

SERIES SGD4130 IMPACT RESISTANT
SLIDING GLASS DOOR

FLORIDA PRODUCT APPROVAL #29078

DESIGN PRESSURE RATING	IMPACT RATING
+55/-65 PSF	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) ANCHORAGE: THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

4) OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE, AS APPLICABLE.

ANCHOR NOTES:

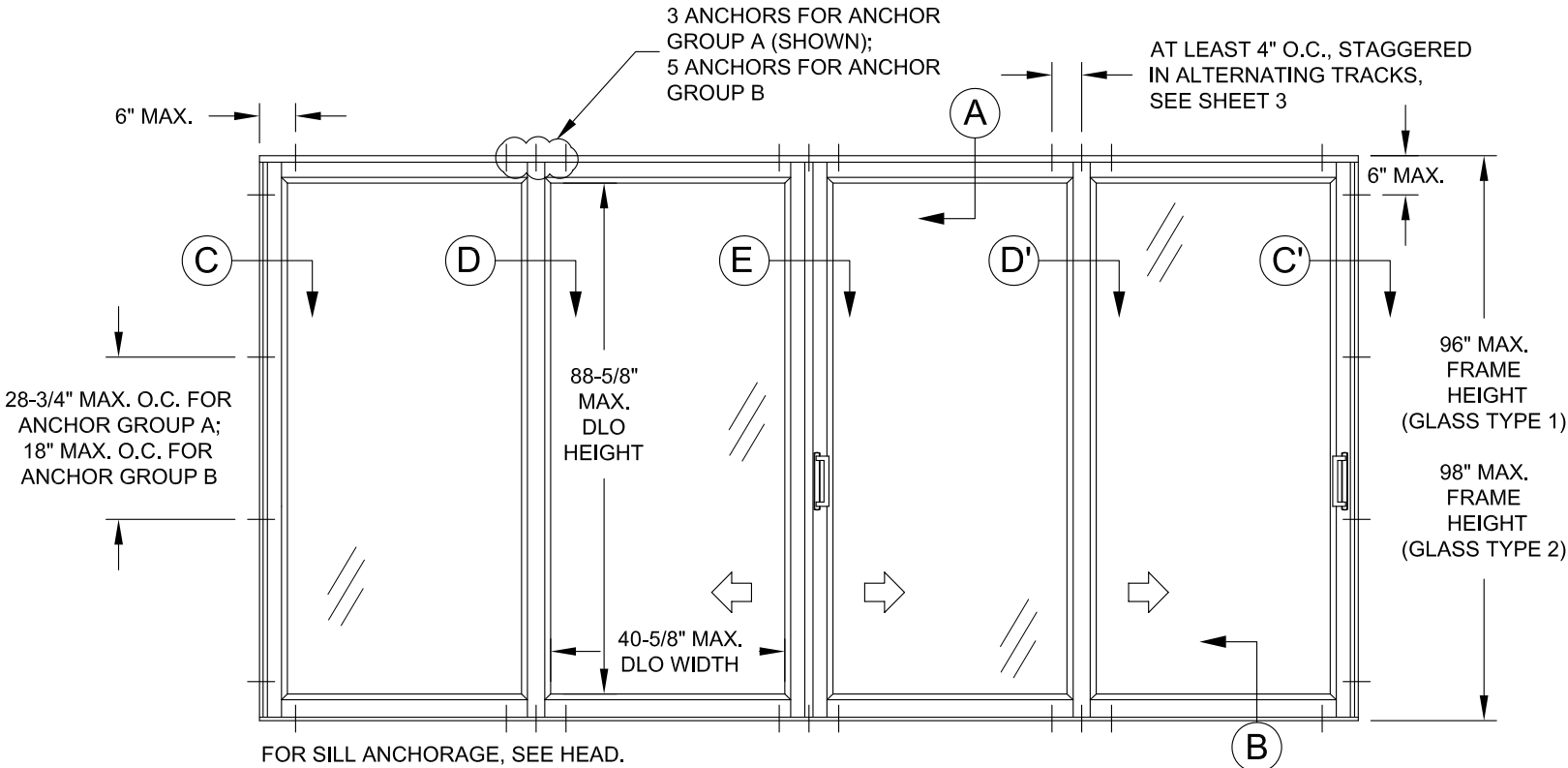
1) SEE TABLE 1 ON THIS SHEET FOR EMBEDMENT, EDGE DISTANCE AND SUBSTRATE ANCHORAGE REQUIREMENTS.

2) 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.

3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED BY OTHERS TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.



TYP. ANCHOR LOCATIONS

4 PANEL, 2 TRACK BYPASS OXXX
CONFIGURATION SHOWN.

TABLE 1:

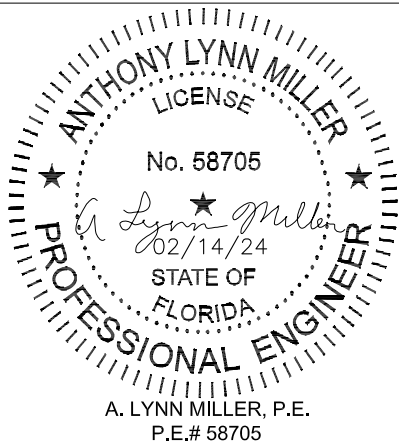
Anchor Group	Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
A	#12 SMS Screw (G5); Steel, 18-8 SS or 410 SS	Southern Pine (SG = .55)	9/16"	1-3/8"
		Aluminum, 6063-T5 min.	3/8"	1/8"
		Steel Stud, 16 Ga., Gr. 33 min.	3/8"	0.0566"
		A36 Steel	3/8"	0.050"
	1/4" steel Ultracon+	Concrete (min. 3.0 ksi)	2-1/2"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Southern Pine (SG = .55)	1"	1-3/8"
	1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
Southern Pine (SG = .55)		1"	1-3/8"	
B	1/4" steel Ultracon+	Concrete (min. 3.0 ksi)	1-5/8"	1-3/8"
		Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	1/4" 410 SS CreteFlex	Concrete (min. 3.35 ksi)	1"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	1-1/4"	1-1/4"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUT-FILLED CMU APPLICATIONS.
3) ANY ANCHOR HEAD TYPE IS APPLICABLE.

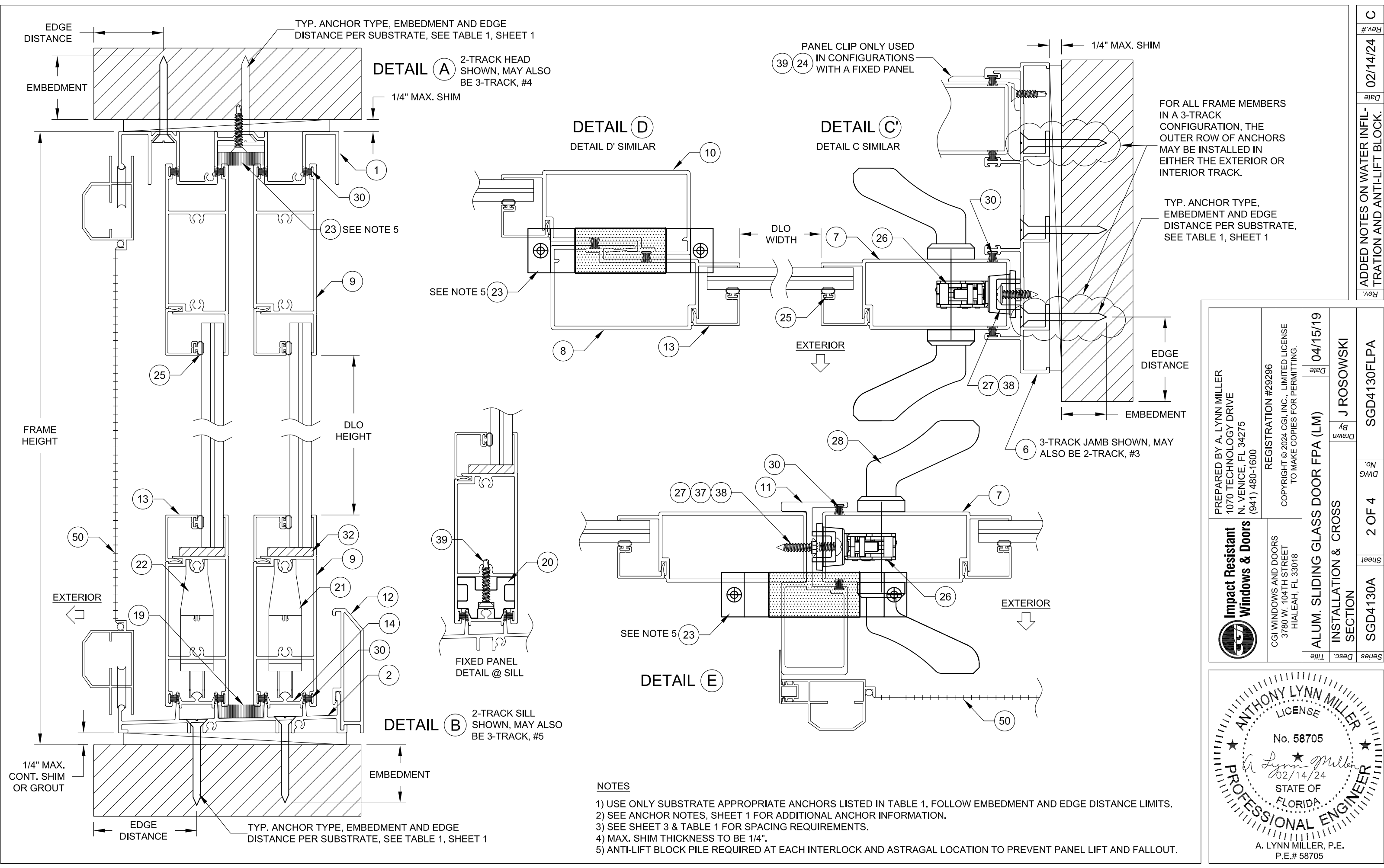
UNLIMITED NUMBER OF PANELS IN ANY 2-TRACK OR 3-TRACK CONFIGURATION USING VERTICAL CONDITIONS SHOWN ON SHEET 2 ARE APPROVED AS LONG AS THE PANEL DLO WIDTH DOES NOT EXCEED THE TESTED DLO WIDTH OF 40-5/8" AND THE TESTED FRAME HEIGHT OF 98" IS NOT EXCEEDED.

ADDITIONALLY, FOR INSTALLATIONS IN THE HVHZ, MAXIMUM FRAME AREA OF 194.6 SQUARE FEET MAY NOT BE EXCEEDED.

 Impact Resistant Windows & Doors	CGI WINDOWS AND DOORS 3780 W. 104TH STREET HIALEAH, FL 33018	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
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		04/15/19			
Title	ALUM. SLIDING GLASS DOOR FPA (LM)	Date			
Series	SGD4130A	Sheet	1 OF 4	DWG No.	SGD4130FLPA
Desc.	ELEVATION & GENERAL NOTES	Drawn By	J ROSOWSKI		



Rev.	02/14/24	C
Date		
ADDED NOTES ON WATER INFILTRATION AND ANTI-LIFT BLOCK.		



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CGI WINDOWS AND DOORS 3780 W. 104TH STREET HIALEAH, FL 33018		ALUM. SLIDING GLASS DOOR FPA (LM)	
INSTALLATION & CROSS SECTION		J ROSOWSKI	
SGD4130A		2 OF 4	
SGD4130FLPA		02/14/24	
C		Rev.	

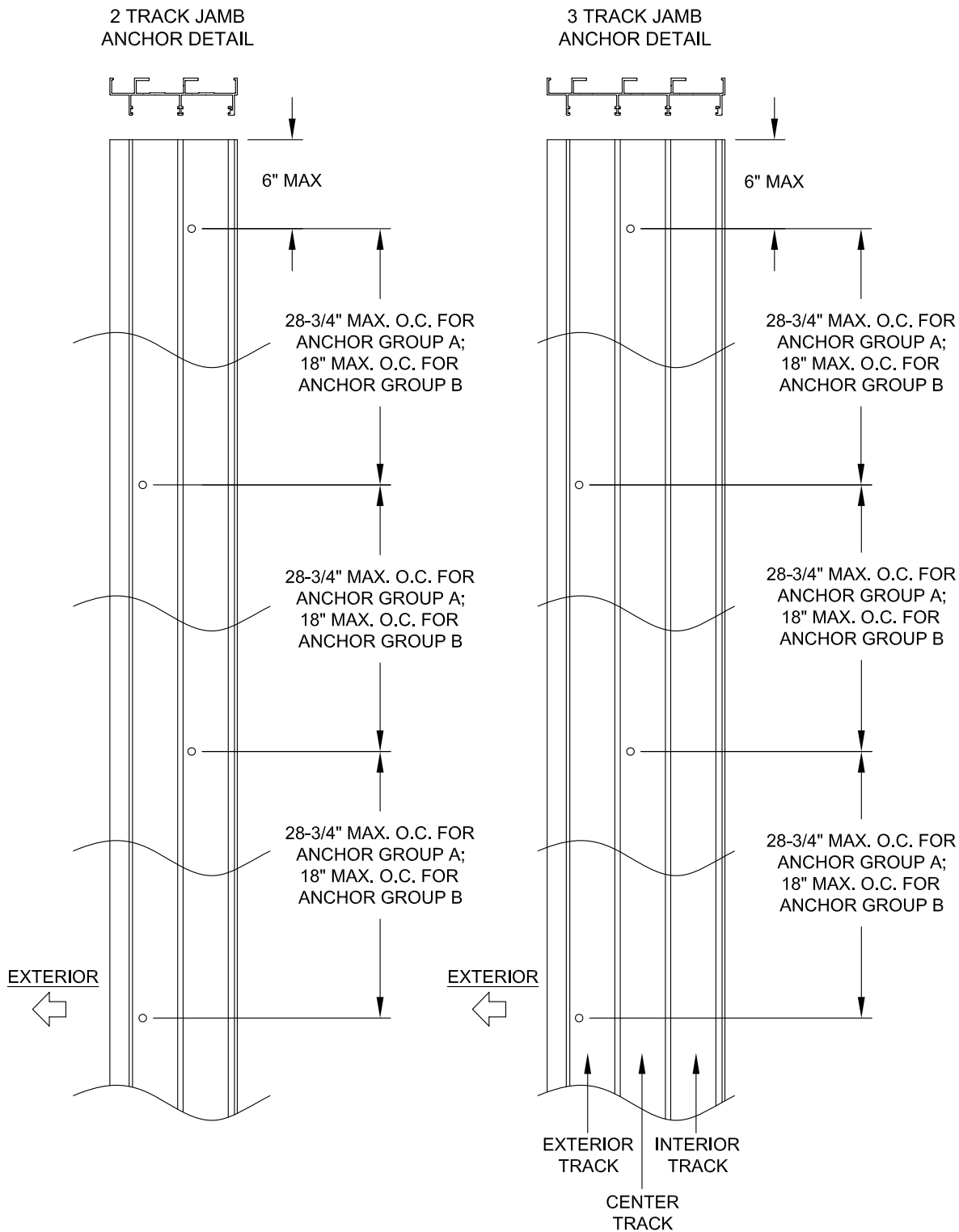
ADDED NOTES ON WATER INFILTRATION AND ANTI-LIFT BLOCK.

02/14/24

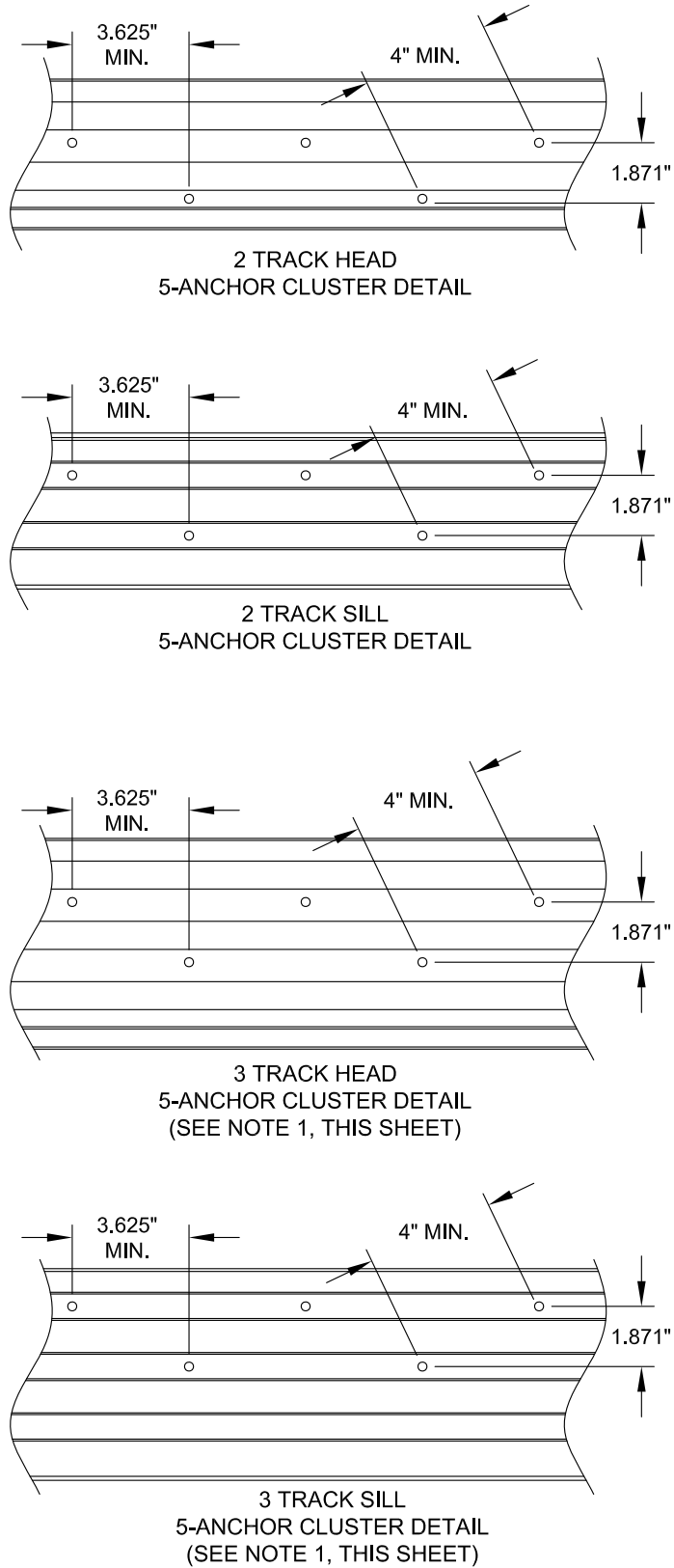
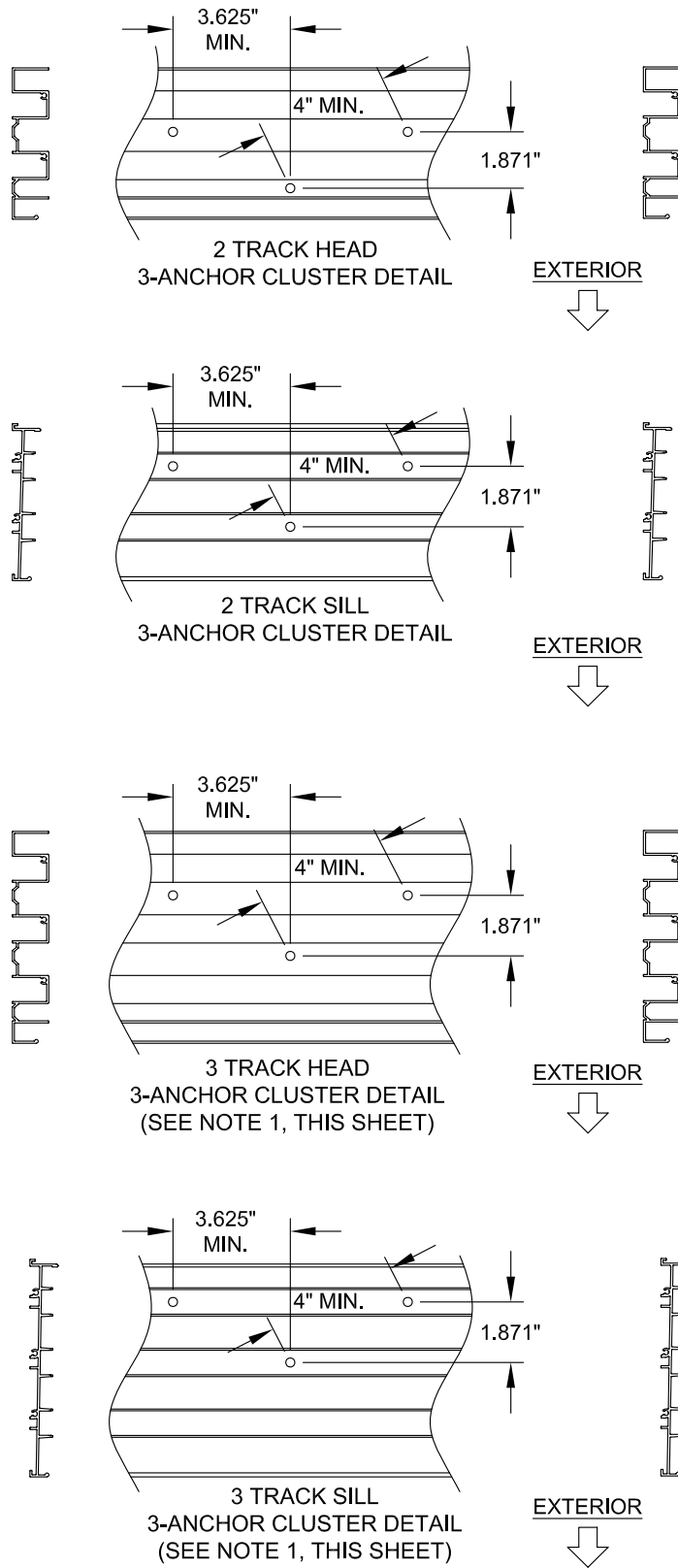
04/15/19

02/14/24

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



NOTE 1) FOR ALL FRAME MEMBERS IN A 3-TRACK CONFIGURATION, THE OUTER ROW OF ANCHORS MAY BE INSTALLED IN EITHER THE EXTERIOR OR INTERIOR TRACK.



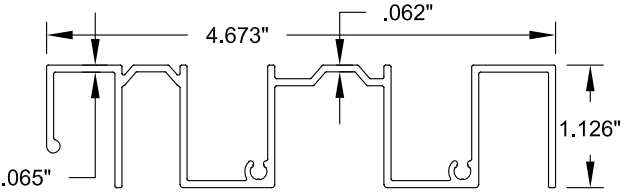
Impact Resistant Windows & Doors	CGI WINDOWS AND DOORS 3780 W. 104TH STREET HIALEAH, FL 33018	REGISTRATION #29296 COPYRIGHT © 2024 CGI, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	04/15/19	By J ROSOWSKI	Date	SGD4130FLPA
	ALUM. SLIDING GLASS DOOR FPA (LM)					
INSTALLATION ANCHOR HOLE LOCATION						
SGD4130A	3 OF 4	DWG	No.			
Series	Desc.	Title				

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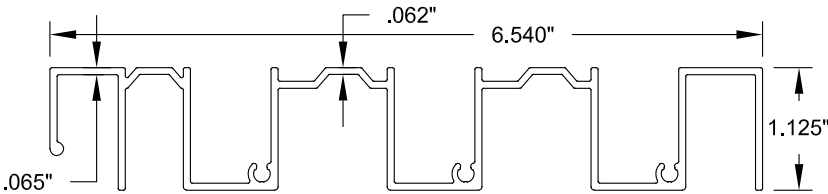
ANTHONY LYNN MILLER
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02/14/24
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P.E.# 58705

TABLE 2:

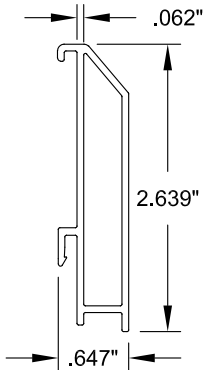
Item	Part #	Description	Mat.
1	AL-1140	2-Track Frame Head	6063-T6
2	AL-1142	2-Track Frame Sill	6063-T6
3	AL-1141	2-Track Frame Jamb	6063-T6
4	AL-1143	3-Track Frame Head	6063-T6
5	AL-1145	3-Track Frame Sill	6063-T6
6	AL-1144	3-Track Frame Jamb	6063-T6
7	AL-1147	Horizontal Stile	6063-T6
8	AL-1148	Exterior Interlock	6063-T6
9	AL-1150	Vertical Rail	6063-T6
10	AL-1149	Interior Interlock	6063-T6
11	AL-1151	Astragal	6063-T6
12	AL-1146	Waterbar Adaptor	6063-T6
13	AL-1152	7/16" Laminated Glazing Bead	6063-T6
14	AL-1153	Roller Track	6063-T6
19	HD-12-10251A	Interlock Pad @ Sill, 0.55" X 2" X 0.36"	
20	HD-77-10244	Fixed Panel Shim	
21	HD-77-10245	Roller Shim	
22	HD-77-10249	Tandem Rollers	
23	HD-77-10246	Anti-Lift Block Pile @ Head & (2) #8 X 1/2" SMS	
24		Fixed Panel Clip	6063-T6
25	WS-382V	Glazing Bulb 0.187" X 0.200"	PVC
26		Lock Kit	
27		Keeper Kit	
28		Handle Set Kit	
29		Recessed Handle	
30	64066G	Weatherstrip .187" X .230" Fin Seal	
32	PGT 71828K	1/2" X 4" X 1/8" Setting Block	
33	204-W	Bumper	PVC
34		7/16" Adjustment Screw Cover	
35		#8 X 1" Pan Phil A (Assembly)	410SS
36		#10-16 X 1-1/4" Pan Phil Tek	410SS
37		#10 X 5/8" Pan Phil AB (Astragal)	410SS
38		#10 X 1" Pan PH TEK 410 SS (Keeper)	410SS
39		#8 X 3/4" Flat Phil Tek (O-panel)	410SS
40		#10-32 X 3/4" Flat (Undercut) Ph	410SS
41	HD-77-10252	0.810" X 1-3/16" X 0.690"; Top/Bot Rail Plug	
42		Dow 791, 983 or RGS 7700	Sealant
50		Screen Assembly	varies



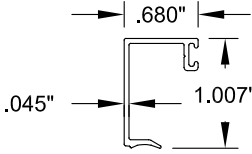
1 2-TRACK HEAD



4 3-TRACK HEAD



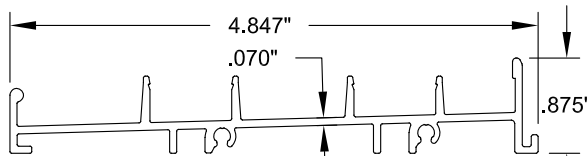
12 WATERBAR ADAPTER



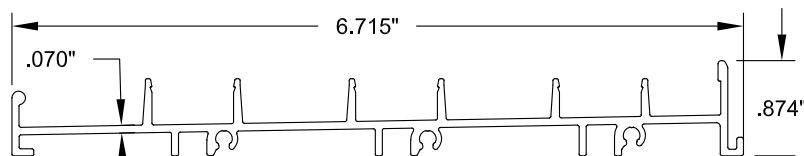
13 BEADING



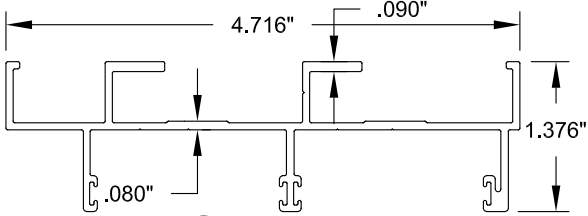
14 ROLLER TRACK



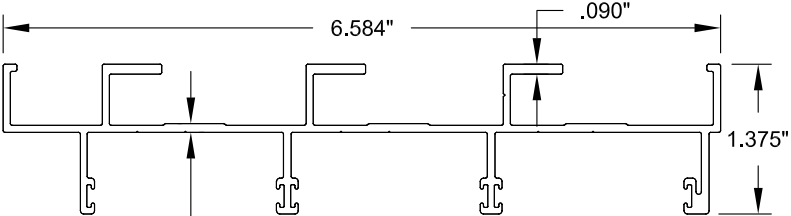
2 2-TRACK SILL



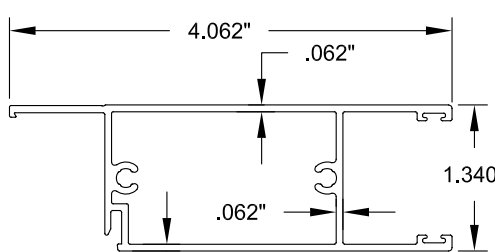
5 3-TRACK SILL



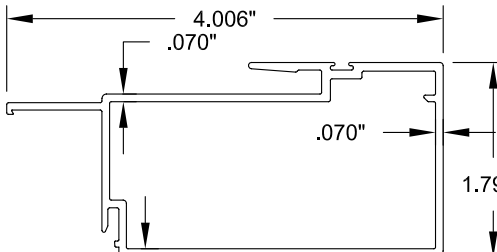
3 2-TRACK JAMB



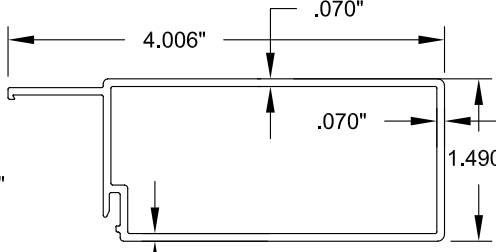
6 3-TRACK JAMB



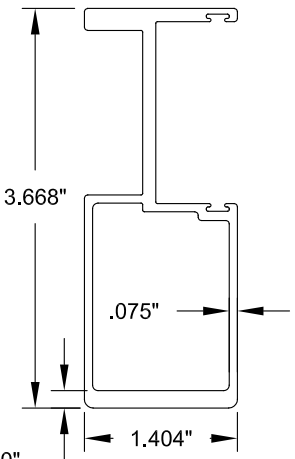
7 HORIZONTAL RAIL



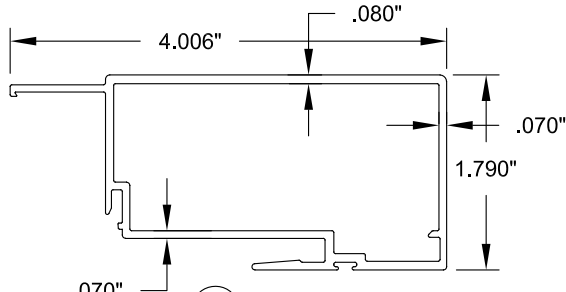
8 EXTERIOR INTERLOCK



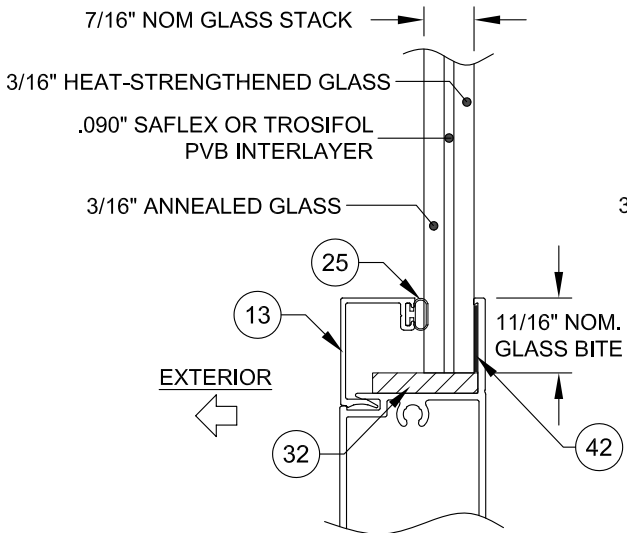
9 VERTICAL STILE



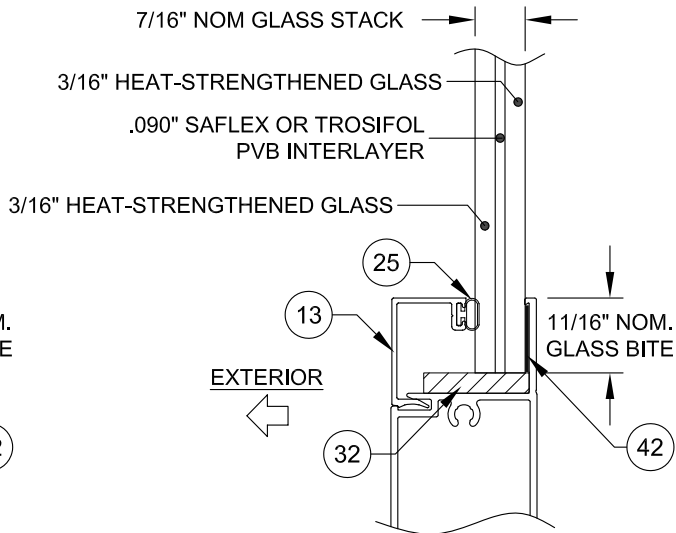
11 ASTRAGAL



10 INTERIOR INTERLOCK

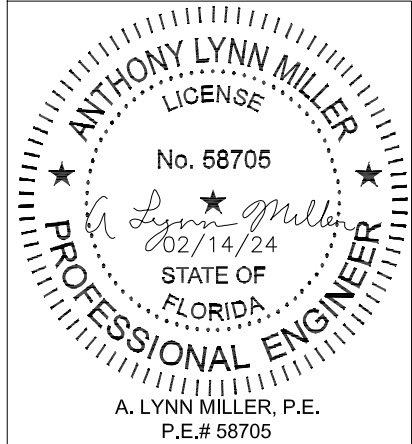


GLASS TYPE 1



GLASS TYPE 2

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Impact Resistant Windows & Doors		CGI WINDOWS AND DOORS 3780 W. 104TH STREET HIALEAH, FL 33018		ALUM. SLIDING GLASS DOOR FPA (LM)	
GLAZING INFORMATION, EXTRUSION AND BOM		J ROSOWSKI		SGD4130FLPA	
SGD4130A		4 OF 4		DWG	
SGD4130A		4 OF 4		Sheet	
SGD4130A		4 OF 4		Title	



Rev. #	02/14/24	C
Date		
Added Notes on Water Infiltration and Anti-Lift Block.		