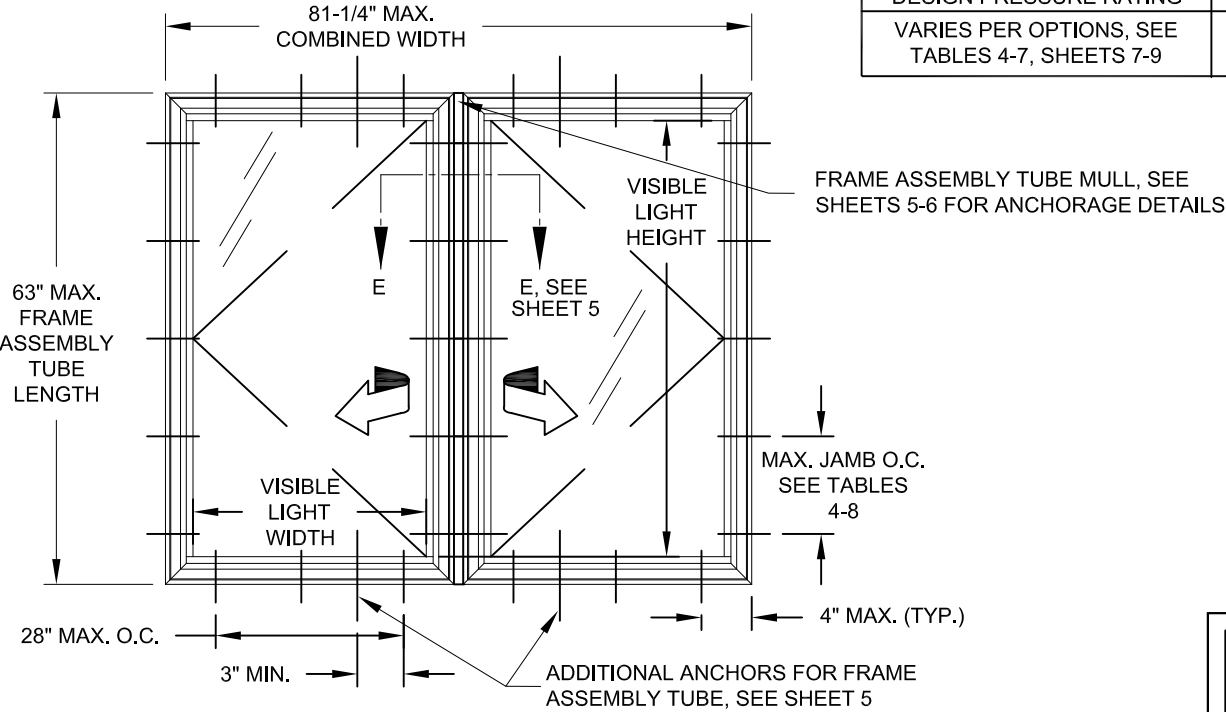


SERIES CA5540 IMPACT RESISTANT VINYL CASEMENT WINDOW,
WITH DIAMOND GLASS

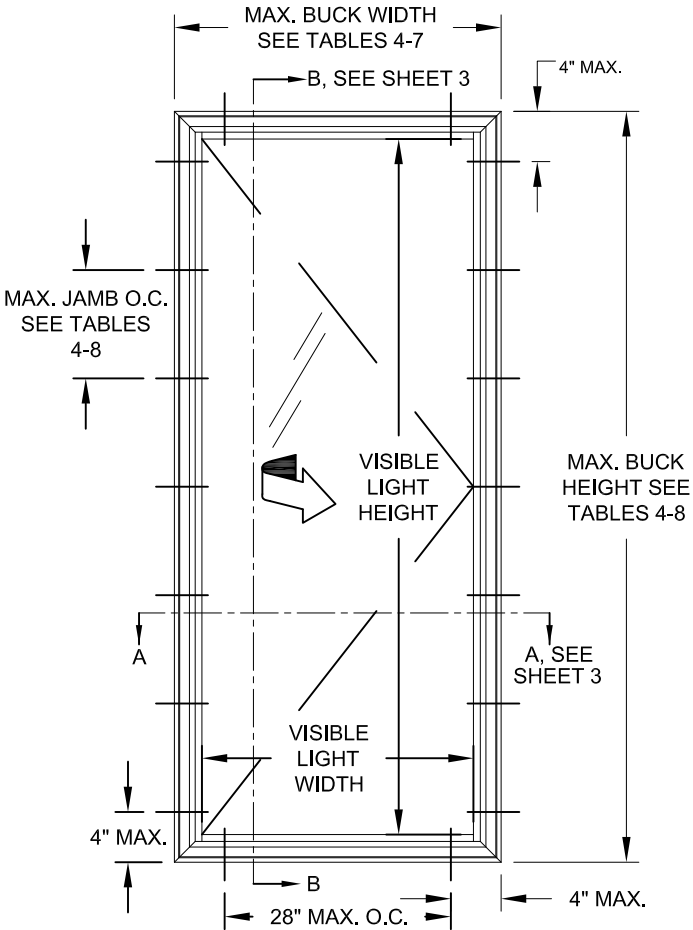
FLORIDA PRODUCT APPROVAL #29702

- 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. INSTALLATION ANCHOR SHOULD BE SEALED. 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. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED AND SECURED 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.
- 7) FRAME FLANGES OR INTEGRAL FINS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL LEG FRAME.

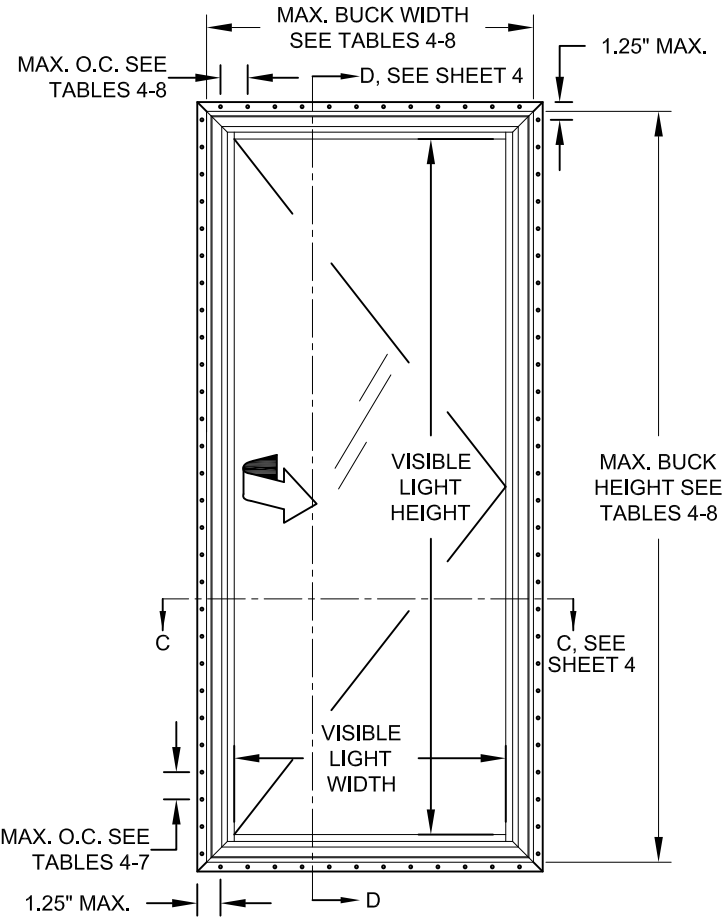
DESIGN PRESSURE RATING	IMPACT RATING
VARIES PER OPTIONS, SEE TABLES 4-7, SHEETS 7-9	LARGE & SMALL MISSILE IMPACT RESISTANT



TYP. X-X EQUAL-LEG/BOX &
FLANGE FRAME ANCHORAGE



TYP. EQUAL-LEG/BOX &
FLANGE FRAME ANCHORAGE



TYP. INTEGRAL FIN & J-CHANNEL
FRAME ANCHORAGE

GENERAL NOTES & ELEVATIONS.....	1
FRAME, GLASS & ANCHOR OPTIONS.....	2
INSTALLATION, FLANGE & EQUAL LEG.....	3
INSTALLATION, INTEGRAL FIN & J-CHANNEL.....	4
FRAME ASSEMBLY TUBE.....	5-6
GLAZING DETAILS.....	7
DESIGN PRESSURES.....	8-9
BOM & ASSEMBLY.....	10-11

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6-3/4"
HEIGHT: BUCK HEIGHT - 6-3/4"

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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600				REGISTRATION #29296	
		VINYL CASEMENT WINDOW (LM)		02/05/25	
				Date	
		GENERAL NOTES & ELEVATIONS		LOGAN YODER	
		By		Drawn	
		Sheet		No.	
CA5540		1 OF 11		CA5540-DG-LM	
Series		Desc.		Title	

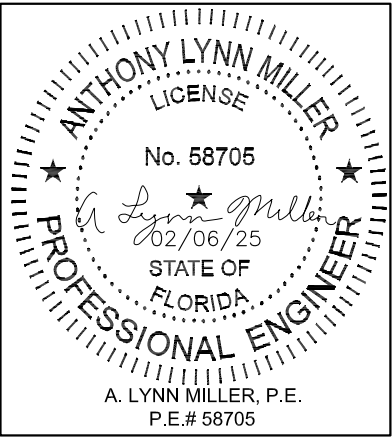


TABLE 1:

Glass Type	Description	Table #	Sheet #
1	7/8" Laminated I.G.: 1/8" A Exterior Cap + 1/2" Air Space + 1/8" A Glass + .090" PVB Interlayer + 0.7mm ATG	4	7
2	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" A Glass + .090" PVB Interlayer + 0.7mm ATG	4	7
3	7/8" Laminated I.G.: 3/16" A Exterior Cap + 3/8" Air Space + 3/16" A Glass + .090" PVB Interlayer + 0.7mm ATG	5	8
4	7/8" Laminated I.G.: 3/16" T Exterior Cap + 3/8" Air Space + 3/16" A Glass + .090" PVB Interlayer + 0.7mm ATG	5	8
5	7/8" Laminated I.G.: 1/8" H Exterior Cap + 1/2" Air Space + 1/8" H Glass + .090" PVB Interlayer + 0.7mm ATG	6	8
6	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" H Glass + .090" PVB Interlayer + 0.7mm ATG	6	8
7	7/8" Laminated I.G.: 1/8" T Exterior Cap + 1/2" Air Space + 1/8" T Glass + .090" SG Interlayer + 0.7mm ATG	7	9

"A" = ANNEALED
"H" = HEAT STRENGTHENED
"T" = TEMPERED
"PVB" = .090" TROSIFOL® PVB
BY KURARAY AMERICA, INC.
"SG" = .090" SENTRYGLAS® PVB
BY KURARAY AMERICA, INC.

GLASS TYPE 7 MAY NOT BE USED WITH J-CHANNEL OR INTEGRAL FIN FRAMES.

GLASS TYPES 1, 3 & 5 MAY NOT BE USED IN THE HVHZ ABOVE 30'.

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
A	#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. 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 or Ultracon+	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	3/16" steel Ultracon	Concrete (min. 3 ksi)	1"	1-3/8"
B	#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. 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"	0.063"
	1/4" steel Ultracon or Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	1/4" steel Creteflex	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
C	1/4" steel Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
		Concrete (min. 2.85 ksi)	1"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	1/4" steel Ultracon+	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. 2.85 ksi)	2-1/2"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	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"
E	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	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"
F	1/4" steel Ultracon	Concrete (min. 2.85 ksi)	2-1/2"	1-3/4"
		Concrete (min. 3 ksi)	2-1/2"	1-3/4"
		UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
		Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
	1/4" steel Ultracon+	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"

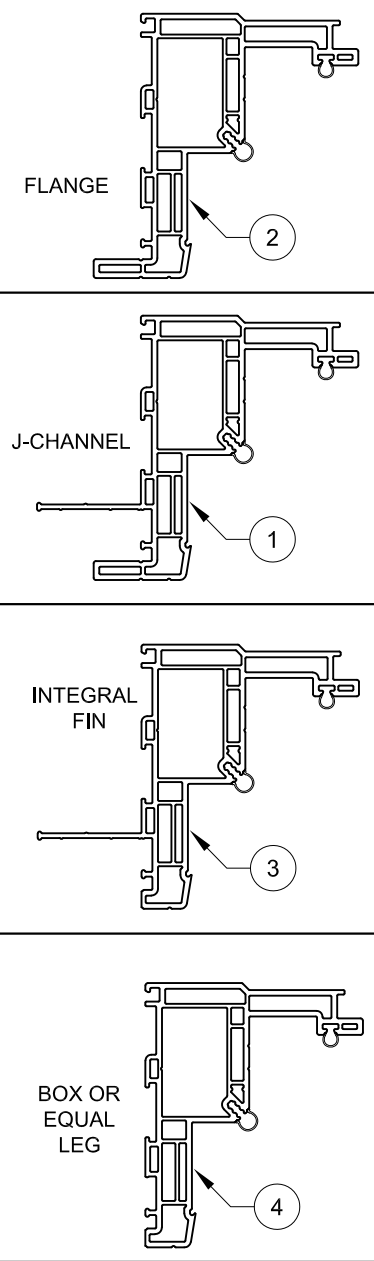
NOTE: ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

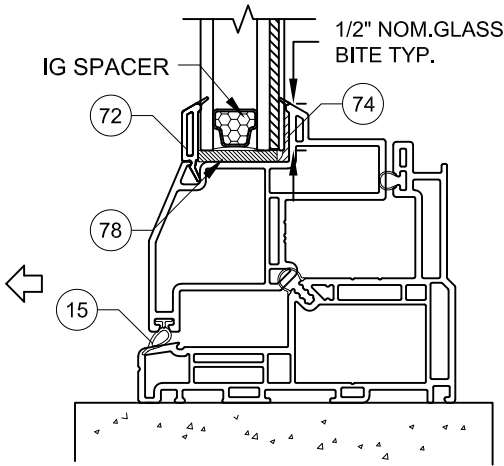
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment*
E	2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
	2-1/2" Ring-shank Roofing Nail	P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
		P.T. Southern Pine (SG=.55)	3/8"	2-7/16"
	#10 Trusshead SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	1/2"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.050"
		Steel Stud, Gr. 33*	3/8"	0.0451" (18 Ga.)
		Steel, A36*	3/8"	0.050"
F	#12 Pan or Flat Head SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"
		Steel Stud, Gr. 33*	3/8"	0.050"
		Steel, A36*	3/8"	0.050"
	#12 Pan or Flat Head SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=.55)	9/16"	1-3/8"
		Aluminum, 6063-T5*	3/8"	0.063"

- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

WINDOW FRAMES MAY BE ANY OF THOSE SHOWN BELOW:



NOTE: SEE DETAILS AND DIMENSIONS ON SHEET 11



TYP. GLAZING DETAIL

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

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02/05/25
Date

LOGAN YODER
By

VINYL CASEMENT WINDOW (LM)
Title

CA5540
Sheet

2 OF 11
DWG

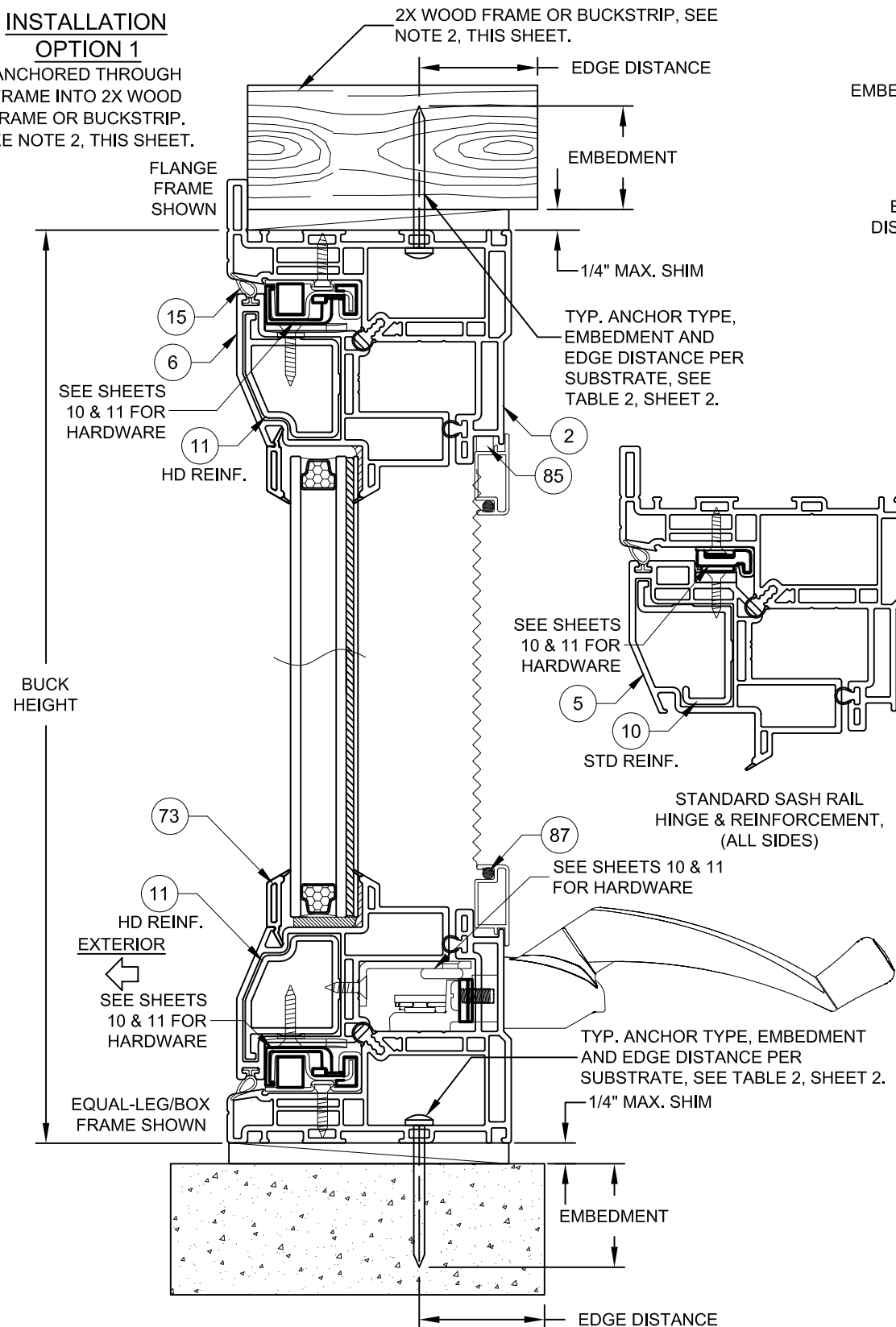
CA5540-DG-LM
Series

PGT
Custom Windows and Doors
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/06/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION DETAILS FOR FLANGE & EQUAL-LEG/BOX FRAMES

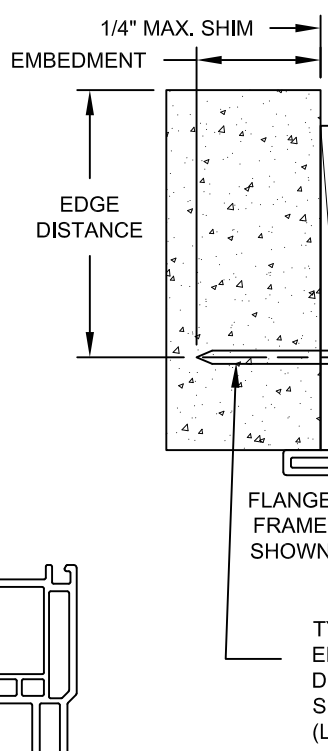
**INSTALLATION
OPTION 1**
ANCHORED THROUGH
FRAME INTO 2X WOOD
FRAME OR BUCKSTRIP.
SEE NOTE 2, THIS SHEET.



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

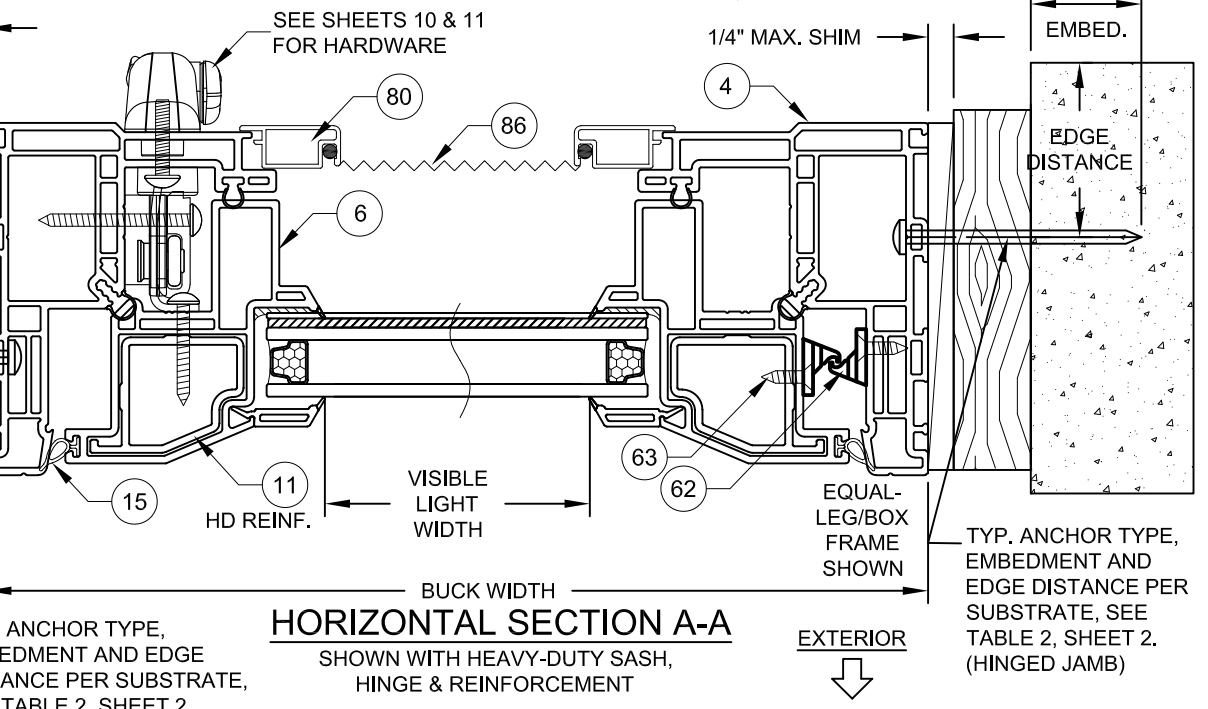
VERTICAL SECTION B-B
SHOWN WITH HEAVY-DUTY SASH,
HINGE & REINFORCEMENT

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



HORIZONTAL SECTION A-A
SHOWN WITH HEAVY-DUTY SASH,
HINGE & REINFORCEMENT

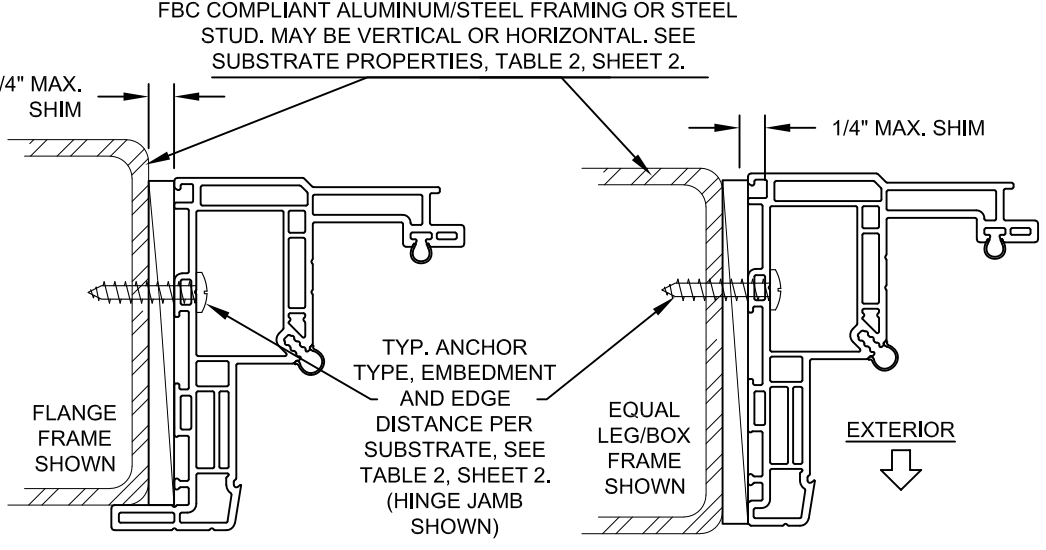
INSTALLATION OPTION 3
ANCHORED THROUGH FRAME AND 1X
BUCKSTRIP INTO CONCRETE/CMU.
SEE NOTE 2, THIS SHEET.



EXTERIOR
↓

NOTES:

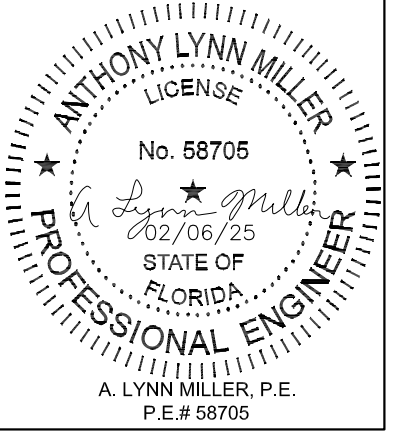
- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE 2, SHEET 2. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 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 AND SECURED 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 4**
ANCHORED THROUGH
FRAME INTO METAL

**INSTALLATION
OPTION 4**
ANCHORED THROUGH
FRAME INTO METAL

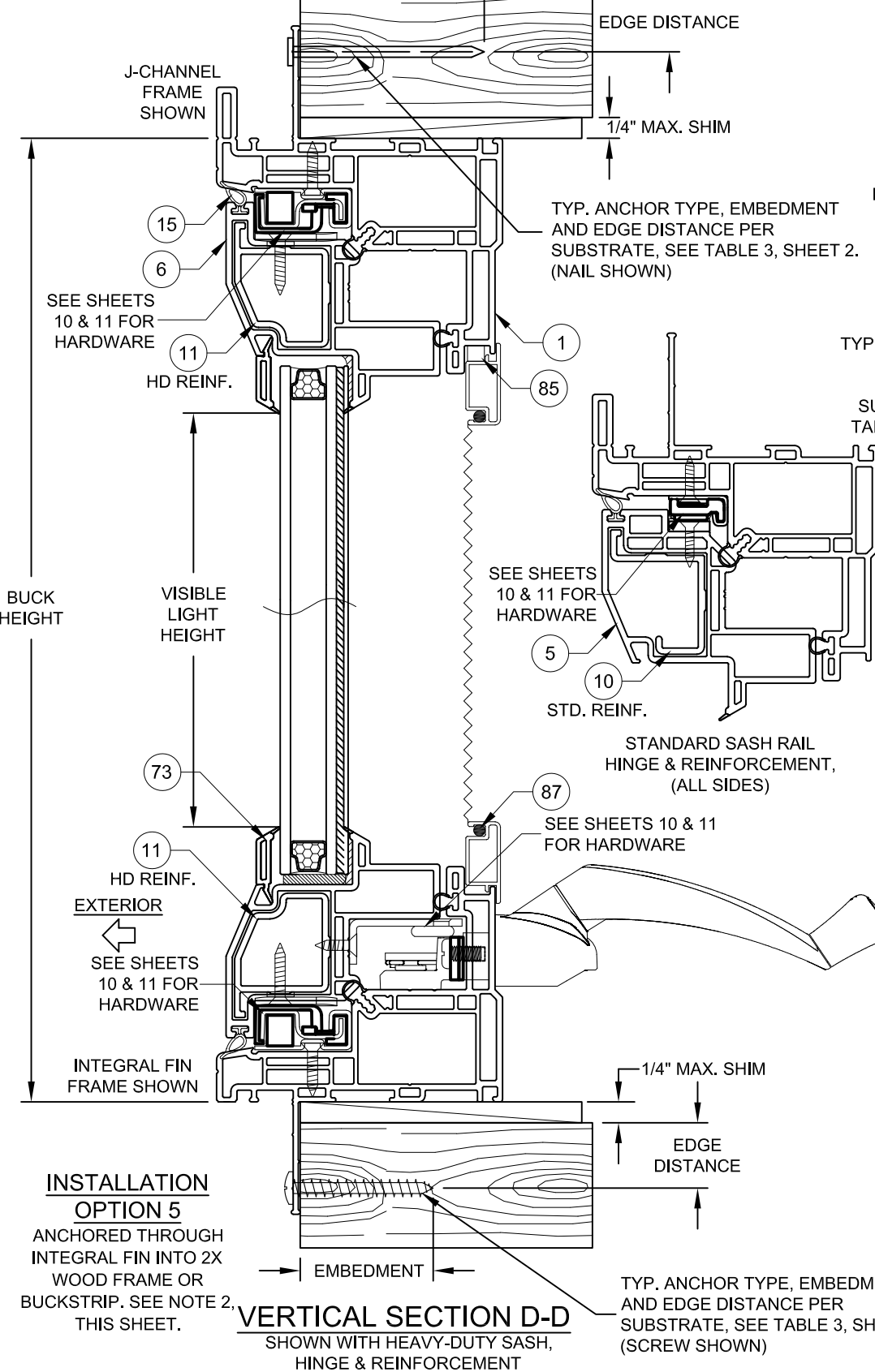
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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL CASEMENT WINDOW (LM)		CA5540		3 OF 11		DWG No.	
INST., FLANGE & EQUAL LEG/BOX		Sheet		Title		Series		Desc.	



INSTALLATION DETAILS FOR INTEGRAL FIN & J-CCHANNEL FRAMES

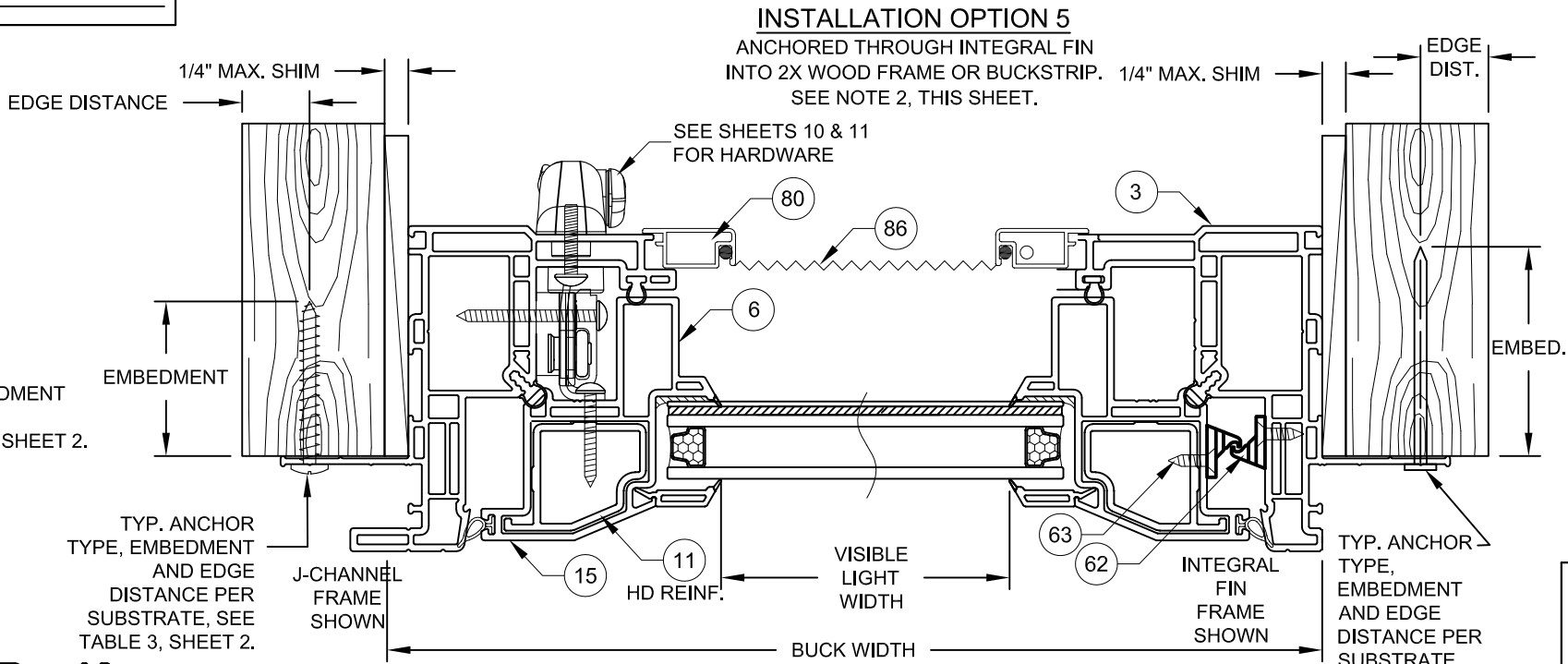
INSTALLATION OPTION 5

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



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

VERTICAL SECTION D-D
SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT

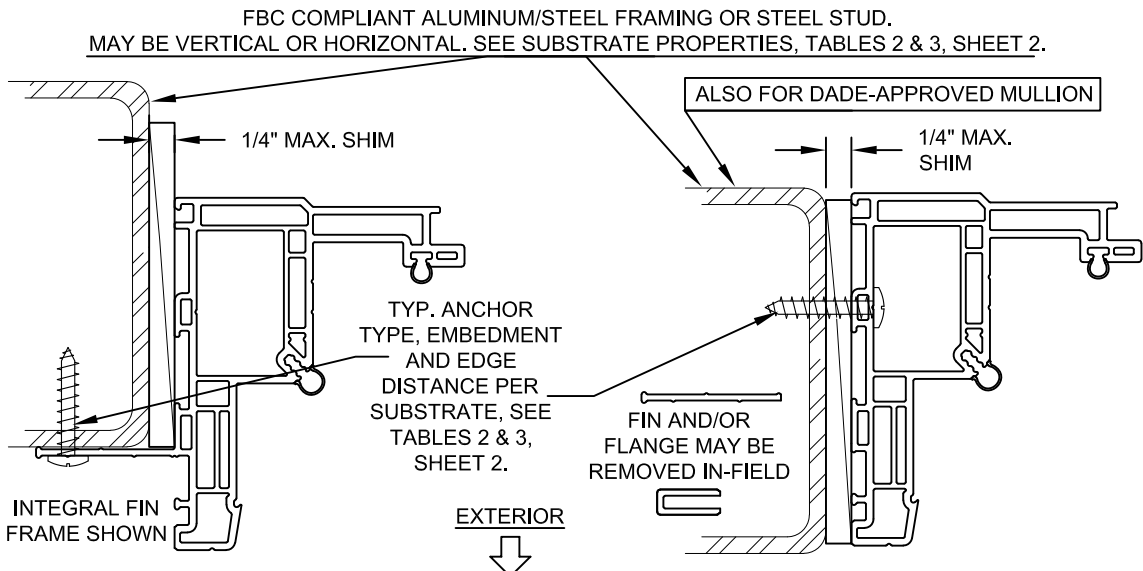


INSTALLATION OPTION 5
ANCHORED THROUGH INTEGRAL FIN INTO 2X WOOD FRAME OR BUCKSTRIP. 1/4\"/>

HORIZONTAL SECTION C-C
SHOWN WITH HEAVY-DUTY SASH, HINGE & REINFORCEMENT

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 2, SHEET 2. ALL WOOD BUCKS LESS THAN 1-1/2\"/>
- 3) VISIBLE LIGHT WIDTH OR HEIGHT (ALSO REFERRED TO AS DAYLIGHT OPENING) IS MEASURED FROM BEADING TO BEADING.



INSTALLATION OPTION 7
ANCHORED THROUGH INTEGRAL FIN INTO METAL

INSTALLATION OPTION 8
ANCHORED THROUGH FRAME INTO METAL

INSTALLATION OPTION 4 (FLANGE FRAME), ALLOWED WITH MULLION INSTALLATION, SEE PAGE 3 FOR DETAILS

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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL CASEMENT WINDOW (LM)		4 OF 11		CA5540		Sheet	
INST., INTEGRAL FIN & J-CHAN.		DWG No.		4 OF 11		CA5540		Sheet	
Series		Desc.		Title		CA5540-DG-LM		Rev.	

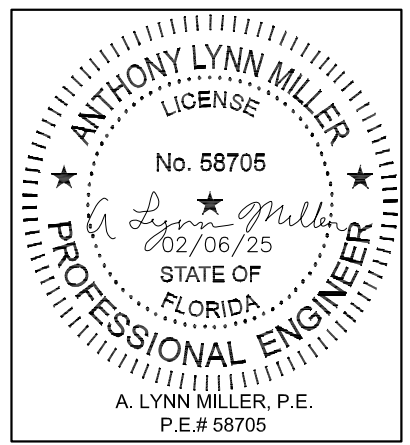
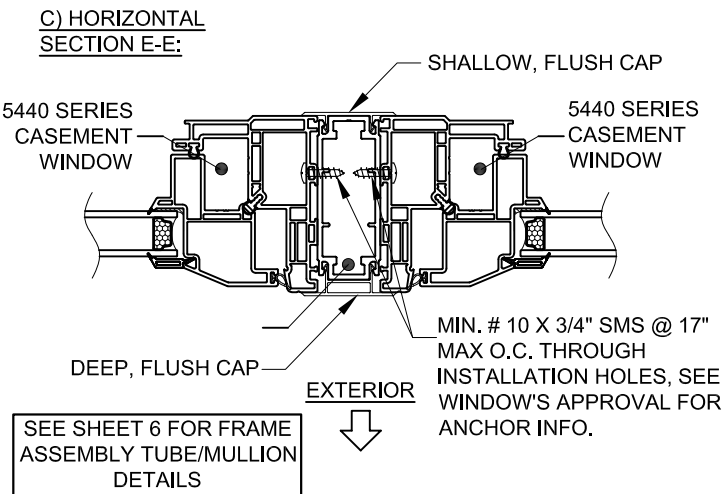
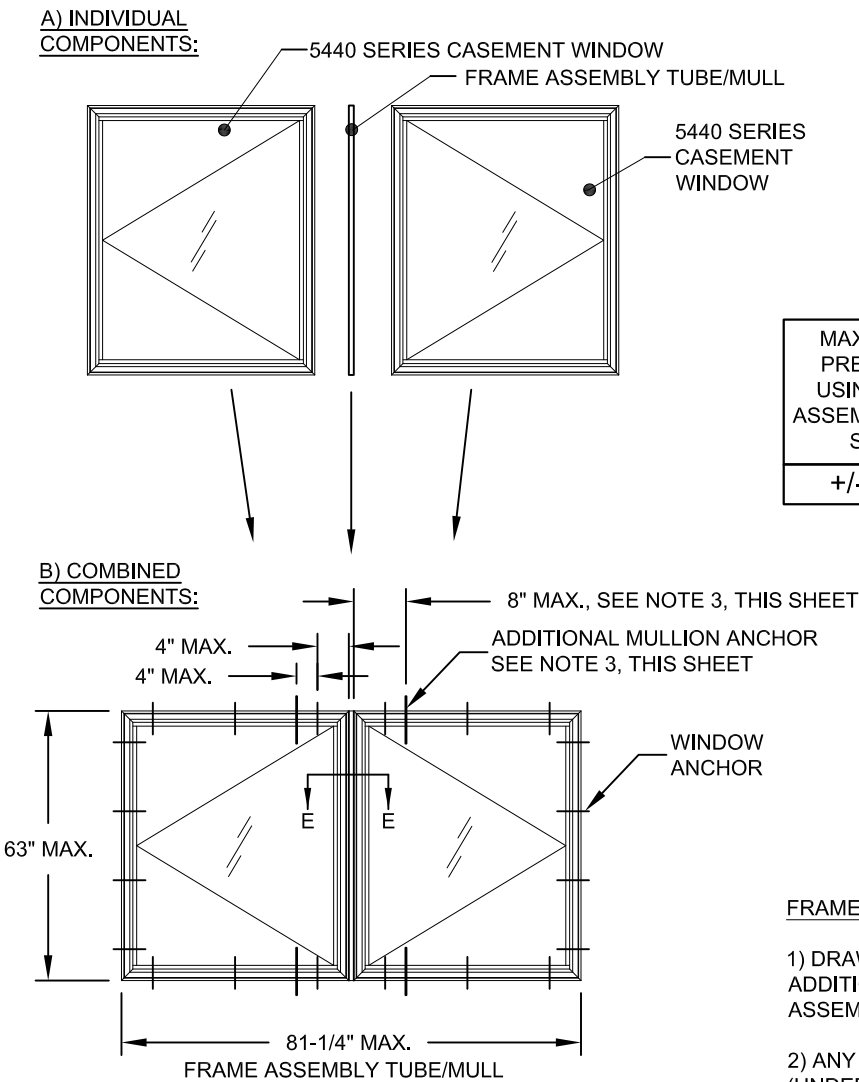


ILLUSTRATION OF CASEMENT-TO-CASEMENT (X-X)
(EQUAL LEG/BOX FRAME WITH IDENTICAL PRODUCTS COMBINED)



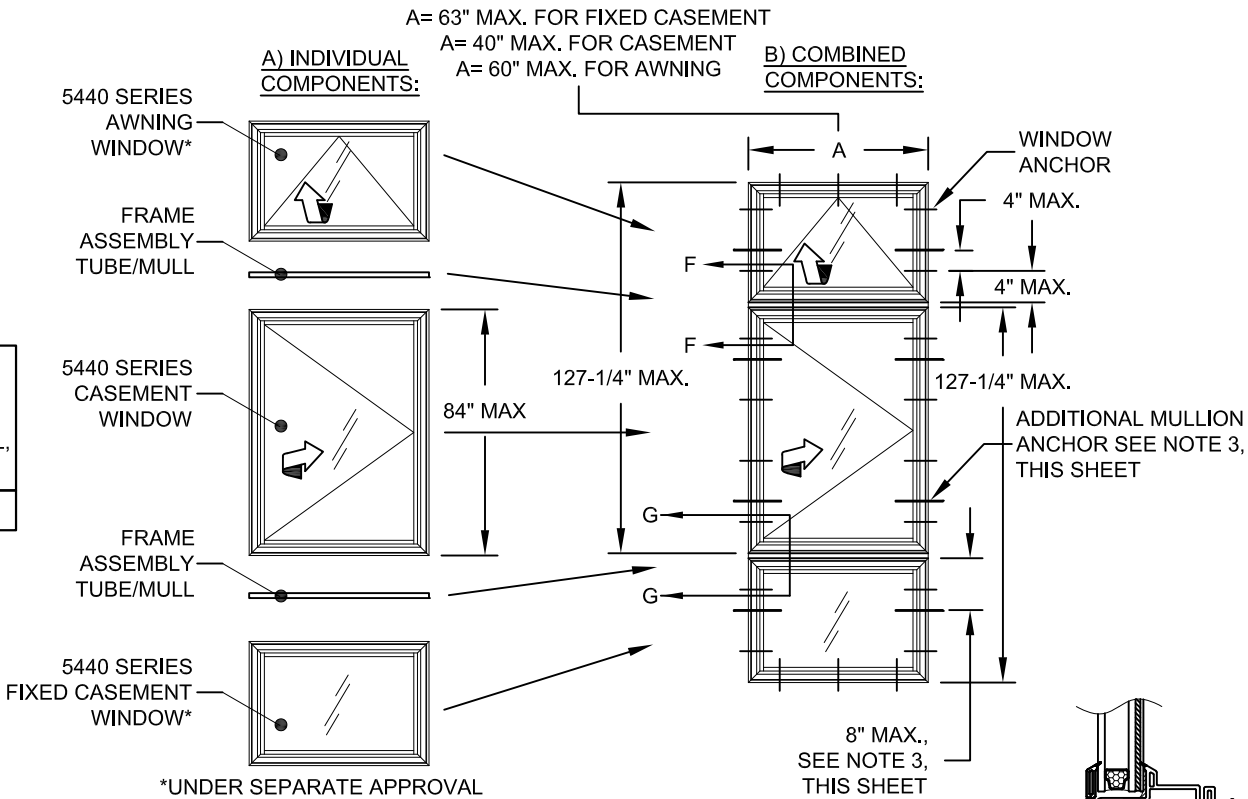
MAXIMUM DESIGN PRESSURE WHEN USING THE FRAME ASSEMBLY TUBE/MULL, SEE NOTE 2:

+/- 70.0 PSF

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 5440-SERIES CASEMENT, FIXED CASEMENT (UNDER SEPARATE APPROVAL) OR AWNING (UNDER SEPARATE APPROVAL) 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 127-1/4" IN WIDTH OR HEIGHT, FROM WINDOW BUCK TO WINDOW BUCK, INCLUDING THE FRAME ASSEMBLY TUBE/MULL WIDTH.
- 6) SHEET 5 & 6 REFER TO UNCLIPPED MULLION ASSEMBLIES. FOR CLIPPED MULLION ASSEMBLIES SEE TUBE MULLION UNDER SEPARATE APPROVAL.

ILLUSTRATION OF AWNING-TO-CASEMENT-TO-FIXED CASEMENT (X/X/O)
(FLANGE FRAME WITH DIFFERENT 5440 SERIES PRODUCTS COMBINED)



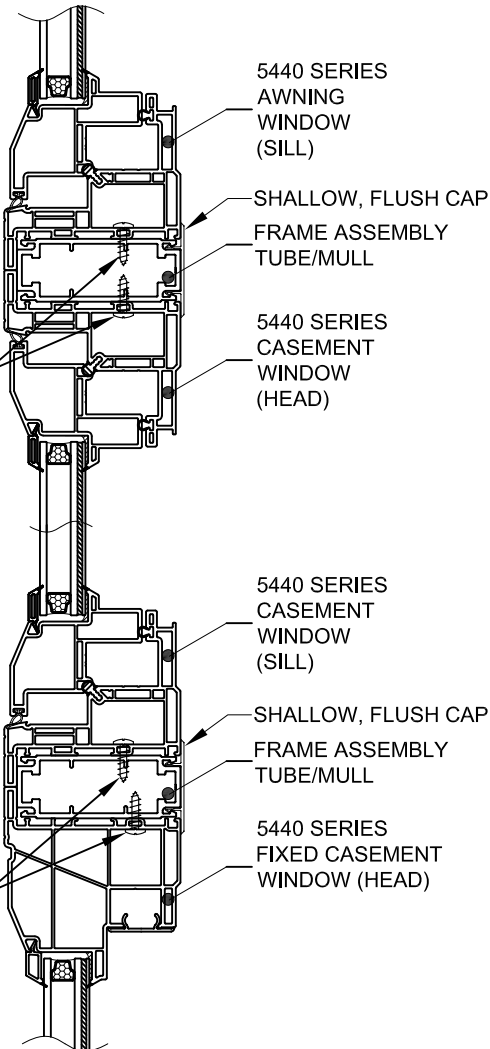
VERTICAL SECTION F-F

SEE WINDOW'S APPROVAL FOR ANCHOR INFO

VERTICAL SECTION G-G

EXTERIOR

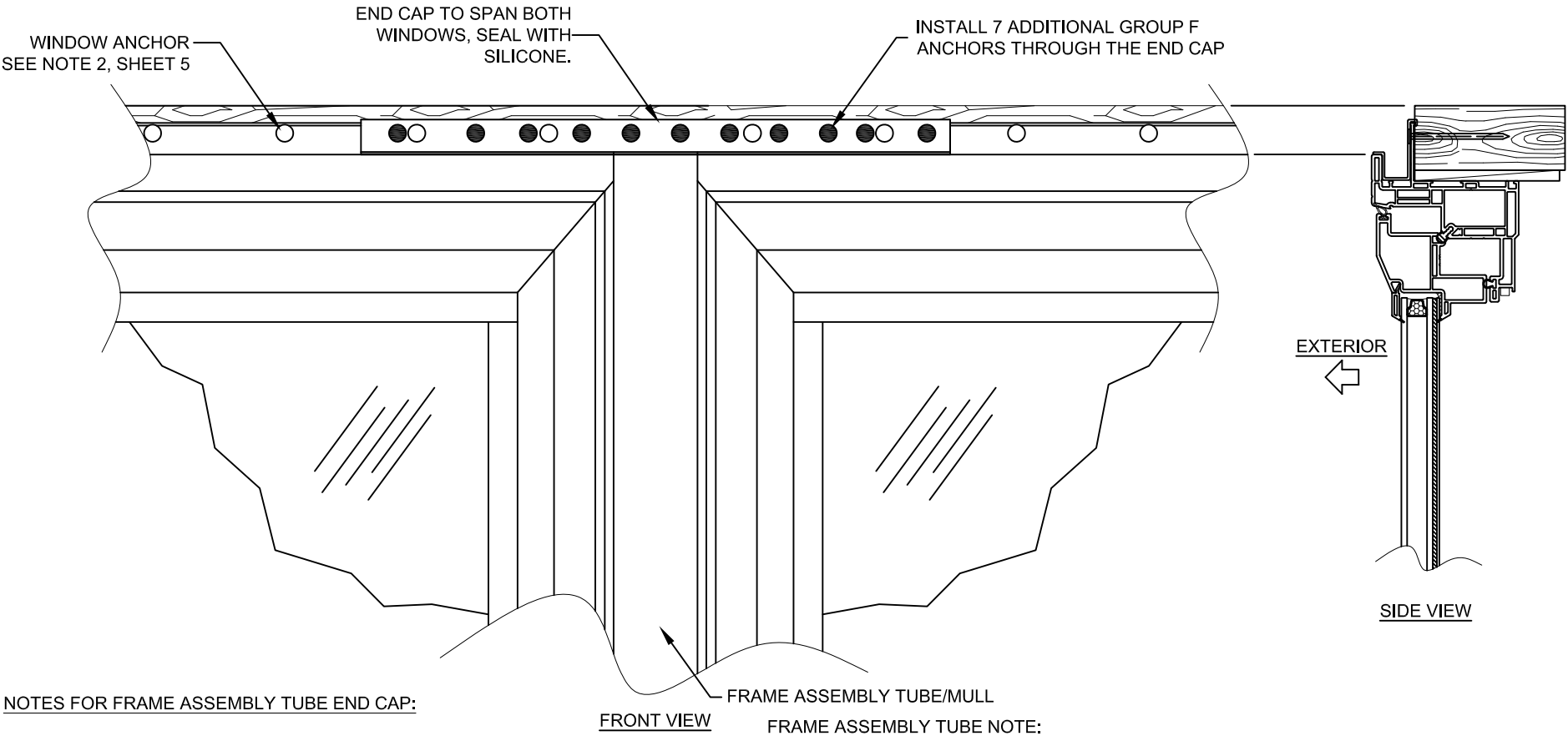
SEE WINDOW'S APPROVAL FOR ANCHOR INFO



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PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL CASEMENT WINDOW (LM)		GLAZING DETAILS.		Sheet 5 OF 11
CA5540		CA5540		CA5540		CA5540

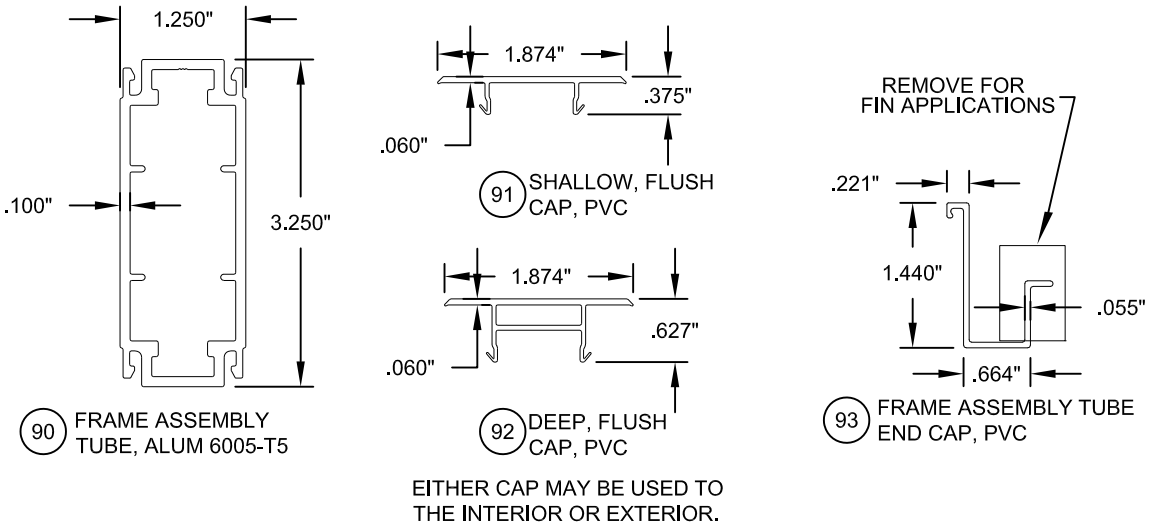
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LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

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

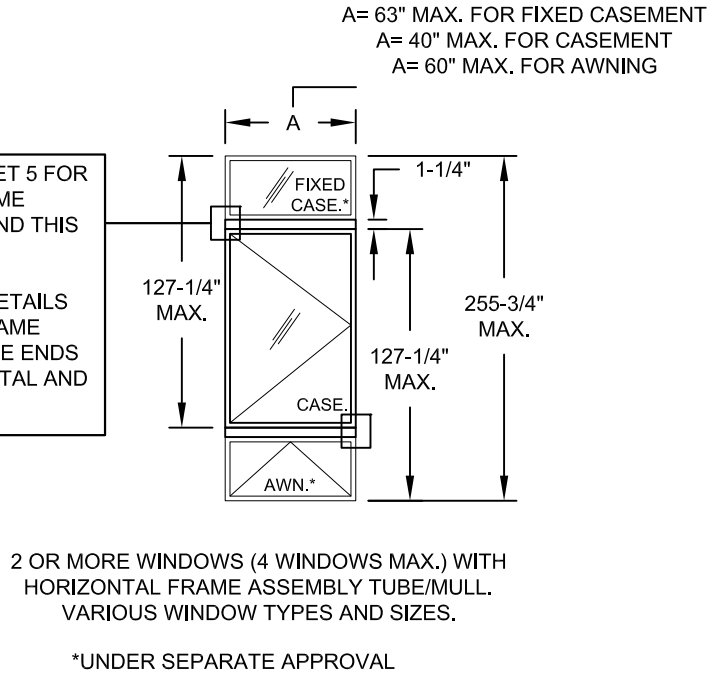


NOTES FOR FRAME ASSEMBLY TUBE END CAP:

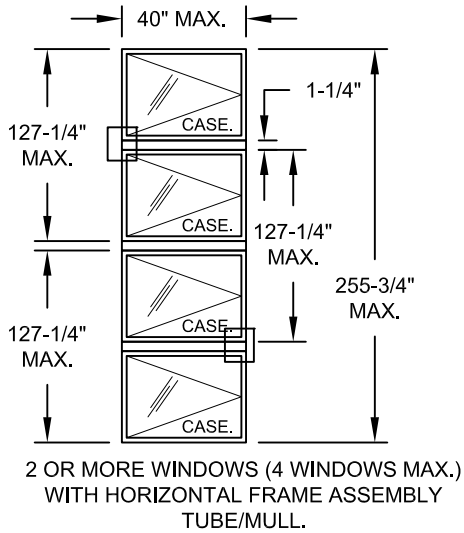
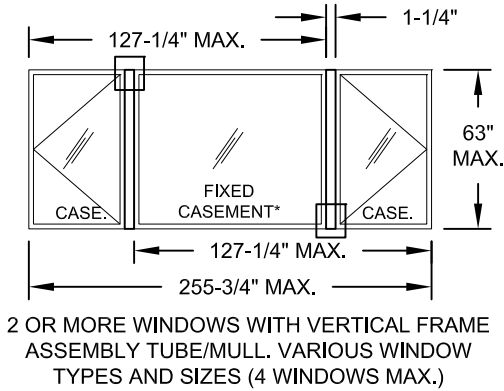
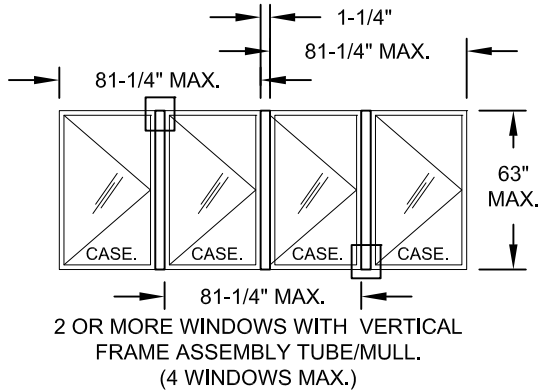
- 1) APPLIES TO FIN OR J-CCHANNEL FRAMES.
- 2) REQUIRED AT HEADER/SILL OR JAMBS TO SEAL THE END OF THE FRAME ASSEMBLY TUBE.
- 3) ALL WINDOW TYPES AND FRAME ASSEMBLY TUBE ORIENTATIONS APPLICABLE, SEE SHEET 5.
- 4) END CAP MAY REQUIRE IN-FIELD TRIMMING. STANDARD LENGTH IS 14".



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



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



PGI Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		02/05/25 Date		LOGAN YODER By		CA5540-DG-LM	
	VINYL CASEMENT WINDOW (LM)		ANCHOR QUANTITY TABLE		6 OF 11		DWG No.		CA5540	
	Sheet		Title		Desc.		Series		Rev.	
	CA5540		ANCHOR QUANTITY TABLE		6 OF 11		DWG No.		CA5540-DG-LM	

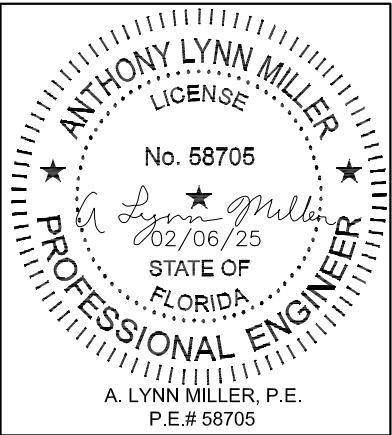


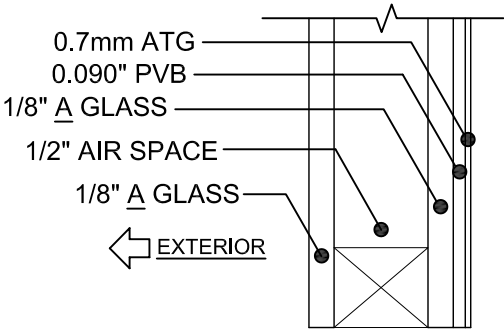
TABLE 4:

Window Design Pressure, (+/- psf)																Standard Sash, Hinge & Reinforcement	Use this table for Glass Types:	1 & 2
Window Dimensions		Buck Width (in)																
		24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36
Buck Height (in)	48	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.9	+65/-69.5	+65/-69	+65/-68.6	+65/-68.2	+65/-67.8	+65/-67.4	+65/-67	+65/-66.6	+65/-66.2	+65/-66.1
	60	+65/-70	+65/-67.6	+/-64.8	+/-64.6	+/-64.6	+/-64.1	+/-63.6	+/-63.1	+/-62.6	+/-62.1	+/-61.6	+/-61.1	+/-60.6	+/-60.1	+/-59.7	+/-59.2	+/-59
	66	+65/-70	+/-61.2	+/-55.8	+/-54.6	+/-54.7	+/-54.8	+/-54.9	+/-55	+/-55.1	+/-55.2	+/-55.3	+/-55.4	+/-55.6	+/-55.7	+/-55.9	+/-55.9	+/-55.8
	70	+65/-68	+/-57.9	+/-52.5	+/-50.1	+/-50	+/-50	+/-50.1	+/-50.2	+/-50.4	+/-50.5	+/-50.6	+/-50.8	+/-50.9	+/-51	+/-51.1	+/-51.2	+/-51.3
	71.593	+65/-67.3	+/-56.9	+/-51.2	+/-48.2	+/-48.1	+/-48.1	+/-48.1	+/-48.1	+/-48.2	+/-48.5	+/-48.7	+/-48.9	+/-49	+/-49.2	+/-49.2	+/-49.3	+/-49.4
	72	+65/-67.1	+/-56.6	+/-50.9	+/-47.8	+/-47.7	+/-47.6	+/-47.6	+/-47.7	+/-47.7	+/-48	+/-48.2	+/-48.4	+/-48.5	+/-48.7	+/-48.8	+/-48.9	
	73	+65/-66.6	+/-56.1	+/-50.2	+/-46.8	+/-46.7	+/-46.7	+/-46.7	+/-46.7	+/-46.7	+/-46.9	+/-47	+/-47.2	+/-47.3	+/-47.5	+/-47.7		
	74	+65/-66.2	+/-55.5	+/-49.5	+/-45.9	+/-45.9	+/-45.9	+/-45.9	+/-45.9	+/-45.9	+/-46	+/-46	+/-46.2	+/-46.3	+/-46.5			
	75	+65/-65.8	+/-54.9	+/-48.8	+/-45.2	+/-45.1	+/-45.1	+/-45.1	+/-45.1	+/-45.1	+/-45.1	+/-45.1	+/-45.3	+/-45.4				
	76	+65/-65.4	+/-54.5	+/-48.1	+/-44.5	+/-44.4	+/-44.3	+/-44.3	+/-44.3	+/-44.3	+/-44.3	+/-44.3	+/-44.4					
	77	+/-65	+/-54.1	+/-47.6	+/-43.9	+/-43.7	+/-43.5	+/-43.5	+/-43.5	+/-43.5	+/-43.6	+/-43.6						
	78	+/-64.6	+/-53.6	+/-47.1	+/-43.2	+/-43	+/-42.8	+/-42.7	+/-42.7	+/-42.6	+/-42.7							
	79	+/-64.2	+/-53.2	+/-46.6	+/-42.5	+/-42.3	+/-42.1	+/-41.9	+/-41.8	+/-41.7			MAX JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4		MAX O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4			
	80	+/-63.9	+/-52.9	+/-46.1	+/-41.8	+/-41.6	+/-41.4	+/-41.2	+/-41									
	81	+/-63.6	+/-52.5	+/-45.7	+/-41.1	+/-40.9	+/-40.6	+/-40.4										
	82	+/-63.3	+/-52.2	+/-45.3	+/-40.5	+/-40.2	+/-39.9						APPLIES TO A, B, C OR D ANCHORS (SEE TABLE 2)		APPLIES TO E ANCHORS (SEE TABLE 3)			
	83	+/-63	+/-51.9	+/-45	+/-40	+/-39.5												
	84	+/-62.7	+/-51.6	+/-44.7	+/-39.4								12.67"		4"			

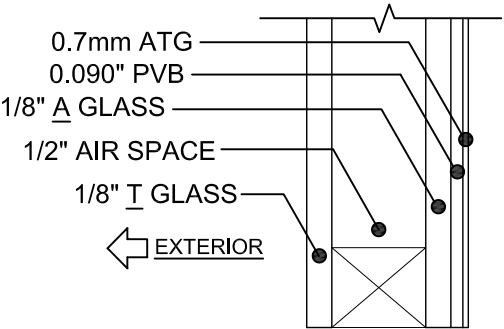
NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.

GLASS TYPE 1 MAY NOT BE USED IN THE HVHZ ABOVE 30'.



GLASS TYPE 1
(7/8" NOM. GLASS STACK)



GLASS TYPE 2
(7/8" NOM. GLASS STACK)

PGT

Custom Windows and Doors

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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VINYL CASEMENT WINDOW (LM)

02/05/25

DESIGN PRESSURE C

LOGAN YODER

CA5540

7 OF 11

CA5540-DG-LM

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/06/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

Window Design Pressure, (+/- psf)																Standard Sash, Hinge & Reinforcement	Use this table for Glass Types:	3, 4, 5 & 6
Window Dimensions	Buck Width (in)																	
	24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36	
Buck Height (in)	48	+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	+65/-70	+65/-70	+65/-70	
	60	+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	+65/-70	+65/-70	+65/-70	
	66	+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	+65/-70	+65/-70	+65/-70	
	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	+65/-70	+65/-70	+65/-70	+65/-70	
	71.593	+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/-69.6	+65/-69.2	+65/-68.7	+65/-68.6	
	72	+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/-69.7	+65/-69.2	+65/-68.8	+65/-68.3	
	73	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69.1	+65/-68.6	+65/-68.2	+65/-67.7		
	74	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.8	+65/-69.2	+65/-68.6	+65/-68.1	+65/-67.6	+65/-67.1				
	75	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.4	+65/-67.6	+65/-67	+65/-66.5					
	76	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.6	+65/-66.7	+65/-66						
	77	+65/-70	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.5	+65/-68.6	+65/-67.8	+65/-66.9	+65/-65.9							
	78	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.7	+65/-68.8	+65/-68	+65/-67.1	+65/-66.2								
	79	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-69	+65/-68.2	+65/-67.3	+65/-66.4		MAX JAMB O.C. SPACING IF ANCHORING THROUGH THE FRAME PER SHEETS 3 & 4			MAX O.C. SPACING IF ANCHORING THROUGH THE INTEGRAL FIN PER SHEET 4			
	80	+65/-70	+65/-70	+65/-70	+65/-70	+65/-69.3	+65/-68.4	+65/-67.5	+65/-66.6									
	81	+65/-70	+65/-70	+65/-70	+65/-69.6	+65/-68.7	+65/-67.8	+65/-66.9										
	82	+65/-70	+65/-70	+65/-70	+65/-69.1	+65/-68.2	+65/-67.2					APPLIES TO B, C OR D ANCHORS (SEE TABLE 2)			APPLIES TO E ANCHORS (SEE TABLE 3)			
	83	+65/-70	+65/-70	+65/-70	+65/-68.6	+65/-67.6												
	84	+65/-70	+65/-70	+65/-70	+65/-68.1							12.67"			4"			

NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN,
ROUND UP TO THE NEXT
AVAILABLE WIDTH OR HEIGHT
DIMENSION.

TABLE 6:

Window Design Pressure, (+/- psf)																Heavy-Duty Sash, Hinge & Reinforcement	Use this table for Glass Types:	3, 4, 5 & 6
Window Dimensions	Buck Width (in)																	
	24	26	28	30.683	31.052	31.431	31.819	32.217	32.625	33.043	33.472	33.912	34.365	34.829	35.306	35.797	36	
Buck Height (in)	48	+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	+65/-70	+65/-70	+65/-70	
	60	+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	+65/-70	+65/-70	+65/-70	
	66	+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	+65/-70	+65/-70	+65/-70	
	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	+65/-70	+65/-70	+65/-70	+65/-70	
	71.593	+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	+65/-70	+65/-70	+65/-70	
	72	+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	+65/-70	+65/-70	+65/-70	
	73	+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	+65/-70	+65/-70	+65/-70	
	74	+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	+65/-70	+65/-70	+65/-70	
	75	+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	+65/-70	+65/-70	+65/-70	
	76	+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	+65/-70	+65/-70	+65/-70	
	77	+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	+65/-70	+65/-70	+65/-70	
	78	+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	+65/-70	+65/-70	+65/-70	
	79	+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	+65/-70	+65/-70	+65/-70	
	80	+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	+65/-70	+65/-70	+65/-70	
	81	+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	+65/-70	+65/-70	+65/-70	
	82	+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	+65/-70	+65/-70	+65/-70	
	83	+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	+65/-70	+65/-70	+65/-70	
	84	+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	+65/-70	+65/-70	+65/-70	

MAX JAMB O.C. SPACING IF
ANCHORING THROUGH THE
FRAME PER SHEETS 3 & 4

APPLIES TO B, C OR D
ANCHORS (SEE TABLE 2)

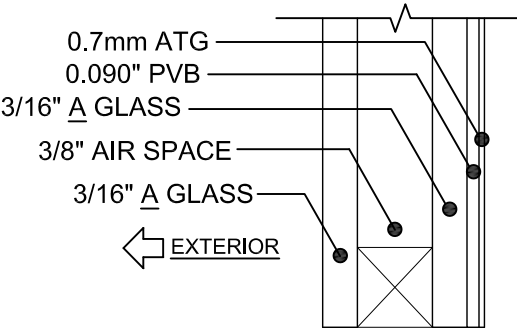
12.67"

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

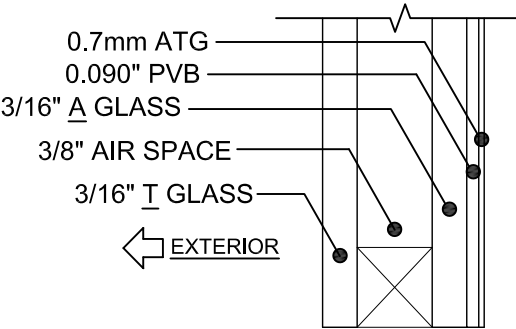
APPLIES TO E ANCHORS
(SEE TABLE 3)

4"

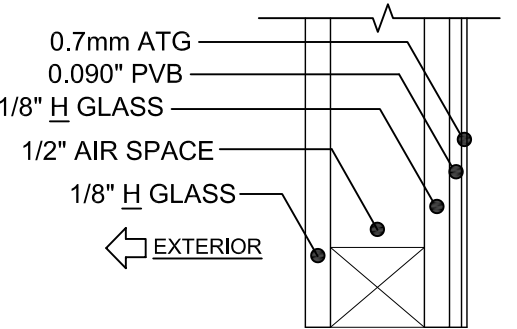
GLASS TYPES 3 & 5 MAY
NOT BE USED IN THE HVHZ
ABOVE 30'.



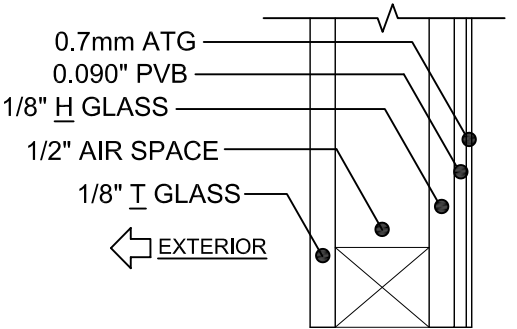
GLASS TYPE 3
(7/8" NOM. GLASS STACK)



GLASS TYPE 4
(7/8" NOM. GLASS STACK)



GLASS TYPE 5
(7/8" NOM. GLASS STACK)



GLASS TYPE 6
(7/8" NOM. GLASS STACK)

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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02/05/25
Date

LOGAN YODER
By

CA5540-DG-LM

VINYL CASEMENT WINDOW (LM)

DESIGN PRESSURE B

8 OF 11
DWG No.

CA5540
Sheet

PGT
Custom Windows and Doors
3400 PRECISION DRIVE
N. VENICE, FL 34275
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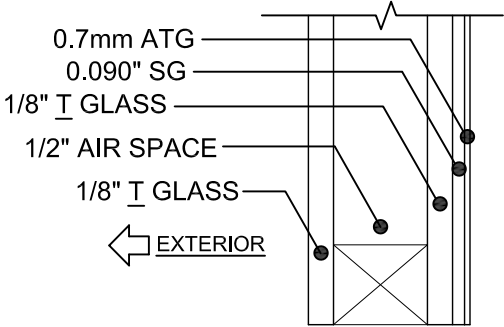
TABLE 7:

Window Design Pressure, (+/- psf)										Heavy-Duty Sash, Hinge & Reinforcement	Use this table for Glass Type:	7
Window Dimensions		Buck Width (in)										
		24	26	28	30	32	34.005	35.705	36.621	38.085	39.129	40
Buck Height (in)	48	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	60	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	72	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	76	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110
	84	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110	+70/-110

NOTES:
1) BUCK DIMENSIONS SHOWN.

2) FOR SIZES NOT SHOWN,
ROUND UP TO THE NEXT
AVAILABLE WIDTH OR HEIGHT
DIMENSION.

GLASS TYPE 7 MAY NOT BE
USED WITH J-CHANNEL OR
INTEGRAL FIN FRAMES



GLASS TYPE 7
(7/8" NOM. GLASS STACK)

MAX. JAMB O.C. SPACING IF
ANCHORING THROUGH THE
FRAME PER SHEETS 3 & 4

APPLIES TO B, C OR D ANCHORS
(SEE TABLE 2)

10.13"

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VINYL CASEMENT WINDOW (LM)

DESIGN PRESSURE C

CA5540

02/05/25

LOGAN YODER

9 OF 11

CA5540-DG-LM

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/06/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

Rev.	
Date	
Rev.	

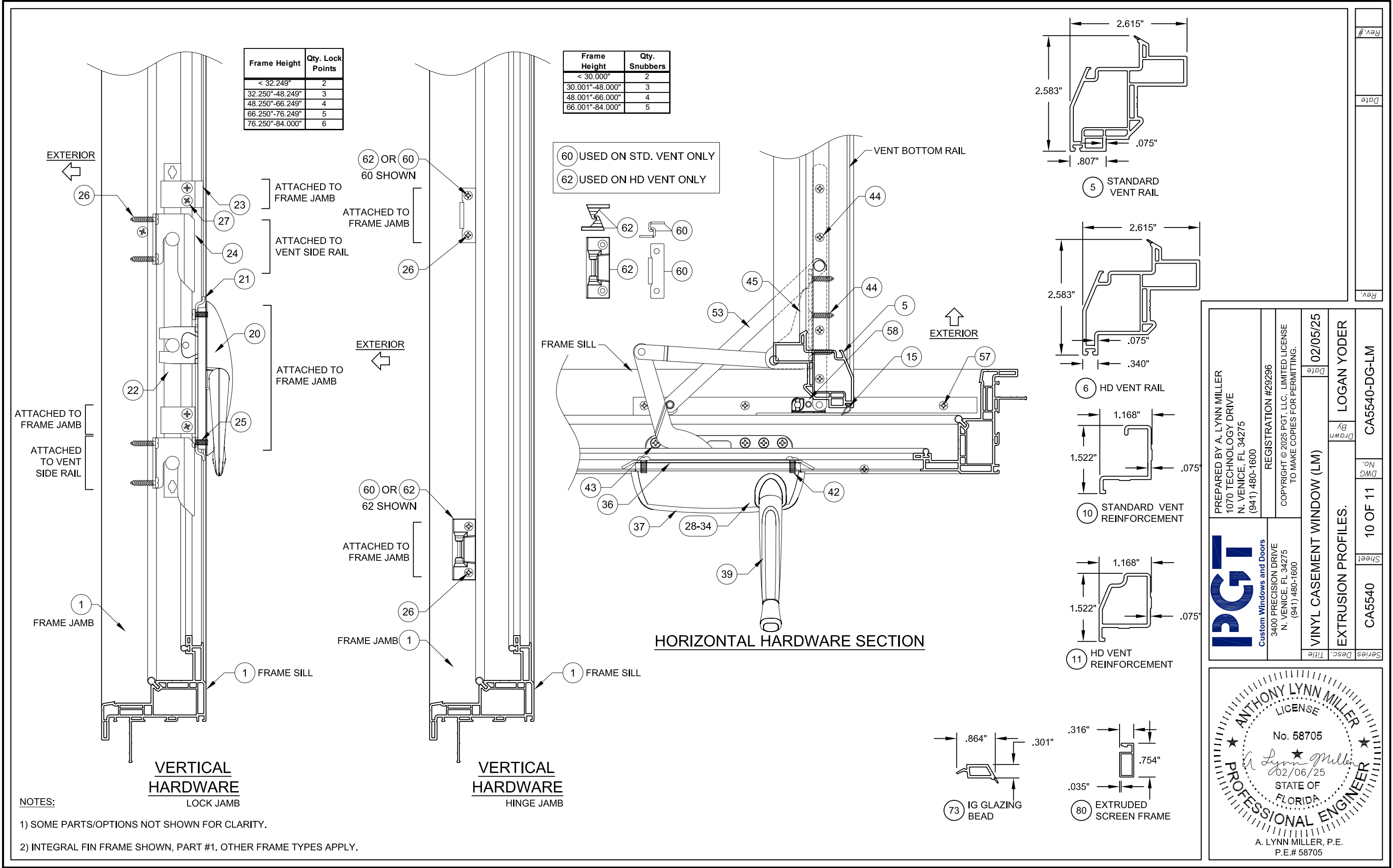
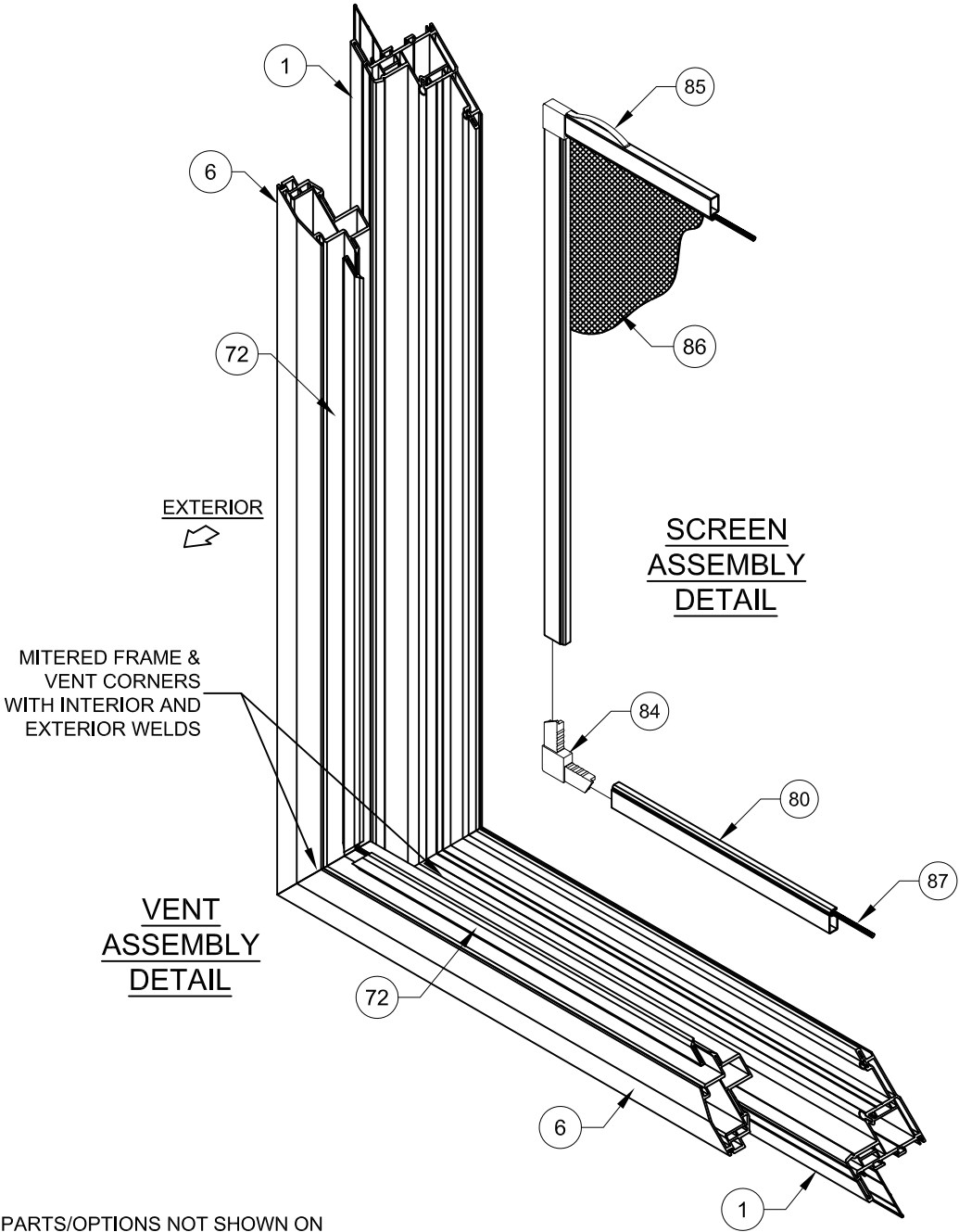


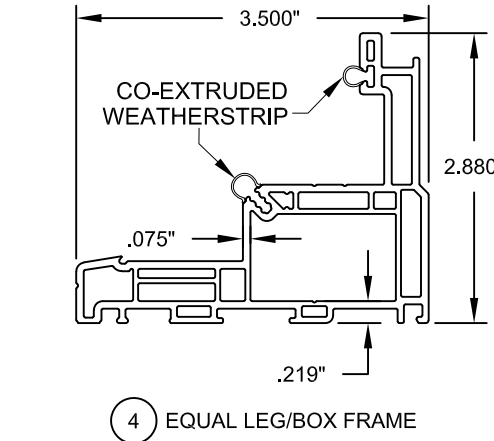
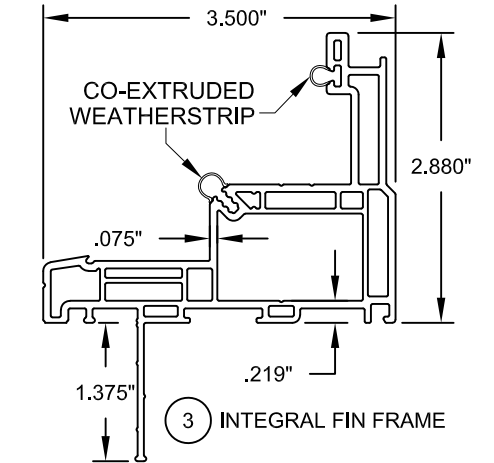
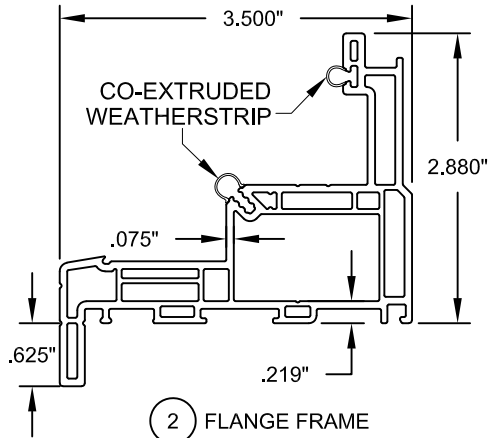
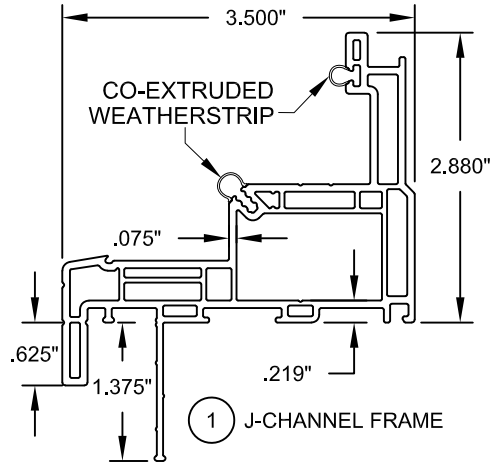
TABLE 8:

#	Part #	Description	Material
1	620125	J-channel Frame	PVC
2	620126	Flange Frame	PVC
3	620127	Integral Fin Frame	PVC
4	620128	Equal Leg/Box Frame	PVC
5	620130	Standard Vent Rail	PVC
6	620173	HD Vent Rail	PVC
10	620163	Standard Vent Reinforcement (Full Length)	Alum. 6005-T5
11	620164	HD Vent Reinforcement (Full Length)	Alum. 6005-T5
15	6TP247	Weatherstrip, 65 +/-1 duro.	Flex PVC
20	7024	Multi-Point Lock	C Steel
21	7011	Multi-Point Lock Flat Support Plate	C Steel
22	varies with size	Tie Bar	C Steel
23	20222	Tie Bar Guide	C Steel
24	7014	Multi-Lock Keeper	C Steel
25	71024X0562PPFX	#10-24 x 9/16" Phl. PH Machine Screw	SS
26	78X34PPTX410	#8 x 3/4" Phl. PH Tek	SS
27	78X112PSAX	#8 x 1-1/2" Phl. FH Tek	SS
28	20249/50	Dyad Operator (narrow vent < or = to 24"), L/R	C Steel
29	20249X/50X	Dyad Operator (narrow vent < or = to 24"), L/R	SS
30	20251/52	Dual Arm Operator (wide vent >24"), L/R	C Steel
31	20251X/52X	Dual Arm Operator (wide vent >24"), L/R	SS
32	7033	Dual Arm Operator Track	SS
33	20241/42	HD Dual Arm Operator, L/R	C Steel
34	20241X/42X	HD Dual Arm Operator, L/R	SS
35	20244	HD Operator Track	SS
36	7031	Operator Backing Plate	C Steel
37	20253	Operator Cover	
38	7030	Operator Gasket White	Neoprene
39		Standard Handle	C Steel
40	7018	Folding Handle	C Steel
41	7019	T-Handle (Thumbtum)	C Steel
42	78X12PPMSX	#8-32 x 1/2" Phl. PH Machine Screw	SS
43	78S34PFAX	#8 x 3/4" Phl. FH	SS
44	78X1PSDX	#8 x 1" Phl. FH Tek	SS
45	7MC7032LH/RH	Stud Bracket, L/R	C Steel
46	7MC7032LHX/RHX	Stud Bracket, L/R	SS
47	20243	HD Stud Bracket, non-handed	C Steel
48	20243X	HD Stud Bracket, non-handed	SS
49	73337LH/RH	Egress Hinge, L/R	C Steel
50	73337LHX/RHX	Egress Hinge, L/R	SS
51	73338LH/RH	Washable Hinge, L/R	C Steel
52	73338LHX/RHX	Washable Hinge, L/R	SS
53	20245/6	HD Washable Hinge, L/R	C Steel
54	20245X/6X	HD Washable Hinge, L/R	SS
55	720247/8	HD Washable Hinge Track, L/R	C Steel
56	720247X/8X	HD Washable Hinge Track, L/R	SS
57	78X34FPAX	#8 x 3/4" Phl. FH w/ #7 Head	SS
58	731877	Operator Slide	Plastic
60	73346	Snubber	C Steel
62	720256	HD Snubber	Die-cast Zinc
63	78X12PPSMSX	#8 x 1/2" Phl. PH	SS
64	20187	Anchor Hole Plug	PVC
73	720136	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.	EPDM
80	67006	Extruded Screen Frame	
84	47040	Screen Corner Key	
85	7CASPm	Tension Spring	
86	61816C34	Screen Cloth	
87	61635/24	.140" Screen Spline (Machine/Hand Rolled)	
90	620160A	Frame Assembly Tube	Alum. 6005-T5
91	620177	Shallow, Flush Cap	PVC
92	620178	Deep, Flush Cap	PVC
93	620132	Frame Assembly Tube End Cap	PVC

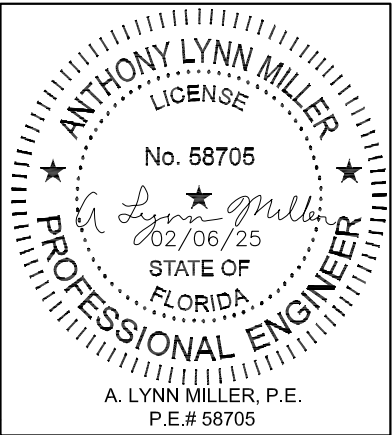


NOTES:

- 1) SOME PARTS/OPTIONS NOT SHOWN ON DRAWING FOR CLARITY.
- 2) J-CHANNEL FRAME SHOWN, PART #1. OTHER FRAME TYPES, PARTS #2 - 4, APPLY.
- 3) ITEMS # 7-9, 12-14, 16-19, 59, 61, 65-72, 75-77, 79, 81-83, 88, 89 & 94-99 ARE NOT USED AND ARE NOT PART OF THIS APPROVAL.
- 4) ENERGI PVC TO BE LABELED FOR AAMA EXTRUDER CODE.



PGI Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC, LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		02/05/25 Date		LOGAN YODER By		CA5540-DG-LM	
	VINYL CASEMENT WINDOW (LM)		BOM, ASSEMBLY & PART LIST		11 OF 11		CA5540			



Rev. #	Date