

SERIES SGD8100A ULTRA-NARROW, IMPACT-RESISTANT,
2, 3, 4 & 5 TRACK SLIDING GLASS DOOR

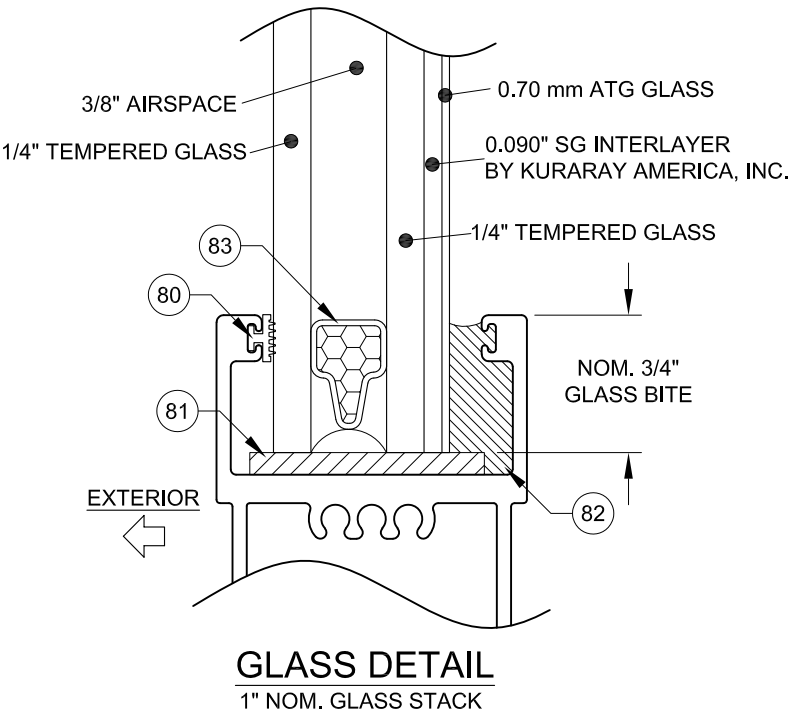
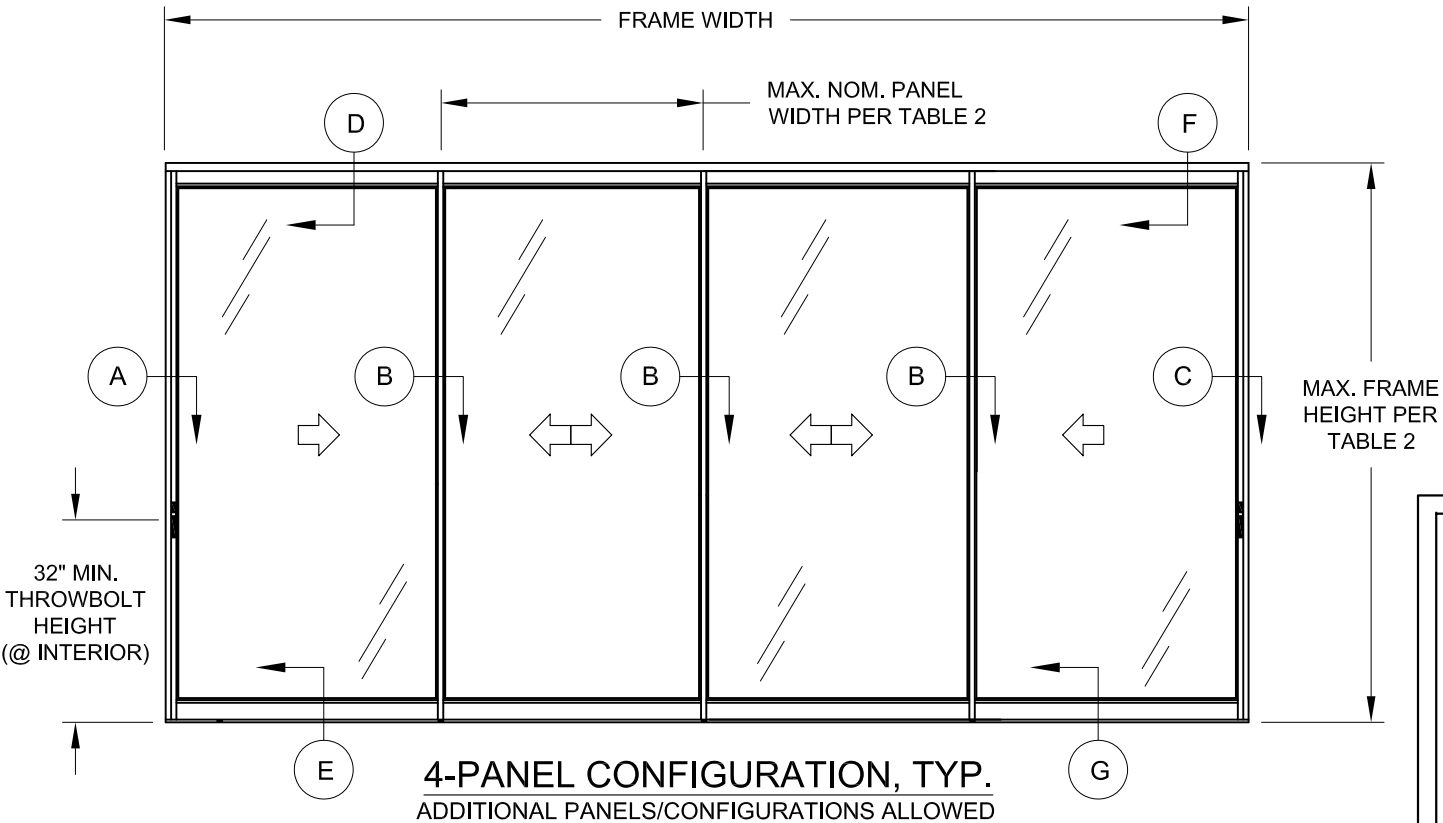
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, (FBC), INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATIONS WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE FBC, AS APPLICABLE. IN THE HVHZ, ANY PANEL QUANTITY MAY BE USED PROVIDED THAT THE OVERALL FRAME SQUARE FOOTAGE OF 270.08 FT² IS NOT EXCEEDED. OUTSIDE THE HVHZ, ANY PANEL QUANTITY MAY BE USED REGARDLESS OF THE OVERALL FRAME SQUARE FOOTAGE.

TABLE 1:

Anchor Group	Anchor Type	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#14 Steel SMS (Gr. 5) or #14 SS SMS	Southern Pine (SG = 0.55)	5/8"	1"	1-3/8"
		6063-T5 Aluminum	3/8"	1"	0.071"
		A36 Steel	3/8"	1"	0.050"
		Steel Stud, Gr. 33	3/8"	1"	0.045" (18 Ga)
	1/4" DeWalt UltraCon+	Southern Pine (SG = 0.55)	1"	1"	1-3/8"
B	1/4" 410 SS Elco CreteFlex	Southern Pine (SG = 0.55)	1"	1"	1-3/8"
	1/4" DeWalt UltraCon+	Concrete (min. 3.0 ksi)	1-1/2"	1-1/2"	1-3/4"
		Hollow or Grout-filled CMU (ASTM C90)	1-1/2"	2-3/16"	1-1/4"
	1/4" DeWalt UltraCon+	Concrete (min. 3.0 ksi)	2-1/2"	1-1/2"	1-3/4"
		Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	2-3/16"	1-1/4"
	1/4" 410 SS Elco CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	2"	1-3/4"
		Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	2-3/16"	1-1/4"

FLORIDA PRODUCT APPROVAL #16755

DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
+50.0 / -55.0 PSF	7.5 PSF	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



- 1) WHERE SUBSTRATE CONDITIONS REQUIRE ANCHORAGE FROM MORE THAN ONE ANCHOR GROUP, CHOOSE THE ANCHOR GROUP THAT REQUIRES THE GREATEST QUANTITY OF ANCHORS IN TABLE 2.
- 2) ALL ANCHOR HEAD TYPES ARE APPLICABLE.
- 3) ANCHORS MUST BE OF SUFFICIENT LENGTH SO THAT A MINIMUM OF 3 THREADS EXTEND BEYOND METAL SUBSTRATE.

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104 TRIPLE DIAMOND BLVD
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(833) 554-5432

ALUM., ULTRA-NARROW ROLLER SGD (LM)
ELEVATION & GENERAL NOTES

06/15/25
JENS ROSOWSKI

8100FPA-LM-5

1 OF 7

SGD8100A

ANTHONY LYNN MILLER
LICENSE
No. 58705
06/15/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 2:

All Sizes +50.0/-55.0 psf		Anchor Quantities Required																				
		Nominal Panel Width / Panel DLO Width / Anchor Location																				
		36" (Nom.)			42" (Nom.)			48" (Nom.)			54" (Nom.)			60" (Nom.)			63-1/2" (Nom.)			72" (Nom.)		
		33-5/8" (DLO)			39-5/8" (DLO)			45-5/8" (DLO)			51-5/8" (DLO)			57-5/8" (DLO)			61-1/8" (DLO)			69-5/8" (DLO)		
Frame Height	Anchor Group	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb	MidPanel	Cluster	Jamb
80"	A	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	6	4	10
	B	2	4	10	2	4	10	2	2	10	4	4	10	4	4	10	4	4	10	4	4	10
84"	A	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	6	4	10
	B	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	4	4	10
90"	A	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	6	4	10
	B	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	4	4	10
98"	A	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	6	6	10
	B	2	4	10	2	4	10	2	4	10	4	4	10	4	4	10	4	4	10	4	4	10
102"	A	2	4	12	2	4	12	2	4	12	4	4	12	4	6	12	4	6	12	6	6	12
	B	2	4	12	2	4	12	2	4	12	4	4	12	4	4	12	4	4	12	4	4	12
108"	A	2	4	12	2	4	12	2	4	12	4	6	12	4	6	12	4	6	12	6	6	12
	B	2	4	12	2	4	12	2	4	12	4	4	12	4	4	12	4	4	12	4	4	12
114"	A	2	4	12	2	4	12	2	6	12	4	6	12	4	6	12	4	6	12	6	6	12
	B	2	4	12	2	4	12	2	4	12	4	4	12	4	4	12	4	4	12	4	6	12
120"	A	2	4	12	2	4	12	2	6	12	4	6	12	4	6	12	4	6	12	6	6	12
	B	2	4	12	2	4	12	2	4	12	4	4	12	4	4	12	4	6	12	4	6	12
126"	A	2	4	14	2	6	14	2	6	14	4	6	14	4	6	14	4	6	14			
	B	2	4	14	2	4	14	2	4	14	4	4	14	4	6	14	4	6	14			
130"	A	2	4	14	2	6	14	2	6	14	4	6	14	4	6	14	4	6	14			
	B	2	4	14	2	4	14	2	4	14	4	6	14	4	6	14	4	6	14			

JAMB = TOTAL # OF ANCHORS THROUGH THE JAMB.

CLUSTER = TOTAL # OF ANCHORS THROUGH THE HEAD & SILL AT THE MEETING POINT OF 2 PANELS.

MIDPANEL = TOTAL # OF ANCHORS THROUGH THE HEAD & SILL REQUIRED AT THE MIDSPAN OF PANEL.

TABLE NOTES:

1) SEE SHEET 5 FOR ANCHOR LOCATIONS & SPACING.

2) TABLE APPLIES TO ALL FRAMES WITH 2-5 TRACKS AND ALL PANEL CONFIGURATIONS.

WINDOOR

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ALUM., ULTRA-NARROW ROLLER SGD (LM)

ANCHOR QUANTITY TABLE

SGD8100A

2 OF 7

8100FPA-LM-5

Series

Desc.

Title

By

Date

Rev.

Anthony Lynn Miller

No. 58705

06/15/25

STATE OF FLORIDA

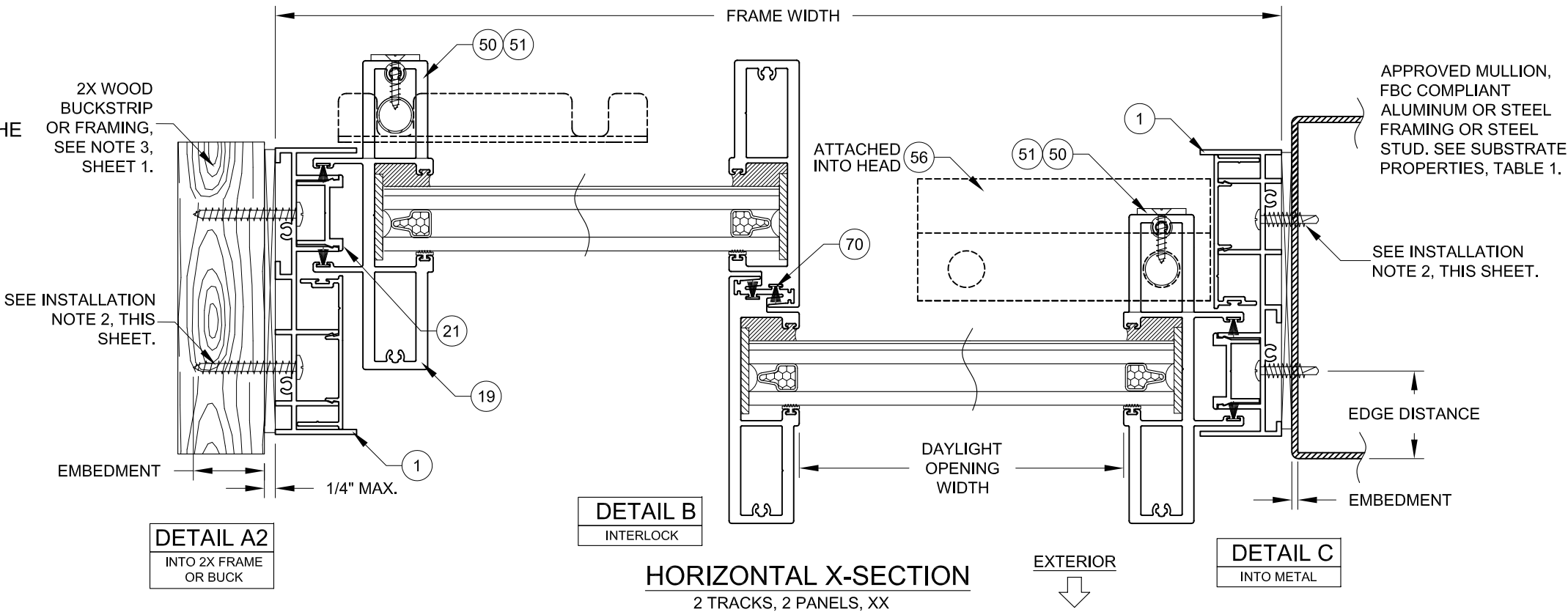
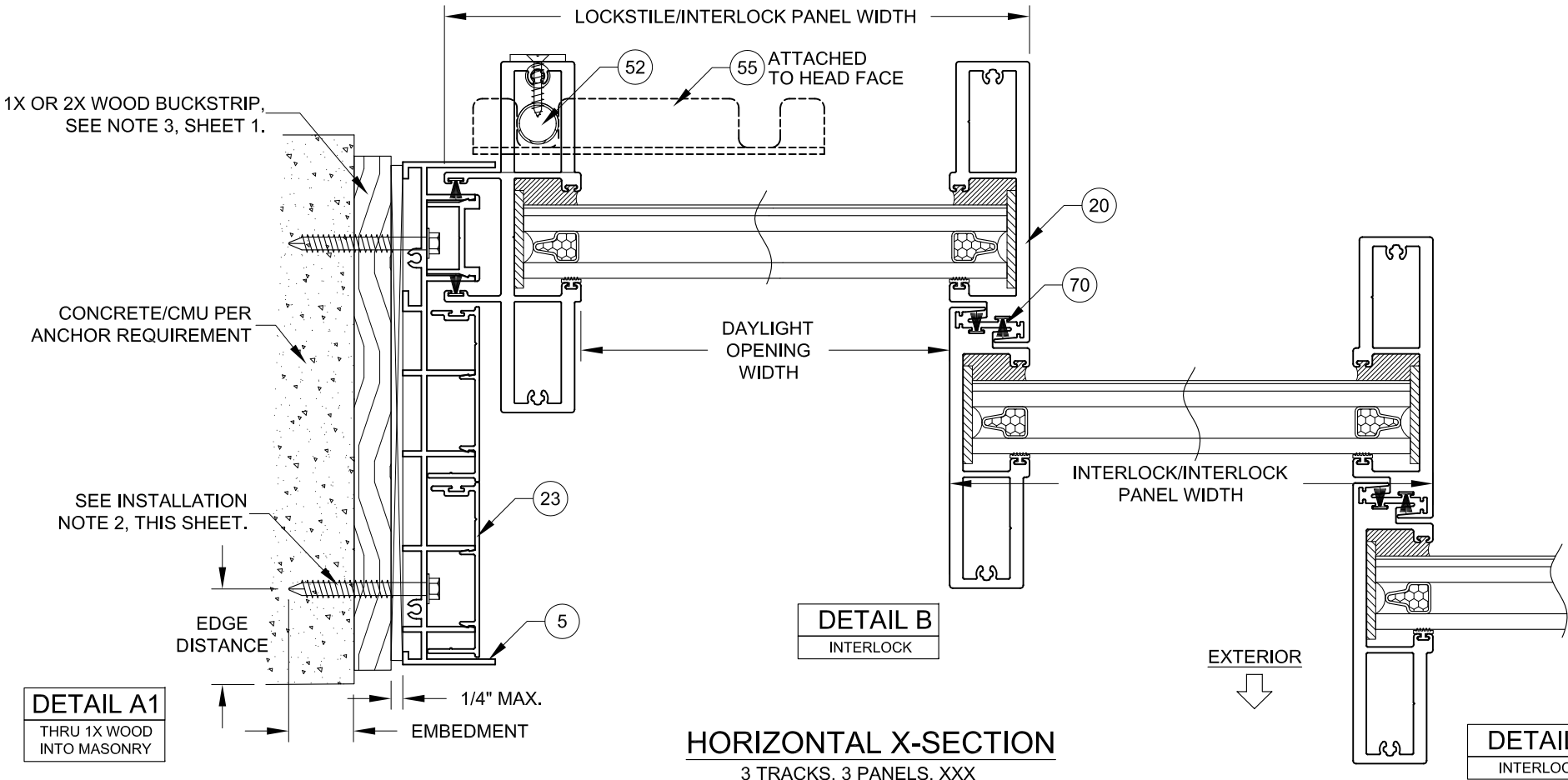
PROFESSIONAL ENGINEER

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P.E.# 58705

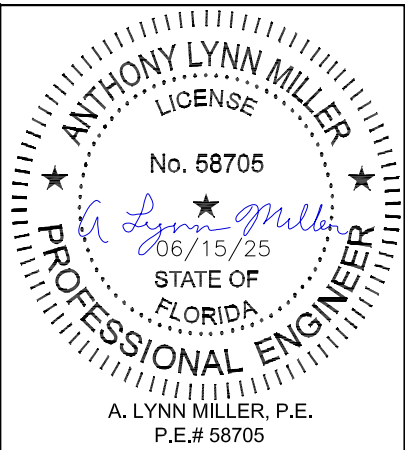
JENS ROSOWSKI

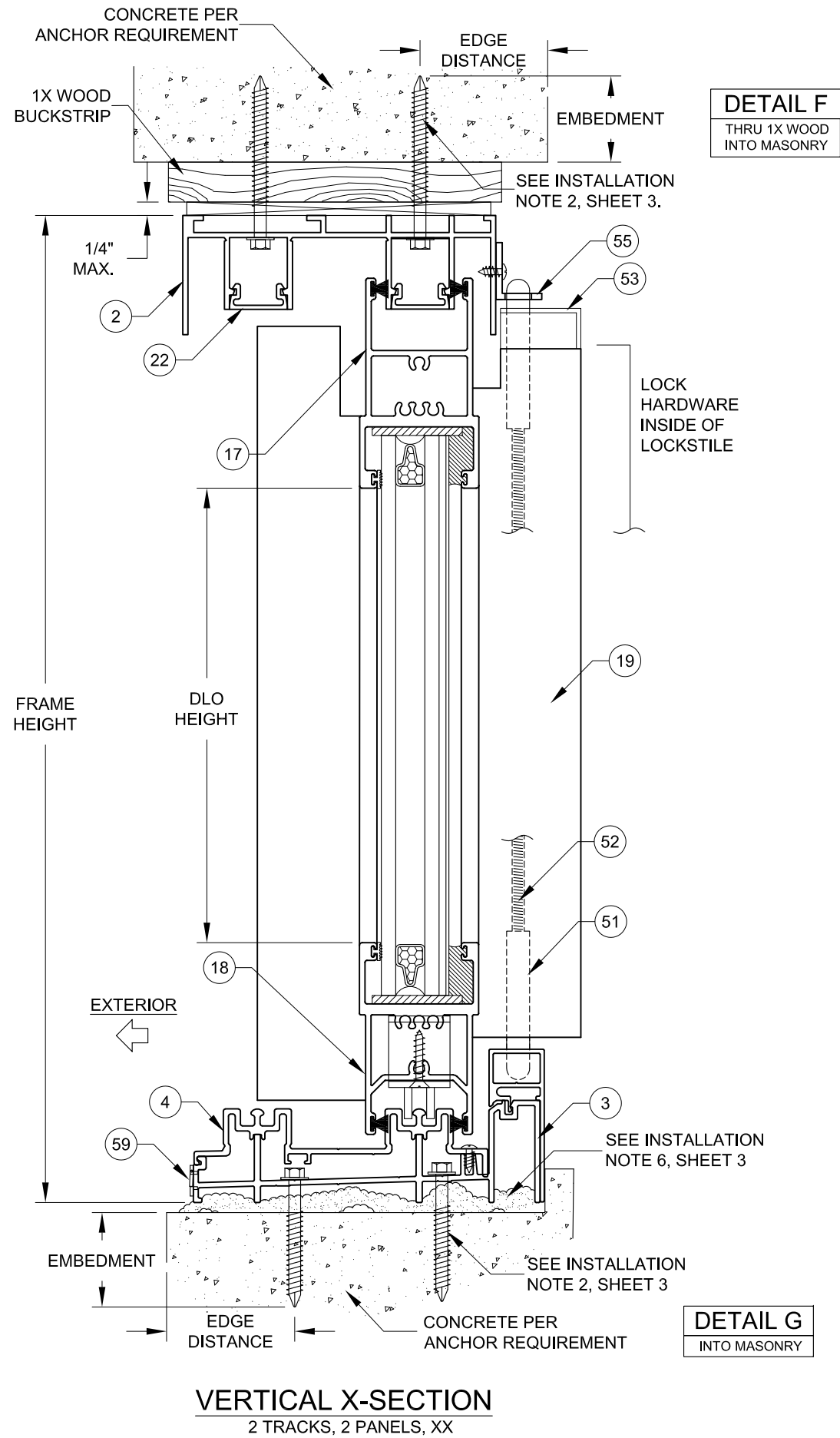
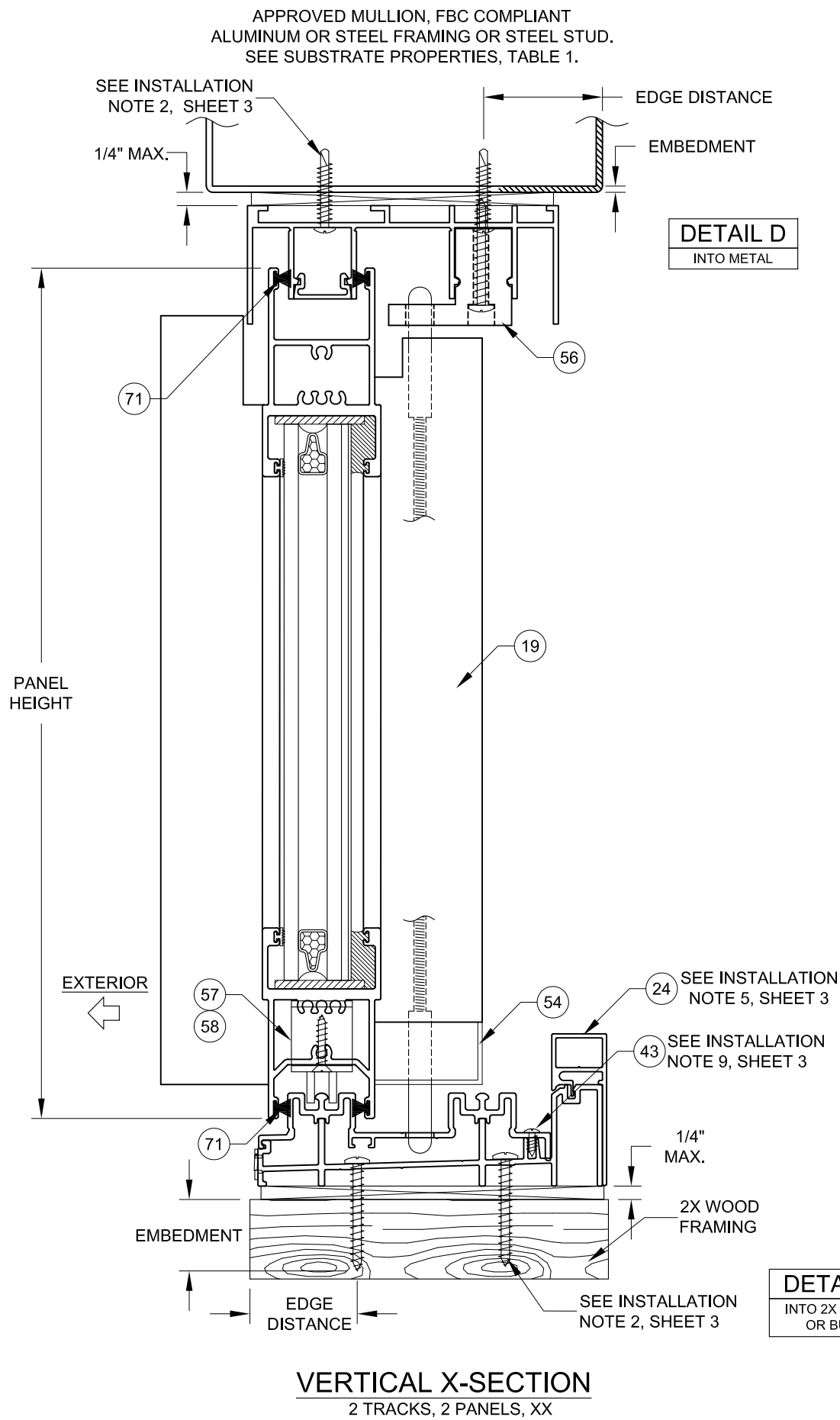
INSTALLATION NOTES:

- 1) DETAILS APPLY TO 2, 3, 4 AND 5 TRACK CONFIGURATIONS. INSTALLATION ANCHORS AND SUBSTRATE DETAILS MAY APPLY TO ANY FRAME LOCATION.
- 2) SEE TABLE 1 FOR SPECIFIC REQUIREMENTS PER THE ANCHOR AND SUBSTRATE BEING USED.
- 3) SEE SHEET 5 FOR ANCHOR LOCATIONS & SPACING, FOR ANCHOR QUANTITIES, SEE TABLE 2.
- 4) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 5) SILL RISER MUST BE FULLY SEALED BETWEEN THE SILL RISER, SILL AND JAMBS.
- 6) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 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. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- 7) SILL WEEPHOLES ARE 1" X 3/16" AND ARE LOCATED AT 6" FROM EACH JAMB AND AT THE MEETING POINT OF 2 ADJACENT PANELS.
- 8) STANDARD ANCHOR LOCATIONS SHOWN. ANCHORS MAY BE LOCATED IN ANY ADJACENT TRACK AS REQUIRED TO MEET MIN. EDGE DISTANCE CONSTRAINTS.
- 9) ATTACH SILL INSERT TO SILL PAN AT 4" FROM EACH END AND MAX 18" O.C.



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ALUM., ULTRA-NARROW ROLLER SGD (LM)		JENS ROSOWSKI	8100FPA-LM-5
HORIZ. INSTALL. DETAILS		By	No.
SGD8100A		3 OF 7	DWG
Sheet		3 OF 7	Rev.





- DLO HEIGHT = FRAME HEIGHT - 7-13/16"
- PANEL HEIGHT = FRAME HEIGHT - 1-15/16"
- DLO WIDTH = INT./INT. PANEL WIDTH - 2-3/16"
- DLO WIDTH = LOCKSTILE/INT. PANEL WIDTH - 2-15/16"
- DLO WIDTH = NOMINAL PANEL WIDTH - 2-3/8"

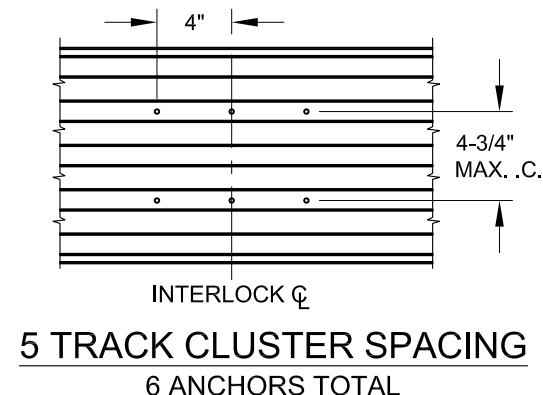
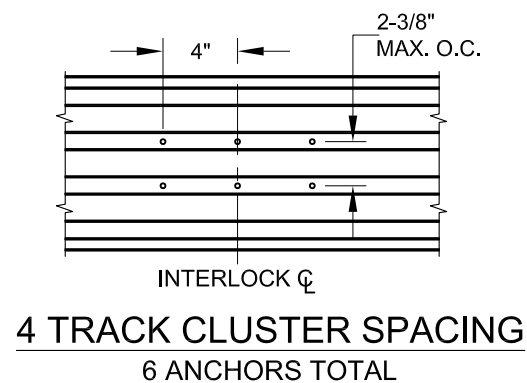
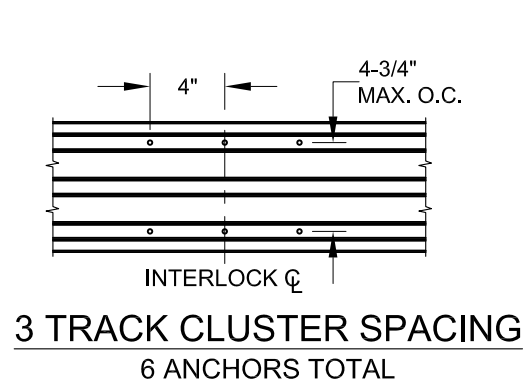
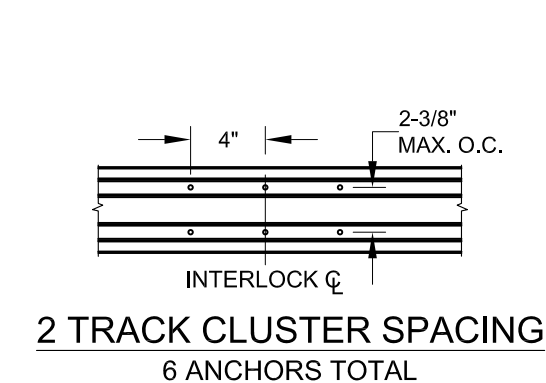
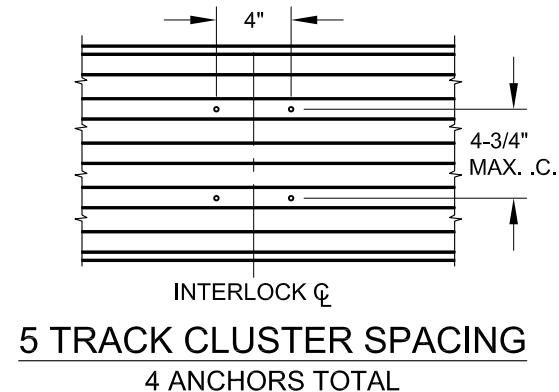
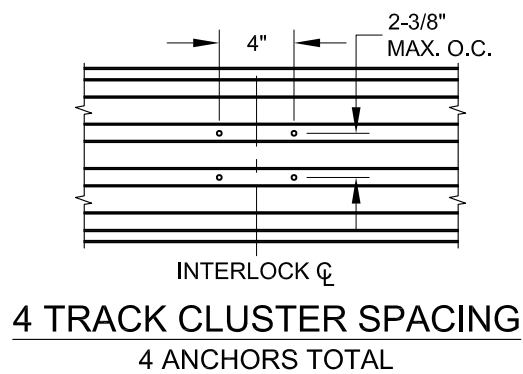
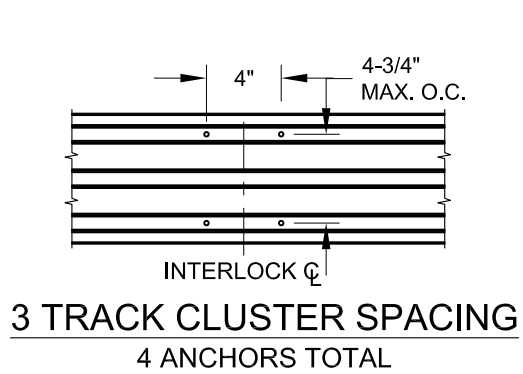
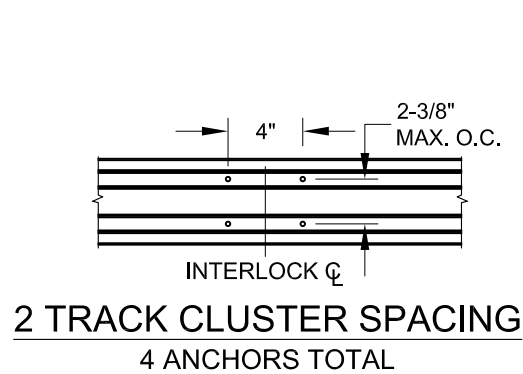
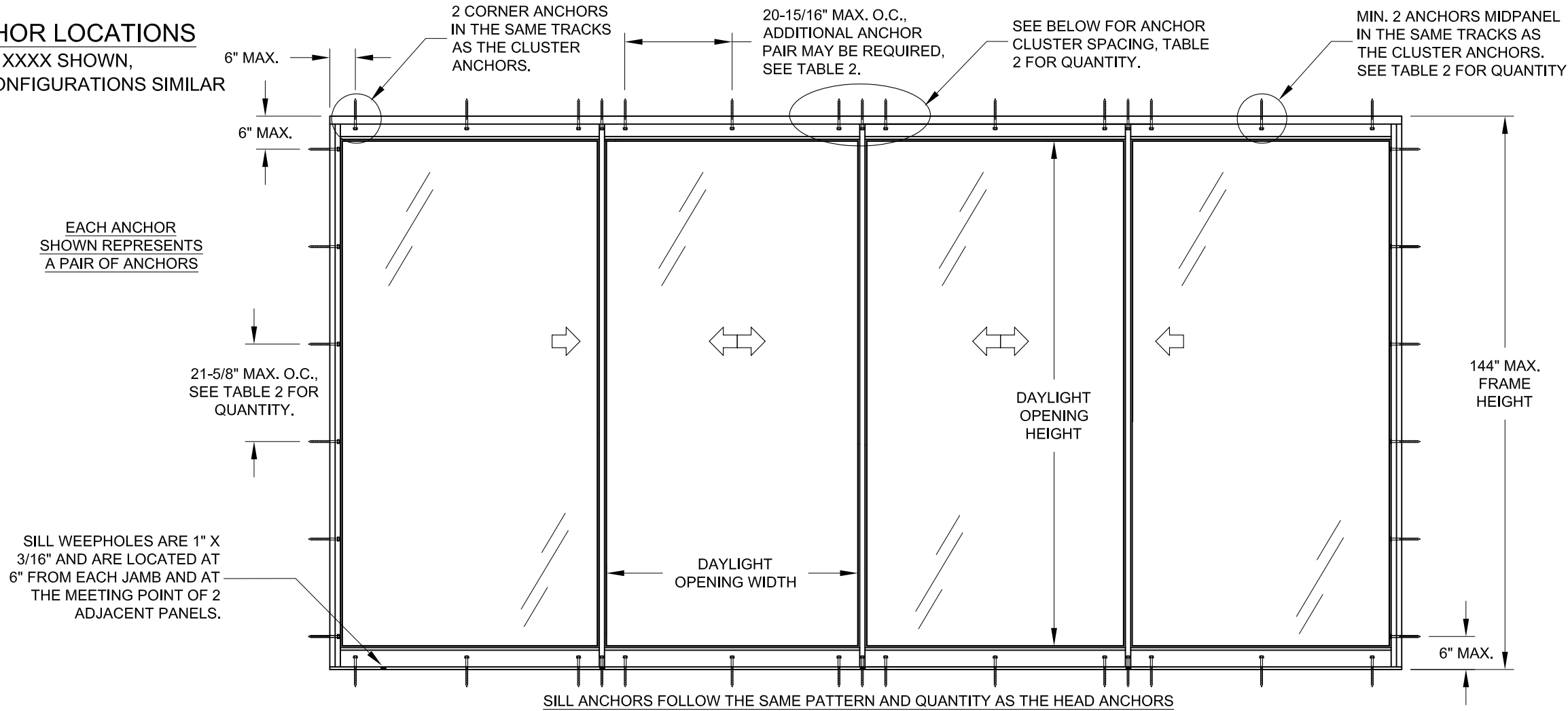
NOTES:

- 1) SEE INSTALLATION NOTES, SHEET 3.
- 2) OTHER TRACK CONFIGURATIONS SIMILAR.

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WINDOOR, LLC 104 TRIPLE DIAMOND BLVD N VENICE, FL 34275 (833) 554-5432		ALUM., ULTRA-NARROW ROLLER SGD (LM)	
WINDOOR 		VERTICAL INSTAL. DETAILS	
SGD8100A		4 OF 7	
JENS ROSOWSKI		8100FPA-LM-5	

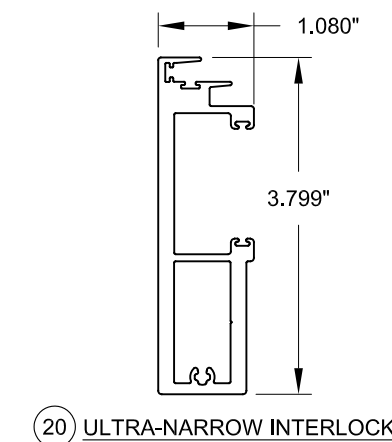
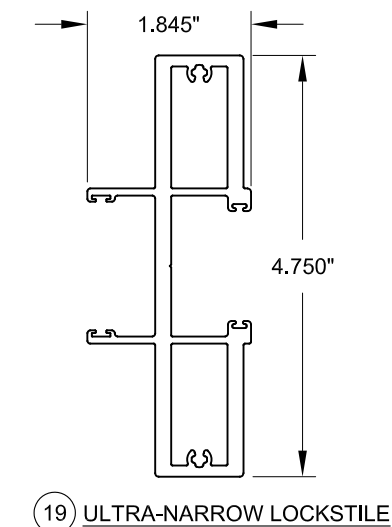
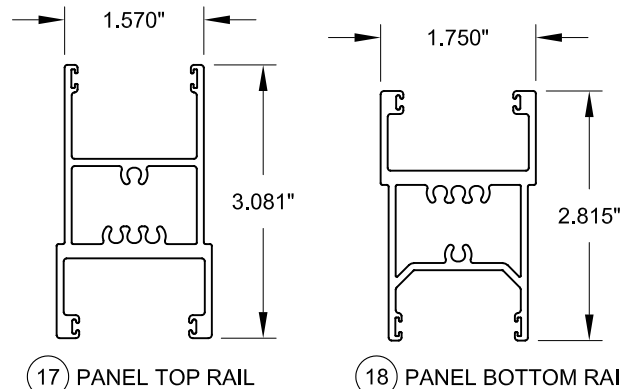
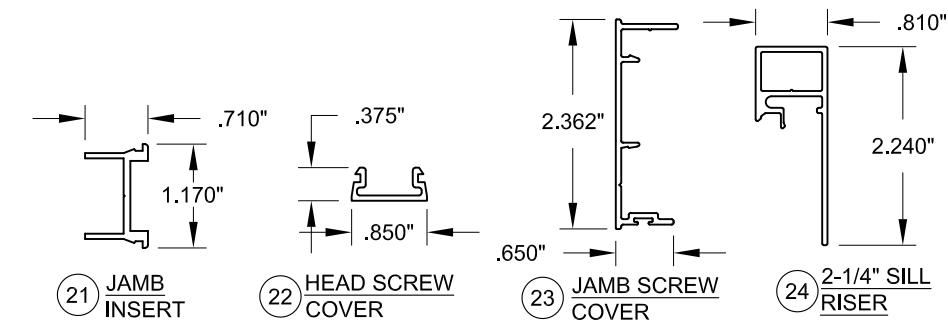
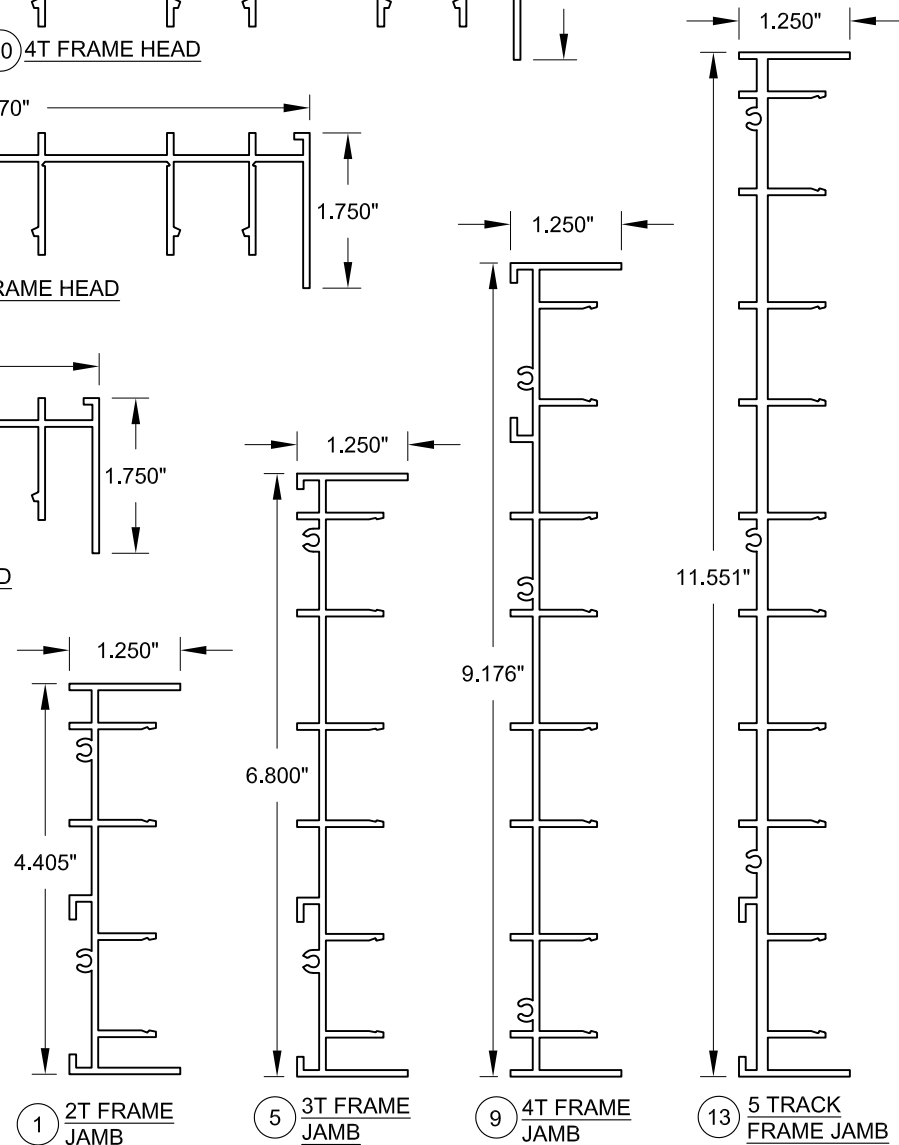
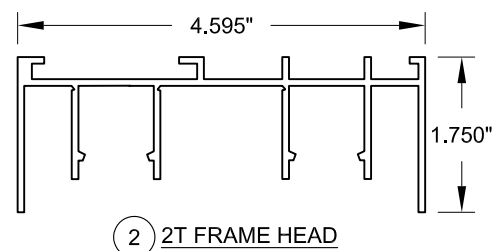
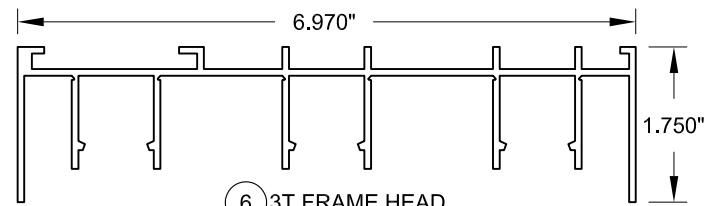
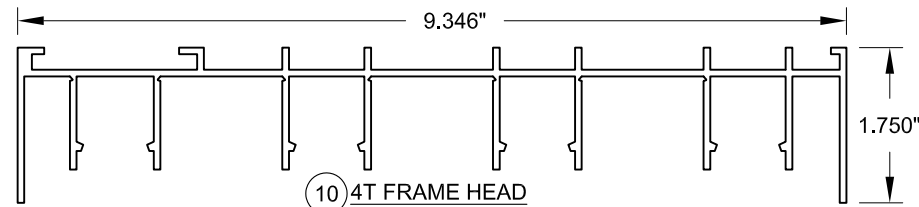
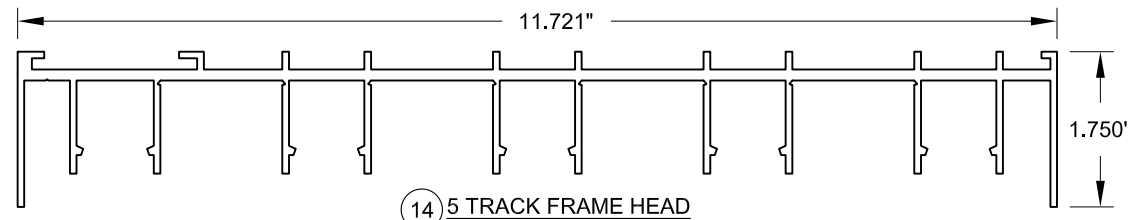
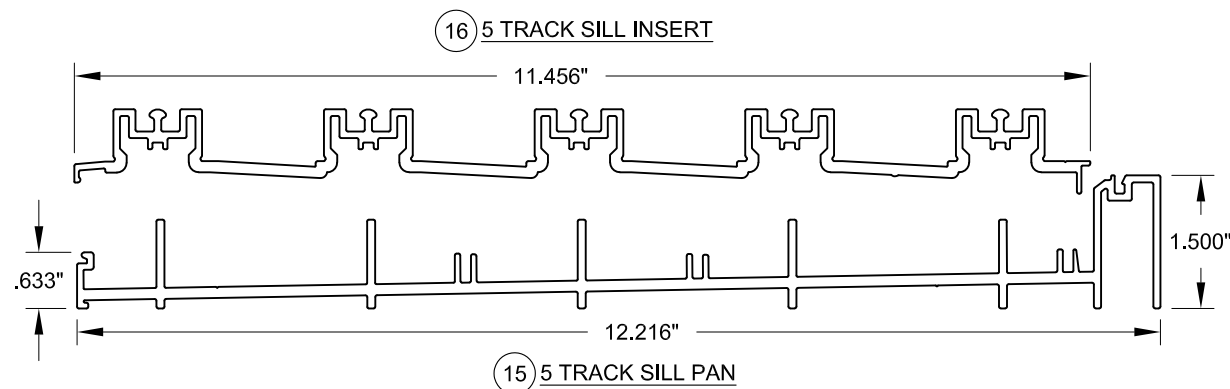
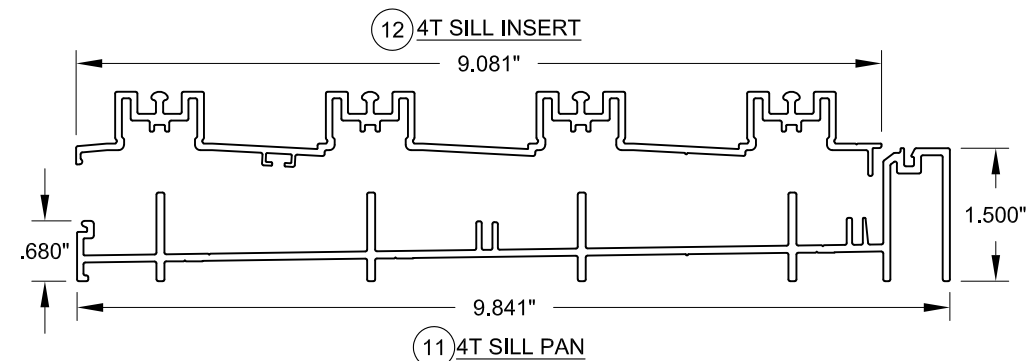
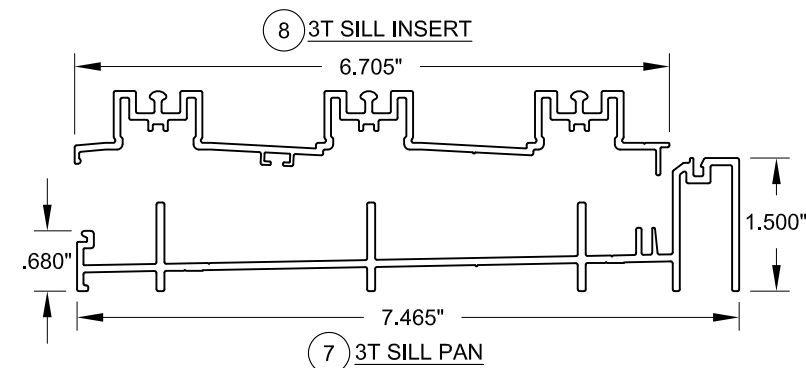
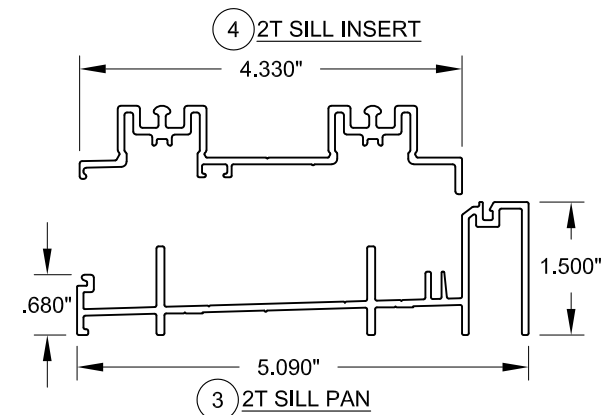
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ANCHOR LOCATIONS
XXXX SHOWN,
OTHER CONFIGURATIONS SIMILAR



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ANCHOR LOCATIONS		By JENS ROSOWSKI	Date
SGD8100A	5 OF 7	DWG No.	Rev.
		8100FPA-LM-5	

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	WINDOOR, LLC 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUM., ULTRA-NARROW ROLLER SGD (LM)	
	EXTRUSIONS		JENS ROSOWSKI	
	SGD8100A		8100FPA-LM-5	
Series	Desc.	Title	By	Rev.
6 OF 7	6 OF 7	6 OF 7	6 OF 7	6 OF 7

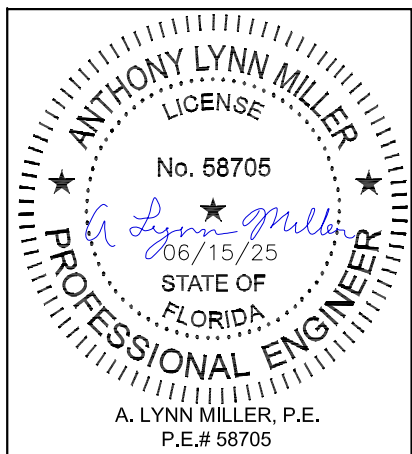


TABLE 3:

ITEM #	PART #	DESCRIPTION	MATERIAL
1	11002067	2T FRAME JAMB	ALUM. 6063-T6
2	11002068	2T FRAME HEAD	ALUM. 6063-T6
3	11044116	2T SILL PAN	ALUM. 6063-T6
4	11044122	2T SILL INSERT	ALUM. 6063-T6
5	11002181	3T FRAME JAMB	ALUM. 6063-T6
6	11002180	3T FRAME HEAD	ALUM. 6063-T6
7	11044123	3T SILL PAN	ALUM. 6063-T6
8	11044117	3T SILL INSERT	ALUM. 6063-T6
9	11002070	4T FRAME JAMB	ALUM. 6063-T6
10	11002071	4T FRAME HEAD	ALUM. 6063-T6
11	11044118	4T SILL PAN	ALUM. 6063-T6
12	11044124	4T SILL INSERT	ALUM. 6063-T6
13	11010444	5T FRAME JAMB	ALUM. 6063-T6
14	11010443	5T FRAME HEAD	ALUM. 6063-T6
15	11010446	5T SILL PAN	ALUM. 6063-T6
16	11010445	5T SILL INSERT	ALUM. 6063-T6
17	32005	TOP RAIL	ALUM. 6063-T6
18	32002	BOTTOM RAIL	ALUM. 6063-T6
19	32000	ULTRA-NARROW LOCKSTILE	ALUM. 6063-T6
20	32001	ULTRA-NARROW INTERLOCK	ALUM. 6063-T6
21	11002726	JAMB INSERT	ALUM. 6063-T6
22	11001882	HEAD SCREW COVER	ALUM. 6063-T6
23	11006679	JAMB SCREW COVER	ALUM. 6063-T6
24	12003652	2-1/4" SILL RISER	ALUM. 6063-T6
40	131018	#7 X 1" PH SMS (FRAME ASSEMBLY)	STAINLESS STEEL
41	710X1PHPT18.8X	#10 X 1" PH SDS @ PANEL RAIL TO LOCKSTILE	STAINLESS STEEL
42	71034FPTX	#10 X 1" FH SDS @ PANEL RAIL TO INTERLOCK	STAINLESS STEEL
43	131018	#8 X 3/8" PH TYPE B SMS @ SILL INSERT	STAINLESS STEEL
49	33005	MANUAL THROW LOCK	STAINLESS STEEL
50		MANUAL THROW LOCK SCREW (#8 X 1/2" FH)	STAINLESS STEEL
51		SHOOT BOLT (TOP & BOTTOM)	STAINLESS STEEL
52	32004	SHOOT BOLT THREADED ROD (LENGTH VARIES)	STAINLESS STEEL
53	32016	SHOOT BOLT CAP @ TOP RAIL	NYLON
54	32015	SHOOT BOLT CAP @ BOTTOM RAIL	NYLON
55	32013	FACE KEEPER	ALUM. 6063-T6
56	32014	HEAD KEEPER	ALUM. 6063-T6
57	32012	QUAD ROLLER	STAINLESS STEEL
58		QUAD ROLLER SCREW (#10 X 3/4" FH)	STAINLESS STEEL
59		WEEPHOLE COVER	
70		FINSEAL 0.187" X 0.230" @ PANEL STILES	
71		FINSEAL, 0.187" X 0.350" @ PANEL RAILS	
80	21005	GLAZING VINYL, 0.266" X 0.155"	VINYL 80-85 DURO.
81	121000	SETTING BLOCK, 1/8"X 1-1/4" X 2"	VINYL 80-85 DURO.
82		RGS 7700, SIKA 552, DOW 791 OR 983	SILICONE
83		IG GLASS SPACER	VARIES

WINDOOR

WINDOOR, LLC
104 TRIPLE DIAMOND BLVD
N VENICE, FL 34275
(833) 554-5432

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1070 TECHNOLOGY DRIVE
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(941) 480-1600

ALUM., ULTRA-NARROW ROLLER SGD (LM)

BILL OF MATERIALS

06/15/25

JENS ROSOWSKI

SGD8100A

7 OF 7

8100FPA-LM-5

Series

Desc.

Title

No.

DWG

Rev.

ANTHONY LYNN MILLER
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No. 58705
06/15/25
STATE OF
FLORIDA
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P.E.# 58705