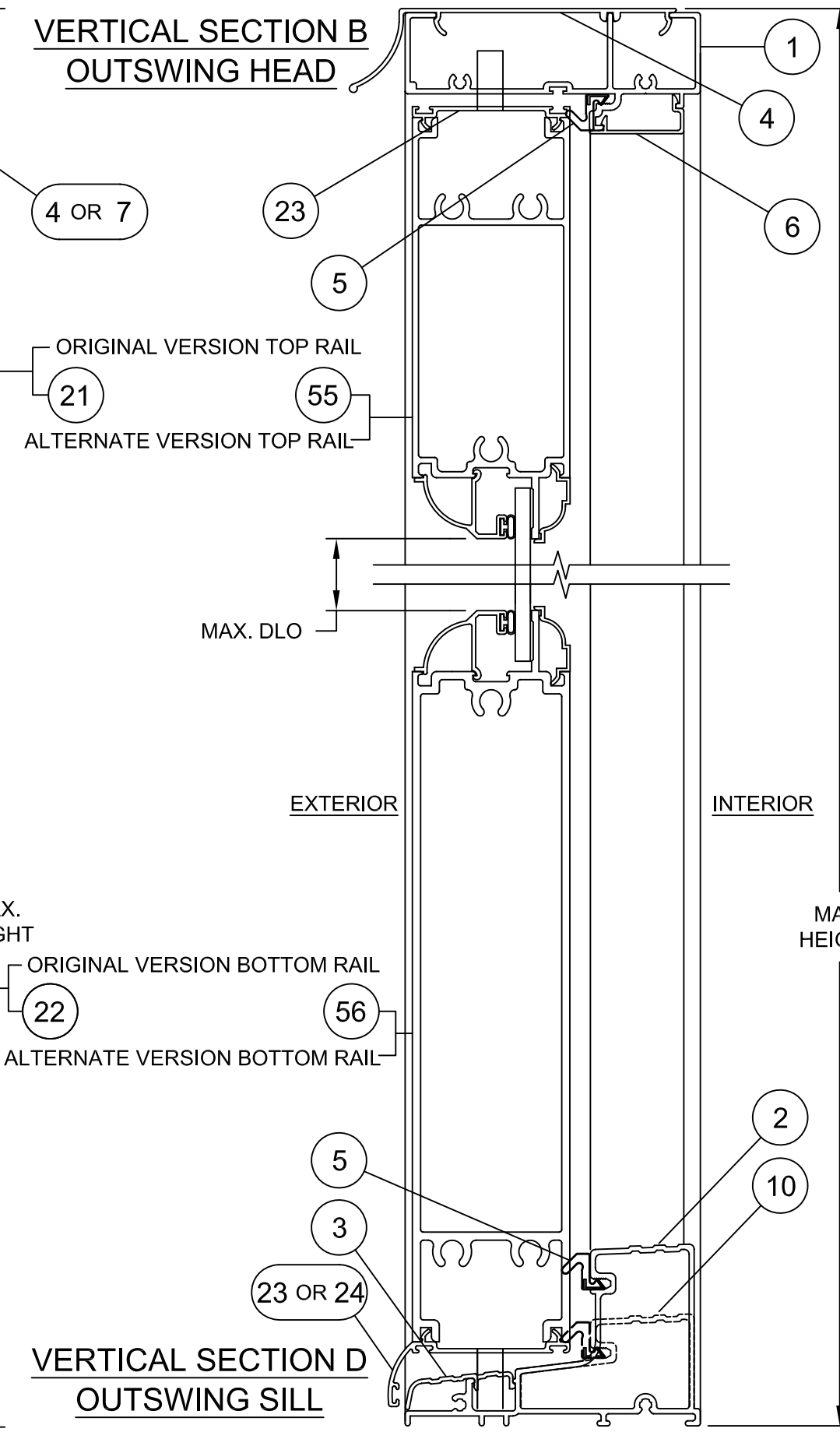
ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

VERTICAL SECTION A
NARROW AND FULL
JAMB SIDE LITE HEAD

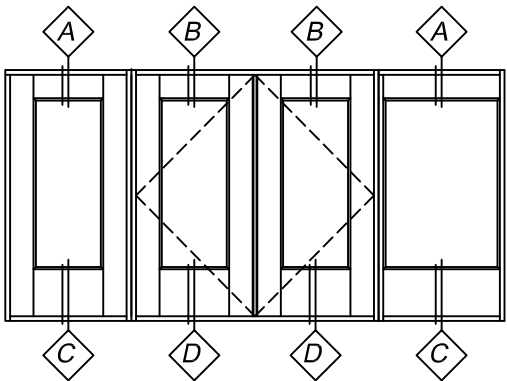


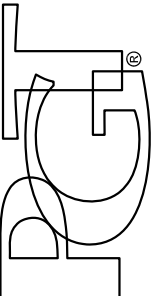
VERTICAL SECTION B
OUTSWING HEAD

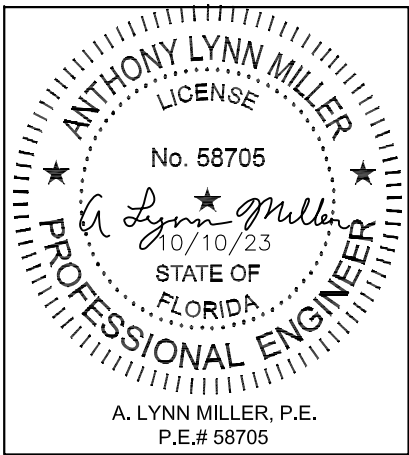


VERTICAL SECTION C
NARROW AND FULL
JAMB SIDE LITE SILL

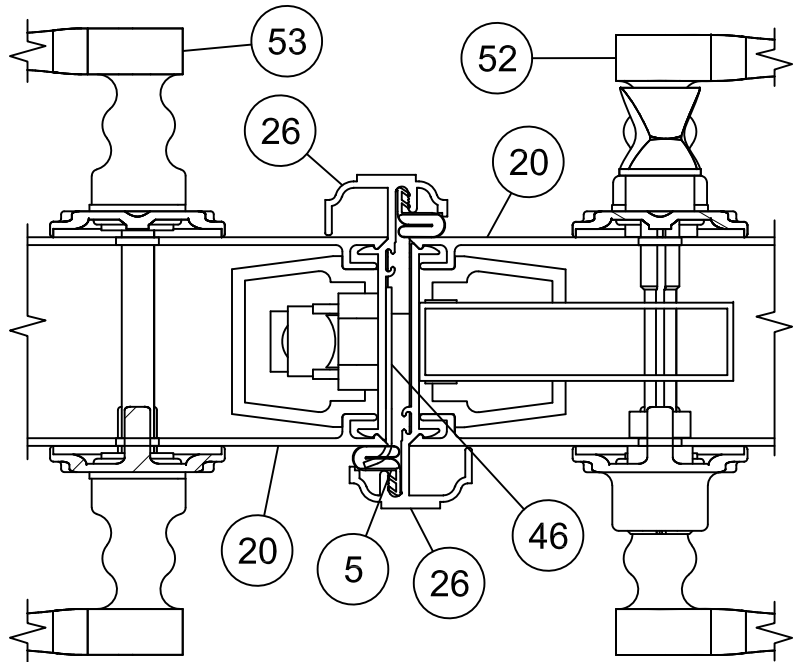
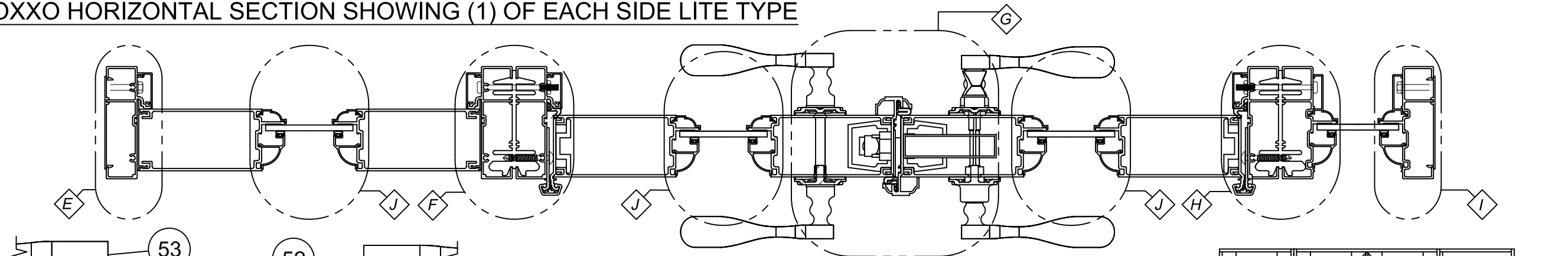
VERTICAL SECTION D
OUTSWING SILL



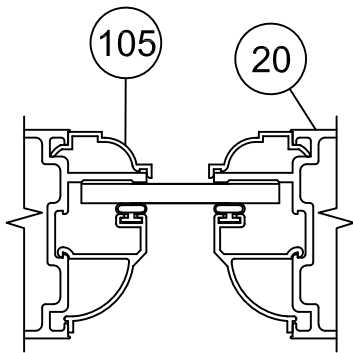
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REGISTRATION #29296		ALUM. FRENCH DOOR & SIDELITES (NI)		Date			
VERTICAL SECTIONS		By		ERIN KOSS			
FD-650		4 OF 11		DWC		FD650-FPA	
Sheet				No.		Rev.	
Series		Desc.		Title		A	



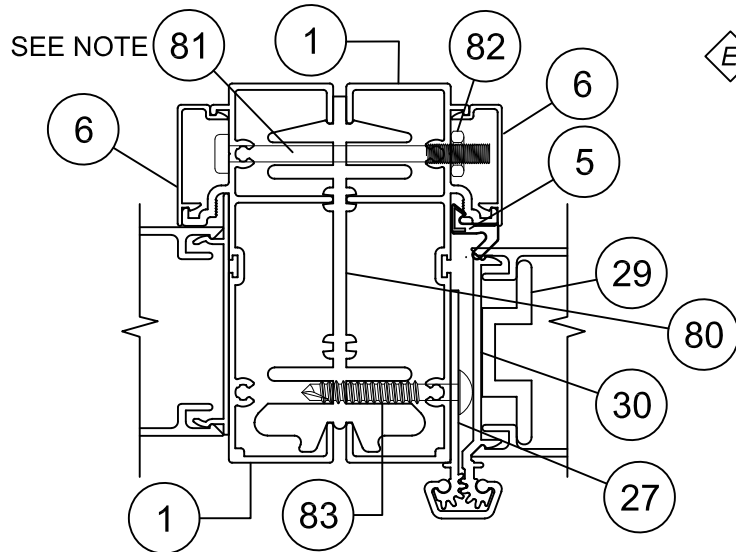
OX XO HORIZONTAL SECTION SHOWING (1) OF EACH SIDE LITE TYPE



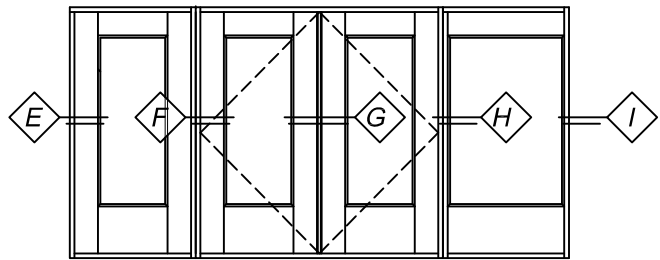
DETAIL G STILES AT ASTRAGAL



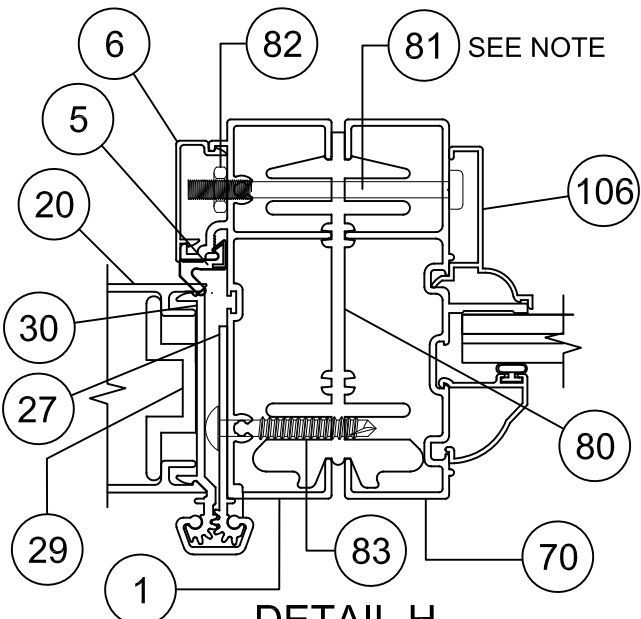
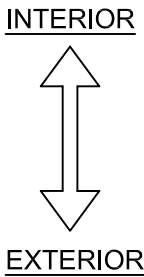
DETAIL J
SLAB AT
GLASS BED



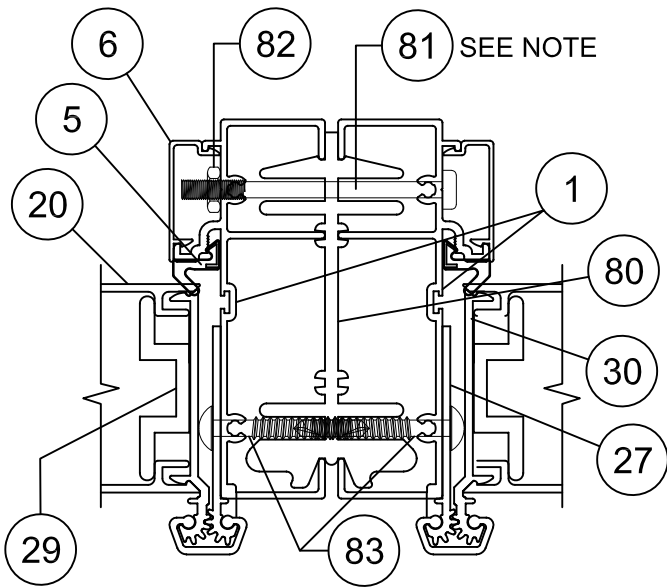
DETAIL F
FULL JAMB SIDE LITE
(AT HINGE JAMB)



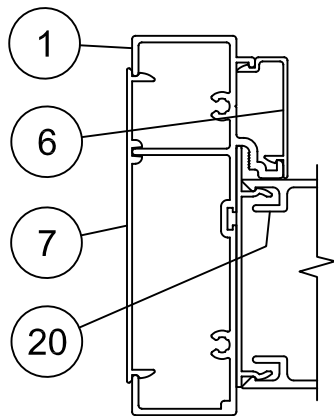
NOTE: ASSEMBLY HARDWARE QTY (3), 11"
FROM TOP & BOTTOM AND ONE AT MIDSPAN



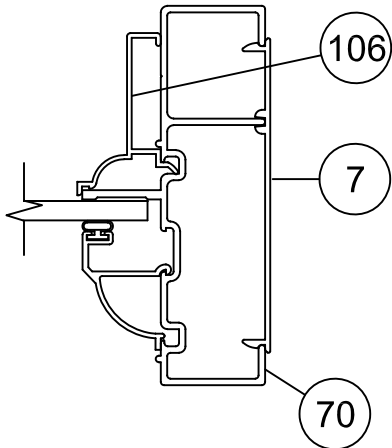
DETAIL H
NARROW JAMB SIDE LITE
(AT HINGE JAMB)



DETAIL K
HINGE JAMB TO HINGE JAMB
(NOT SHOWN ABOVE)

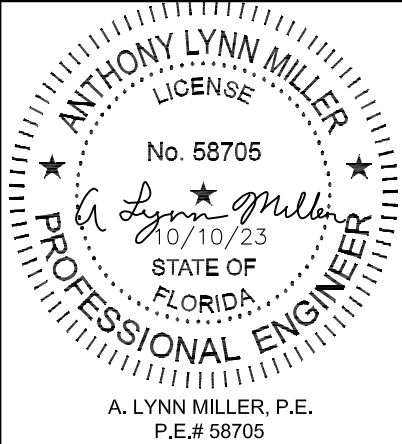


DETAIL E
JAMB, FULL JAMB
SIDE LITE



DETAIL I
JAMB, NARROW
JAMB SIDE LITE

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PGT® REGISTRATION #29296		PGT® REGISTRATION #29296		PGT® REGISTRATION #29296	
ALUM. FRENCH DOOR & SIDELITES (NI)		ALUM. FRENCH DOOR & SIDELITES (NI)		ALUM. FRENCH DOOR & SIDELITES (NI)	
HORIZONTAL SECTIONS		HORIZONTAL SECTIONS		HORIZONTAL SECTIONS	
FD-650		FD-650		FD-650	
5 OF 11		5 OF 11		5 OF 11	
FD650-FPA		FD650-FPA		FD650-FPA	
A		A		A	



A. LYNN MILLER, P.E.
P.E.# 58705

FD650 DOOR(S)

ITEM	DWG#	DESCRIPTION	PGT#
FRAME KIT PARTS			
1	8006	FRAME - HEAD & HINGE JAMB	68006
2	8003C	OUT-SWING SILL	68003A
3	8004C	OUT-SWING SILL COVER	68004C
4	8008	DRIP CAP	68008
5	-----	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
9	8032	ASTRAGAL END SEAL	48032
10	8058A	OUT-SWING SILL (LOW RISE)	48058
DOOR PANEL			
5	-----	HEAD, SILL & JAMB WEATHERSTRIP (SCHLEGAL)	U83337T8500
20	8012	STILE	68012
21	8014	TOP RAIL, (THREADED ROD DESIGN)	68014
22	8013	BOTTOM RAIL, (THREADED ROD DESIGN)	68013
23	8017	TOP SWEEP	68017
24	8016	BOTTOM SWEEP	68016
25	-----	SWEEP SCREWS, #4 X 1/2" PHIL PH	
26	8015	ASTRAGAL, ACTIVE & INACTIVE	68015
27	8021B	GEAR HINGE, JAMB SIDE	68021B
28	8020A	GEAR HINGE, COVER	68020A
29	8018	GEAR HINGE, BACK-UP PLATE	68018
30	8019A	GEAR HINGE, DOOR SIDE	68019A
31	8035	GEAR HINGE, BEARING	68035
32	-----	GEAR HINGE, SET-SCREW #6-32 x 1/4"	
33	-----	GEAR HINGE, MTG. SCREW #12 x 3/4" TRUSS HD.	
34	-----	GEAR HINGE, MTG. SCREW #12 x 1 1/2" TRUSS HD.	
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
38	8043	S/S GEAR LATCH MECHANISM (ASHLAND)	
39	8030	LOCK BLOCK	48030
40	-----	LATCH ASS'Y SCREWS #8 X 2" SS PHILL TR HD	78X2TPAX
41	8037	S/S SHOOT BOLT ROD (SULLIVAN)	
42	8045	STANDARD FLUSH BOLTS W/ SS ROD (SULLIVAN)	
43	8031	SHOOT BOLT GUIDE	48031
44	-----	SHOOT BOLT GUIDE & STRIKE SCREW 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
45	8038R	RIGHT- STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED LEFT)	W5110-43S1
46	8038L	LEFT - STRIKE PLATE AT ASTRAGAL (ACTIVE HINGED RIGHT)	W5110-44S1
47	-----	STRIKE PLATE SCREWS 8-32 X 3/8" SS PHILL TR HD	78X38PFTX
48	-----	STRIKE PLATE MIDDLE SCREW 6-24 X 1/2" FH	7612FPTX
49	8036	STRIKE PLATE AT HEAD & SILL	
50	-----	HEAD STRIKE SCREWS SS 8 X 1/2 PHILL FH	7858ZAX
51	-----	STRIKE PLATE SCREWS @SILL SS 8 X 1/2 PHILL UNDERCUT FH	78X12PFHUX
52	8041	ACTIVE TRIM SET (ASHLAND)	
53	8042	PASSIVE TRIM SET (ASHLAND)	
54	8044	STAINLESS STEEL PASSIVE LOCK GEAR (ASHLAND)	
55	8014A	TOP RAIL (LAG BOLT DESIGN)	68014A
56	8013A	BOTTOM RAIL (LAG BOLT DESIGN)	68013A

FD650 FULL JAMB SIDE LITE

ITEM	DWG #	DESCRIPTION	PGT#
1	8006	FRAME - HEAD, SILL & JAMB	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
20	8012	STILE	68012
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	-----	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
62	8029	SIDE LITE JAMB TRIM	68029

FD650 NARROW JAMB SIDE LITE

1	8006	FRAME - HEAD & SILL	68006
4	8008	DRIP CAP	68008
6	8007	SCREW COVER	68007
7	8009	INSTALL PLATE	68009
8	-----	FRAME ASSEMBLY SCREW #8 X 1" PH QUAD	781PQA
21	8014	TOP RAIL	68014
22	8013	BOTTOM RAIL	68013
35	-----	THREADED ROD 5/16-18 X 36"	6TRODA
36	-----	FLANGED HEX NUT 5/16-18	7990NUTA
37	8039	TRUSS CLAMP	60378M
60	-----	#8 X 3/4" PH SQ DRIVE TEK SCREW	78X34PSTW
61	8028	SIDE LITE HEAD TRIM	68028
70	8010	FRAME, JAMB	68010

ASSEMBLY KIT

80	8033B	FRENCH DOOR ASSEMBLY BEAM	68033B
81	-----	#10-24 X 2 1/2" PH SCREW	
82	-----	#10-24 HEX NUT	
83	-----	#12 X 1 1/2" TR HD TEK SCREW	
84	8056	SUBSILL (OPTIONAL)	68056

GLASS, BEADS & SILICONE

90	-----	GLAZING SEALANT, DOW CORNING 791, 899, 983 OR 995	
100	-----	3/16" TEMPERED GLASS	
101	-----	7/8" I.G. GLASS (3/16"T, 1/2" AIR SPACE, 3/16"T)	
102	8025	3/16" BEAD	68025
105	8022	BACK BEAD	68022
106	8026A	SL BACKBEAD	68026A
108	8024A	7/8" IG BEAD	68024A
109	1224	VINYL BULB WSTP (THICK)	6TP247

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ALUM. FRENCH DOOR & SIDELITES (NI)

By Erin Koss

02/03/22

BILL OF MATERIALS

6 OF 11

FD-650

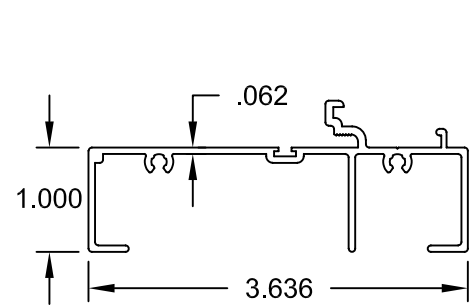
Rev.

FD650-FPA

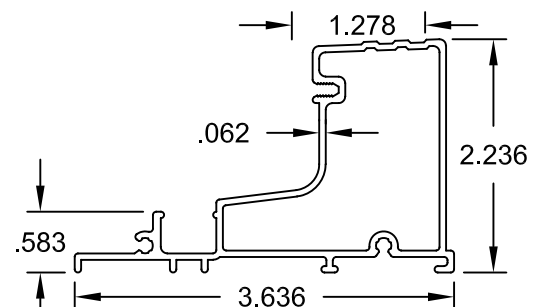
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ANTHONY LYNN MILLER
LICENSE
No. 58705
10/10/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

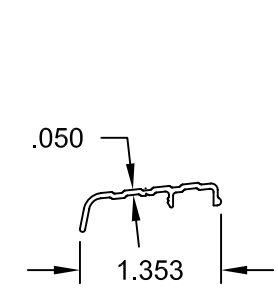
A. LYNN MILLER, P.E.
P.E.# 58705



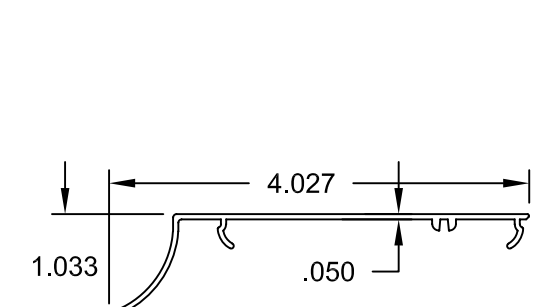
1 #8006 6063-T6
FRAME, HEAD, JAMB
AND SIDELITE SILL



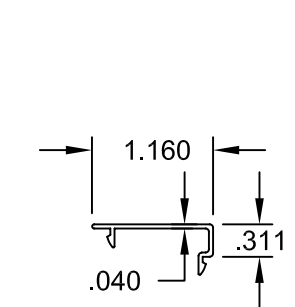
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OUT-SWING SILL



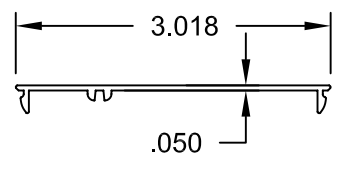
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OS SILL COVER



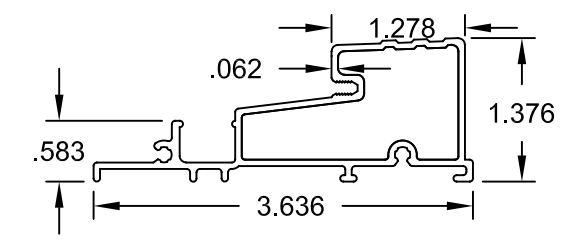
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DRIP CAP



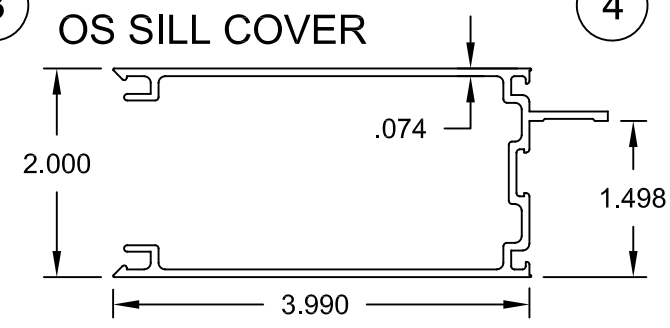
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SCREW COVER



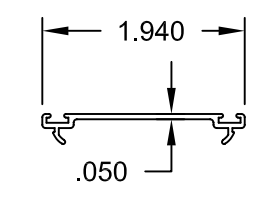
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INSTALL PLATE



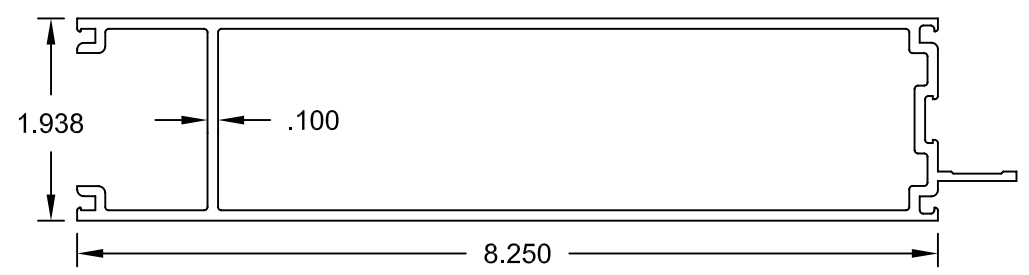
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OUT-SWING LOW SILL



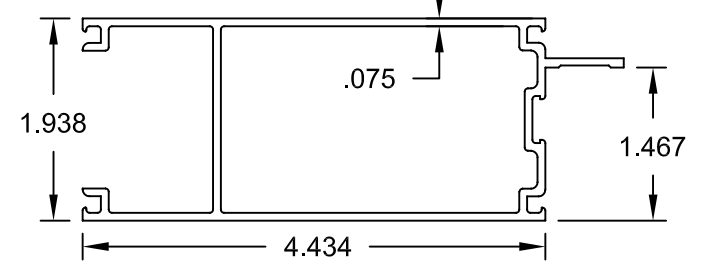
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STILE



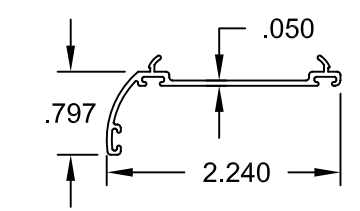
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TOP SWEEP



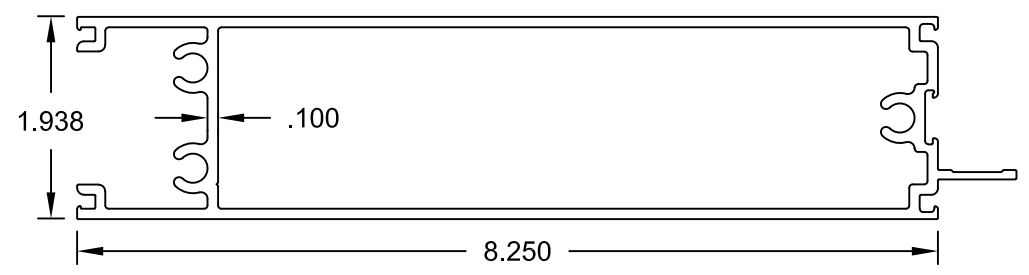
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BOTTOM RAIL



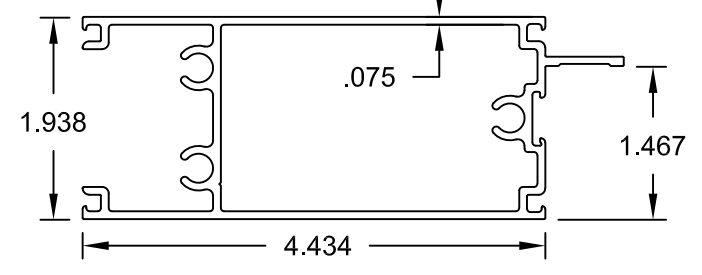
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TOP RAIL



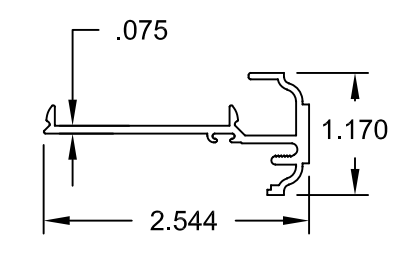
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BOTTOM SWEEP



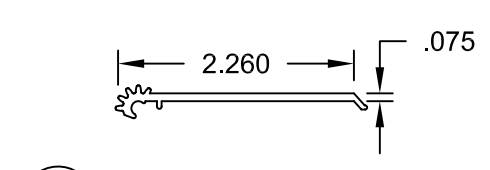
56 #8013A 6063-T6
BOTTOM RAIL, LAG BOLT DESIGN



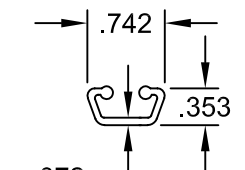
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TOP RAIL, LAG BOLT DESIGN



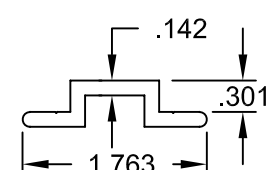
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ASTRAGAL



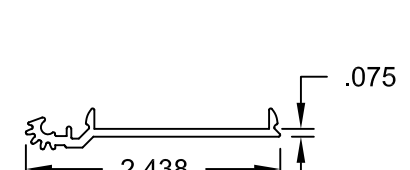
27 #8021B 6063-T6
GEAR HINGE, JAMB



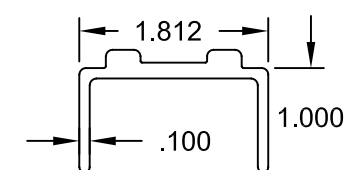
28 #8020A 6063-T6
GEAR HINGE, COVER



29 #8018 6063-T5
HINGE, BACK-UP

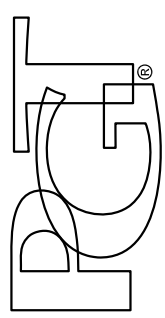


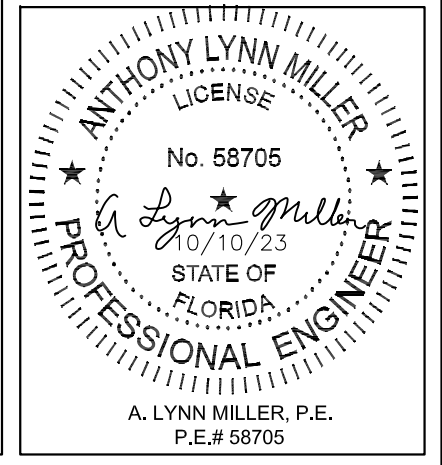
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GEAR HINGE, DOOR

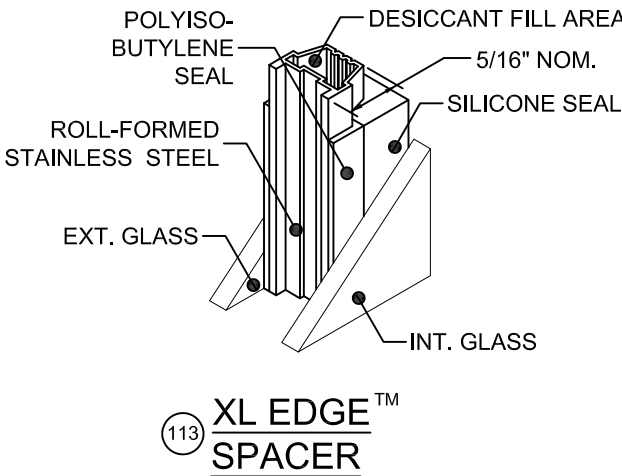
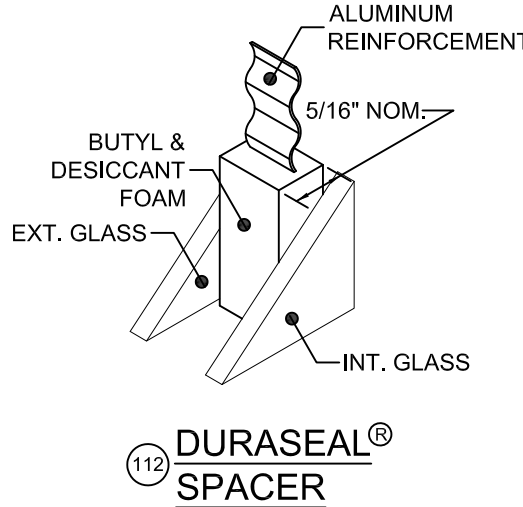
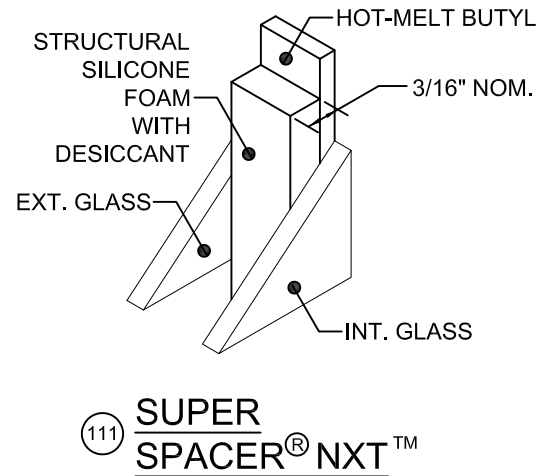
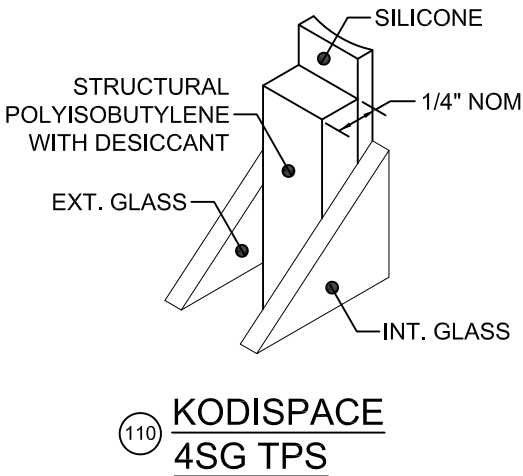
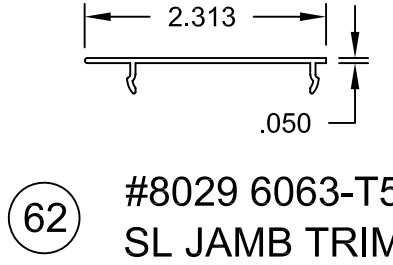
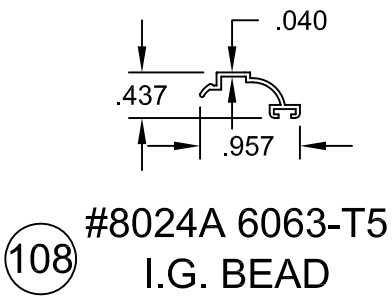
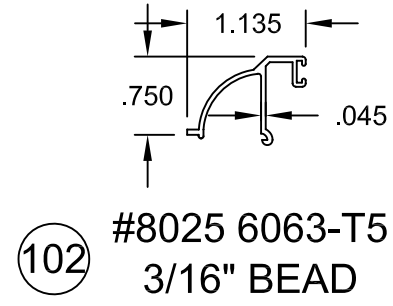
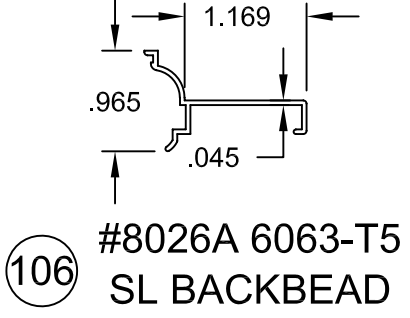
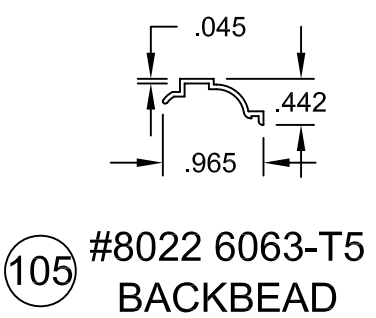
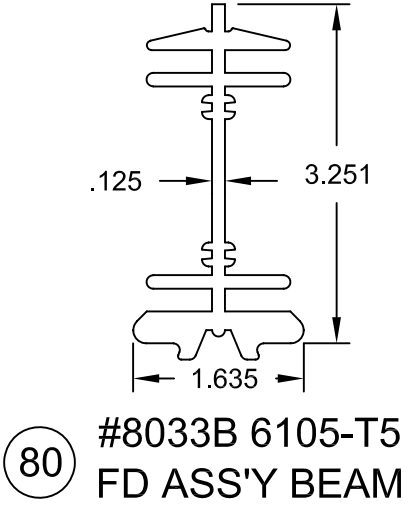
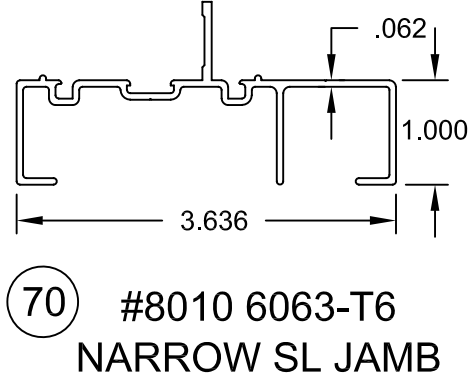
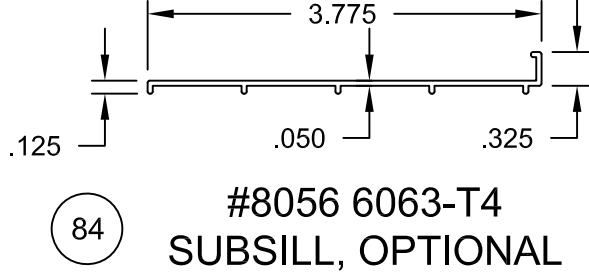
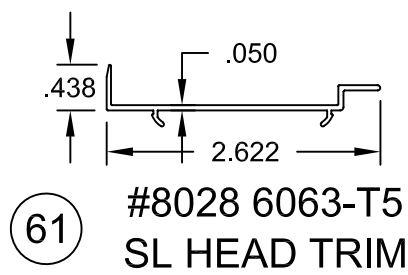


37 #8039 6063-T6
TRUSS CLAMP

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	REGISTRATION #29296	ALUM. FRENCH DOOR & SIDELITES (NI)	EXTRUSIONS	7 OF 11	FD-650





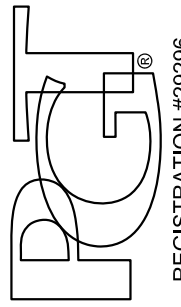
Part #	Description	Material
110	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
111	Quanex Super Spacer nXT with Hot Melt Butyl	
112	Quanex Duraseal Spacer	
113	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

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REGISTRATION #29296

ALUM. FRENCH DOOR & SIDELITES (NI)

EXTRUSIONS

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N. VENICE, FL 34275
(941)480-1600

02/03/22

By ERIN KOSS

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Rev. A

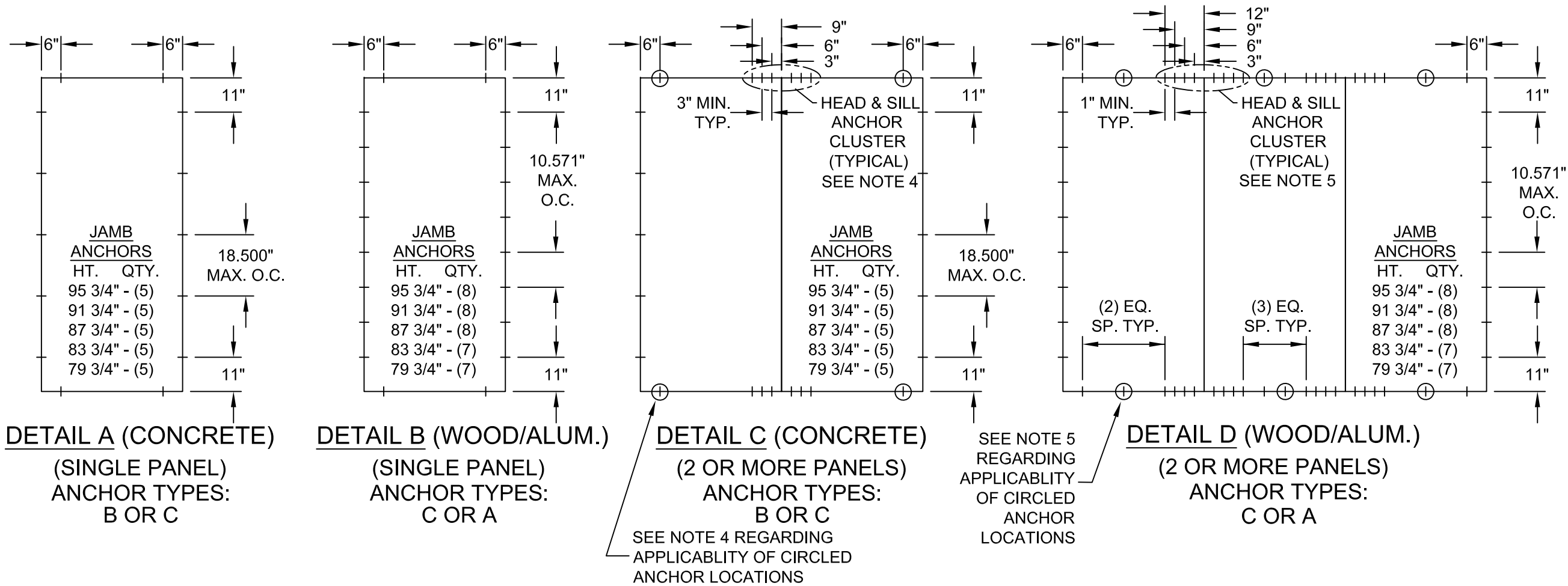
FD650

8 OF 11

FD650-FPA

ANTHONY LYNN MILLER
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No. 58705
10/10/23
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705



ANCHORAGE SPACING REQUIREMENTS:

1. DETAILS A AND B ABOVE REPRESENT ANCHORING OF SINGLE X DOORS, OR INDIVIDUAL SIDE LITE O PANELS WITH FULL OR NARROW WIDTH JAMBS. DETAILS C AND D ABOVE REPRESENT ANCHORING OF ANY MIXTURE OF DOUBLE XX DOORS, SINGLE X DOORS, NARROW JAMB OR FULL JAMB SIDE LITE PANELS, FOR MULTIPLE-PANEL INSTALLATIONS OF TWO OR MORE PANELS. UNLESS OTHERWISE STATED, DIMENSIONS OF DETAILS A THROUGH D ARE MAXIMUMS.
2. ANCHOR TYPES: SEE TABLE A, SHEET 1 FOR ANCHOR TYPES, SUBSTRATES AND LIMITATIONS.
3. SINGLE PANEL CONFIGURATIONS: (DETAIL A, CONCRETE SUBSTRATE. DETAIL B, WOOD/ALUM. SUBSTRATE)

HEAD AND SILL.....6" MAX. FROM FRAME CORNERS.
JAMBS.....11" MAX. FROM FRAME CORNERS, 18.500" MAX. O.C. CONCRETE SUBSTRATE (DETAIL A) AND 10.571" MAX. O.C. WOOD SUBSTRATE (DETAIL B).
4. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL C, CONCRETE SUBSTRATE)
HEAD AND SILL: 6" MAX. FROM FRAME CORNERS IF PANEL WIDTH IS 15" OR GREATER AND AT 3", 6" AND 9" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 6).

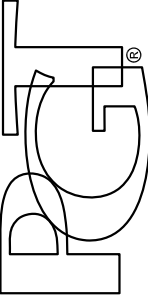
JAMBS: 11" MAX. FROM FRAME CORNERS AND 18.500" MAX. O.C
5. TWO OR MORE PANEL CONFIGURATIONS: (DETAIL D, WOOD/ALUM. SUBSTRATE)
HEAD AND SILL: 6" MAX. FROM FRAME CORNERS AND AT 3", 6", 9" AND 12" MAX. ON EACH SIDE OF ASSEMBLY BEAM AND/OR ASTRAGAL LOCATIONS (CLUSTER OF 8). CIRCLED ANCHOR OUTSIDE CLUSTER REQUIRED IF PANEL WIDTH IS OVER 27-3/4".

JAMBS: 11" MAX. FROM FRAME CORNERS AND 10.571" MAX. O.C

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REGISTRATION #29296

ALUM. FRENCH DOOR & SIDELITES (NI)
ANCHOR SPACING & EXAMPLE

FD-650

02/03/22

By ERIN KOSS

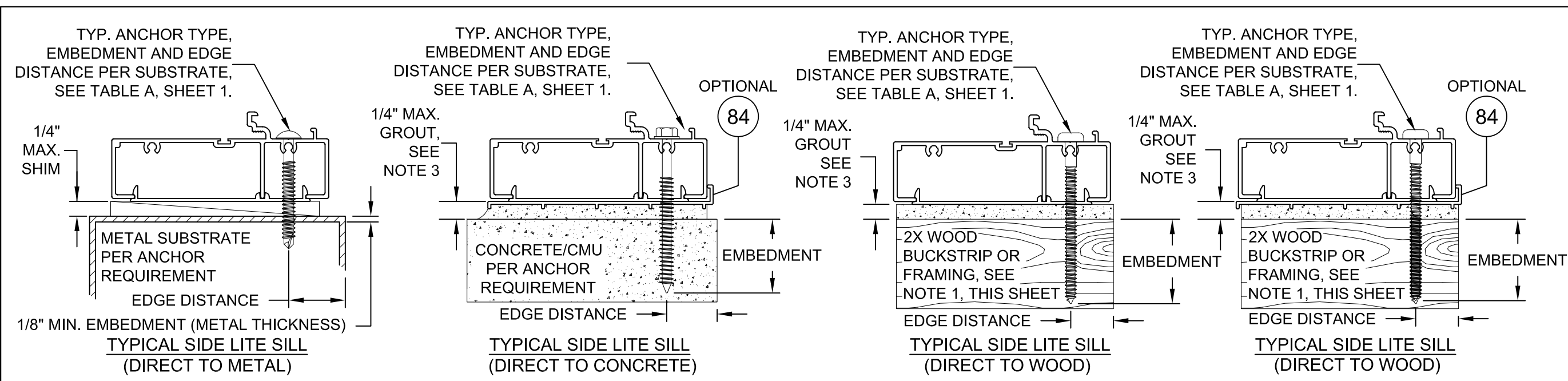
9 OF 11

FD650-FPA

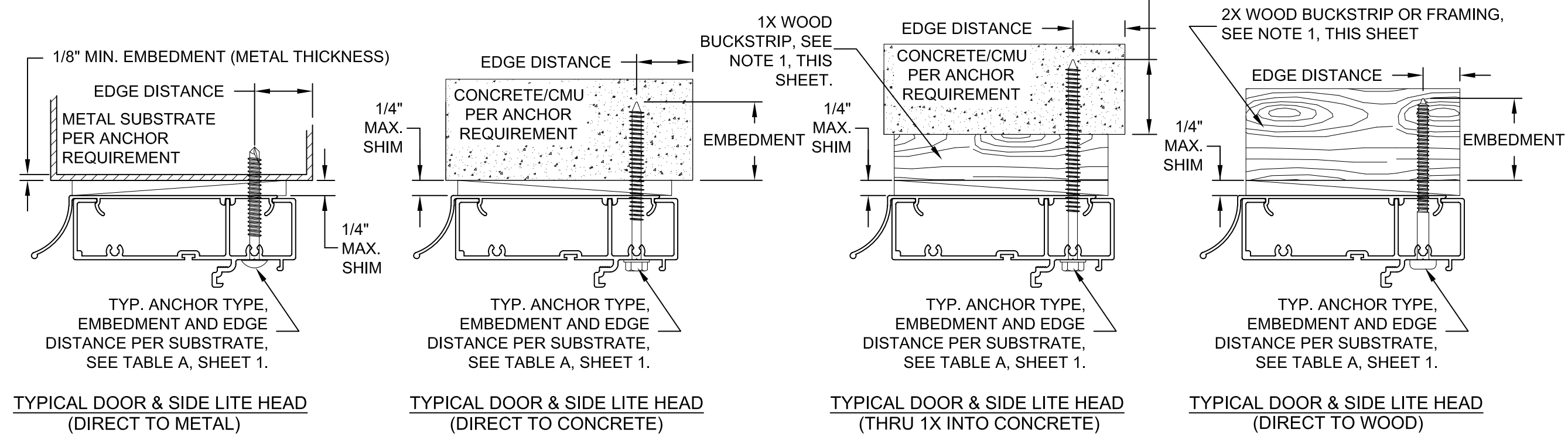
A

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A. LYNN MILLER, P.E.
P.E.# 58705

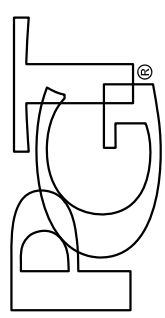


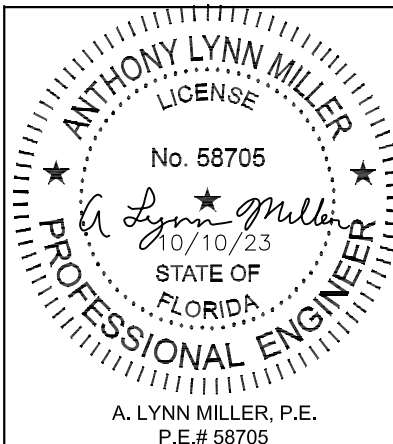
EXTERIOR INTERIOR
(ALL HEAD & SILL SECTIONS)



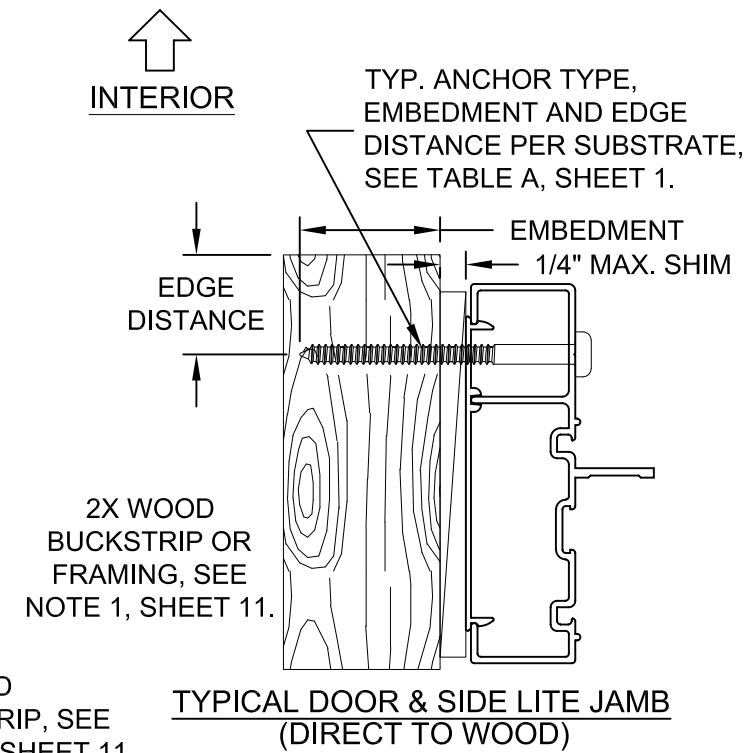
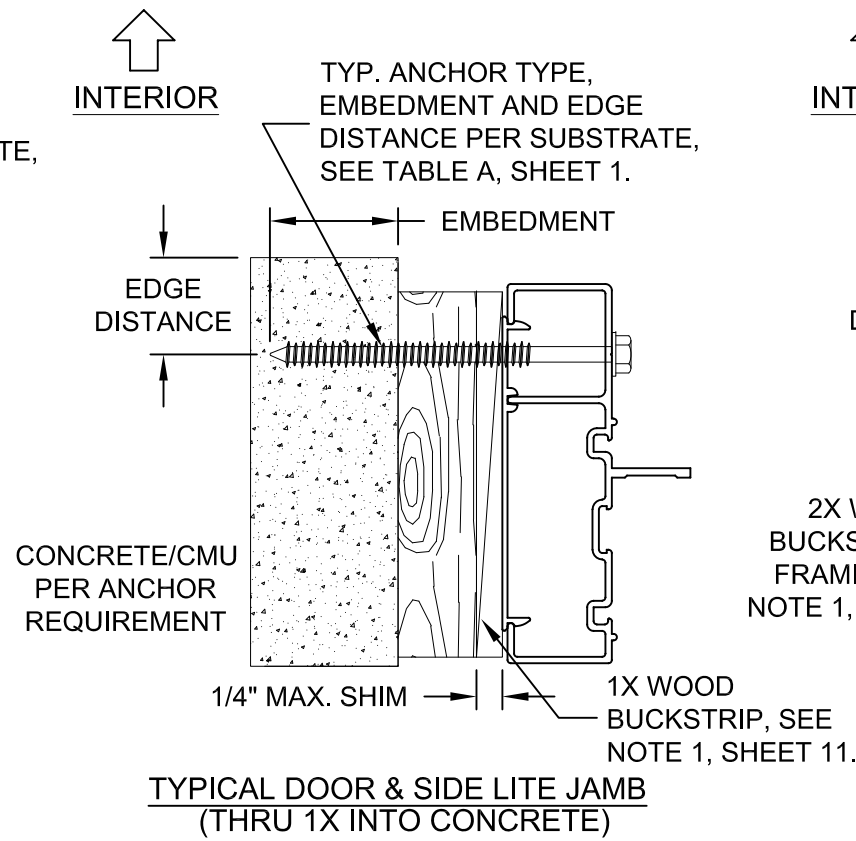
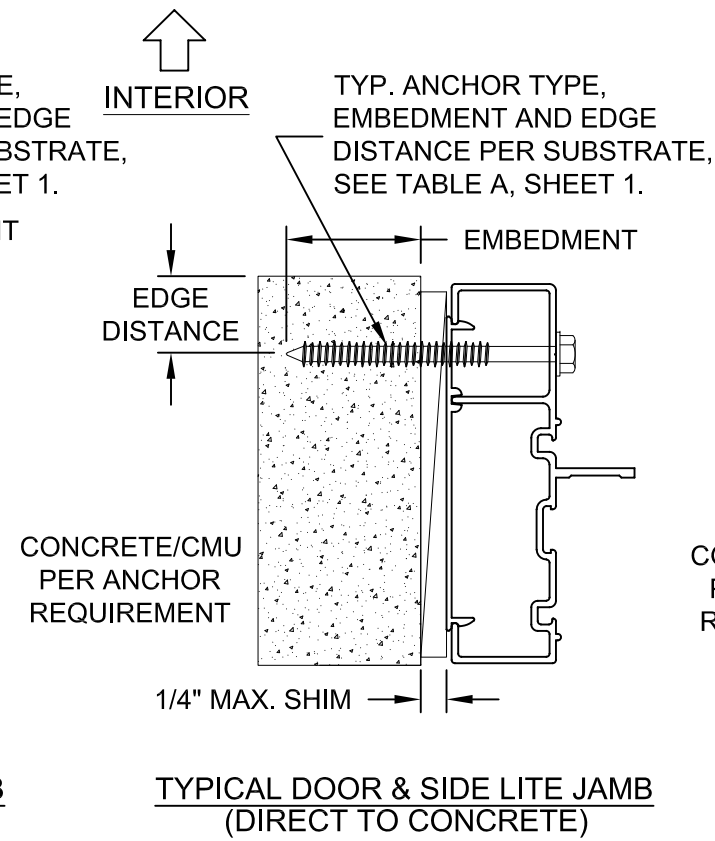
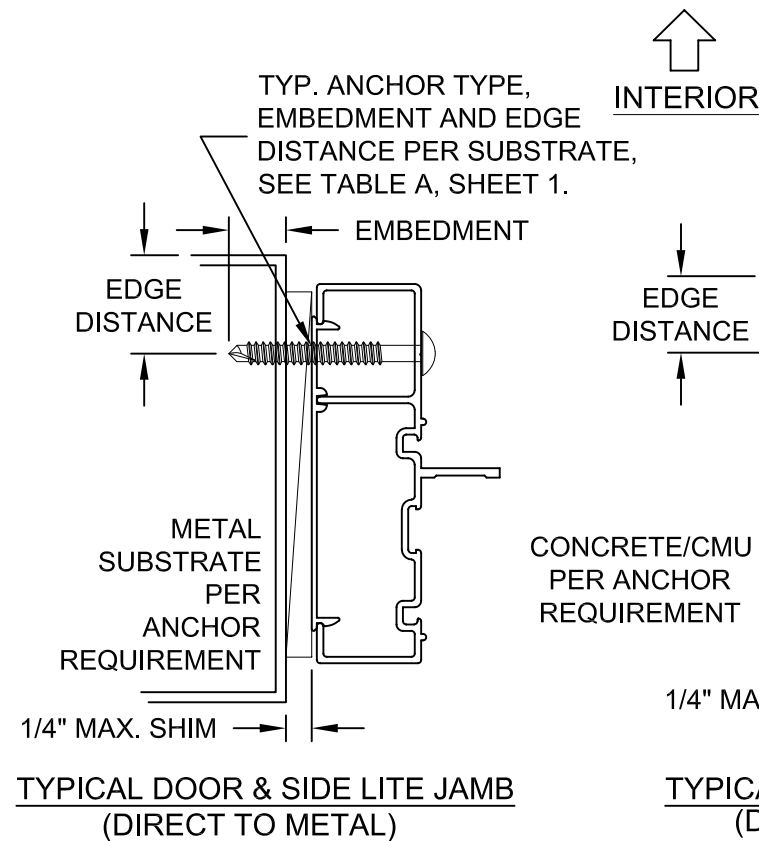
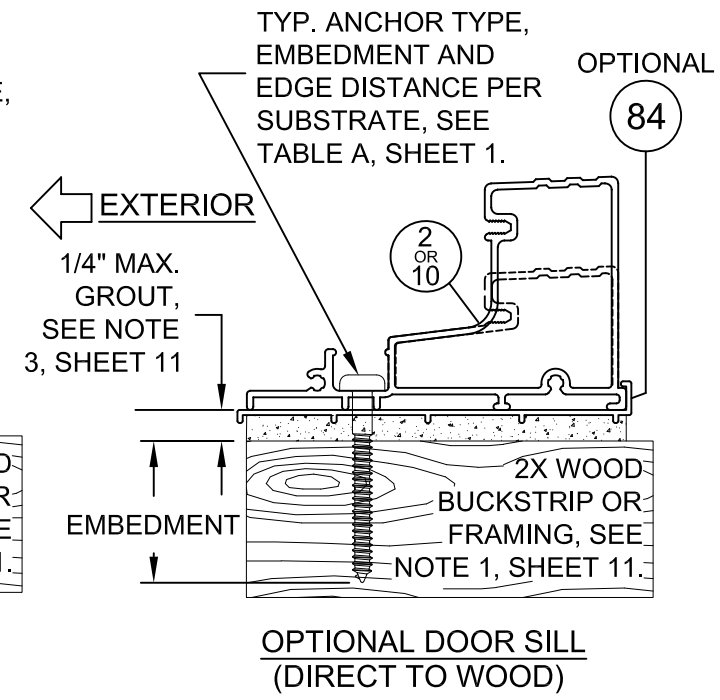
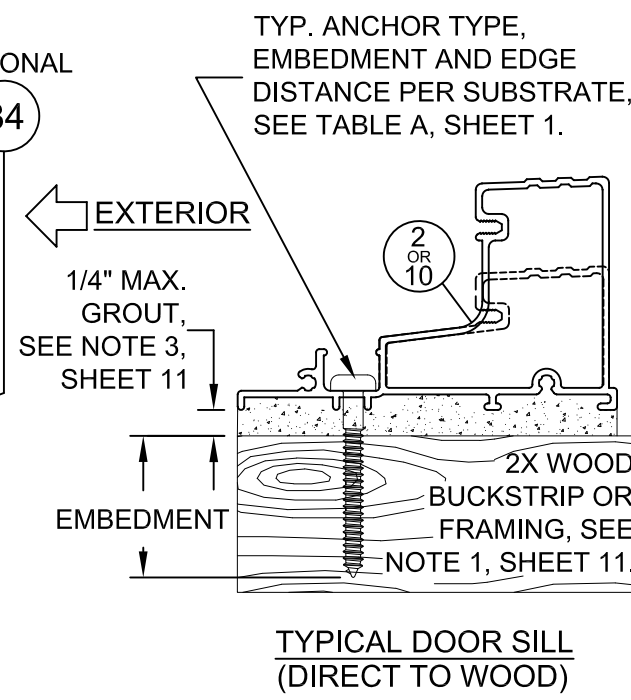
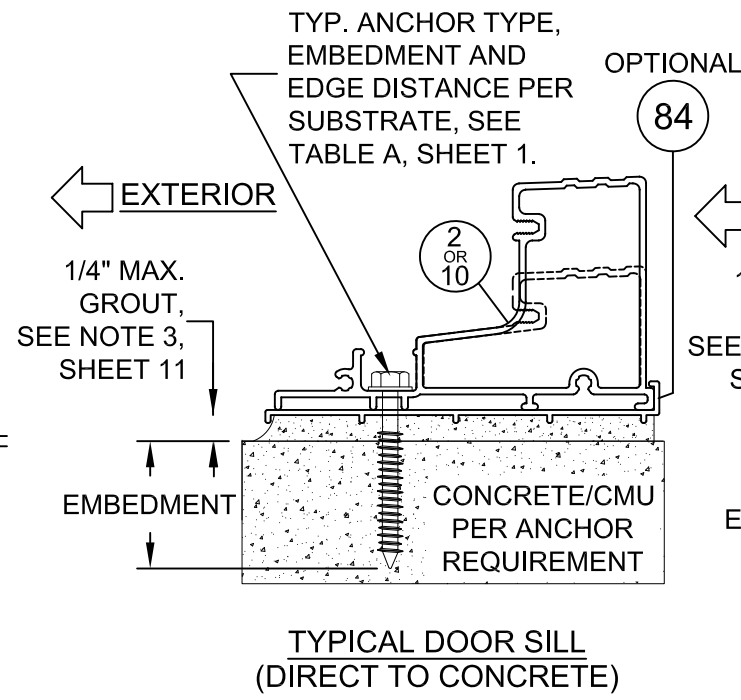
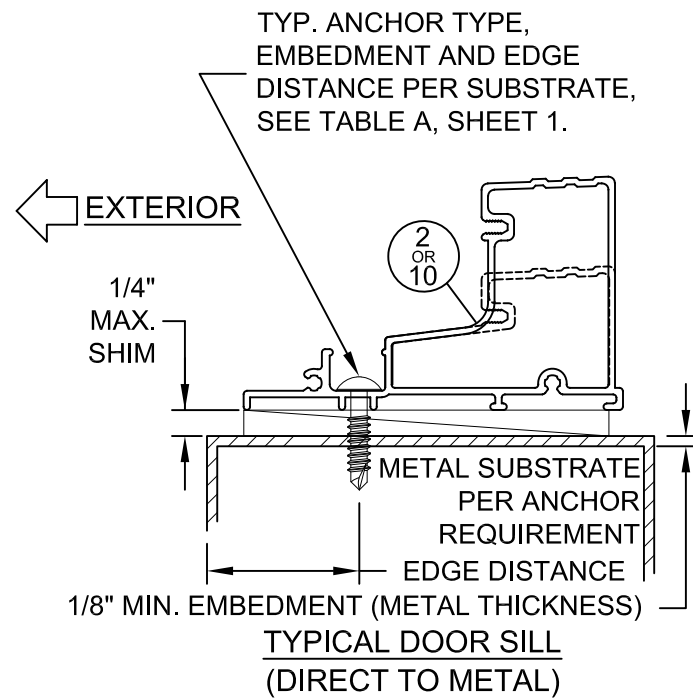
- NOTES:
- WOOD BUCKS DEPICTED AS 1x ARE LESS THAN 1-1/2" THICK. 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
 - FOR ATTACHMENT TO ALUM: THE MAT'L SHALL BE A MIN. STRENGTH OF 6063-T5 AND A MIN. OF 1/8" THICK. THE ALUM. STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE DOOR FRAME SIMILAR TO THAT SHOWN IN THE DETAILS ON THIS SHEET FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SMS WITH FULL ENGAGEMENT INTO THE ALUM. IF THESE CRITERIA ARE MET, THE PRESSURES SHOWN ON SHEET 2 AND ANCHORAGE SPACING FOR WOOD SHOWN ON SHEET 10 MAY BE USED.
 - IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE.

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		ALUM. FRENCH DOOR & SIDELITES (NI)		FD650-FPA	
INSTALLATION DETAILS		10 OF 11		DWC No.	
FD-650		Sheet		Series	



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10/10/23
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A. LYNN MILLER, P.E.
P.E.# 58705



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INSTALLATION DETAILS		11 OF 11		FD-650	Sheet	

