

SERIES SGD670 NON-IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING POCKETS & 90° / 135° CORNERS

IMPACT RATING
NOT RATED FOR MISSILE IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES 1, 2 & 3 ON SHEETS 6, 7 & 8

FLORIDA PRODUCT APPROVAL #33106

- GLAZING TYPE OPTIONS: SEE TABLE B, THIS SHEET & GLAZING DETAILS ON SHEETS 4 & 5.
- DESIGN PRESSURES:
 - NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.
 - POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.
 - DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- ANCHORAGE: THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE. FOR ANCHORAGE DETAILS SEE SHEETS 6-14.
- SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- INSTALLATION SCREWS, FRAME SPLICES, FRAME AND PANEL CORNERS TO BE SEALED WITH NARROW JOINT SEALANT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- REFERENCES: ELCO ULTRACON, DEWALT ULTRACON+, DEWALT/ELCO CRETEFLEX AND AGGREGATOR NOA'S, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM, ALUMINUM DESIGN MANUAL.
- THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.
- TEST REPORTS: FTL-5254, FTL-5979, FTL-5980, FTL-5987, FTL-5994, FTL-6002, FTL-6034, FTL-6035, FTL-7554 AND ATI 72138.01-1401-18

TABLE A:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 18-8 SMS or #12 410 SS SMS (min. of 3 threads beyond metal substrate)	All	Southern Pine (SG = 0.55)	9/16"	7/8"	1-3/8"
			6063-T5 Aluminum	3/8"	9/16"	0.071" (20 Ga)
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
	1/4" DeWalt/Elco Aggre-Gator®	All	Concrete (min. 2.22 ksi)	1-1/2"	3"	1-3/8"
			Jamb / P-hook Filled Block (ASTM C90)	2"	3"	2"
Jamb / P-hook Hollow Block (ASTM C90)			2"	3"	1-1/4"	
B	#12 Steel SMS (Gr. 5) (min. of 3 threads beyond metal substrate)	All	Southern Pine (SG = 0.55)	9/16"	7/8"	1-3/8"
			6063-T5 Aluminum	3/8"	9/16"	0.071" (20 Ga)
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
C	1/4" Elco UltraCon®	All	Concrete (min. 2.85 ksi)	1"	4"	1-3/8"
		Jamb / P-hook	Hollow Block (ASTM C90)	1"	6"	1-1/4"
	1/4" DeWalt UltraCon® +	Head / Sill	Concrete (min. 3 ksi)	1-5/16"	4"	1-3/8"
		Jamb / P-hook	Concrete (min. 3 ksi)	1"	4"	1-3/8"
		Jamb / P-hook	Hollow Block (ASTM C90)	1"	3"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	1"	1-3/8"
		Jamb / P-hook	Hollow Block (ASTM C90)	1"	3"	1-1/4"
D	1/4" Elco UltraCon®	All	Concrete (min. 2.85 ksi)	2-1/2"	4"	1-3/8"
		Jamb / P-hook	Filled Block (ASTM C90)	2-1/2"	4"	1-3/4"
		Jamb / P-hook	Hollow Block (ASTM C90)	2-1/2"	6"	1-1/4"
	1/4" 410 SS DeWalt/Elco CreteFlex®	Head / Sill	Concrete (min. 3.35 ksi)	1"	4"	1-3/4"
		Jamb / P-hook	Concrete (min. 3.35 ksi)	1"	6"	1-3/4"
		Jamb / P-hook	Hollow Block (ASTM C90)	2-1/2"	6"	1-1/4"
All	Southern Pine (SG = 0.55)	1"	1"	1-3/8"		

- 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.
- ALL ANCHOR HEAD TYPES ARE APPLICABLE.
- FOR THE MINIMUM STRENGTHS OF ANCHORS AND SUBSTRATES, SEE TABLE 5, SHEET 20.
- HOLLOW BLOCK VALUES MAY ALSO BE USED IN FILLED BLOCK APPLICATIONS.
- ANCHORS MUST BE OF SUFFICIENT LENGTH SO THAT A MINIMUM OF 3 THREADS EXTEND BEYOND METAL SUBSTRATE.

ANCHOR NOTES

- FOR CONCRETE/CMU, SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A, THIS SHEET.
- WOOD BUCKS DEPICTED AS 1X ARE LESS THAN 1-1/2" THICK. PROPERLY SECURED, 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. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD & TO BE REVIEWED BY THE BUILDING OFFICIAL.
- METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
- 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.

TABLE B:

Glass Type	Description (Listed from Exterior to Interior)
G1	3/16" TP
G1A	1/4" TP
G2	1" IG (3/16" TP Cap - Airspace - 3/16" TP)
G2A	1" IG (1/4" TP Cap - Airspace - 1/4" TP)
G3	7/16" LAMI (3/16" HS - .090" PVB - 3/16" HS)
G4	1" LIG (3/16" TP Cap - Airspace - 3/16" AN - .090" SG - 3/16" AN)
G5	1" LIG (3/16" TP Cap - Airspace - 3/16" HS - .090" SG - 3/16" HS)

PVB = KURARAY TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.
 SG = KURARAY SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.
 AN = ANNEALED
 HS = HEAT-STRENGTHENED
 TP = TEMPERED

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Revision: NEW FPA. GLASS TYPES G3-G5 ARE NEW TO SGD670. EK - 01/28/22

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

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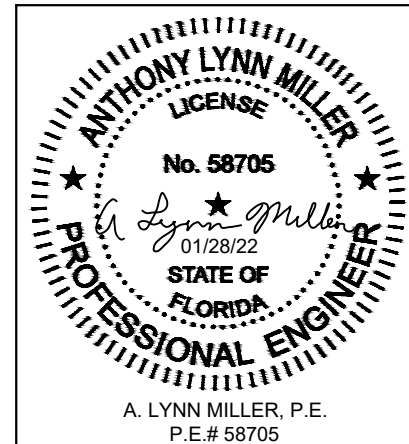
ALUM. SLIDING GLASS DOOR INSTALL. (NI)
 01/28/22

ERIN KOSS
 Drawn By

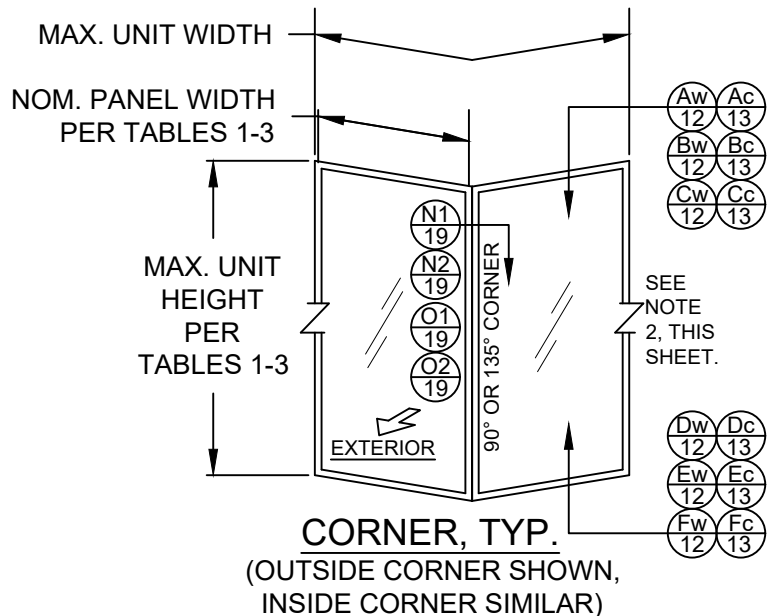
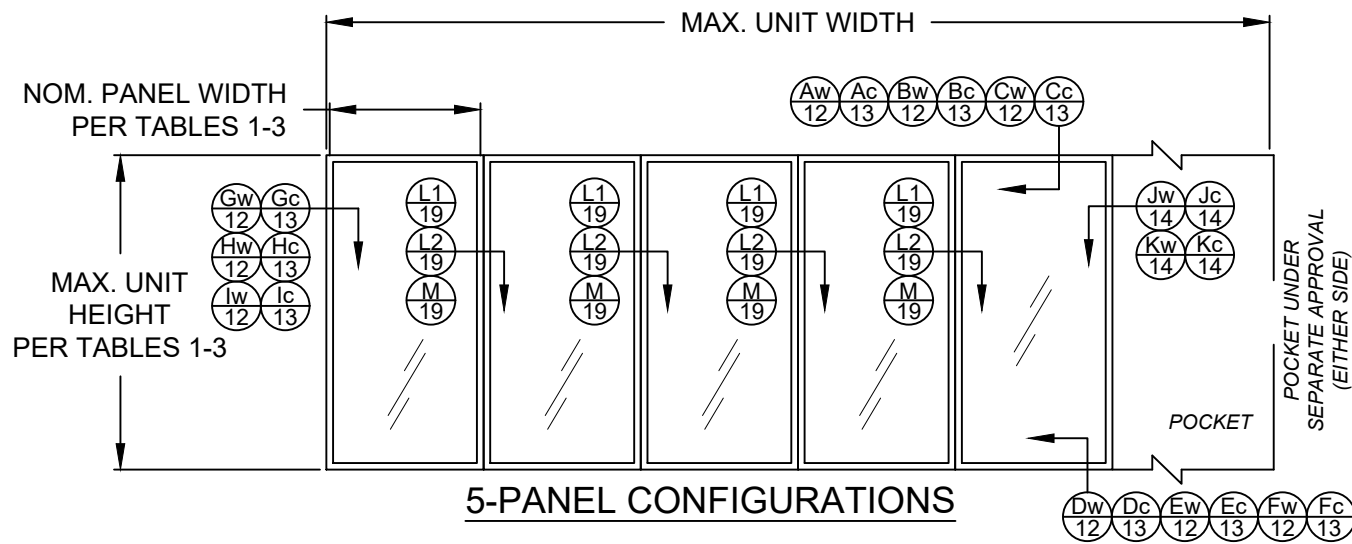
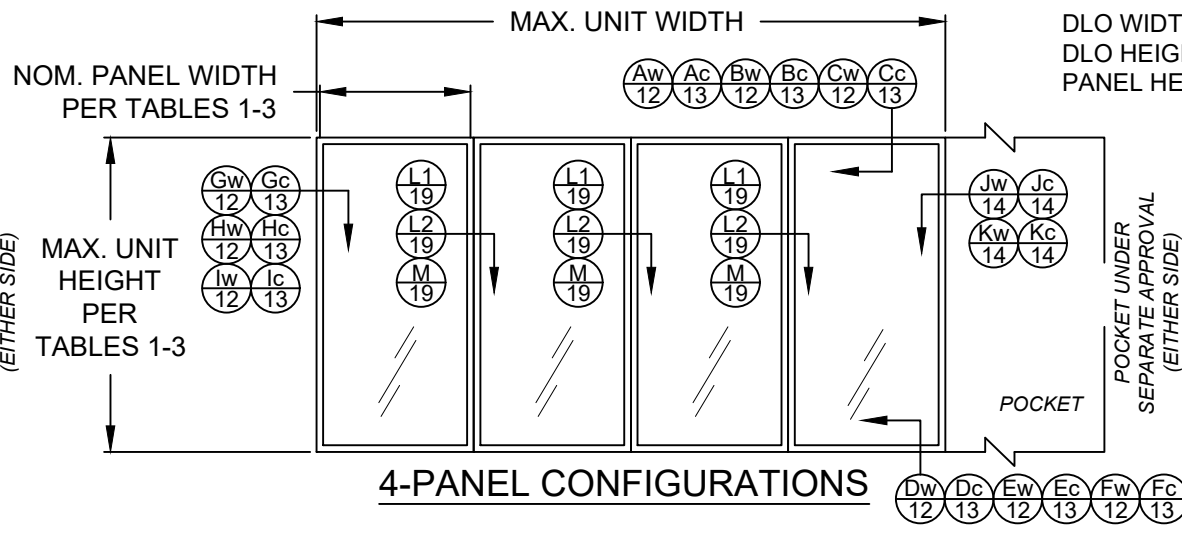
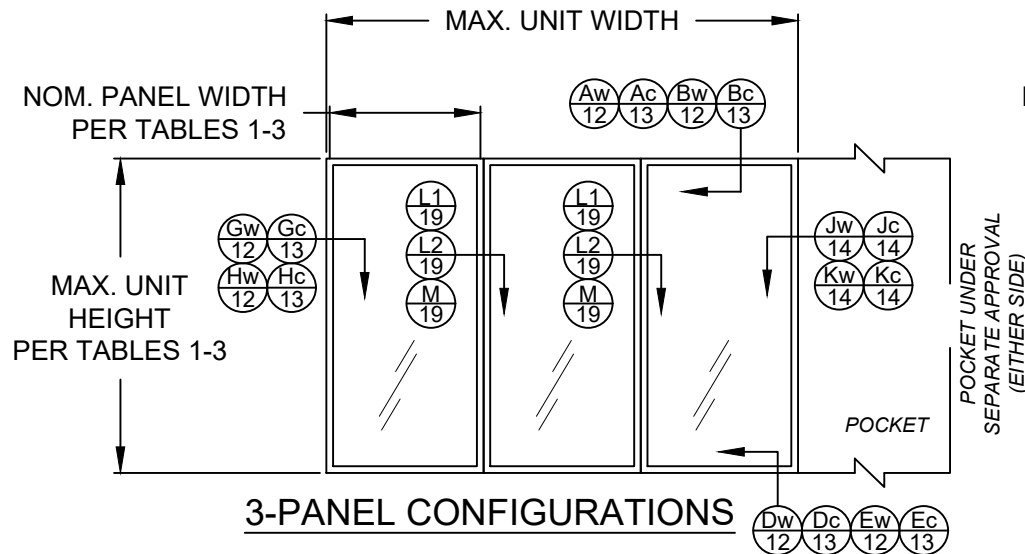
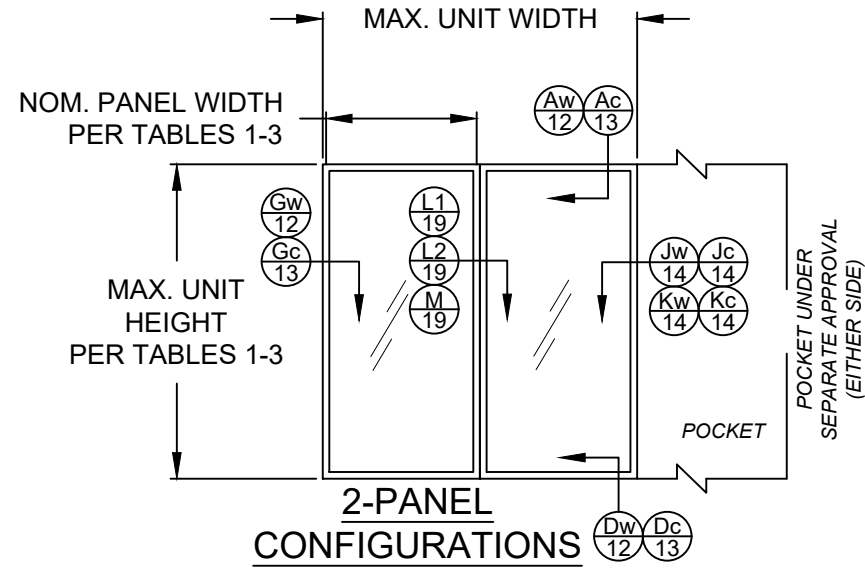
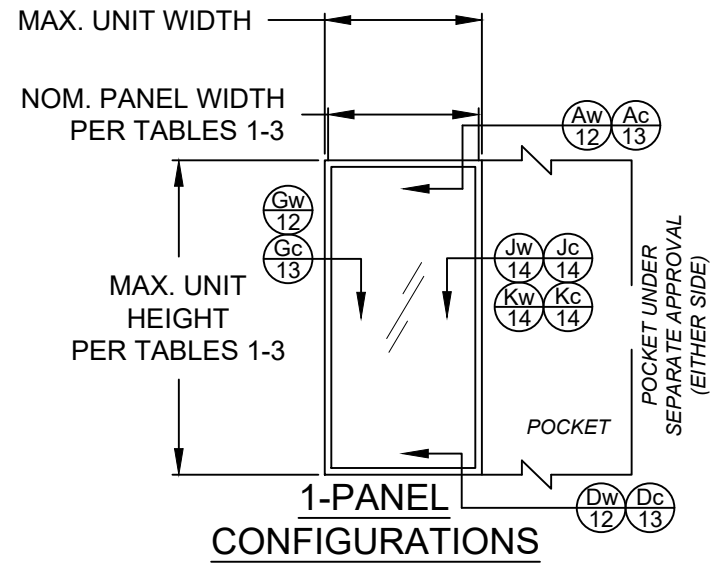
SGD670-FPA
 Rev.

SGD-670
 1 OF 22
 Sheet

GENERAL NOTES

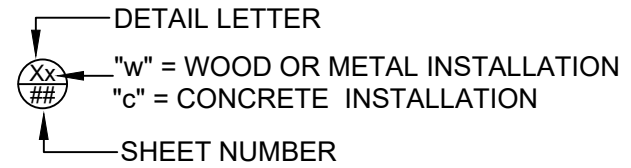


EXAMPLE CONFIGURATIONS



CONFIGURATIONS NOTES:

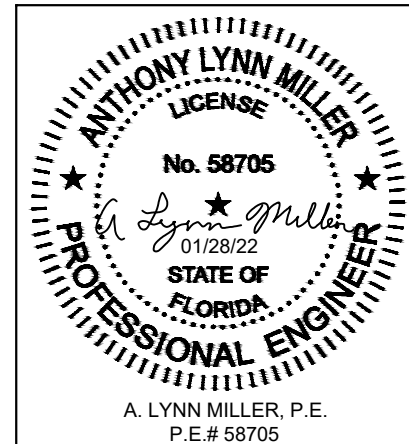
- 1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Jw", "Jc", "Kw" OR "Kc" INSTALLATION.
EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.
 - 2) 90° & 135° CORNER CONFIGURATIONS CAN BE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.
 - 3) FOR NOM. PANEL WIDTH, SEE TABLES 1-3.
- "X" = OPERABLE PANEL,
"O" = INOPERABLE PANEL,
"p" = POCKET



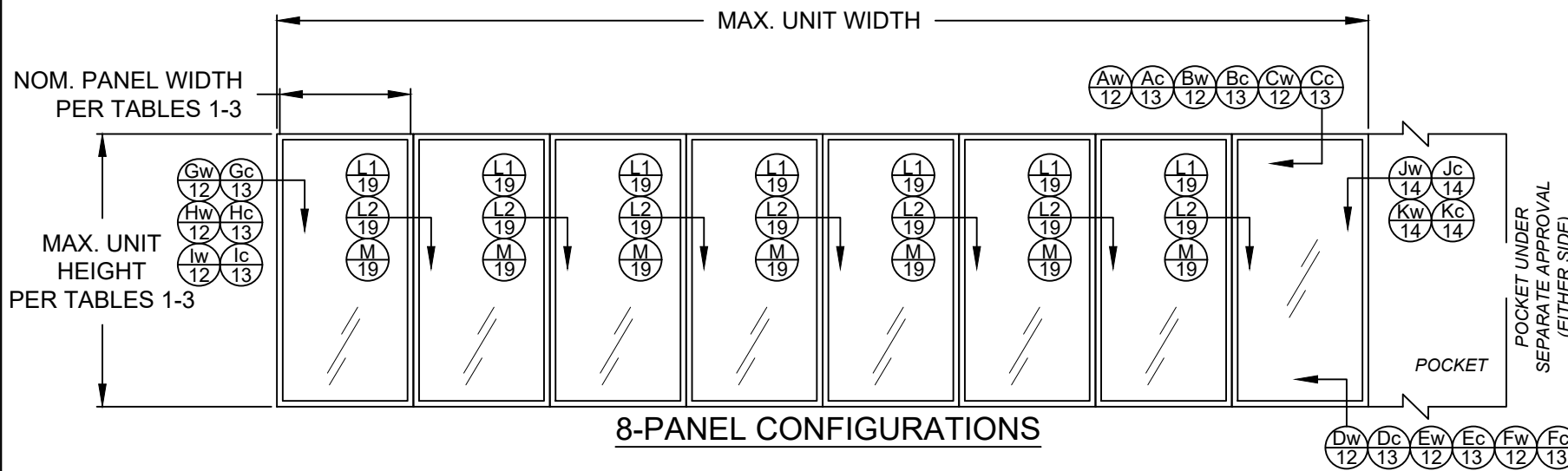
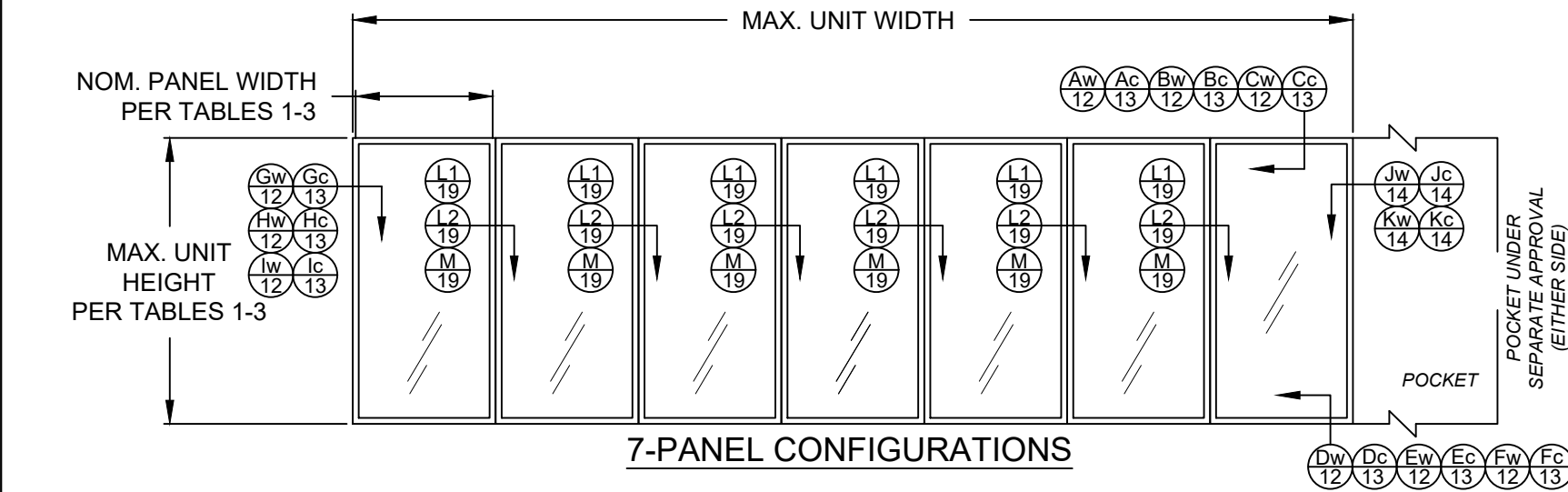
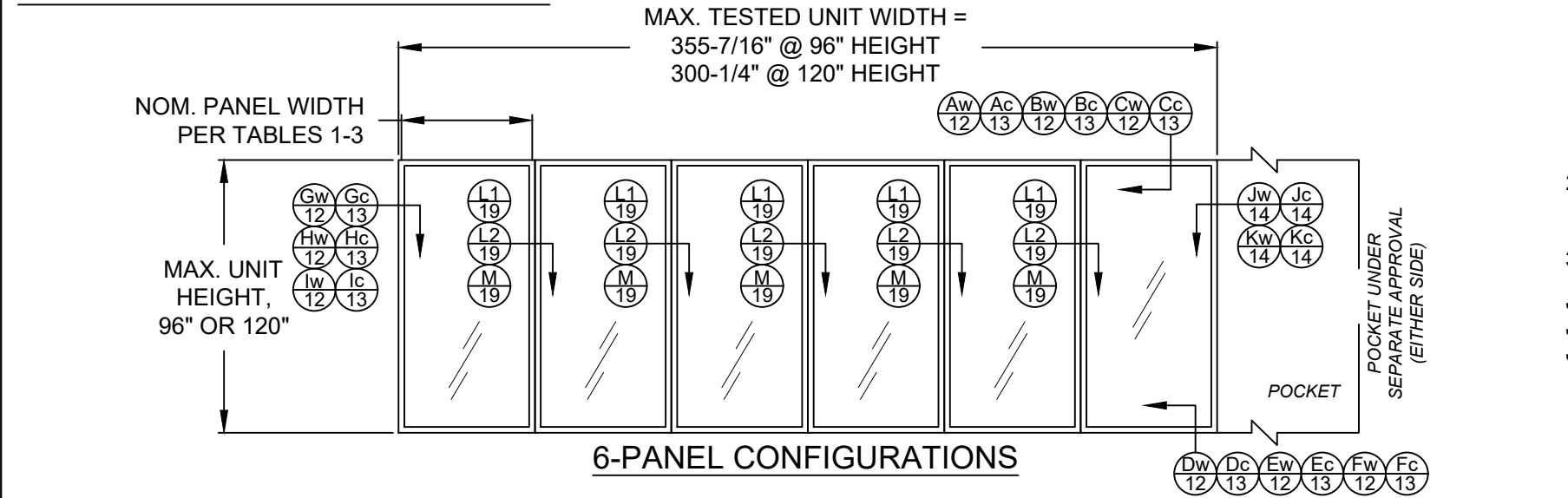
DLO WIDTH = NOM. PANEL WIDTH - 7"
DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"

Revision:

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ALUM. SLIDING GLASS DOOR INSTALL. (NI)		ERIN KOSS		Drawn By	SGD670-FPA
EXAMPLE CONFIGURATIONS		2 OF 22		DWG No.	-
SGD-670		Sheet			

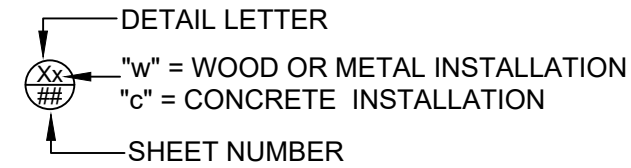


EXAMPLE CONFIGURATIONS



CONFIGURATIONS NOTES:

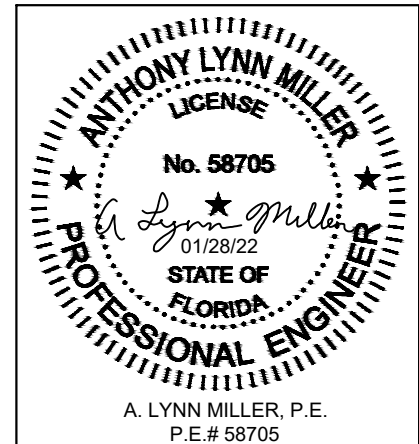
- 1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS USING DETAIL "Jw", "Jc", "Kw" OR "Kc" INSTALLATION.
EXAMPLE: 4-PANEL XXXX IN POCKET (p) CONFIGURATION CAN BE pXXXXp, pXXXX OR XXXXp. OXXX IN POCKET CONFIGURATION CAN BE OXXXp.
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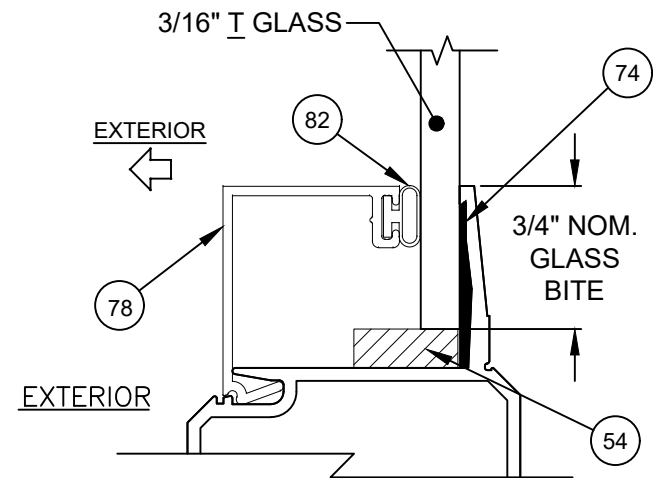
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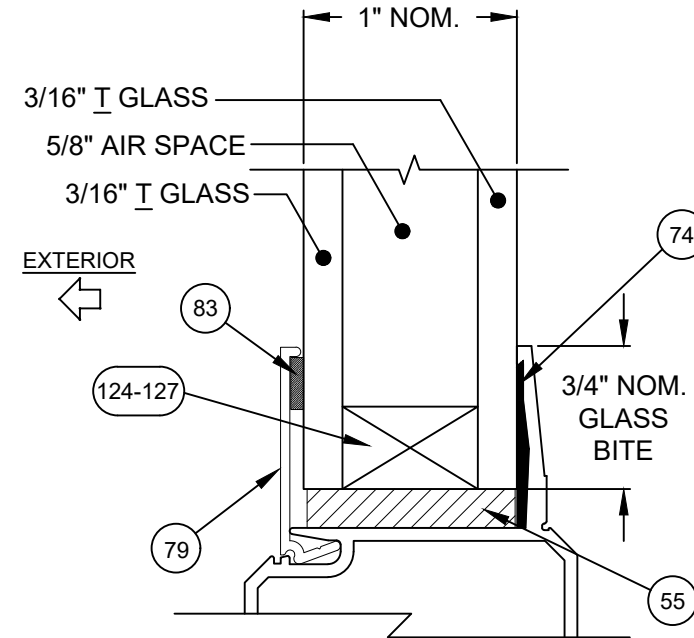
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EXAMPLE CONFIGURATIONS		3 OF 22		DWG No.	
SGD-670				Sheet	
				Series Desc.	



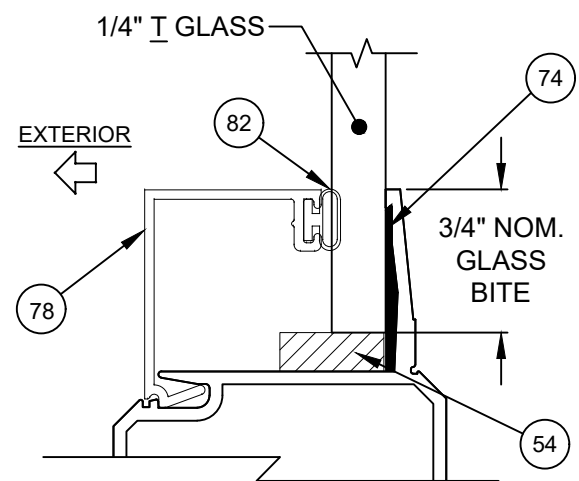
GLAZING DETAILS G1, G1A, G2, G2A



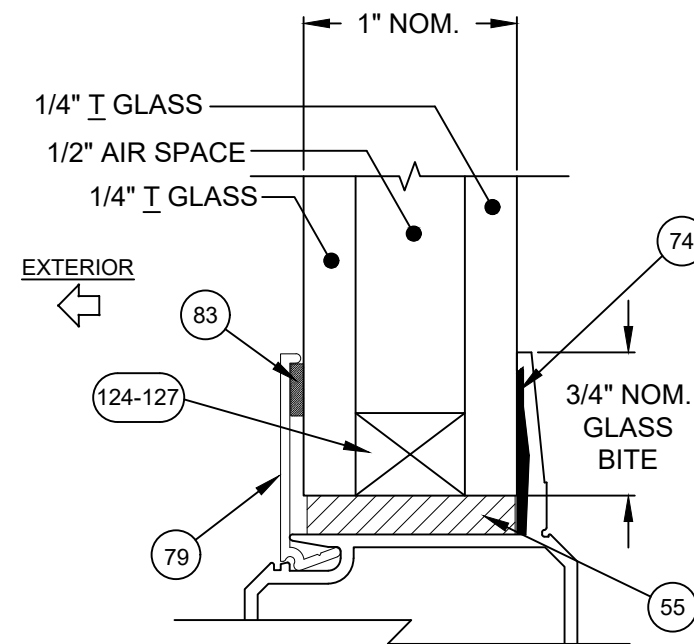
3/16" TEMPERED GLASS, TYPE G1



1" IG GLASS, TYPE G2



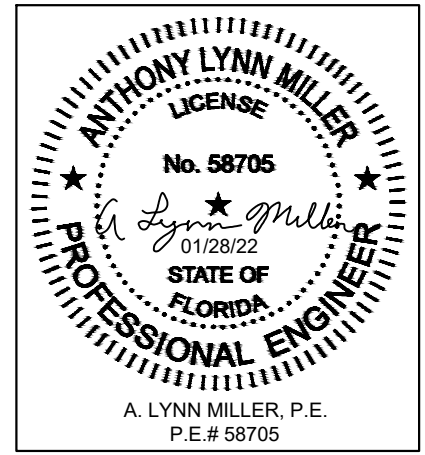
1/4" TEMPERED GLASS, TYPE G1A



1" IG GLASS, TYPE G2A

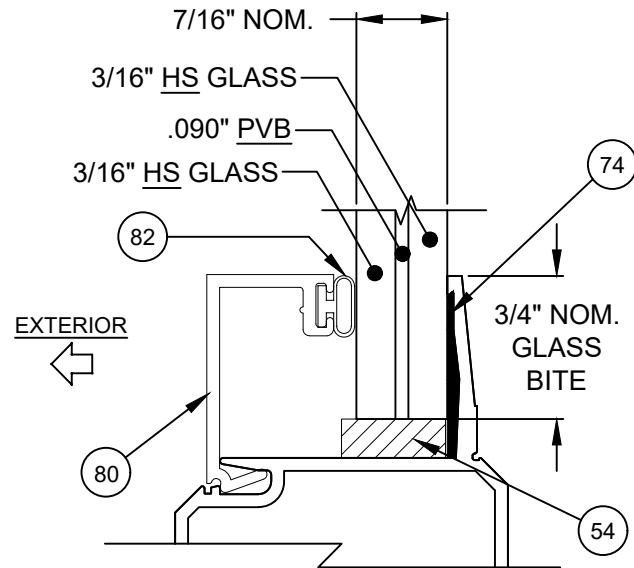
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No.	SGD670-FPA	Rev.	-
ALUM. SLIDING GLASS DOOR INSTALL. (NI)		REGISTRATION #29296	
GLASS TYPES		4 OF 22	
Series	SGD-670	Sheet	4 OF 22

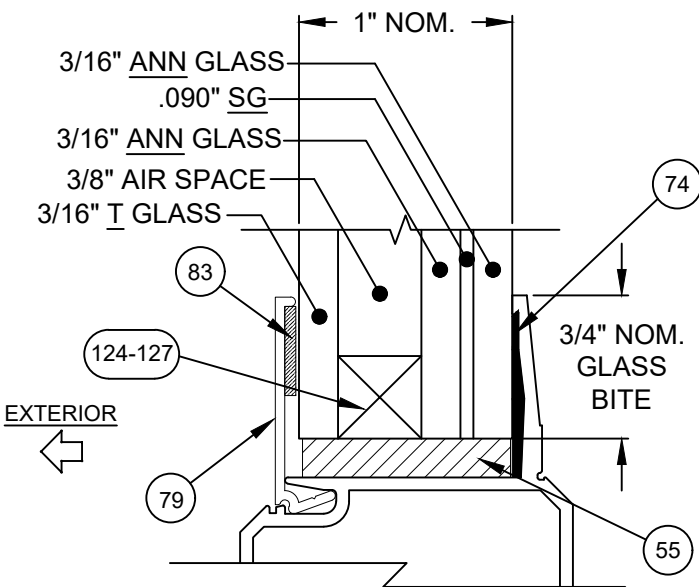


A. LYNN MILLER, P.E.
P.E.# 58705

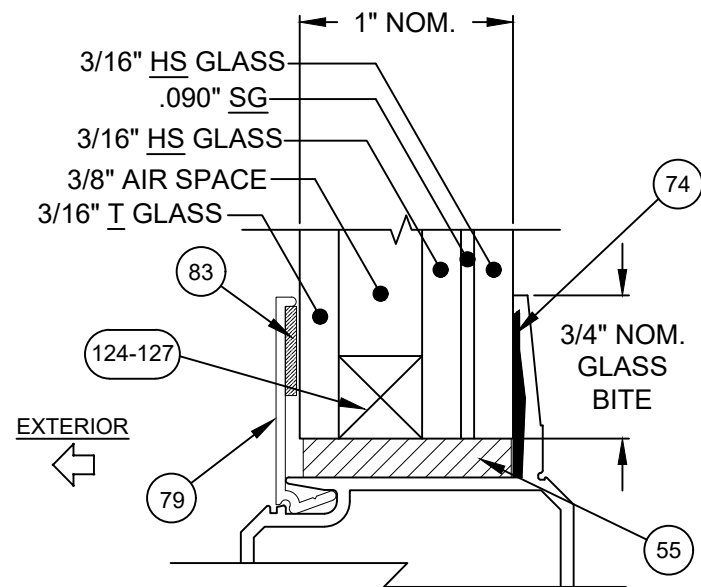
GLAZING DETAILS G3, G4, G5



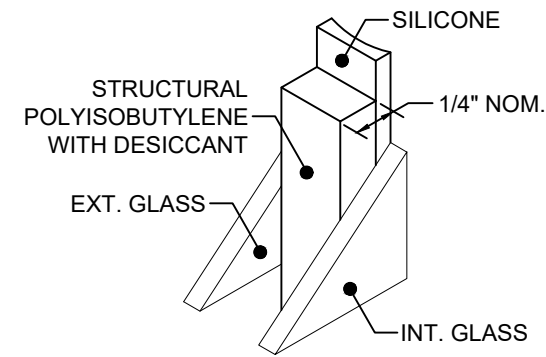
7/16" LAMINATED GLASS, TYPE G3



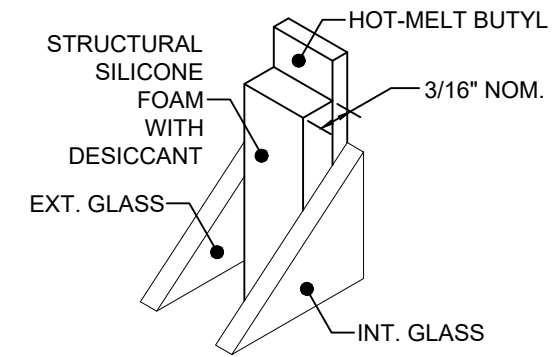
1" LAMINATED IG GLASS, TYPE G4



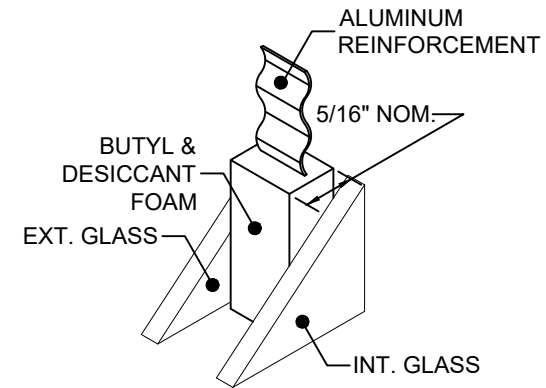
1" LAMINATED IG GLASS, TYPE G5



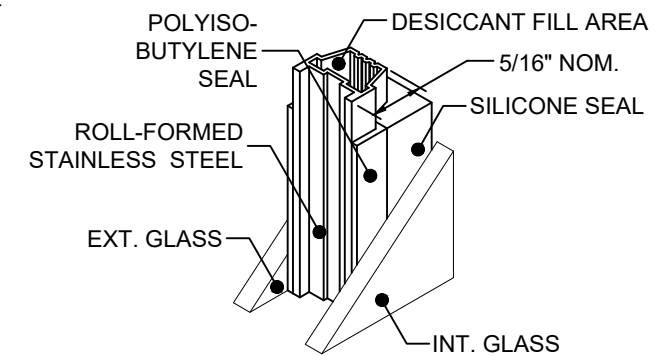
124 KODISPACE 4SG TPS



125 SUPER SPACER[®] NXT[™]



126 DURASEAL[®] SPACER



127 XL EDGE[™] SPACER

Part #	Description	Material
124	Kommerling 4SG TPS Spacer System	See this Sheet for Materials
125	Quanex Super Spacer nXT with Hot Melt Butyl	
126	Quanex Duraseal	
127	Cardinal XL Edge Spacer	

REFERENCE TEST REPORTS: FTL-8717, 8968 & 8970

Revision:

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REGISTRATION #29296

ALUM. SLIDING GLASS DOOR INSTALL. (NI)

DATE: 01/28/22

BY: ERIN KOSS

DWG No. SGD670-FPA

Sheet 5 OF 22

Series Desc. Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
01/28/22
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 1:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)																	
For corner astragal anchorage on 90° or 135° corner units, see sheet 11																	
Table applies to all Glass types and the Stile/Astragal types shown below. Positive (+) DP may be limited by Table 1A.		Door Unit Height															
		80"				84"				90"				96"			
		69-7/8" DLO				73-7/8" DLO				79-7/8" DLO				85-7/8" DLO			
		Anchor Group				Anchor Group				Anchor Group				Anchor Group			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Nominal Panel Width	24"	17" DLO	<i>Design Pressure</i>														
			+90.0 / -127.1														
			Head/Sill				C4+1				C4+1				C4+1		
			Jamb				10				8				8		
	P-hook				6+7				6+7				6+7				
	30"	23" DLO	<i>Design Pressure</i>														
			+90.0 / -106.3														
			Head/Sill				C4+1				C4+1				C4+1		
			Jamb				10				8				8		
	P-hook				6+7				6+7				6+7				
	36"	29" DLO	<i>Design Pressure</i>														
			+90.0 / -92.9														
Head/Sill				C4+1				C4+1				C4+1					
Jamb				10				8				8					
P-hook				6+7				6+7				6+7					
42"	35" DLO	<i>Design Pressure</i>															
		+83.7 / -83.7															
		Head/Sill				C4+2				C4+2				C4+1			
		Jamb				10				8				8			
P-hook				6+7				6+7				6+7					
48"	41" DLO	<i>Design Pressure</i>															
		+77.1 / -77.1															
		Head/Sill				C4+2				C4+2				C4+2			
		Jamb				10				8				8			
P-hook				6+7				6+7				6+7					
54"	47" DLO	<i>Design Pressure</i>															
		+72.5 / -72.5															
		Head/Sill				C4+2				C4+2				C4+2			
		Jamb				10				8				8			
P-hook				6+7				6+7				6+7					
60"	53" DLO	<i>Design Pressure</i>															
		+69.1 / -69.1															
		Head/Sill				C4+3				C4+2				C4+2			
		Jamb				10				8				8			
P-hook				6+7				6+7				6+7					

FOR EXAMPLE ON USING TABLE, SEE SHEET 7.

DLO WIDTH = NOM. PANEL WIDTH - 7"
 DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"

THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 1, SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

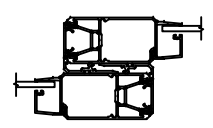
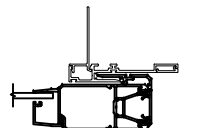
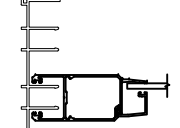
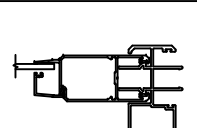
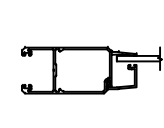
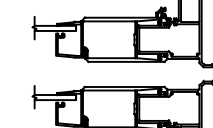
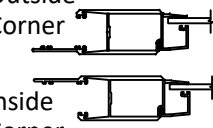

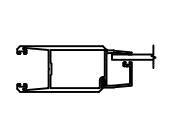
Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Standard Stiles	Standard Stile	Standard Stile	Standard Stile	Standard Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
								
Part #60 (x2)	Part #60	Part #60	Part #60 (Stile) Part #67 (Astragal)	Part #60	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

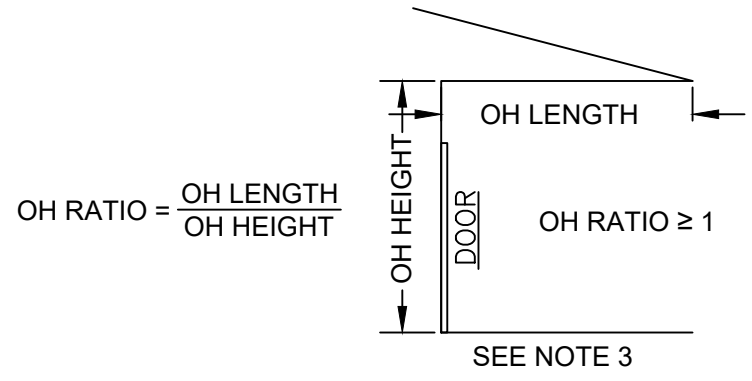
TABLE 1A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 90.0

SEE NOTES 1-3


NOTES:

- 1) POSITIVE PRESSURES IN TABLE 1 ARE BASED ON THE USE OF THE 4" SILL.
- 2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 90.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 1A.
- 3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 1 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
- 4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
- 5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
- 6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.



Revision:	
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1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	PGT INDUSTRIES, INC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	01/28/22	ERIN KOSS	SGD670-FPA
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 REGISTRATION #29296 ALUM. SLIDING GLASS DOOR INSTALL. (NI)	ERIN KOSS DP AND ANCHORAGE	Date	01/28/22
		Drawn By	ERIN KOSS
Series	SGD-670	DWG No.	6 OF 22
Sheet	SGD-670		

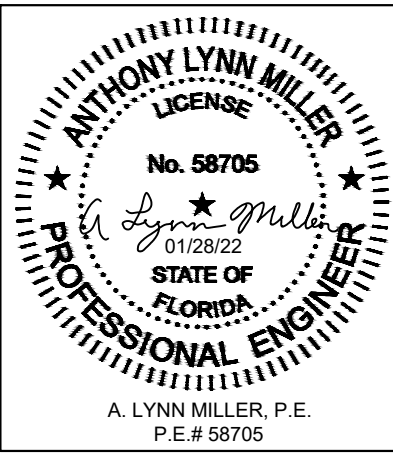


TABLE 2:

Table applies to all Glass types and the Stile/Astragal types shown below. Positive (+) DP may be limited by Table 2A.		Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)																																	
		For corner astragal anchorage on 90° or 135° corner units, see sheet 11																																	
		Door Unit Height																																	
		80"				84"				90"				96"				102"				108"				114"				120"					
69-7/8" DLO				73-7/8" DLO				79-7/8" DLO				85-7/8" DLO				91-7/8" DLO				97-7/8" DLO				103-7/8" DLO				109-7/8" DLO							
Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group				Anchor Group											
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
Nominal Panel Width	24"	17" DLO	Design Pressure	+90.0 / -140.0				+90.0 / -133.0				+90.0 / -122.0				+90.0 / -114.0				+90.0 / -106.0				+90.0 / -99.0				+90.0 / -93.0				+88.0 / -88.0			
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
			Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	30"	23" DLO	Design Pressure	+90.0 / -141.8				+90.0 / -133.6				+90.0 / -122.9				+90.0 / -113.8				+90.0 / -105.9				+90.0 / -99.1				+90.0 / -93.1				+87.8 / -87.8			
			Head/Sill	C5+2	C5+2	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1
			Jamb	12	10	8	8	12	10	8	8	12	10	8	8	12	10	8	8	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10
	36"	29" DLO	Design Pressure	+90.0 / -123.9				+90.0 / -116.4				+90.0 / -106.7				+90.0 / -98.5				+90.0 / -91.4				+85.3 / -85.3				+80.0 / -80.0				+75.3 / -75.3			
			Head/Sill	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1
			Jamb	12	10	8	8	12	10	8	8	12	10	8	8	12	10	8	8	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10
	42"	35" DLO	Design Pressure	+90.0 / -111.6				+90.0 / -104.5				+90.0 / -95.4				+87.8 / -87.8				+81.3 / -81.3				+75.7 / -75.7				+70.8 / -70.8				+66.5 / -66.5			
			Head/Sill	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+1	C5+1	C5+1	C5+1	C5+1	C5+1
			Jamb	12	10	8	8	12	10	8	8	12	10	8	8	12	10	8	8	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10
48"	41" DLO	Design Pressure	+90.0 / -102.9				+90.0 / -96.0				+87.3 / -87.3				+80.0 / -80.0				+73.8 / -73.8				+68.6 / -68.6				+64.0 / -64.0								
		Head/Sill	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	C5+2	
		Jamb	12	10	8	8	12	10	8	8	12	10	8	8	12	10	8	8	12	10	10	10	12	10	10	10	12	10	10	10	12	10	10	10	
54"	47" DLO	Design Pressure	+83.0 / -83.0				+77.2 / -77.2				+69.8 / -69.8				+63.8 / -63.8				Not available in these sizes																
		Head/Sill	C4+3	C4+3	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2																	
		Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8																	
60"	53" DLO	Design Pressure	+79.2 / -79.2				+73.3 / -73.3				+66.0 / -66.0				+60.0 / -60.0																				
		Head/Sill	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2																	
		Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8																	

EXAMPLE ON SHEET 9

TABLE 2A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 90.0

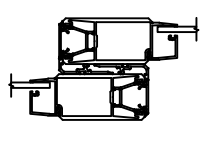
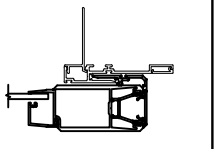
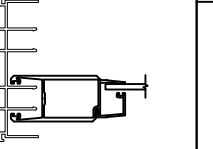
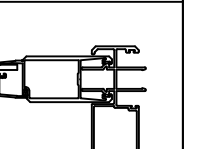
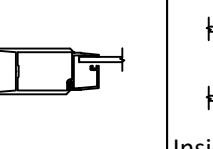
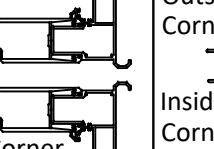
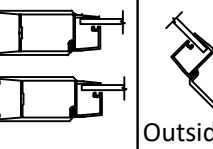
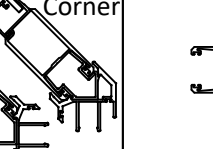
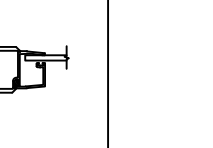
SEE NOTES 1-3

DLO WIDTH =
NOM. PANEL WIDTH - 7"

DLO HEIGHT =
DOOR UNIT HEIGHT - 10.125"

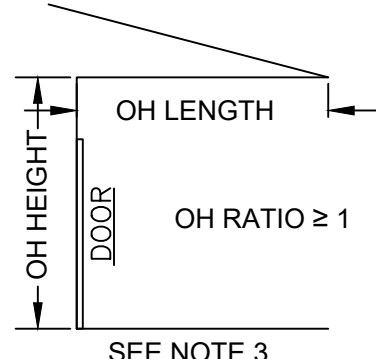
PANEL HEIGHT =
DOOR UNIT HEIGHT - 1.866"

THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 2, SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Heavy-duty Stiles	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
								
Part #61 (x2)	Part #61	Part #61	Part #61 (Stile) Part #67 (Astragal)	Part #61	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

NOTES:

- 1) POSITIVE PRESSURES IN TABLE 2 ARE BASED ON THE USE OF THE 4" SILL.
- 2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 90.0 PSF MAX (NEGATIVE PRES. UNCHANGED). SEE TABLE 2A.
- 3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 2 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FBC (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
- 4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
- 5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
- 6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.



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ALUM. SLIDING GLASS DOOR INSTALL. (NI) 01/28/22

ERIN KOSS

SGD670-FPA

7 OF 22

SGD-670

ANTHONY LYNN MILLER
LICENSE
No. 58705
01/28/22
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 3:

Table applies Glass types G1, G1A, G2 & G2A and the Stile/Astragal types shown below. Positive (+) DP may be limited by Table 3A.		Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheets 2 & 3)																	
		For corner astragal anchorage on 90° or 135° corner units, see sheet 11																	
		Door Unit Height																	
		80"				84"				90"				96"					
69-7/8" DLO				73-7/8" DLO				79-7/8" DLO				85-7/8" DLO							
Anchor Type				Anchor Type				Anchor Type				Anchor Type							
A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
Nominal Panel Width	24"	17" DLO	Design Pressure	+90.0 / -140.0				+90.0 / -133.0				+90.0 / -122.0				+90.0 / -114.0			
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1
			Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8
	P-hook	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8		
	30"	23" DLO	Design Pressure	+90.0 / -159.5				+90.0 / -150.3				+90.0 / -138.2				+90.0 / -128			
			Head/Sill	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+1	C5+1	C6+1	C6+1	C5+1	C5+1
			Jamb	14	12	8	8	14	12	8	8	14	12	8	8	14	12	8	8
	P-hook	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10		
	36"	29" DLO	Design Pressure	+90.0 / -139.4				+90.0 / -130.9				+90.0 / -120				+90.0 / -110.8			
			Head/Sill	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2
			Jamb	14	12	8	8	14	12	8	8	14	12	8	8	14	12	8	8
	P-hook	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10		
42"	35" DLO	Design Pressure	+90.0 / -125.5				+90.0 / -117.6				+90.0 / -107.3				+90.0 / -98.7				
		Head/Sill	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	
		Jamb	14	12	8	8	14	12	8	8	14	12	8	8	14	12	8	8	
P-hook	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10			
48"	41" DLO	Design Pressure	+90.0 / -115.7				+90.0 / -108				+90.0 / -98.2				+90.0 / -90				
		Head/Sill	C6+3	C6+3	C5+3	C5+3	C6+3	C6+3	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	C6+2	C6+2	C5+2	C5+2	
		Jamb	14	12	8	8	14	12	8	8	14	12	8	8	14	12	8	8	
P-hook	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10	9+10			
54"	47" DLO	Design Pressure	+83 / -83				+77.2 / -77.2				+69.8 / -69.8				+62.6 / -62.6				
		Head/Sill	C4+3	C4+3	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	
		Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8	
P-hook	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8			
60"	53" DLO	Design Pressure	+79.2 / -79.2				+73.3 / -73.3				+66 / -66				+58 / -58				
		Head/Sill	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+3	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	
		Jamb	10	8	8	8	10	8	8	8	10	8	8	8	10	8	8	8	
P-hook	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8	7+8			

FOR EXAMPLE ON USING TABLE, SEE SHEET 7.

DLO WIDTH = NOM. PANEL WIDTH - 7"

DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"

PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"

THE FOLLOWING STILE & ASTRAGAL TYPES SHALL BE USED FOR TABLE 3, SEE SHEETS 21 & 22 FOR PART DIMENSIONS AND SHEETS 18 & 19 FOR ASSEMBLY DETAILS.

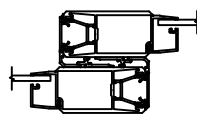
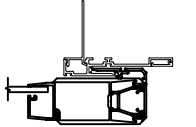
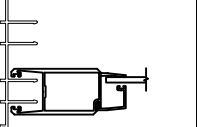
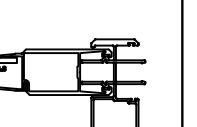
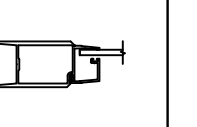
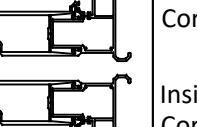
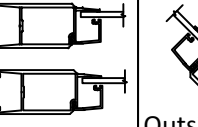
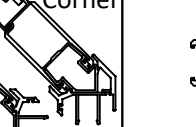
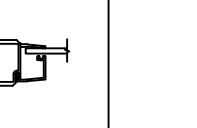
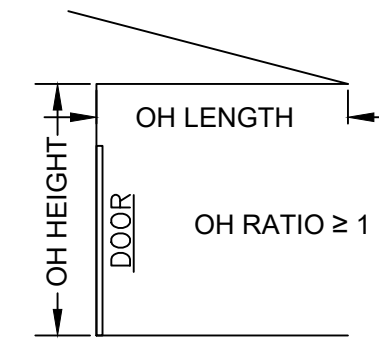
Interlock	P-hook	Lockstile @ Jamb	Straight Astragal Assembly	Lockstile @ Straight Astragal	90° Astragal Assembly	Lockstile @ 90° Astragal	135° Astragal Assembly	Lockstile @ 135° Astragal
Heavy-duty Stiles	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile	Heavy-duty Stile
								
Part #61 (x2)	Part #61	Part #61	Part #61 (Stile) Part #68 (Astragal)	Part #61	Part #61 (Stile) Part #118 (Corner Receiver)	Part #119 (Out.) Part #120 (In.)	Part #61 (Stile) Parts #31 & #32 (Corn. & Fxd Mount)	Part #61

TABLE 3A:

Sill Height to Max. (+) DP (Water Infiltration Rating)	
Sill Riser Height (Flat or Box, see Sheet 17)	(+) Design Pressure, psf
Flush - 1-1/2"	see note 3
Low - 2-1/2"	+ 46.67
Medium - 3-1/4"	+ 60.0
High - 4"	+ 90.0

SEE NOTES 1-3



$$OH\ RATIO = \frac{OH\ LENGTH}{OH\ HEIGHT}$$

NOTES:

- 1) POSITIVE PRESSURES IN TABLE 3 ARE BASED ON THE USE OF THE 4" SILL.
- 2) WHEN USING THE 2-1/2" SILL, POSITIVE WATER DP IS 46.67 PSF MAX. WHEN USING THE 3-1/4" SILL, POSITIVE WATER DP IS 60.0 PSF MAX. WHEN USING THE 4" SILL, POSITIVE WATER DP IS 90.0 PSF MAX (NEGATIVE PRESSURES UNCHANGED). SEE TABLE 3A.
- 3) 4", 3-1/4" AND 2-1/2" SILL HEIGHTS ARE TESTED FOR WATER INFILTRATION WHEREAS THE 1-1/2" SILL IS NOT AND MUST ONLY BE USED WHERE WATER RESISTANCE IS NOT REQUIRED. MAX. POSITIVE DESIGN PRESSURES SHOWN IN TABLE 3 MAY BE USED WHEN THE DOOR IS PROTECTED BY AN OVERHANG COMPLYING WITH THE CURRENT FLORIDA BUILDING CODE (SEE ADJACENT DIAGRAM); THIS CONDITION IS NOT RATED FOR WATER INFILTRATION.
- 4) SEE SHEETS 10-14 FOR ANCHORAGE SPACING, EDGE DISTANCE AND EMBEDMENT INFORMATION.
- 5) DOOR SIZE TO COMPLY WITH CURRENT FBC EGRESS REQUIREMENTS WHEN REQUIRED.
- 6) JAMB ANCHORS ARE SPECIFIED AS THE TOTAL QUANTITY, DIVIDE BY 2 FOR PAIRS TO BE INSTALLED.

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REGISTRATION #29296

ALUM. SLIDING GLASS DOOR INSTALL. (NI) 01/28/22

Drawn By: ERIN KOSS
Date: 01/28/22

DP AND ANCHORAGE

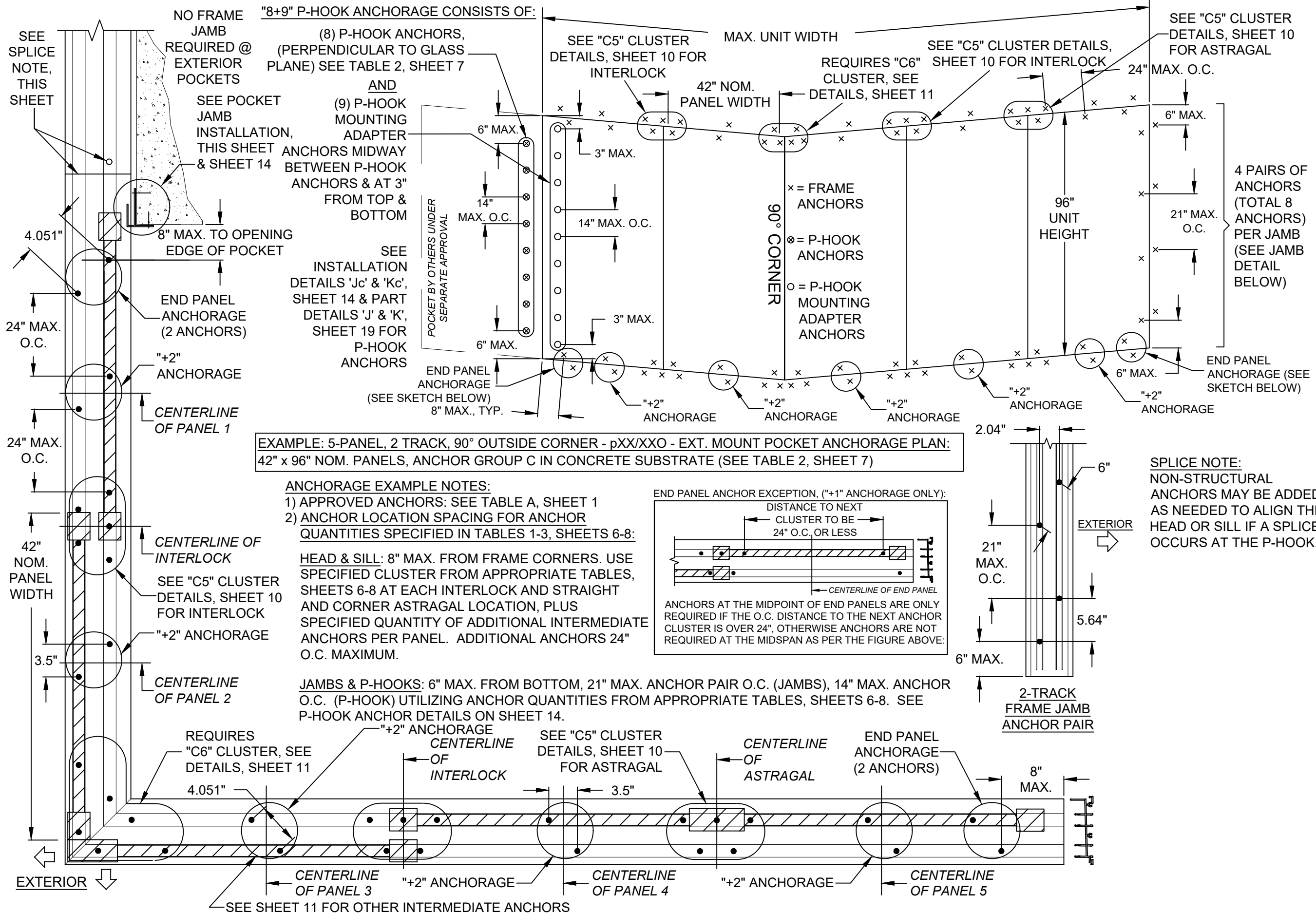
SGD-670

8 OF 22

SGD670-FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
01/28/22
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

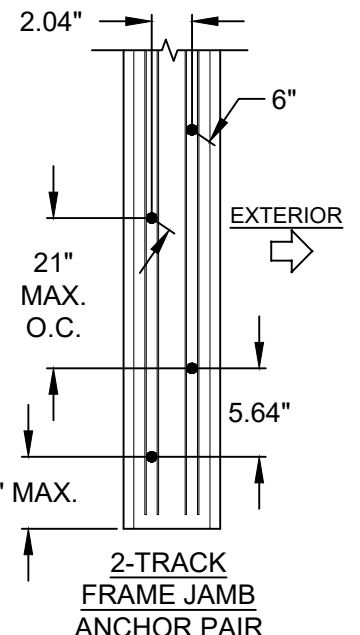
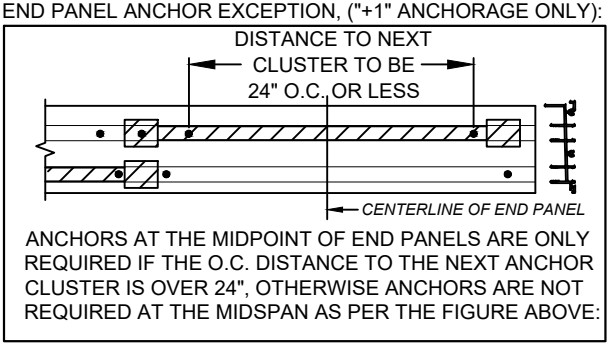


EXAMPLE: 5-PANEL, 2 TRACK, 90° OUTSIDE CORNER - pXX/XXO - EXT. MOUNT POCKET ANCHORAGE PLAN: 42" x 96" NOM. PANELS, ANCHOR GROUP C IN CONCRETE SUBSTRATE (SEE TABLE 2, SHEET 7)

- ANCHORAGE EXAMPLE NOTES:**
- 1) APPROVED ANCHORS: SEE TABLE A, SHEET 1
 - 2) ANCHOR LOCATION SPACING FOR ANCHOR QUANTITIES SPECIFIED IN TABLES 1-3, SHEETS 6-8:

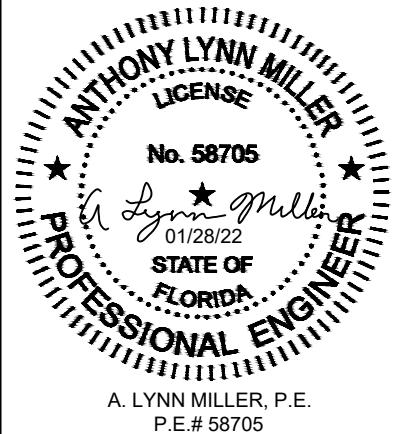
HEAD & SILL: 8" MAX. FROM FRAME CORNERS. USE SPECIFIED CLUSTER FROM APPROPRIATE TABLES, SHEETS 6-8 AT EACH INTERLOCK AND STRAIGHT AND CORNER ASTRAGAL LOCATION, PLUS SPECIFIED QUANTITY OF ADDITIONAL INTERMEDIATE ANCHORS PER PANEL. ADDITIONAL ANCHORS 24" O.C. MAXIMUM.

JAMBS & P-HOOKS: 6" MAX. FROM BOTTOM, 21" MAX. ANCHOR PAIR O.C. (JAMBS), 14" MAX. ANCHOR O.C. (P-HOOK) UTILIZING ANCHOR QUANTITIES FROM APPROPRIATE TABLES, SHEETS 6-8. SEE P-HOOK ANCHOR DETAILS ON SHEET 14.

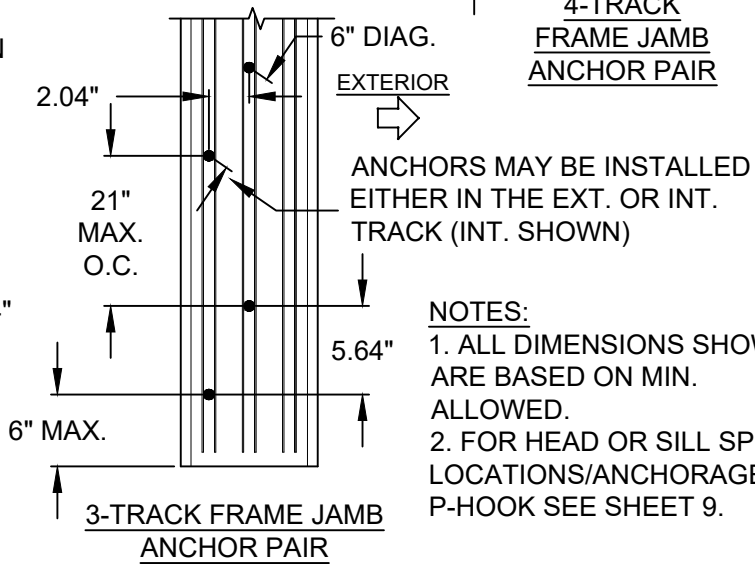
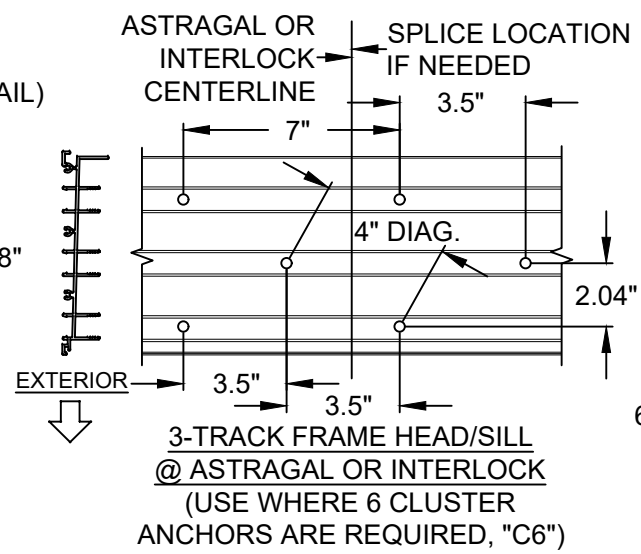
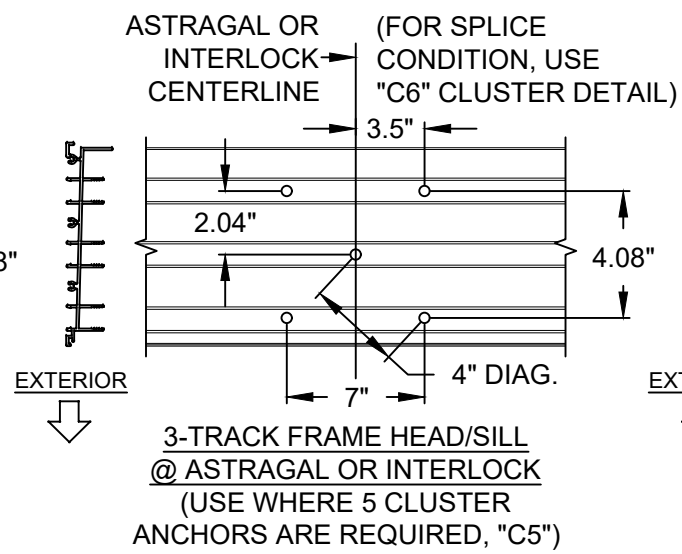
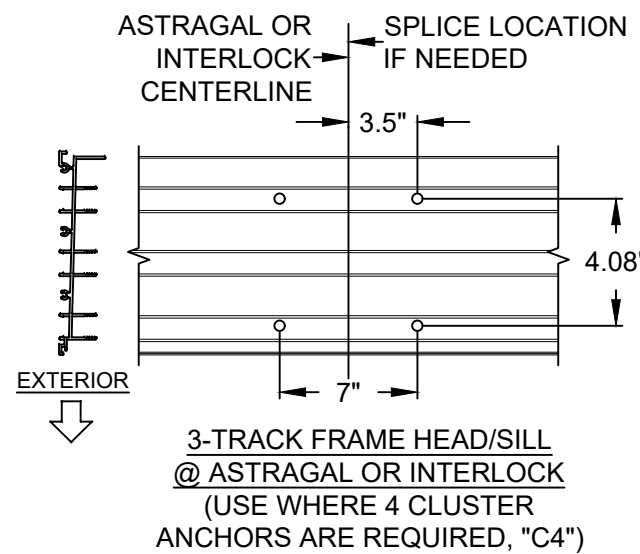
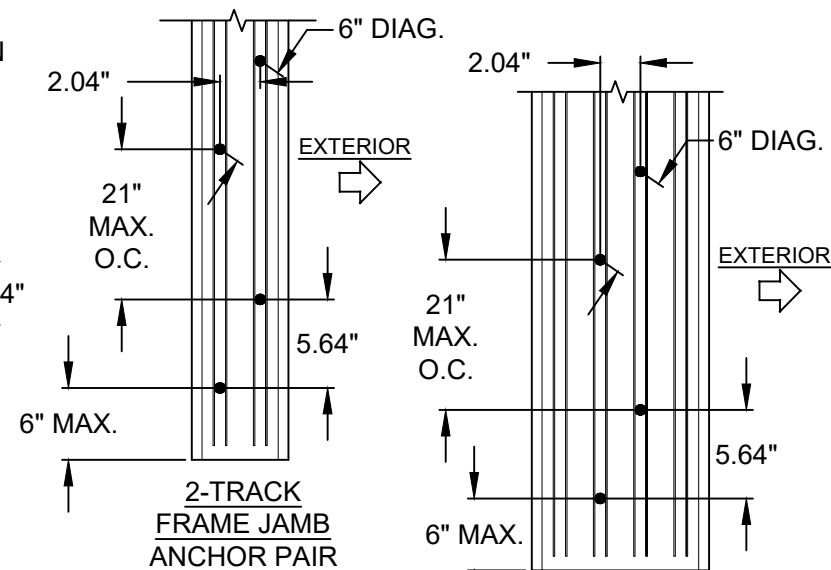
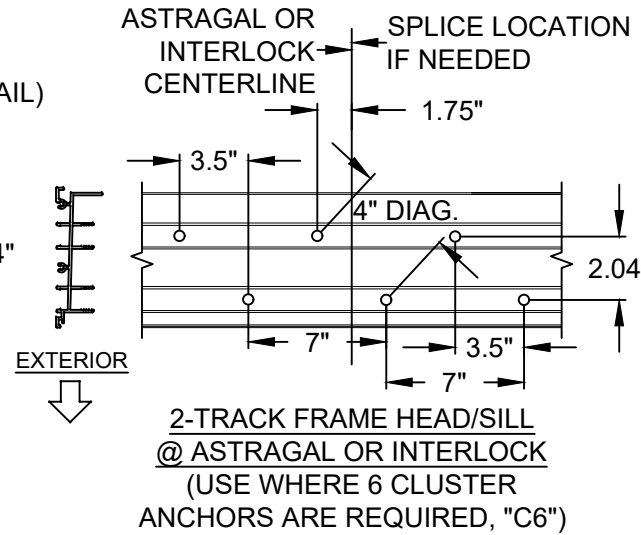
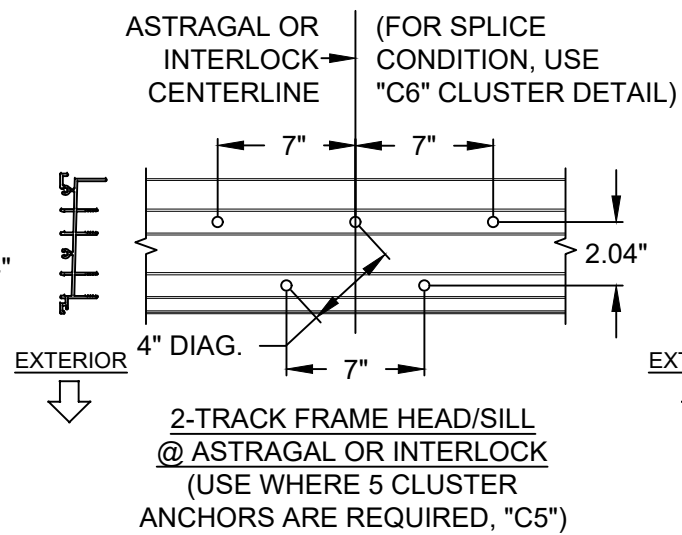
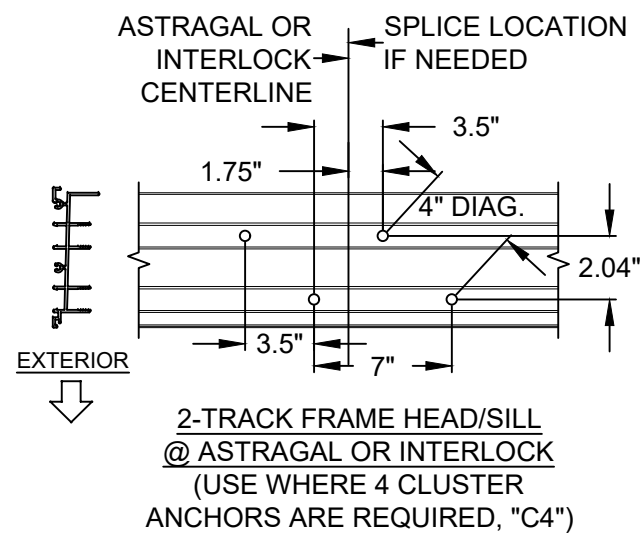


SPLICE NOTE:
NON-STRUCTURAL ANCHORS MAY BE ADDED AS NEEDED TO ALIGN THE HEAD OR SILL IF A SPLICE OCCURS AT THE P-HOOK.

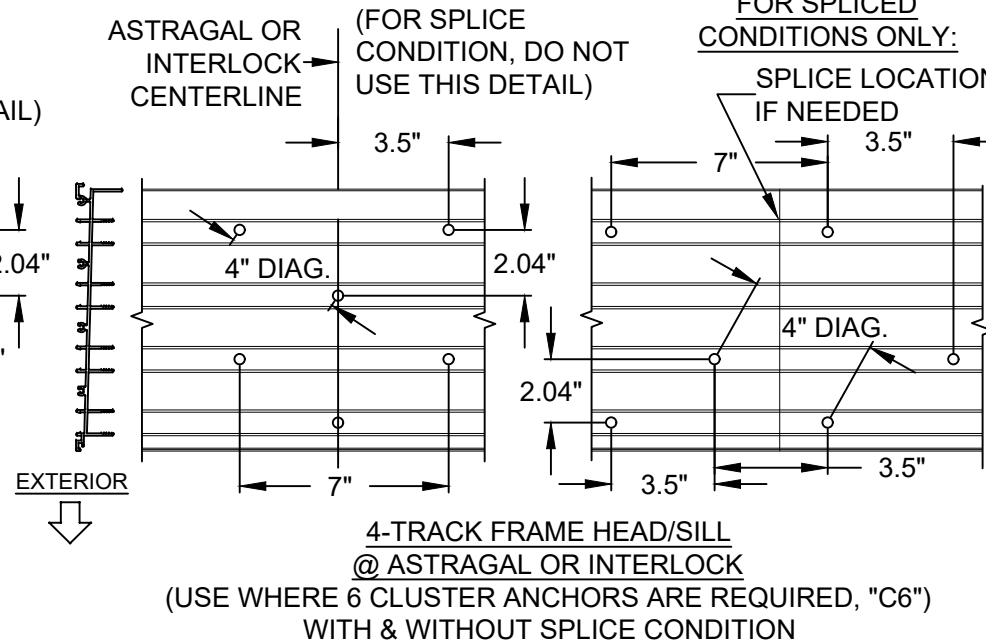
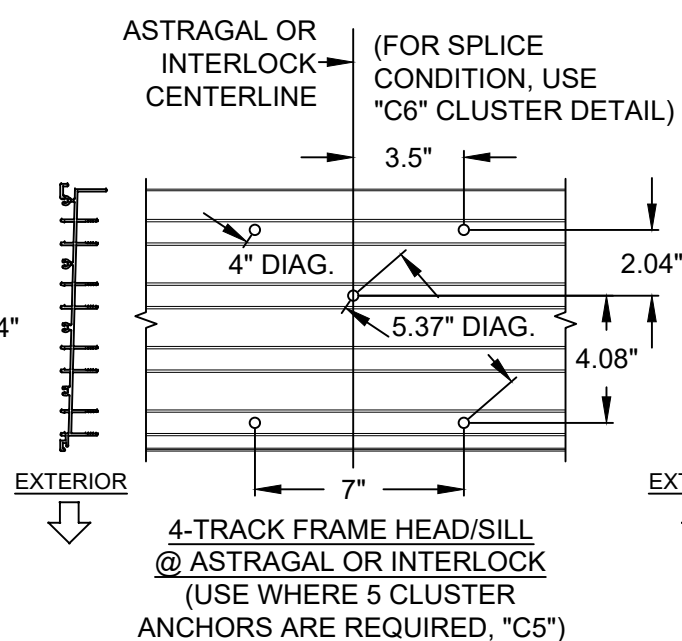
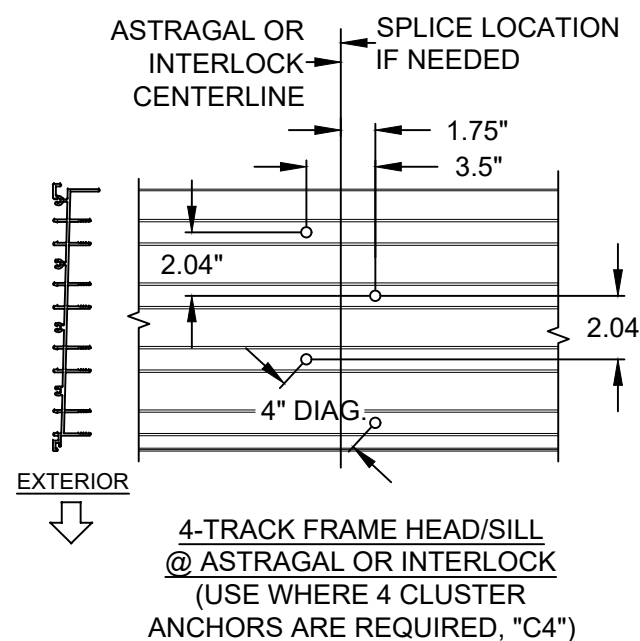
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941)480-1600		01/28/22	
ALUM. SLIDING GLASS DOOR INSTALL. (NI)		By	ERIN KOSS
ANCHOR SPACING & EXAMPLE		DWG No.	SGD670-FPA
SGD-670		Sheet	9 OF 22
		Series	SGD-670



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P.E.# 58705

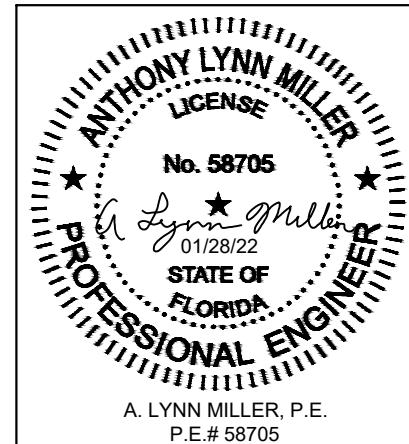


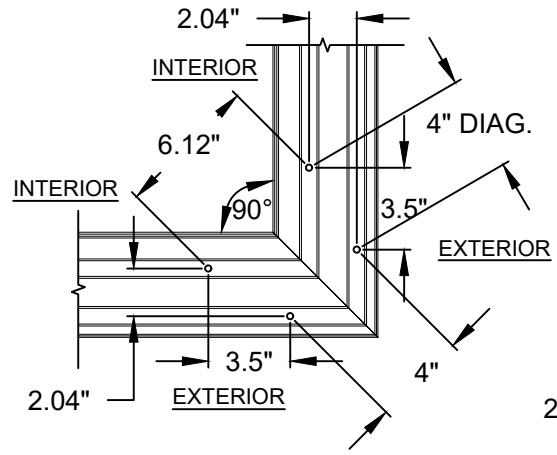
NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. FOR HEAD OR SILL SPLICE LOCATIONS/ANCHORAGE AT P-HOOK SEE SHEET 9.



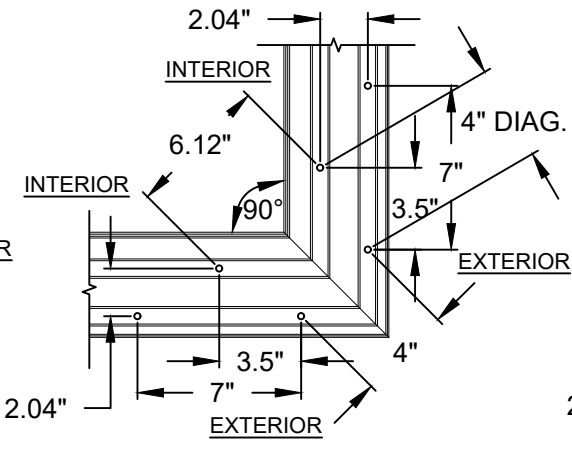
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ALUM. SLIDING GLASS DOOR INSTALL. (NI)		ERIN KOSS		By	SGD670-FPA		
ANCHORAGE - CLUSTERS		10 OF 22		DWG No.			
SGD-670		Sheet					

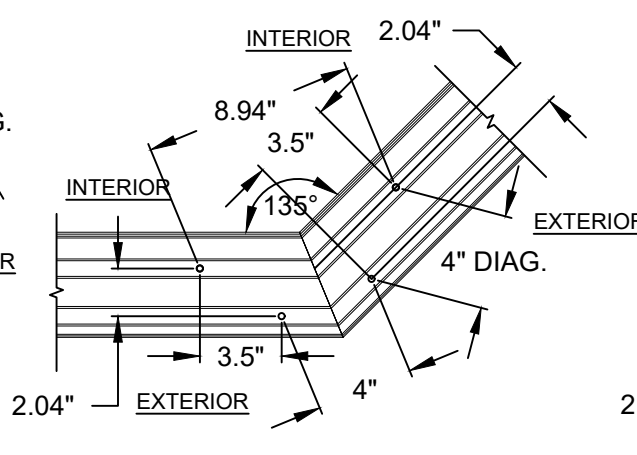




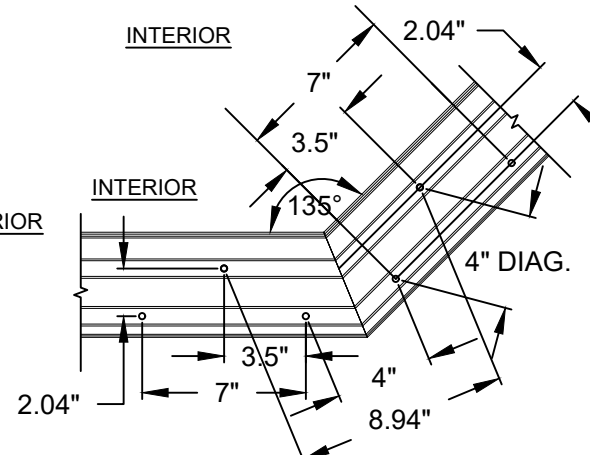
90° CORNER
2-TRACK FRAME HEAD/SILL
 (USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



90° CORNER
2-TRACK FRAME HEAD/SILL
 (USE WHERE 5 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")

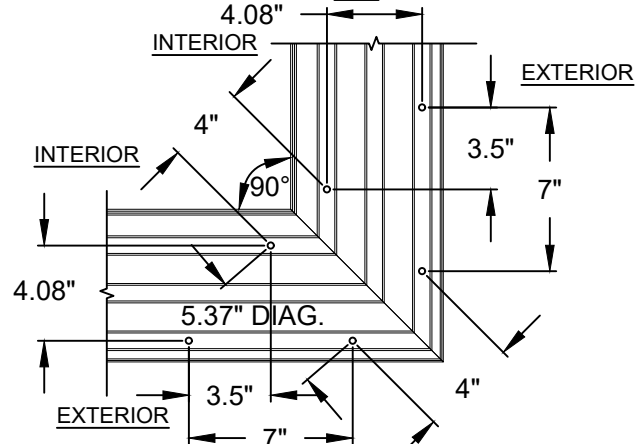
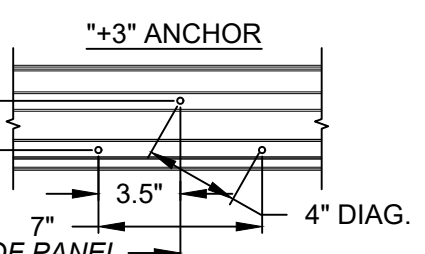
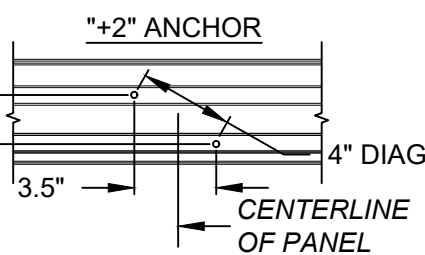
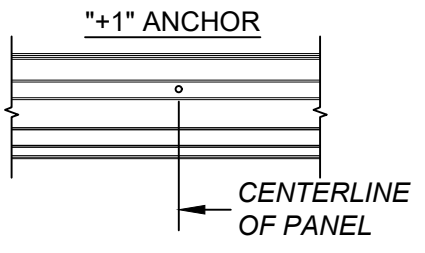


135° CORNER
2-TRACK FRAME HEAD/SILL
 (USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")

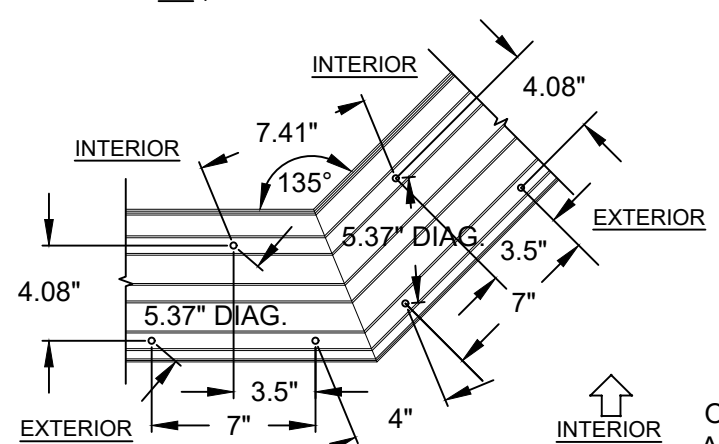


135° CORNER
2-TRACK FRAME HEAD/SILL
 (USE WHERE 5 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")

NOTES:
 1. ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 2. DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE IDENTICAL FOR EXTERIOR OR INTERIOR CORNER CONFIGURATIONS.

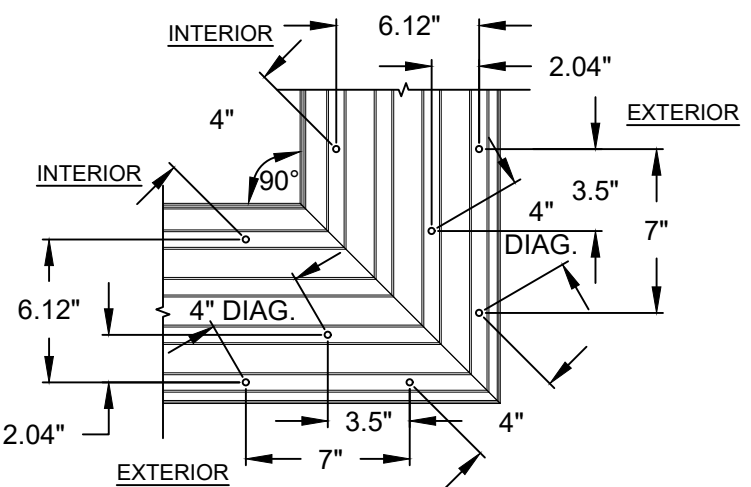


90° CORNER
3-TRACK FRAME HEAD/SILL
 ("C6" ANCHOR CLUSTER REQUIRED AT ALL 3-TRACK CORNERS)

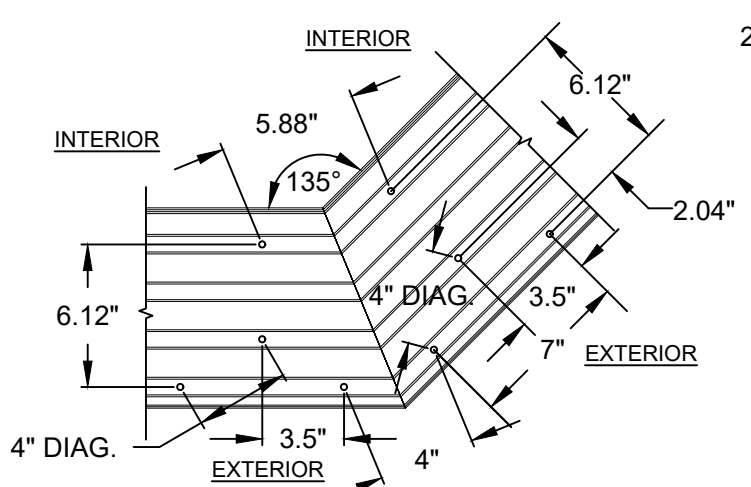


135° CORNER
3-TRACK FRAME HEAD/SILL
 ("C6" ANCHOR CLUSTER REQUIRED AT ALL 3-TRACK CORNERS)

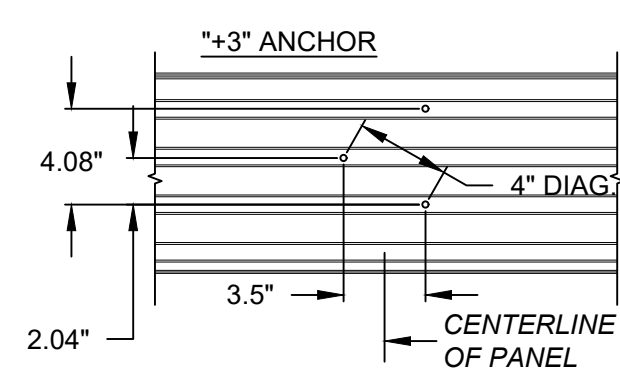
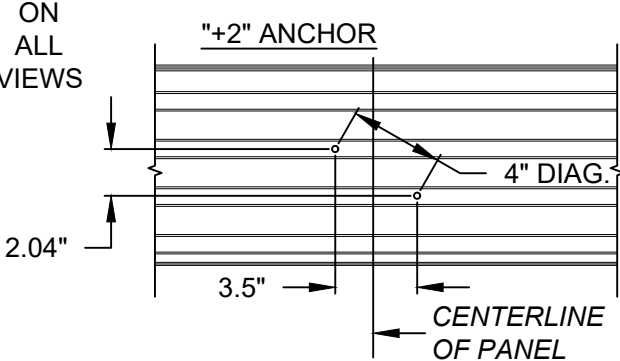
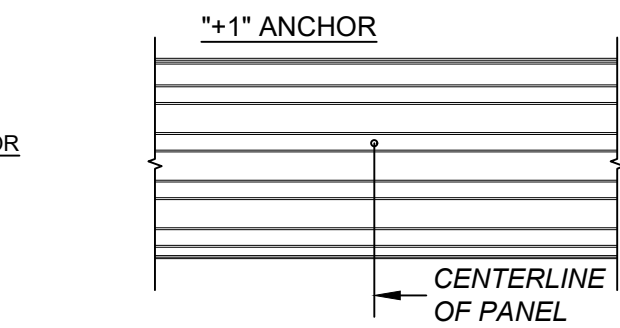
ON ALL VIEWS
 INTERIOR
 EXTERIOR



90° CORNER
4-TRACK FRAME HEAD/SILL
 ("C8" ANCHOR CLUSTER REQUIRED AT ALL 4-TRACK CORNERS)



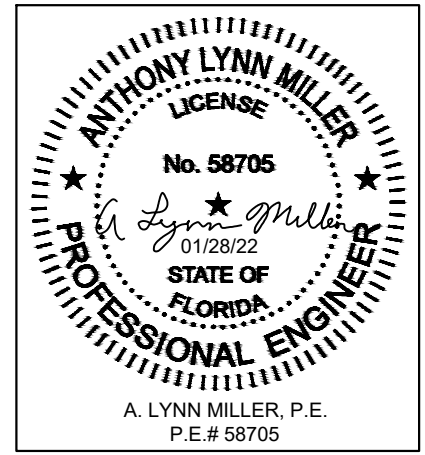
135° CORNER
4-TRACK FRAME HEAD/SILL
 ("C8" ANCHOR CLUSTER REQUIRED AT ALL 4-TRACK CORNERS)



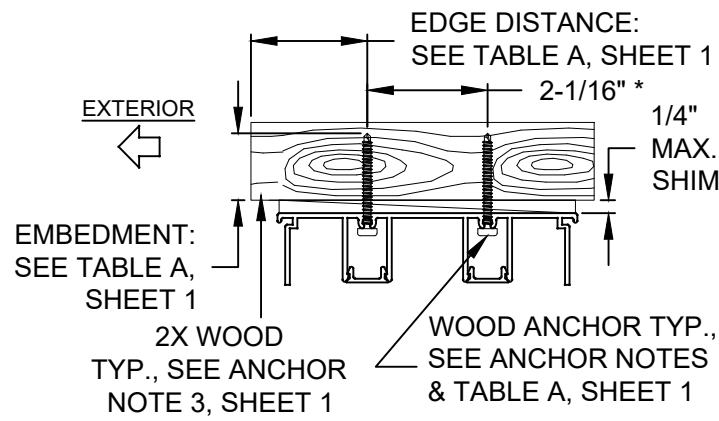
4-TRACK FRAME HEAD/SILL
INTERMEDIATE ANCHOR LAYOUT
 (3-TRACK SIMILAR)

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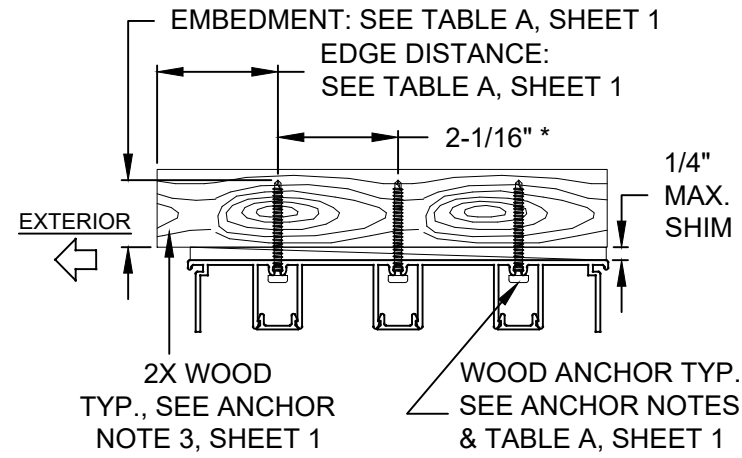
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ANCHORAGE - CLUSTERS		11 OF 22		Sheet	SGD-670		



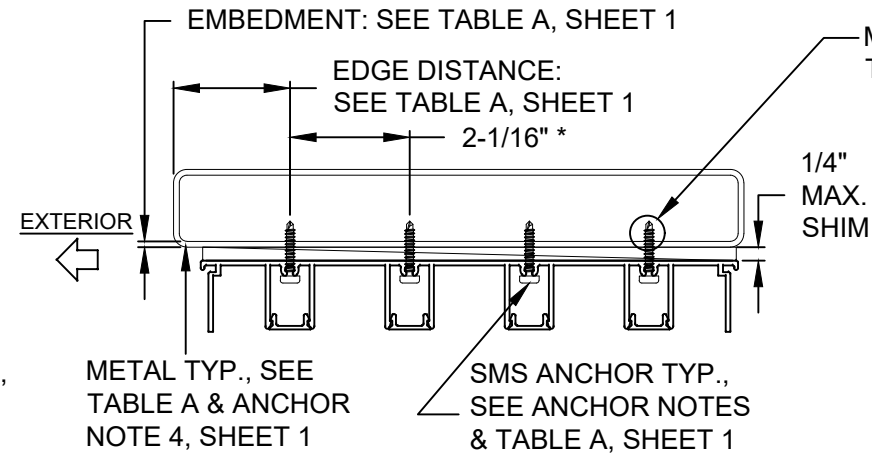
INSTALLATION DETAILS



DET Aw
2-TRACK FRAME HEAD
WOOD INSTALLATION



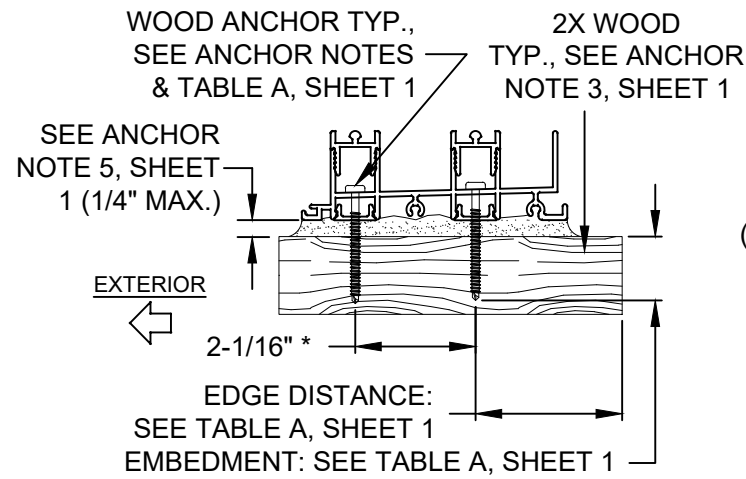
DET Bw
3-TRACK FRAME HEAD
WOOD INSTALLATION



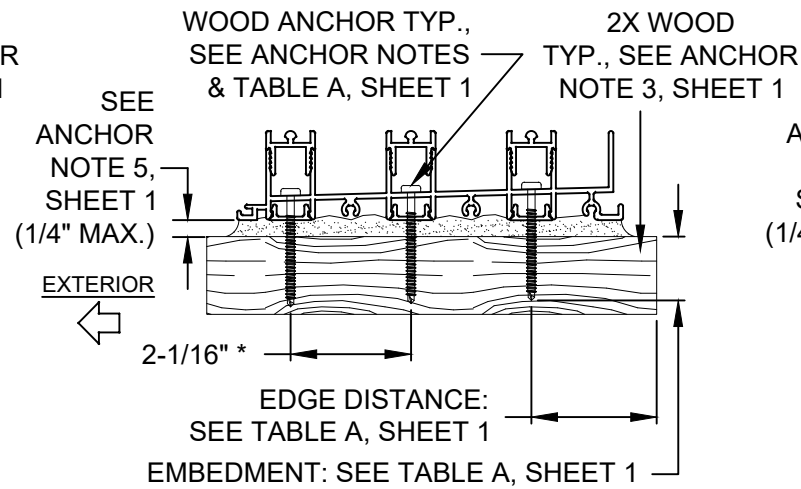
DET Cw
4-TRACK FRAME HEAD
METAL INSTALLATION

NOTES:
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
2. METAL OR WOOD SUBSTRATES MAY BE USED FOR ALL FRAME TYPES PER TABLE A, SHEET 1.

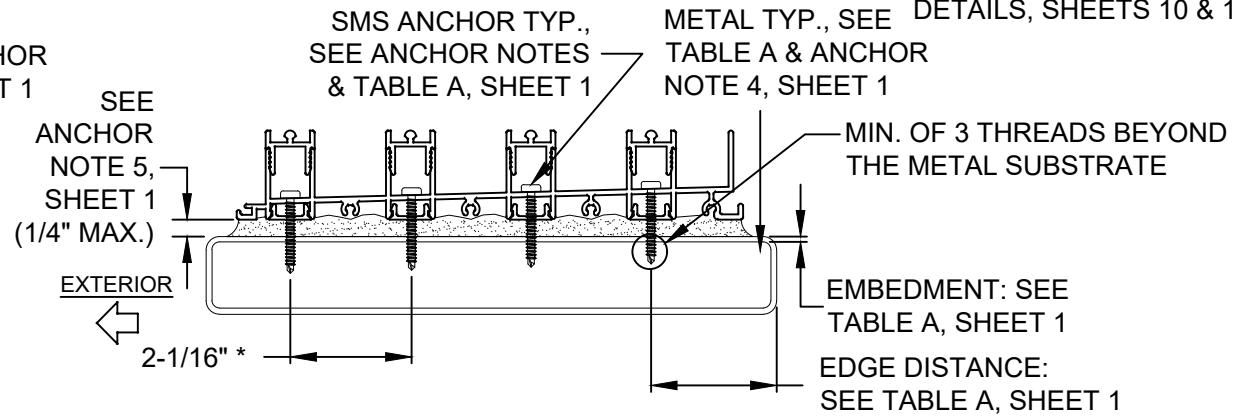
* DIAGONAL O.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS, SHEETS 10 & 11.



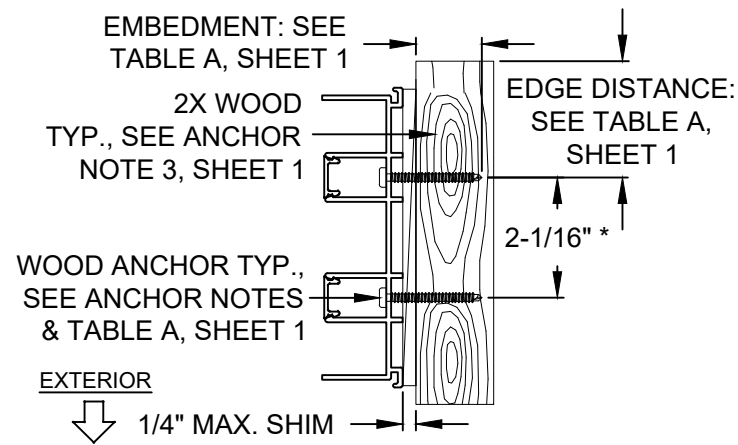
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2-TRACK FRAME SILL
WOOD INSTALLATION



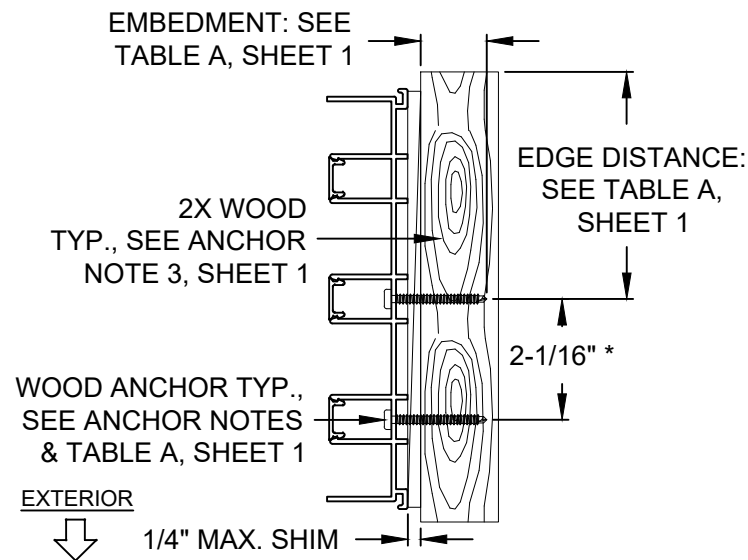
DET Ew
3-TRACK FRAME SILL
WOOD INSTALLATION



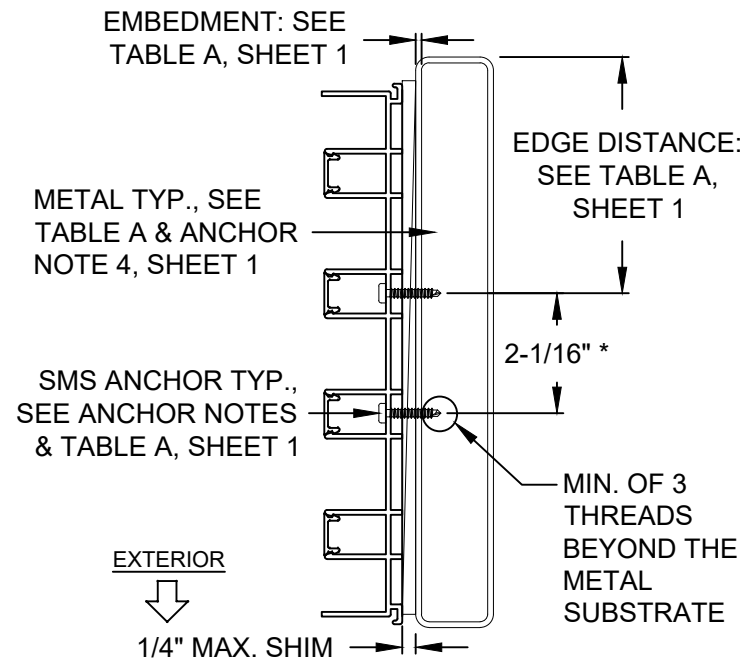
DET Fw
4-TRACK FRAME SILL
METAL INSTALLATION



DET Gw
2-TRACK FRAME JAMB
WOOD INSTALLATION



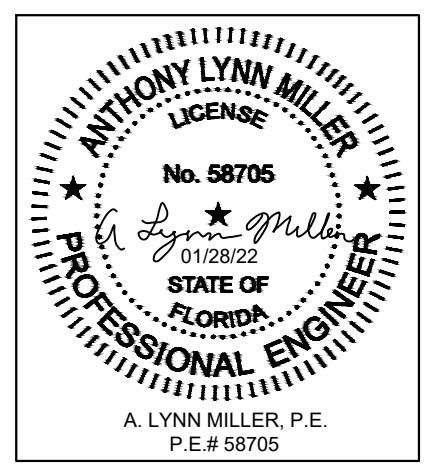
DET Hw
3-TRACK FRAME JAMB
WOOD INSTALLATION



DET Iw
4-TRACK FRAME JAMB
METAL INSTALLATION

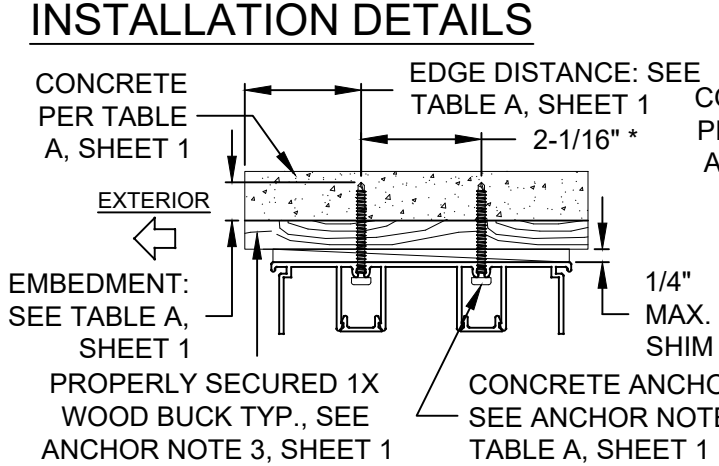
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		Sheet	12 OF 22
ANCHORAGE DETAILS		Series	SGD-670

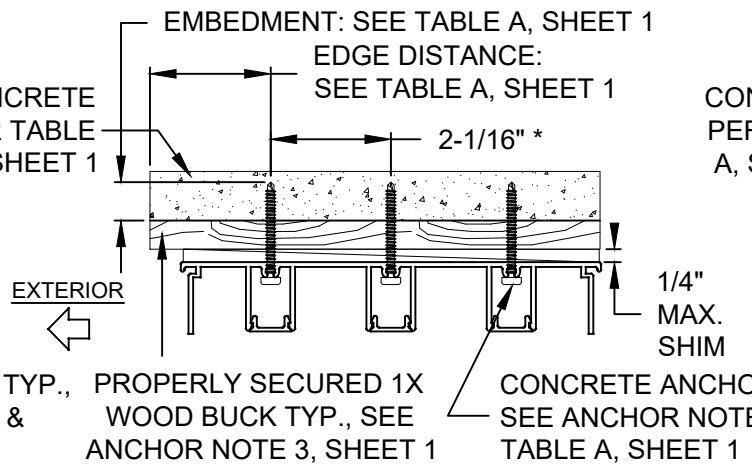


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P.E.# 58705

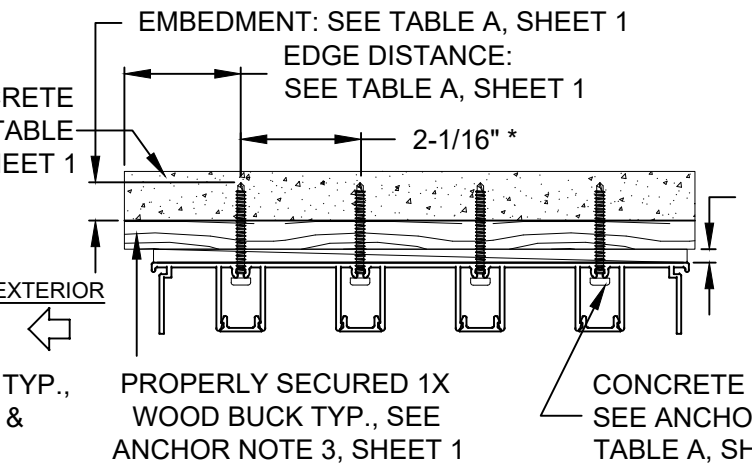
INSTALLATION DETAILS



DET Ac 2-TRACK FRAME HEAD CONCRETE INSTALLATION

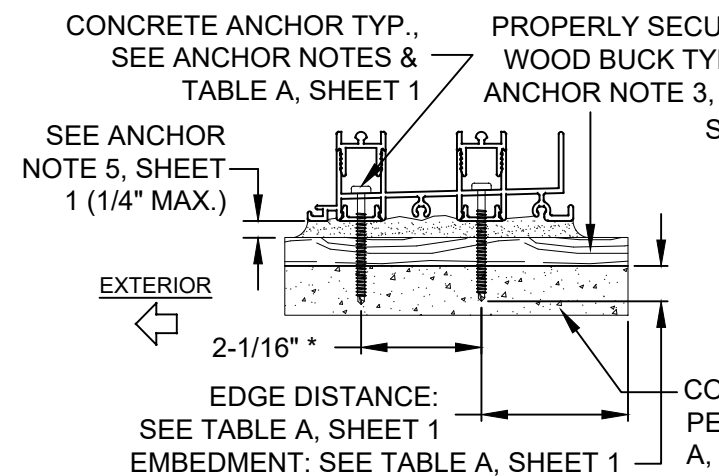


DET Bc 3-TRACK FRAME HEAD CONCRETE INSTALLATION

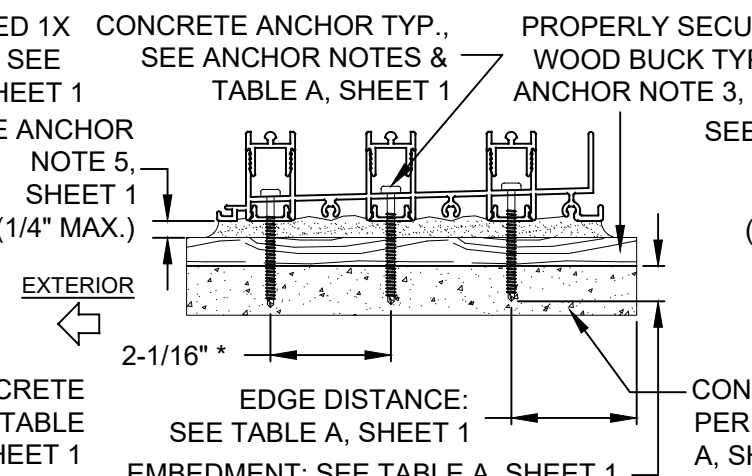


DET Cc 4-TRACK FRAME HEAD CONCRETE INSTALLATION

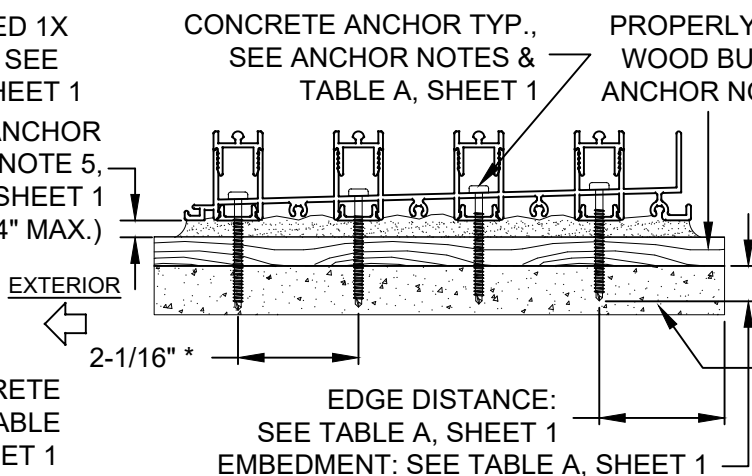
NOTES:
 1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
 * DIAGONAL O.C. IS MIN 4" (HEAD & SILL) OR 6" (JAMB) SEE DETAILS, SHEETS 10 & 11.



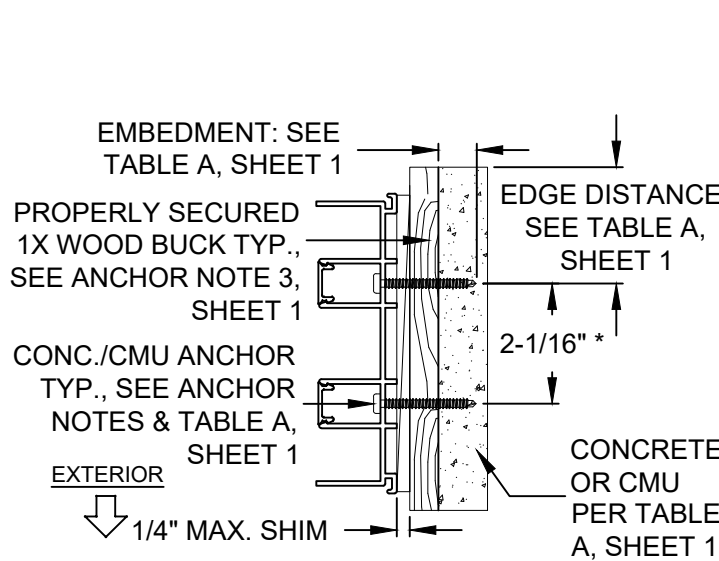
DET Dc 2-TRACK FRAME SILL CONCRETE INSTALLATION



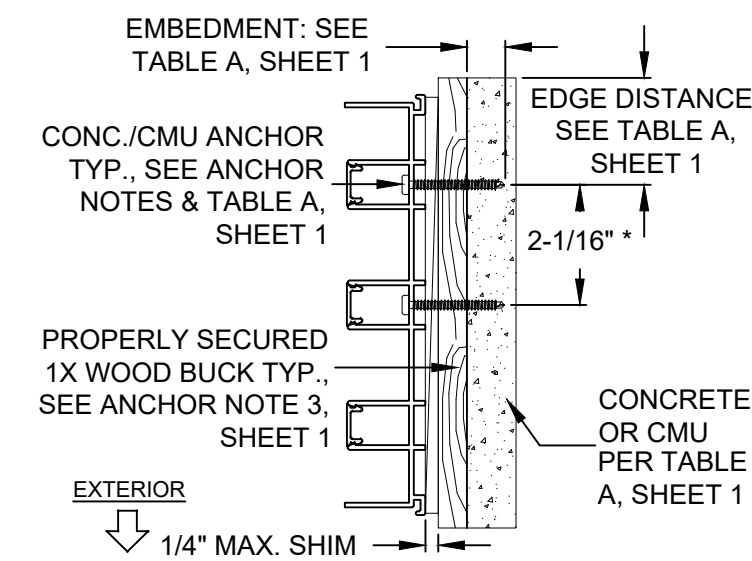
DET Ec 3-TRACK FRAME SILL CONCRETE INSTALLATION



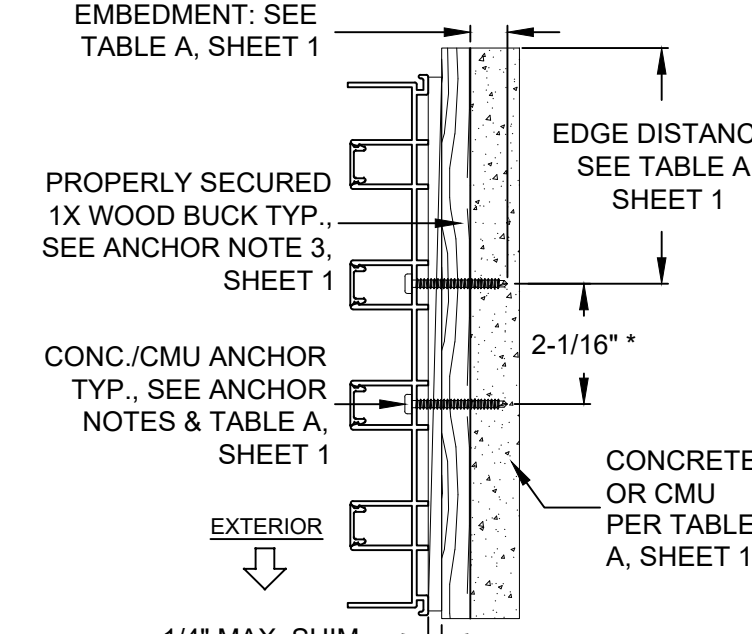
DET Fc 4-TRACK FRAME SILL CONCRETE INSTALLATION



DET Gc 2-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION



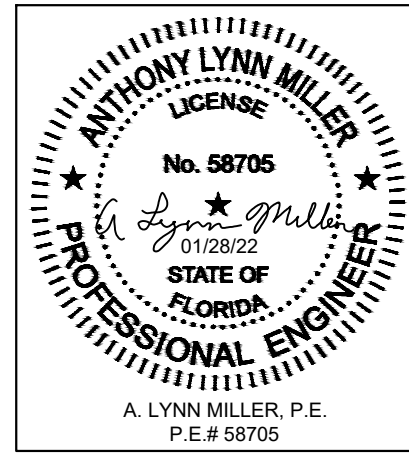
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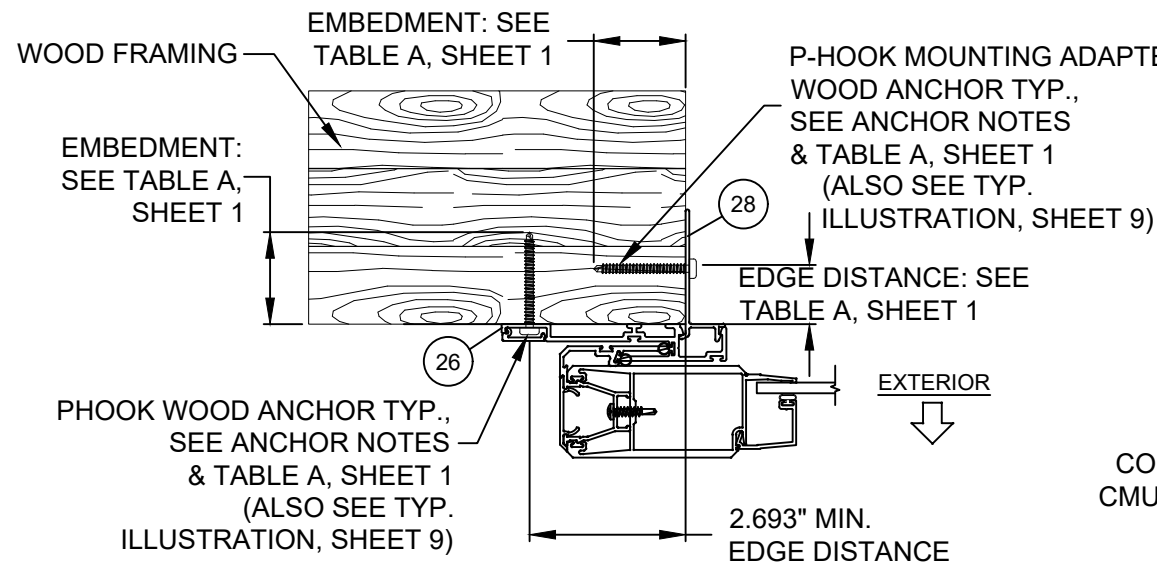
DET Ic 4-TRACK FRAME JAMB CONCRETE/CMU INSTALLATION

Revision:

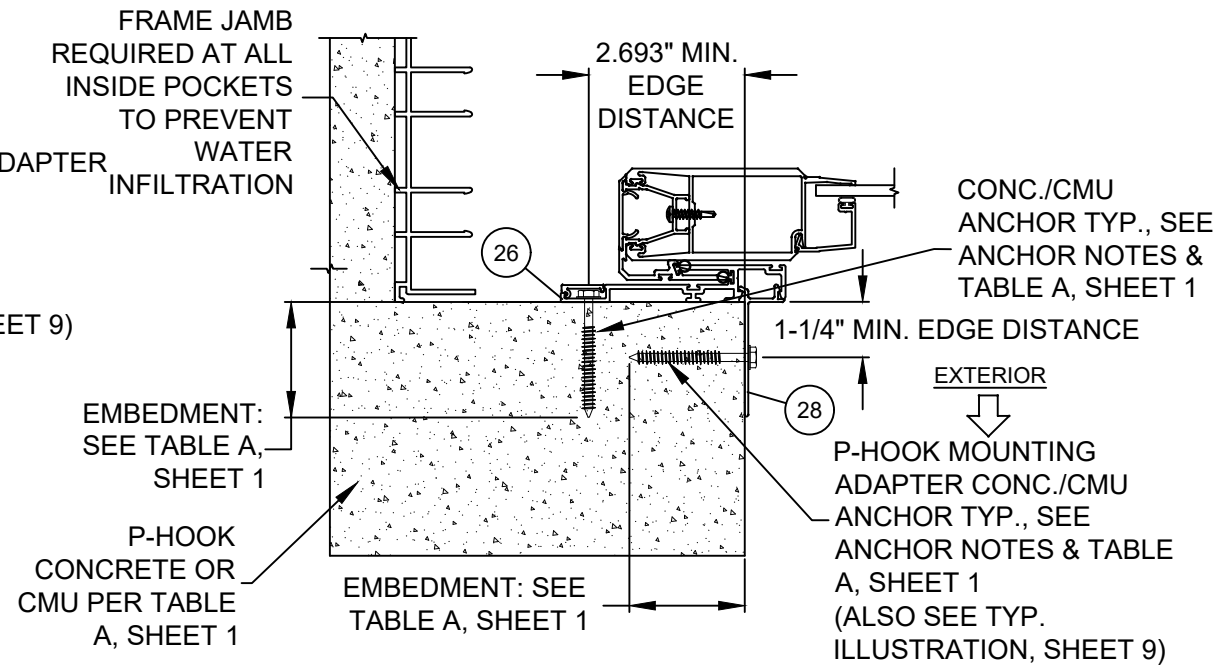
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ALUM. SLIDING GLASS DOOR INSTALL. (NI)		ERIN KOSS		By	SGD670-FPA
ANCHORAGE DETAILS		13 OF 22		DWG No.	
SGD-670		Sheet		Series	



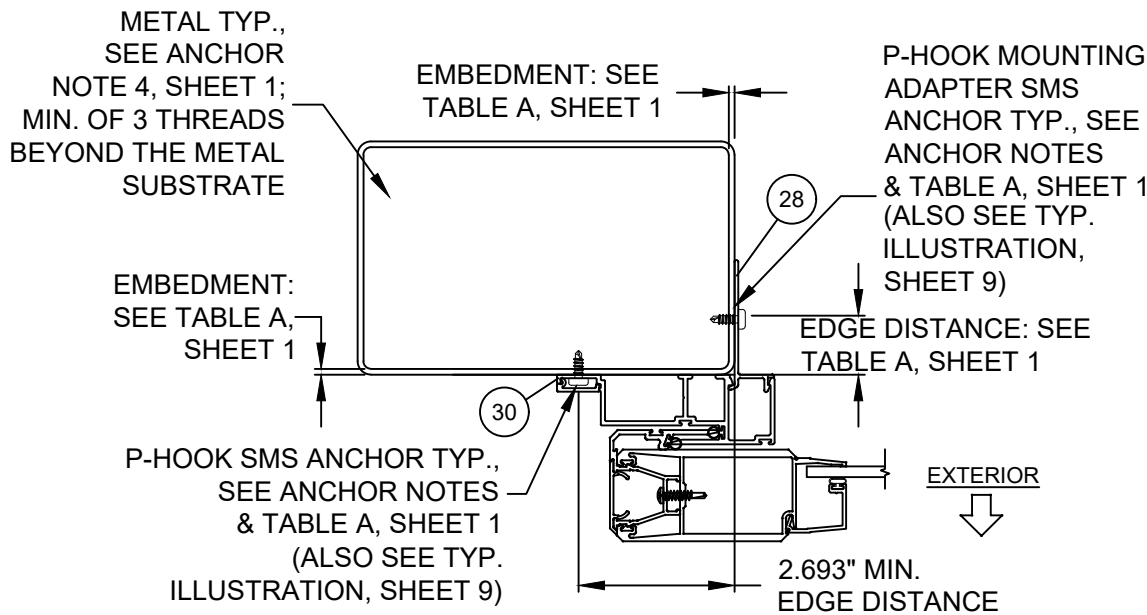
INSTALLATION DETAILS



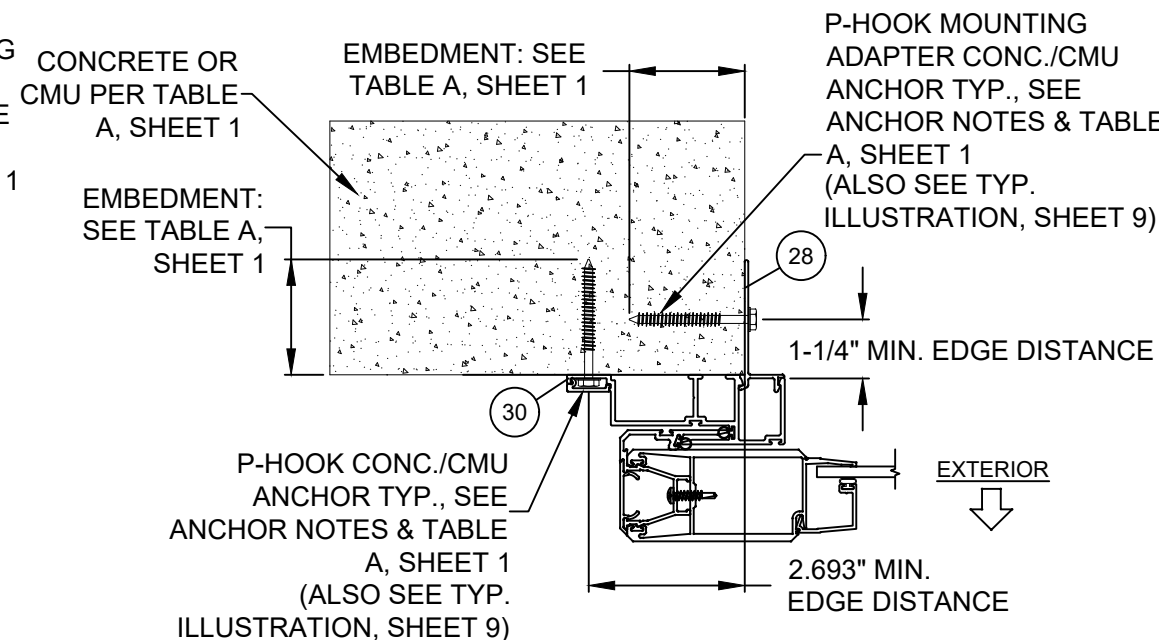
DET Jw P-HOOK FOR USE WITH FLAT SILL RISERS
PARTS #18, #20, #22 OR #24,
WOOD INSTALLATION
(SEE TABLES 1A, 2A & 3A
FOR WATER RATINGS) EXTERIOR MOUNT SHOWN,
MAY ALSO BE INSTALLED IN
INTERIOR CONDITION



DET Jc P-HOOK FOR USE WITH FLAT SILL RISERS
PARTS #18, #20, #22 OR #24,
CONCRETE/CMU INSTALLATION
(SEE TABLES 1A, 2A & 3A
FOR WATER RATINGS) INTERIOR MOUNT SHOWN,
MAY ALSO BE INSTALLED IN
EXTERIOR CONDITION



DET Kw P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25,
METAL INSTALLATION
(SEE TABLES 1A, 2A & 3A
FOR WATER RATINGS) EXTERIOR
MOUNT
ONLY

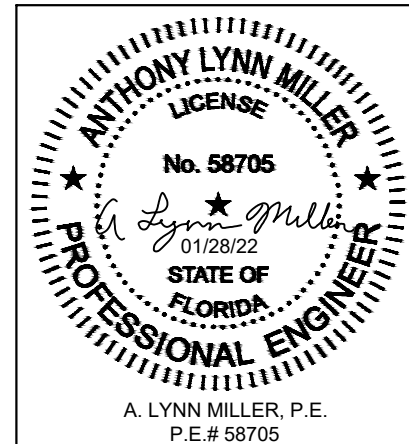


DET Kc P-HOOK FOR USE WITH BOX SILL RISERS
PARTS #19, #21, #23 OR #25,
CONCRETE INSTALLATION
(SEE TABLES 1A, 2A & 3A
FOR WATER RATINGS) EXTERIOR
MOUNT
ONLY

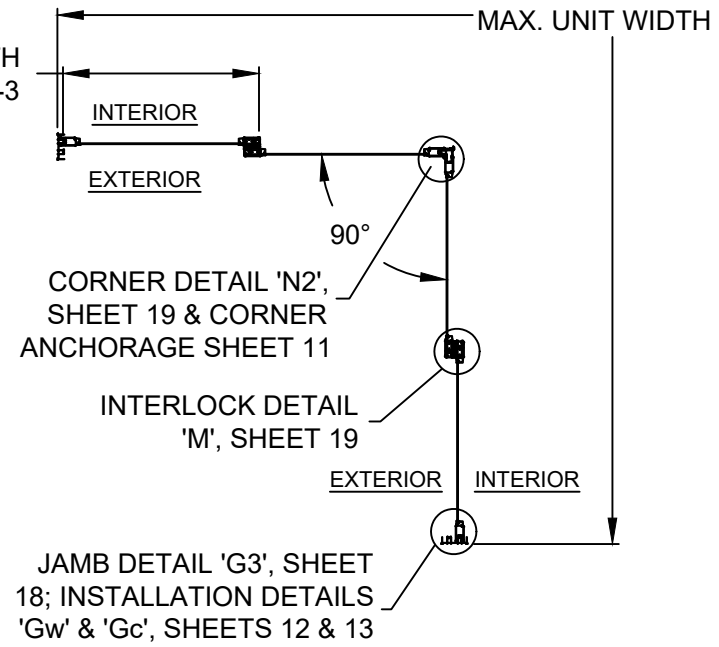
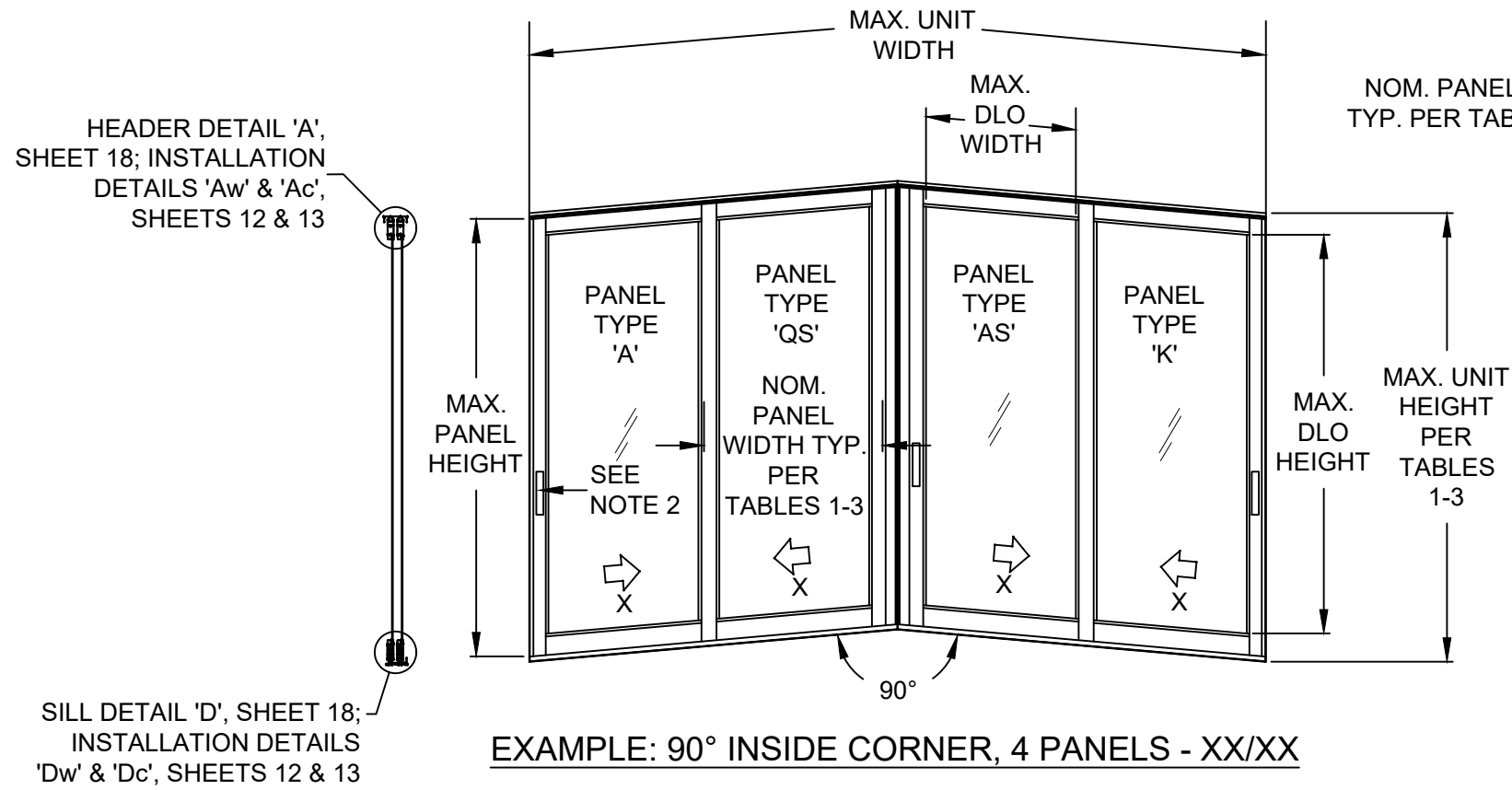
- NOTES:**
1. ALL DIMENSIONS SHOWN ARE BASED ON MIN. ALLOWED.
 2. FIGURES ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. SEE TABLE A, SHEET 1 FOR ALL APPROVED SUBSTRATES.
 3. SEE TABES 1-3, SHEETS 6-8 FOR REQUIRED P-HOOK AND P-HOOK MOUNTING ADAPTER ANCHOR QUANTITIES. ALSO SEE EXAMPLE ON SHEET 9.

Revision:

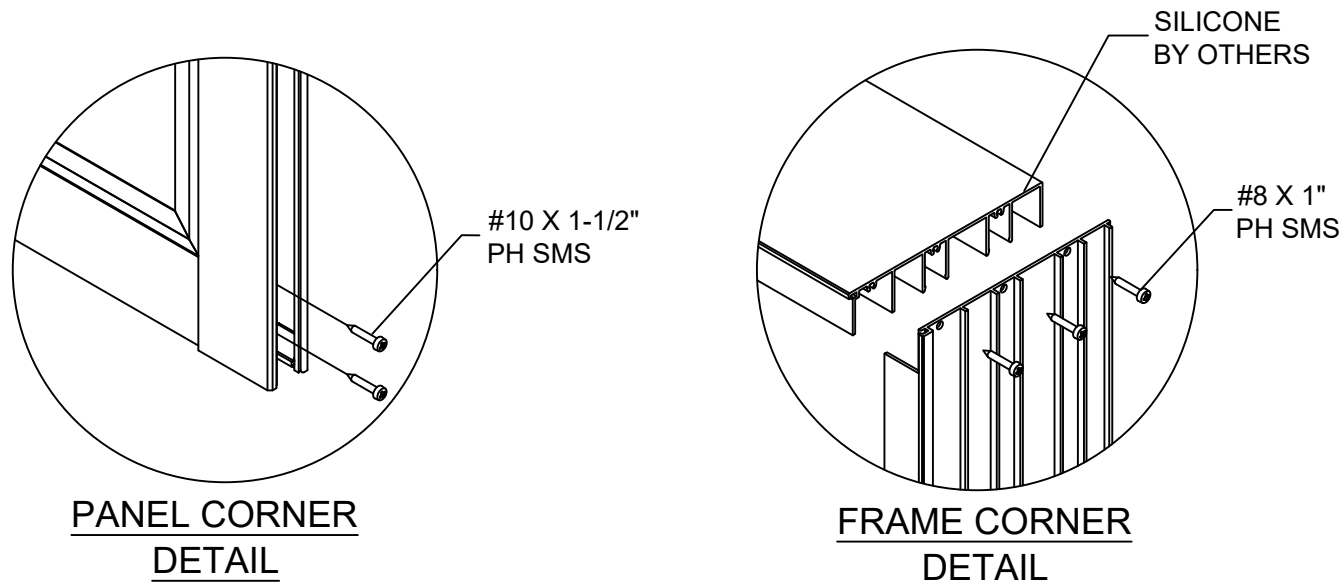
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		By	ERIN KOSS	DWG No.	SGD670-FPA
ALUM. SLIDING GLASS DOOR INSTALL. (NI)	REGISTRATION #29296	14 OF 22		Sheet	SGD-670
		ANCHORAGE DETAILS		Series Desc. Title	



CONFIG. EXAMPLES



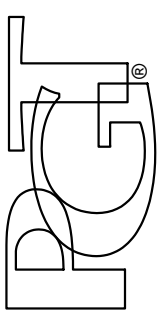
DLO WIDTH = NOM. PANEL WIDTH - 7"
 DLO HEIGHT = DOOR UNIT HEIGHT - 10.125"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 1.866"

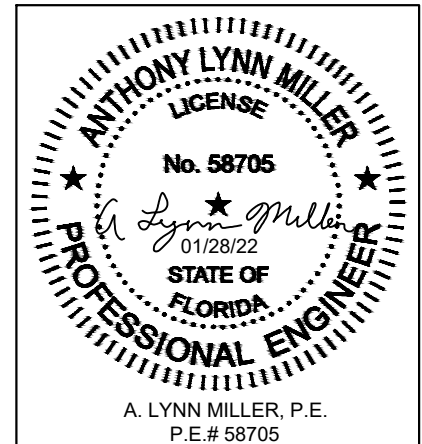


NOTES:

- 1) SEE SHEET 17 FOR INDIVIDUAL PANEL CONFIGURATIONS AS APPLICABLE. SEE DP/ANCHOR TABLES, SHEETS 6-8 FOR MAX. PANEL HEIGHT AND WIDTH. SEE SHEETS 18 & 19 FOR SECTION DETAILS AND SHEETS 12-14 FOR INSTALLATION DETAILS.
- 2) (1) LOCK (ITEMS 75 & 107-110) AT EACH LOCKSTILE, LOCKING INTO KEEPER (ITEM 103) AT FRAME JAMB OR ASTRAGAL.
- 3) PLEASE SEE APPLICABLE ASTRAGAL & INTERLOCK COMBINATIONS PER DP/ANCHOR TABLES.

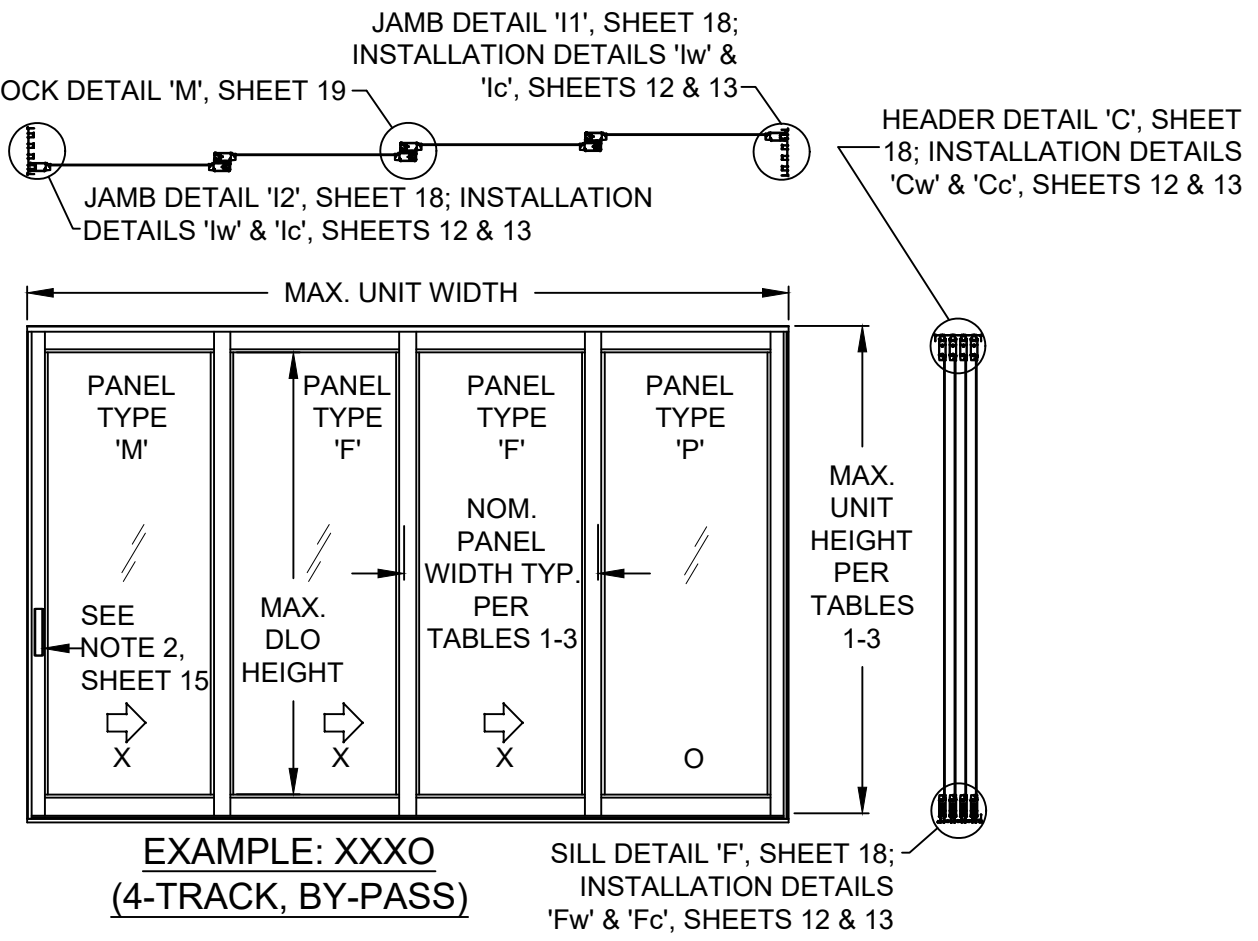
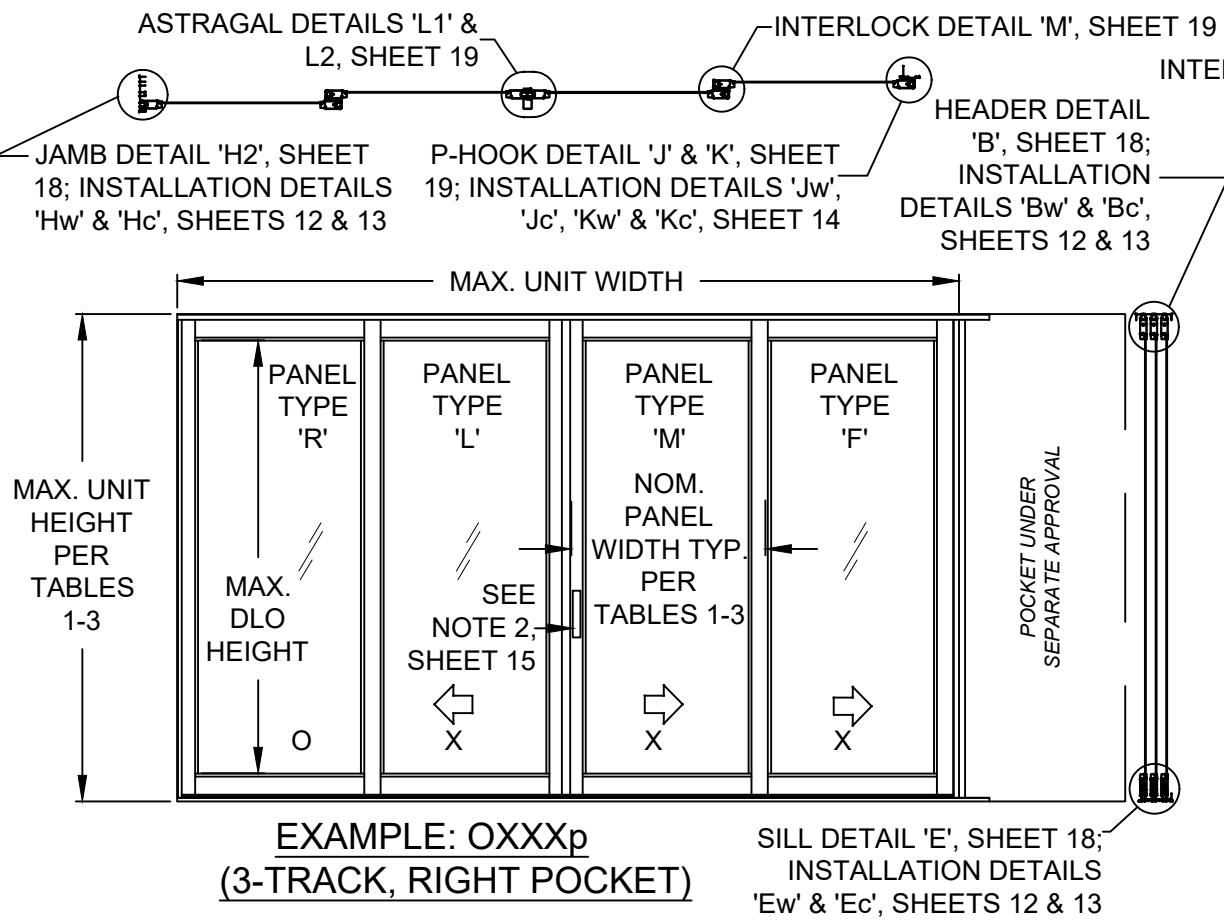
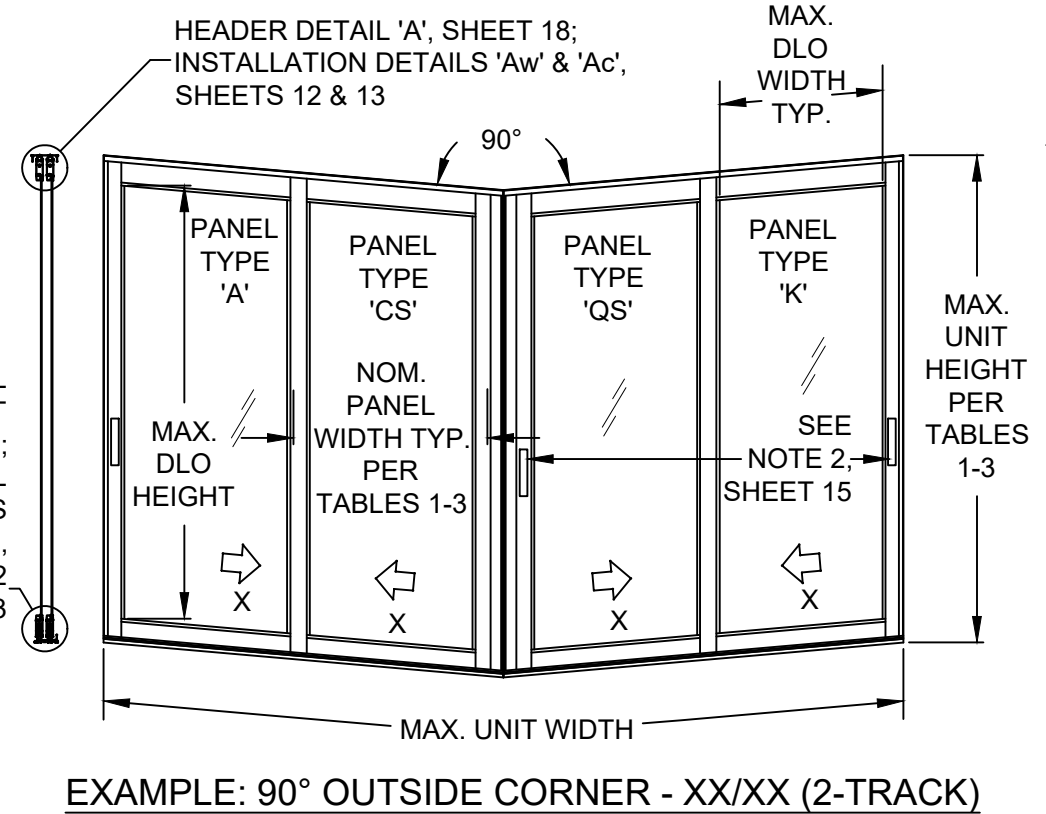
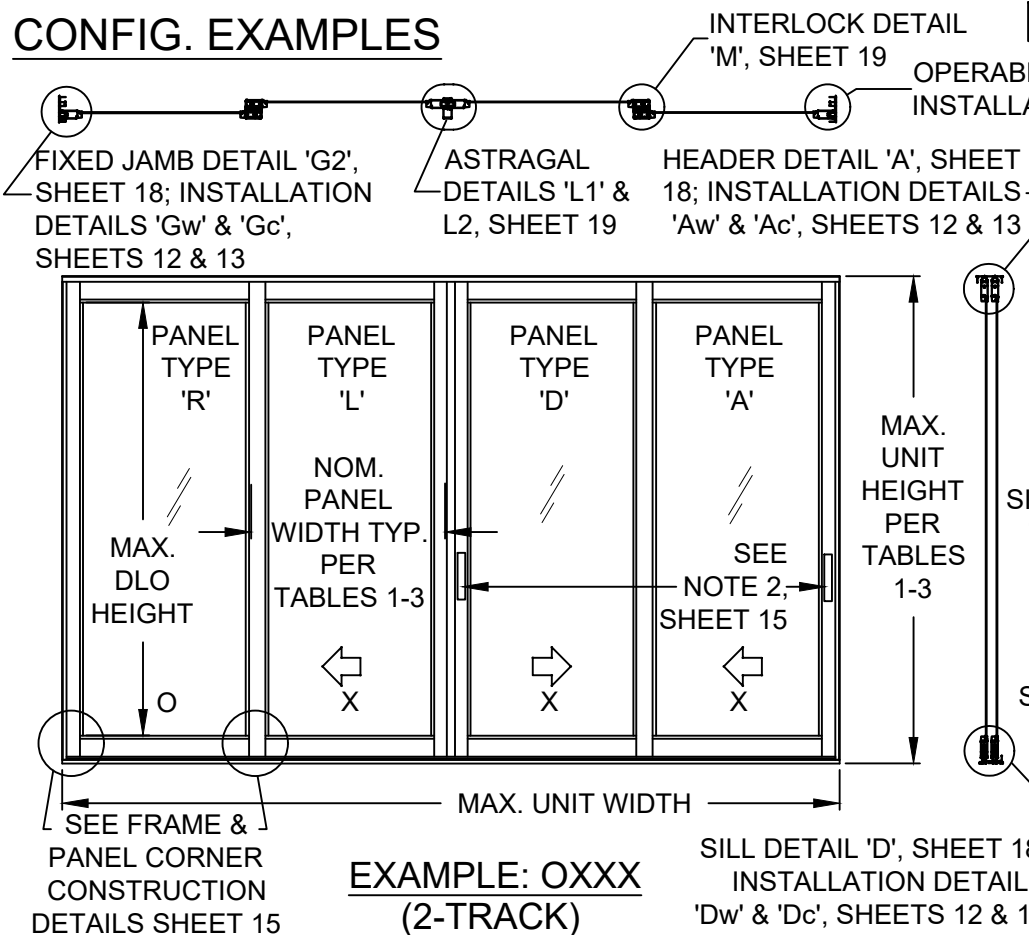
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		By	ERIN KOSS	DWG No.	SGD670-FPA
 REGISTRATION #29296 ALUM. SLIDING GLASS DOOR INSTALL. (NI) EXAMPLE ELEVATION	15 OF 22 Sheet	01/28/22 Date		- Rev.	
		15 OF 22 Sheet		- Rev.	
SGD-670	Series Desc. Title				



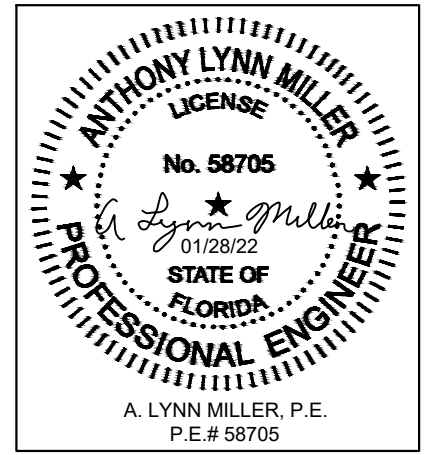
CONFIG. EXAMPLES

FOR ALL DETAILS ON THIS SHEET, SEE NOTES ON SHEET 15



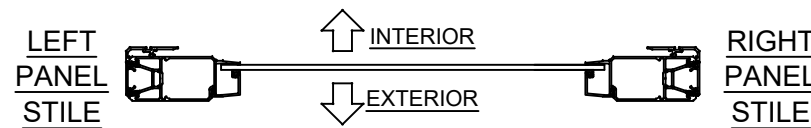
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		By	ERIN KOSS
ALUM. SLIDING GLASS DOOR INSTALL. (NI)	REGISTRATION #29296	DWG No.	SGD670-FPA
		Sheet	16 OF 22
EXAMPLE ELEVATIONS		Series Desc.	SGD-670



PANEL TYPES		PANEL'S RIGHT STILE TYPE															
		SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX IN	ASTRAGAL BOX OUT W/ HANDLE	ASTRAGAL BOX IN W/ HANDLE	INT CORNER 90 LOCKSTILE W/ HANDLE #120	EXT CORNER 90 LOCKSTILE W/ HANDLE #119	EXT CORNER 90 RECEIVER W/ HANDLE #61 #118	INT CORNER 90 RECEIVER W/ HANDLE #61 #118	EXT CORNER 90 RECEIVER #118 #61	EXT CORNER 135 RECEIVER W/ HANDLE #61 #31	INT CORNER 135 RECEIVER W/ HANDLE #61 #31	
SINGLE INTERLOCK OUT			F	PP	K			L (BOX OUT)		TR	TQ	TC	TA		TV	TW	
SINGLE INTERLOCK IN		B	E	P	A			C (BOX OUT)	C (BOX IN)	IC	SQ	SC	SA		SV	SW	
FIXED STILE		RR	R			S (BOX OUT)	S (BOX IN)							FD	FC	FV	FW
LOCKSTILE W/ HANDLE		D	M			J (BOX OUT)	J (BOX IN)										
ASTRAGAL BOX OUT W/ HANDLE		LR (BOX OUT)															
ASTRAGAL BOX IN W/ HANDLE			N (BOX IN)														
ASTRAGAL BOX OUT				T (BOX OUT)	U (BOX OUT)												
ASTRAGAL BOX IN				T (BOX IN)	U (BOX IN)												
INT CORNER 90 LOCKSTILE W/ HANDLE #120		RT	CI														
EXT CORNER 90 LOCKSTILE W/ HANDLE #119		QT	QS														
EXT CORNER 90 RECEIVER W/ HANDLE #61 #118		CT	CS														
INT CORNER 90 RECEIVER W/ HANDLE #61 #118		AT	AS	DF													
EXT CORNER 90 RECEIVER #61 #118				CF													
EXT CORNER 135 RECEIVER W/ HANDLE #61 #31		VT	VS	VF													
INT CORNER 135 RECEIVER W/ HANDLE #61 #31		WT	WS	WF													

PANEL'S LEFT STILE TYPE

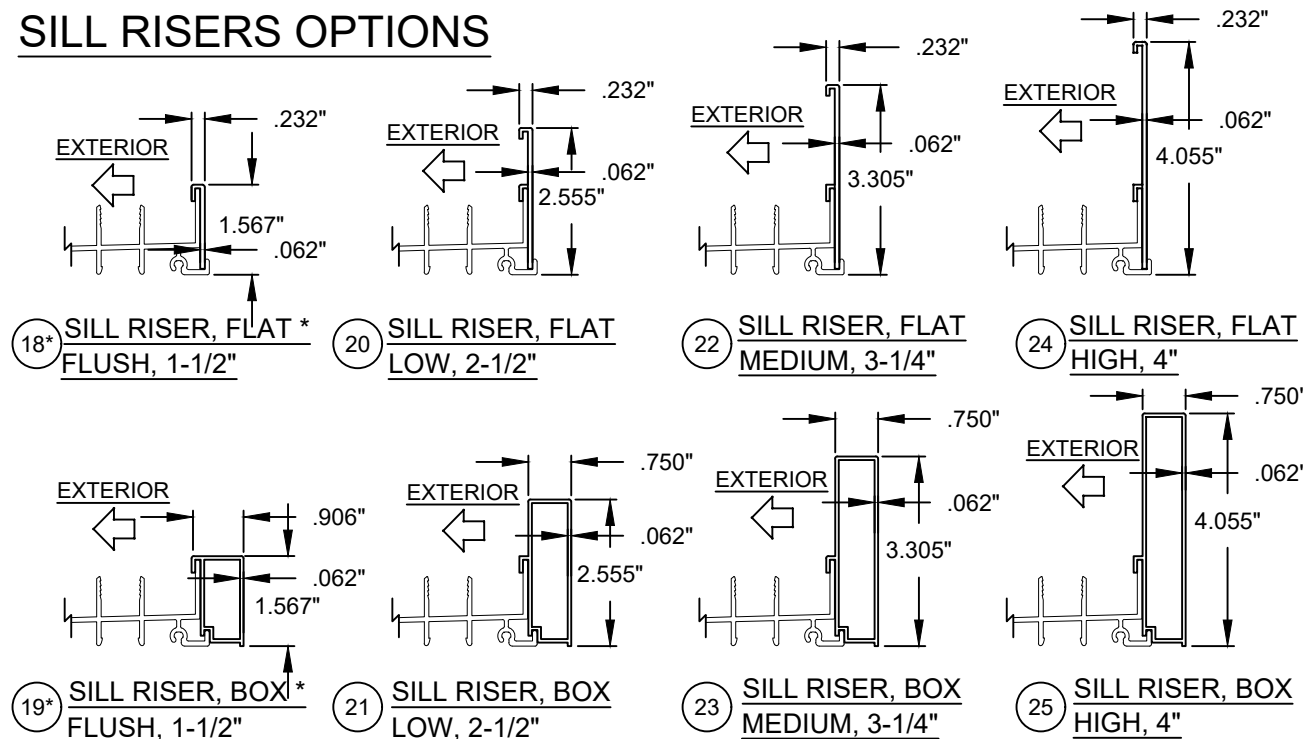


PANEL "E" SHOWN. SEE TABLE FOR OTHER PANEL TYPES AND APPLICABLE STILE/ASTRAGAL REQUIREMENTS.

PANEL NOTES:

1. SEE DP TABLES 1-3, SHEETS 6-8 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN OR CROSSED OFF ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. 90° ASTRAGALS TO USE HEAVY-DUTY STILES (#61), CORNER RECEIVER (#118) AND EITHER EXTERIOR (#119) OR INTERIOR (#120) CORNER ASTRAGALS.
4. 135° ASTRAGALS TO USE HEAVY-DUTY STILES (#61) AND CORNER ADDON (#31).

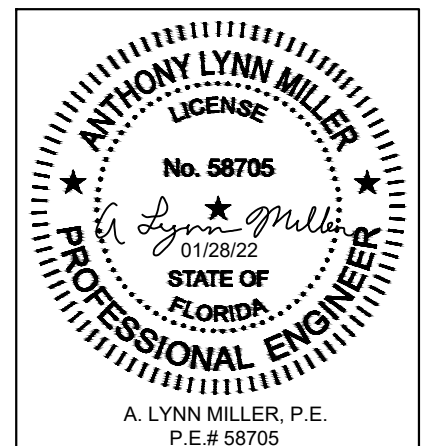
SILL RISERS OPTIONS



* NOT VALID FOR WATER INFILTRATION RESISTANCE REQUIREMENTS, SEE SHEETS 6-8

Revision:

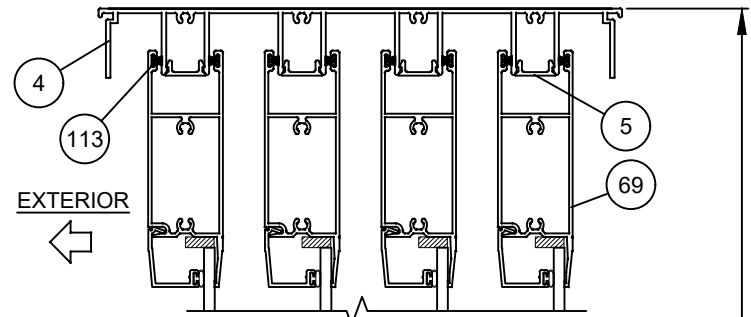
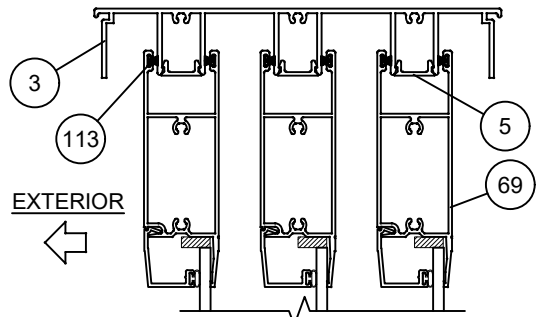
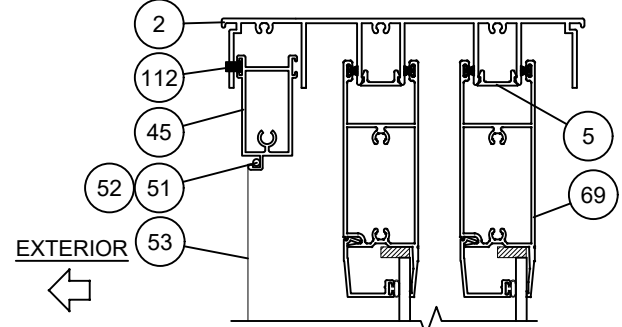
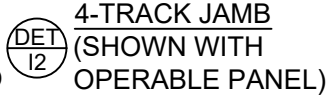
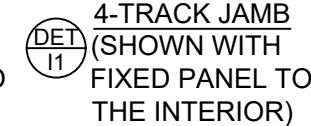
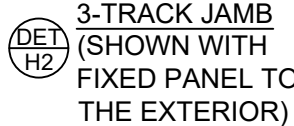
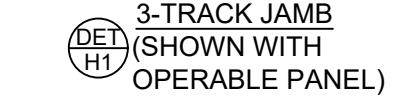
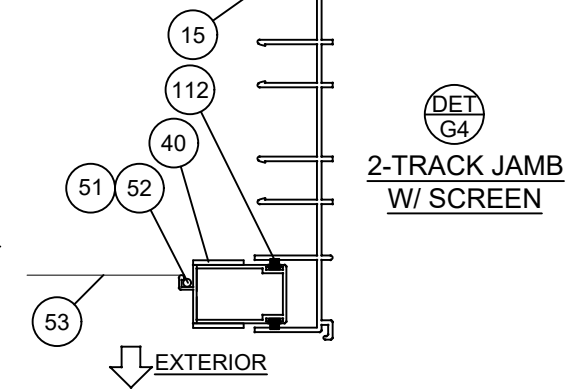
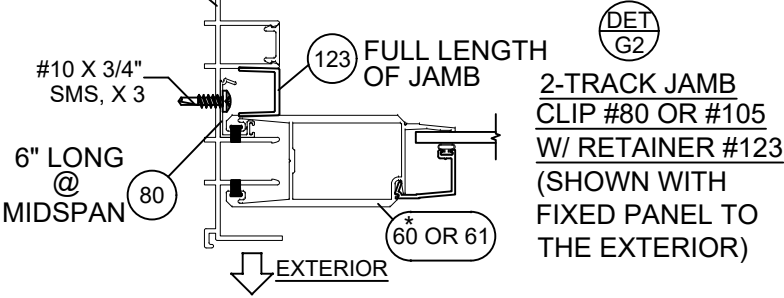
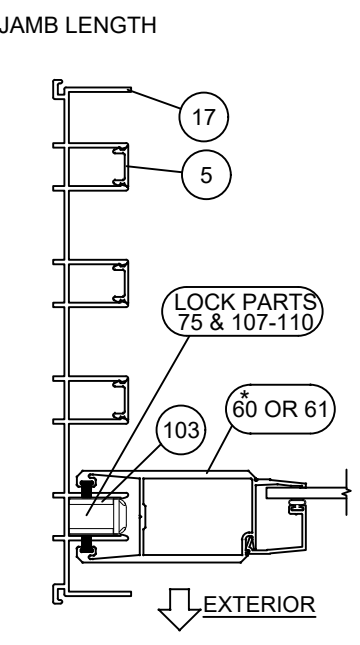
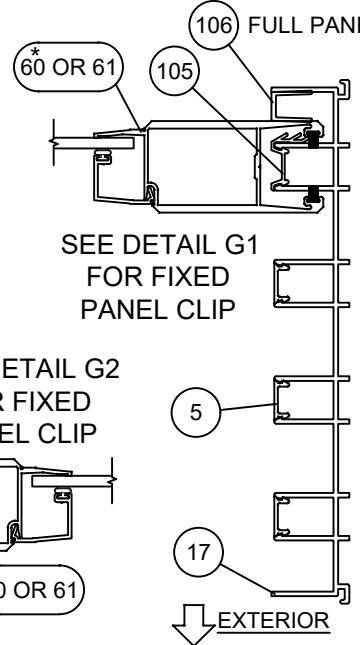
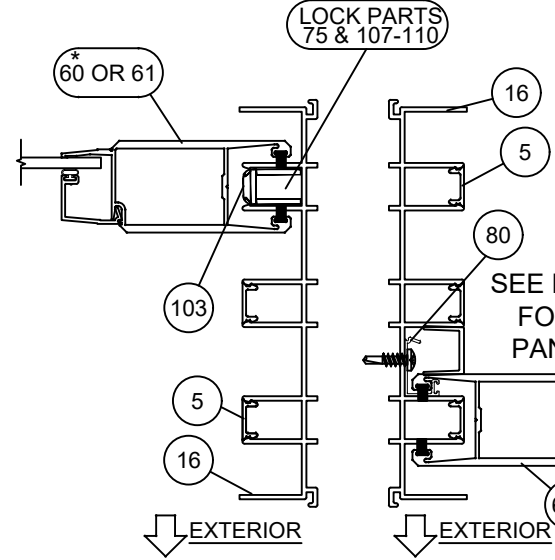
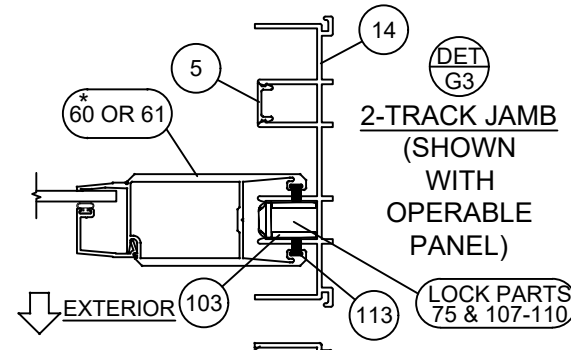
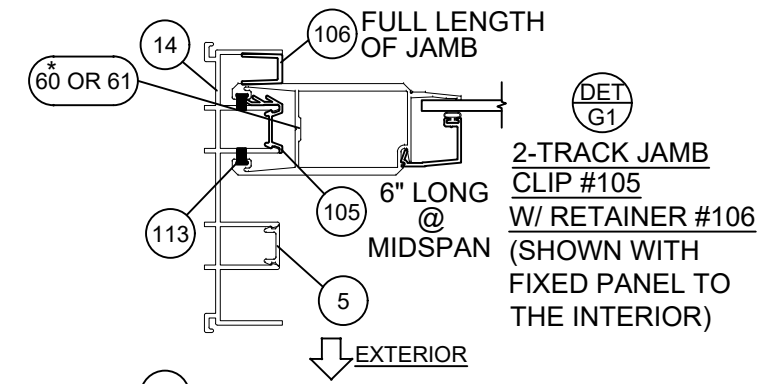
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REGISTRATION #29296		PANEL TYPES		DWG No.	SGD670-FPA
ALUM. SLIDING GLASS DOOR INSTALL. (NI)		ERIN KOSS		Sheet	17 OF 22
PANEL TYPES		SGD-670		Series	SGD-670



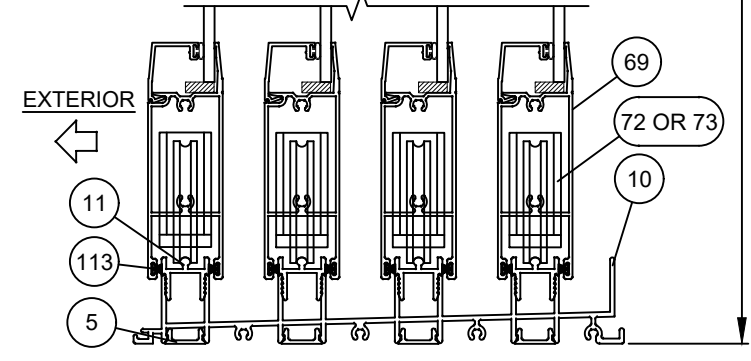
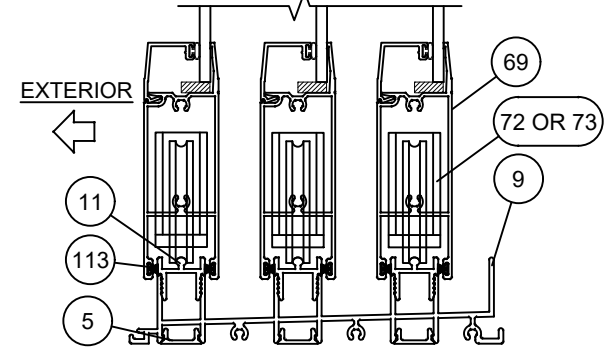
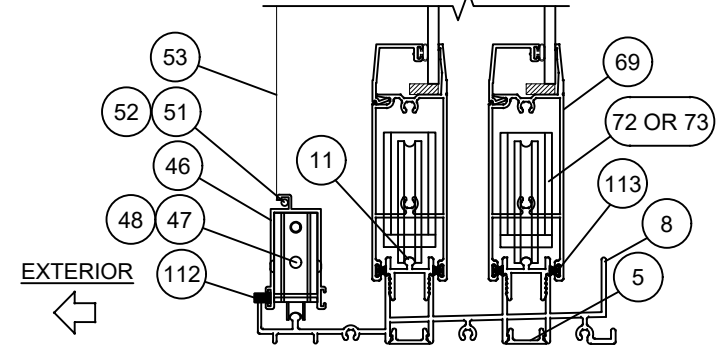
A. LYNN MILLER, P.E.
P.E.# 58705

ASSEMBLY DETAILS

(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)

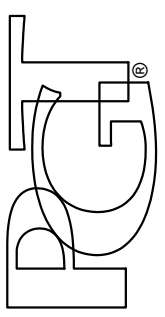


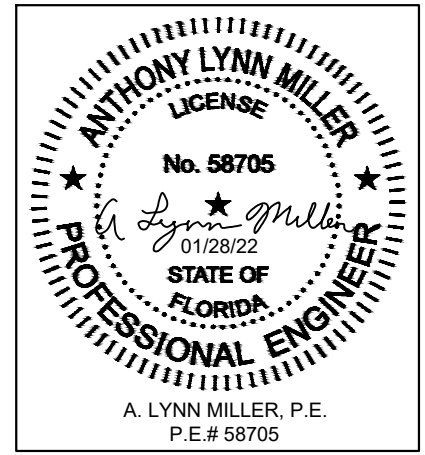
MAX. UNIT HEIGHT PER TABLES 1-3



* ITEM 61 SHOWN, ITEM 60 ALSO APPLICABLE, SEE TABLES 1-3, SHEETS 6-8 FOR DP (PSF) ASSOCIATED WITH STILE.

Revision:

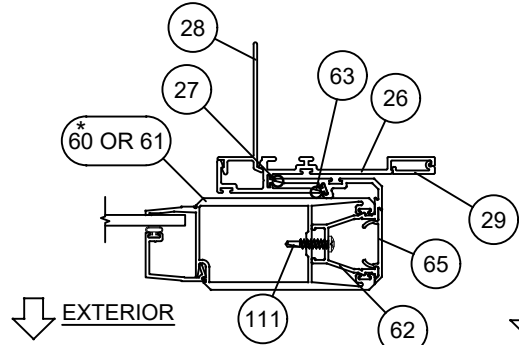
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		By	ERIN KOSS
	REGISTRATION #29296	DWG No.	SGD670-FPA
		Sheet	18 OF 22
ALUM. SLIDING GLASS DOOR INSTALL. (NI)		Series	SGD-670
VERTICAL SECTION DETAILS		Desc.	VERTICAL SECTION DETAILS



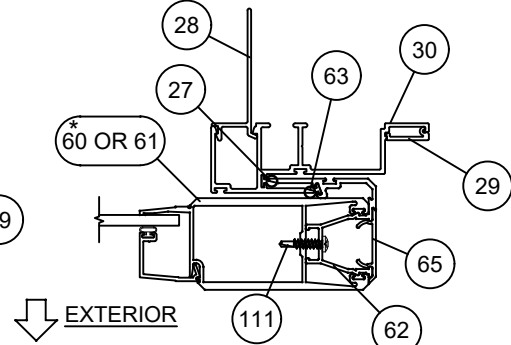
A. LYNN MILLER, P.E.
P.E.# 58705

ASSEMBLY DETAILS

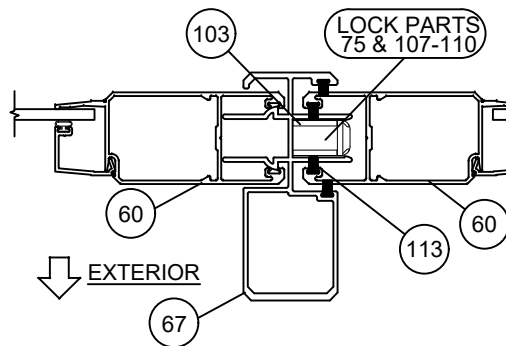
(SEE SHEETS 12-14 FOR FOR INSTALLATION DETAILS)



DET J P-HOOK FOR FLAT SILLS
(EXT. OR INT. MOUNT)

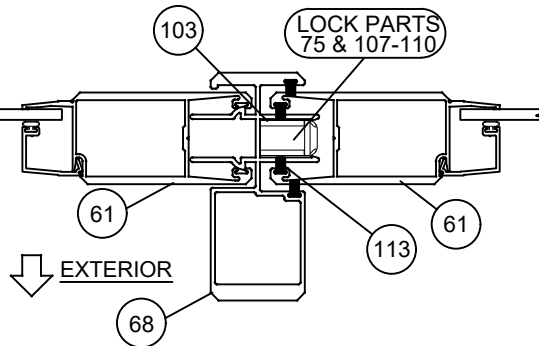


DET K P-HOOK FOR BOX SILLS
EXT. MOUNT ONLY



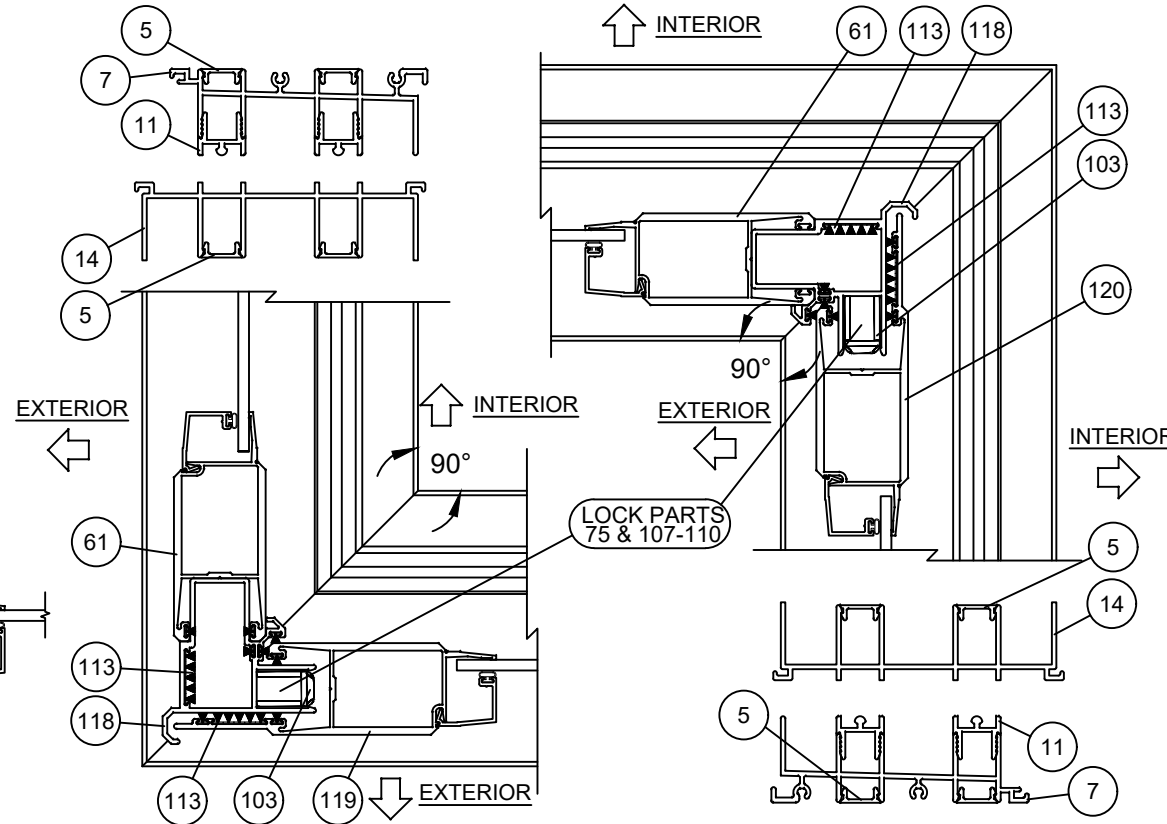
DET L1 STANDARD ASTRAGAL #67
WITH STANDARD STILES #60

EXTERIOR BOX ASTRAGAL SHOWN
(BOX-OUT) MAY ALSO BE INSTALLED
TOWARDS INTERIOR (BOX-IN)



DET L2 HEAVY-DUTY ASTRAGAL #68
WITH HEAVY-DUTY STILES #61

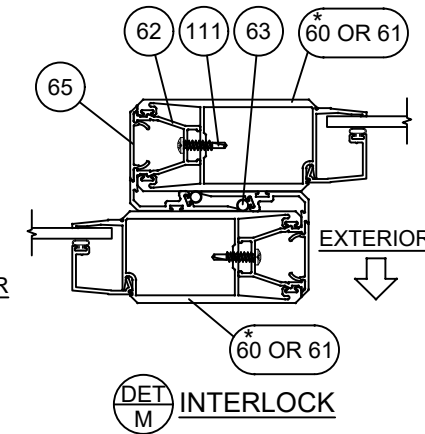
EXTERIOR BOX ASTRAGAL SHOWN
(BOX-OUT) MAY ALSO BE INSTALLED
TOWARDS INTERIOR (BOX-IN)



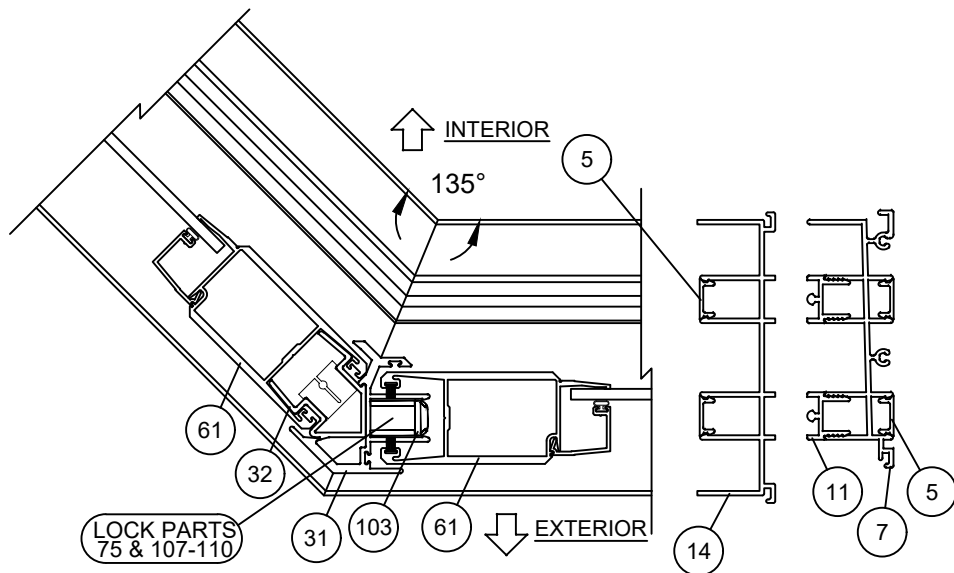
DET N1 90° OUTSIDE CORNER
2-TRACK SHOWN

DET N2 90° INSIDE CORNER
2-TRACK SHOWN

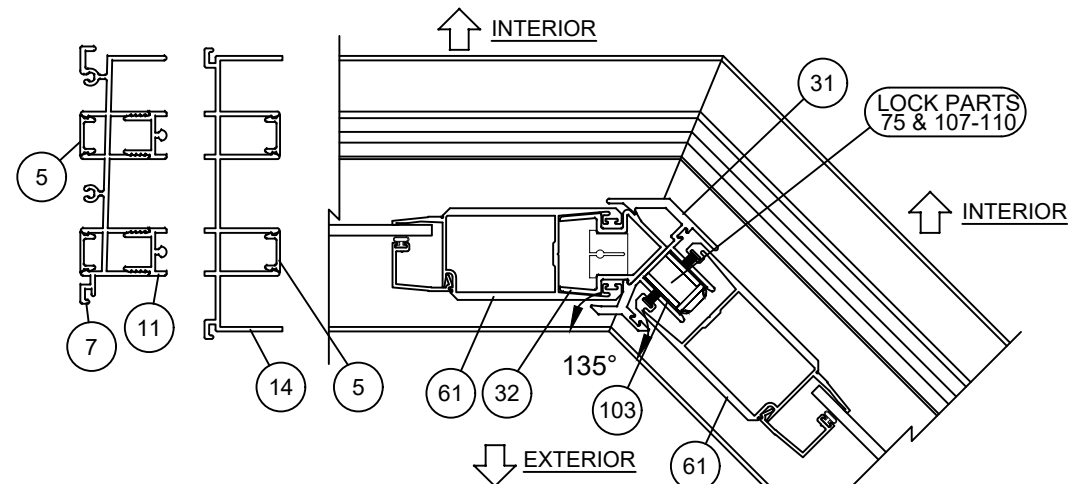
DET O2 135° INSIDE CORNER
2-TRACK SHOWN



DET M INTERLOCK



DET O1 135° OUTSIDE CORNER
2-TRACK SHOWN



DET O2 135° INSIDE CORNER
2-TRACK SHOWN

* ITEM #61 (HEAVY-DUTY STILE) SHOWN, ITEM #60 (STANDARD STILE) ALSO APPLICABLE, SEE TABLES 1-3, SHEETS 6-8 FOR DP (PSF) ASSOCIATED WITH STILES.

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HORIZ. SECTIONS - CORNERS		SGD-670		No.	19 OF 22
SGD-670		SGD670-FPA		Rev.	-

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
Anthony Lynn Miller
 01/28/22
 STATE OF
 FLORIDA
PROFESSIONAL ENGINEER

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

TABLE 4:

Item #	PGT Dwg. #	PGT #	Description
1	17306	617306	2-TRACK HEAD
2	17303	617303	2-TRACK HEAD WITH SCREEN RAIL
3	17309	617309	3-TRACK HEAD
4	17312	617312	4-TRACK HEAD
5	17314	617314	FRAME SCREW COVER
6	17317	617317	FRAME HEAD/JAMB SCREEN ADD-ON
7	17304	617304	2-TRACK SILL
8	17301	617301	2-TRACK SILL WITH SCREEN RAIL
9	17307	617307	3-TRACK SILL
10	17310	617310	4-TRACK SILL
11	17313	617313	FRAME SILL TRACK INSERT
12	17315	617315	FRAME SILL SCREEN ADD-ON (SEE NOTE 3)
13	17316	617316	FRAME SILL SCREEN END ADD-ON (SEE NOTE 3)
14	17305	617305	2-TRACK JAMB
15	17302	617302	2-TRACK JAMB WITH SCREEN RAIL
16	17308	617308	3-TRACK JAMB
17	17311	617311	4-TRACK JAMB
18	17322	617322	SILL RISER - FLAT, FLUSH, 1-1/2"
19	17319	617319	SILL RISER - BOX, FLUSH, 1-1/2"
20	17321	617321	SILL RISER - FLAT, LOW, 2-1/2"
21	17318	617318	SILL RISER - BOX, LOW, 2-1/2"
22	17355	617355	SILL RISER - FLAT, MEDIUM, 3-1/4"
23	17354	617354	SILL RISER - BOX, MEDIUM, 3-1/4"
24	17323	617323	SILL RISER - FLAT, HIGH, 4"
25	17320	617320	SILL RISER - BOX, HIGH, 4"
26	17333	617333	POCKET P-HOOK
27	7070	67070	NEOPRENE BULB WSTP FOR P-HOOK
28	17334	617334	POCKET P-HOOK MOUNT
29	17335	617335	P-HOOK COVER
30	17348	617348	POCKET P-HOOK FOR BOX RISER
31	17376	617376	135 CORNER
32	17378	617378	135 FIXED MOUNT
ITEMS 40-53 ARE SCREEN PARTS:			
40	4319	612258	SCREEN SIDE RAIL - LOCKSTILE
41		7LOCKWGSK	SCREEN LOCKSET
42		41818	SCREEN KEEPER SPACER SET
43	8152	68152	SCREEN INTERLOCK ADAPTER
44	4428	64428	SCREEN DOUBLE INTERLOCK
45	4317	612256	SCREEN TOP RAIL
46	4318	612257	SCREEN BOTTOM RAIL
47	668	7SRAZ	STANDARD ROLLER
48	668	7SRAX	STANDARD ROLLER - ST. STL.

Item #	PGT Dwg. #	PGT #	Description
49	4344	64344	SCREEN ASTRAGAL
50	17349	617349	OXO SCREEN ASTRAGAL ADAPTER
51	1692	61692	SCREEN SPLINE - .165"
52	1694	61694	SCREEN SPLINE - .150"
53		61816C20	SCREEN CLOTH
54	1725		1/2" X 4" X 1/16" SET. BLOCK, NEOPRENE 85 +/-5
55	1726		1" X 4" X 1/16" SET. BLOCK, NEOPRENE 85 +/-5
60	17325	617325	PANEL STILE
61	17326	617326	PANEL STILE (HEAVY DUTY)
62	17327	617327	INTERLOCK ADAPTOR
63	1225	6TP248	VINYL BULB WSTP. - THIN (INSIDE INTERLOCK)
64	1729	71729	SILL END WEATHERSTRIP PAD
65	17328	617328	INTERLOCK SCREW COVER
67	17329	617329	ASTRAGAL
68	17339	617339	HEAVY DUTY ASTRAGAL
69	17324	617324	TOP & BOTTOM RAIL
70	17350	417350	WEATHERSTRIP EXTENSION (INJECTION MOLDED)
71	1695	71695	1-1/2" X 1" X 3/4" HIGH FIN SEAL DUST PLUGS
72	8153	78153X	TANDEM ST. STL. ROLLER ASSY.
73	8153	78153N	TANDEM NYLON ROLLER ASSY.
74		SILICONE	DOW-791, 899, 983, 995 OR GE-7700
75	8185	78185X	GEMINI MORTICE 3-PLY DUAL LOCK W/LONG TRIM PLATE
76		71032X1FFPX	#10-32 X 1" FL. SS SCREW W/ TYPE "F" TIP
77		7103239	10-32 STEEL ZINC U-NUT
78	17358	617358	3/16 & 1/4" BEAD
79	17357	617357	1" IG BEAD
80	17359	617359	7/16" BEAD / FIXED PANEL CLIP
82	1224	6TP247K	VINYL BULB WEATHERSTRIP
83	61745	1745	LOWE INC, 1/2" X 1/16" SGL. SIDE ADH. TAPE, POLYETH.
100	8052	48052	ROLLER ADJ. HOLE PLUG
101		72087	JAMB BUMPER
102	1696	71696	DUST PLUG
103	8186	78186X	1" KEEPER
104	653	7SDKEEP	SCREEN LOCK KEEPER
105	17344	617344	FIXED PANEL CLIP - 6" LONG
106	17352	617352	FIXED PANEL RETAINER - 9/16"
107	1739	71739	HANDLE KIT - INTERIOR RAISED WITH THUMB TURN, USED WITH #75
108	1740	71740	HANDLE KIT - RAISED EXTERIOR HANDLE, USED WITH #75
109	1731	78162SN	HANDLE KIT - RECESSED INT. WITH THUMB TURN, USED WITH #75
110	1732	78178	HANDLE KIT - RECESSED EXTERIOR PULL, USED WITH #75
111		710X34PPSDAX	#10 X 3/4" PH. PN. TEK - S.S.
112	1235	67S16	WSTP, .270 X .170 - FIN SEAL
113	1712	64066	.187" X .230" FINSEAL
114		710X115PPX	#10 X 1-1/2"
115		710XPPT	#10 X 1"
116		720X1X	#14-20 X 1" S.S.
117		720X112X	#14-20 X 1-1/2" S.S.
118	17336	617336	90 DEGREE CORNER RECEIVER
119	17337	617337	90 DEGREE OUTSIDE CORNER ASTRAGAL
120	17338	6117338	90 DEGREE INSIDE CORNER ASTRAGAL
123	17352	617352	FIXED PANEL RETAINER, 7/8"

NOTES:

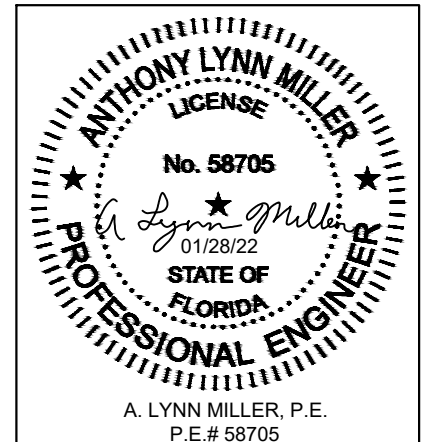
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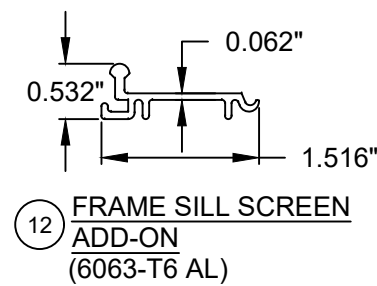
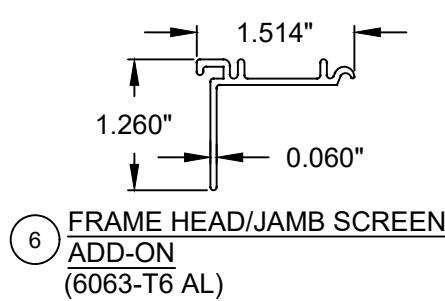
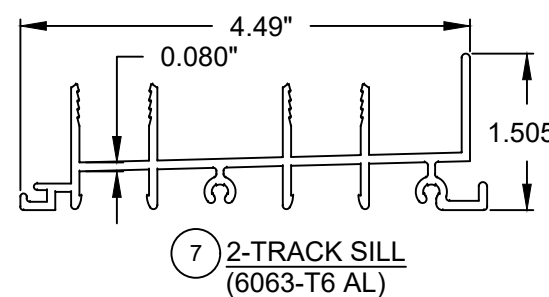
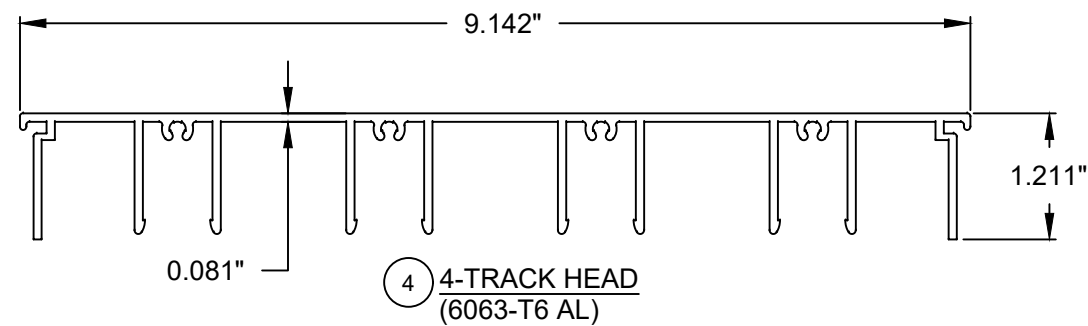
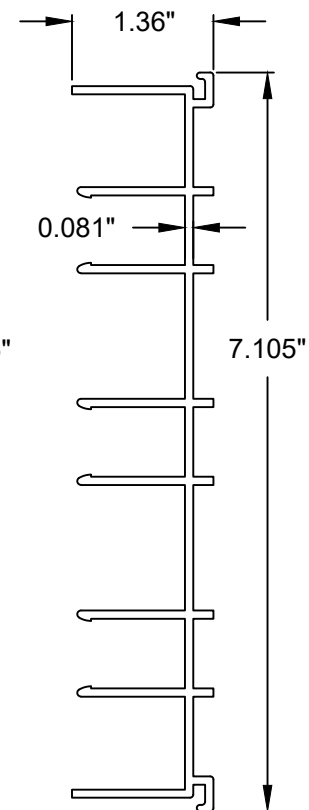
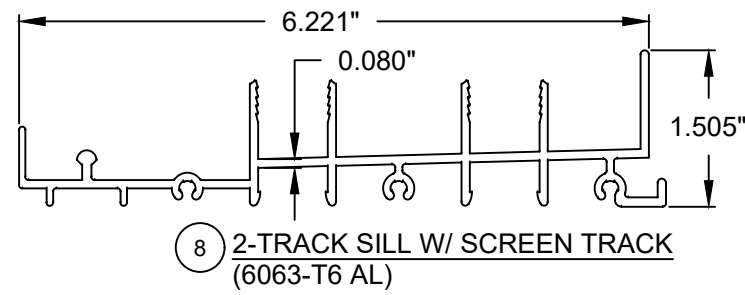
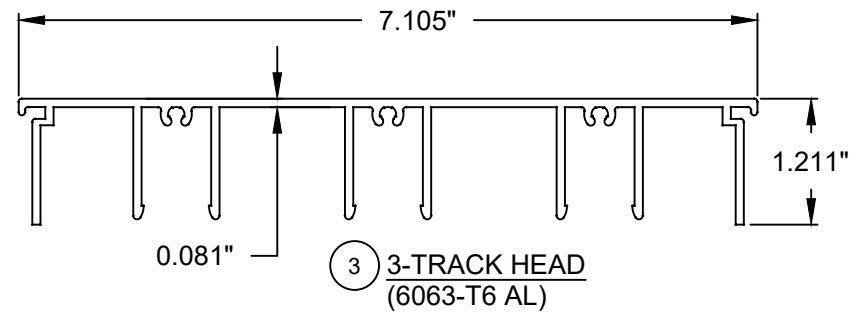
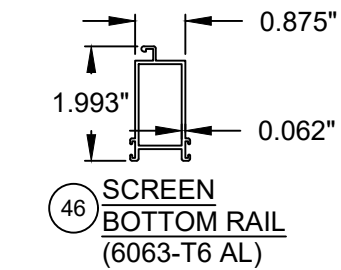
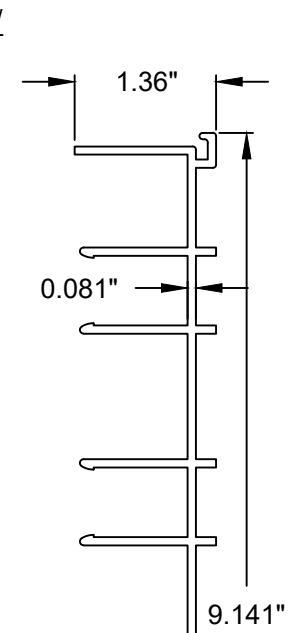
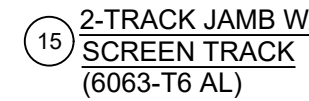
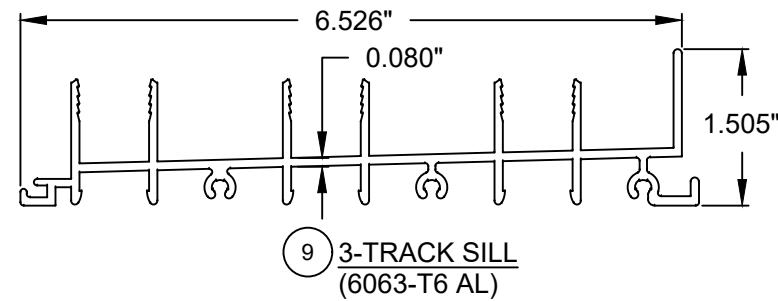
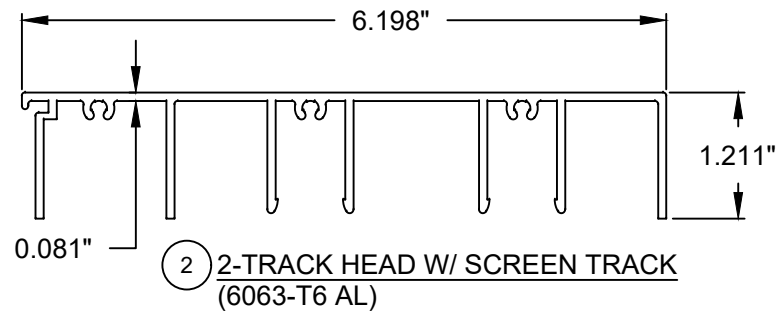
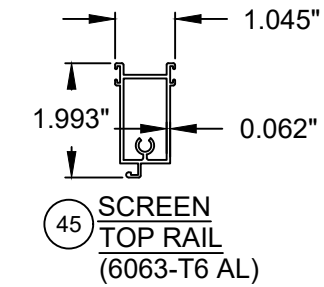
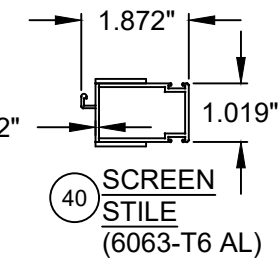
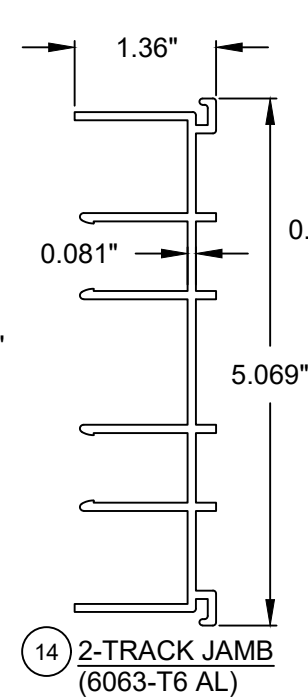
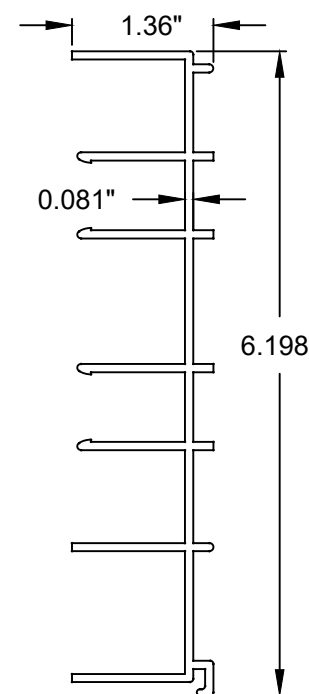
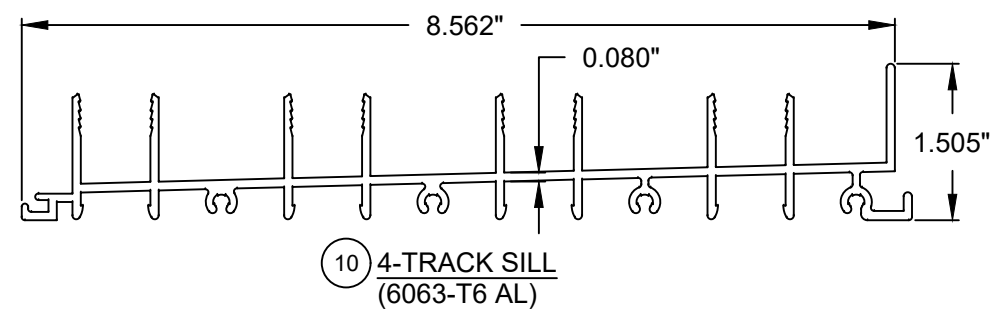
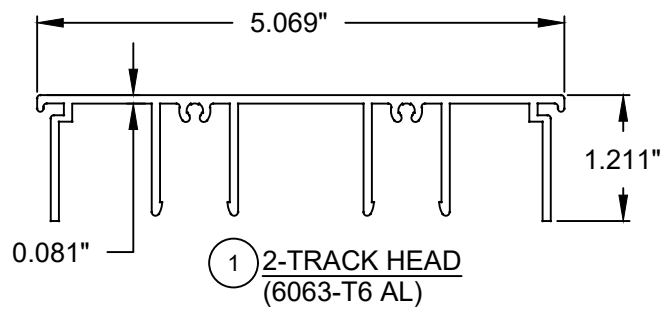
2) ITEMS # 33-39, 56-59, 66, 81, 84-99, 121 & 122 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

3) USE OF #12 OR #13 REQUIRES MIN. #10 SMS OR 3/16" MASONRY ANCHORS @ 24" MAX. O.C.

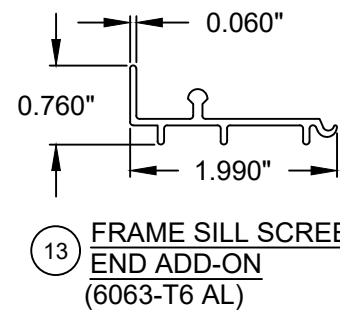
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	By	ERIN KOSS	DWG No.	SGD670-FPA
ALUM. SLIDING GLASS DOOR INSTALL. (NI) BILL OF MATERIALS		Sheet	20 OF 22	Series
		Desc.	SGD-670	





REQUIRES MIN. #10 SMS
OR 3/16" MASONRY
ANCHORS @ 24" MAX. O.C.



REQUIRES MIN. #10 SMS
OR 3/16" MASONRY
ANCHORS @ 24" MAX. O.C.

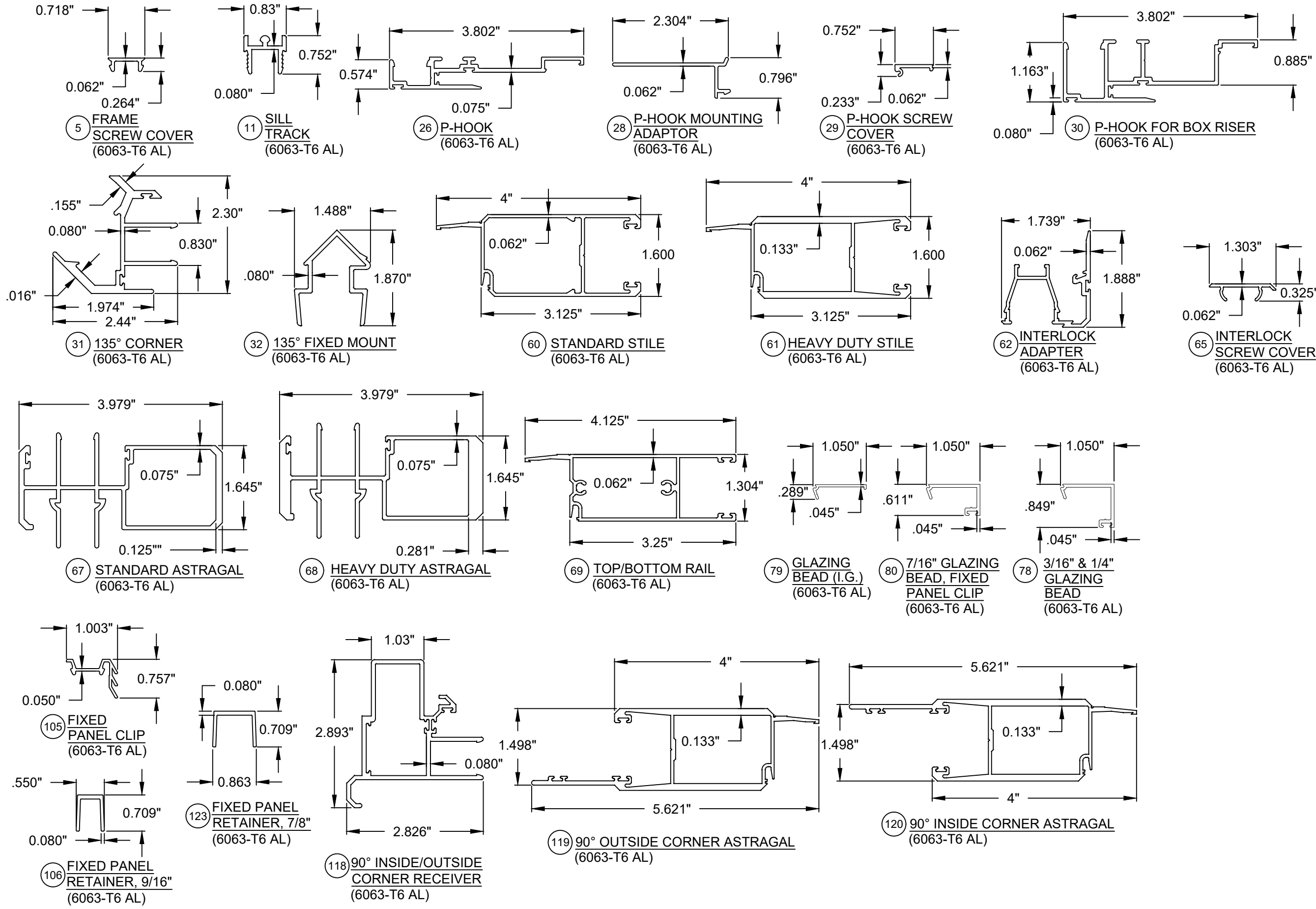
SEE SHEET 17 FOR SILL RISERS.

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		By	ERIN KOSS
ALUM. SLIDING GLASS DOOR INSTALL. (NI)	REGISTRATION #29296	DWG No.	SGD670-FPA
		Sheet	21 OF 22
EXTRUSIONS		Series	SGD-670

ANTHONY LYNN MILLER
LICENSE
No. 58705
01/28/22
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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



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ALUM. SLIDING GLASS DOOR INSTALL. (NI)		By	ERIN KOSS
EXTRUSIONS		DWG No.	SGD670-FPA
REGISTRATION #29296		Sheet	22 OF 22
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