

**SERIES PW5540 IMPACT RESISTANT, VINYL FIXED
CASEMENT WINDOW WITH DIAMOND GLASS**

FLORIDA PRODUCT APPROVAL #29700

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

- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.

- 3) 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

- 4) ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- 5) A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

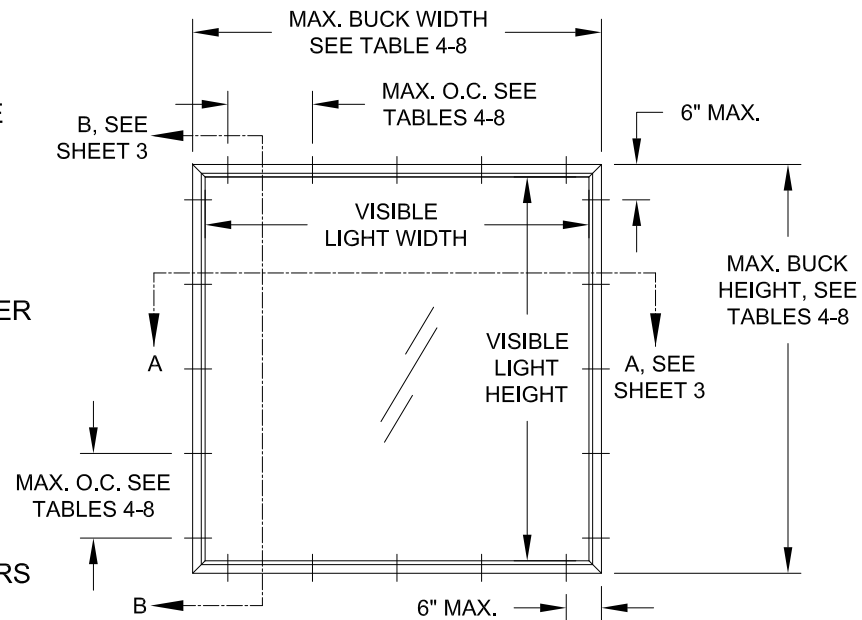
- 6) ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

- 7) MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE & ADOPTED STANDARDS.

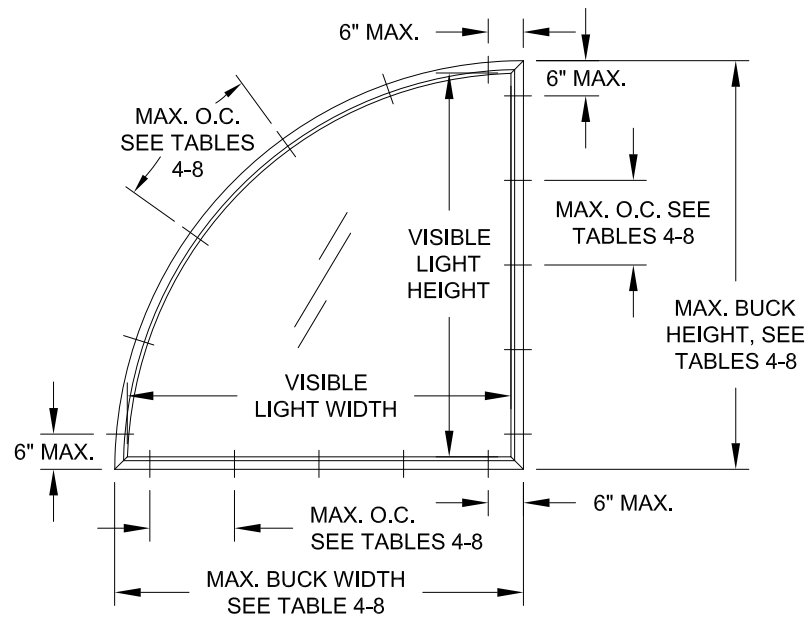
- 8) THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR THE SITE-SPECIFIC PROJECTS INCLUDING CONSIDERATIONS FOR LIFE SAFETY, STRUCTURAL ADEQUACY FOR ACCOMMODATING THIS PRODUCT AND THE EFFECTIVENESS OF SEALING AROUND THE OPENINGS TO RESIST WATER INFILTRATION.

- 9) CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

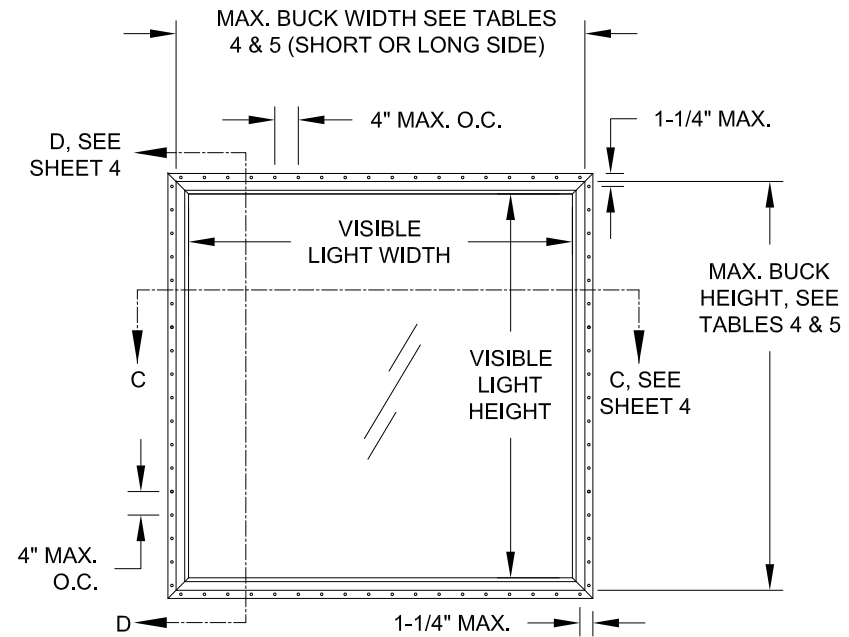
- 10) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.



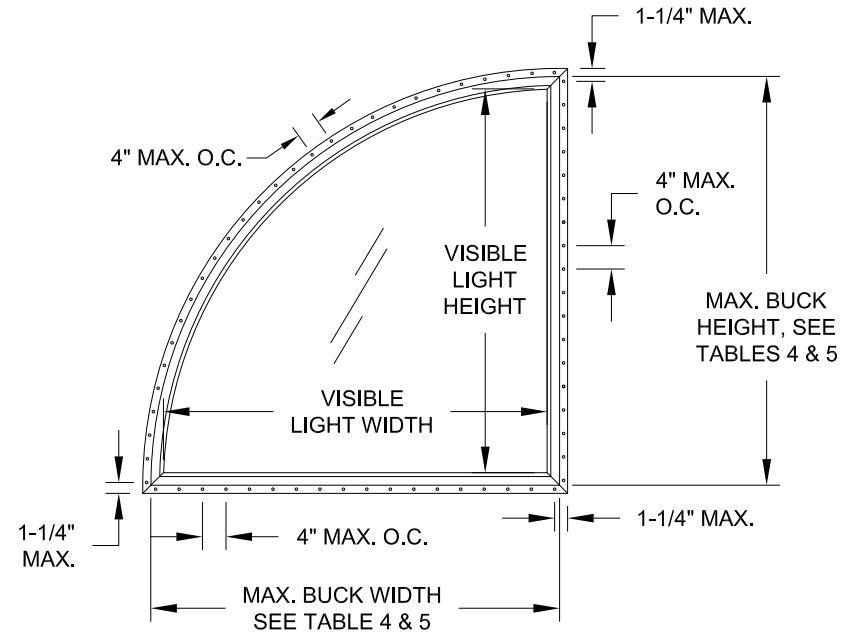
TYP. EQUAL-LEG/BOX &
FLANGE FRAME (90° CORNERS)



TYP. EQUAL-LEG/BOX &
FLANGE FRAME (CURVED
OR ANGLED CORNERS)



TYP. INTEGRAL FIN & J-CHANNEL
FRAME (90° CORNERS)
(ANCHORED THROUGH NAIL FIN)



TYP. INTEGRAL FIN & J-CHANNEL FRAME
(CURVED OR ANGLED CORNERS)
(ANCHORED THROUGH NAIL FIN)

IMPACT RATING	DESIGN PRESSURE RATING
LARGE & SMALL MISSILE IMPACT RESISTANT	VARIES PER GLASS TYPE, SEE TABLES 4-8

GENERAL NOTES & ELEVATIONS.....	1
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THIS SYSTEM HAS BEEN TESTED TO MEET THE 400 FT-LB
KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF
ANSI Z97.1 WHEN USING GLASS TYPES 3 & 6.

GLASS USED ABOVE 30 FEET IN THE HVHZ MUST HAVE A TEMPERED CAP.

VISIBLE LIGHT FORMULAS

		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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Title	ALUM FIXED CASEMENT - DIAMOND GLASS		Date 02/04/25
Desc.	ELEVATION & GENERAL NOTES		Drawn By JENS ROSOWSKI
Series	PW5540	1 OF 11	DWG No. PW5540-DG
Sheet			

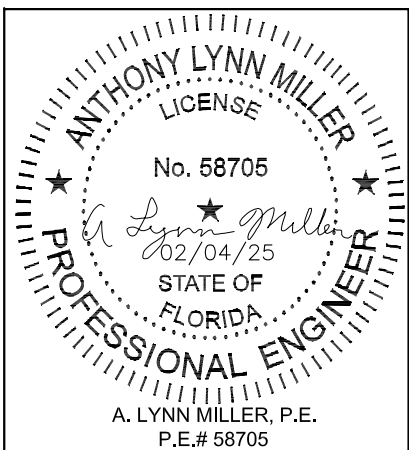


TABLE 1: ANCHORS INSTALLED THROUGH FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.050"
	3/16" steel Ultracon+	Southern Pine (SG=0.55)	7/16"	1-3/8"
		Concrete (min. 3 ksi)	1"	1-3/8"
		UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=0.55)	9/16"	1-3/8"
		Steel, A36*	3/8"	0.050"
		Steel Stud, A653 Gr. 33*	3/8"	0.0451" (18 Ga.)
		Aluminum, 6063-T5*	3/8"	0.063"
	1/4" steel Ultracon+	Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Aggre-Gator	Southern Pine (SG=0.55)	1"	1-3/8"
C	1/4" steel Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	1"	1-3/4"
D	1/4" steel Ultracon+	Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Creteflex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" steel Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
"UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

TABLE 2: ANCHORS INSTALLED THROUGH INTEGRAL FIN

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
		Southern Pine (SG=0.55)	3/8"	2-7/16"
	2-1/2" Ring-shank Roofing Nail	Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.100"
	#10 Trusshead SMS (Steel, 18-8 S.S. or 410 S.S.)	Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
		Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.100"
	#12 SMS (Steel, 18-8 SS or 410 SS), Flathead or Panhead	Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"

* MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

ALL ARCHITECTURAL WINDOW SHAPES QUALIFIED, COMMON EXAMPLES SHOWN. INSCRIBE THE SHAPE IN A BLOCK (SEE EXAMPLES BELOW), AND OBTAIN DESIGN PRESSURES FOR THAT BLOCK SIZE FROM DESIGN PRESSURE TABLES.

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

LONG SIDE

SHORT SIDE

WINDOW FRAMES MAY BE ANY OF THOSE SHOWN BELOW:

FLANGE

BOX OR EQUAL LEG

J-CHANNEL

INTEGRAL FIN

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3400 PRECISION DRIVE
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ALUM FIXED CASEMENT - DIAMOND GLASS

ANCHOR & FRAME OPTIONS

02/04/25

By JENS ROSOWSKI

02/04/25

2 OF 11

PW5540

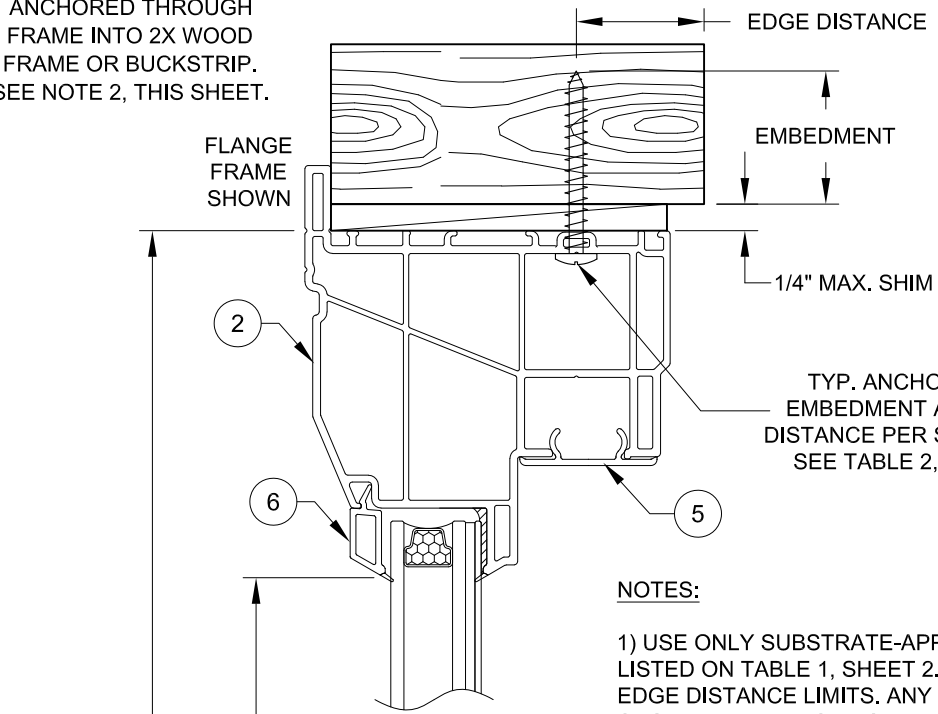
PW5540-DG

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P.E.# 58705

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

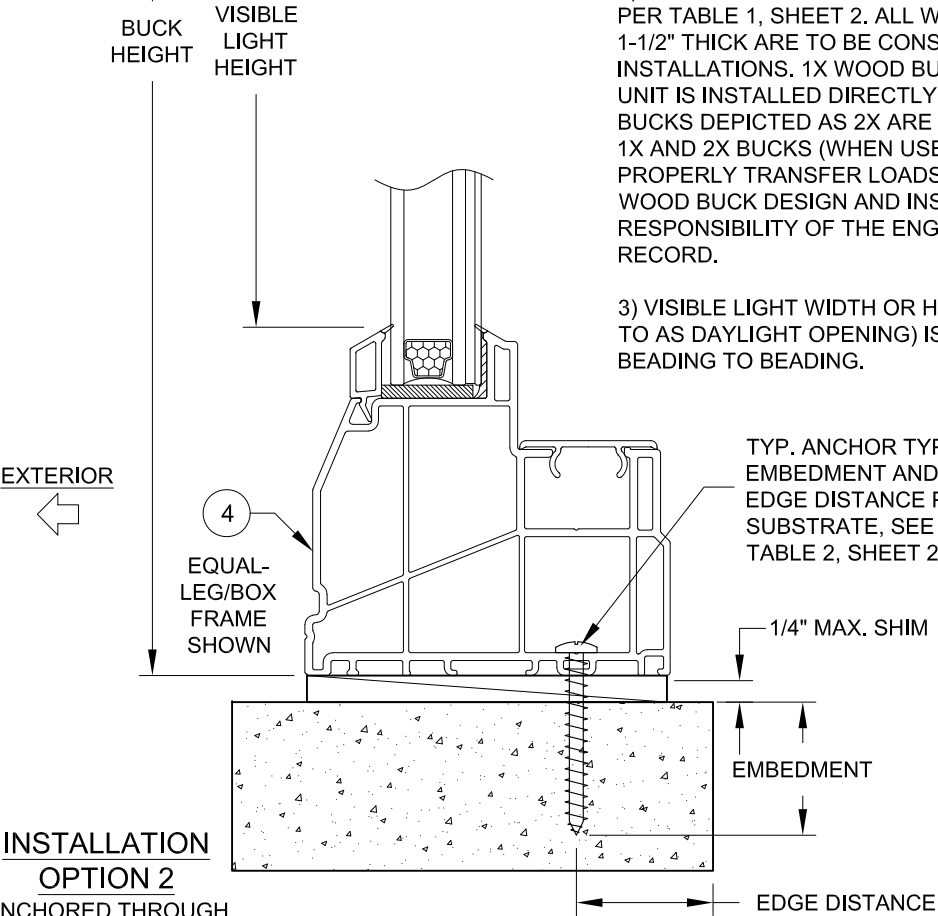
INSTALLATION
OPTION 1

ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.



NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 1, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.

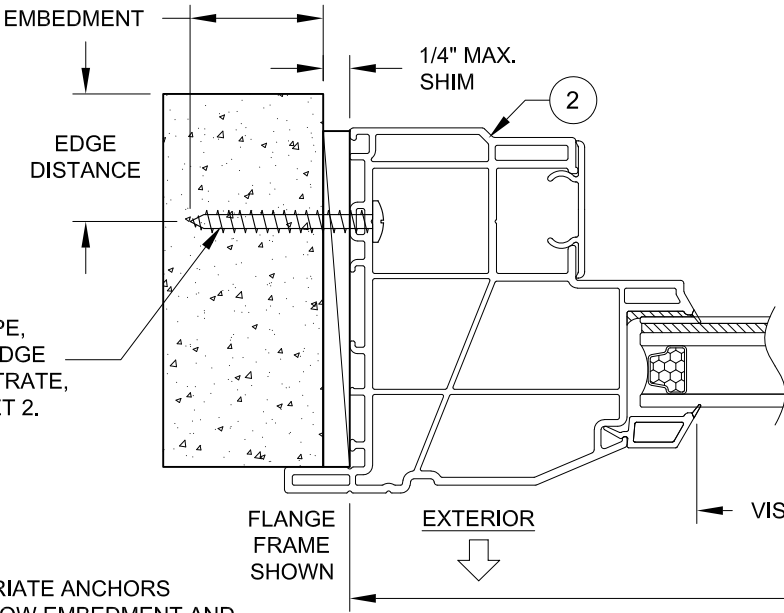


INSTALLATION
OPTION 2

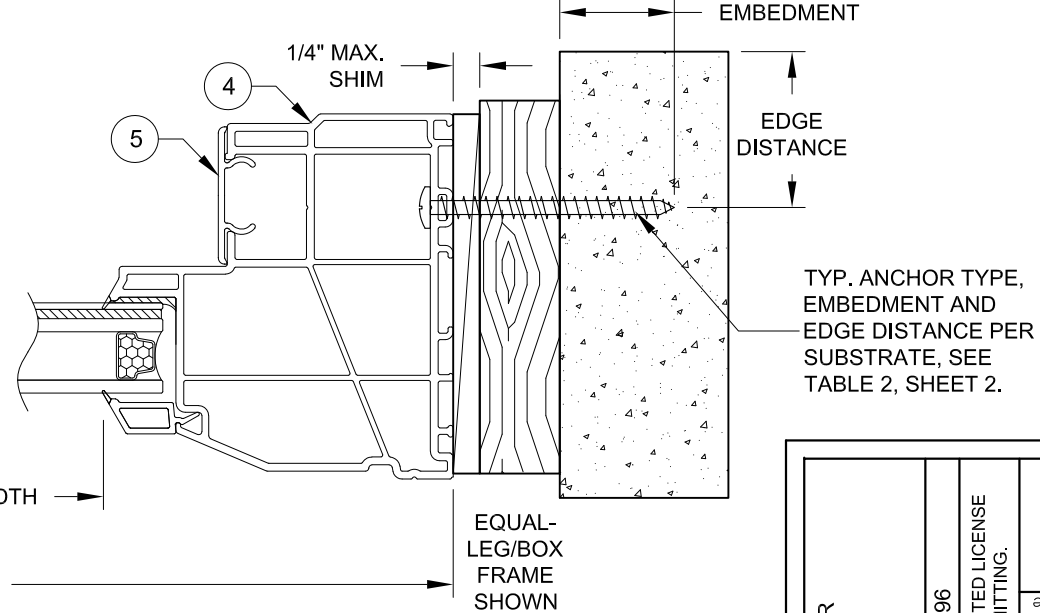
ANCHORED THROUGH
FRAME DIRECTLY INTO
CONCRETE/CMU.

VERTICAL SECTION B-B

INSTALLATION OPTION 2
ANCHORED THROUGH FRAME
DIRECTLY INTO CONCRETE/CMU.

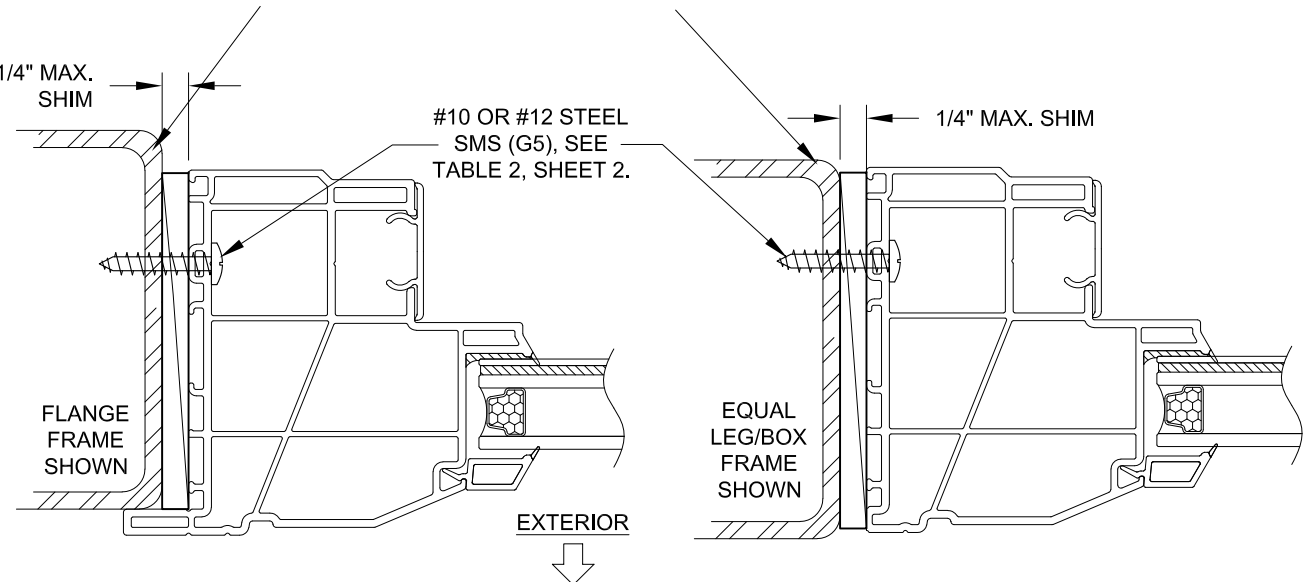


INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION A-A

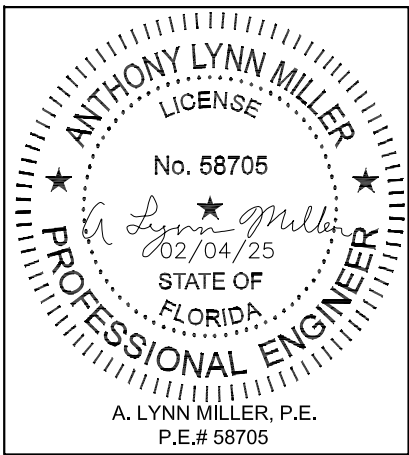
APPROVED MULLION, ALUMINUM/STEEL FRAMING OR
STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE
SUBSTRATE PROPERTIES, TABLE 1, SHEET 2.



INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

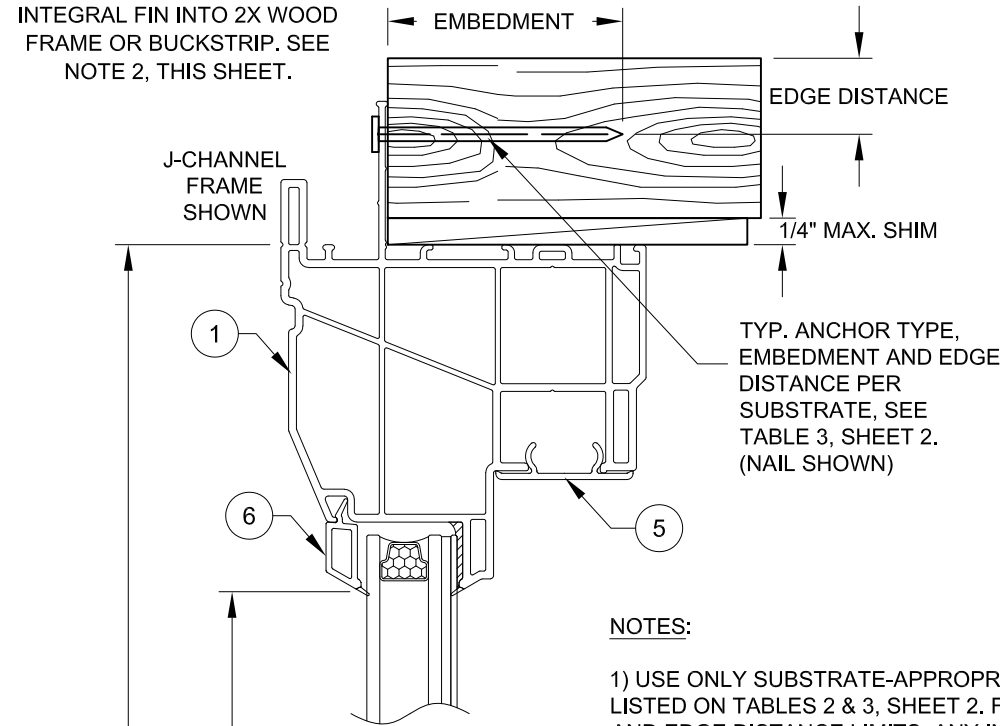
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INSTALLATION		PW5540		3 OF 11		DWG		No.	
Sheet		PW5540		3 OF 11		DWG		No.	
Title		PW5540		3 OF 11		DWG		No.	



INSTALLATION DETAILS FOR INTEGRAL FIN & J-CHANNEL FRAMES

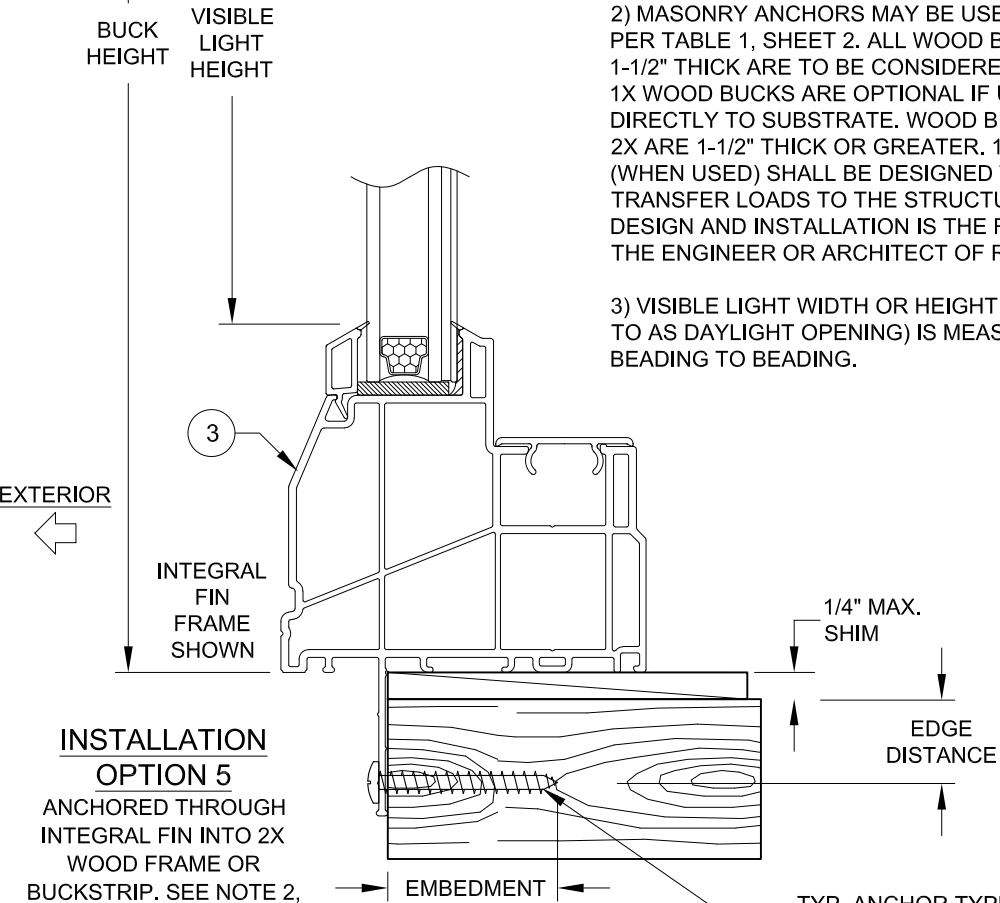
INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



NOTES:

- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLES 2 & 3, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 1, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



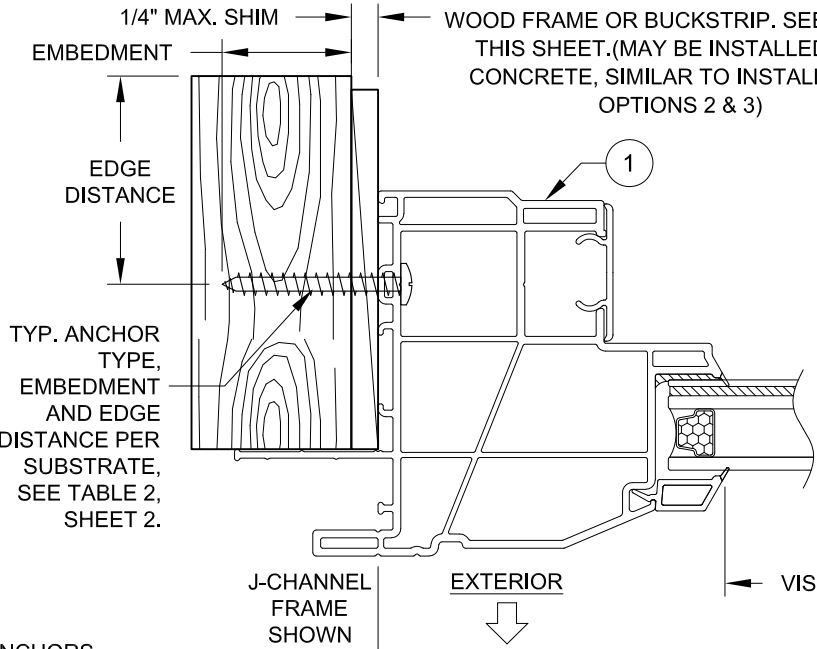
INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.

VERTICAL SECTION D-D

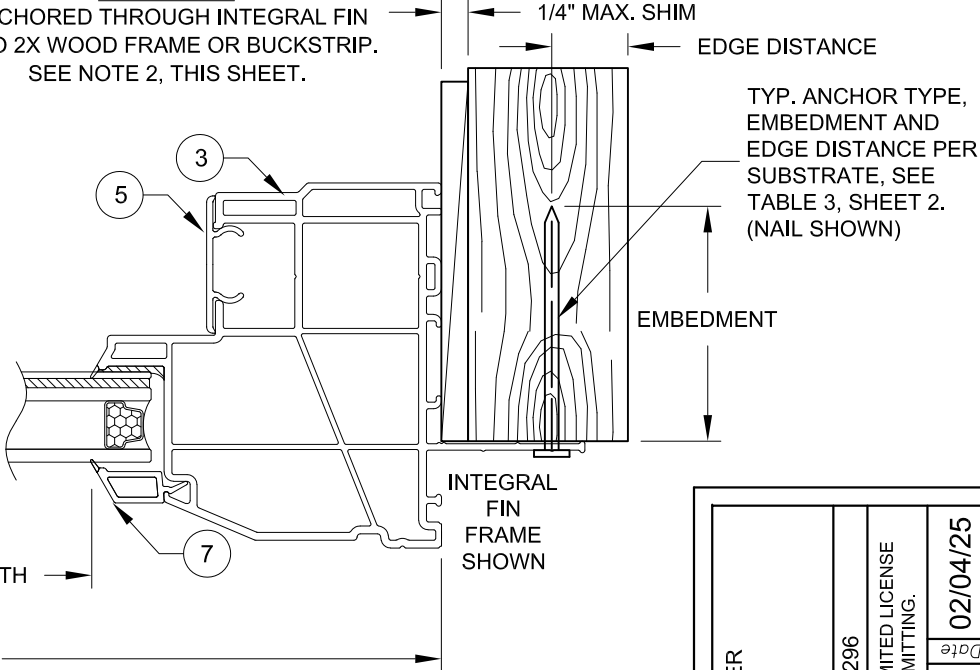
INSTALLATION OPTION 6

ANCHORED THROUGH FRAME INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.(MAY BE INSTALLED INTO CONCRETE, SIMILAR TO INSTALLATION OPTIONS 2 & 3)



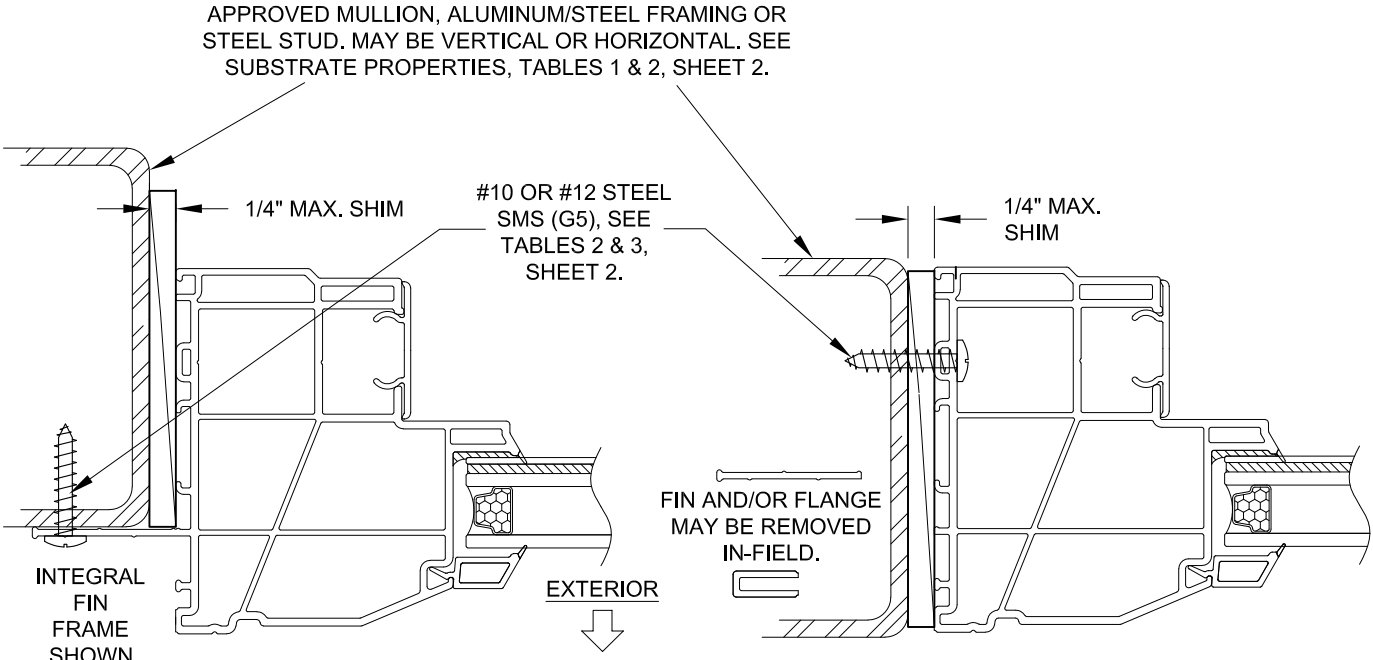
INSTALLATION OPTION 5

ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



HORIZONTAL SECTION C-C

APPROVED MULLION, ALUMINUM/STEEL FRAMING OR STEEL STUD. MAY BE VERTICAL OR HORIZONTAL. SEE SUBSTRATE PROPERTIES, TABLES 1 & 2, SHEET 2.



INSTALLATION OPTION 7

INSTALLATION THROUGH THE INTEGRAL FIN, INTO METAL, SEE TABLE 2, SHEET 2. INSTALLATION OPTION 4 (FLANGE FRAME) ALLOWED WITH MULLION INSTALLATION. SEE SHEET 3.

INSTALLATION OPTION 8

INSTALLATION THROUGH THE FRAME, INTO METAL, SEE TABLE 1, SHEET 2.

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INSTALLATION		4 OF 11		Sheet		PW5540		PW5540	
Title		Desc.		Series		PW5540		PW5540	

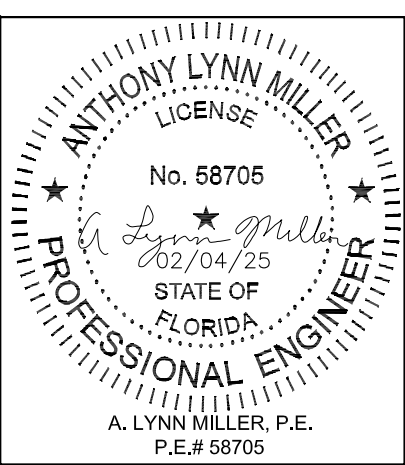


ILLUSTRATION OF FIXED CASEMENT-
TO-FIXED CASEMENT (OO)
(EQUAL LEG/BOX FRAME WITH IDENTICAL PRODUCTS COMBINED)

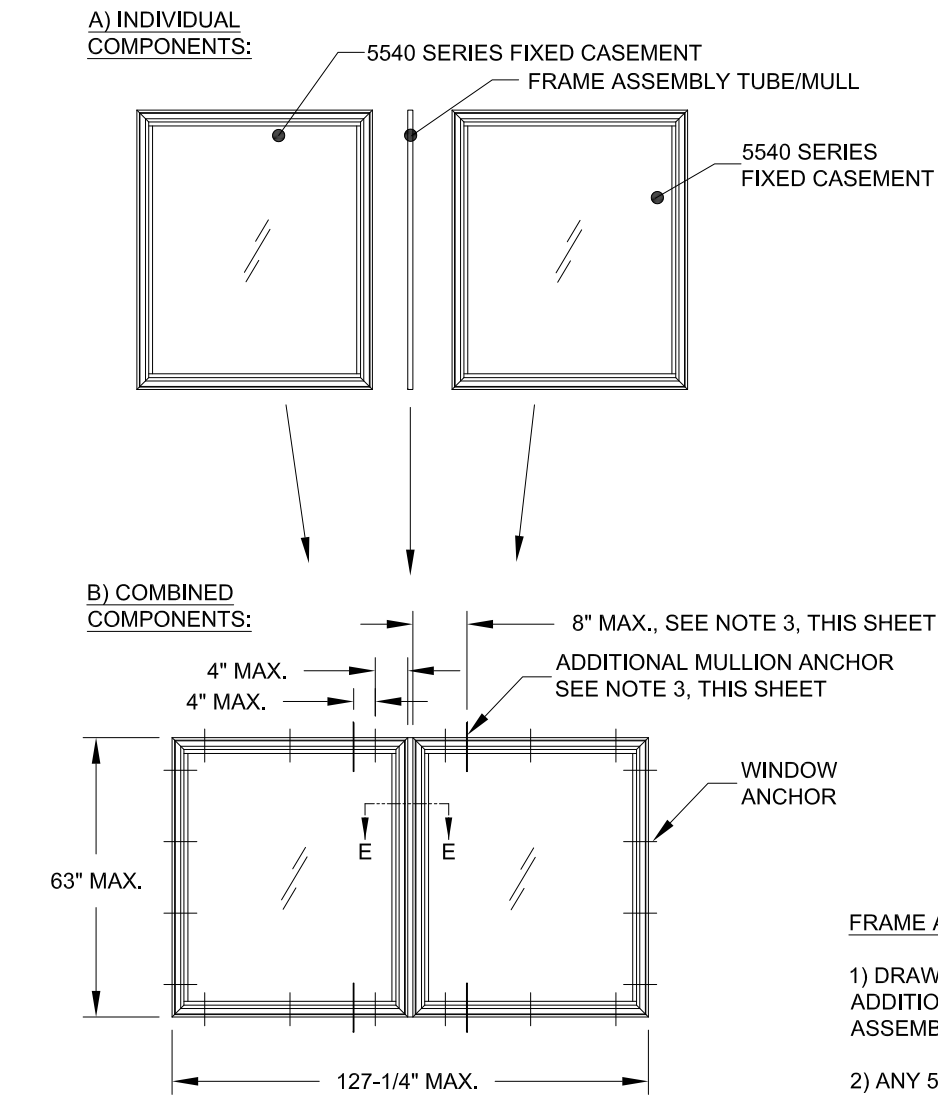
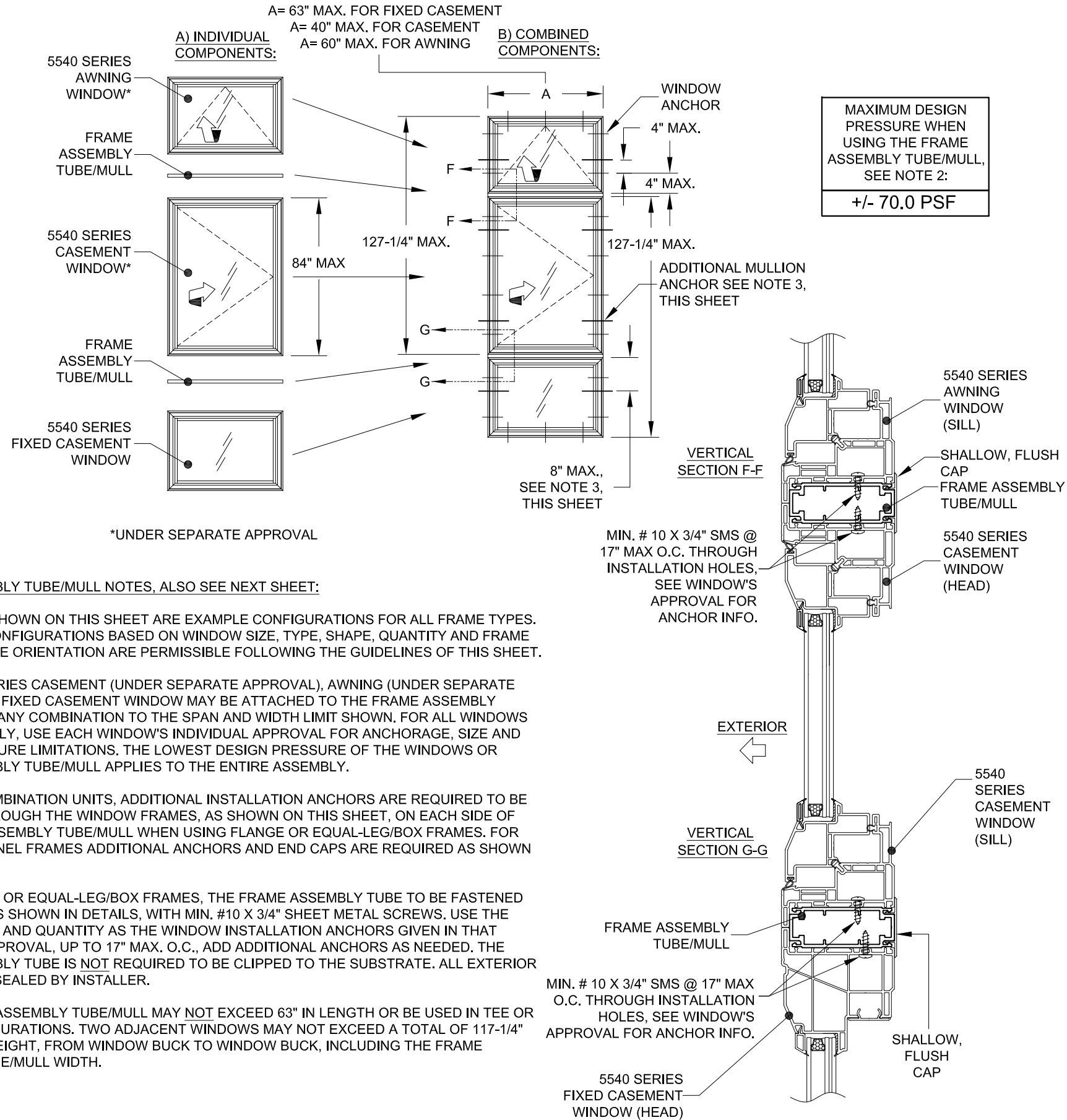


ILLUSTRATION OF AWNING-TO-CASEMENT-TO-FIXED CASEMENT (X/X/O)
(FLANGE FRAME WITH DIFFERENT 5540 SERIES PRODUCTS COMBINED)



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ALUM FIXED CASEMENT - DIAMOND GLASS		Date		02/04/25	
FRAME ASSEMBLY TUBE		By		JENS ROSOWSKI	
PW5540		DWG No.		5 OF 11	
Sheet		PW5540-DG		PW5540-DG	
Title		Date		02/04/25	
Desc.		By		JENS ROSOWSKI	
Series		DWG No.		PW5540-DG	

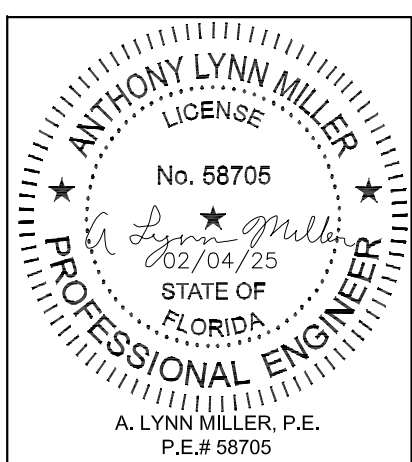
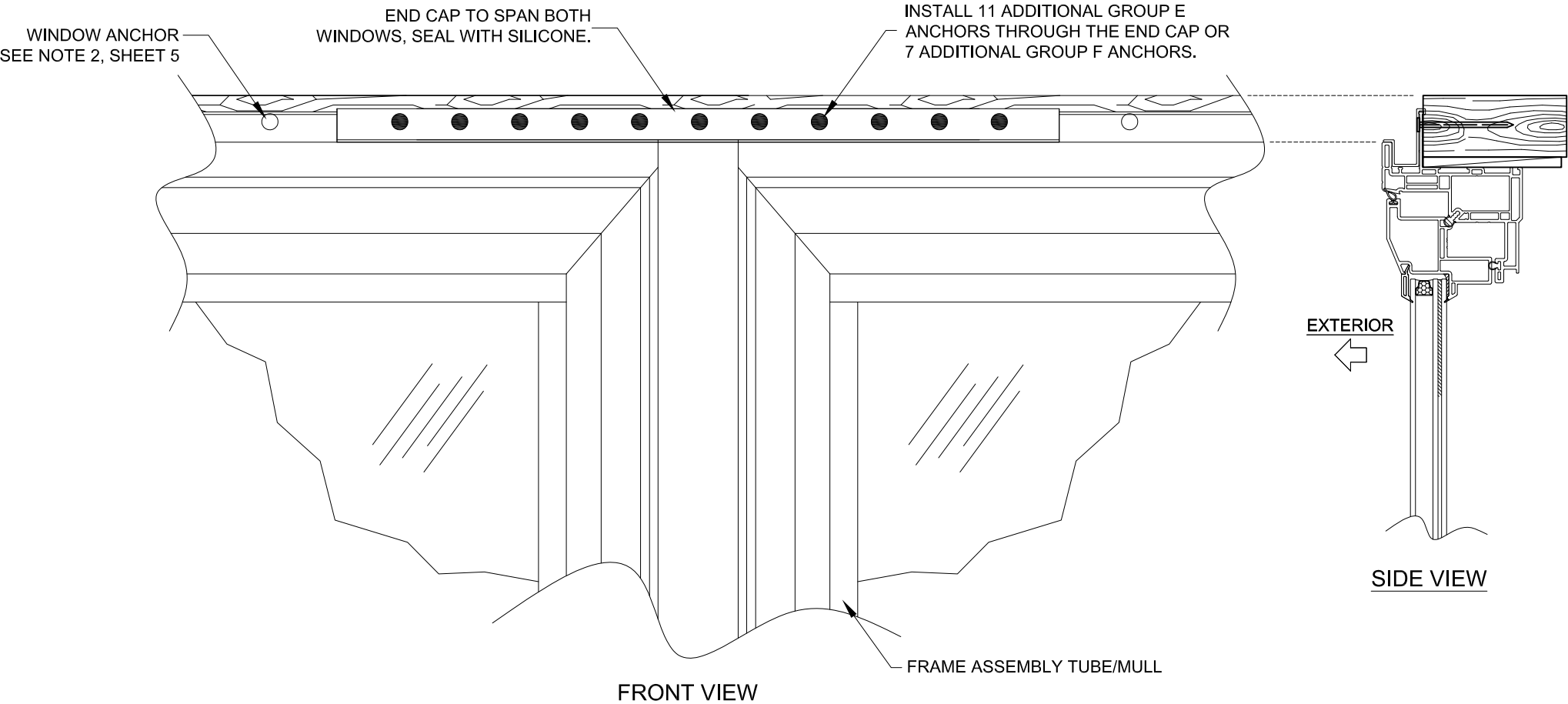


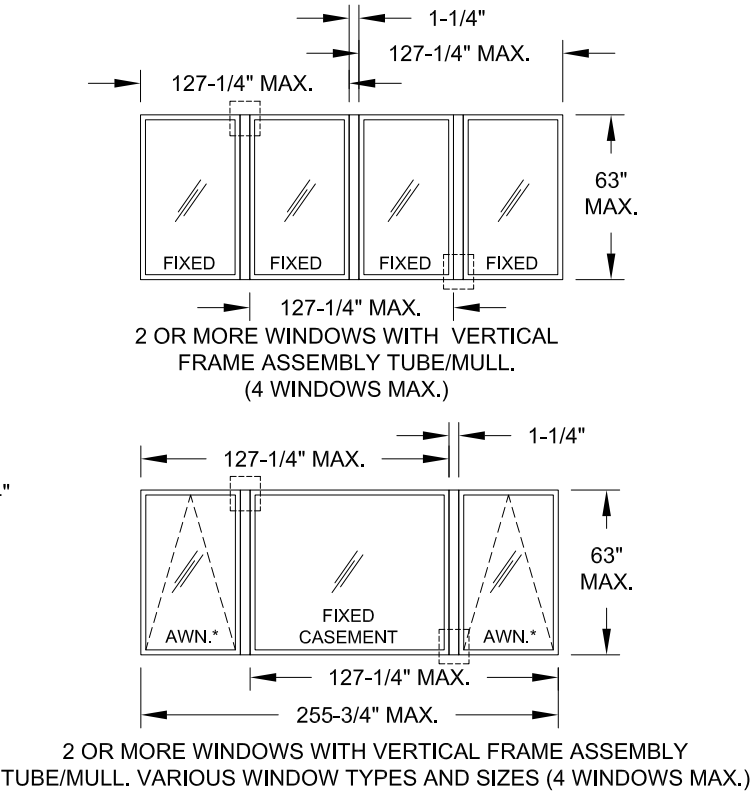
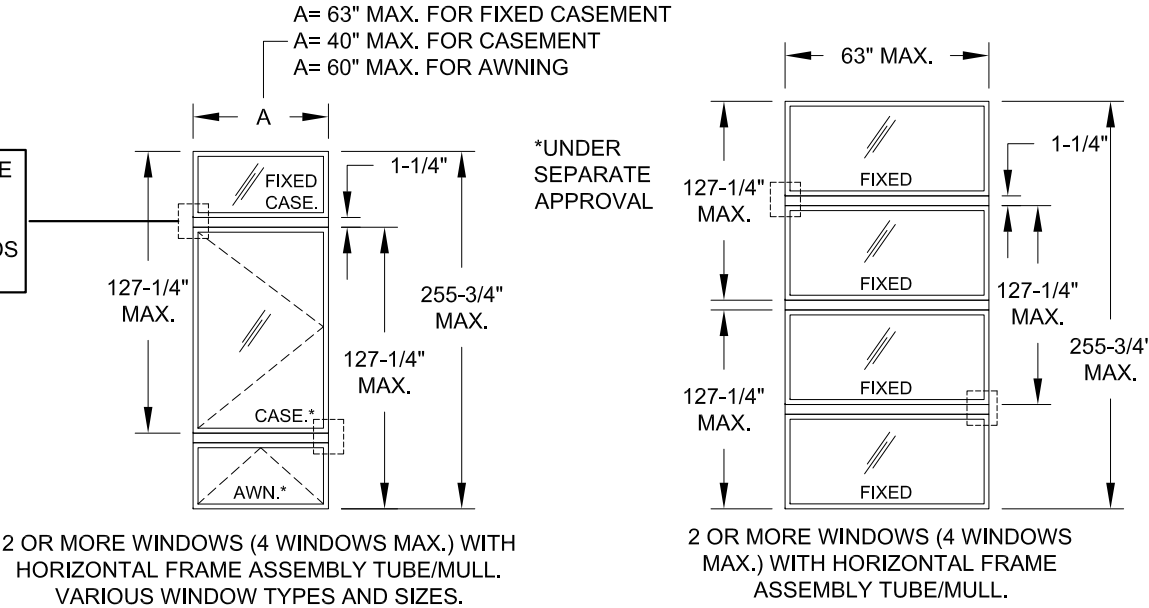
ILLUSTRATION OF END CAP USE WITH FIN AND J-CHANNEL FRAMES



- NOTES FOR FRAME ASSEMBLY TUBE END CAP:
- 1) APPLIES TO FIN OR J-CHANNEL FRAMES.
 - 2) REQUIRED AT HEADER/SILL OR JAMBS TO SEAL THE END OF THE FRAME ASSEMBLY TUBE.
 - 3) ALL WINDOW TYPES AND FRAME ASSEMBLY TUBE ORIENTATIONS APPLICABLE, SEE SHEET 5.
 - 4) END CAP MAY REQUIRE IN-FIELD TRIMMING. STANDARD LENGTH IS 14".

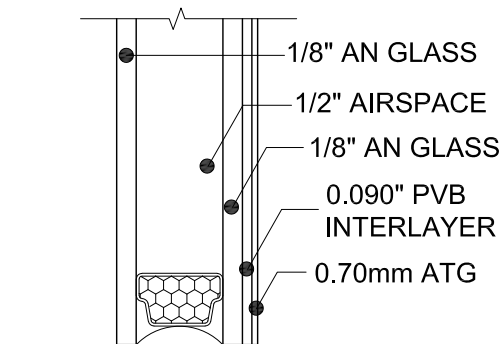
EXAMPLE CONFIGURATIONS WHEN USING THE FRAME ASSEMBLY TUBE/MULL. FOR TEES, CROSSES OR ASSEMBLIES WITH MORE THAN 4 UNITS, USE THE CLIPPED TUBE MULLION UNDER SEPARATE APPROVAL.

FRAME ASSEMBLY TUBE NOTE:
REFER TO SHEET 5 FOR THROUGH-FRAME ANCHORAGE AND THIS SHEET FOR NAIL FIN ANCHORAGE DETAILS TYP. AT ALL FRAME ASSEMBLY TUBE ENDS BOTH HORIZONTAL AND VERTICAL

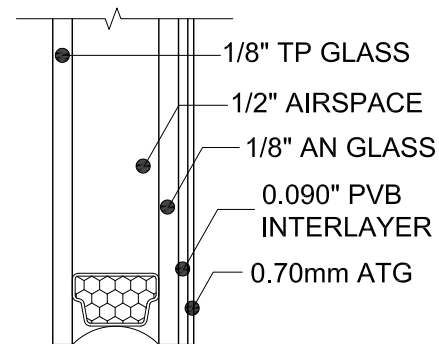


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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		ALUM FIXED CASEMENT - DIAMOND GLASS		FRAME ASSEMBLY TUBE	6 OF 11
PW5540		PW5540		PW5540	

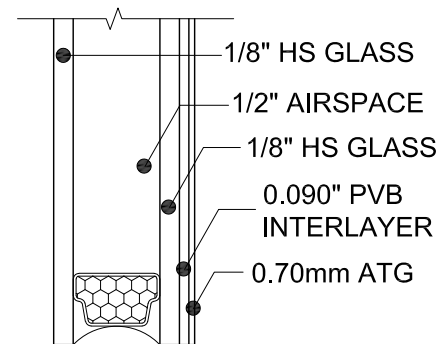
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LICENSE
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A. LYNN MILLER, P.E.
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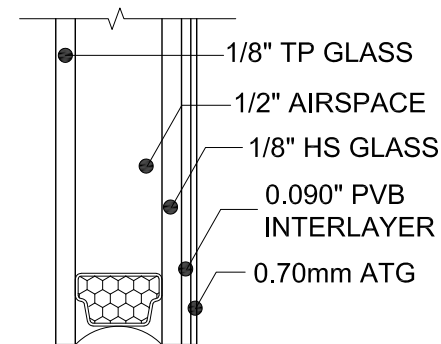
GLASS TYPE 1
7/8" NOM. GLASS STACK



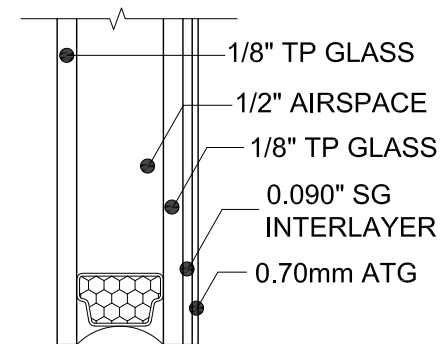
GLASS TYPE 2
7/8" NOM. GLASS STACK



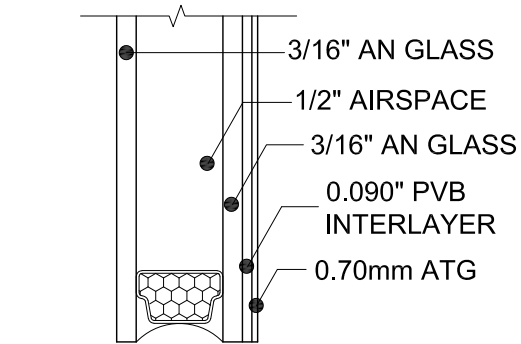
GLASS TYPE 3
7/8" NOM. GLASS STACK



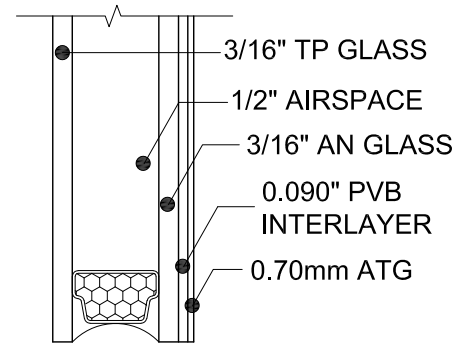
GLASS TYPE 4
7/8" NOM. GLASS STACK



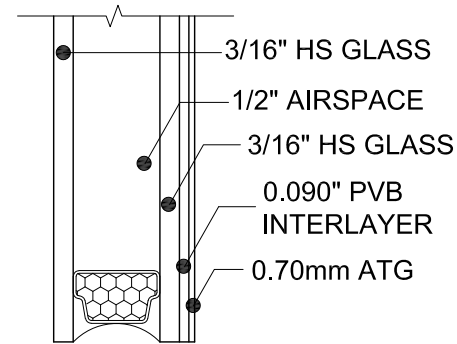
GLASS TYPE 5
7/8" NOM. GLASS STACK



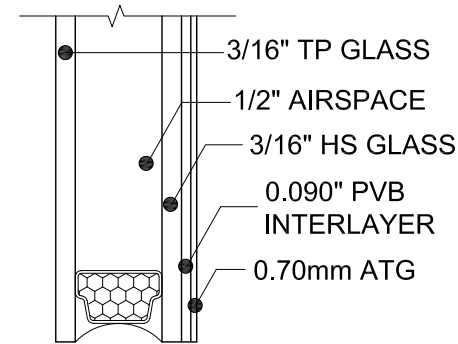
GLASS TYPE 6
1" NOM. GLASS STACK



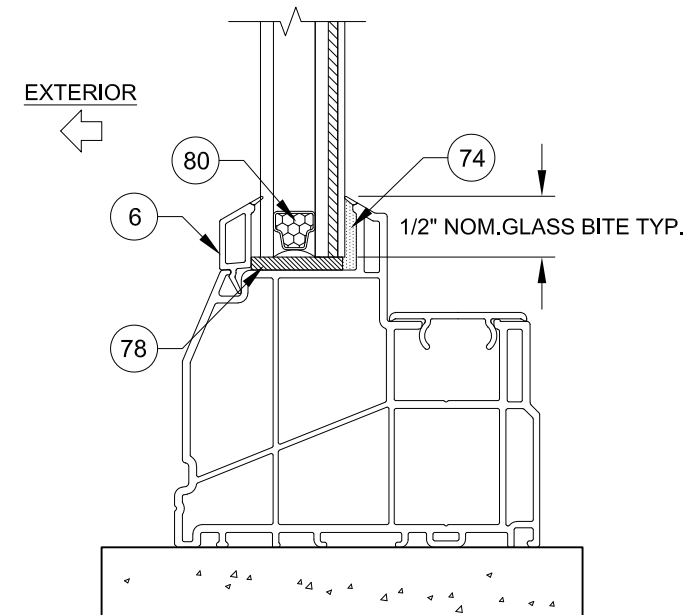
GLASS TYPE 7
1" NOM. GLASS STACK



GLASS TYPE 8
1" NOM. GLASS STACK



GLASS TYPE 9
1" NOM. GLASS STACK



TYP. GLAZING DETAIL

TABLE 3:

Glass Type	Description (Listed from Exterior to Interior)
1	7/8" Lami IG: 1/8" AN Cap - 1/2" Airspace - 1/8" AN - 0.090" PVB Interlayer - 0.70mm ATG
2	7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" AN - 0.090" PVB Interlayer - 0.70mm ATG
3	7/8" Lami IG: 1/8" HS Cap - 1/2" Airspace - 1/8" HS - 0.090" PVB Interlayer - 0.70mm ATG
4	7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" HS - 0.090" PVB Interlayer - 0.70mm ATG
5	7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" TP - 0.090" SG Interlayer - 0.70mm ATG
6	1" Lami IG: 3/16" AN Cap - 1/2" Airspace - 3/16" AN - 0.090" PVB Interlayer - 0.70mm ATG
7	1" Lami IG: 3/16" TP Cap - 1/2" Airspace - 3/16" AN - 0.090" PVB Interlayer - 0.70mm ATG
8	1" Lami IG: 3/16" HS Cap - 1/2" Airspace - 3/16" HS - 0.090" PVB Interlayer - 0.70mm ATG
9	1" Lami IG: 3/16" TP Cap - 1/2" Airspace - 3/16" HS - 0.090" PVB Interlayer - 0.70mm ATG

"AN" = ANNEALED
 "HS" = HEAT STRENGTHENED
 "TP" = TEMPERED
 "PVB" = 0.090" TROSIFOL PVB BY KURARAY AMERICA, INC.
 "SG" = 0.090" SENTRYGLAS INTERLAYER BY KURARAY AMERICA, INC.

! GLASS USED ABOVE 30 FEET IN THE HVHZ MUST HAVE A TEMPERED CAP.

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	ALUM FIXED CASEMENT - DIAMOND GLASS		Date	02/04/25
GLAZING DETAILS		Drawn By	JENS ROSOWSKI	
Series	PW5540	Sheet	7 OF 11	DWG No.
PW5540-DG				

TABLE 4:

Anchors Allowed: A, B, C, D or E		Design Pressure (+/-, psf)													Glass Type 1: 7/8" Lami IG: 1/8" AN Cap - 1/2" Airspace - 1/8" AN - 0.090" PVB Interlayer - 0.70mm ATG												
															Glass Type 2: 7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" AN - 0.090" PVB Interlayer - 0.70mm ATG												
		Long Side (in)																									
Max. O.C. 14-1/2"		53	56	59	62	65-3/16	68	71	74	77	80	83	86	87-3/16													
Short Side(in)	20	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70													
	22	+65/-70	+65/-70	+65/-70	+65/-68.4	+65/-66.2	+/-64.4	+/-62.8	+/-61.6	+/-60.3	+/-59.2	+/-58.3	+/-57.4	+/-57.1													
	24	+65/-70	+65/-68.2	+/-64.3	+/-60.7	+/-57.6	+/-55.3	+/-53.6	+/-52.2	+/-50.8	+/-49.7	+/-48.6	+/-47.7	+/-47.3													
	26	+65/-70	+65/-67	+/-61.7	+/-56.7	+/-53.6	+/-50.9	+/-48.6	+/-46.4	+/-45	+/-43.7	+/-42.7	+/-41.6	+/-41.2													
	28	+65/-70	+65/-67.1	+/-61.7	+/-56.3	+/-52.7	+/-49.5	+/-46.3	+/-44.3	+/-42.3	+/-40.3	+/-38.7	+/-37.3	+/-37.1													
	30	+65/-67.1	+65/-65.7	+/-62.5	+/-56.9	+/-53.3	+/-49.7	+/-46.3	+/-43.9	+/-41.2	+/-38.9	+/-36.9	+/-35.6	+/-35.3													
	32	+/-64.6	+/-63.2	+/-61.9	+/-57.8	+/-53.8	+/-50.2	+/-46.8	+/-44.1	+/-41.6	+/-38.9	+/-36.7	+/-35.3	+/-34.7													
	34	+/-62.5	+/-61	+/-59.7	+/-57.2	+/-54.2	+/-50.8	+/-47.3	+/-44.8	+/-42.3	+/-39.6																
	36	+/-60.7	+/-59.1	+/-57.7	+/-56.3	+/-53.3	+/-50.8	+/-47.7	+/-45	+/-42.8																	
	38	+/-59.2	+/-57.5	+/-56.1	+/-54.8	+/-52.4	+/-49.5	+/-47.2	+/-45																		
	40	+/-58	+/-56.2	+/-54.6	+/-52.7	+/-50.4	+/-48.2																				
	42	+/-56.9	+/-55	+/-53.1	+/-50.8	+/-48.4																					
	43-3/16	+/-56.4	+/-54.4	+/-52	+/-49.7	+/-47.3																					
	44	+/-56	+/-53.3	+/-50.8	+/-48.4																						
	46	+/-53.6	+/-51.1	+/-48.6				MAX. O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEET 3				MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4															
	48	+/-51.7	+/-49					APPLIES TO A, B, C OR D ANCHORS				APPLIES TO E ANCHORS															
50	+/-49.5	+/-46.8					14-1/2"				4"																
52	+/-47.5																										
53	+/-46.6																										

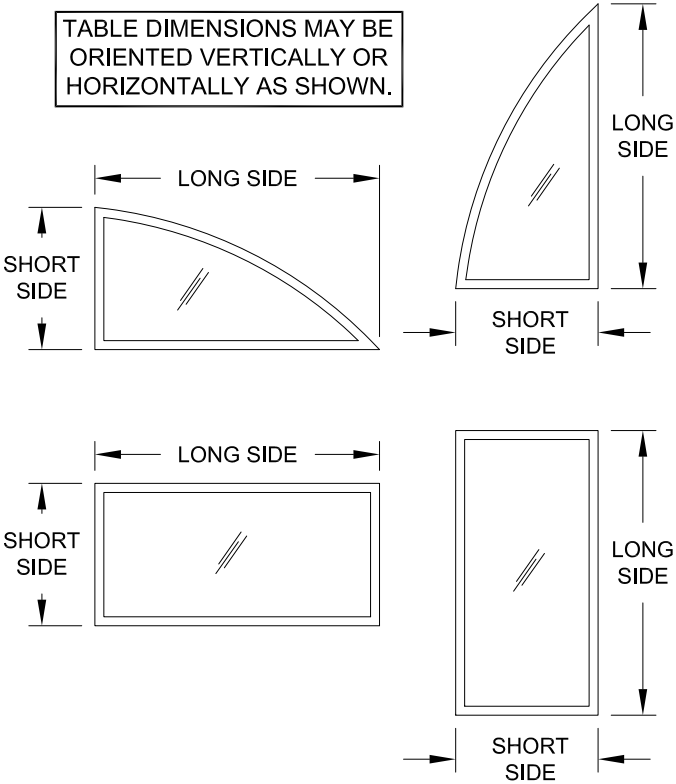
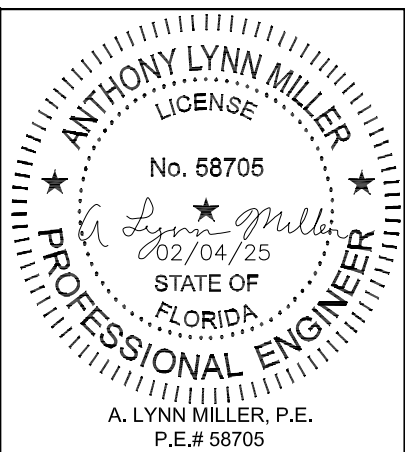


TABLE 5:

Anchors Allowed: A, B, C, D or E		Design Pressure (+/-, psf)														Glass Type 3: 7/8" Lami IG: 1/8" HS Cap - 1/2" Airspace - 1/8" HS - 0.090" PVB Interlayer - 0.70mm ATG Glass Type 4: 7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" HS - 0.090" PVB Interlayer - 0.70mm ATG												
		Long Side (in)																										
		62-3/8	66	69	72	73-3/16	75	78	81	84	87	90	93	96	99-3/16													
Short Side (in)	26	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70													
	28	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-68												
	30	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-68	+/-65.9	+/-63.7	+/-61.6												
	32	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.5	+/-66.2	+/-63.4	+/-60.5	+/-57.6												
	34	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.8	+/-66.6	+/-63.4	+/-59.4	+/-56.2												
	36	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-67.7	+/-64.4	+/-60.8	+/-56.9												
	38	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-68.8	+/-65.5	+/-62.3	+/-58.7												
	40	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.1	+/-66.2	+/-63.4													
	42	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-69.1															
	44	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70																
	46	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70																	
	48	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70																		
	50	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70	+/-70																				
	52	+/-70	+/-70	+/-70	+/-70	+/-70																						
	53-3/16	+/-70	+/-70	+/-70	+/-70	+/-69.8		MAX. O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEET 3				MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4																
	54	+/-70	+/-70	+/-70	+/-69.5																							
56	+/-70	+/-70	+/-69.8				APPLIES TO A, B, C OR D ANCHORS				APPLIES TO E ANCHORS																	
58	+/-70	+/-70																										
60	+/-70						14-1/2"				4"																	
62-3/8	+/-67.7																											

- NOTES:
- 1) BUCK DIMENSIONS SHOWN.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
- 3) FOR ARCHITECTURAL WINDOWS (SEE SHEET 2), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLE(S) ABOVE WHICH THE ARCHITECTURAL WINDOW WILL COMPLETELY FIT WITHIN.



PREPARED BY A. LYNN MILLER
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ALUM FIXED CASEMENT - DIAMOND GLASS
DESIGN PRESSURE TABLES

02/04/25
JENS ROSOWSKI

By
JENS ROSOWSKI

8 OF 11
PW5540

8 OF 11
PW5540-DG

TABLE 6:

Anchors Allowed: B, C, D		Design Pressure (+/-, psf)														Glass Type 5: 7/8" Lami IG: 1/8" TP Cap - 1/2" Airspace - 1/8" TP - 0.090" SG Interlayer - 0.70mm ATG													
		Long Side (in)																											
		62-3/8	66	69	72	73-3/16	75	81	84	87	90	93	96	99-3/16															
Short Side(in)	28	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130															
	30	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-127.4	+80/-123.1															
	32	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-126.7	+80/-121	+80/-115.2															
	34	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-126.7	+80/-118.8	+80/-112.3															
	36	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-128.9	+80/-121.7	+80/-113.8															
	38	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-124.6	+80/-117.4															
	40	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-126.7																
	42	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																	
	44	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																		
	46	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																			
	48	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																				
	50	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																						
	53-3/16	+80/-130	+80/-130	+80/-130	+80/-130	+80/-130																							
	54	+80/-130	+80/-130	+80/-130	+80/-130			MAX. O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEET 3					MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4																
	56	+80/-130	+80/-130	+80/-130				APPLIES TO B, C OR D ANCHORS					N/A																
	58	+80/-130	+80/-130					9-1/2"																					
	62-3/8	+80/-130																											

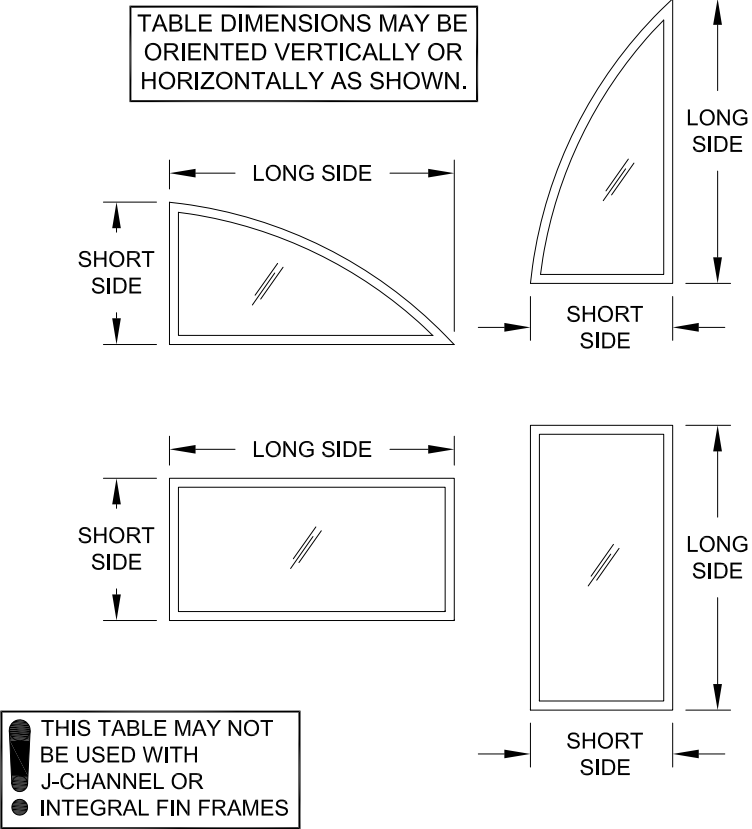


TABLE 7:

Anchors Allowed: A, B, C, D or E		Design Pressure (+/-, psf)																Glass Type 6: 1" Lami IG: 3/16" AN Cap - 1/2" Airspace - 3/16" AN - 0.090" PVB Interlayer - 0.70mm ATG															
																		Glass Type 7: 1" Lami IG: 3/16" TP Cap - 1/2" Airspace - 3/16" AN - 0.090" PVB Interlayer - 0.70mm ATG															
		Max. O.C. 14-1/2"		Long Side (in)																													
53	56			59	62	65-3/16	68	71	74	77	80	83	86	89	92	95	99-3/16																
Short Side(in)	26	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80																
	28	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79	+/-77.8															
	30	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77.6	+/-75.2	+/-73.6	+/-72.4	+/-71.3	+/-70.2																		
	32	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-76.5	+/-73.4	+/-71.3	+/-69.3	+/-67.5	+/-65.7																				
	34	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77.6	+/-73.4	+/-70.6	+/-67.9	+/-65																						
	36	+/-80	+/-80	+/-80	+/-80	+/-80	+/-75.8	+/-72.4	+/-69.1	+/-65.5																							
	38	+/-80	+/-80	+/-80	+/-80	+/-80	+/-75.2	+/-71.6	+/-68.2																								
	40	+/-80	+/-80	+/-80	+/-80	+/-79.9	+/-74.9																										
	42	+/-80	+/-80	+/-80	+/-80	+/-79.2																											
	43-3/16	+/-80	+/-80	+/-80	+/-80	+/-78.8																											
	44	+/-80	+/-80	+/-80	+/-80																												
	46	+/-80	+/-80	+/-80																													
	50	+/-80	+/-80																														
	53	+/-80																															

THIS TABLE MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

NOTES:
1) BUCK DIMENSIONS SHOWN.
2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
3) FOR ARCHITECTURAL WINDOWS (SEE SHEET 2), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLE(S) ABOVE WHICH THE ARCHITECTURAL WINDOW WILL COMPLETELY FIT WITHIN.

PREPARED BY A. LYNN MILLER
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ALUM FIXED CASEMENT - DIAMOND GLASS
DESIGN PRESSURE TABLES

By
JENS ROSOWSKI

Date
02/04/25

Series
PW5540

Desc.
DESIGN PRESSURE TABLES

No.
9 OF 11

DWG
PW5540-DG

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/04/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

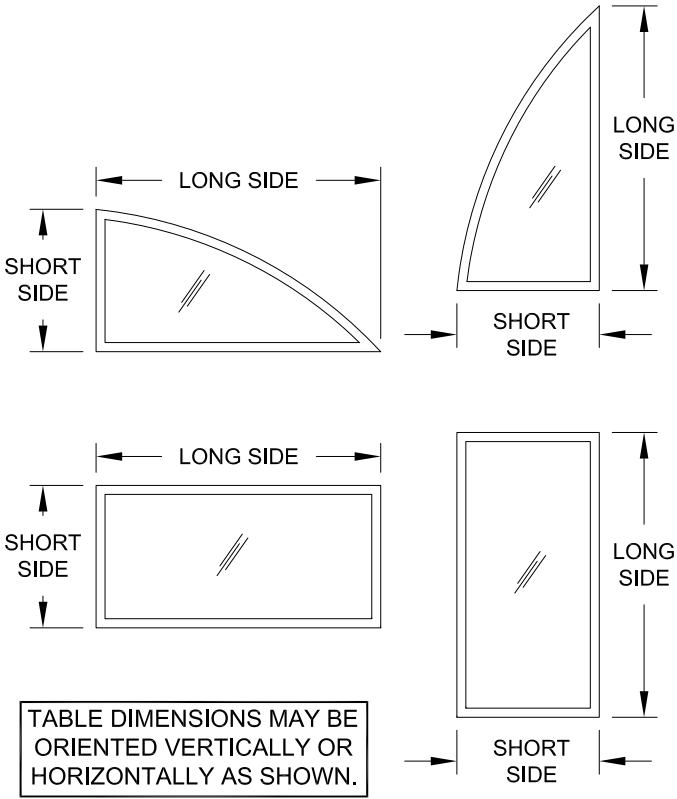
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

Anchors Allowed: B, C, D		Design Pressure (+/-, psf)																Glass Type 8: 1" Lami IG: 3/16" HS Cap - 1/2" Airspace - 3/16" HS - 0.090" PVB Interlayer - 0.70mm ATG		Glass Type 9: 1" Lami IG: 3/16" TP Cap - 1/2" Airspace - 3/16" HS - 0.090" PVB Interlayer - 0.70mm ATG	
		Long Side (in)																			
		70.5	74	78	82	86	90	94	97-3/16	98	102	106	110	114	118	122	127-3/16				
Short Side(in)	36	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80				
	38	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-78.8	+70/-76.7				
	40	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-77.4	+70/-74.9	+70/-73.4					
	42	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-76.7	+70/-74.2	+70/-72						
	44	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-79.9	+70/-75.6								
	46	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80									
	48	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80										
	50	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80											
	51-3/16	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80												
	52	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80													
	54	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80														
	56	+70/-80	+70/-80	+70/-80	+70/-80	+70/-80					MAX. O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEET 3			MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4							
	60	+70/-80	+70/-80	+70/-80	+70/-80																
	62	+70/-80	+70/-80	+70/-80							APPLIES TO B, C OR D ANCHORS			N/A							
	66	+70/-80	+70/-80																		
	70-1/2	+70/-80																			

THIS TABLE MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES

- NOTES:
- 1) BUCK DIMENSIONS SHOWN.
 - 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE SHORT OR LONG DIMENSION.
 - 3) FOR ARCHITECTURAL WINDOWS (SEE SHEET 2), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLE(S) ABOVE WHICH THE ARCHITECTURAL WINDOW WILL COMPLETELY FIT WITHIN.



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ALUM FIXED CASEMENT - DIAMOND GLASS

DESIGN PRESSURE TABLES

02/04/25

By JENS ROSOWSKI

No. 10 OF 11

Sheet PW5540

DWG PW5540-DG

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LICENSE
No. 58705
02/04/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

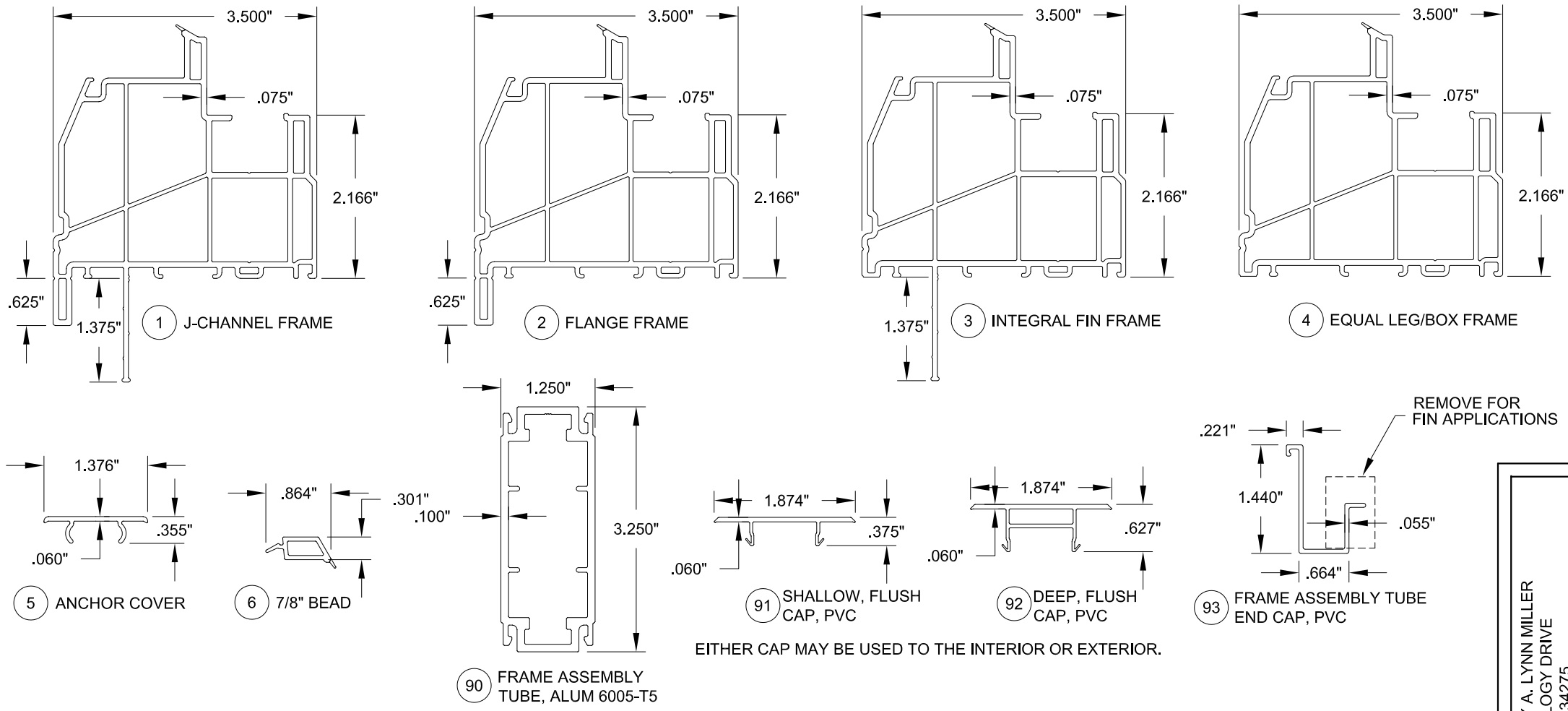
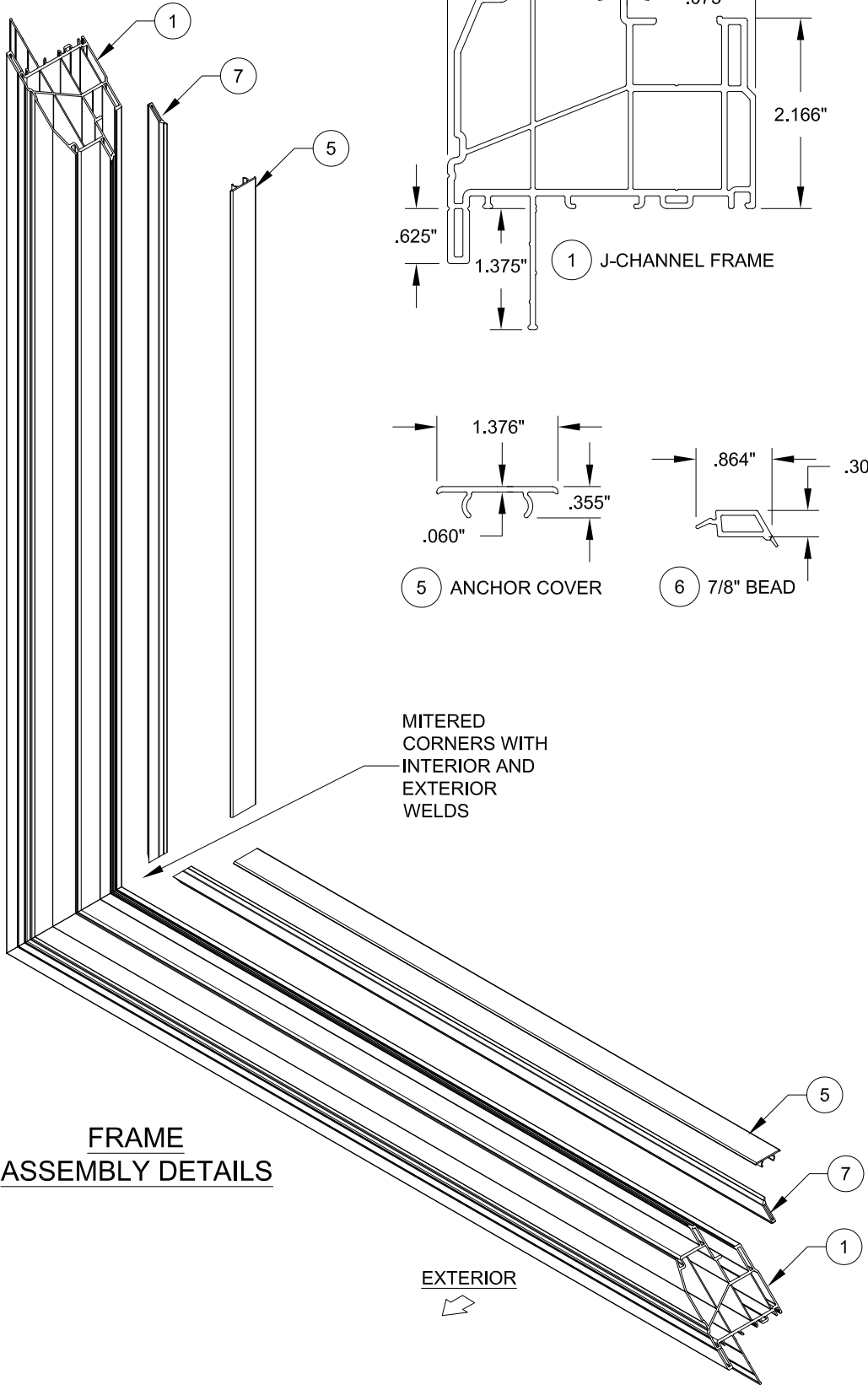


TABLE 9:

#	Part #	Description	Material
1	620139	J-channel Frame	PVC
2	620140	Flange Frame	PVC
3	620141	Integral Fin Frame	PVC
4	620142	Equal Leg/Box Frame	PVC
5	620133	Anchor Cover	PVC
6	720136	7/8" IG Glazing Bead	PVC
74		Backbedding, GE 7700 or Dow 791 or Dow 983	Silicone
78	71646N	Setting Block (7/8" x 1" x 1/8"), 85 +/- 5 duro.	PVC
80	Varies	TPS, SuperSpacer or Metal Spacer	Varies
90	20160A	Frame Assembly Tube	Alum. 6005-T5
91	20177	Shallow Flush Cap	PVC
92	20178	Deep Fush Cap	PVC
93	20132	Frame Assembly Tube End Cap	PVC

NOTES:
1) SOME PARTS NOT SHOWN FOR CLARITY.
2) J-CHANNEL FRAME SHOWN, PART #1. OTHER FRAME TYPES APPLY.

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ALUM FIXED CASEMENT - DIAMOND GLASS
BOM & EXTRUSIONS

02/04/25
Date

JENS ROSOWSKI
By

11 OF 11
DWG No.

PW5540
Sheet

PW5540-DG
Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/04/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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