

SERIES 780, IMPACT RESISTANT SLIDING GLASS DOOR INCLUDING INT./EXT. POCKETS & 90°/135° CORNERS

FLORIDA PRODUCT APPROVAL #33106

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

DESIGN PRESSURE RATING
SEE TABLES 1-4 & C1-C3 ON SHEETS 7-9

GENERAL NOTES

- 1) GLAZING TYPE OPTIONS: SEE TABLE B, THIS SHEET & GLAZING DETAILS ON SHEET 12.
- 2) DESIGN PRESSURES:
 - A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E1300.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E1300.
 - C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 3) 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.
- 4) SHUTTERS ARE NOT REQUIRED PER FBC REQUIREMENTS, AS APPLICABLE.
- 5) 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.
- 6) REFERENCES: ELCO ULTRACON, DEWALT ULTRACON+, ELCO/DEWALT CRETEFLEX AND ELCO/DEWALT AGGREGATOR NOA'S, ANSI/AF&PA NDS FOR WOOD CONSTRUCTION AND ADM, ALUMINUM DESIGN MANUAL.
- 7) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 8) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.

ANCHOR NOTES

- 1) FOR CONCRETE/CMU SUBSTRATE APPLICATIONS, USE ONLY APPROVED ANCHORS. SEE TABLE A ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS.
- 2) FOR OTHER SUBSTRATE APPLICATIONS SEE TABLE A ON THIS SHEET.
- 3) 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 OR CMU. 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.
- 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) 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)	Table #	Sheet #
1	7/16" Lami.: 3/16" AN - .090" PVB - 3/16" HS	2	7
2	9/16" Lami.: 1/4" AN - .090" PVB - 1/4" HS	2	7
3	1-1/16" Lami. I.G.: 3/16" TP - AIR - 3/16" AN - .090" PVB - 3/16" HS	2	7
4	1-1/16" Lami. I.G.: 1/4" TP - AIR - 3/16" AN - .090" PVB - 3/16" HS	2	7
5	7/16" Lami.: 3/16" AN - .090" SG - 3/16" HS	1	7
6	7/16" Lami.: 1/4" AN - .090" SG - 1/4" HS	1	7
7	7/16" Lami.: 3/16" HS - .090" SG - 3/16" HS	3	8
8	9/16" Lami.: 1/4" HS - .090" SG - 1/4" HS	3	8
9	1-1/16" Lami. I.G.: 3/16" TP - AIR - 3/16" AN - .090" SG - 3/16" HS	1	7
10	1-1/16" Lami. I.G.: 1/4" TP - AIR - 3/16" AN - .090" SG - 3/16" HS	1	7
11	1-1/16" Lami. I.G.: 3/16" TP - AIR - 3/16" HS - .090" SG - 3/16" HS	3	8
12	1-1/16" Lami. I.G.: 1/4" TP - AIR - 3/16" HS - .090" SG - 3/16" HS	3	8
13	7/16" Lami.: 3/16" HS - .120" PVB - 3/16" HS	4	9
14	9/16" Lami.: 1/4" HS - .120" PVB - 1/4" HS	4	9
15	1-1/16" Lami. I.G.: 3/16" TP - AIR - 3/16" HS - .120" PVB - 3/16" HS	4	9
16	1-1/16" Lami. I.G.: 1/4" TP - AIR - 3/16" HS - .120" PVB - 3/16" HS	4	9
17	7/16" Lami.: 3/16" HS - .090" PVB-1 - 3/16" HS	4	9
18	9/16" Lami.: 1/4" HS - .090" PVB-1 - 1/4" HS	4	9
19	1-1/16" Lami. I.G.: 3/16" TP - AIR - 3/16" HS - .090" PVB-1 - 3/16" HS	4	9
20	1-1/16" Lami. I.G.: 1/4" TP - AIR - 3/16" HS - .090" PVB-1 - 3/16" HS	4	9

SEE GLAZING DETAILS ON SHEET 12.

GENERAL NOTES.....	1
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TABLE A:

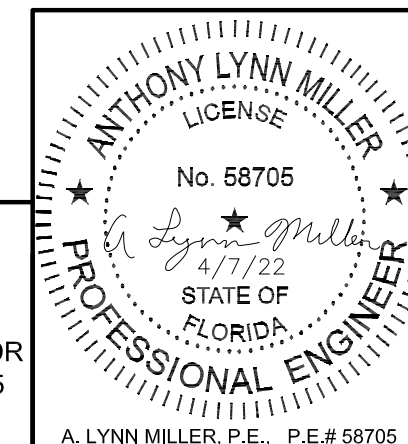
Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 410 SS SMS (min. of 3 threads beyond metal substrate)	All	Southern Pine (SG = 0.55)	9/16"	7/8"	1-3/8"
			6063-T5 Aluminum	3/8"	9/16"	0.063"
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
	1/4" 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"	0.063"
			A36 Steel	3/8"	9/16"	0.050"
			Gr. 33 Steel Stud	3/8"	9/16"	0.045" (18 Ga)
C	1/4" steel 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" steel UltraCon+®	All	Concrete (min. 3 ksi)	1-5/16"	4"	1-3/8"
		Jamb / P-hook	Hollow Block (ASTM C90)	1"	3"	1-1/4"
D	1/4" steel 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 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)	1-3/4"	6"	1-1/4"
		All	Southern Pine (SG = 0.55)	1"	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) HOLLOW BLOCK VALUES MAY ALSO BE USED IN FILLED BLOCK APPLICATIONS.
- 4) FOR THE MINIMUM STRENGTHS OF ANCHORS AND SUBSTRATES, SEE TABLE E, SHEET 19.

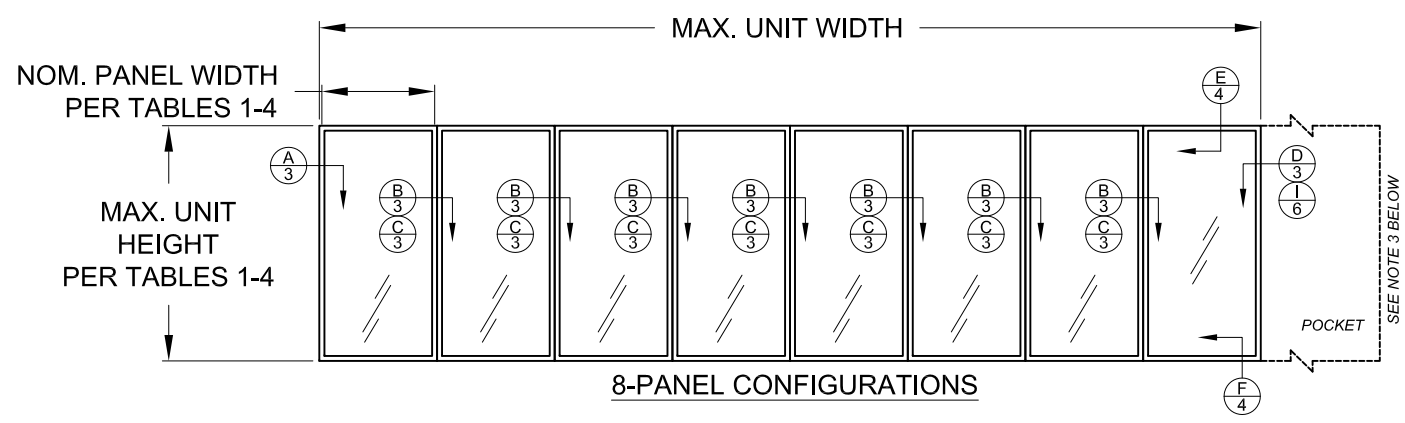
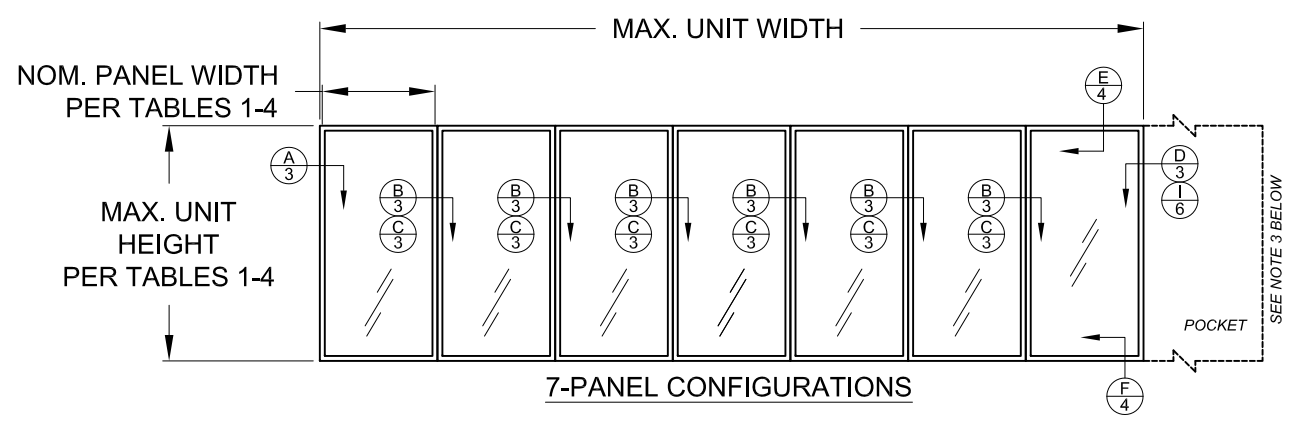
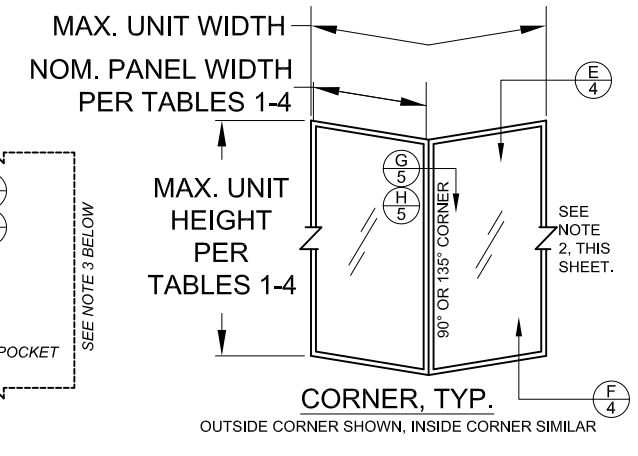
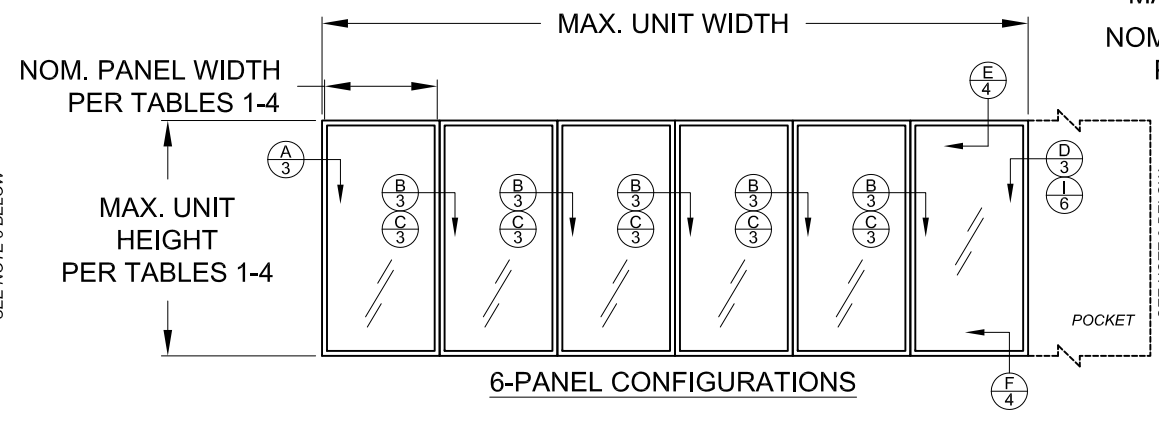
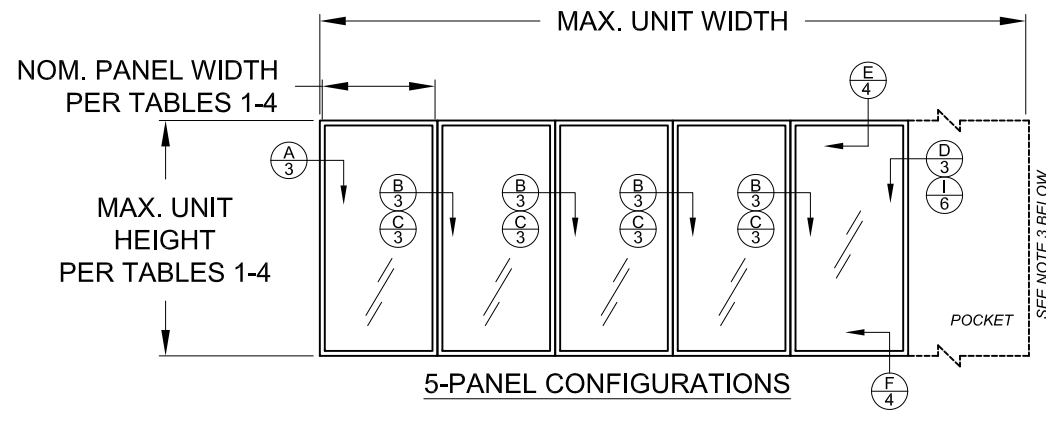
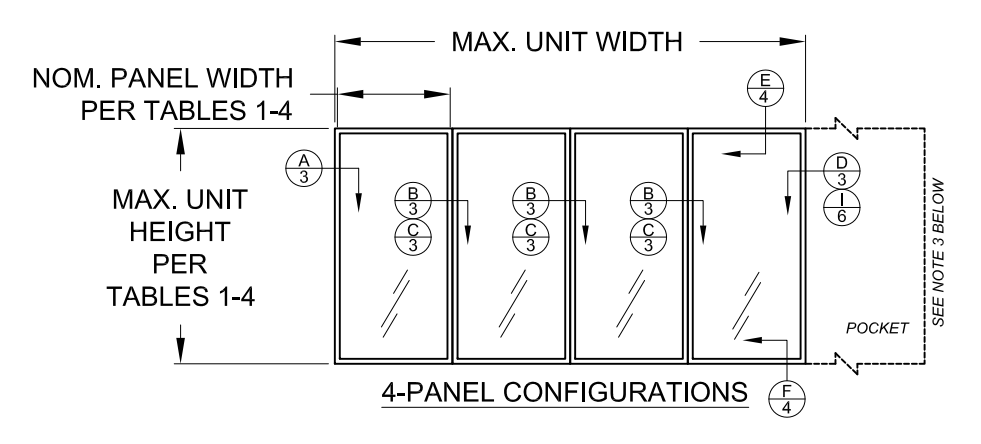
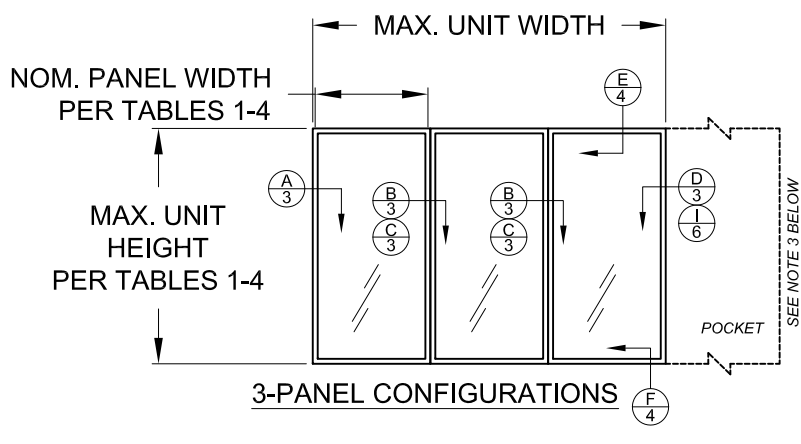
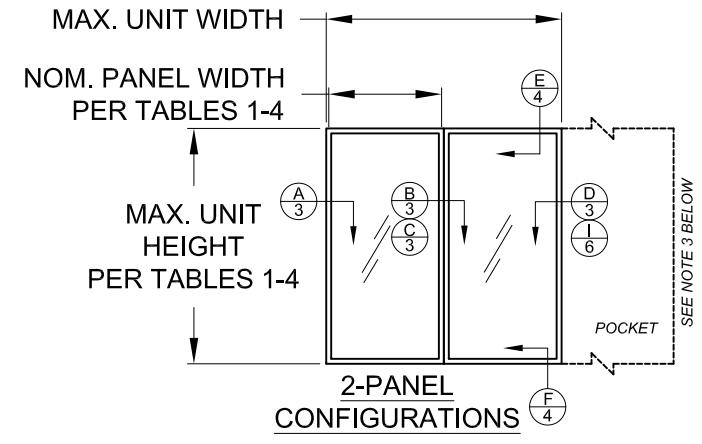
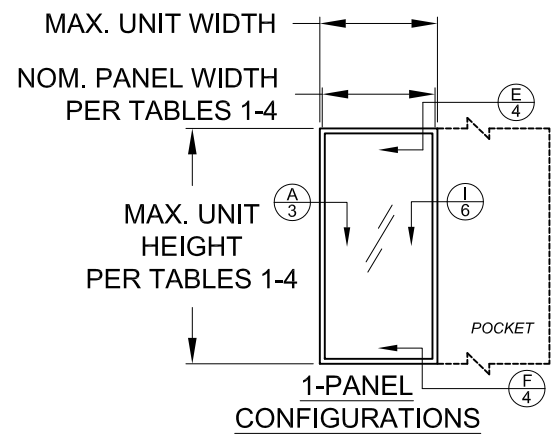
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	GENERAL NOTES		Drawn By	J ROSOWSKI
Rev.	ADDED GLASS TYPES 17 - 20.		Rev. Date	4/7/22
Series	SGD-780	Scale	NTS	Sheet 1 OF 19
	DWG No.	SGD780-FPA.1	Rev. No.	A

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



CONFIGURATIONS NOTES:

1) ALL CONFIGURATIONS SHOWN ARE ALSO AVAILABLE AS POCKET CONFIGURATIONS AT EITHER OR BOTH JAMB LOCATIONS. 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 ARE A COMBINATION OF ANY 2 STRAIGHT CONFIGURATIONS.

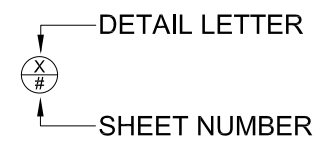
3) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

4) FOR NOM. PANEL WIDTH, SEE TABLES 1-4.

5) MAX. ALLOWABLE FRAME SQUARE FOOTAGE = 462.11 FT²

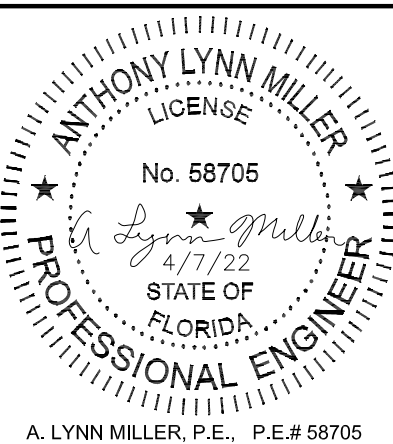
"X" = OPERABLE PANEL
 "O" = INOPERABLE PANEL
 "p" = POCKET

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"



Series	SGD-780	Scale	NTS	Sheet	2 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
Desc.	CONFIGURATIONS		Drawn By	J ROSOWSKI					
Rev.			Rev. Date						

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OPT. 1X OR 2X WOOD BUCKSTRIP,
SEE ANCHOR NOTE 3, SHEET 1

DETAIL A1
THRU 1X WOOD
INTO MASONRY

DETAIL B1
ASTRAGAL
FACING EXT.

DETAIL C1
INTERLOCK

DETAIL D1
INTO METAL

METAL TYP., SEE ANCHOR
NOTE 4, SHEET 1; MIN. OF 3
THREADS BEYOND THE
METAL SUBSTRATE

CONCRETE/CMU PER
ANCHOR REQUIREMENT

TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE PER
SUBSTRATE, SEE
TABLE A, SHEET 1 &
NOTE 3, BELOW

EMBEDMENT
EDGE DISTANCE

1/4" MAX.

DAYLIGHT
OPENING
WIDTH

EXTERIOR

FRAME WIDTH

NOM. PANEL WIDTH

12" FIXED "O" PANEL BRACKET
@ TOP AND BOTTOM

EXTERIOR

SEE TABLES 1-4 FOR
REINFORCEMENT
REQUIREMENTS

TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE PER
SUBSTRATE, SEE TABLE A,
SHEET 1 & NOTE 3, BELOW

1/4" MAX.

EMBEDMENT

EDGE
DISTANCE

1-1/2" FROM
EACH END

EDGE
DISTANCE

DETAIL A2
INTO 2X WOOD

DETAIL C2
INTERLOCK

DETAIL D2
INTO MASONRY

DETAIL B2
ASTRAGAL
FACING INT.

2X WOOD
BUCKSTRIP OR
FRAMING, SEE
ANCHOR NOTE 3,
SHEET 1

EMBEDMENT
1/4" MAX.

DAYLIGHT
OPENING
WIDTH

TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE PER
SUBSTRATE, SEE
TABLE A, SHEET 1 &
NOTE 3, BELOW

EDGE
DISTANCE

SEE TABLES
1-3 FOR
REINFORCEMENT
REQUIREMENTS

EDGE DISTANCE

TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE
PER SUBSTRATE,
SEE TABLE A, SHEET
1 & NOTE 3, BELOW

EMBEDMENT

CONCRETE/CMU
PER ANCHOR
REQUIREMENT

ASTRAGAL MAY BE
INSTALLED IN EITHER
INTERIOR OR EXTERIOR
DIRECTION. ALL PARTS
IDENTICAL.

INTERIOR

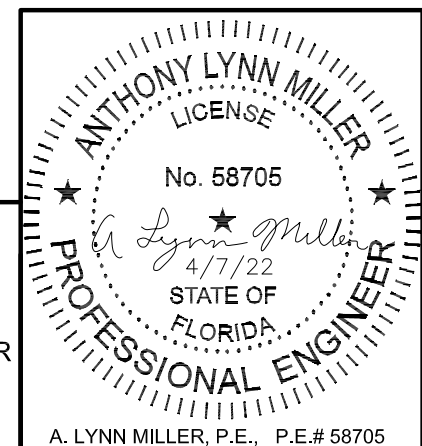
HORIZONTAL SECTION (XO SHOWN)

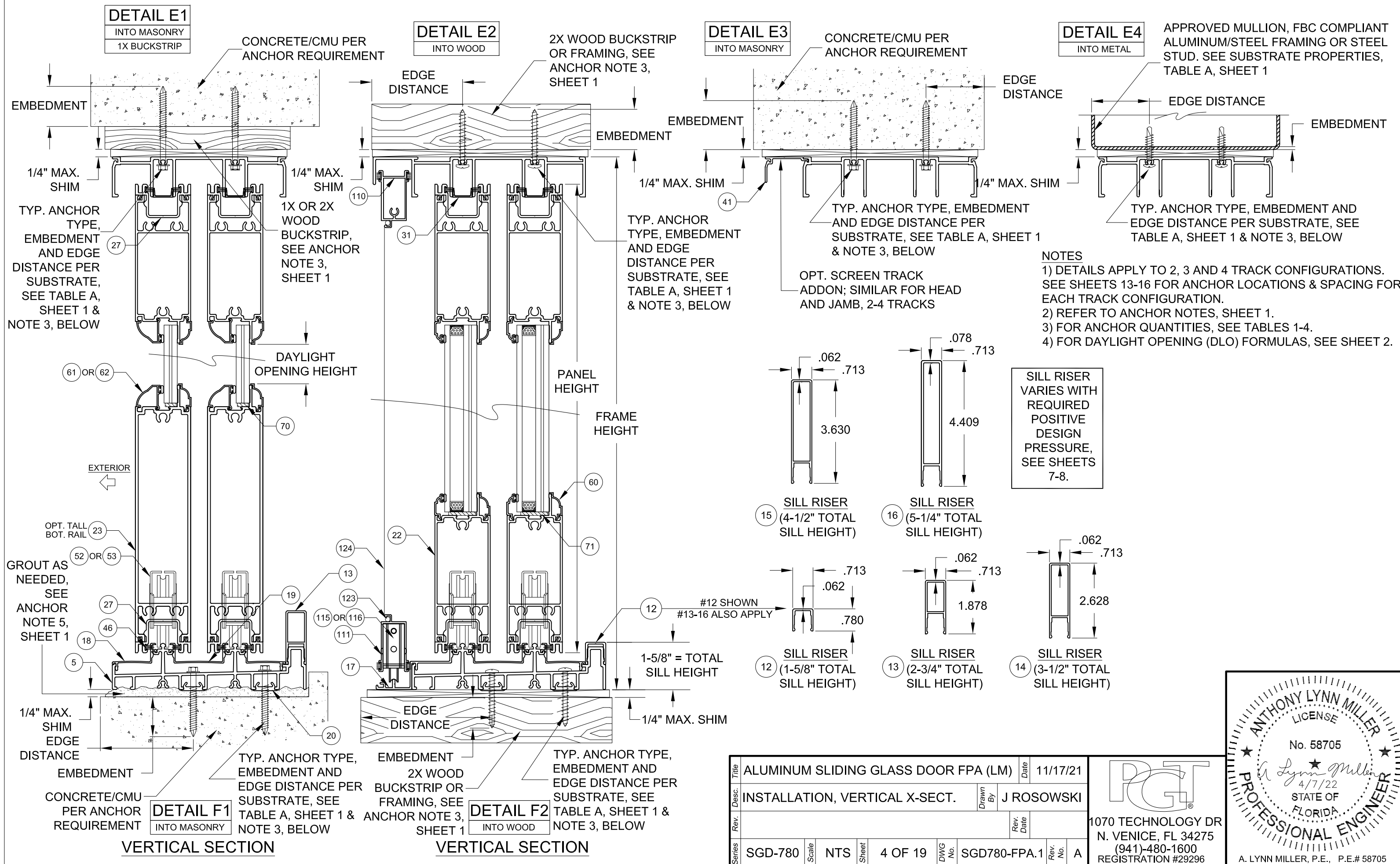
NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS. SEE SHEET 13 FOR ANCHOR LOCATIONS & SPACING FOR EACH TRACK CONFIGURATION.
- 2) REFER TO ANCHOR NOTES, SHEET 1.
- 3) FOR ANCHOR QUANTITIES, SEE TABLES 1-4.
- 4) ALL REINFORCEMENTS ARE APPROXIMATELY THE FULL LENGTH OF THE EXTRUSION. REFER TO TEST REPORTS FOR EXACT DIMENSIONS.
- 5) FOR DAYLIGHT OPENING (DLO) FORMULAS, SEE SHEET 2.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
	Desc.	INSTALLATION, HORIZONTAL X-SECT.		Drawn By	J ROSOWSKI				
Rev.				Rev. Date					
	Series	SGD-780	Scale	NTS	Sheet	3 OF 19	DWG No.	SGD780-FPA.1	Rev. No.

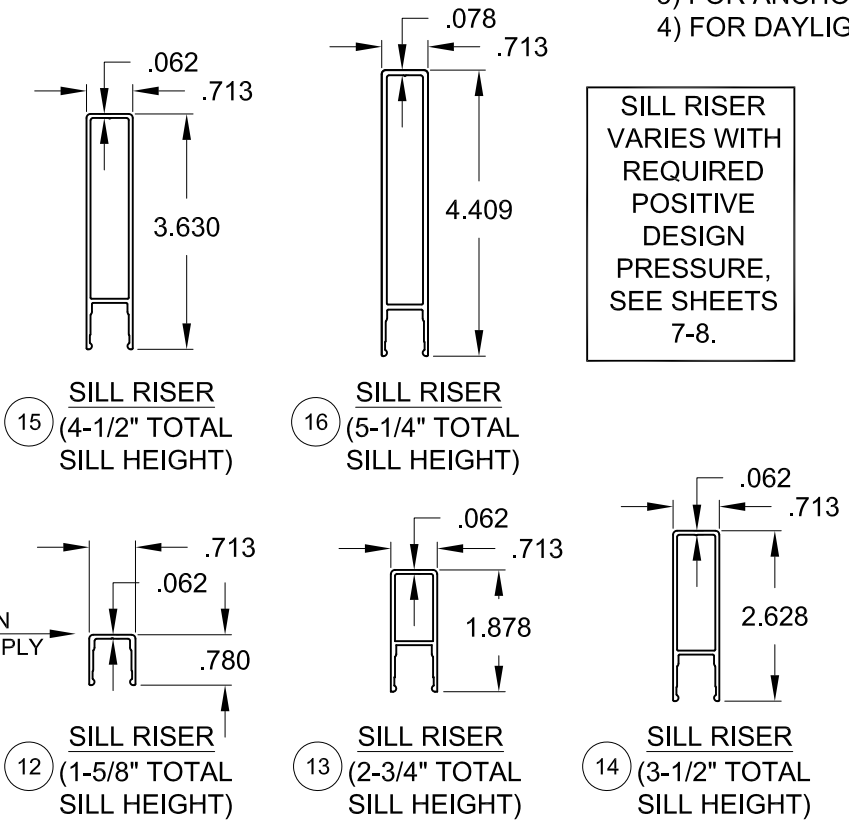
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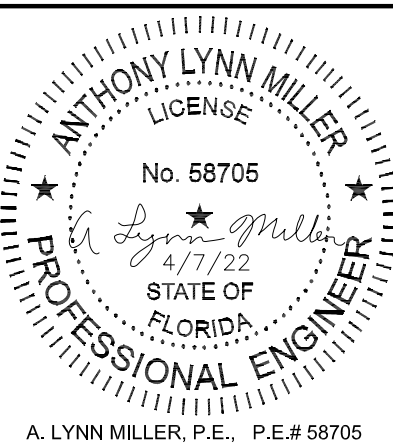
NOTES
 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS. SEE SHEETS 13-16 FOR ANCHOR LOCATIONS & SPACING FOR EACH TRACK CONFIGURATION.
 2) REFER TO ANCHOR NOTES, SHEET 1.
 3) FOR ANCHOR QUANTITIES, SEE TABLES 1-4.
 4) FOR DAYLIGHT OPENING (DLO) FORMULAS, SEE SHEET 2.

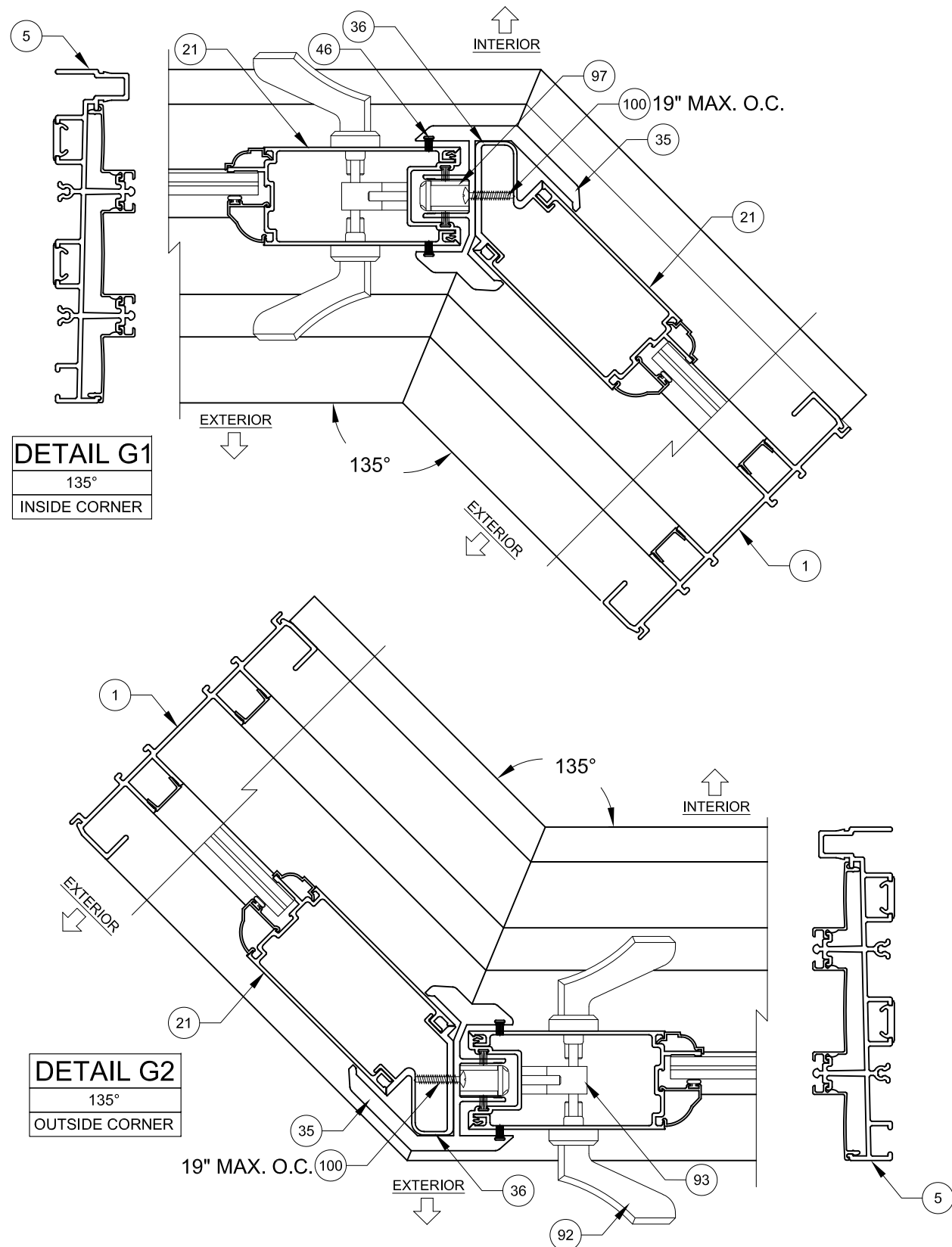
SILL RISER VARIES WITH REQUIRED POSITIVE DESIGN PRESSURE, SEE SHEETS 7-8.



Series	SGD-780	Scale	NTS	Sheet	4 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
Desc.	INSTALLATION, VERTICAL X-SECT.		Drawn By	J ROSOWSKI					
Rev.			Rev. Date						

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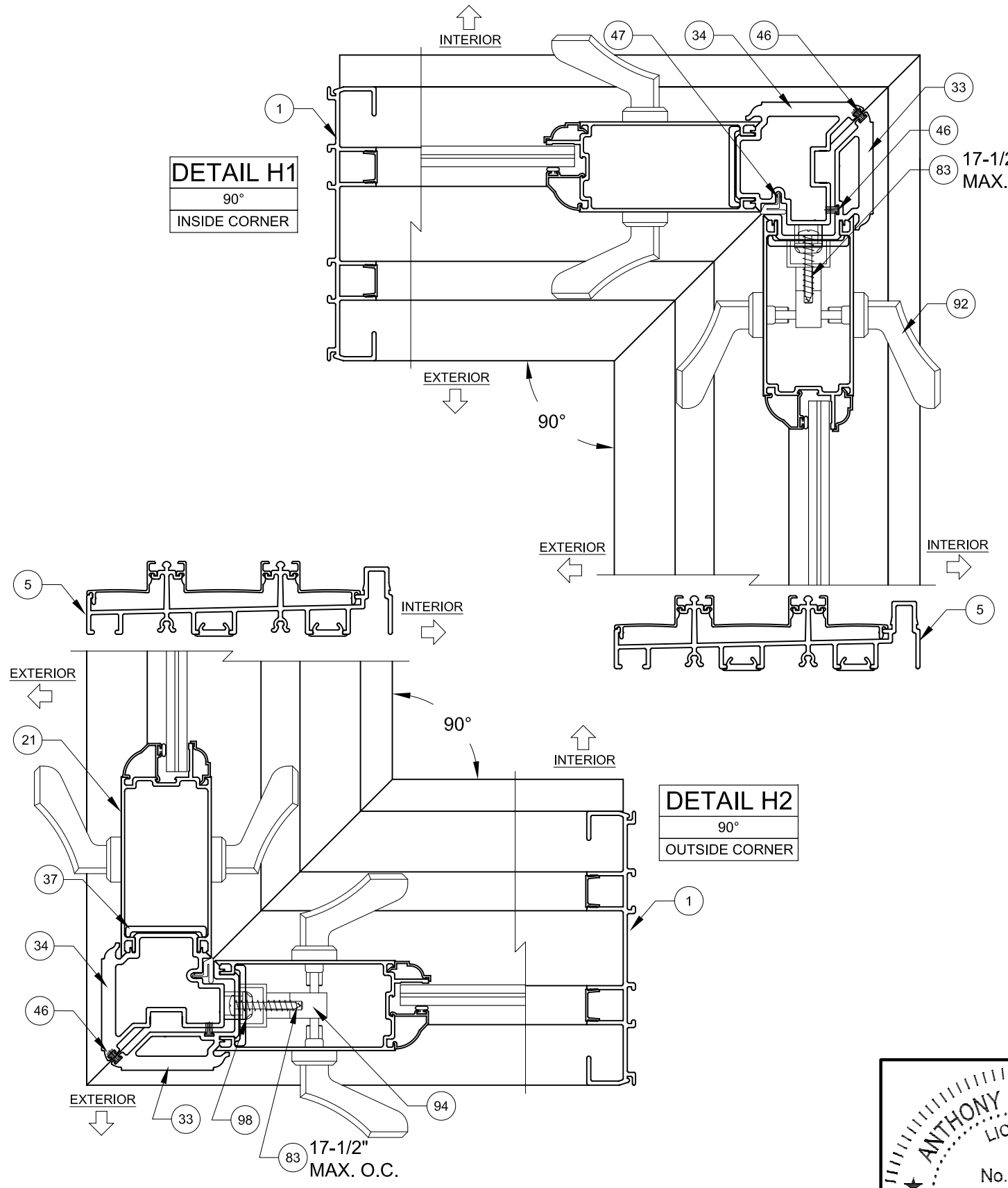




DETAIL G1
135°
INSIDE CORNER

DETAIL G2
135°
OUTSIDE CORNER

DETAIL H1
90°
INSIDE CORNER

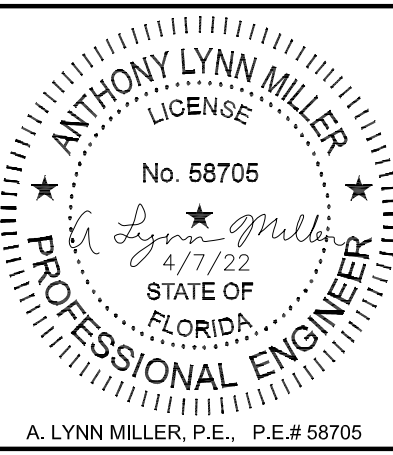


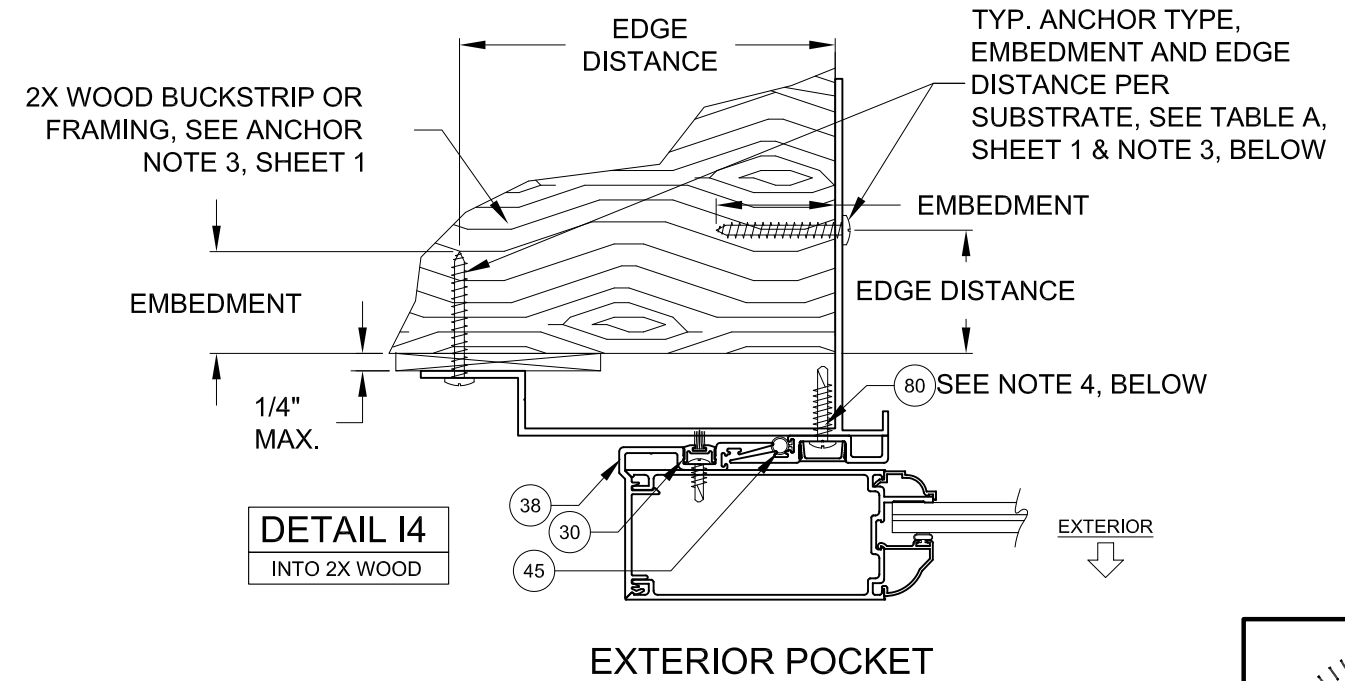
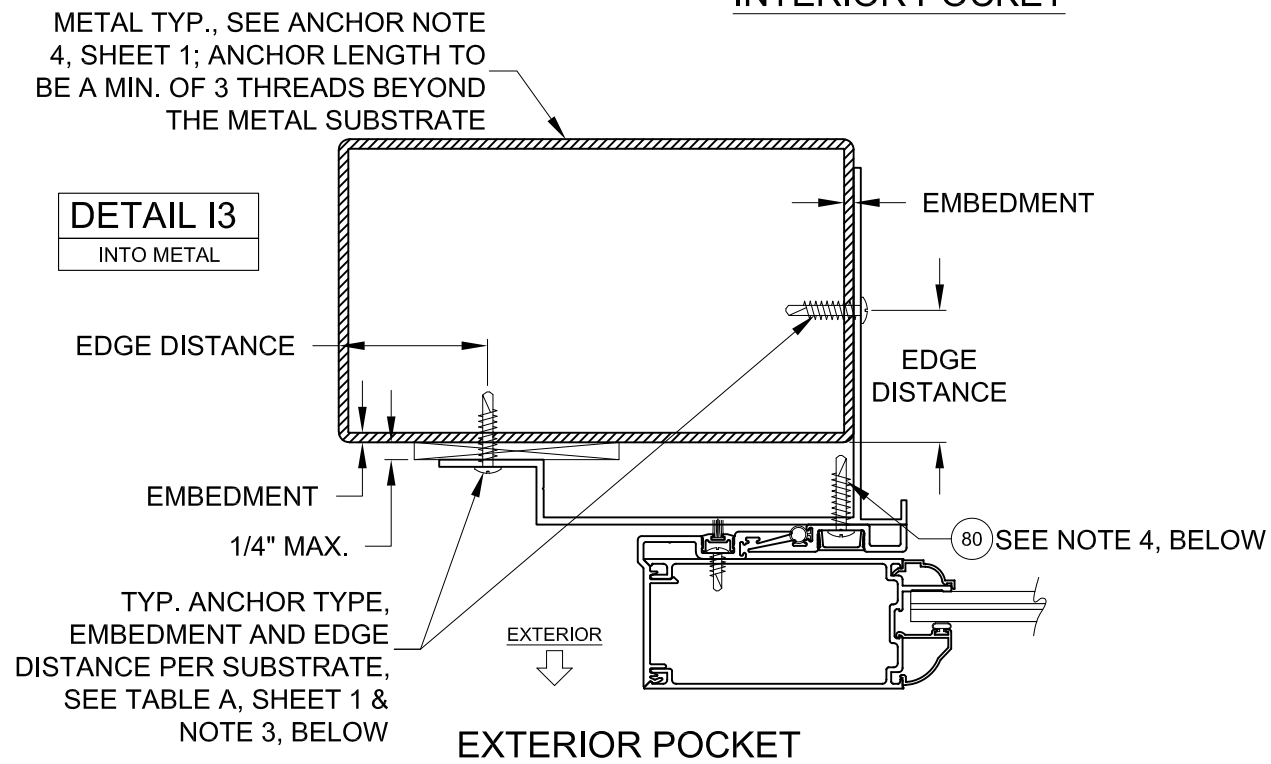
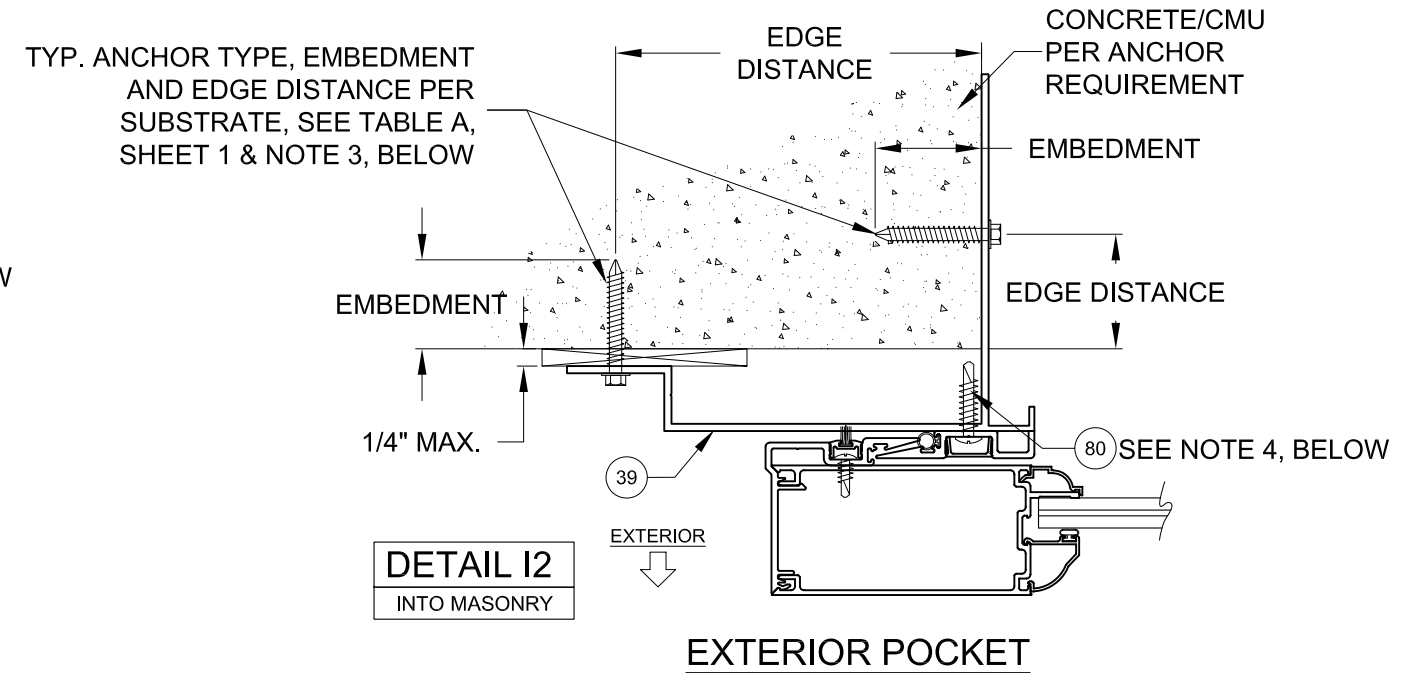
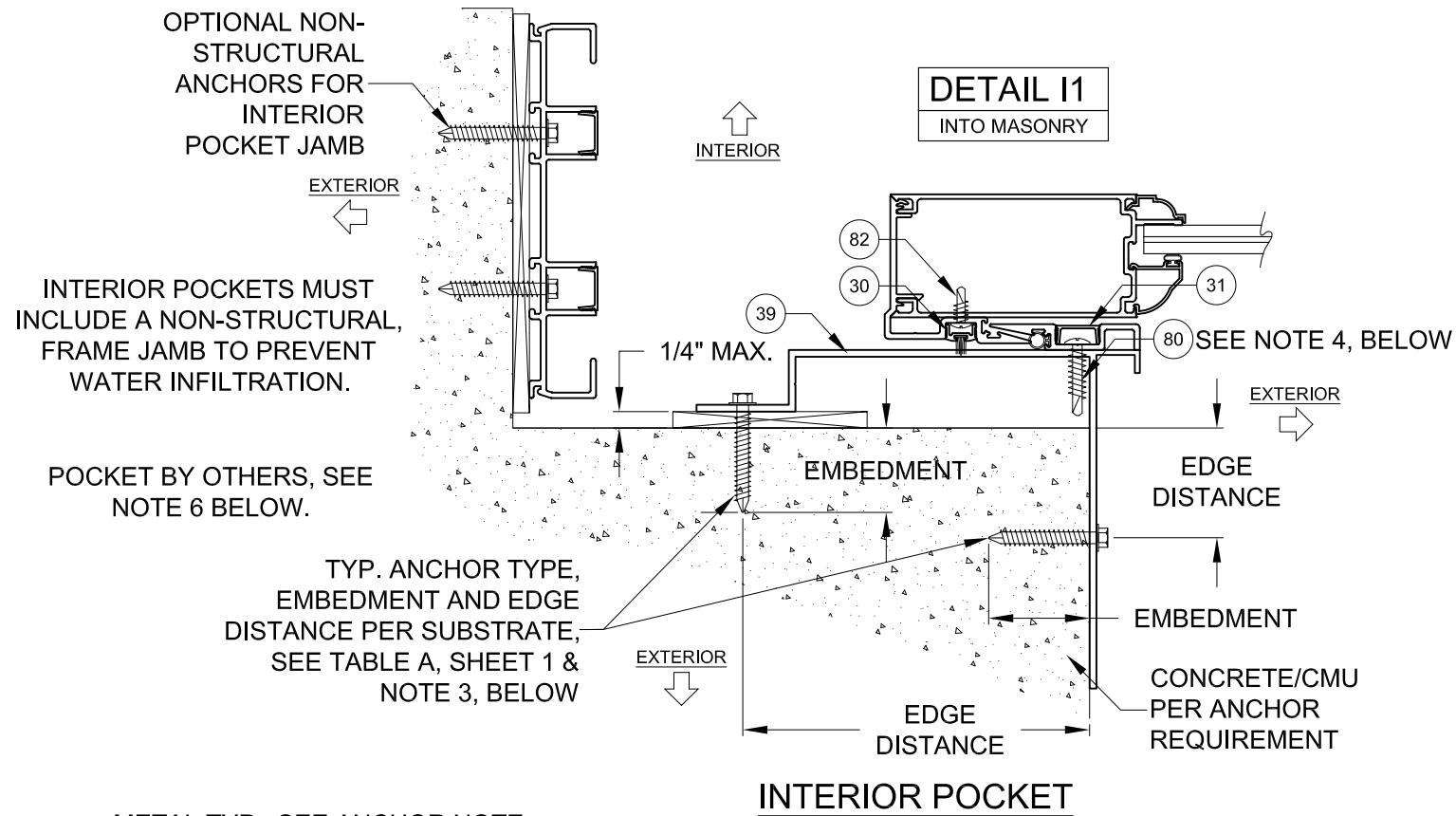
DETAIL H2
90°
OUTSIDE CORNER

NOTES
 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
 2) SEE SHEETS 14-15 FOR ANCHOR LOCATION & SPACING. FOR ANCHOR QUANTITIES, SEE TABLES 1-4.
 3) CORNER ASTRAGAL MAY BE EITHER TO THE INTERIOR OR EXTERIOR, DEPENDING ON CONFIGURATION.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)			Date	11/17/21
	Desc.	CORNER ASTRAGAL HORIZ. X-SECT.			Drawn By
Rev.					Rev. Date
Series	SGD-780	Scale	NTS	Sheet	5 OF 19
		DWG No.	SGD780-FPA.1	Rev. No.	A

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NOTES

- 1) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 2) REFER TO ANCHOR NOTES, SHEET 1.
- 3) SEE SHEET 16 FOR ANCHOR LOCATION & SPACING.
- 4) #10 X 3/4" SMS @ MAX. 5-1/2" FROM ENDS & 12" MAX. O.C.
- 5) INTERIOR OR EXTERIOR POCKETS APPLICABLE FOR ALL INSTALLATION METHODS.
- 6) POCKET WALL OR CAVITY IS NOT PART OF THIS APPROVAL AND IS TO BE DESIGNED BY OTHERS AND REVIEWED BY THE AUTHORITY HAVING JURISDICTION.

Series	SGD-780	Scale	NTS	Sheet	6 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
Desc.	P-HOOK EXAMPLES, HORIZ. X-SECT.		Drawn By	J ROSOWSKI					
Rev.			Rev. Date						

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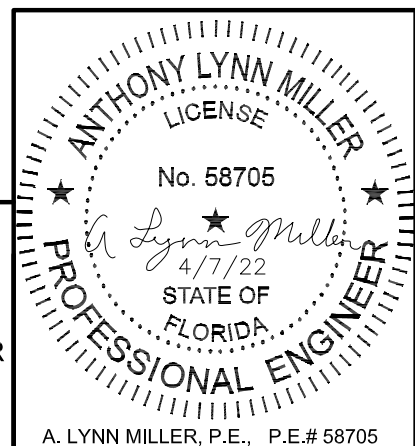


TABLE 1:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																							
For corner astragal anchorage on 90° & 135° corner units, see sheets 15 & 16																							
Table applies to Glass Types 5, 6, 9 & 10 containing ANN-HS SG Laminated Glazing. Reinforcement (part #29) is not required in the Exterior Interlock		Door Unit Height																					
		80"				84"				96"				108"				120"					
		77-3/4" Panel Height**				81-3/4" Panel Height**				93-3/4" Panel Height**				105-3/4" Panel Height**				117-3/4" Panel Height**					
		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		
Nominal Panel Width	36"	28-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			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	C6+1	C6+1	C4+1	C4+1
			Jamb	8	6	6	6	8	8	8	8	10	8	8	8	10	8	8	8	10	10	10	10
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
	42"	34-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			Head/Sill	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C6+2	C6+2	C4+2	C4+2	C6+2	C6+2	C6+1	C6+1	C6+2	C6+2	C6+1	C6+1
			Jamb	8	8	6	6	8	8	8	8	10	10	8	8	10	10	8	8	12	10	10	10
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
	48"	40-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				+60 / -70 psf				+60 / -70 psf			
			Head/Sill	C4+2	C4+2	C4+2	C4+2	C6+2	C6+2	C4+2	C4+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2
			Jamb	8	8	6	6	10	8	8	8	10	10	8	8	12	10	8	8	12	12	10	10
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
54"	46-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+80 / -80 psf				Not available in these sizes								
		Head/Sill	C4+3	C4+3	C4+2	C4+2	C6+3	C6+3	C4+2	C4+2	C6+3	C6+3	C6+2	C6+2									
		Jamb	10	8	6	6	10	8	8	8	12	10	8	8									
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4									
60"	52-1/8" DLO	Design Pressure	+80 / -80 psf				+80 / -80 psf				+76.2 / -76.2 psf *												
		Head/Sill	C6+3	C6+3	C4+3	C4+3	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3									
		Jamb	10	8	6	6	10	10	8	8	12	12	8	8									
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	4+4	4+4									

*+/- 80.0 PSF FOR GLASS TYPES 6, 9 & 10. **SEE FORMULAS BELOW

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE C1, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C4+1, 4 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS THROUGH THE P-HOOK INSTALLED FROM THE INTERIOR + THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.

TABLE 2:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																					
For corner astragal anchorage on 90° & 135° corner units, see sheets 15 & 16																					
Table applies to Glass Types 1 - 4 containing ANN-HS PVB Glazing. Reinforcement (part #29) is not required in the Exterior Interlock.		Door Unit Height																			
		80"				96"															
		77-3/4" Panel Height**				93-3/4" Panel Height**															
		Anchor Group				Anchor Group															
		A	B	C	D	A	B	C	D												
Nominal Panel Width	36"	28-1/8" DLO	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1										
			Jamb	6	6	6	6	8	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										
	42"	34-1/8" DLO	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1	C4+1										
			Jamb	6	6	6	6	8	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										
	48"	40-1/8" DLO	Design Pressure	+65 / -65 psf				+65 / -65 psf													
			Head/Sill	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2										
			Jamb	8	6	6	6	10	8	8	8										
			P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4										

**SEE FORMULAS BELOW

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

 USED IN EXAMPLE 2, SHEET 11

TABLE NOTES:

1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 1 OR 2 AND TABLE C1 DETERMINES THE WATER LIMITED (+) DP.

2) THE 1-5/8" SILL RISER, #12, MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLES 1 OR 2 MAY BE USED.

3) SEE SILL RISER TYPES ON SHEET 4.

4) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.

5) REFER TO ANCHOR NOTES, SHEET 1.

6) SEE SHEETS 13-16 FOR ANCHOR LOCATIONS & SPACING.

TABLE C1:

Water-Limited (+) Design Pressure		
Sill Riser	Total Sill Height	Max. (+) DP Allowed
12	1-5/8"	See Note 2
13	2-3/4"	+50.0 psf
14	3-1/2"	+73.3 psf
15	4-1/2"	+80.0 psf
16	5-1/4"	+80.0 psf

FIG 1:

OH LENGTH

OH HEIGHT

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT IS EXEMPTED FROM WATER INFILTRATION RESISTANCE.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)	Date	11/17/21
Desc.	DP & ANCHOR QUANTITY TABLE	Drawn By	J ROSOWSKI
Rev.		Rev. Date	
Series	SGD-780	Scale	NTS
Sheet	7 OF 19	DWG No.	SGD780-FPA.1
Rev. No.	A		

PGT
 1070 TECHNOLOGY DR
 N. VENICE, FL 34275
 (941)-480-1600
 REGISTRATION #29296

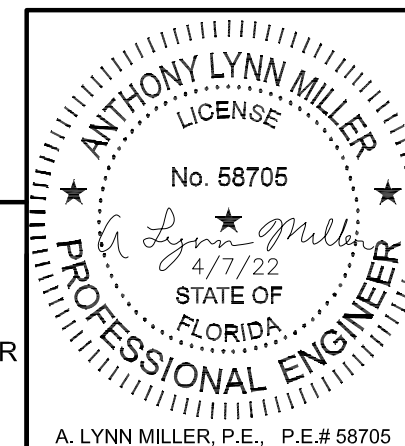


TABLE 3:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)

For corner astragal anchorage on 90° & 135° corner units, see sheets 15 & 16

Table applies to Glass Types 7, 8, 11 & 12 Reinforcement (part #29) is required in the Exterior Interlock			Door Unit Height																												
			80"				84"				96"				106"				120"				132"				144"				
			77-3/4" Panel Height**				81-3/4" Panel Height**				93-3/4" Panel Height**				105-3/4" Panel Height**				117-3/4" Panel Height**				129-3/4" Panel Height**				141-3/4" Panel Height**				
			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	
Nominal Panel Width	30"	22-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -109 psf				+98 / -98 psf				+89 / -89 psf			
			Head/Sill	C4+1	C4+1	C4+1	C4+1	C6+1	C6+1	C4+1	C4+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C6+1	C5+1	C6+1	C6+1	C6+1	C6+1	C6+1
			Jamb	10	8	6	6	10	8	8	8	10	10	8	8	12	12	8	8	14	12	10	10	14	12	10	10	14	12	12	12
	P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6		
	36"	28-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+101.6 / -111.2 psf				+77.9 / -85.3 psf			
			Head/Sill	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C8+2	C8+2	C6+2	C6+2	C8+2	C8+2	C6+2	C6+2	C8+2	C8+2	C3+2	C8+2	C8+1	C8+1	C8+1	C8+1
			Jamb	10	10	8	6	10	10	8	8	12	12	10	8	14	12	10	8	16	14	12	10	18	16	12	10	14	14	12	12
	P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	4+4	5+5	5+5	5+5	5+5	6+6	6+6	6+6	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6		
	42"	34-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+88 / -96.4 psf				+67.3 / -73.8 psf			
			Head/Sill	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C8+2	C8+2	C6+2	C6+2	C8+2	C8+2	C8+2	C8+2	C10+2	C10+2	C8+2	C8+2	C8+2	C8+2	C3+2	C8+2	C8+2	C8+2	C6+2	C6+2
			Jamb	12	10	8	6	12	10	8	8	14	12	10	8	16	14	12	10	18	16	12	10	18	16	12	10	14	14	12	12
	P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	5+5	4+4	6+6	6+6	6+6	5+5	7+7	7+7	6+6	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6		
48"	40-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+78 / -85.4 psf				+59.6 / -65.2 psf				
		Head/Sill	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3	C6+3	C8+3	C8+3	C8+3	C8+3	C10+3	C10+3	C8+3	C8+3	C10+3	C10+3	C10+3	C10+3	C8+2	C8+2	C3+2	C8+2	C8+2	C8+2	C6+2	C6+2	
		Jamb	12	10	8	8	12	12	10	8	16	14	10	8	18	16	12	10	20	18	14	12	16	16	12	10	14	12	12	12	
P-hook	4+4	4+4	4+4	4+4	5+5	5+5	5+5	4+4	6+6	6+6	5+5	4+4	6+6	6+6	6+6	5+5	7+7	7+7	7+7	5+5	6+6	6+6	6+6	6+6	6+6	6+6	6+6	6+6			
54"	46-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+94.8 / -103.8 psf				Not available in these sizes								
		Head/Sill	C6+3	C6+3	C6+3	C6+3	C8+3	C8+3	C6+3	C6+3	C8+3	C8+3	C8+3	C8+3	C10+3	C10+3	C8+3	C8+3	C10+3	C10+3	C10+3	C10+3									
		Jamb	12	12	10	8	14	12	10	8	16	14	12	10	18	16	14	10	20	18	14	12									
P-hook	5+5	5+5	5+5	4+4	5+5	5+5	5+5	4+4	6+6	6+6	6+6	4+4	7+7	7+7	7+7	5+5	7+7	7+7	7+7	5+5											
60"	52-1/8" DLO	Design Pressure	+105 / -115 psf				+105 / -115 psf				+105 / -115 psf				+103.4 / -107 psf				+86.7 / -95 psf												
		Head/Sill	C8+4	C8+4	C6+4	C6+4	C8+4	C8+4	C6+4	C6+4	C8+4	C8+4	C8+4	C8+4	C10+4	C10+4	C10+4	C10+4	C10+3	C10+3	C10+3	C10+3									
		Jamb	14	12	10	8	14	12	10	8	18	16	12	10	20	18	14	12	20	18	14	12									
P-hook	5+5	5+5	5+5	4+4	5+5	5+5	5+5	4+4	6+6	6+6	6+6	4+4	7+7	7+7	7+7	5+5	7+7	7+7	7+7	5+5											

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE C2, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C6+1, 6 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS THROUGH THE P-HOOK INSTALLED FROM THE INTERIOR + THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.

**SEE FORMULAS BELOW

 USED IN EXAMPLE 1, SHEET 10

TABLE NOTES:

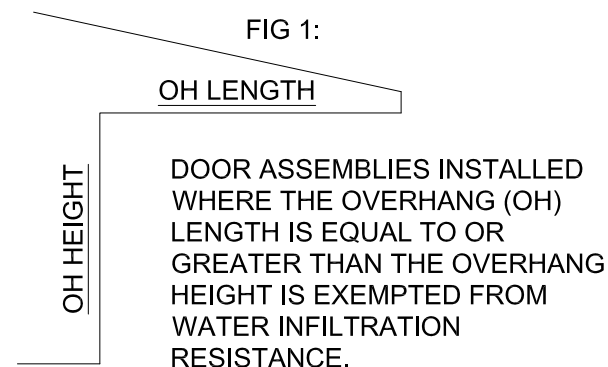
- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUE OF TABLE 3 AND TABLE C2 DETERMINES THE WATER LIMITED (+) DP.
- 2) THE 1-5/8" SILL RISER, #12, MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLE 3 MAY BE USED.
- 3) SEE SILL RISER TYPES ON SHEET 4.
- 4) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 5) REFER TO ANCHOR NOTES, SHEET 1.
- 6) SEE SHEETS 13-16 FOR ANCHOR LOCATIONS & SPACING.

DLO WIDTH = NOM. PANEL WIDTH - 7.875"
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

TABLE C2:

Water-Limited (+) Design Pressure		
Sill Riser	Total Sill Height	Max. (+) DP Allowed
12	1-5/8"	See Note 2
13	2-3/4"	+50.0 psf
14	3-1/2"	+73.3 psf
15	4-1/2"	+100.0 psf
16	5-1/4"	+105.0 psf

FIG 1:



Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	DP & ANCHOR QUANTITY TABLE		Drawn By	J ROSOWSKI
Rev.			Rev. Date	
Series	SGD-780	Scale	NTS	Sheet 8 OF 19
		DWG No.	SGD780-FPA.1	Rev. No. A

RGT
 1070 TECHNOLOGY DR
 N. VENICE, FL 34275
 (941)-480-1600
 REGISTRATION #29296

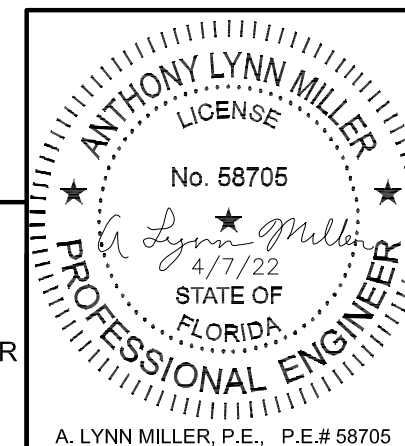


TABLE 4:

Design Pressure (DP) and Anchor Quantities Required, (for all approved configurations on Sheet 2)																			
For corner astragal anchorage on 90° & 135° corner units, see sheets 15 & 16																			
Table applies to Glass Types 13-20. Reinforcement (part #29) is not required in the Exterior Interlock																			
Door Unit Height																			
80"				84"				96"				108"				120"			
77-3/4" Panel Height**				81-3/4" Panel Height**				93-3/4" Panel Height**				105-3/4" Panel Height**				117-3/4" Panel Height**			
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
Nominal Panel Width	36"	28-1/8" DLO	Design Pressure	Not Available with these Glass Options.															
			Head/Sill	+60 / -60 psf															
			Jamb	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
			P-hook	8	8	8	8	10	10	10	10	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
	42"	34-1/8" DLO	Design Pressure	Not Available with these Glass Options.															
			Head/Sill	+60 / -60 psf															
			Jamb	C4+1	C4+1	C4+1	C4+1	C6+1	C6+1	C4+1	C4+1	C6+1	C6+1	C4+1	C4+1	C6+1	C6+1	C4+1	C4+1
			P-hook	8	8	8	8	10	10	10	10	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
	48"	40-1/8" DLO	Design Pressure	Not Available with these Glass Options.															
			Head/Sill	+60 / -60 psf															
			Jamb	C6+2	C6+2	C4+2	C4+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2	C6+2
			P-hook	10	8	8	8	10	10	10	10	5+5	5+5	5+5	5+5	5+5	5+5	5+5	5+5
54"	46-1/8" DLO	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				Not available in these sizes				
		Head/Sill	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	C4+2	C4+2	
		Jamb	8	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	
60"	52-1/8" DLO	Design Pressure	+60 / -60 psf				+60 / -60 psf				+60 / -60 psf				Not available in these sizes				
		Head/Sill	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C4+2	C6+2	C6+2	C4+2	C4+2	C6+2	C6+2	C4+2	C4+2	
		Jamb	8	6	6	6	8	8	8	8	10	8	8	8	8	8	8	8	
		P-hook	4+4	4+4	4+4	4+4	4+4	4+4	4+4	4+4	5+5	5+5	4+4	4+4	5+5	5+5	4+4	4+4	

ANCHORAGE TYPE PER SUBSTRATE REQUIRED TO ACHIEVE THE DESIGN PRESSURE, USING THE ANCHOR QUANTITIES LISTED BELOW. SEE TABLE A, SHEET 1 FOR COMPLETE ANCHOR LIMITATIONS.

THE MAXIMUM DP AT THESE ANCHOR QUANTITIES. ADDITIONALLY, THE MAXIMUM POSITIVE DP DUE TO THE SILL HEIGHT MUST ALSO BE CONSIDERED, SEE TABLE C3, THIS SHEET.

TOTAL # OF ANCHORS CLUSTERED THROUGH THE HEAD & SILL AT EACH PANEL MEETING POINT. (EX: FOR C4+1, 4 ANCHORS REQUIRED AT PANEL MEETING POINT AND 1 ANCHOR REQUIRED AT MIDSPAN OF PANEL).

TOTAL # OF ANCHORS THROUGH THE JAMB.

THE # OF ANCHORS THROUGH THE P-HOOK INSTALLED FROM THE INTERIOR + THE # OF ANCHORS INSTALLED FROM THE EXTERIOR.

**SEE FORMULAS BELOW

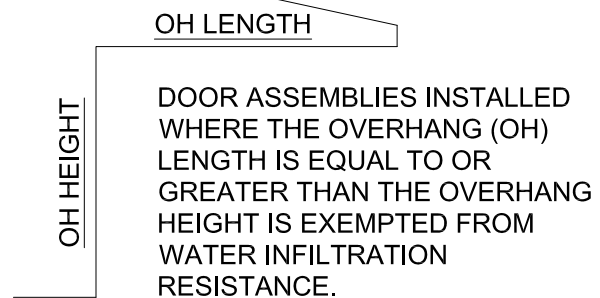
TABLE NOTES:

- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE LESSER VALUES OF EITHER TABLE 4 AND TABLE C3 DETERMINES THE WATER LIMITED (+) DP.
- 2) THE 1-5/8" SILL RISER, #12, MAY ONLY BE USED WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIG 1. IF SO, +DP'S SHOWN IN TABLE 4 MAY BE USED.
- 3) SEE SILL RISER TYPES ON SHEET 4.
- 4) DETAILS APPLY TO 2, 3 AND 4 TRACK CONFIGURATIONS.
- 5) REFER TO ANCHOR NOTES, SHEET 1.
- 6) SEE SHEETS 13-16 FOR ANCHOR LOCATIONS & SPACING.

TABLE C3:

Water-Limited (+) Design Pressure		
Sill Riser	Total Sill Height	Max. (+) DP Allowed
12	1-5/8"	See Note 2
13	2-3/4"	+50.0 psf
14	3-1/2"	+60.0 psf
15	4-1/2"	+60.0 psf
16	5-1/4"	+60.0 psf

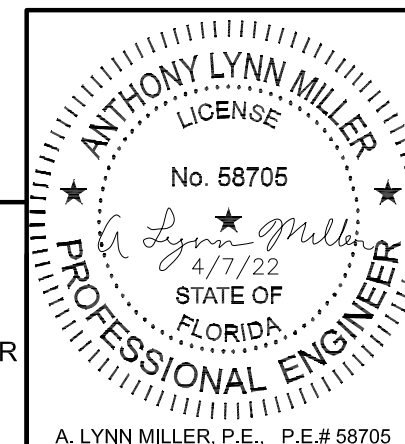
FIG 1:



DLO WIDTH = NOM. PANEL WIDTH - 7.875"
 DLO HEIGHT (STD. BOT. RAIL, #22) = DOOR UNIT HEIGHT - 13.47"
 DLO HEIGHT (TALL BOT. RAIL, #23) = DOOR UNIT HEIGHT - 17.29"
 PANEL HEIGHT = DOOR UNIT HEIGHT - 2.25"

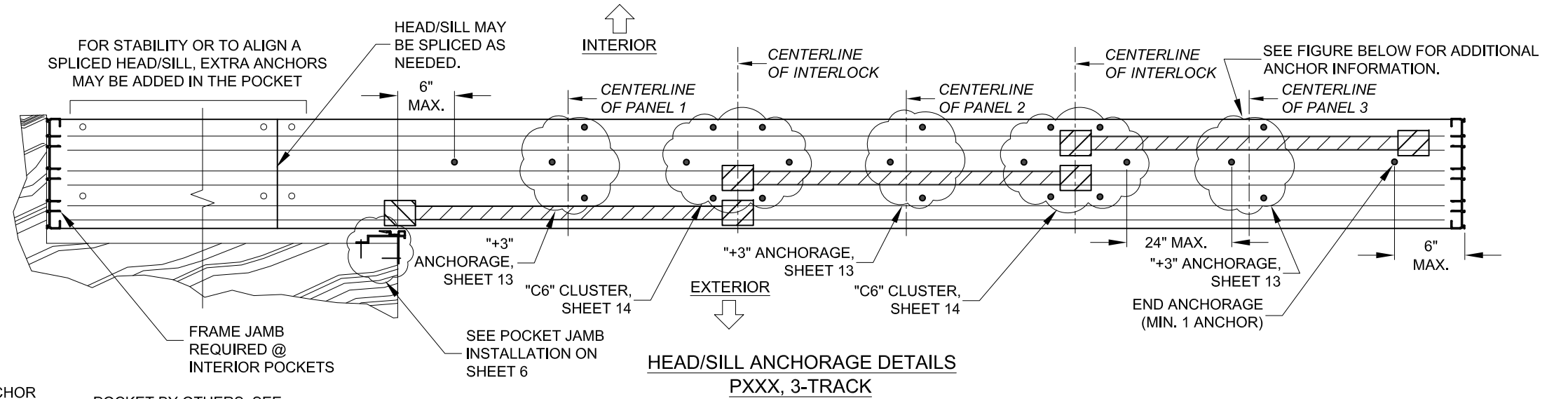
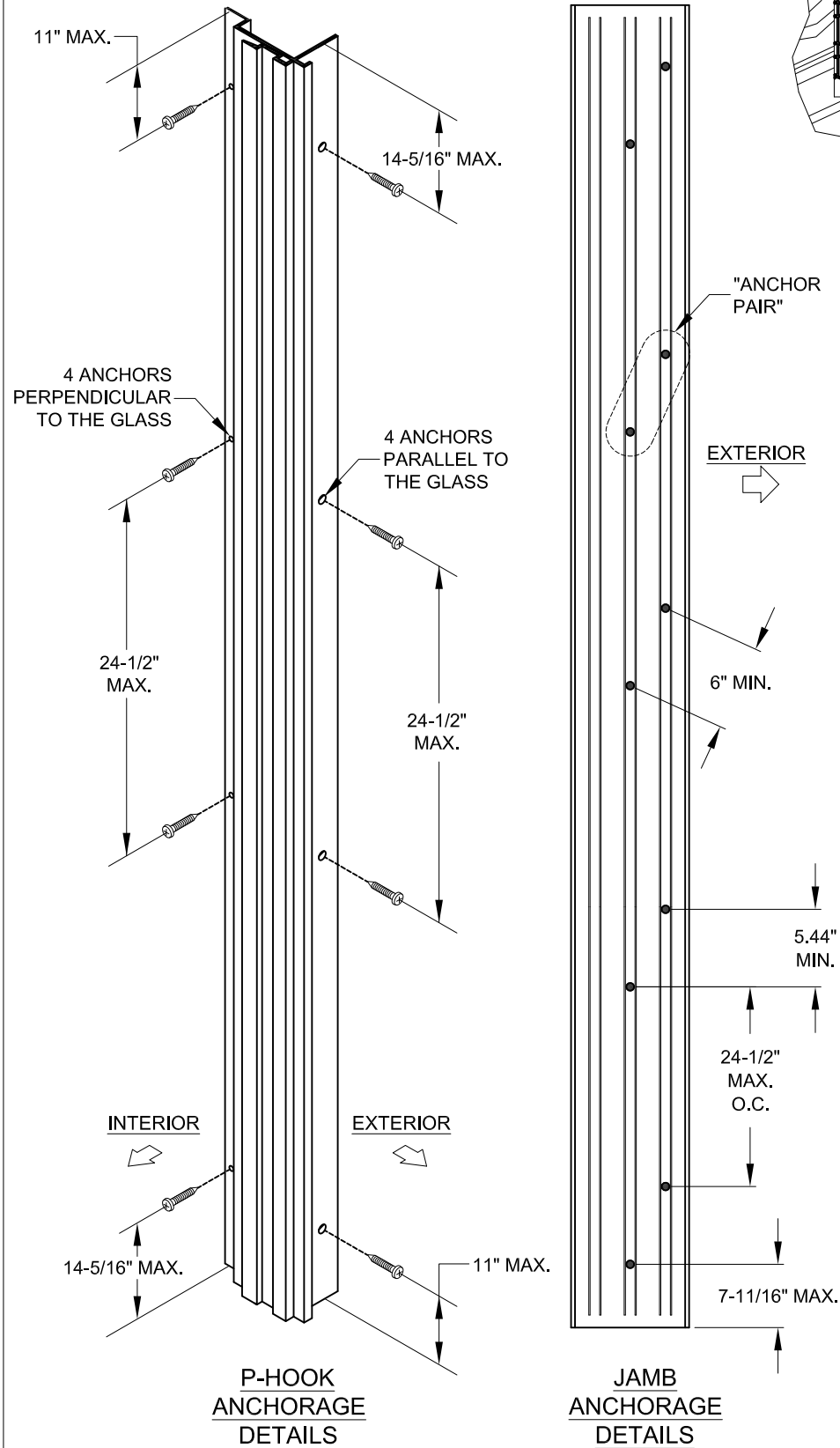
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	DP & ANCHOR QUANTITY TABLE		Drawn By	J ROSOWSKI
Rev.	ADDED GLASS TYPES 17 - 20.		Rev. Date	4/7/22
Series	SGD-780	Scale	NTS	Sheet 9 OF 19
		DWG No.	SGD780-FPA.1	Rev. No. A

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EXAMPLE 1:

3-PANEL, 3 TRACK, STRAIGHT CONFIGURATION - PXXX,
 INTERIOR MOUNT POCKET,
 48" X 80" NOM. PANELS, LAMINATED, IG GLAZING,
 ANCHOR GROUP B IN WOOD SUBSTRATE,
 PROJECT DESIGN PRESSURE REQUIRED: +98.2/-108.6 PSF



USER INSTRUCTIONS:

1) KNOWING THE PRODUCT'S REQUIREMENTS, SCAN THROUGH TABLES 1-4 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +98.2/-108.6 AT A NOM. PANEL SIZE OF 48" X 80". FROM TABLE 3, SHEET 8, THE DESIGN PRESSURE IS +105/-115 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR WOOD INSTALLATION USING ANY ANCHOR IN GROUP B (SEE TABLE A), TABLE 3 SHOWS ANCHOR REQUIREMENTS OF:

Head/Sill	C6+3
Jamb	10
P-hook	4+4

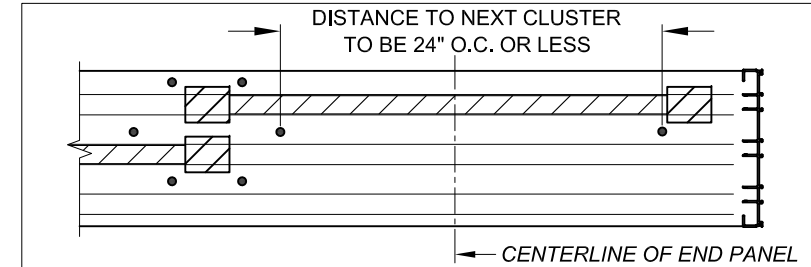
2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON:
 HEAD/SILL: SHEET 14 FOR THE "C6" CLUSTER ANCHORS AT INTERLOCK, SHEET 13 FOR THE INTERMEDIATE "+3" ANCHORS LOCATED AT THE CENTERLINE OF ALL 3 PANELS.
 JAMB: 5 PAIRS OF ANCHORS = 10 TOTAL ANCHORS; REFER TO SHEET 13 FOR GENERAL LAYOUT.
 P-HOOK: 4 ANCHORS PERPENDICULAR TO GLASS AND 4 ANCHORS PARALLEL TO GLASS; REFER TO SHEET 16 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO WOOD CAN BE FOUND ON:
 HEAD/SILL & JAMB: SHEETS 3 & 4
 P-HOOK: SHEET 6

FOR PRODUCT REFERENCES, ALSO SEE:

- A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
- B) SHEET 12 FOR SPECIFIC GLAZING TYPES.
- C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
- D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
- E) SHEET 19 FOR A BILL OF MATERIALS.

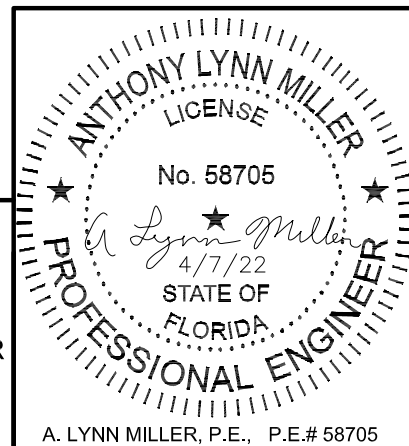
END PANEL ANCHOR EXCEPTION, ("+1" ANCHORAGE ONLY):



ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 24", OTHERWISE ANCHORS ARE NOT REQUIRED AT THE MIDSPAN AS PER THE FIGURE ABOVE:

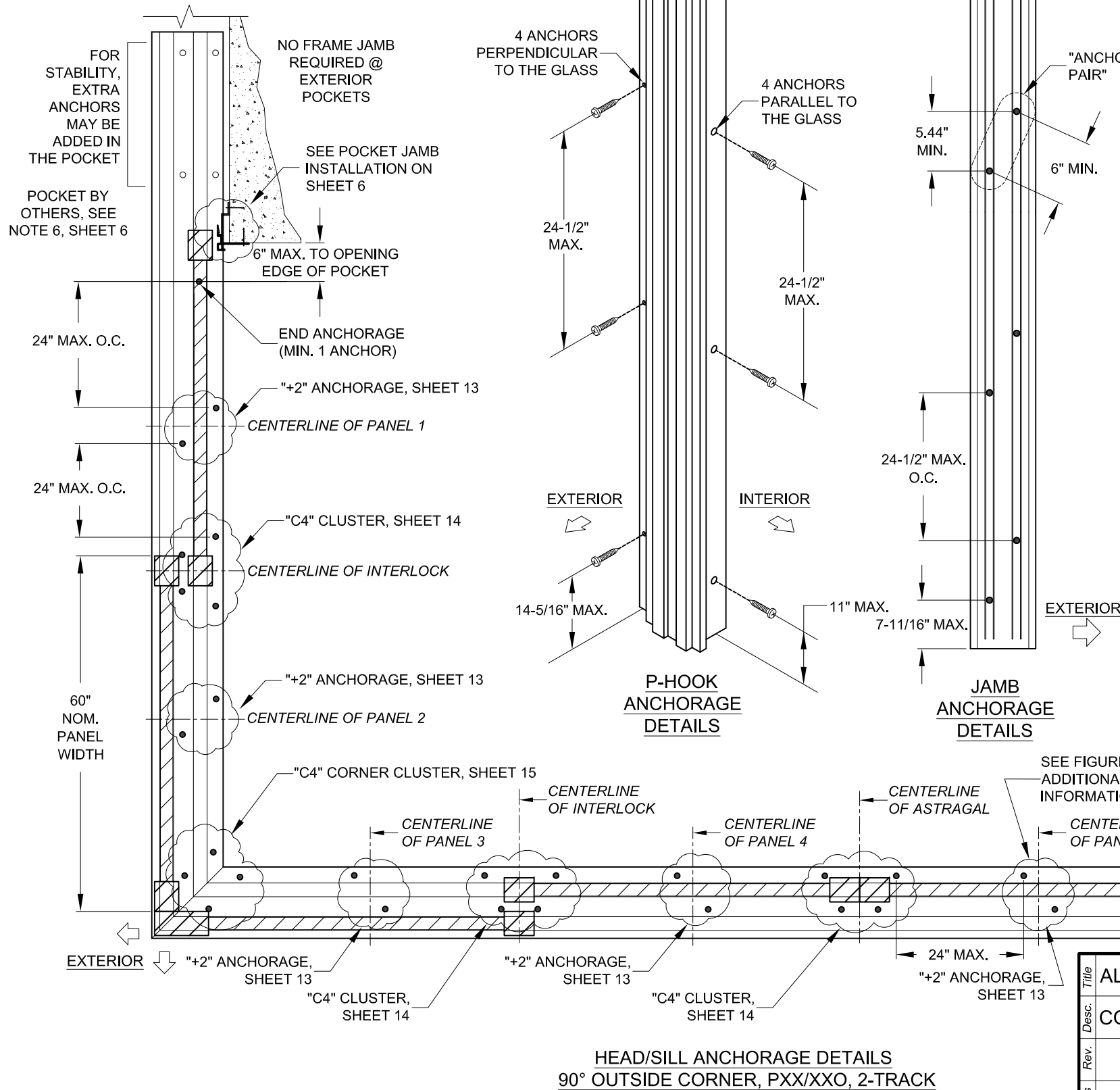
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	STRAIGHT DOOR EXAMPLE		Drawn By	J ROSOWSKI
Rev.			Rev. Date	
Series	SGD-780	Scale	NTS	Sheet 10 OF 19
		DWG No.	SGD780-FPA.1	Rev. No. A

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EXAMPLE 2:

5-PANEL, 2 TRACK,
90° OUTSIDE CORNER - PXX/XXO,
EXTERIOR MOUNT POCKET,
54" X 84" NOM. PANELS, LAMINATED GLAZING
ANCHOR GROUP C IN CONCRETE SUBSTRATE
PROJECT DESIGN PRESSURE REQUIRED: +68.4/-77.1 PSF



USER INSTRUCTIONS:

1) KNOWING THE PRODUCT REQUIREMENTS, SCAN THROUGH TABLES 1-4 FOR A DESIGN PRESSURE THAT MEETS OR EXCEEDS THE REQUIREMENT OF +68.4/-77.1 AT A NOM. PANEL SIZE OF 54" X 84". FROM TABLE 1, SHEET 7, THE DESIGN PRESSURE IS +80/-80 WHICH EXCEEDS THE PROJECT DESIGN PRESSURE REQUIREMENTS.

FOR CONCRETE INSTALLATION USING ANY ANCHOR IN GROUP C (SEE TABLE A), TABLE 1 SHOWS ANCHOR REQUIREMENTS OF:

Head/Sill	C4+2
Jamb	8
P-hook	4+4

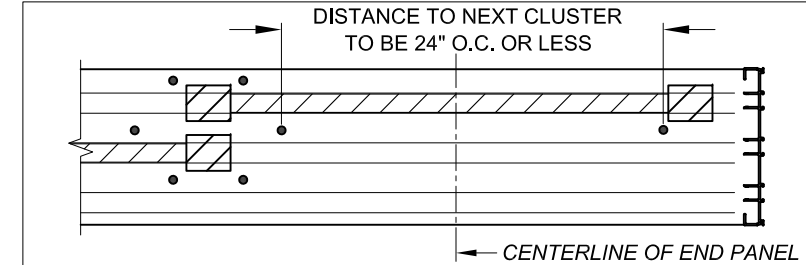
2) ANCHOR LOCATION DETAILS, (AS SHOWN ON THIS SHEET) CAN BE FOUND ON:
HEAD/SILL: SHEET 14 FOR THE "C4" CLUSTER ANCHORS LOCATED AT THE ASTRAGAL AND INTERLOCKS, SHEET 13 FOR THE INTERMEDIATE "+2 ANCHORS."
HEAD/SILL @ CORNER: SHEET 15 FOR THE "C4" CLUSTER ANCHORS @ THE 90° CORNER.
JAMB: 4 PAIRS OF ANCHORS = 8 TOTAL ANCHORS; REFER TO SHEET 13 FOR GENERAL LAYOUT.
P-HOOK: 4 ANCHORS PERPENDICULAR TO GLASS AND 4 ANCHORS PARALLEL TO GLASS; REFER TO SHEET 16 FOR GENERAL LAYOUT.

3) INSTALLATION DETAILS INTO CONCRETE CAN BE FOUND ON:
HEAD/SILL & JAMB: SHEETS 3 & 4
P-HOOK: SHEET 6

FOR PRODUCT REFERENCES, ALSO SEE:

- A) SHEET 2 FOR ALLOWABLE CONFIGURATIONS AND EXACT LOCATIONS OF CROSS-SECTION DRAWINGS.
- B) SHEET 12 FOR SPECIFIC GLAZING TYPE.
- C) SHEET 17 FOR ALLOWABLE PANEL TYPES AND CALL NAMES.
- D) SHEETS 4 & 18 FOR EXTRUSION CROSS-SECTION DRAWINGS.
- E) SHEET 19 FOR A BILL OF MATERIALS.

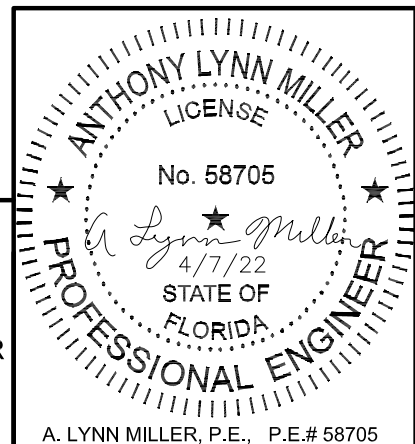
END PANEL ANCHOR EXCEPTION, ("+1" ANCHORAGE ONLY):

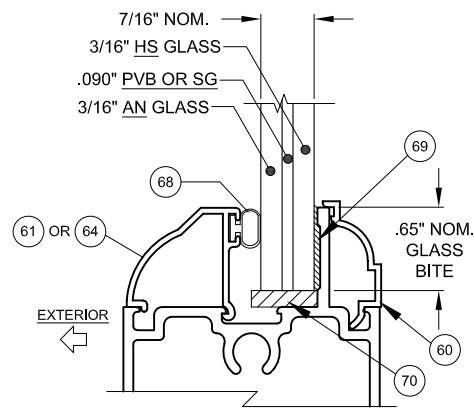


ANCHORS AT THE MIDPOINT OF END PANELS ARE ONLY REQUIRED IF THE O.C. DISTANCE TO THE NEXT ANCHOR CLUSTER IS OVER 24", OTHERWISE ANCHORS ARE NOT REQUIRED AT THE MIDSPAN AS PER THE FIGURE ABOVE:

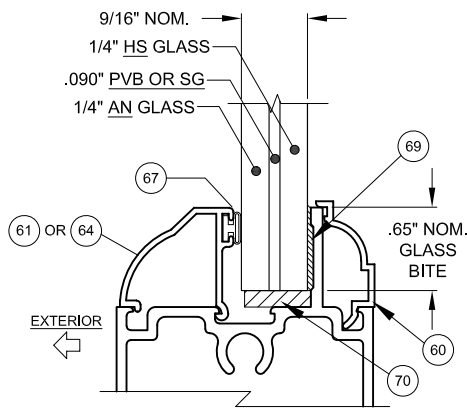
Series	SGD-780	Scale	NTS	Sheet	11 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)				Date	11/17/21			
Desc.	CORNER DOOR EXAMPLE				Drawn By	J ROSOWSKI			
Rev.					Rev. Date				

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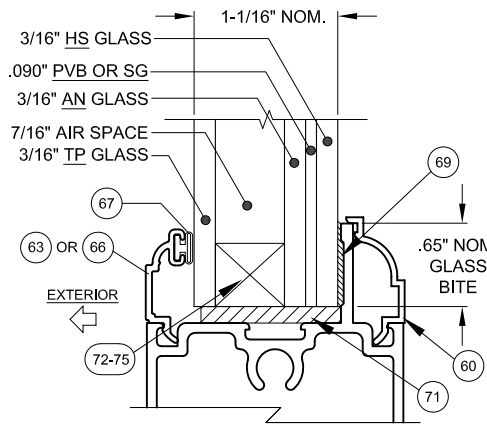




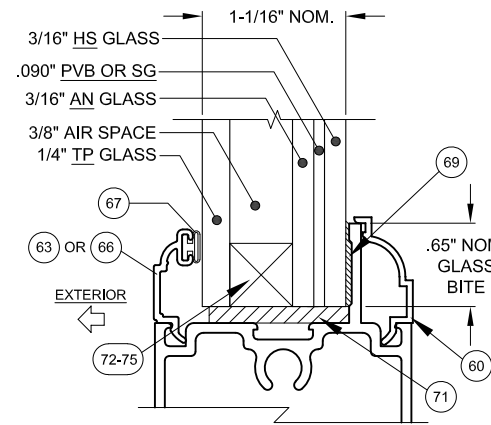
GLASS TYPE 1 (WITH PVB)
GLASS TYPE 5 (WITH SG)



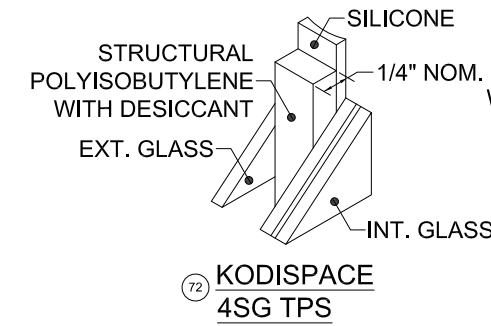
GLASS TYPE 2 (WITH PVB)
GLASS TYPE 6 (WITH SG)



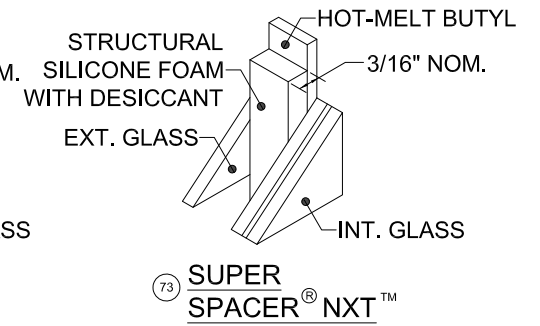
GLASS TYPE 3 (WITH PVB)
GLASS TYPE 9 (WITH SG)



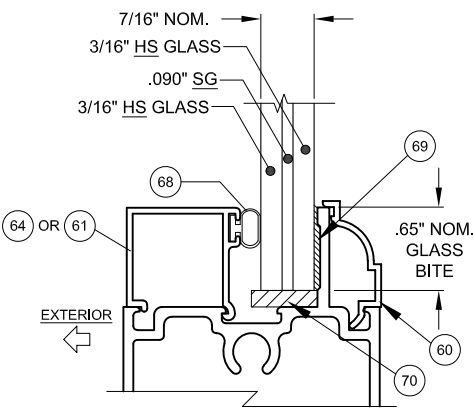
GLASS TYPE 4 (WITH PVB)
GLASS TYPE 10 (WITH SG)



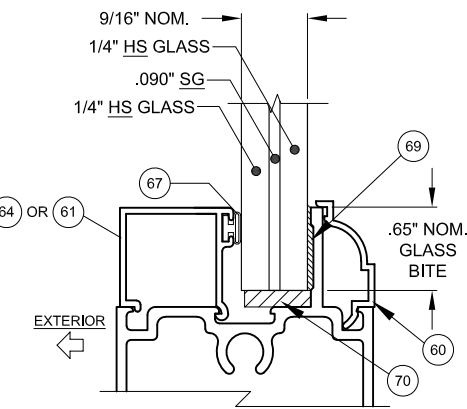
72 KODISPACE 4SG TPS



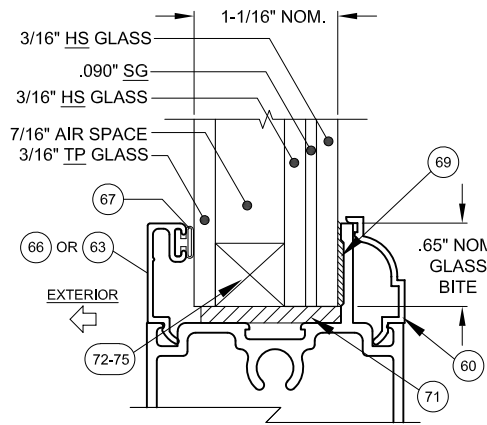
73 SUPER SPACER[®] NXT[™]



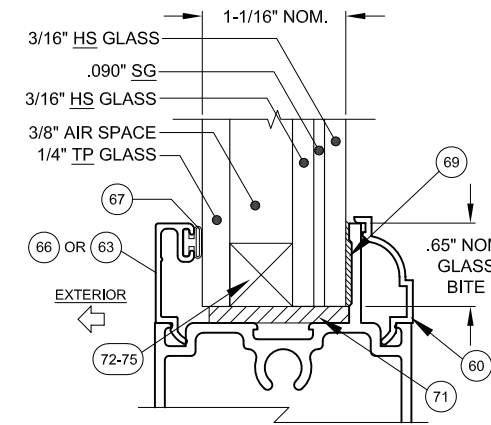
GLASS TYPE 7



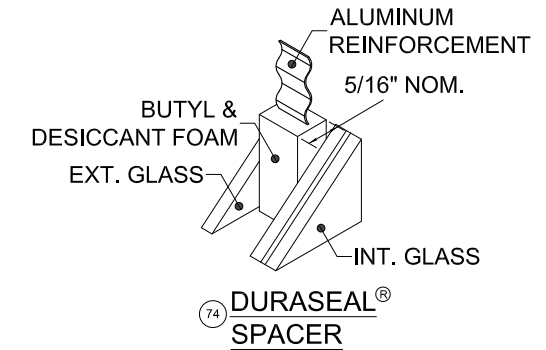
GLASS TYPE 8



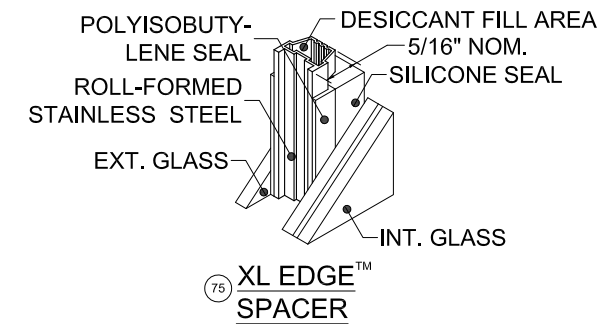
GLASS TYPE 11



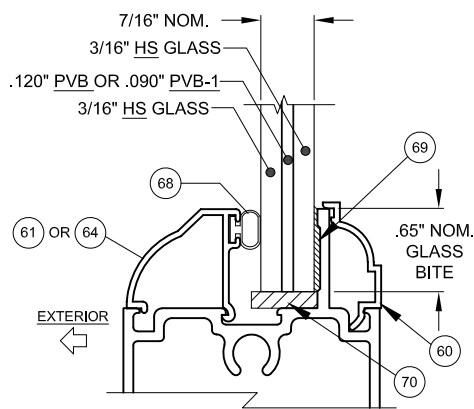
GLASS TYPE 12



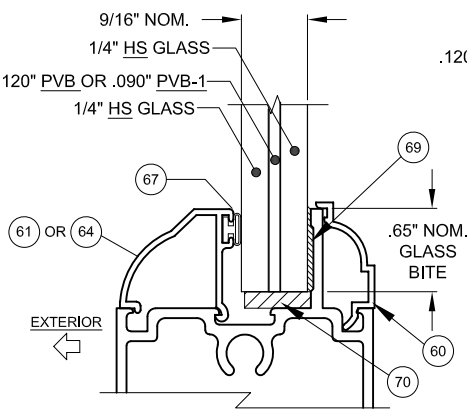
74 DURASEAL[®] SPACER



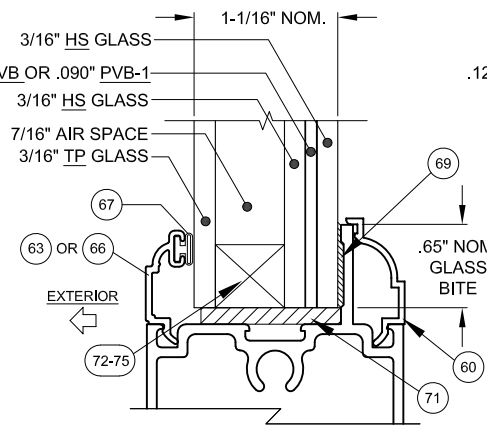
75 XL EDGE[™] SPACER



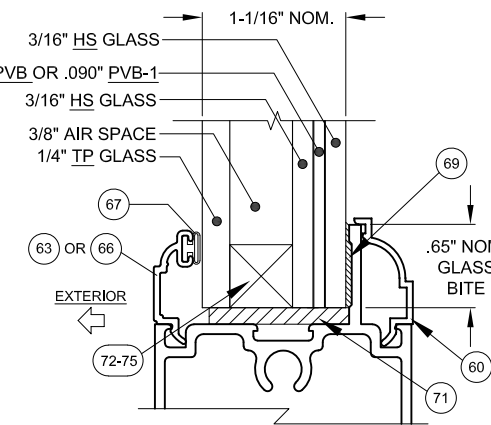
GLASS TYPE 13 (WITH PVB)
GLASS TYPE 17 (WITH PVB-1)



GLASS TYPE 14 (WITH PVB)
GLASS TYPE 18 (WITH PVB-1)



GLASS TYPE 15 (WITH PVB)
GLASS TYPE 19 (WITH PVB-1)



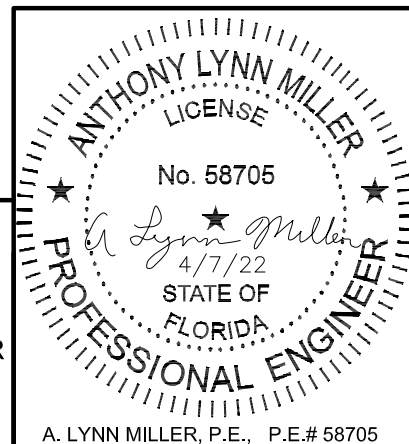
GLASS TYPE 16 (WITH PVB)
GLASS TYPE 20 (WITH PVB-1)

Part #	Description	Material
72	Kommerling 4SG TPS Spacer System	
73	Quanex Super Spacer nXT with Hot Melt Butyl	See this Sheet for Materials
74	Quanex Duraseal Spacer	
75	Cardinal XL Edge Spacer	

"AN" = ANNEALED
 "HS" = HEAT STRENGTHENED
 "TP" = TEMPERED
 "PVB" = TROSIFOL[®] PVB INTERLAYER BY KURARAY AMERICA, INC.
 "PVB-1" = MODIFIED TROSIFOL[®] PVB INTERLAYER BY KURARAY AMERICA, INC.
 "SG" = SENTRYGLAS[®] INTERLAYER BY KURARAY AMERICA, INC.

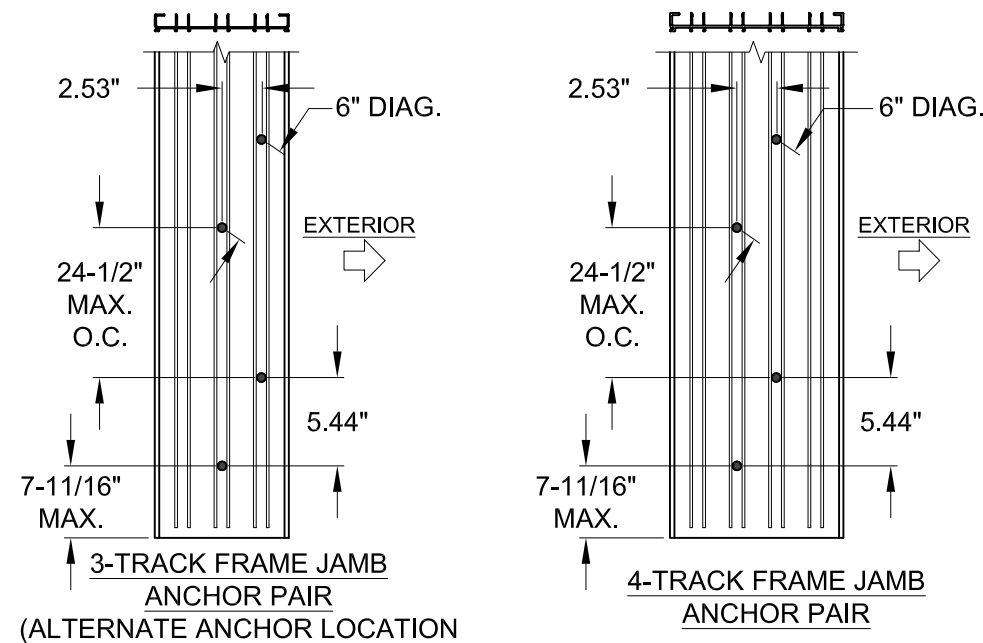
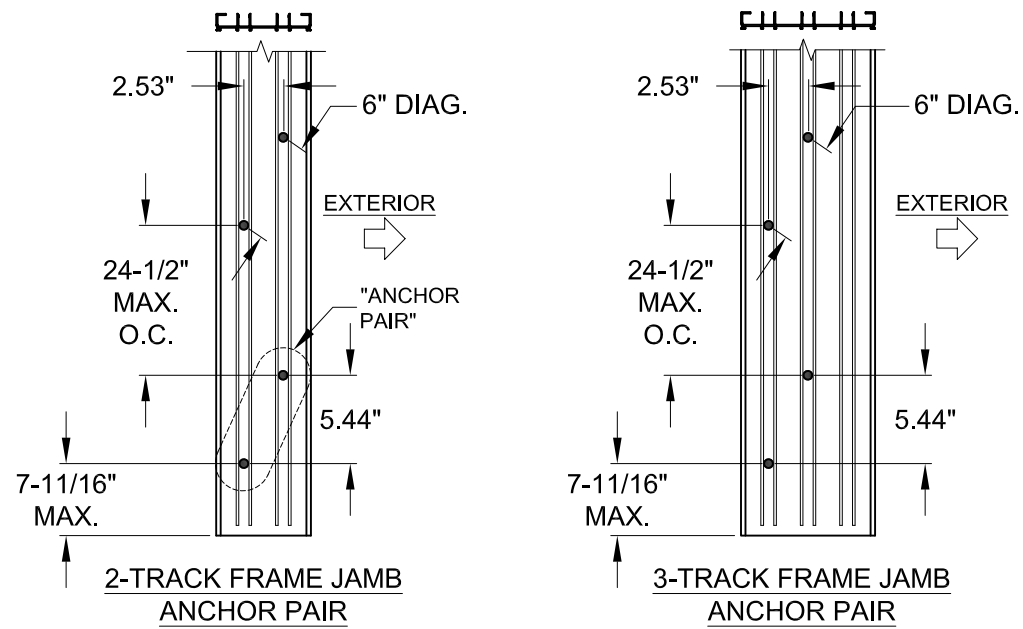
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)	Date	11/17/21
Desc.	GLAZING & SPACER DETAILS	Drawn By	J ROSOWSKI
Rev.	ADDED GLASS TYPES 17 - 20.	Rev. Date	4/7/22
Series	SGD-780	Scale	NTS
Sheet	12 OF 19	DWG No.	SGD780-FPA.1
Rev. No.	A		

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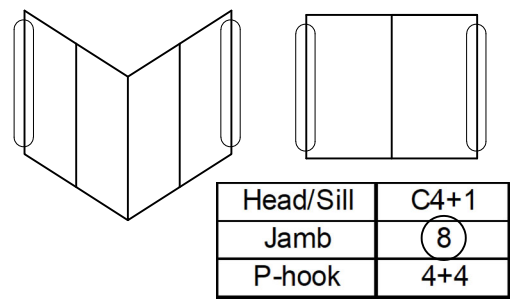


A. LYNN MILLER, P.E., P.E.# 58705

JAMB ANCHOR LAYOUT FOR ALL DOORS:



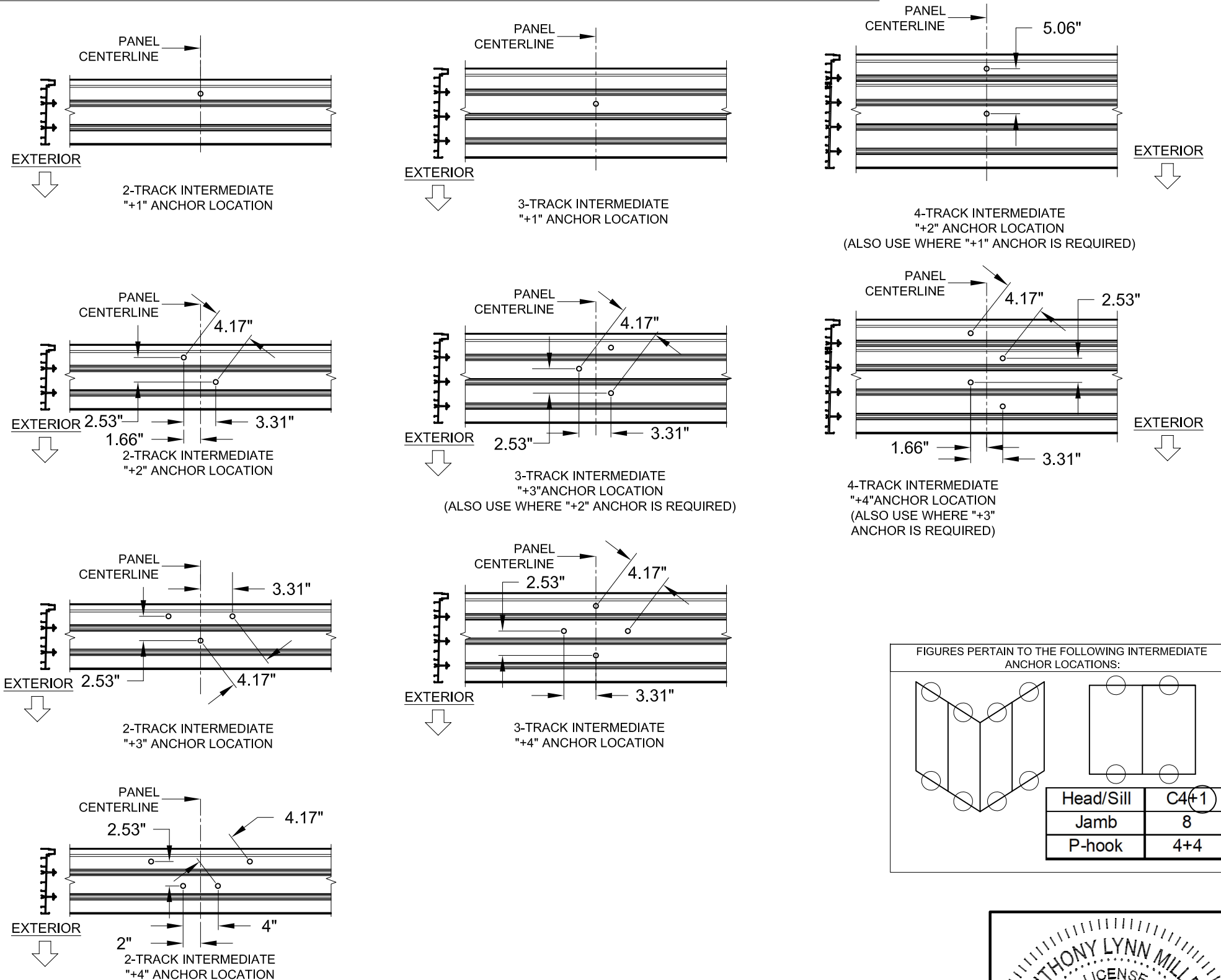
FIGURES PERTAINS TO THE FOLLOWING JAMB ANCHOR LOCATIONS:



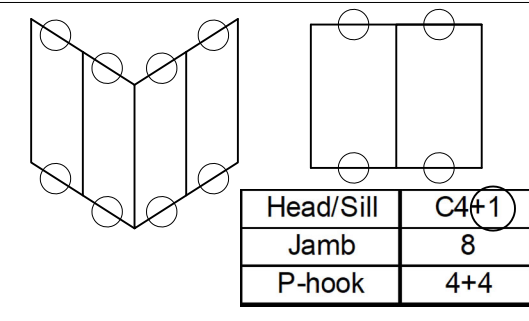
NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED, UNLESS OTHERWISE NOTED.
- 2) FOR 3-TRACK JAMBS, ANCHORS MAY BE INSTALLED EITHER IN THE EXT. OR INT. TRACK.
- 3) MIN. OF 8 ANCHORS IN JAMB (4 PAIRS).

HEAD/SILL "+" INTERMEDIATE ANCHORS LAYOUT FOR ALL DOORS:



FIGURES PERTAIN TO THE FOLLOWING INTERMEDIATE ANCHOR LOCATIONS:



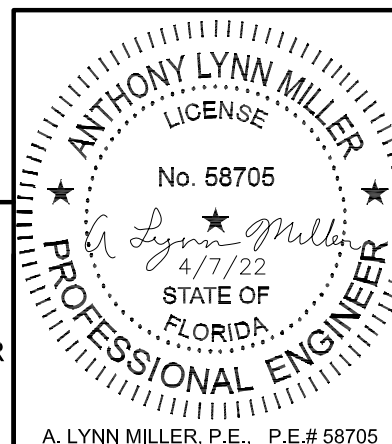
NOTES:

- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) SILL SHOWN, HEAD SIMILAR.

Series	SGD-780	Scale	NTS	Sheet	13 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI					

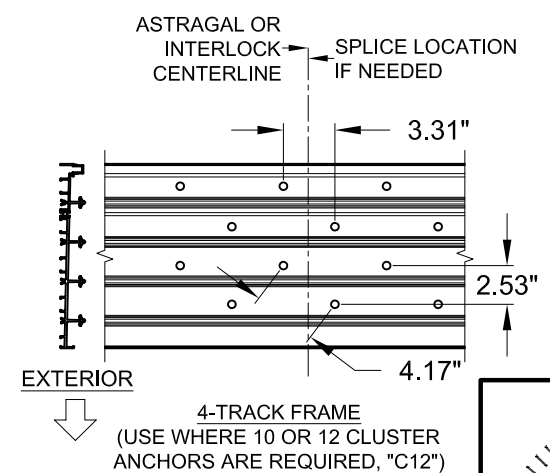
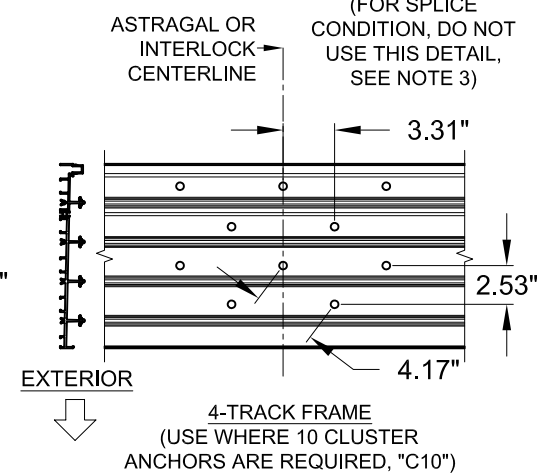
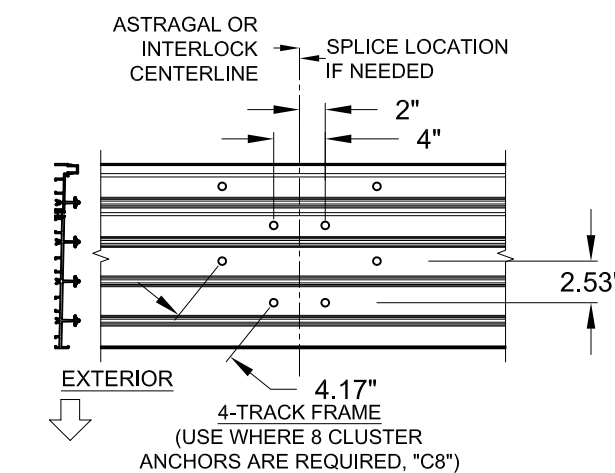
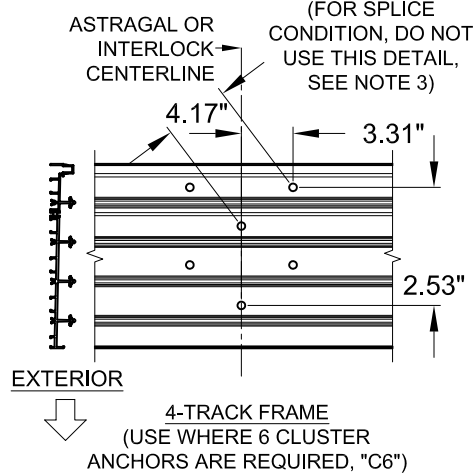
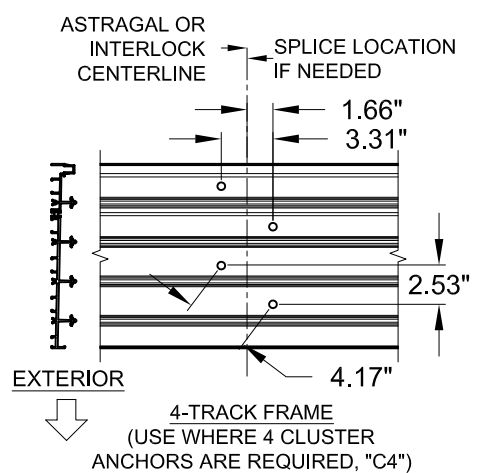
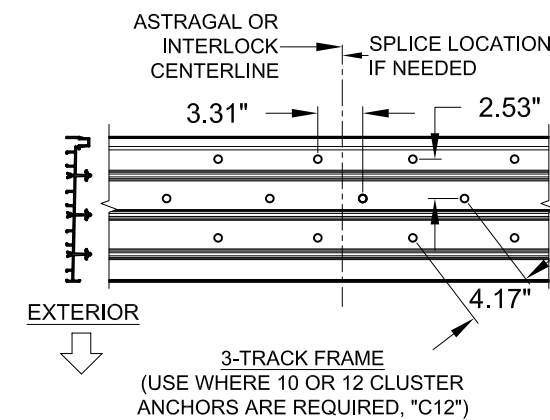
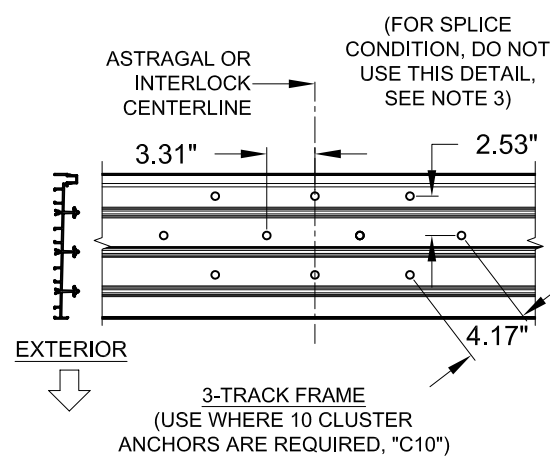
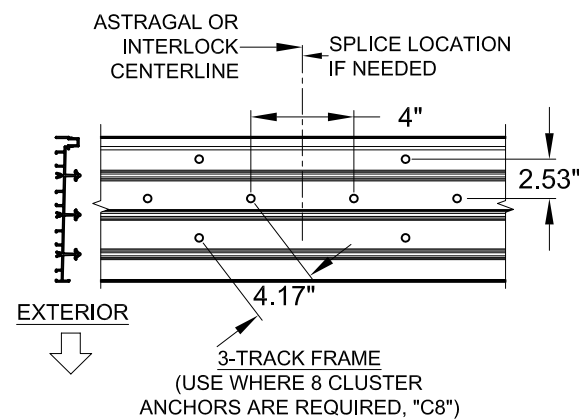
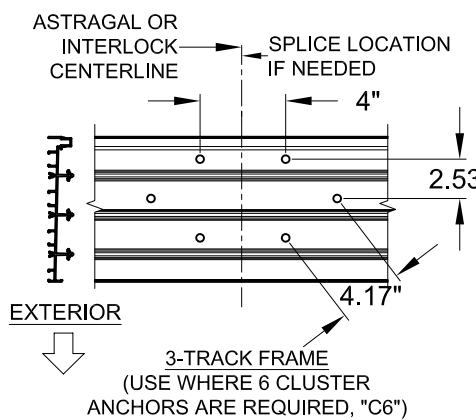
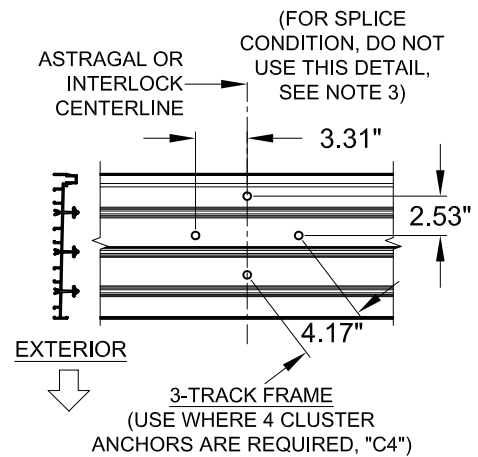
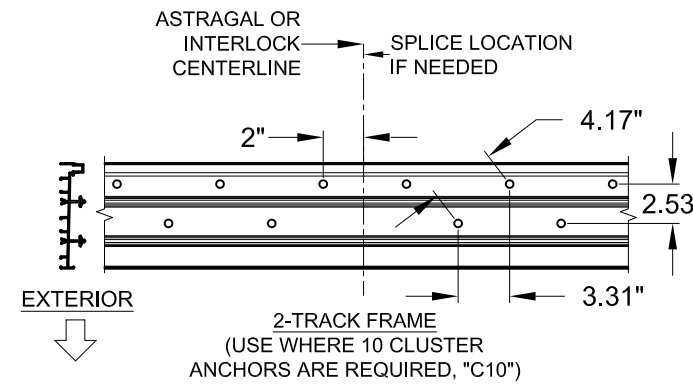
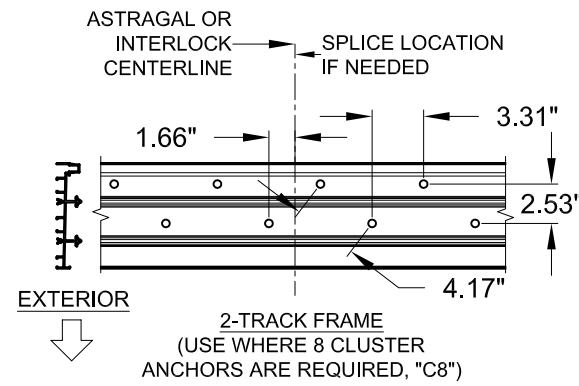
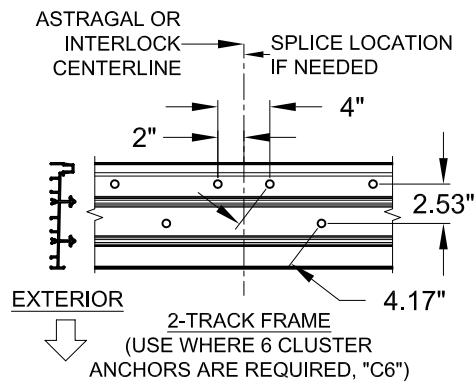
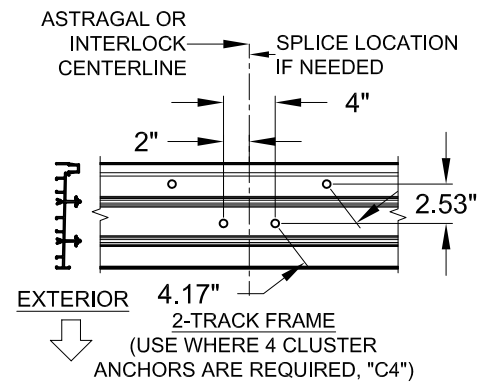
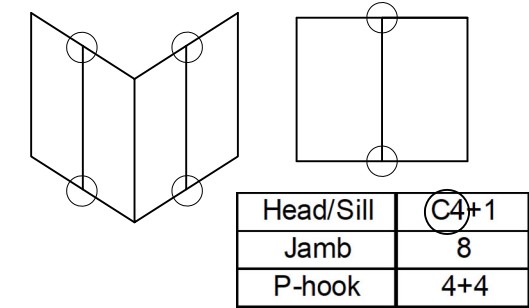
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HEAD/SILL CLUSTER ANCHORS LAYOUT FOR ALL DOORS:

FIGURES PERTAIN TO THE FOLLOWING INTERLOCK/ASTRAGAL ANCHOR LOCATIONS:

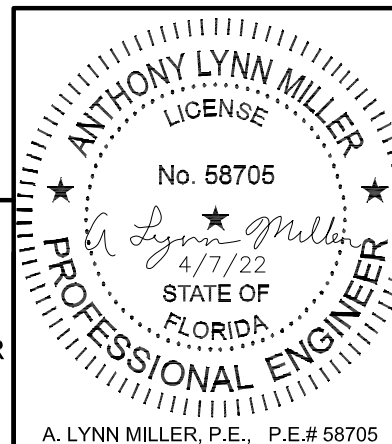


- NOTES:**
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 - 2) SILL SHOWN, HEAD SIMILAR.
 - 3) IF A SPLICE IS NOT SHOWN AT A GIVEN CLUSTER QUANTITY, USE THE NEXT HIGHER CLUSTER QUANTITY.

Series	SGD-780	Scale	NTS	Sheet	14 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)				Date	11/17/21			
Desc.	ANCHOR LAYOUT				Drawn By	J ROSOWSKI			
Rev.					Rev. Date				

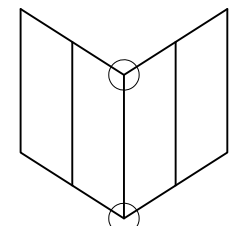
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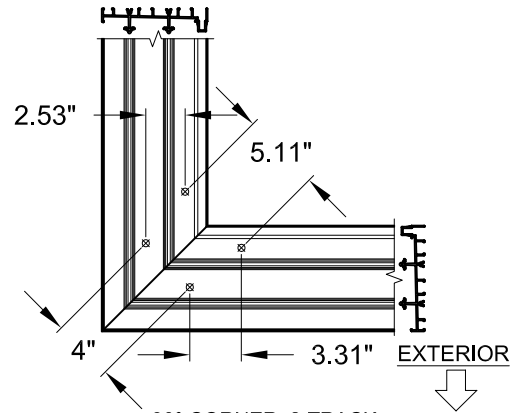


HEAD/SILL 90° CORNER CLUSTER ANCHORS LAYOUT:

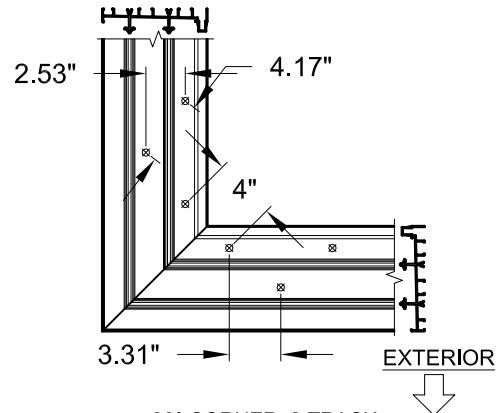
FIGURES PERTAIN TO THE FOLLOWING 90° CORNER ANCHOR LOCATIONS:



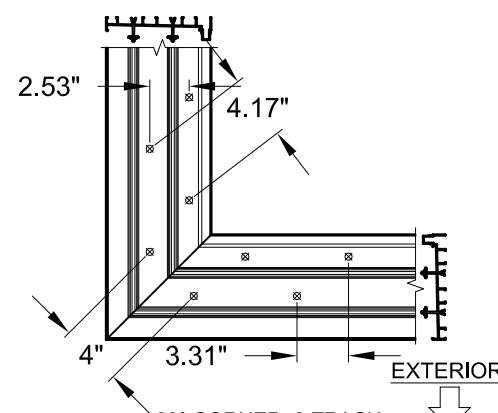
Head/Sill	(C4)+1
Jamb	8
P-hook	4+4



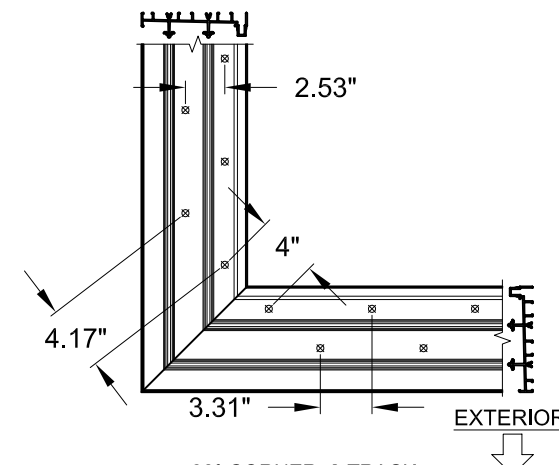
90° CORNER, 2-TRACK
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



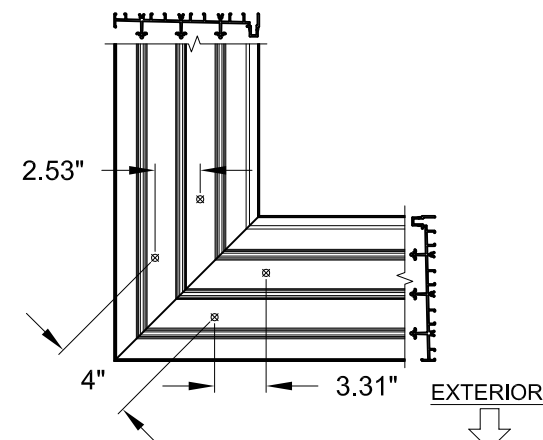
90° CORNER, 2-TRACK
(USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



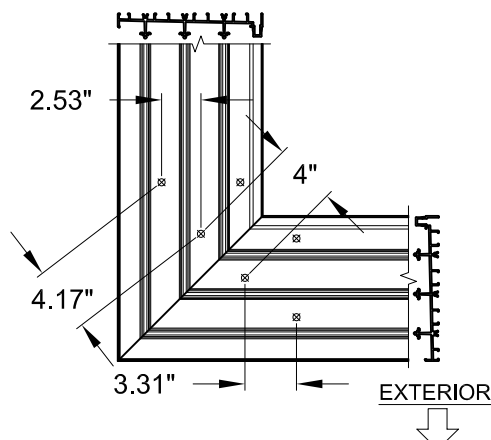
90° CORNER, 2-TRACK
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



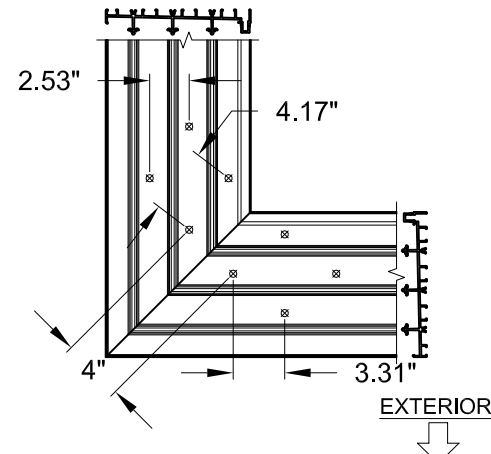
90° CORNER, 2-TRACK
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")



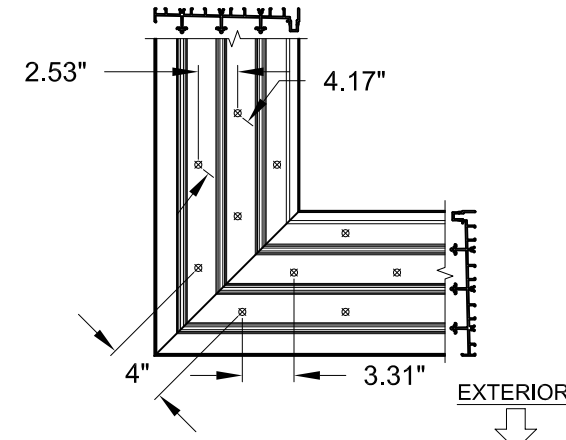
90° CORNER, 3-TRACK
(USE WHERE 4 CLUSTER ANCHORS ARE REQUIRED, "C4")



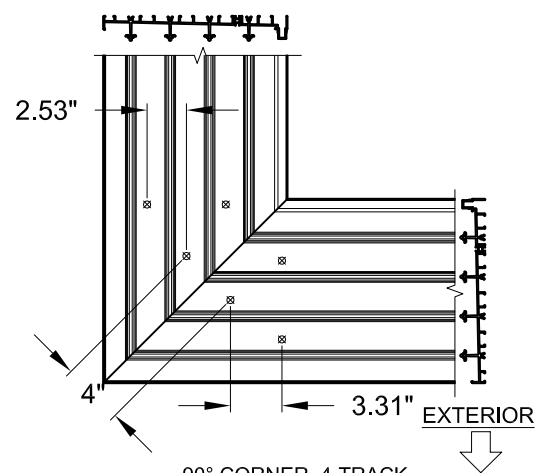
90° CORNER, 3-TRACK
(USE WHERE 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



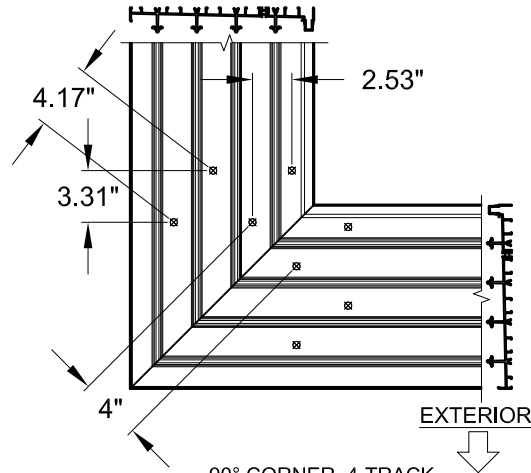
90° CORNER, 3-TRACK
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



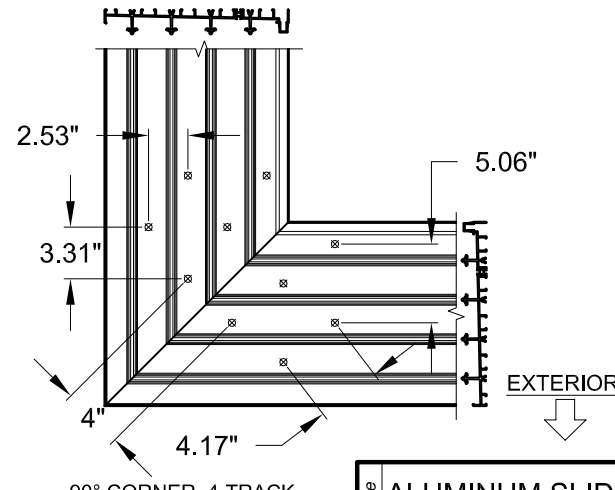
90° CORNER, 3-TRACK
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")



90° CORNER, 4-TRACK
(USE WHERE 4 OR 6 CLUSTER ANCHORS ARE REQUIRED, "C6")



90° CORNER, 4-TRACK
(USE WHERE 8 CLUSTER ANCHORS ARE REQUIRED, "C8")



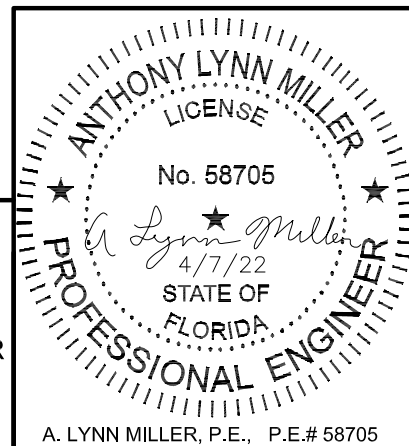
90° CORNER, 4-TRACK
(USE WHERE 10 CLUSTER ANCHORS ARE REQUIRED, "C10")

NOTES:

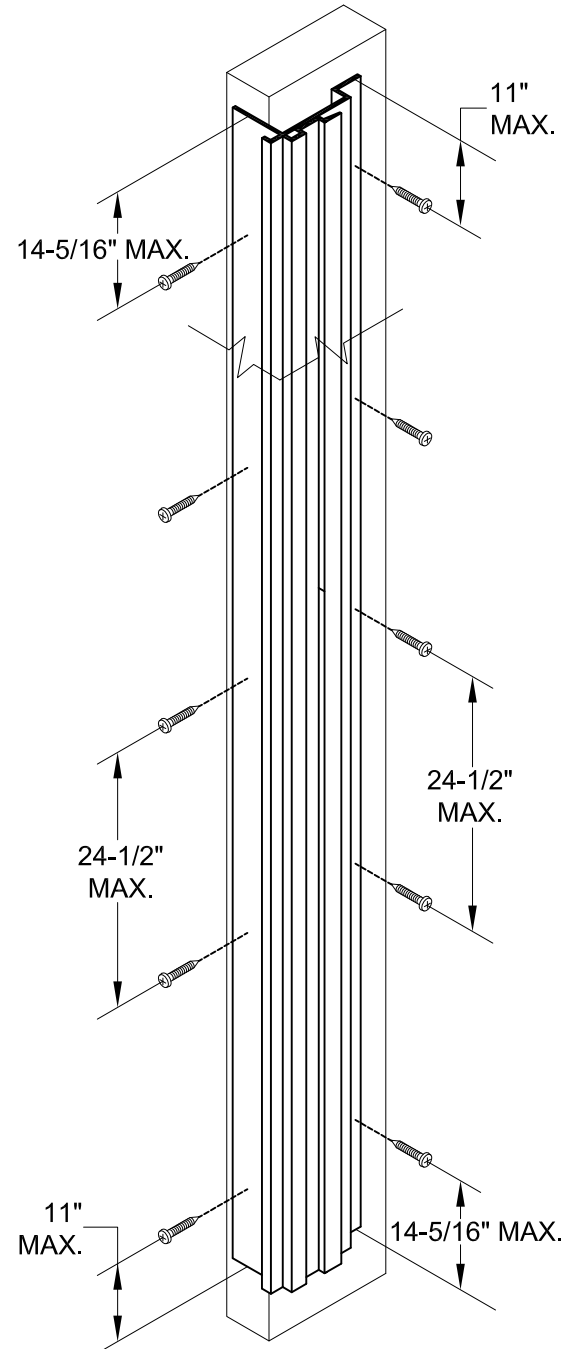
- 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
- 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.
- 3) SILL SHOWN, HEAD SIMILAR.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI
Rev.			Rev. Date	
Series	SGD-780	Scale	NTS	Sheet 15 OF 19
		DWG No.	SGD780-FPA.1	Rev. No. A

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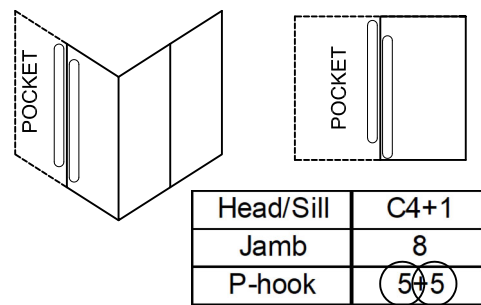


P-HOOK ANCHORS LAYOUT FOR ALL DOORS:

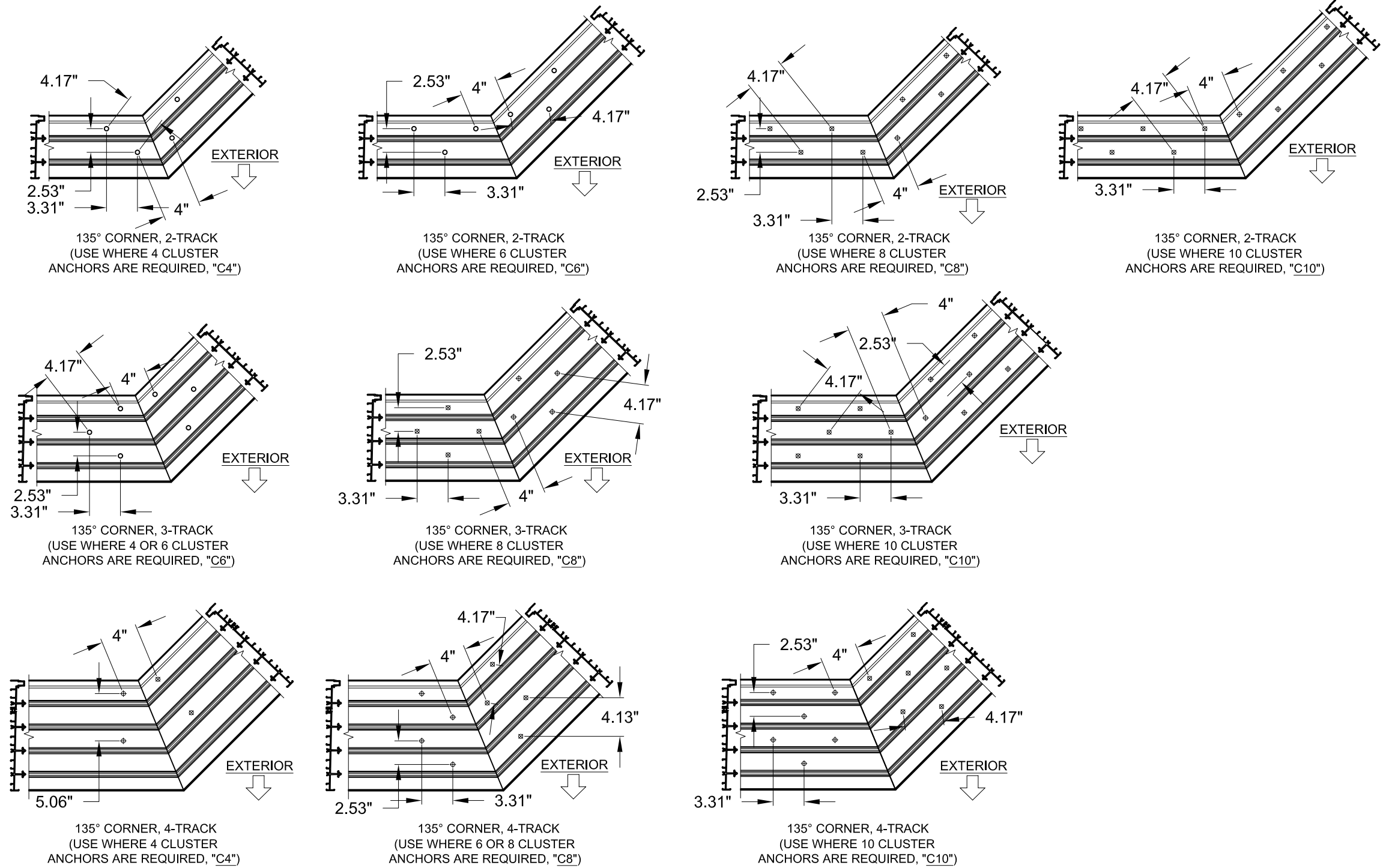


NOTES:
 1) SEE TABLES 1-4 FOR EXACT QUANTITY OF ANCHORS REQUIRED IN THE P-HOOK.

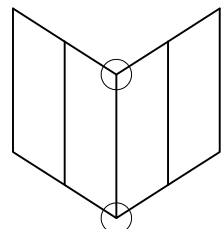
FIGURE PERTAINS TO THE FOLLOWING POCKET JAMB (P-HOOK) ANCHOR LOCATIONS:



HEAD/SILL 135° CORNER CLUSTER ANCHORS LAYOUT:



FIGURES PERTAIN TO THE FOLLOWING 135° CORNER ANCHOR LOCATIONS:

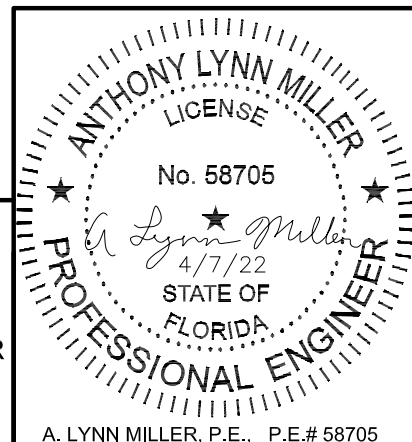


Head/Sill	C4+1
Jamb	8
P-hook	4+4

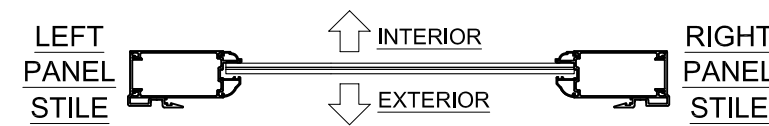
NOTES:
 1) ALL DIMENSIONS SHOWN ARE BASED ON MINIMUM ALLOWED.
 2) DETAILS DEPICT ANCHOR QUANTITY AND SPACING, AND WOULD BE SIMILAR FOR INSIDE AND OUTSIDE CORNER CONFIGURATIONS.
 3) SILL SHOWN, HEAD SIMILAR.

Series	SGD-780	Scale	NTS	Sheet	16 OF 19	DWG No.	SGD780-FPA.1	Rev. No.	A
Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
Desc.	ANCHOR LAYOUT		Drawn By	J ROSOWSKI					

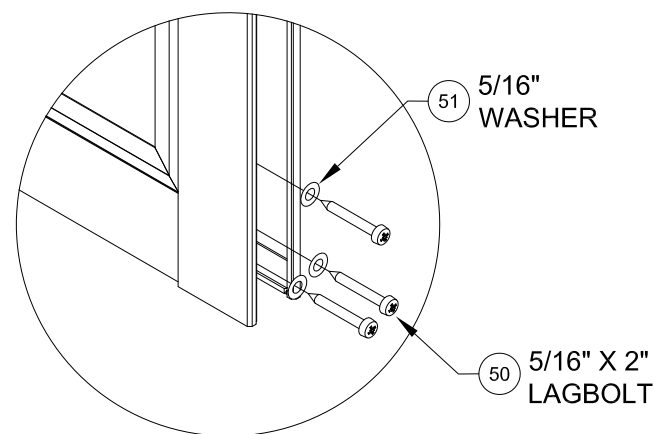
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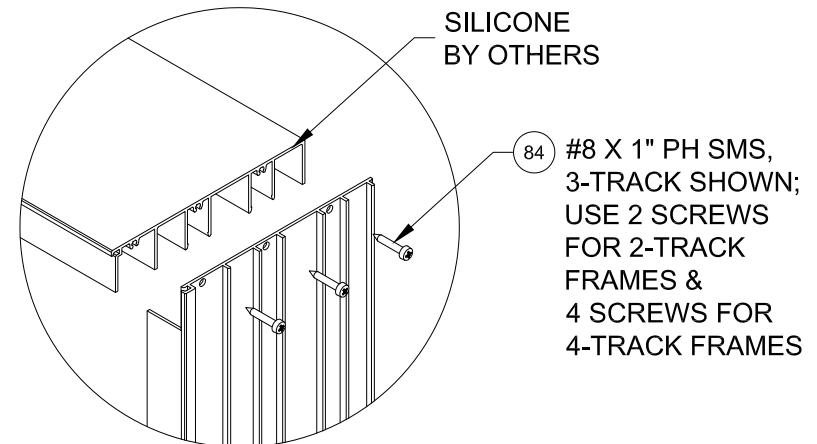
PANEL TYPES	SINGLE INTERLOCK OUT	SINGLE INTERLOCK IN	DOUBLE INTERLOCK	FIXED STILE	LOCKSTILE W/ HANDLE	ASTRAGAL BOX IN	ASTRAGAL BOX IN W/ HANDLE	ASTRAGAL BOX OUT	ASTRAGAL BOX OUT W/ HANDLE	INSIDE 90° ASTRAGAL RECEIVER W/ HANDLE	OUTSIDE 90° ASTRAGAL RECEIVER	OUTSIDE 90° ASTRAGAL RECEIVER W/ HANDLE	INSIDE 90° CORNER LOCKSTILE W/ HANDLE	OUTSIDE 90° CORNER LOCKSTILE W/ HANDLE	OUTSIDE 135° ASTRAGAL RECEIVER	INSIDE 135° ASTRAGAL RECEIVER	OUTSIDE 135° ASTRAGAL RECEIVER W/ HANDLE	INSIDE 135° ASTRAGAL RECEIVER W/ HANDLE				
SINGLE INTERLOCK OUT																						
	<i>E</i>	<i>F</i>		<i>PP</i>	<i>K</i>					<i>L</i> <small>(BOX IN)</small>			<i>TA</i>		<i>TC</i>	<i>TR</i>	<i>TQ</i>		<i>TV</i>	<i>TW</i>		
SINGLE INTERLOCK IN																						
	<i>B</i>			<i>P</i>	<i>A</i>					<i>C</i> <small>(BOX IN)</small>			<i>SA</i>		<i>SC</i>	<i>IC</i>	<i>SQ</i>			<i>SV</i>	<i>SW</i>	
DOUBLE INTERLOCK																						
			<i>I</i>	<i>YR</i>	<i>GR</i>																	
FIXED STILE																						
	<i>RR</i>	<i>R</i>	<i>Y</i>			<i>S</i> <small>(BOX IN)</small>		<i>S</i> <small>(BOX OUT)</small>		<i>FD</i>	<i>FC</i>								<i>FV</i>	<i>FW</i>		
LOCKSTILE W/ HANDLE																						
	<i>D</i>	<i>M</i>	<i>G</i>			<i>J</i> <small>(BOX IN)</small>	<i>W</i> <small>(BOX IN)</small>	<i>J</i> <small>(BOX OUT)</small>	<i>W</i> <small>(BOX OUT)</small>													
ASTRAGAL BOX IN																						
				<i>T</i> <small>(BOX IN)</small>	<i>U</i> <small>(BOX IN)</small>																	
ASTRAGAL BOX IN W/ HANDLE																						
																					<i>N</i> <small>(BOX IN)</small>	
ASTRAGAL BOX OUT																						
																					<i>T</i> <small>(BOX OUT)</small>	<i>U</i> <small>(BOX OUT)</small>
ASTRAGAL BOX OUT W/ HANDLE																						
																					<i>LR</i> <small>(BOX OUT)</small>	<i>WR</i> <small>(BOX OUT)</small>
INS. 90° ASTRAGAL RECEIVER W/ HANDLE																						
	<i>AT</i>	<i>AS</i>																			<i>DF</i>	
OUTSIDE 90° ASTRAGAL RECEIVER																						
																					<i>CF</i>	
OUT. 90° ASTRAGAL RECEIVER W/ HANDLE																						
	<i>CT</i>	<i>CS</i>																				
INS. 90° CORNER LOCKSTILE W/ HANDLE																						
	<i>RT</i>	<i>CI</i>																				
OUT. 90° CORNER LOCKSTILE W/ HANDLE																						
	<i>QT</i>	<i>QS</i>																				
OUTSIDE 135° ASTRAGAL RECEIVER																						
																					<i>VF</i>	
INSIDE 135° ASTRAGAL RECEIVER																						
																					<i>WF</i>	
OUTSIDE 135° AST. RECEIVER W/ HANDLE																						
	<i>VT</i>	<i>VS</i>																				
INSIDE 135° AST. RECEIVER W/ HANDLE																						
	<i>WT</i>	<i>WS</i>																				



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



PANEL CORNER DETAIL SHOWN WITHOUT STILE COVER



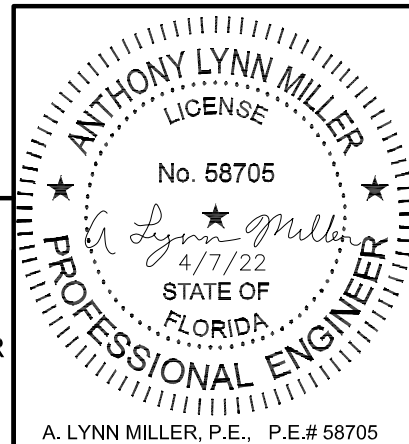
FRAME CORNER DETAIL 3-TRACK FRAME SHOWN

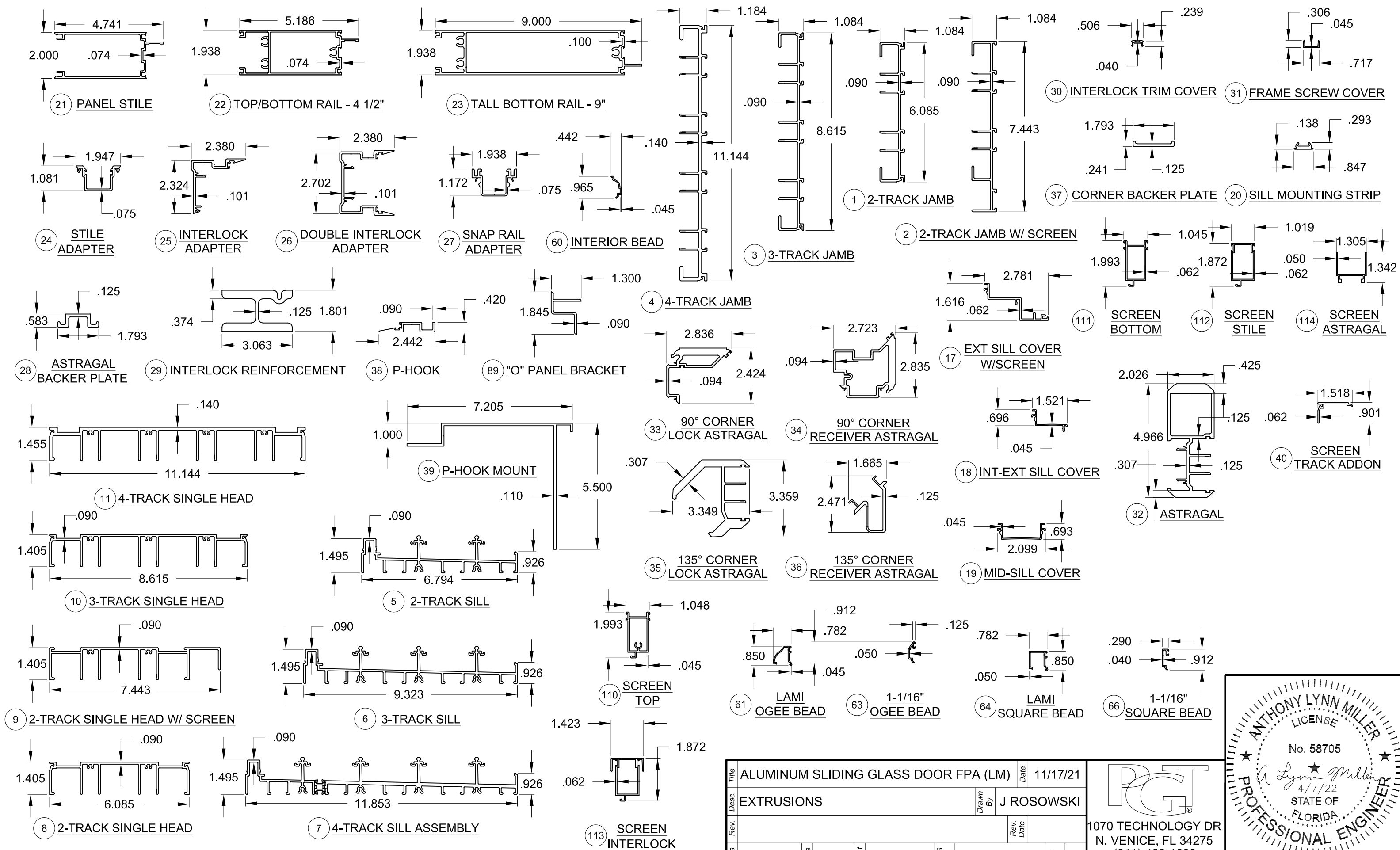
PANEL NOTES:

1. SEE DP/ANCHOR TABLES 1-4, SHEETS 7-8 FOR PANEL SIZES & DESIGN PRESSURE.
2. PANEL TYPES NOT SHOWN ARE NOT REQUIRED FOR ANY CONFIGURATIONS AND ARE NOT AVAILABLE.
3. MAXIMUM NOMINAL PANEL WIDTH FOR ALL PANEL CONFIGURATIONS IS 60".

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	PANEL TYPES		Drawn By	J ROSOWSKI
Rev.			Rev. Date	
Series	SGD-780	Scale	NTS	Sheet 17 OF 19
		DWG No.	SGD780-FPA.1	Rev. No. A

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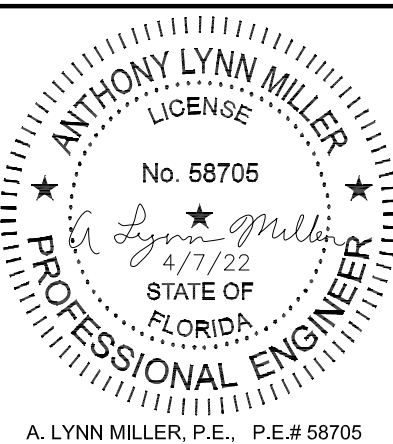




NOTES: 1) SEE SHEET 4 FOR SILL RISERS. ALL DIMENSIONS IN INCHES.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21
Desc.	EXTRUSIONS		Drawn By	J ROSOWSKI
Rev.			Rev. Date	
Series	SGD-780	Scale	.25	Sheet
				18 OF 19
		DWG No.	SGD780-FPA.1	Rev. No.
				A

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

TABLE D:

Bill of Material			
#	Part #	Description	Material
1	8134	2-Track Jamb	6063 T6 Al
2	8135	2-Track Jamb with Screen Rail	6063 T6 Al
3	8133	3-Track Jamb	6063 T6 Al
4	8132	4-Track Jamb	6063 T6 Al
5	8118	2-Track Sill	6063 T6 Al
6	8116	3-Track Sill	6063 T6 Al
7	8120	4-Track Sill	6063 T6 Al
8	8127A	2-Track Head	6063 T6 Al
9	8128A	2-Track Head with Screen Rail	6063 T6 Al
10	8124	3-Track Head	6063 T6 Al
11	8121	4-Track Head	6063 T6 Al
12	8140	Sill Riser - 1-5/8"	6063 T6 Al
13	8139	Sill Riser - 2-3/4"	6063 T6 Al
14	8138	Sill Riser - 3-1/2"	6063 T6 Al
15	8137	Sill Riser - 4-1/2"	6063 T6 Al
16	8182	Sill Riser - 5-1/4"	6063 T6 Al
17	8119A	Ext. Sill Cover with Screen Rail	6063 T6 Al
18	8117	Int-Ext. Sill Cover	6063 T6 Al
19	8115	Mid-Sill Cover	6063 T6 Al
20	8183	Sill Mounting Strip/Anchor Plate	6063 T6 Al
21	8012	Panel Stile	6063 T6 Al
22	8014C	Top/Bottom Rail	6063 T6 Al
23	8013C	9" Tall Bottom Rail	6063 T6 Al
24	8104	Stile Adaptor	6063 T6 Al
25	8102	Interlock Adaptor (Single)	6063 T6 Al
26	8101	Interlock Adaptor (Double)	6063 T6 Al
27	8103	Top Snap Rail Adaptor	6063 T6 Al
28	8105	Astragal Backup Plate	6063 T6 Al
29	8192	Interlock Reinforcement	6105 T5 Al
30	8200	Interlock Screw Cover with T-slot	6063 T6 Al
31	8136	Frame Screw Cover	6063 T6 Al
32	8107C	Astragal	6063 T6 Al
33	8110	90° Corner Lock Astragal	6063 T6 Al
34	8111	90° Corner Astragal Receiver	6063 T6 Al
35	8204	135° Corner Astragal	6063 T6 Al
36	8205	135° Passive Corner Mount	6063 T6 Al
37	8112	90° Corner Astragal Backup Plate	6063 T6 Al
38	8108	Pocket Door P-Hook	6063 T6 Al
39	8109	Pocket Door P-Hook Mount	6063 T6 Al
40	8141	Screen Frame Add-on (Sill)	6063 T6 Al
41	8142A	Screen Frame Add-on (Head)	6063 T6 Al
42	8143A	Screen Track Addon	6063 T6 Al

TABLE D, CONTINUED:

Bill of Material			
#	Part #	Description	Material
44	6TP248	Vinyl Bulb Weatherstrip @ Interlock	Flex PVC
45	6TP247	Vinyl Bulb Weatherstrip @ P-hook	Flex PVC
46	1644	.187" X .270" Weatherstrip	
47	1673	.500" Door Seal	
50		5/16" X 2" Lagbolt	SS
51	8197	Lagbolt Washer	SS
52	8153	Tandem Roller Assembly	SS
53	8153	Tandem Roller Assembly	Nylon
54		#10" X 1-1/2" Ph. PH. SMS @ Roller	SS
55	8052	Roller Adj. Hole Plug	PVC
60	8022	Interior Bead	6063 T5 Al
61	8145	Lami OG Bead	6063 T5 Al
63	8146	1-1/16" OG Bead	6063 T5 Al
64	8148	Lami Square Bead	6063 T5 Al
66	8149	1-1/16" Square Bead	6063 T5 Al
67	6TP247	Vinyl Glazing Bulb	
68	1643	Foam-filled Glazing Bulb (7/16" glazing only)	
69		Dow 791,899, 983, 995 or Instantglaze Glazing Silicone	Silicone
70	1725	Setting Block, 1/2" X 4" X 1/16", 85 +/- 5 duro.	EPDM
71	1726	Setting Block, 1" X 4" X 1/16" (IG), 85 +/- 5 duro.	EPDM
80	710X34PPSDAX	#10 X 3/4" Ph. PH. SMS @ P-hook	SS
82	78X58PPTX410	#8 X 5/8" Ph. PH. SMS @Sgl. & Dbl. Interlocks	SS
83	710X115PPX	#10 X 1-1/2" Ph. PH. SMS @ Astragal	SS
84	1155	#8 X 1" Ph. Quad. SMS @ Main frame	SS
85	72087K	Jamb Bumper	
86	76X38PPAX	#6 X .375" Ph. PH. SMS	SS
87	4385	4 Hole Bumper Stop	
88	78X38PPTX	#8 X 3/8" Ph. PH. SMS	Steel
89	8193	"O" Panel Bracket - 12" long	
90		#10 X 3/4" Ph. PH. SMS @ Fixed "O" Bracket to Stile	SS
91		#8 X 3/4" Ph. FH. SMS @ Fixed "O" Bracket to Frame	SS

TABLE D, CONTINUED:

Bill of Material			
#	Part #	Description	Material
92	Varies	Handle Kit	Cast Zinc
93	8185X	Gemini Mortice Lock w/Long Trim Plate	SS
94	8184X	Gemini Mortice Lock w/Pocket Trim Plate	SS
95		#10-32 X 1" Ph. FH. MS	Steel
96		#10-32 U-Nut	Steel
97		1" Mortice Keeper, 135° Corner & Straight	SS
98	8187X	3/4" Mortice Keeper, 90° Corner	SS
99		#10 X 1-1/2" Ph. PH. SMS @ Keeper	SS
100	1032X1FPFX	10-32 X 1" Ph. FH. MS	SS
110	4317	Screen Top Rail	6063 T6 Al
111	4318	Screen Bottom Rail	6063 T6 Al
112	4319	Screen Side Rail/Lockstile	6063 T6 Al
113	8152	Screen Interlock Adapter	6063 T6 Al
114	4344	Screen Astragal	6063 T6 Al
115	7SRAX	Roller	Nylon
116	7SRAX	Roller	SS
117		1/4" X 1" MS @ Top Rail	SS
118		1/4" X 1-1/2" MS @ Bottom Rail	SS
119		Screen Lockset	Steel
120	653	Screen Lock Keeper	Steel
121	1179	#10 X 3/4" Ph. PH. SMS @ Keeper	SS
122	1793	.270" X .150" Weatherstrip	
123	1692	Screen Spline - .165"	Vinyl
124		Screen Cloth	Fiberglass

TABLE E:

Material	Min. F _y	Min. F _u
#12 Steel Screw	92 ksi	120 ksi
#12 410 Screw	90 ksi	110 ksi
1/4" DeWalt/Elco Aggre-Gator®	57 ksi	96 ksi
1/4" Elco UltraCon®	155 ksi	177 ksi
1/4" DeWalt UltraCon+®	148 ksi	164 ksi
1/4" 410 SS DeWalt/Elco CreteFlex®	127.4 ksi	189.7 ksi
6063-T5 Aluminum	16 ksi	22 ksi
A36 Steel	36 ksi	58 ksi
Gr. 33 Steel Stud	33 ksi	45 ksi

TABLE F:

BOM Revisions	
Removed unused Items #43, 62, 65 & 81.	
Added Dow 791 & 983 to Item #69.	
Removed Items #72 - #74, (shown on sheet 11).	
Added missing Items #92 - #100.	

NOTES:

1) ITEMS # 43, 48-49, 56-59, 62, 65, 76-79, 81 & 101-109 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.

Title	ALUMINUM SLIDING GLASS DOOR FPA (LM)		Date	11/17/21					
	Desc.	PARTS LIST		Drawn By	J ROSOWSKI				
Rev.				Rev. Date					
	Series	SGD-780	Scale	NTS	Sheet	19 OF 19	DWG No.	SGD780-FPA.1	Rev. No.

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