

SERIES PW4120A IMPACT RESISTANT
FIXED WINDOW

FLORIDA PRODUCT APPROVAL #29700

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.

3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 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.

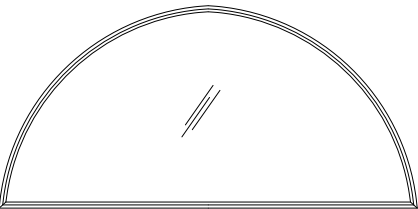
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH FLANGE 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. MAXIMUM SHIM SPACING TO BE 18" WHEN INSTALLING THROUGH THE INTEGRAL FIN.

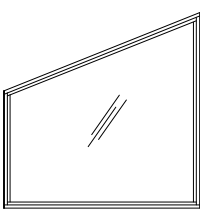
6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO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

7) DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

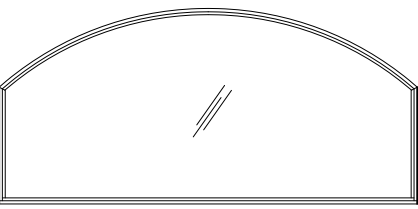
ALL WINDOW SHAPES QUALIFIED, COMMON EXAMPLES SHOWN BELOW:



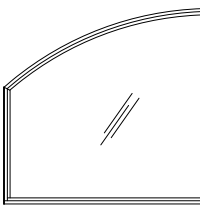
HALF CIRCLE/ARCH



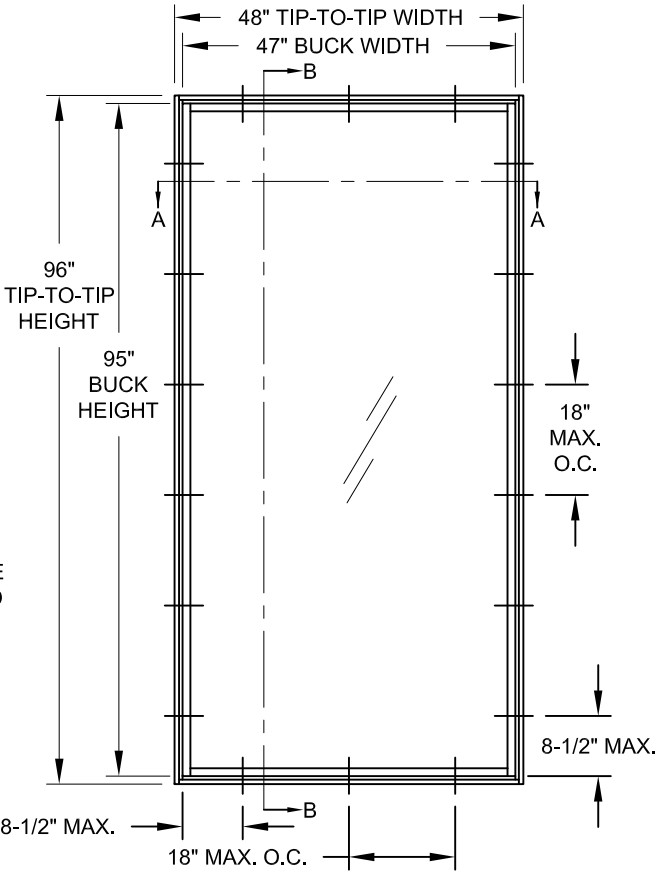
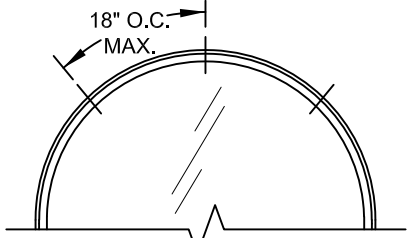
TRAPEZOID



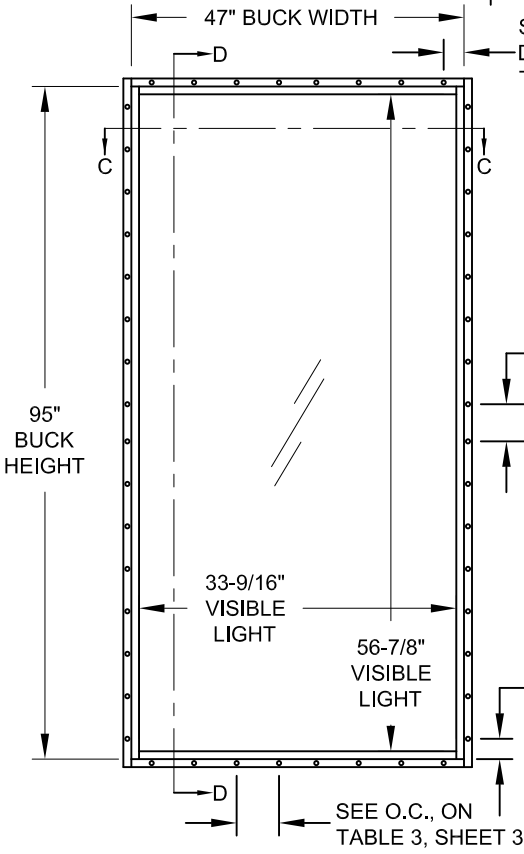
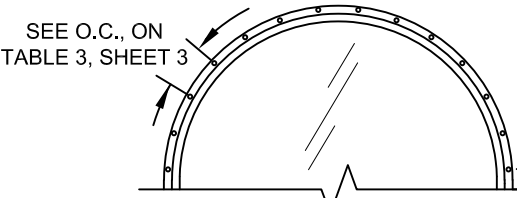
EYEBROW



HALF EYEBROW

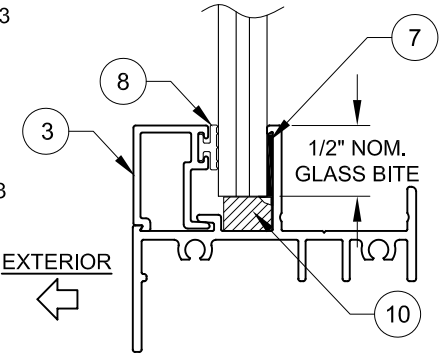


TYP. FLANGE FRAME
ANCHOR LOCATIONS
@ MAX. SIZE

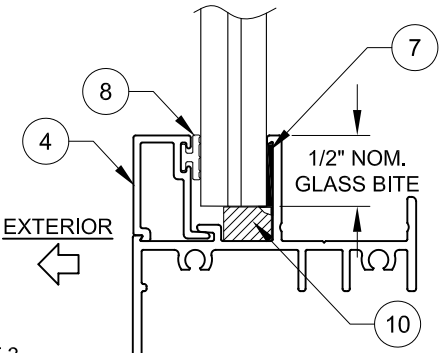


TYP. FIN FRAME
ANCHOR LOCATIONS
@ MAX. SIZE

DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
VARIES, SEE SHEETS 4 & 5	15% OF THE (+) DESIGN PRESSURE UNLESS NOTED OTHERWISE	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



5/16" GLAZING DETAIL



7/16" GLAZING DETAIL

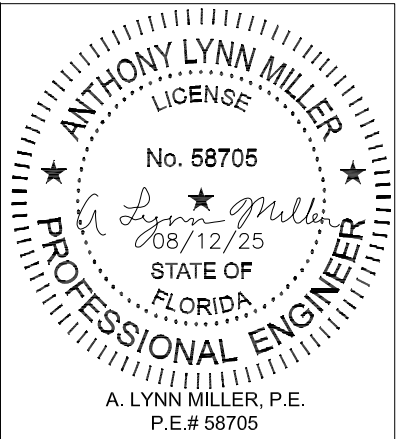
TABLE 1:

Laminated Glass Types	
1	1/8" Annealed, 0.090" PVB, 1/8" Annealed
2	1/8" Heat Strengthened, 0.090" PVB, 1/8" Heat Strengthened
3	3/16" Annealed, 0.090" PVB, 3/16" Annealed
4	3/16" Heat Strengthened, 0.090" PVB, 3/16" Heat Strengthened

INTERLAYER MAY BE SAFLEX PVB OR TROSIFOL PVB
SEE SHEETS 4 & 5 FOR GLASS DETAILS

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.

PGT Custom Windows and Doors			3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600			3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600			PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		
						REGISTRATION #29296			COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		
Title			ALUMINUM FIXED WINDOW (LM)			Date		08/12/25			
Desc.			ELEVATION & GENERAL NOTES			Drawn By		A. MORLESIN			
Series			PW4120A			Sheet		1 OF 5		DWG No.	
										PW4120FPA	



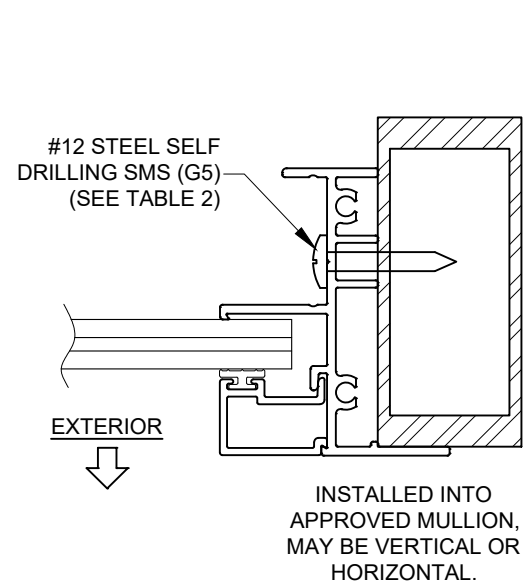
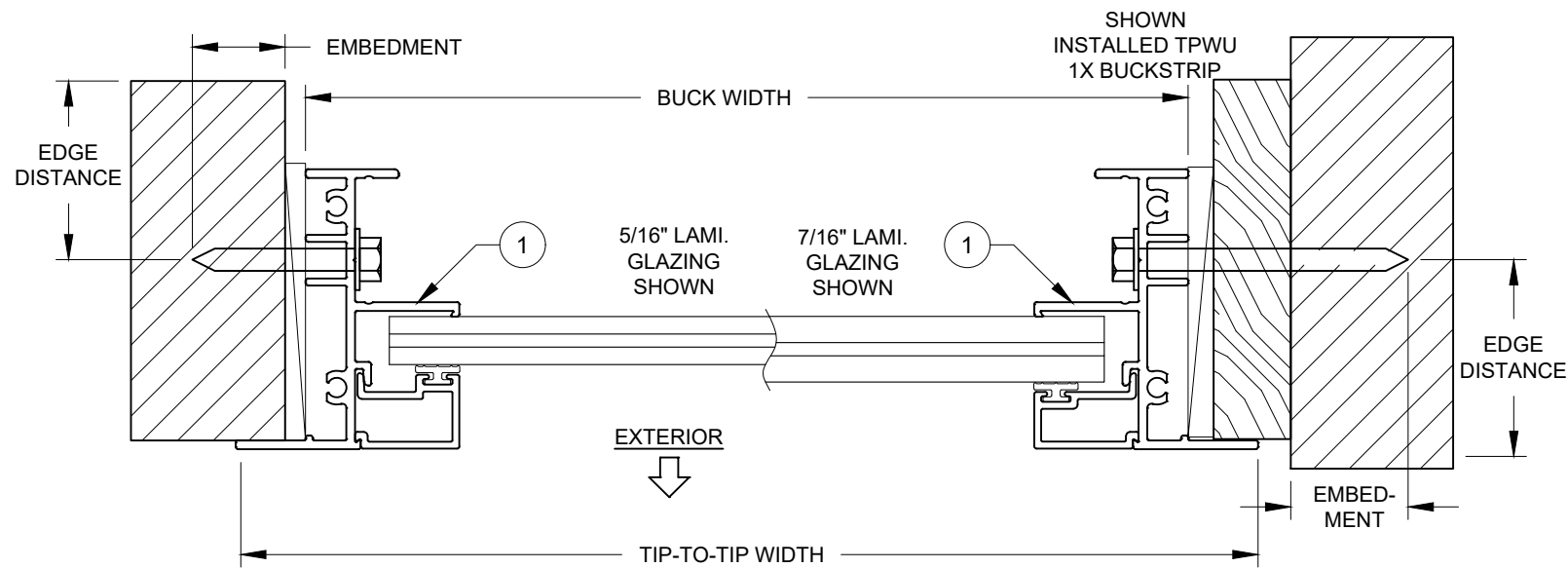
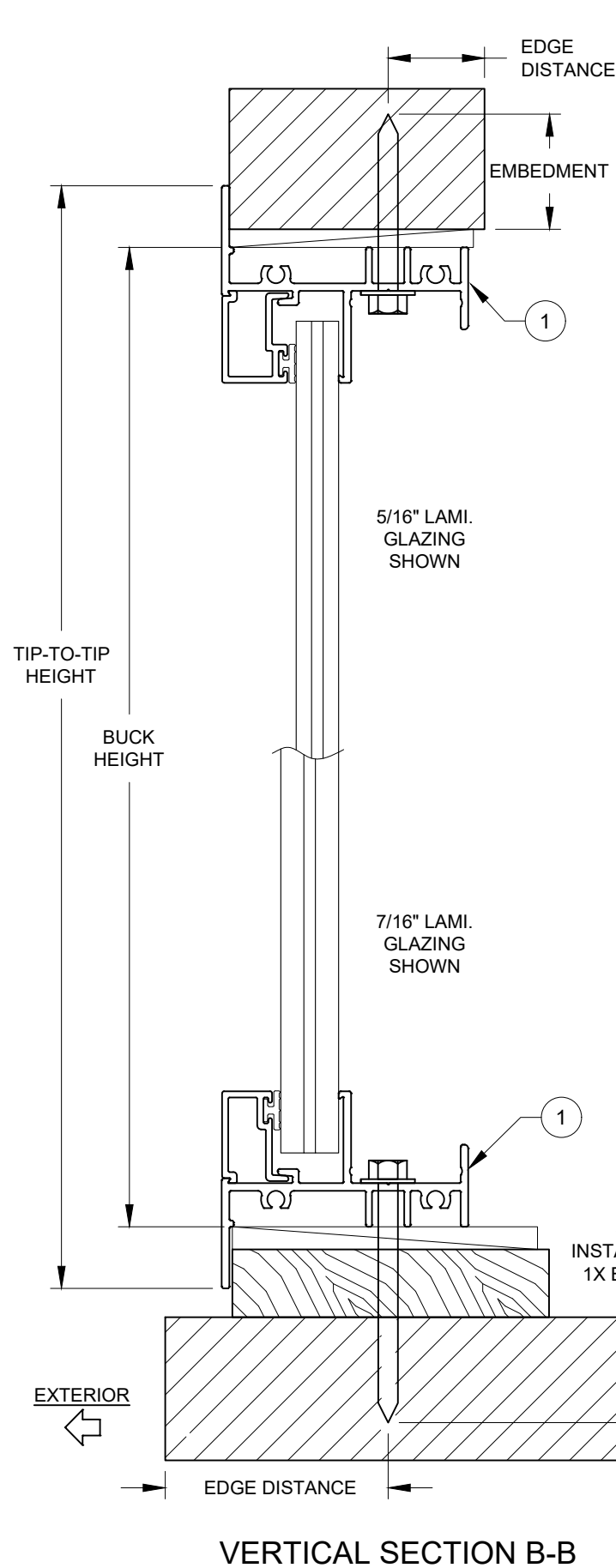


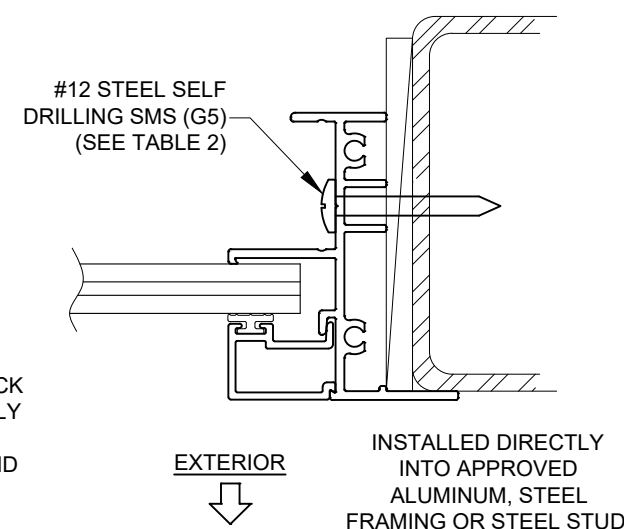
TABLE 2: THRU FRAME ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#12 Steel, 18-8 SS or 410 SS Screw	Southern Pine (SG = .55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.062"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)
	A36 Steel	3/8"	0.050"
1/4" Steel Ultracon+	Southern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.0 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
1/4" 410 SS CreteFlex	Southern Pine (SG = .55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Concrete (min. 3.35 ksi)	2-1/2"	1"
	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"

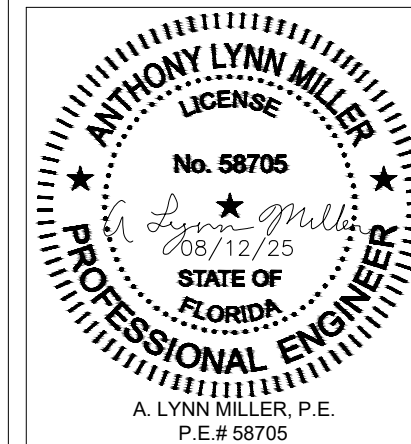
- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

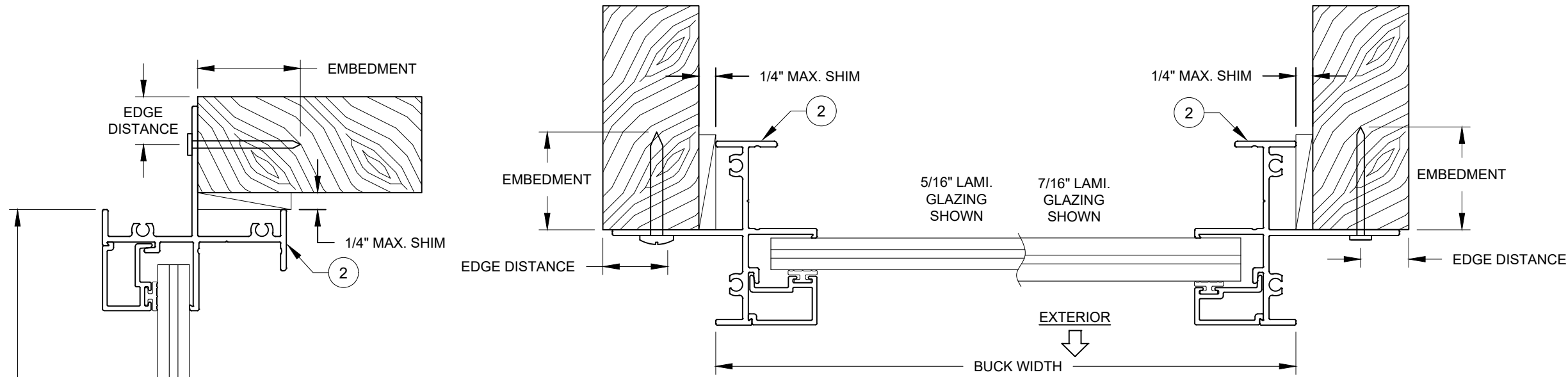
NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 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. 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) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.



PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	ALUMINUM FIXED WINDOW (LM)	By	A. MORLESIN	PW4120FPA
			No.		
			DWG		
			2 OF 5		
PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	ALUMINUM FIXED WINDOW (LM)	Date	08/12/25	PW4120A
			Title		
			Desc.		
			Anchor Information, CROSS SECTION		





HORIZONTAL SECTION C-C

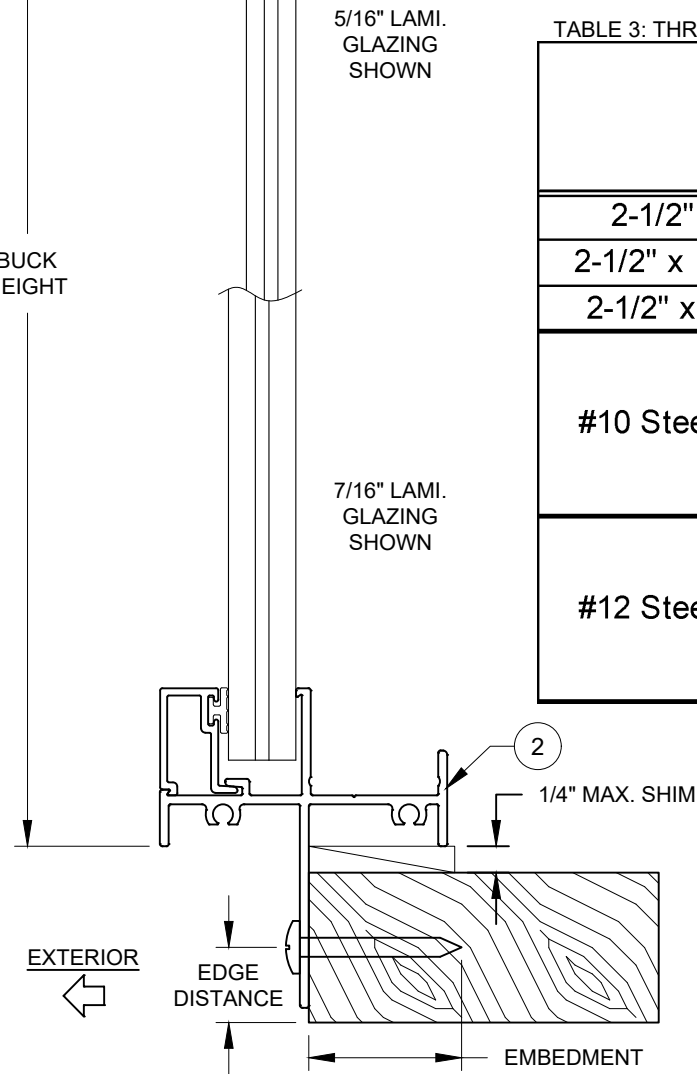
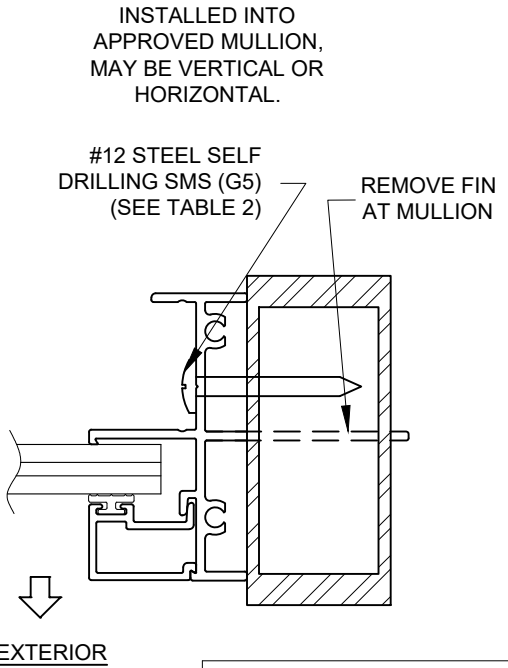
TABLE 3: THRU-FIN ANCHORS

Anchor	Substrate	Min. Embedment or Metal Thickness	Min. Edge Distance	Max. On-center, Distance, OC	Max. Corner Distance
2-1/2" x .113" Box Nail	Southern Pine (SG = .55)	-	3/8"	6"	2-7/8"
2-1/2" x .131" Common Nail	Southern Pine (SG = .55)	-	3/8"		
2-1/2" x .145" Roofing Nail	Southern Pine (SG = .55)	-	3/8"		
#10 Steel SMS Screw (G5)	Southern Pine (SG = .55)	1-3/8"	1/2"	16-9/16"	8-1/2"
	Aluminum, 6063-T5 min	0.125"	3/8"		
	Steel Stud, Gr. 33 min.	0.057"	3/8"		
	A36 Steel	0.050"	3/8"		
#12 Steel SMS Screw (G5)	Southern Pine (SG = .55)	1-3/8"	9/16"	26"	8-1/2"
	Aluminum, 6063-T5 min.	0.125"	7/16"		
	Steel Stud, Gr. 33 min.	0.071"	7/16"		
	A36 Steel	0.050"	7/16"		

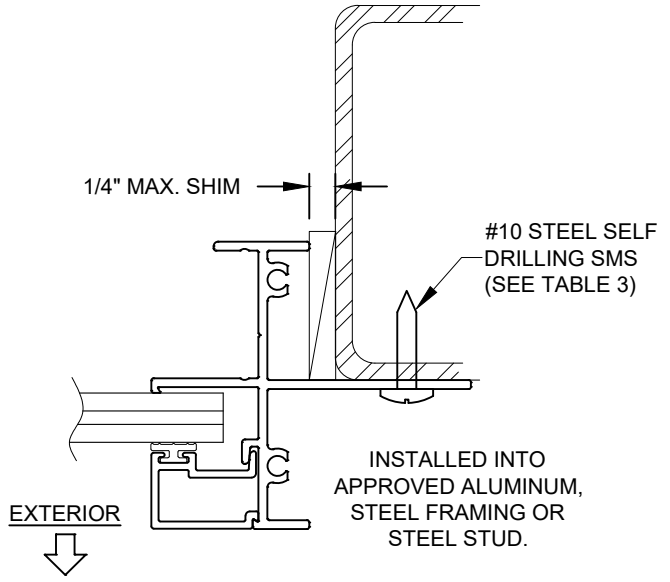
- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ALL SCREW HEAD TYPES ARE APPLICABLE.

NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
2) 2X WOOD FRAMING OR BUCK, 1-1/2" THICK OR GREATER.
3) SEE SHEET 1 FOR SPACING REQUIREMENTS.
4) MAX. SHIM THICKNESS TO BE 1/4".
5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.



VERTICAL SECTION D-D



PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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

REGISTRATION #29296
COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE
TO MAKE COPIES FOR PERMITTING.

ALUMINUM FIXED WINDOW (LM)
ANCHOR INFORMATION,
CROSS SECTION

08/12/25
By A. MORLESIN

No. 3 OF 5

PW4120A

PW4120FPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
08/12/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 4:

For Glass Type 1		Window Design Pressure (+/-, psf)													
		Short Side (in)													
		22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	47"
Long Side (in)	56"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-63.1	+55/-61.5	+55/-60.2	+55/-59.5
	60"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-64.7	+55/-62.2	+55/-60.8	+55/-59.3	+54/-57.8		
	64"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-62.4	+55/-60.6	+55/-58.9	+54.7/-57.3	+53.3/-56			
	68"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-62.2	+55/-60.5	+55/-59	+55/-57.4	+55/-55.6					
	72"	+55/-65	+55/-65	+55/-65	+55/-62.2	+55/-58.6	+55/-56.8	+55/-55.2	+/-53.9						
	75"	+55/-65	+55/-65	+55/-65	+55/-60.5	+55/-56.7	+/-53.9	+/-52.3	+/-51.3						
	80"	+55/-65	+55/-65	+55/-62.9	+55/-57.8	+/-53.8	+/-50.7								
	84"	+55/-65	+55/-65	+55/-61.3	+55/-56	+/-51.8	+/-48.8								
	88"	+55/-65	+55/-63.7	+55/-59.3	+/-54.1	+/-50									
	92"	+55/-65	+55/-62.2	+55/-57.6	+/-52.2										
	95"	+55/-65	+55/-62.1	+55/-56.6	+/-51.4										

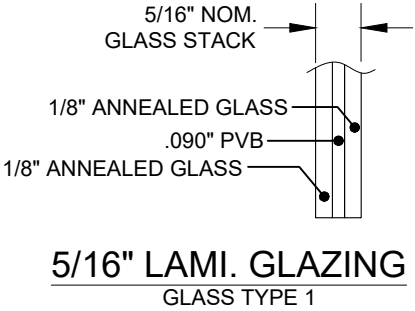
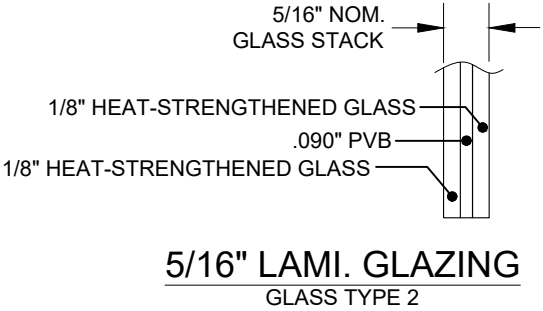
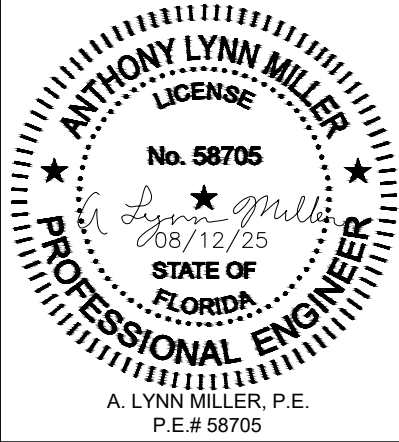


TABLE 5:

For Glass Type 2		Window Design Pressure (+/-, psf)											
		Short Side (in)											
		22"	24"	26"	28"	30"	32"	36"	38"	42"	44"	47"	
Long Side (in)	56"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	
	60"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65		
	64"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65			
	68"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65				
	72"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65					
	75"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65					
	80"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65						
	84"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65						
	88"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65							
	92"	+55/-65	+55/-65	+55/-65	+55/-65								
	95"	+55/-65	+55/-65	+55/-65	+55/-65								



- NOTES:
- 1) BUCK DIMENSIONS SHOWN.
 - 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION.



PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

P**G****T**
Custom Windows and Doors
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296
COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE
TO MAKE COPIES FOR PERMITTING.

ALUMINUM FIXED WINDOW (LM)

08/12/25

A. MORLESIN

By

Drawn

Date

GLAZING INFORMATION &
DESIGN PRESSURES

4 OF 5

PW4120A

Series

Desc.

Title

PW4120FPA

No.

Sheet

TABLE 6:

For Glass Type 3		Window Design Pressure (+/-, psf)						
		Short Side (in)						
		36"	38"	40"	42"	44"	46"	47"
Long Side (in)	72"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	75"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	80"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	84"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	88"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	92"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-64.4	+55/-63.4
	95"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-64	+55/-61.9	+55/-60.9

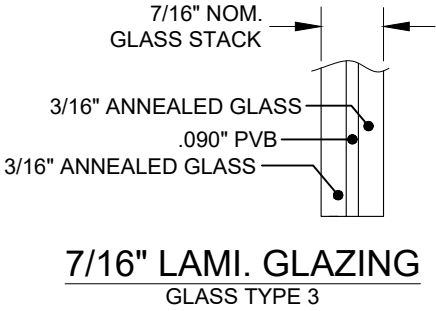


TABLE 7:

For Glass Type 4		Window Design Pressure (+/-, psf)						
		Short Side (in)						
		36"	38"	40"	42"	44"	46"	47"
Long Side (in)	72"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	75"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	80"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	84"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	88"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	92"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65
	95"	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65	+55/-65

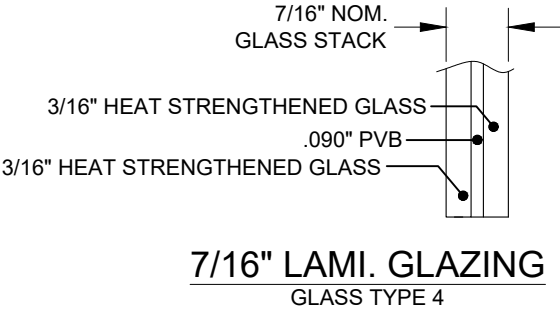
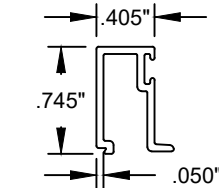
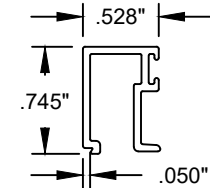
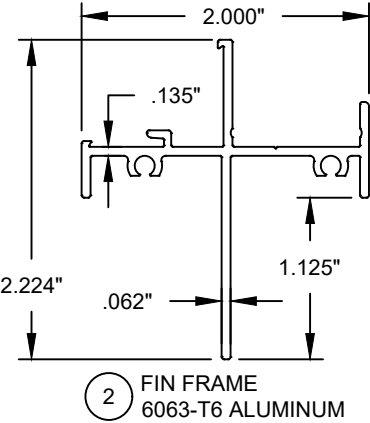
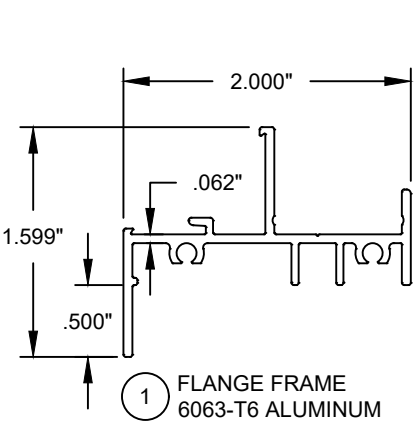


TABLE 8:

Item #	Description
1	Flange Frame
2	Integral Fin Frame
3	Glazing Bead, 5/16" Lami & 3/16" Mono
4	Glazing Bead, 7/16" Lami
7	Dow 791, 899, 983 or RGS-7700 Silicone
8	Vinyl Bulb Glazing Gasket
10	Setting Block 3/16" x 5/16" x 1-1/2"
12	#8 X 1" Panhead SMS (Assembly Screw)



NOTES:

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

PGT Custom Windows and Doors 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		08/12/25	
		COPYRIGHT © 2025 PGT, LLC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.			
PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600					
ALUMINUM FIXED WINDOW (LM) EXTRUSIONS, GLAZING & DESIGN PRESSURE 5 OF 5		Date		A. MORLESIN	
		By		Drawn	
		Dwg No.		PW4120FPA	
		Sheet		PW4120A	
Title		Desc.		Series	

