

SERIES PW5540 WITH TRITON GLASS
IMPACT RESISTANT, VINYL CASEMENT PICTURE WINDOW

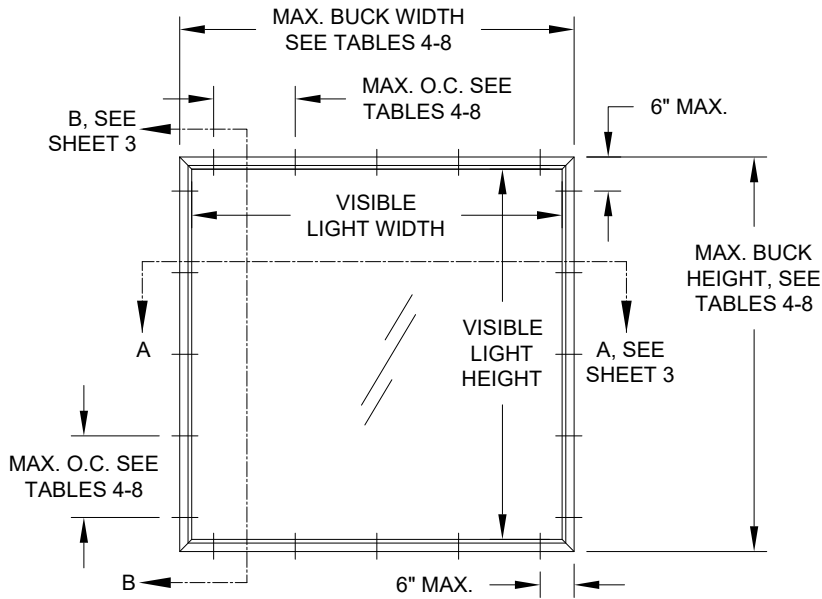
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS. FOR INSULATED GLASS INSTALLATIONS ABOVE 30' IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST TEMPERED.
- 3) 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 AND SECURED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER, (EOR) OR ARCHITECT OF RECORD, (AOR).
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE EMBEDMENT. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. FOR INTEGRAL FIN FRAMES INSTALL SHIMS AT MAX. 18" O.C.
- 6) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL/CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL/ CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 7) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS 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.
- 8) FRAME FLANGES OR INTEGRAL FINES MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

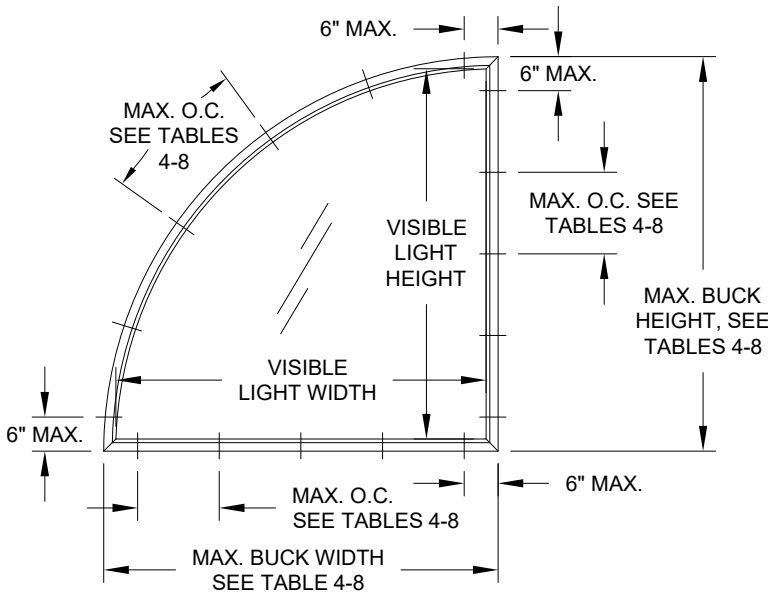
GENERAL NOTES & ELEVATIONS.....	1
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WHERE THE PRODUCT WILL BE INSTALLED WITHIN 3,000 FEET OF A SALTWATER COASTLINE, IT MUST COMPLY WITH SECTION 1711 OF THE FBC, BUILDING OR R332 OF THE FBC, RESIDENTIAL.

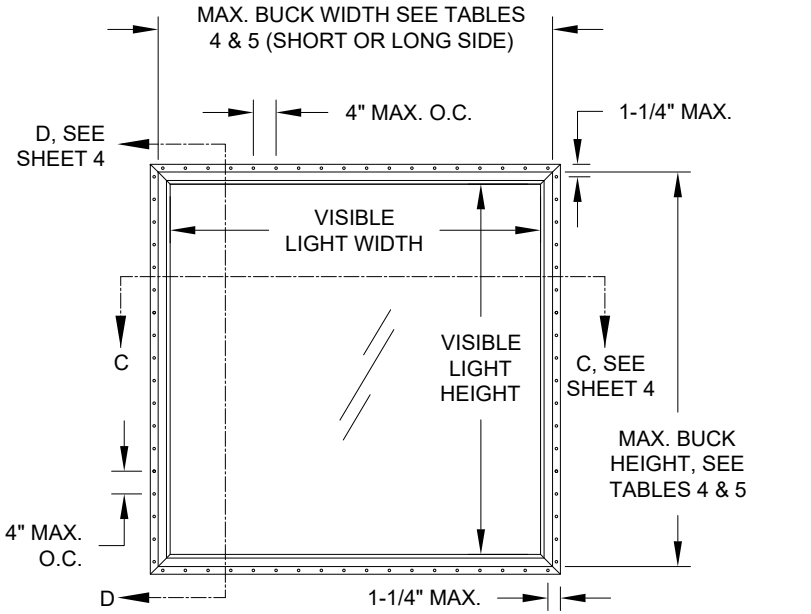
FLORIDA PRODUCT APPROVAL #5012



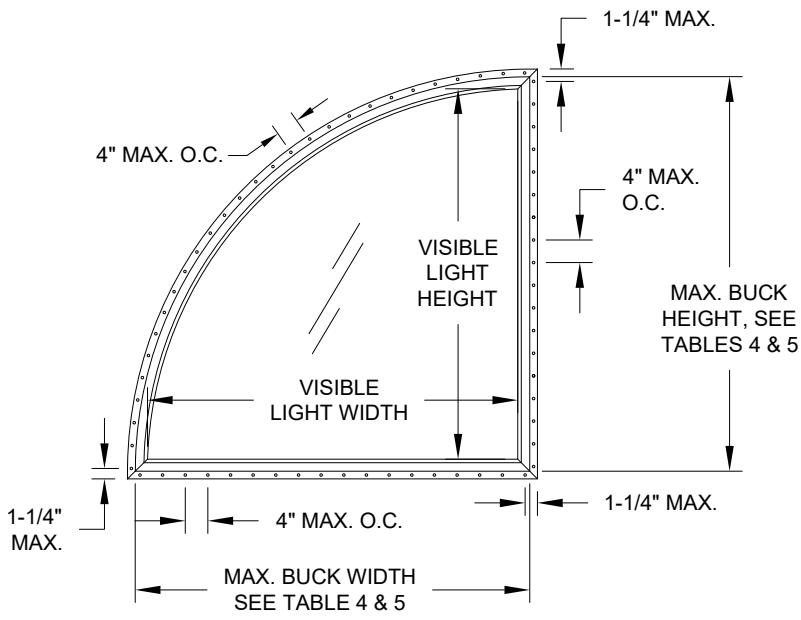
TYP. EQUAL-LEG/BOX & FLANGE FRAME (90° CORNERS)



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



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



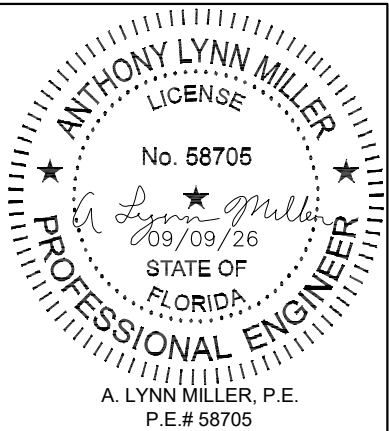
TYP. INTEGRAL FIN & J-CHANNEL FRAME (CURVED OR ANGLED CORNERS) (ANCHORED THROUGH NAIL FIN)

DESIGN PRESSURE RATING
SEE TABLES 4-8

WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
LARGE AND SMALL MISSILE
IMPACT RESISTANT
MISSILE LEVEL D, WIND ZONE 4

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		VINYL CASEMENT PICTURE WINDOW		ELEVATION & GENERAL NOTES		1 OF 11	
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GLASS USED ABOVE 30 FEET IN THE HVHZ MUST HAVE A TEMPERED CAP.

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

TABLE 1: ANCHORS INSTALLED THROUGH FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS Carbon Steel or 18-8, 316, 410 SS	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 Carbon Steel or 18-8, 316, 410 SS	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" 410 SS Crete-Flex	Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" 304 SS 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" 410 SS Crete-Flex	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" 410 SS Crete-Flex	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	1/4" 304 SS Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
		Grouted CMU, (ASTM C-90)	2"	2"

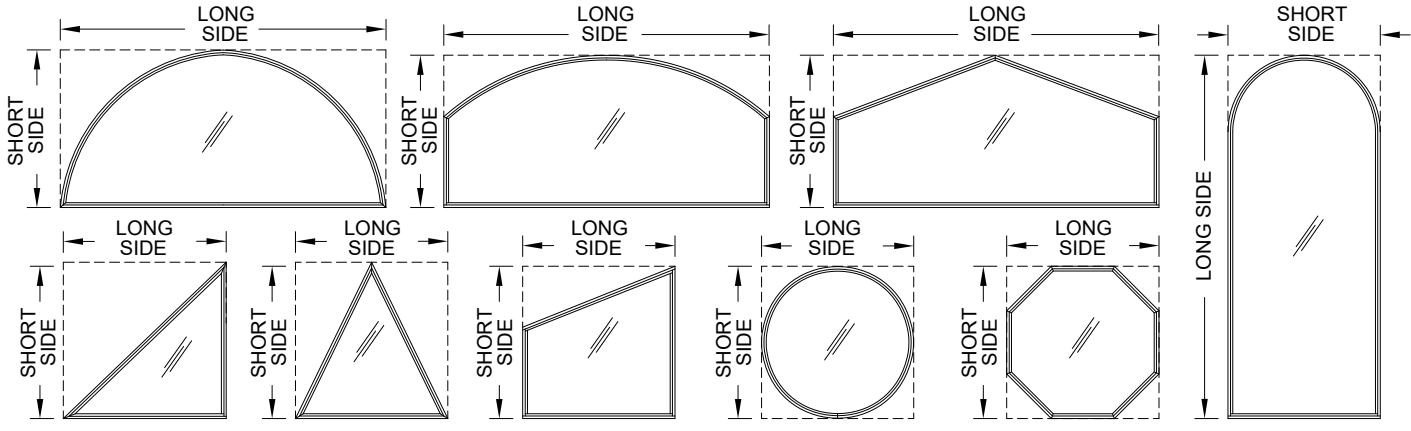
- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) ALL SCREWHEAD TYPES ARE APPLICABLE.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
4) IF COMBINING ANCHOR TYPES FROM DIFFERENT ANCHOR GROUPS ON THE SAME UNIT, THE GREATER ANCHOR QUANTITY FROM EITHER GROUP SHALL BE USED FOR THE ENTIRE UNIT.
5) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

TABLE 2: ANCHORS INSTALLED THROUGH INTEGRAL FIN

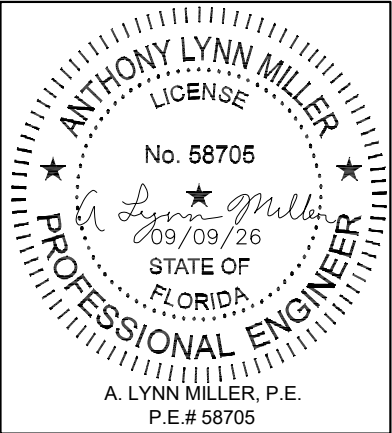
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
	2-1/2" Ring-shank Roofing Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
	#10 Trusshead SMS Carbon Steel or 18-8, 316 or 410 SS	Southern Pine (SG=0.55)	1/2"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.100"
		Steel Stud, Gr. 33	3/8"	0.0451" (18 Ga.)
		Steel, A36	3/8"	0.050"
	#12 SMS Carbon Steel or 18-8, Flathead or Panhead	Southern Pine (SG=0.55)	9/16"	1-3/8"
		Aluminum, 6063-T5	3/8"	0.100"
		Steel Stud, Gr. 33	3/8"	0.0451" (18 Ga.)
		Steel, A36	3/8"	0.050"

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) ALL SCREWHEAD TYPES ARE APPLICABLE.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.

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.



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	VINYL CASEMENT PICTURE WINDOW		DWG No.	PW5540-LM-HVHZ-TRTN
	ANCHOR & FRAME OPTIONS		Sheet	2 OF 11
PW5540				

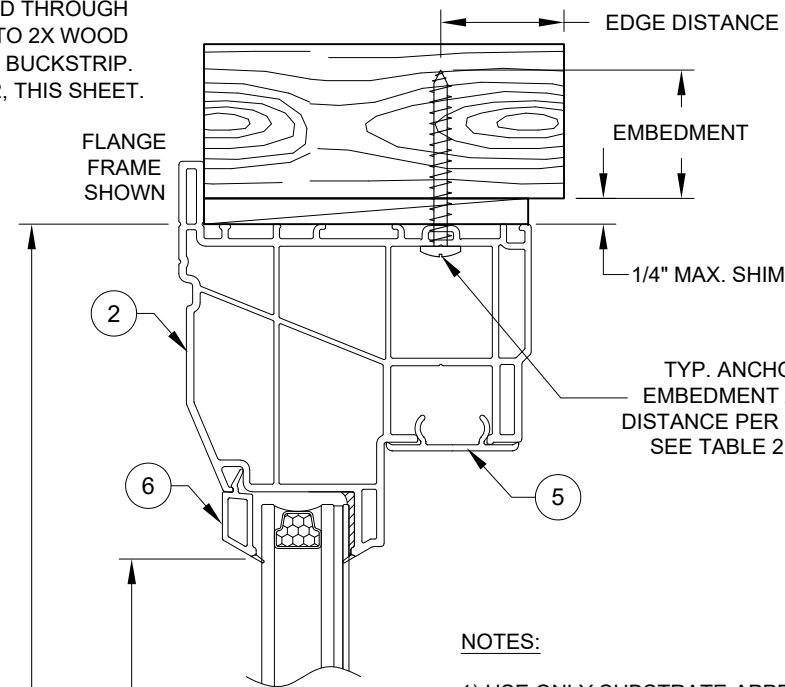


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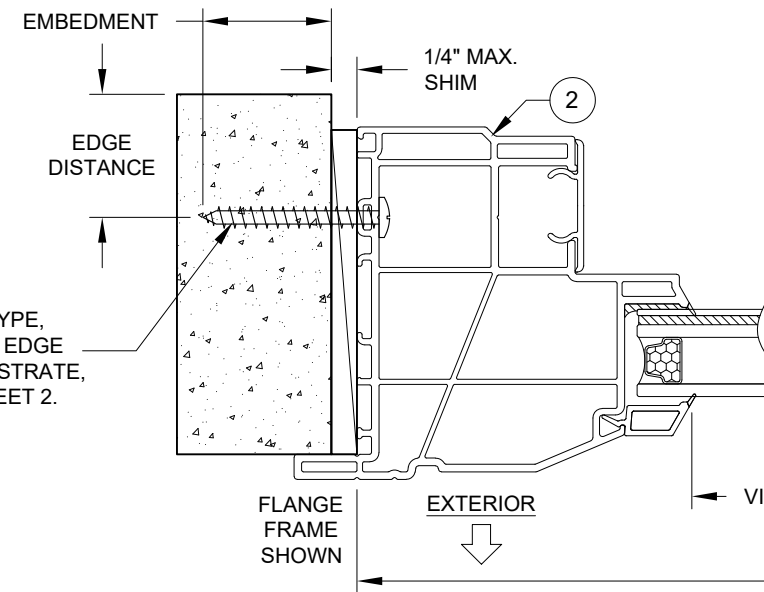
INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

INSTALLATION
OPTION 1

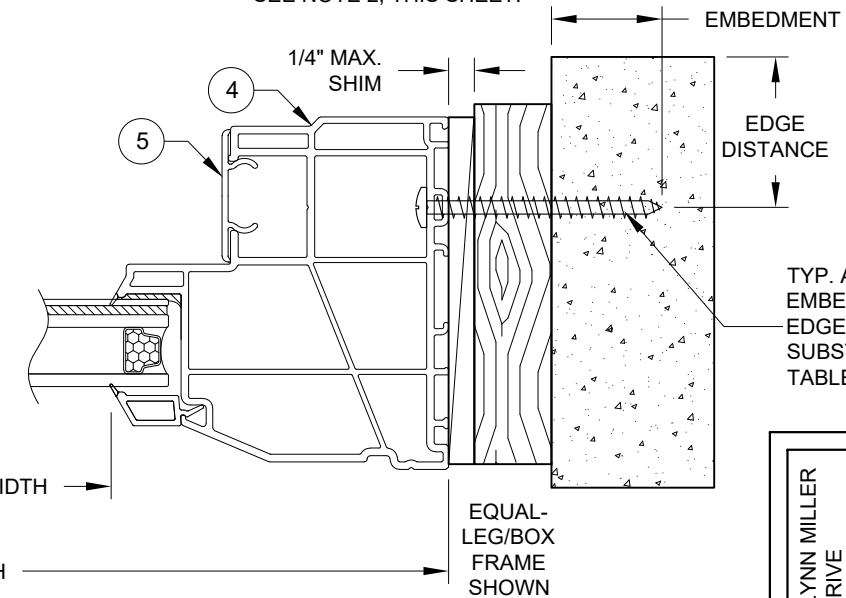
ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.



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.



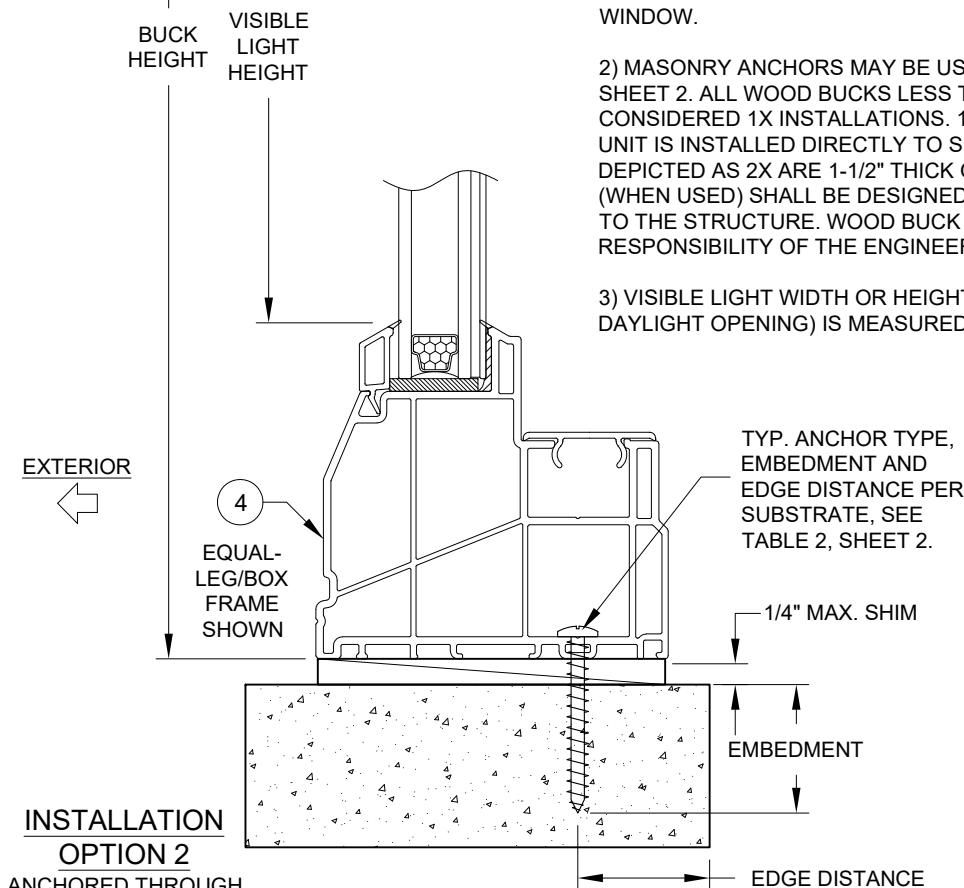
TYP. ANCHOR TYPE,
EMBEDMENT AND
EDGE DISTANCE PER
SUBSTRATE, SEE
TABLE 2, SHEET 2.

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.

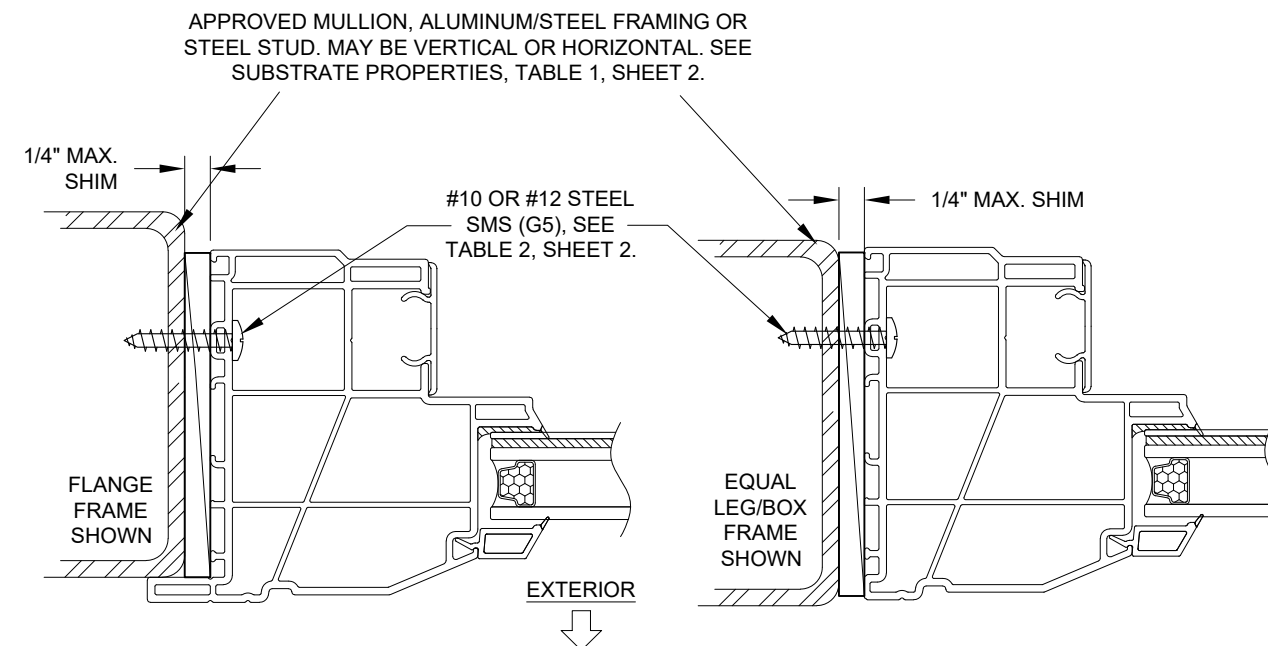


INSTALLATION
OPTION 2

ANCHORED THROUGH
FRAME DIRECTLY INTO
CONCRETE/CMU.

VERTICAL SECTION B-B

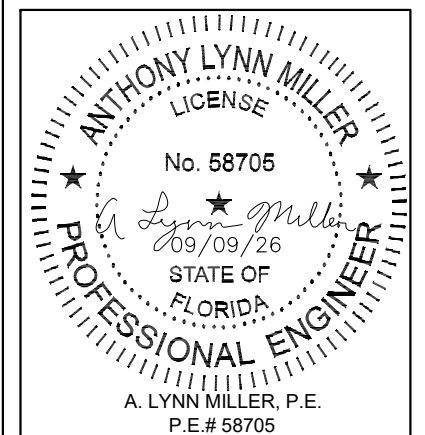
HORIZONTAL SECTION A-A



INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

INSTALLATION OPTION 4
ANCHORED THROUGH FRAME INTO METAL

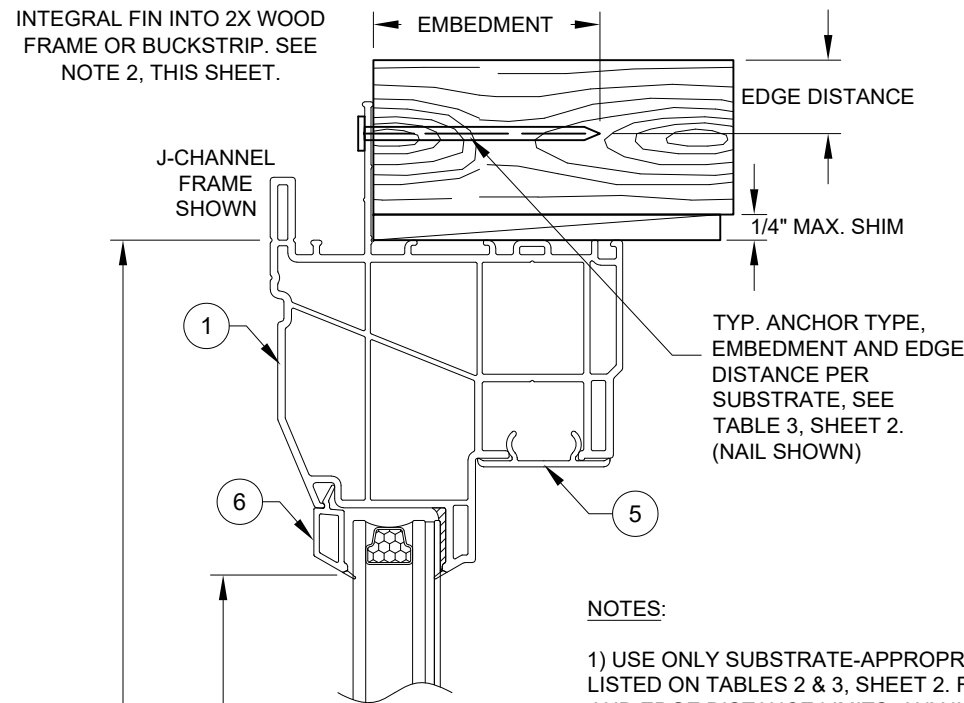
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INSTALLATION DETAILS FOR INTEGRAL FIN & J-CANNEL FRAMES

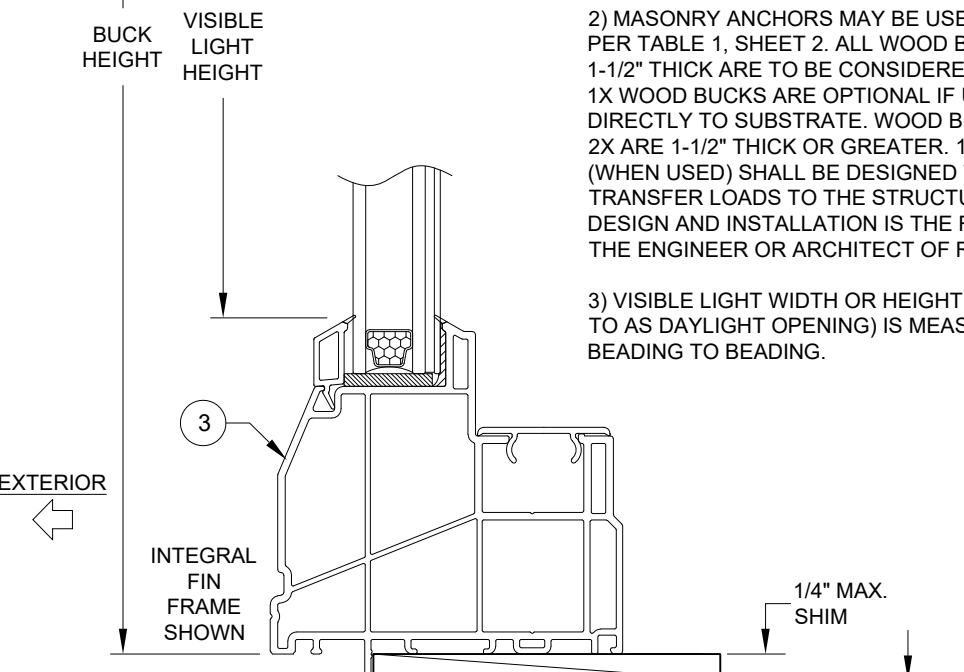
INSTALLATION OPTION 5

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.

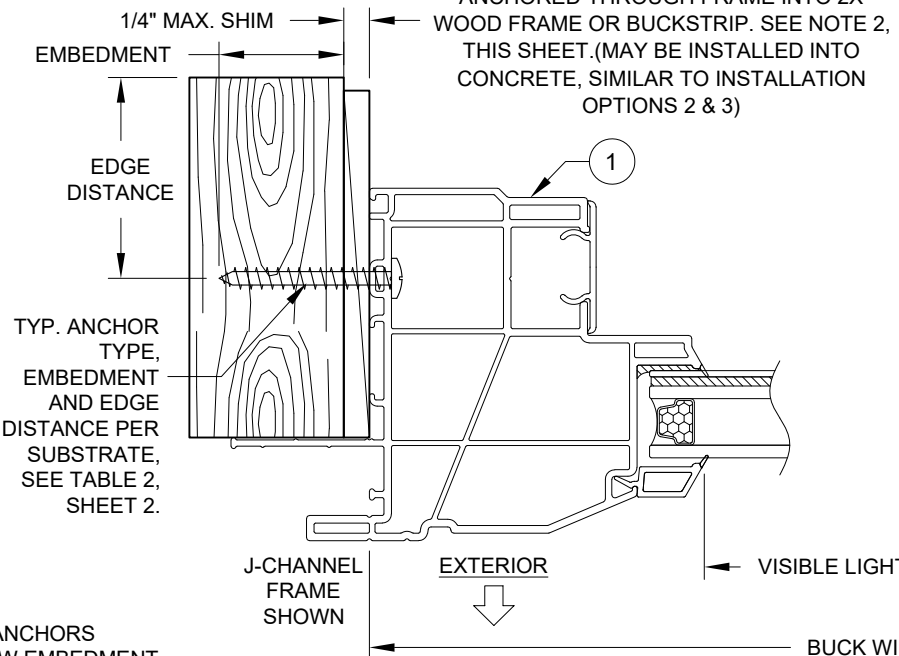


INSTALLATION OPTION 5

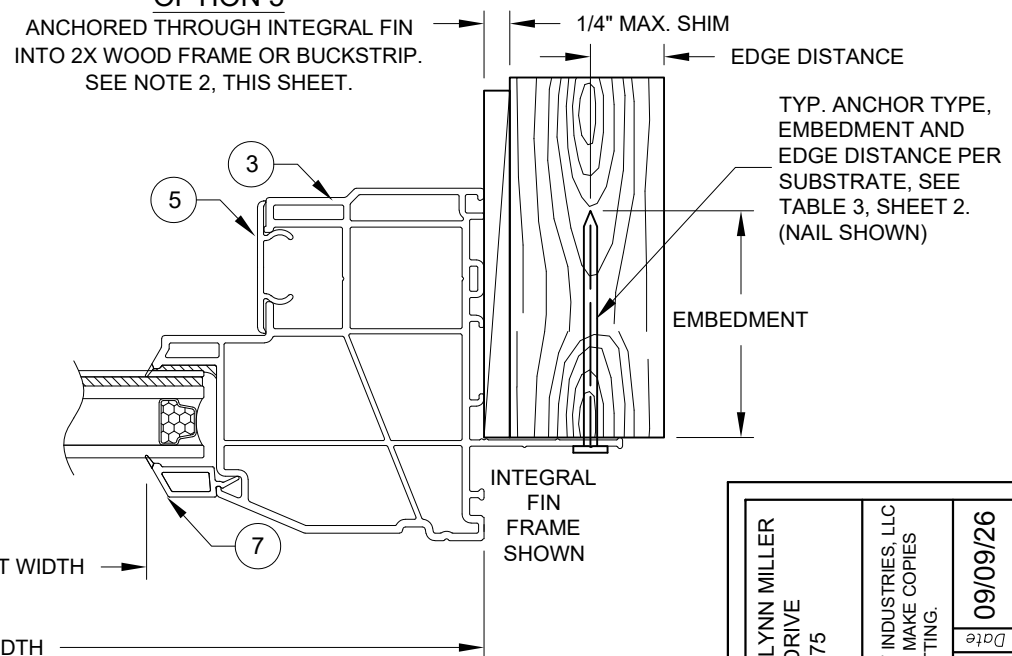
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.

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)

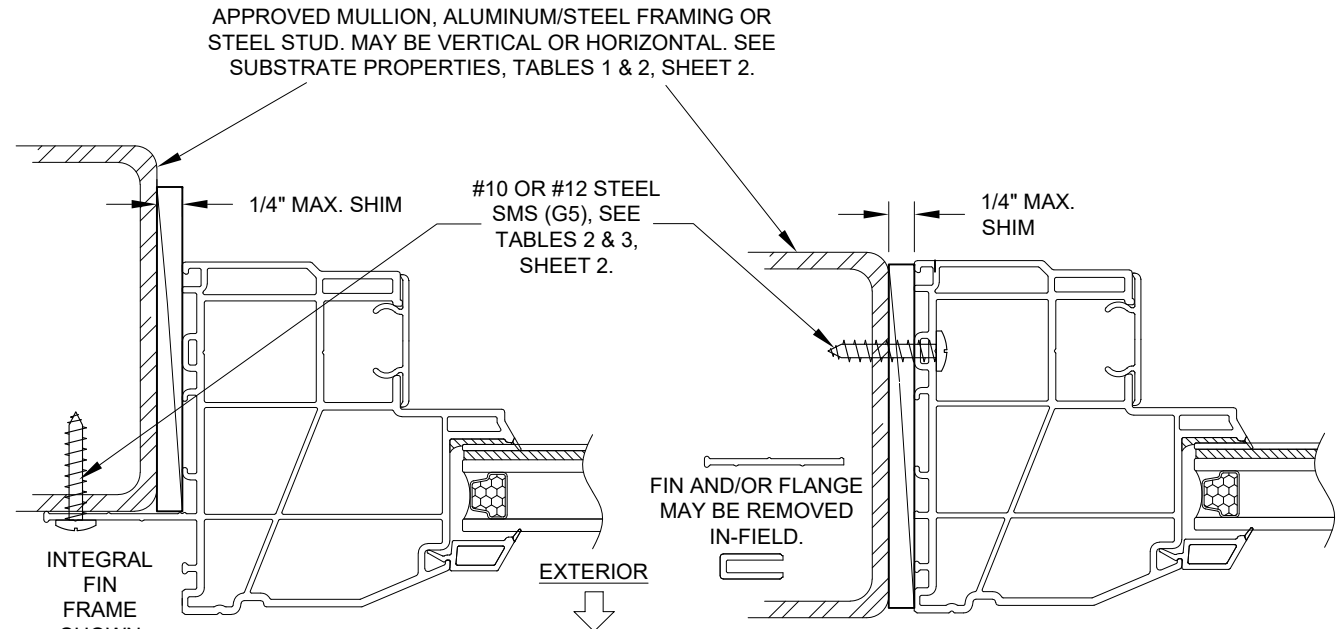


INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. SEE NOTE 2, THIS SHEET.



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		PW5540		Sheet		Title		Desc.	

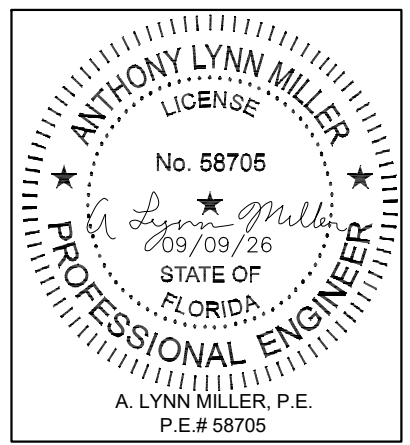


ILLUSTRATION OF FIXED CASEMENT-
TO-FIXED CASEMENT (OO)
(EQUAL LEG/BOX FRAME WITH IDENTICAL PRODUCTS COMBINED)

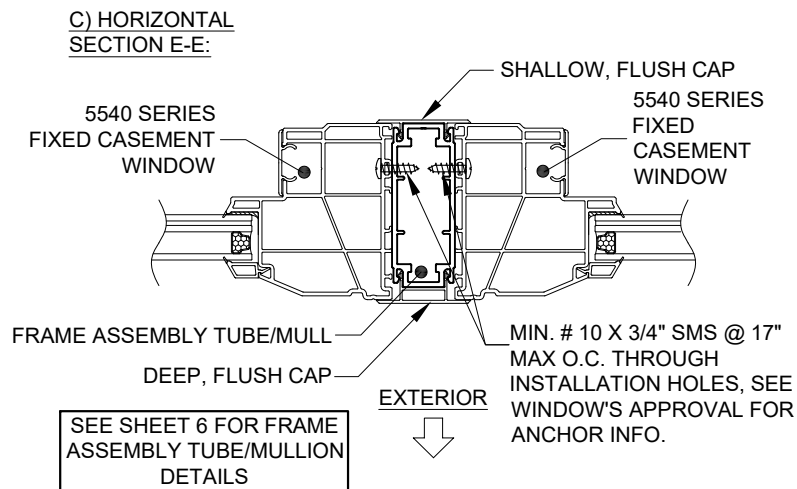
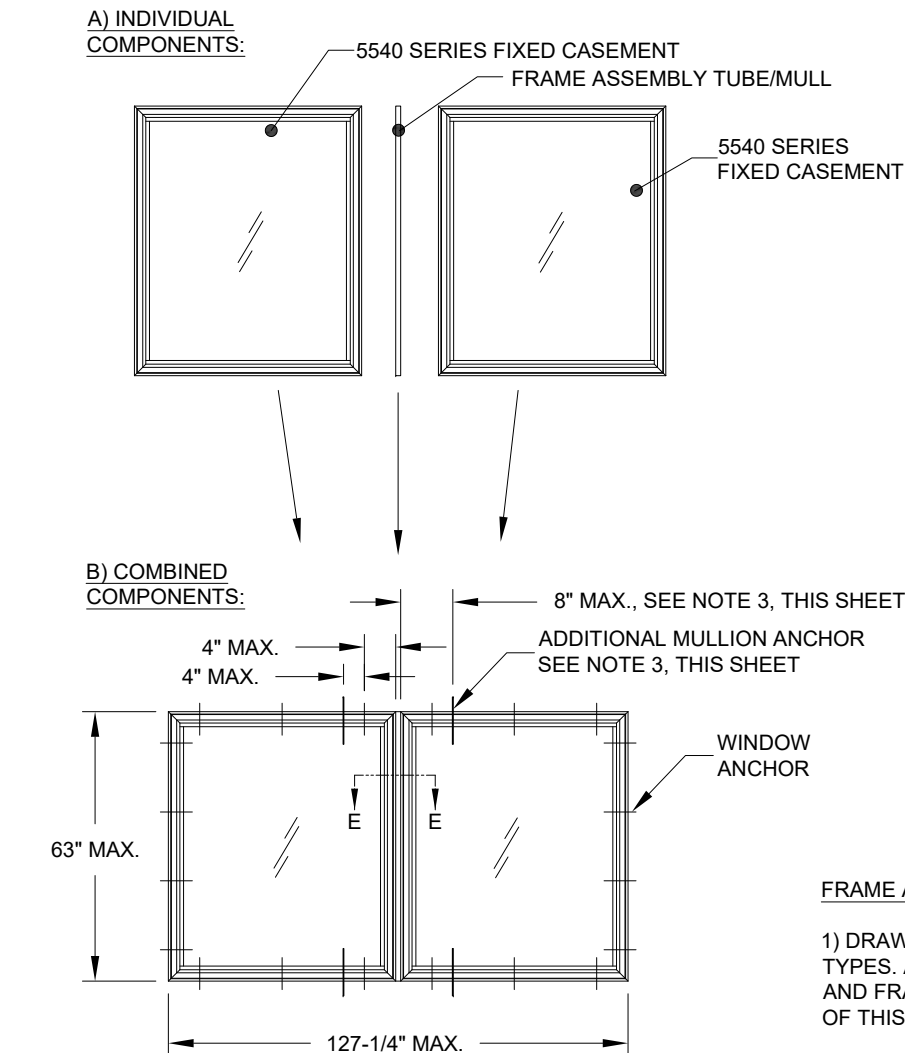
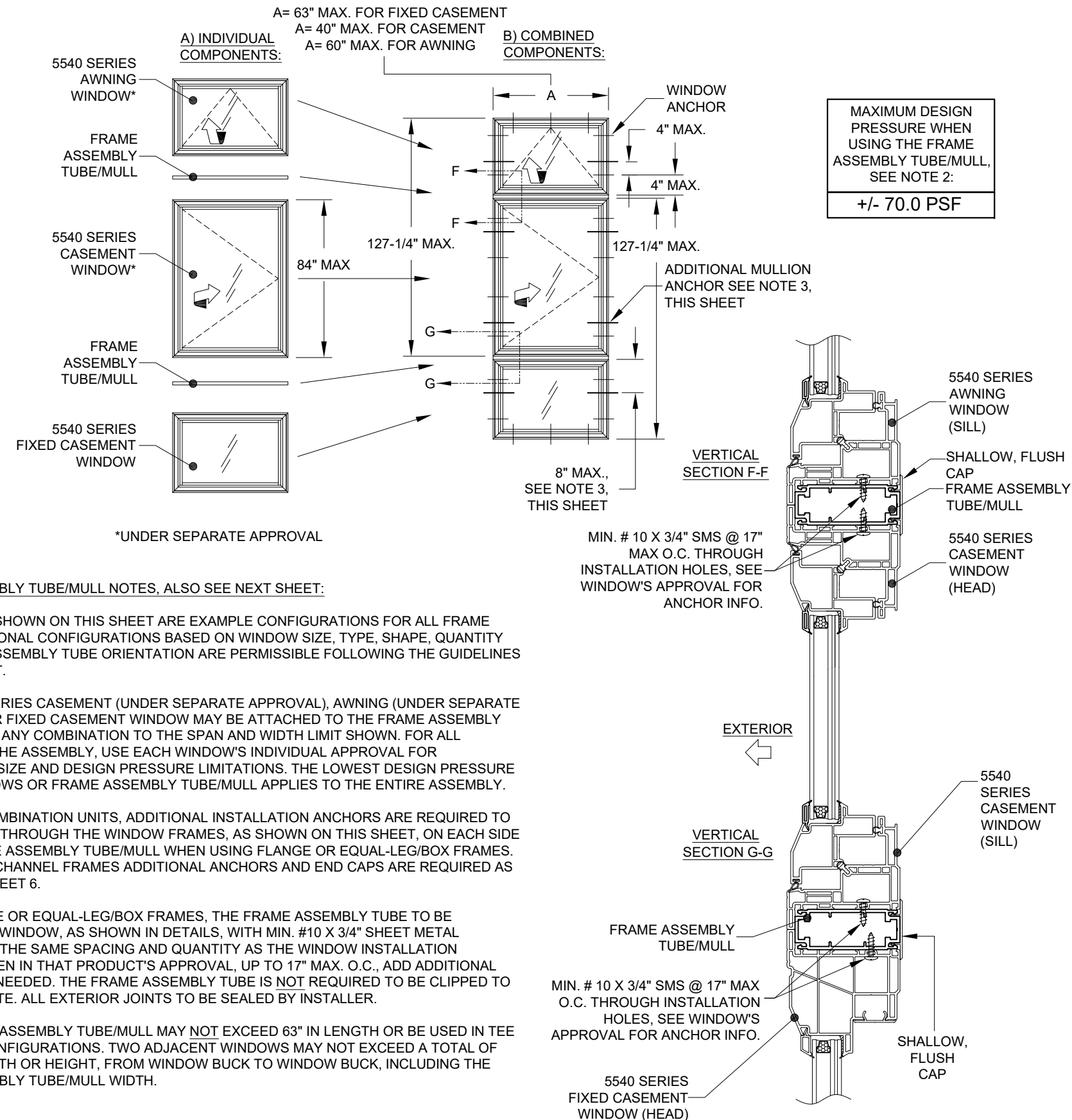


ILLUSTRATION OF AWNING-TO-CASEMENT-TO-FIXED CASEMENT (X/X/O)
(FLANGE FRAME WITH DIFFERENT 5540 SERIES PRODUCTS COMBINED)



FRAME ASSEMBLY TUBE/MULL NOTES, ALSO SEE NEXT SHEET:

1) DRAWINGS SHOWN ON THIS SHEET ARE EXAMPLE CONFIGURATIONS FOR ALL FRAME TYPES. ADDITIONAL CONFIGURATIONS BASED ON WINDOW SIZE, TYPE, SHAPE, QUANTITY AND FRAME ASSEMBLY TUBE ORIENTATION ARE PERMISSIBLE FOLLOWING THE GUIDELINES OF THIS SHEET.

2) ANY 5540-SERIES CASEMENT (UNDER SEPARATE APPROVAL), AWNING (UNDER SEPARATE APPROVAL) OR FIXED CASEMENT WINDOW MAY BE ATTACHED TO THE FRAME ASSEMBLY TUBE/MULL, IN ANY COMBINATION TO THE SPAN AND WIDTH LIMIT SHOWN. FOR ALL WINDOWS IN THE ASSEMBLY, USE EACH WINDOW'S INDIVIDUAL APPROVAL FOR ANCHORAGE, SIZE AND DESIGN PRESSURE LIMITATIONS. THE LOWEST DESIGN PRESSURE OF THE WINDOWS OR FRAME ASSEMBLY TUBE/MULL APPLIES TO THE ENTIRE ASSEMBLY.

3) FOR ALL COMBINATION UNITS, ADDITIONAL INSTALLATION ANCHORS ARE REQUIRED TO BE INSTALLED THROUGH THE WINDOW FRAMES, AS SHOWN ON THIS SHEET, ON EACH SIDE OF THE FRAME ASSEMBLY TUBE/MULL WHEN USING FLANGE OR EQUAL-LEG/BOX FRAMES. FOR FIN OR J-CHANNEL FRAMES ADDITIONAL ANCHORS AND END CAPS ARE REQUIRED AS SHOWN ON SHEET 6.

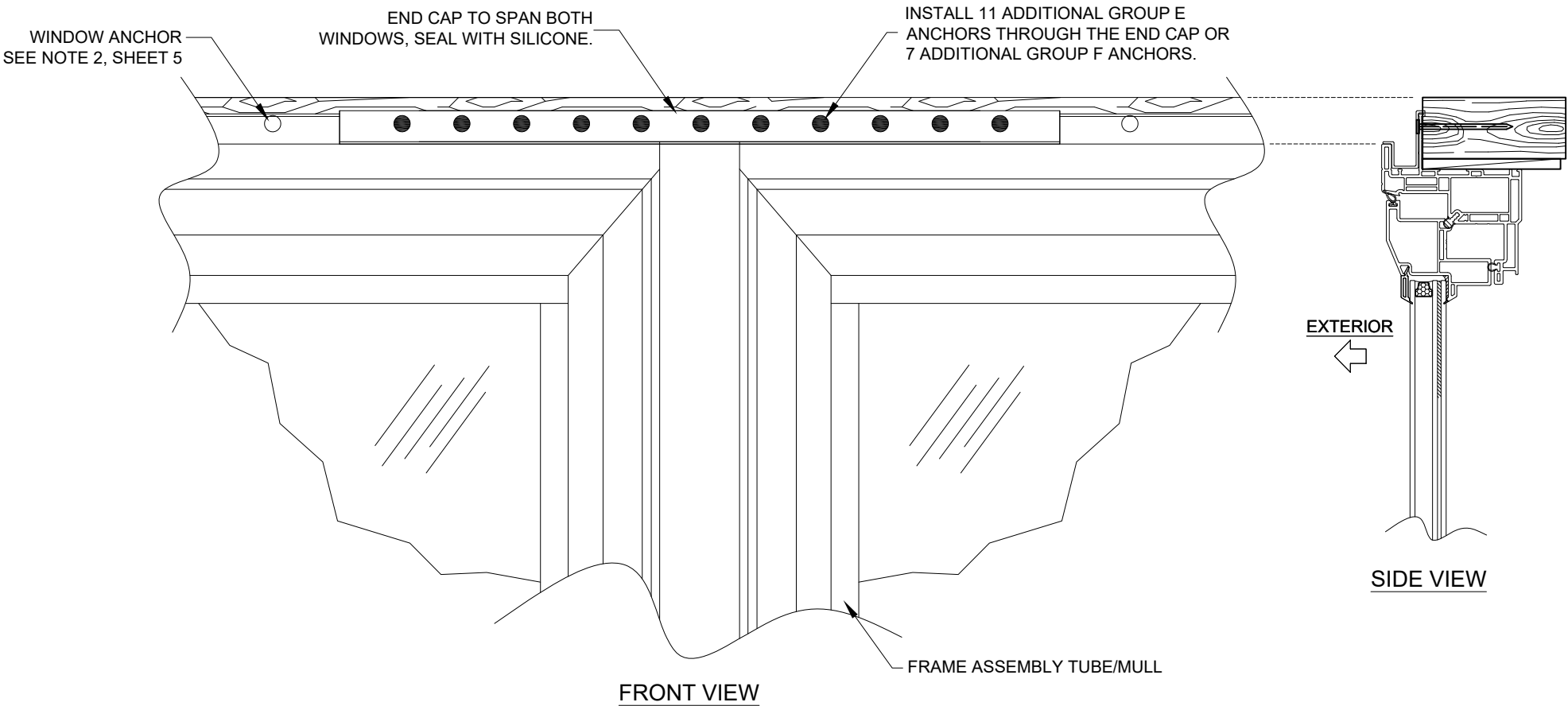
4) FOR FLANGE OR EQUAL-LEG/BOX FRAMES, THE FRAME ASSEMBLY TUBE TO BE FASTENED TO WINDOW, AS SHOWN IN DETAILS, WITH MIN. #10 X 3/4" SHEET METAL SCREWS. USE THE SAME SPACING AND QUANTITY AS THE WINDOW INSTALLATION ANCHORS GIVEN IN THAT PRODUCT'S APPROVAL, UP TO 17" MAX. O.C., ADD ADDITIONAL ANCHORS AS NEEDED. THE FRAME ASSEMBLY TUBE IS NOT REQUIRED TO BE CLIPPED TO THE SUBSTRATE. ALL EXTERIOR JOINTS TO BE SEALED BY INSTALLER.

5) THE FRAME ASSEMBLY TUBE/MULL MAY NOT EXCEED 63" IN LENGTH OR BE USED IN TEE OR CROSS CONFIGURATIONS. TWO ADJACENT WINDOWS MAY NOT EXCEED A TOTAL OF 117-1/4" IN WIDTH OR HEIGHT, FROM WINDOW BUCK TO WINDOW BUCK, INCLUDING THE FRAME ASSEMBLY TUBE/MULL WIDTH.

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PW5540		Sheet		Title		Desc.		Series	

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No. 58705
09/09/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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



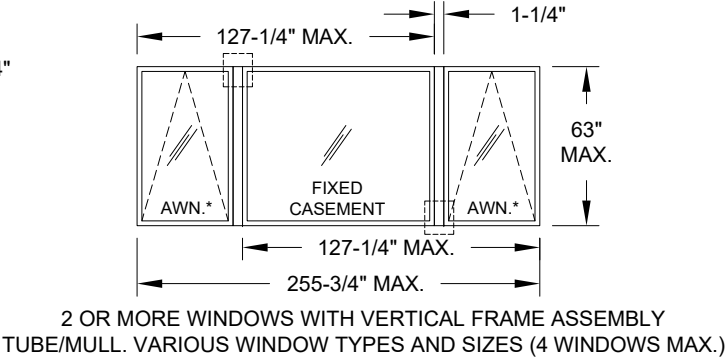
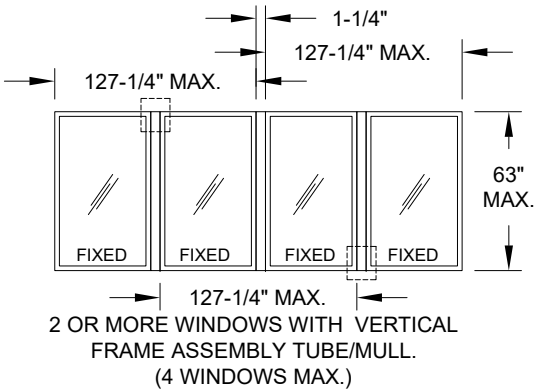
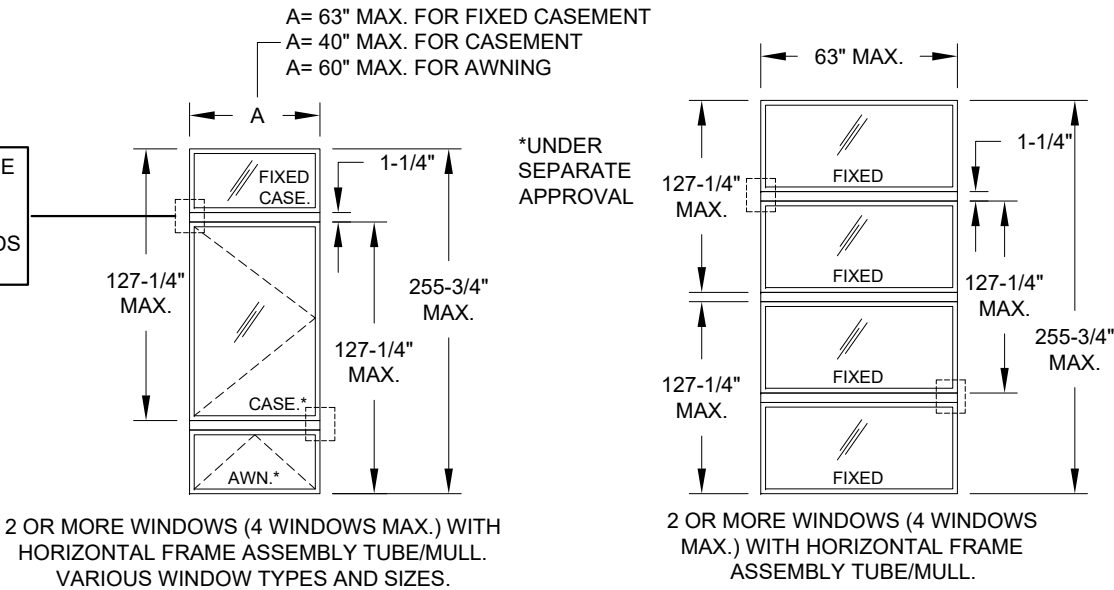
NOTES FOR FRAME ASSEMBLY TUBE END CAP:

- 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".

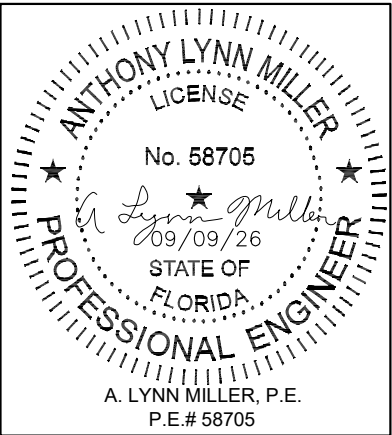
EXAMPLE CONFIGURATIONS WHEN USING THE FRAME ASSEMBLY TUBE/MULL. FOR TEES, CROSSES OR ASSEMBLIES WITH MORE THAN 4 UNITS, USE THE CLIPPED TUBE MULLION UNDER SEPARATE APPROVAL.

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 [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		VINYL CASEMENT PICTURE WINDOW	By	DWG No.
				FRAME ASSEMBLY TUBE	Sheet	6 OF 11
				PW5540		



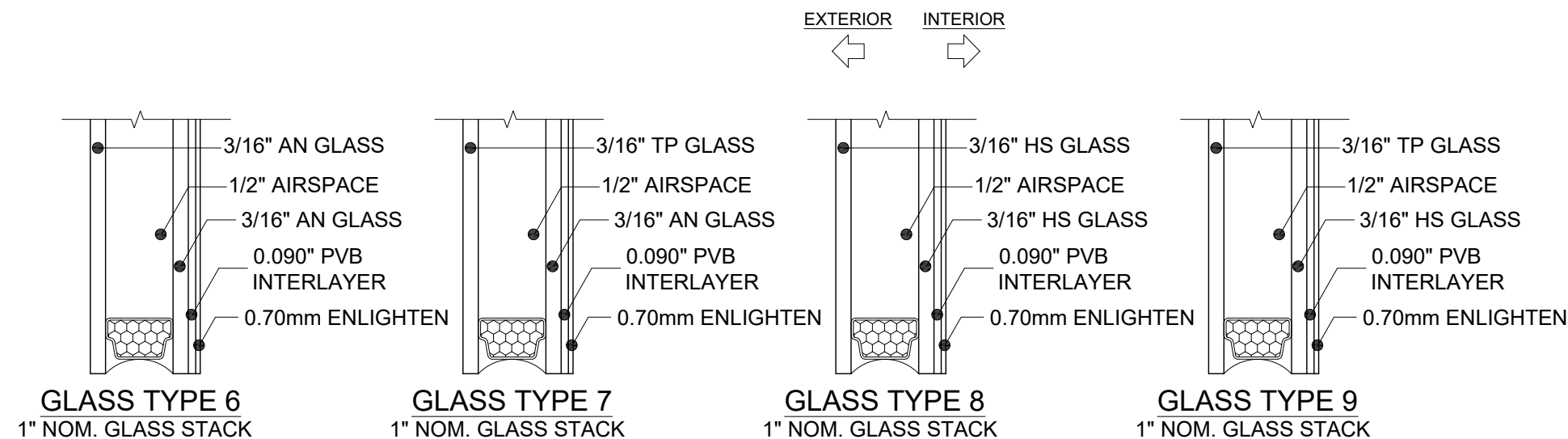
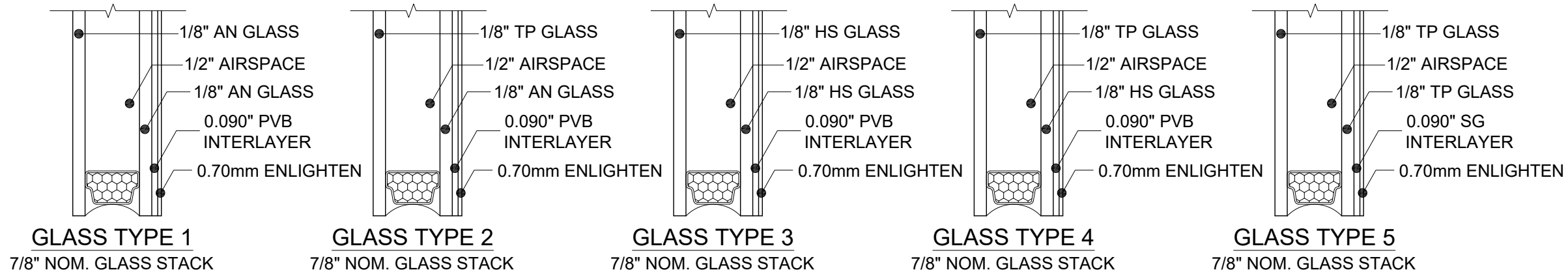
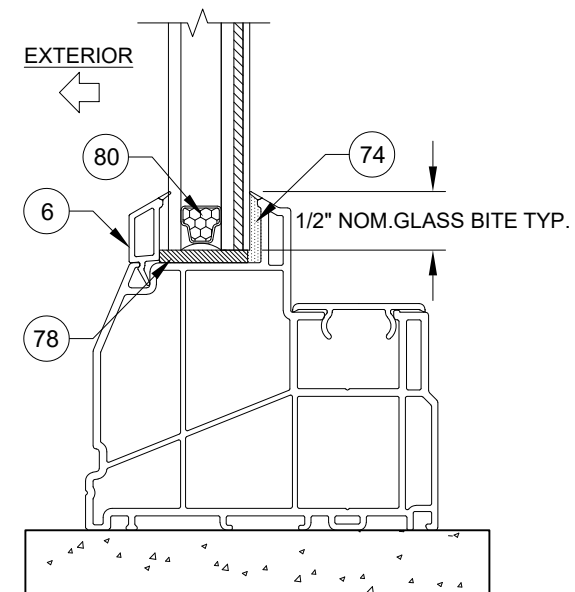


TABLE 3:

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

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

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



TYP. GLAZING DETAIL

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PGT WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		VINYL CASEMENT PICTURE WINDOW GLAZING DETAILS		Sheet 7 OF 11	Series PW5540	Title PW5540-LM-HVHZ-TRTN

ANTHONY LYNN MILLER
 LICENSE
 No. 58705
 09/09/26
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E.# 58705

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		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								
	46	+/-53.6	+/-51.1	+/-48.6														
	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																

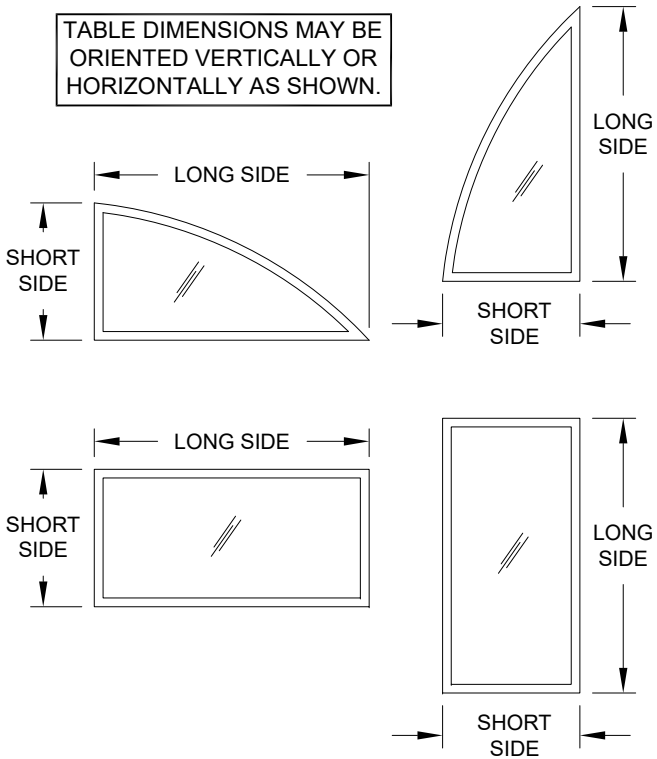


TABLE 5:

Anchors Allow ed: 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														
		Max. O.C. 14-1/2"		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	+/-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																					
	50	+/-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.

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VINYL CASEMENT PICTURE WINDOW

DESIGN PRESSURE TABLES

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PW5540

09/09/26

JENS ROSOWSKI

PW5540-LM-HVHZ-TRTN

By

No.

DWG

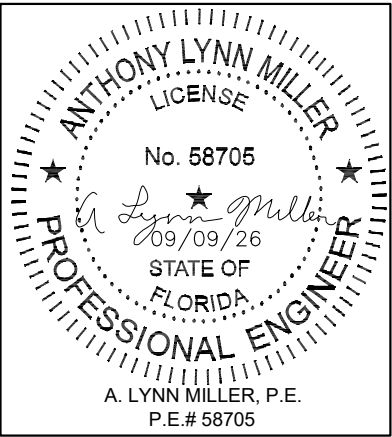
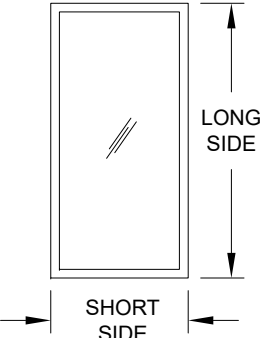
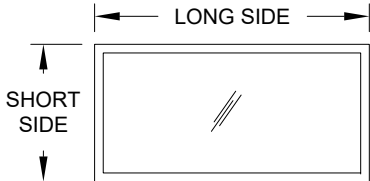
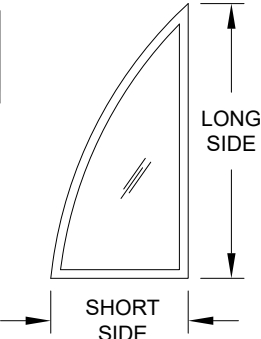
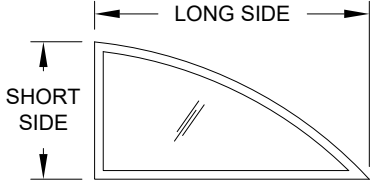


TABLE 6:

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/-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/-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/-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/-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/-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																
	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 DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.



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

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																
	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					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																		
	43-3/16	+/-80	+/-80	+/-80	+/-80	+/-78.8					APPLIES TO A, B, C OR D ANCHORS				N/A																		
	44	+/-80	+/-80	+/-80	+/-80																												
	46	+/-80	+/-80	+/-80							14-1/2"																						
	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.

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VINYL CASEMENT PICTURE WINDOW

DESIGN PRESSURE TABLES

PW5540

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PW5540-LM-HVHZ-TRTN

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LICENSE
No. 58705
09/09/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 8:

Anchors Allowed: B, C, D		Design Pressure (+/-, psf)															
		Long Side (in)															
Max. O.C. 12"		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											
	60	+70/-80	+70/-80	+70/-80	+70/-80												
	62	+70/-80	+70/-80	+70/-80													
	66	+70/-80	+70/-80														
	70-1/2	+70/-80															

MAX. O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEET 3

APPLIES TO B, C OR D ANCHORS

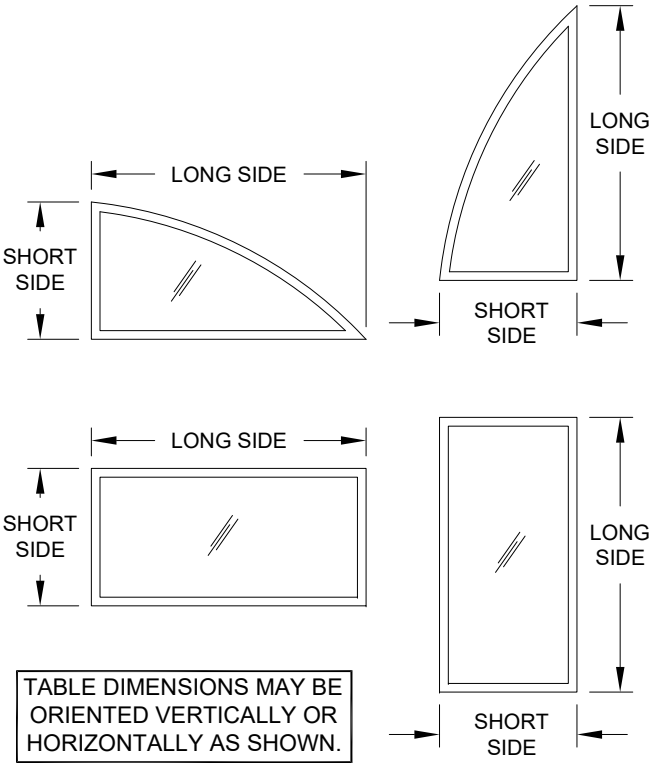
12"

MAX. O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4

N/A

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- 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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REGISTRATION #29296

VINYL CASEMENT PICTURE WINDOW

DESIGN PRESSURE TABLES

By

Drawn

09/09/26

Date

JENS ROSOWSKI

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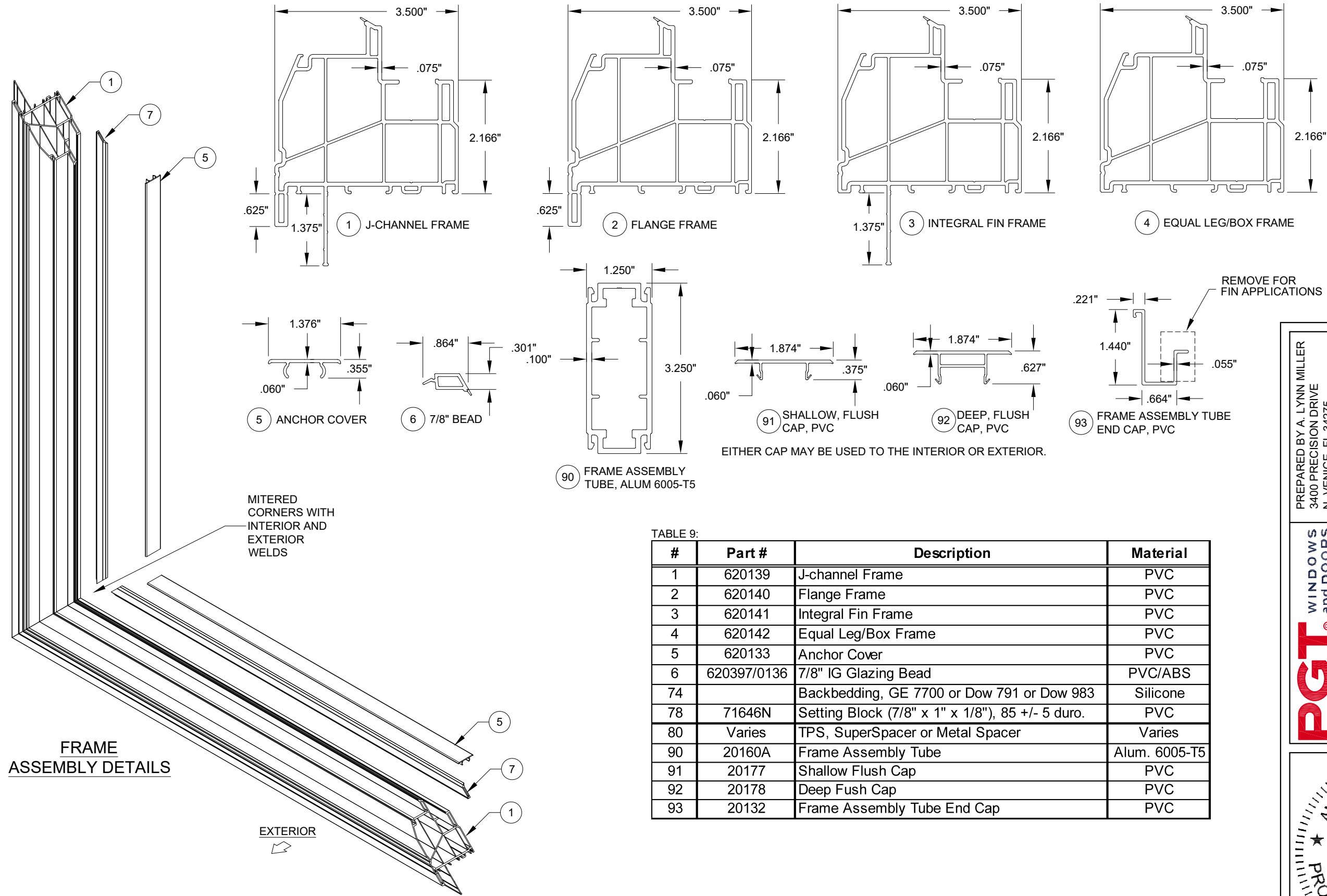
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DWG No.

PW5540

PW5540-LM-HVHZ-TRTN

ANTHONY LYNN MILLER
LICENSE
No. 58705
09/09/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



FRAME
ASSEMBLY DETAILS

EXTERIOR
↗

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

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	620397/0136	7/8" IG Glazing Bead	PVC/ABS
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

PGT[®] WINDOWS and DOORS

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PREPARED BY A LYNN MILLER
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VINYL CASEMENT PICTURE WINDOW

By
JENS ROSOWSKI

Date
09/09/26

BOM & EXTRUSIONS

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Sheet

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