

SERIES PW7720A
IMPACT RESISTANT, ALUMINUM FIXED 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 FINNS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

TABLE 1:

Type #	Description	Sheet #
1	7/16" Lami (3/16" AN - 0.090" PVB - 3/16" HS)	2
2	7/16" Lami (3/16" HS - 0.090" PVB - 3/16" HS)	3
3	1-1/16" Lami. IG (3/16" TP - 7/16" Air - 3/16" AN - 0.090" PVB - 3/16" HS)	2
4	1-1/16" Lami. IG (3/16" TP - 7/16" Air - 3/16" HS - 0.090" PVB - 3/16" HS)	3
5	7/16" Lami (3/16" AN - 0.090" SG - 3/16" AN)	4
6	7/16" Lami (3/16" HS - 0.090" SG - 3/16" HS)	5
7	1-1/16" Lami. IG (3/16" TP - 7/16" Air - 3/16" AN - 0.090" SG - 3/16" AN)	4
8	1-1/16" Lami. IG (3/16" TP - 7/16" Air - 3/16" HS - 0.090" SG - 3/16" HS)	5

"PVB" = 0.090" TROSIFOL PVB BY KURARAY AMERICA, INC.

"SG" = 0.090" SENTRYGLAS BY KURARAY AMERICA, INC.

VISIBLE LIGHT FORMULAS

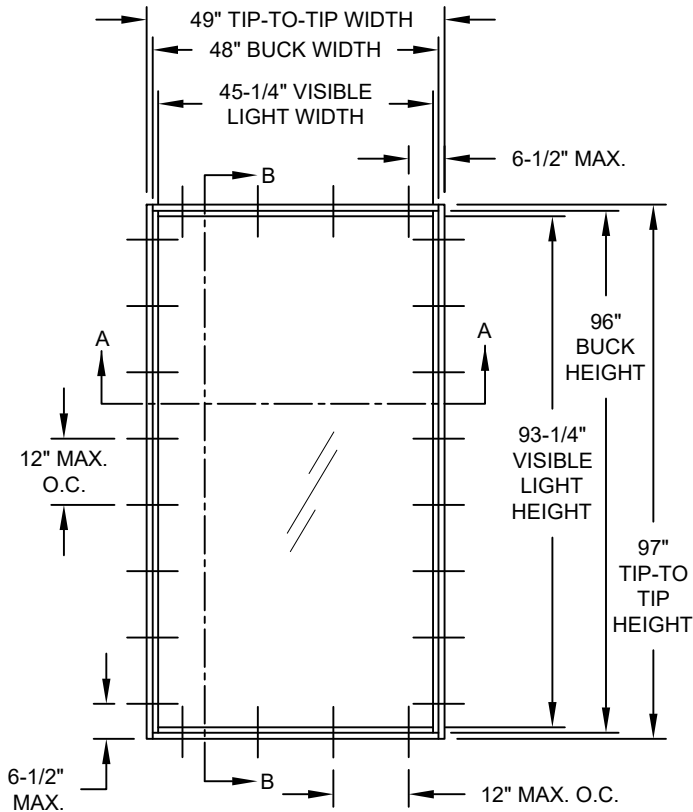
WIDTH: BUCK WIDTH - 2-3/4"
HEIGHT: BUCK HEIGHT - 2-3/4"

GENERAL NOTES.....1
ELEVATIONS.....1
DESIGN PRESSURES/GLZ DETAILS.....2-5
INSTALLATION, FLANGE/EQUEL-LEG.....6
INSTALLATION, INTEGRAL FIN.....7
CORNER ASSEMBLY.....8
EXTRUSION PROFILES/BOM.....8

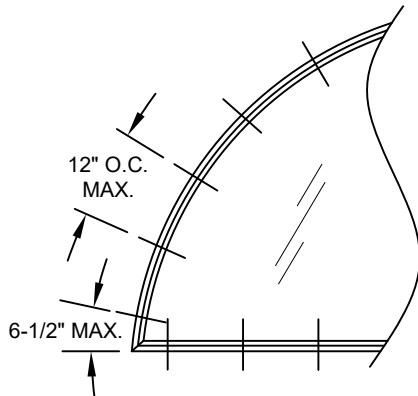
THIS SYSTEM HAS BEEN TESTED TO MEET THE 400 FT-LB KINETIC ENERGY IMPACT LOADING REQUIREMENTS OF ANSI Z97.1 WHEN USING GLASS TYPES 2, 4, 6 OR 8 AND MAY BE USED IN APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD.

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.

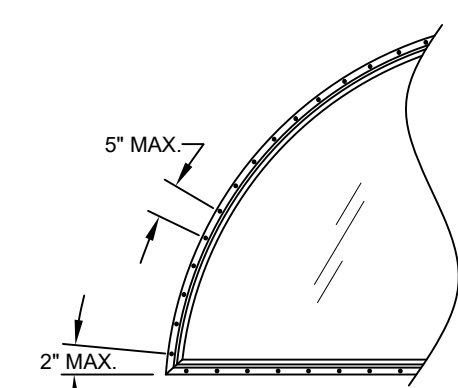
FLORIDA PRODUCT APPROVAL #5012



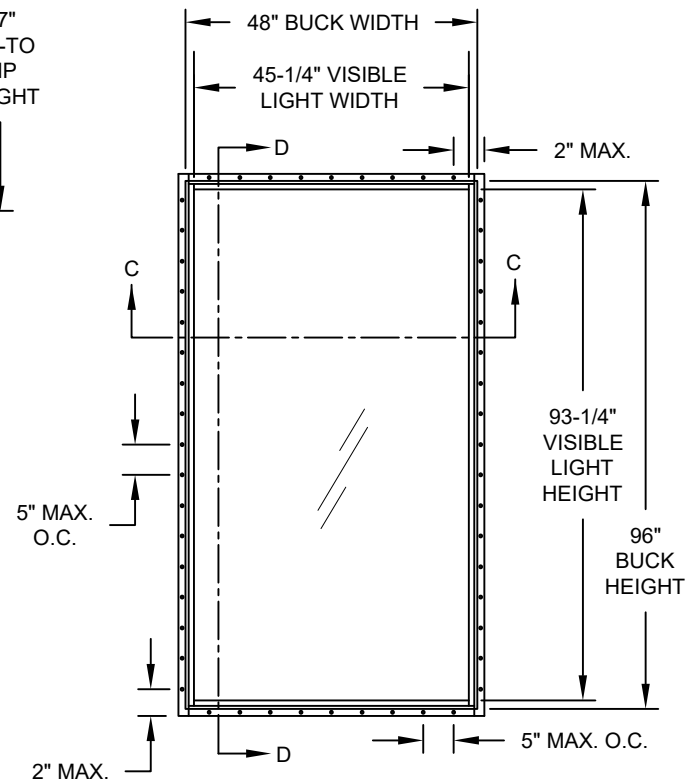
TYP. FLANGED FRAME ELEVATION



TYP. CURVED FLANGED FRAME ELEVATION



TYP. CURVED FIN FRAME ELEVATION



TYP. FIN FRAME ELEVATION

DESIGN PRESSURE RATING
VARIES, SEE TABLES 2-7

WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
LARGE AND SMALL MISSILE
IMPACT RESISTANT
MISSILE LEVEL D

PREPARED BY A. LYNN MILLER
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09/09/26
Date

JENS ROSOWSKI
By

PW7720-NI-HVHZ

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ALUMINUM FIXED WINDOW

GENERAL NOTES & ELEVATION

1 OF 8
Sheet

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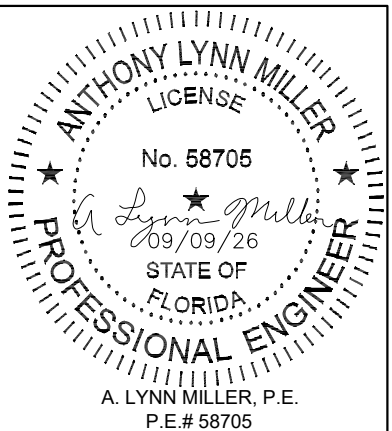


TABLE 2:

		Window Design Pressure (+/-, psf) for Glass Type 1										
		Long Side, Tip to Tip (in)										
		68-7/8	73	77	81	85	89	93	97	101	105	110-1/2
Short Side, Tip to Tip (in)	31	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	33	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	35	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.8	+/-79.4
	37	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.7	+/-77.2	+/-75.1	+/-73.4	+/-72.2
	39	+/-80	+/-80	+/-80	+/-80	+/-80	+/-78.1	+/-75.2	+/-72.5	+/-70.3	+/-68.5	+/-66.3
	41	+/-80	+/-80	+/-80	+/-79.8	+/-77.2	+/-74.3	+/-71.3	+/-67.9	+/-65.1	+/-63.4	+/-61.6
	43	+/-80	+/-80	+/-80	+/-77.4	+/-74.3	+/-71.3	+/-68.2	+/-64.7	+/-61.6	+/-59.8	+/-58.2
	45	+/-80	+/-80	+/-78.9	+/-75.4	+/-72.1	+/-68.9	+/-65.6	+/-62.2	+/-59.7	+/-57.5	
	47	+/-80	+/-80	+/-77.2	+/-73.6	+/-70.1	+/-66.8	+/-63.5	+/-60.3	+/-57.7		
	49	+/-80	+/-79.3	+/-75.6	+/-71.9	+/-68.3	+/-64.9	+/-61.5	+/-58.2			
	51	+/-80	+/-77.5	+/-74.1	+/-70.3	+/-66.7	+/-63.1	+/-59.7				
	53	+/-79.1	+/-75.6	+/-72.4	+/-68.8	+/-65.1	+/-61.5					
	55	+/-77.4	+/-73.8	+/-70.5	+/-67.3	+/-63.5						
	57	+/-75.8	+/-72	+/-68.6	+/-65.3							
	59	+/-74.2	+/-70.3	+/-66.8								
	61	+/-72.7	+/-68.7	+/-65								
	63	+/-71.2	+/-67.1									
	65	+/-69.7	+/-65.5									
	67	+/-68.3										
	68-7/8	+/-67										

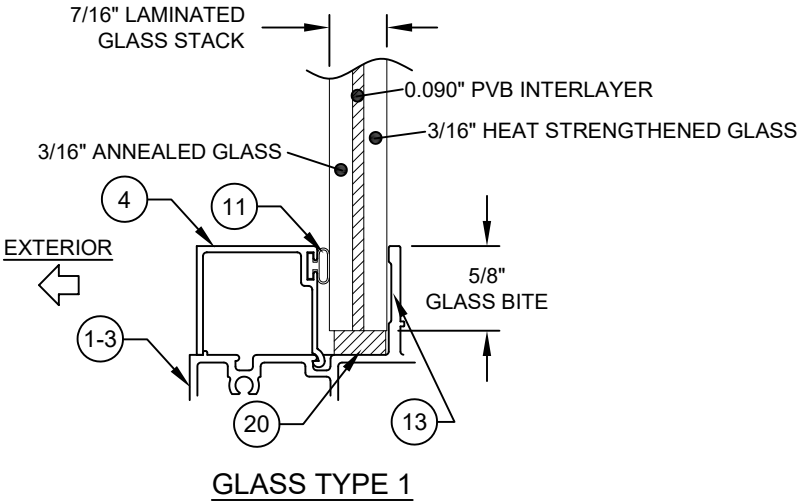
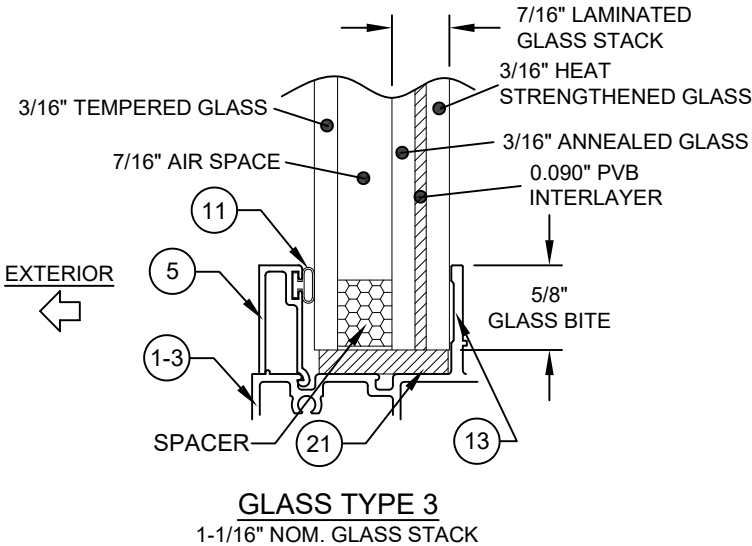


TABLE 3:

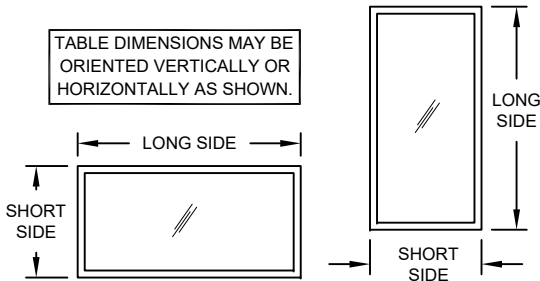
		Window Design Pressure (+/-, psf) for Glass Type 3										
		Long Side, Tip to Tip (in)										
		68-7/8	73	77	81	85	89	93	97	101	105	110-1/2
Short Side, Tip to Tip (in)	31	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	33	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	35	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	37	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	39	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.4	+/-76.4	+/-74.3
	41	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-76.7	+/-73.5	+/-70.9	+/-69
	43	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77	+/-73.1	+/-69.6	+/-66.9	+/-65.2
	45	+/-80	+/-80	+/-80	+/-80	+/-80	+/-77.8	+/-74.1	+/-70.3	+/-67.5	+/-63.9	
	47	+/-80	+/-80	+/-80	+/-80	+/-79.2	+/-75.4	+/-71.7	+/-68.1	+/-65.1		
	49	+/-80	+/-80	+/-80	+/-80	+/-77.2	+/-73.3	+/-69.5	+/-65.8			
	51	+/-80	+/-80	+/-80	+/-79.4	+/-75.3	+/-71.3	+/-67.5				
	53	+/-80	+/-80	+/-80	+/-77.7	+/-73.5	+/-69.5					
	55	+/-80	+/-80	+/-79.6	+/-76	+/-71.8						
	57	+/-80	+/-80	+/-77.5	+/-73.8							
	59	+/-80	+/-79.4	+/-75.4								
	61	+/-80	+/-77.6	+/-73.5								
	63	+/-80	+/-75.8									
	65	+/-78.8	+/-74									
	67	+/-77.2										
	68-7/8	+/-74.9										



1) TIP-TO-TIP DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL LEG WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.



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ALUMINUM FIXED WINDOW
DESIGN PRESSURE TABLES 1

09/09/26
JENS ROSOWSKI
PW7720A
2 OF 8
PW7720-NI-HVHZ

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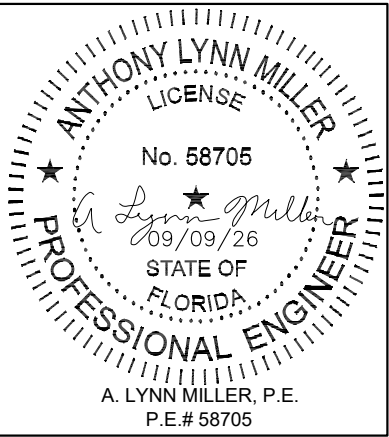
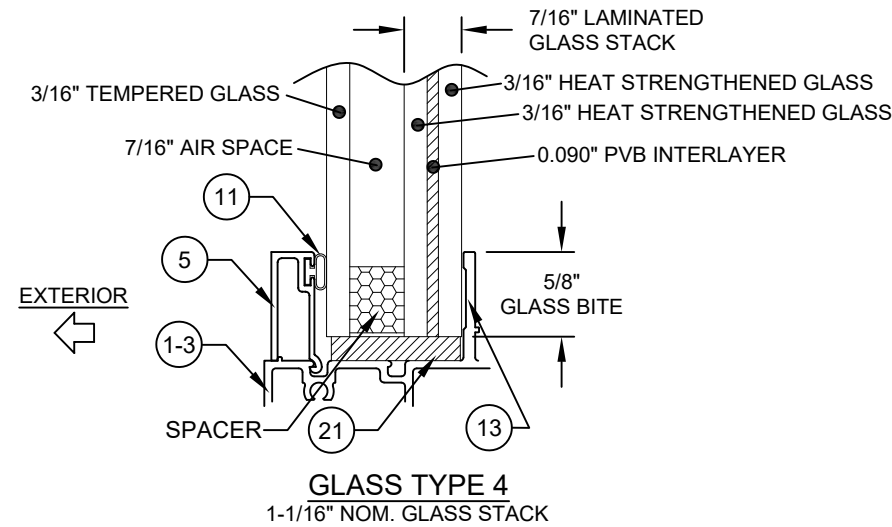
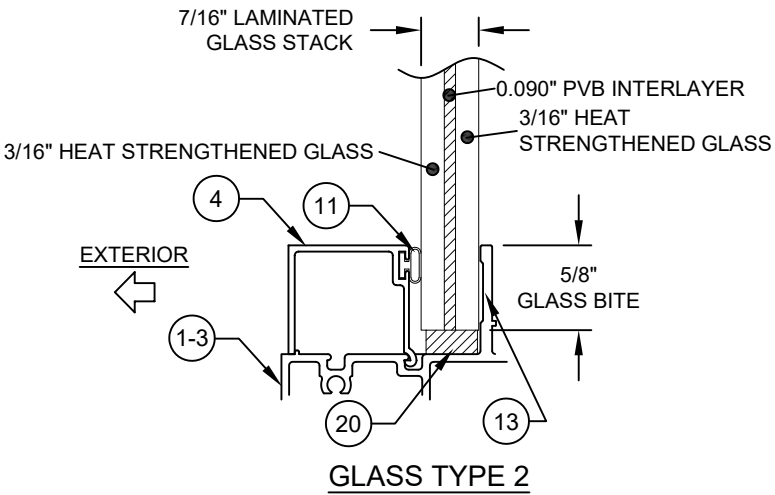
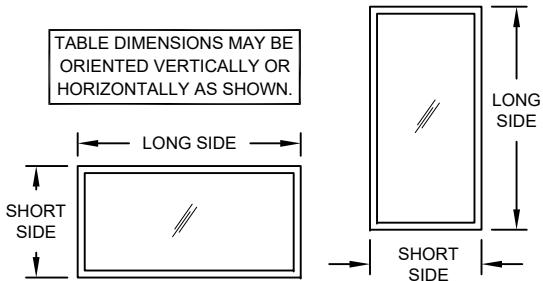


TABLE 4:

		Window Design Pressure (+/-, psf) for Glass Types 2 & 4																			
		Long Side, Tip to Tip (in)																			
		68-7/8	73	77	81	85	89	93	97	101	105	110-1/2	113	117	121	125	129	133	137	141	145
Short Side, Tip to Tip (in)	31	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	33	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	35	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80			
	37	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80				
	39	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80						
	41	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80								
	43	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80									
	45	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80										
	47	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80											
	49	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80												
	51	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80													
	53	+/-80	+/-80	+/-80	+/-80	+/-80	+/-79.1														
	55	+/-80	+/-80	+/-80	+/-80	+/-78.6															
	57	+/-80	+/-80	+/-80	+/-79.1																
	59	+/-80	+/-80	+/-80																	
	61	+/-80	+/-80	+/-79.3																	
	63	+/-80	+/-80																		
	65	+/-80	+/-80																		
	67	+/-80																			
	68-7/8	+/-80																			



- 1) TIP-TO-TIP DIMENSIONS SHOWN. FOR INTEGRAL FIN AND EQUAL LEG WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.
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ALUMINUM FIXED WINDOW

DESIGN PRESSURE TABLES 2

PW7720A

PW7720-NI-HVHZ

09/09/26

JENS ROSOWSKI

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Sheet

DWG No.

By

Date

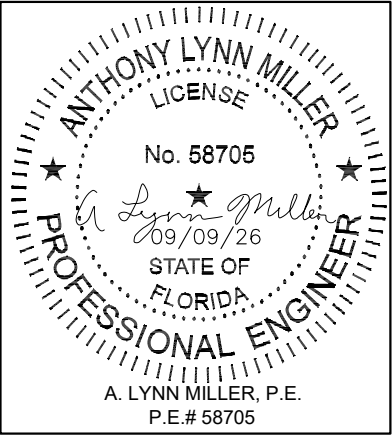


TABLE 5:

		Window Design Pressure (+/-, psf) for Glass Type 5												
		Long Side, Tip to Tip (in)												
		68-7/8	73	77	78-3/4	81	85	89	93	97	101	105	109	110-1/2
Short Side, Tip to Tip (in)	37	+90/-130	+90/-127.5	+90/-123.5	+90/-121.7	+90/-119.8	+90/-116.5	+90/-113.5	+90/-111	+90/-108.5	+90/-106.3	+90/-104.5	+90/-104.5	+90/-104.5
	39	+90/-126.1	+90/-120	+90/-114.5	+90/-112.9	+90/-111	+90/-107.5	+90/-104.5	+90/-101.7	+90/-99.5	+90/-97.7	+90/-96.1	+90/-94.6	+90/-94.1
	41	+90/-120.1	+90/-113.5	+90/-107.3	+90/-105.2	+90/-103	+90/-100.5	+90/-97.8	+90/-94.9	+90/-92	+/-89.6	+/-88	+/-86.5	+/-86
	43	+90/-114.4	+90/-107.5	+90/-102.5	+90/-100.7	+90/-98.6	+90/-95.2	+90/-92.2	+/-89.1	+/-85.8	+/-83	+/-81.4	+/-80.4	+/-80.1
	45	+90/-108.7	+90/-102.5	+90/-98.8	+90/-97.1	+90/-94.9	+90/-91	+/-87.3	+/-84.1	+/-81.7	+/-79.7	+/-77.8	+/-76.1	+/-75.6
	47	+90/-104.4	+90/-99.8	+90/-95.7	+90/-93.9	+90/-91.6	+/-87.5	+/-83.6	+/-81	+/-78.9	+/-76.7	+/-74.7	+/-72.7	+/-72
	49	+90/-101.1	+90/-97	+90/-92.8	+90/-90.9	+/-88.5	+/-84.3	+/-81.2	+/-78.5	+/-76.1	+/-73.9	+/-71.7	+/-69.6	+/-68.9
	51	+90/-98.1	+90/-94.1	+90/-90.1	+/-88.2	+/-85.7	+/-82	+/-79.1	+/-76.3	+/-73.6	+/-71.2	+/-68.9	+/-66.8	+/-65.9
	53	+90/-95.3	+90/-91.1	+/-87.4	+/-85.6	+/-83.3	+/-80	+/-77	+/-74.1	+/-71.3	+/-68.7	+/-66.3	+/-64	+/-63.2
	55	+90/-92.5	+/-88.2	+/-84.3	+/-82.9	+/-81.4	+/-78.1	+/-74.9	+/-71.9	+/-69.1	+/-66.4	+/-63.9	+/-61.8	+/-61.2
	57	+/-89.8	+/-85.3	+/-81.8	+/-80.6	+/-79	+/-76.2	+/-73	+/-69.9	+/-66.9	+/-64.1	+/-61.9	+/-60.1	
	59	+/-87.1	+/-82.8	+/-79.7	+/-78.4	+/-76.8	+/-74	+/-71.1	+/-67.9	+/-64.8	+/-62.2	+/-60.3		
	61	+/-84.6	+/-80.8	+/-77.6	+/-76.2	+/-74.6	+/-71.7	+/-69	+/-65.9	+/-62.8	+/-60.8			
	63	+/-82.5	+/-78.9	+/-74.6	+/-73.2	+/-71.4	+/-68.4	+/-65.5	+/-62.9	+/-60.9				
	65	+/-80.7	+/-77	+/-73.6	+/-72.2	+/-70.4	+/-67.3	+/-64.4	+/-62					
	67	+/-79	+/-75.3	+/-71.7	+/-70.2	+/-68.4	+/-65.2	+/-62.4						
	68-7/8	+/-77.3	+/-73.6	+/-70	+/-68.5	+/-66.6	+/-63.3	+/-61.1						
	73	+/-73.6	+/-70.2	+/-66.5	+/-64.8	+/-62.9	+/-60.5							
	77	+/-70	+/-66.5	+/-63.2	+/-61.9									
	78-3/4	+/-68.5	+/-64.8	+/-61.9	+/-60.9									

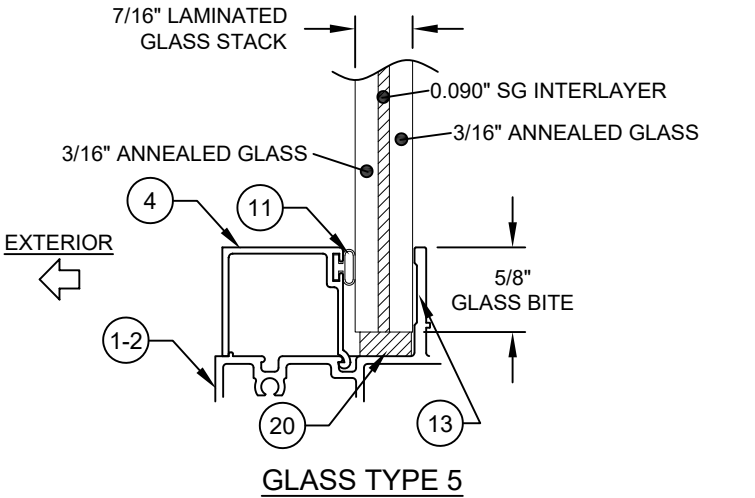
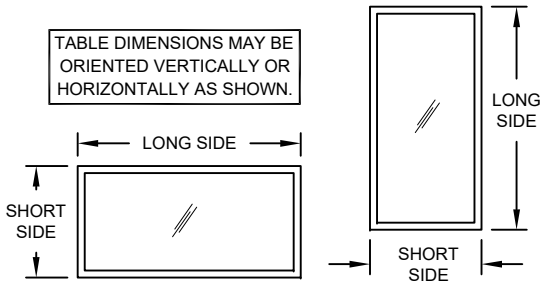
TABLE 6:

		Window Design Pressure (+/-, psf) for Glass Type 7												
		Long Side (in)												
		68-7/8	73	77	78-3/4	81	85	89	93	97	101	105	109	110-1/2
Short Side (in)	31	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	33	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	35	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	37	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-128.3	+90/-125.4	+90/-122.6	+90/-120.1	+90/-118.1	+90/-118.1	+90/-118.1
	39	+90/-130	+90/-130	+90/-129.4	+90/-127.5	+90/-125.4	+90/-121.5	+90/-118.1	+90/-114.9	+90/-112.5	+90/-110.4	+90/-108.6	+90/-106.9	+90/-106.3
	41	+90/-130	+90/-128.3	+90/-121.2	+90/-118.9	+90/-116.4	+90/-113.6	+90/-110.5	+90/-107.2	+90/-103.9	+90/-101.3	+90/-99.4	+90/-97.7	+90/-97.1
	43	+90/-129.3	+90/-121.5	+90/-115.8	+90/-113.8	+90/-111.4	+90/-107.5	+90/-104.2	+90/-100.6	+90/-97	+90/-93.8	+90/-92	+90/-90.9	+90/-90.5
	45	+90/-122.9	+90/-115.8	+90/-111.6	+90/-109.7	+90/-107.3	+90/-102.8	+90/-98.7	+90/-95	+90/-92.3	+90/-90.1	+/-87.9	+80/-85.9	+80/-85.4
	47	+90/-118	+90/-112.7	+90/-108.1	+90/-106.1	+90/-103.5	+90/-98.8	+90/-94.4	+90/-91.5	+/-89.1	+/-86.7	+80/-84.4	+80/-82.1	+80/-81.3
	49	+90/-114.2	+90/-109.6	+90/-104.8	+90/-102.7	+90/-100	+90/-95.3	+90/-91.8	+/-88.7	+/-86	+80/-83.5	+80/-81	+/-78.7	+/-77.8
	51	+90/-110.9	+90/-106.3	+90/-101.8	+90/-99.6	+90/-96.9	+90/-92.7	+/-89.3	+/-86.2	+80/-83.2	+80/-80.5	+/-77.9	+/-75.4	+/-74.5
	53	+90/-107.7	+90/-102.9	+90/-98.7	+90/-96.7	+90/-94.1	+90/-90.4	+/-87	+80/-83.7	+80/-80.6	+/-77.7	+/-74.9	+/-72.3	+/-71.4
	55	+90/-104.5	+90/-99.6	+90/-95.3	+90/-93.7	+90/-91.9	+/-88.3	+80/-84.6	+80/-81.3	+/-78.1	+/-75.1	+/-72.2	+/-69.8	+/-69.1
	57	+90/-101.5	+90/-96.4	+90/-92.5	+90/-91	+/-89.3	+80/-86.1	+80/-82.4	+/-78.9	+/-75.6	+/-72.5	+/-69.9	+/-67.9	
	59	+90/-98.5	+90/-93.5	+/-90	+/-88.5	+80/-86.8	+80/-83.6	+80/-80.3	+/-76.7	+/-73.3	+/-70.3	+/-68.2		
	61	+90/-95.6	+90/-91.3	+/-87.7	+80/-86.2	+80/-84.3	+80/-81	+/-77.9	+/-74.5	+/-71	+/-68.7			
	63	+90/-92.2	+/-88.1	+80/-84.3	+80/-82.7	+80/-80.7	+/-77.3	+/-74	+80/-80.7	+/-77.7	+/-74.9			
	65	+90/-91.2	+/-87	+80/-83.2	+80/-81.6	+/-79.6	+/-76.1	+/-72.8	+/-70					
	67	+/-89.3	+80/-85	+80/-81	+/-79.4	+/-77.3	+/-73.7	+/-70.5						
	68-7/8	+/-87.3	+80/-83.2	+/-79.1	+/-77.4	+/-75.2	+/-71.6	+/-69						
	73	+80/-83.2	+/-79.4	+/-75.1	+/-73.2	+/-71	+/-68.4							
	77	+/-79.1	+/-75.1	+/-71.4	+/-69.9									
	78-3/4	+/-77.4	+/-73.2	+/-69.9	+/-68.8									

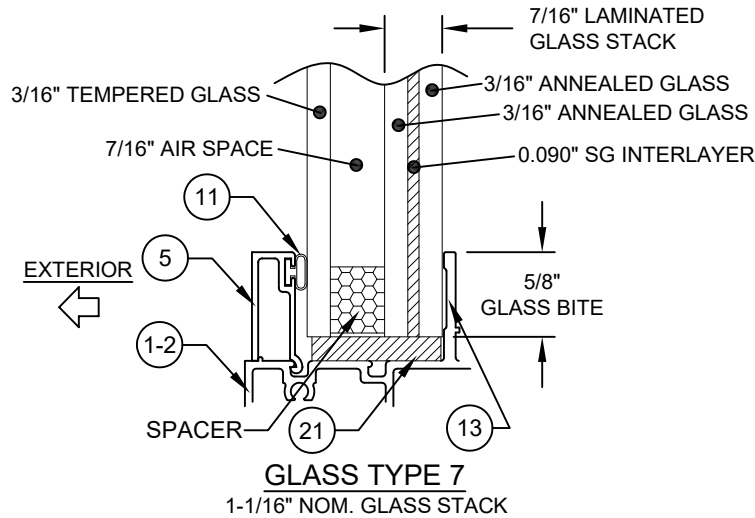
1) TIP-TO-TIP DIMENSIONS SHOWN. FOR EQUAL LEG WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.



FIN FRAMES ARE ONLY TO BE USED WITH GLASS TYPES 1-4 (PVB INTERLAYER), NOT TO BE USED WITH GLASS TYPES 5-8, (SG INTERLAYER).



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3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

09/09/26

By JENS ROSOWSKI

ALUMINUM FIXED WINDOW

DESIGN PRESSURE TABLES 3

PW7720A

No. DWG

4 OF 8

Sheet

Series

PW7720-NI-HVHZ

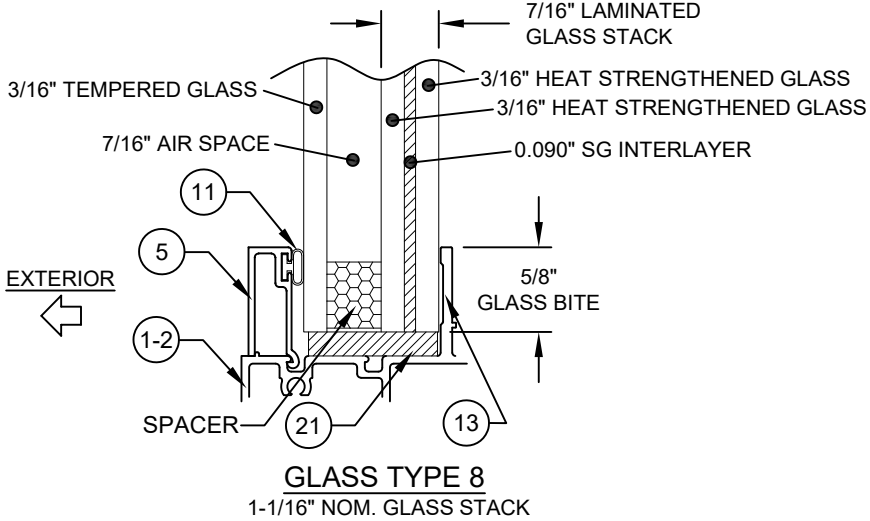
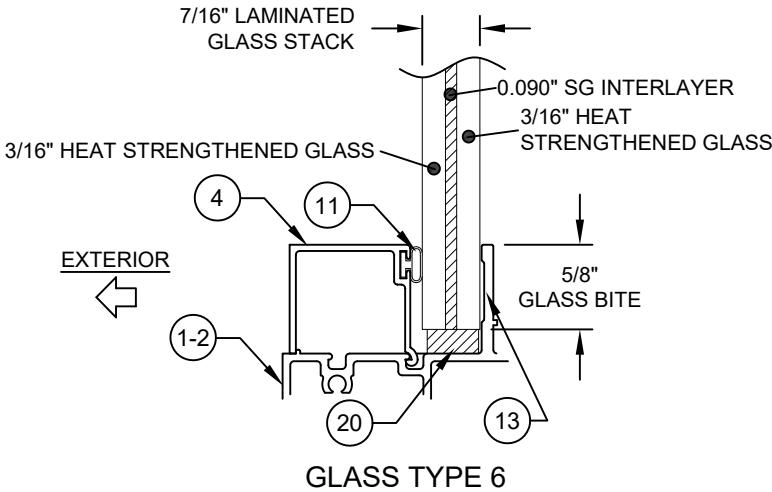
PW7720-NI-HVHZ

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

TABLE 7:

		Window Design Pressure (+/-, psf) for Glass Types 6 & 8																			
		Long Side, Tip to Tip (in)																			
		68-7/8	73	77	78-3/4	81	85	89	93	97	101	105	109	110-1/2	113	117	121	125	129	137	145
Short Side, Tip to Tip (in)	31	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	33	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130
	35	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110
	37	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110
	39	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110
	41	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110
	43	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110
	45	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	
	47	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110		
	49	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110			
	51	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+89.4/-128.9	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110				
	53	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-128.1	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110					
	55	+90/-130	+90/-130	+90/-130	+90/-130	+90/-130	+88.8/-128.1	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110						
	57	+90/-130	+90/-130	+90/-130	+90/-130	+89.4/-129	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110								
	59	+90/-130	+90/-130	+90/-130	+89.5/-129.1	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110									
	61	+90/-130	+90/-130	+89.6/-129.3	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110										
	63	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110											
	65	+90/-130	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110												
	67	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110													
	68-7/8	+90/-130	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110													
	73	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110	+80/-110														
	77	+80/-110	+80/-110	+80/-110	+80/-110																
	78-3/4	+80/-110	+80/-110	+80/-110	+80/-110																

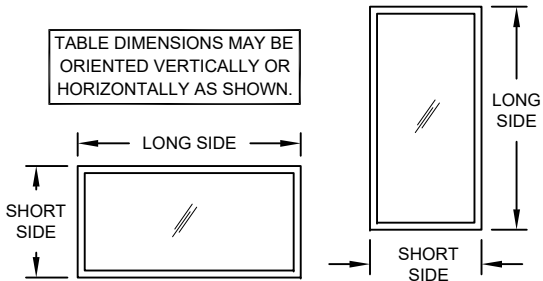
FIN FRAMES ARE ONLY TO BE USED WITH GLASS TYPES 1-4 (PVB INTERLAYER), NOT TO BE USED WITH GLASS TYPES 5-8, (SG INTERLAYER).



1) TIP-TO-TIP DIMENSIONS SHOWN. FOR EQUAL LEG WINDOWS, SUBTRACT 1" FROM THE TIP-TO-TIP DIMENSION IN THE TABLE TO DETERMINE THE WINDOW SIZE.

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

3) FOR ARCHITECTURAL WINDOWS, FIND THE SMALLEST WINDOW SIZE IN THE TABLE ABOVE WHICH THE OVERALL DIMENSIONS COMPLETELY FIT WITHIN.



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

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

REGISTRATION #29296

ALUMINUM FIXED WINDOW

DESIGN PRESSURE TABLES 4

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PW7720A

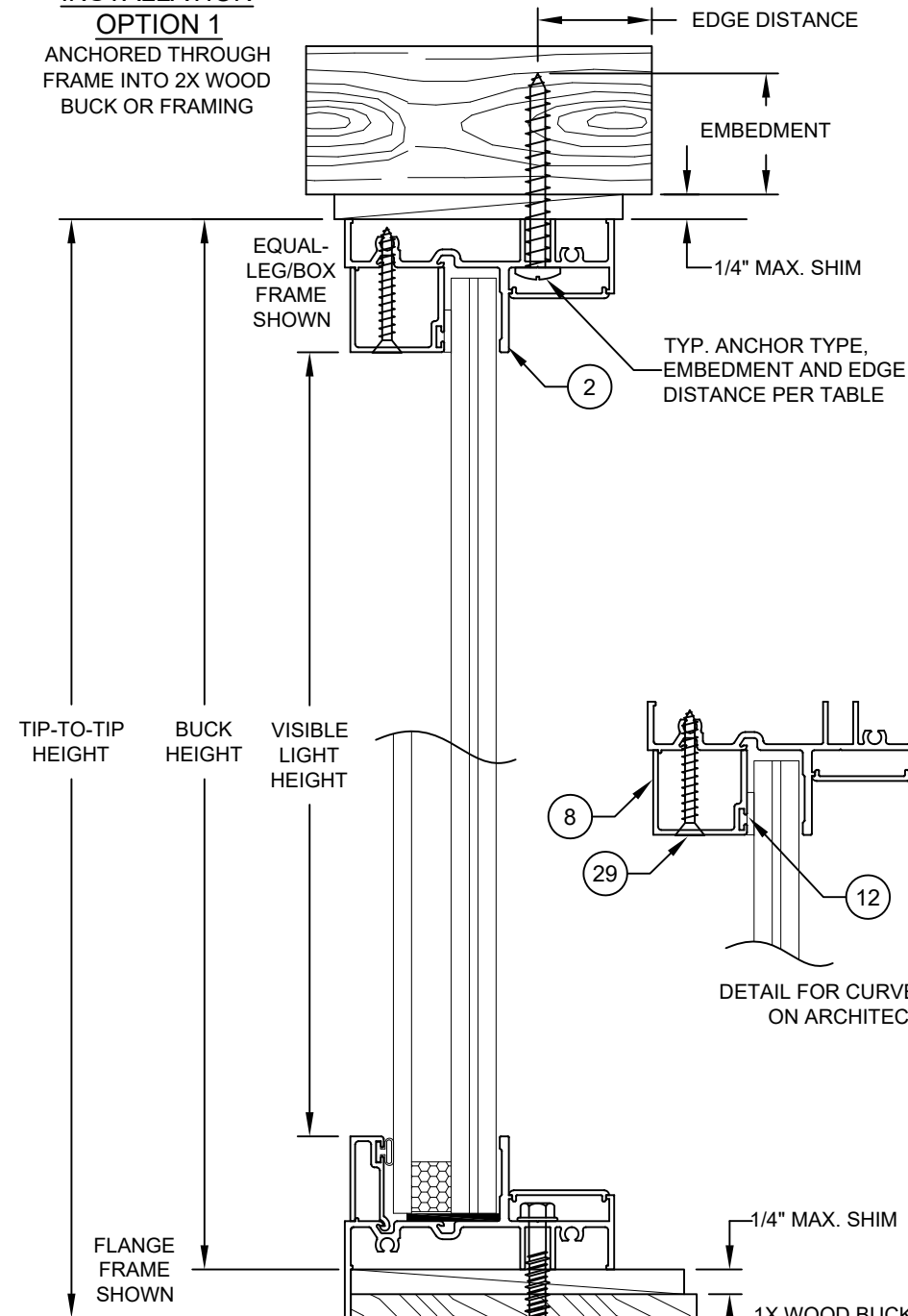
5 OF 8

PW7720-NI-HVHZ

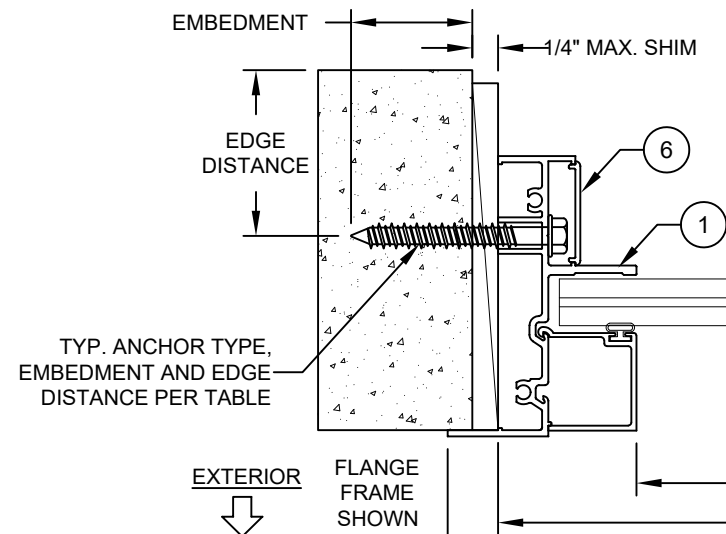
ANTHONY LYNN MILLER
LICENSE
No. 58705
09/09/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

INSTALLATION
OPTION 1

ANCHORED THROUGH
FRAME INTO 2X WOOD
BUCK OR FRAMING

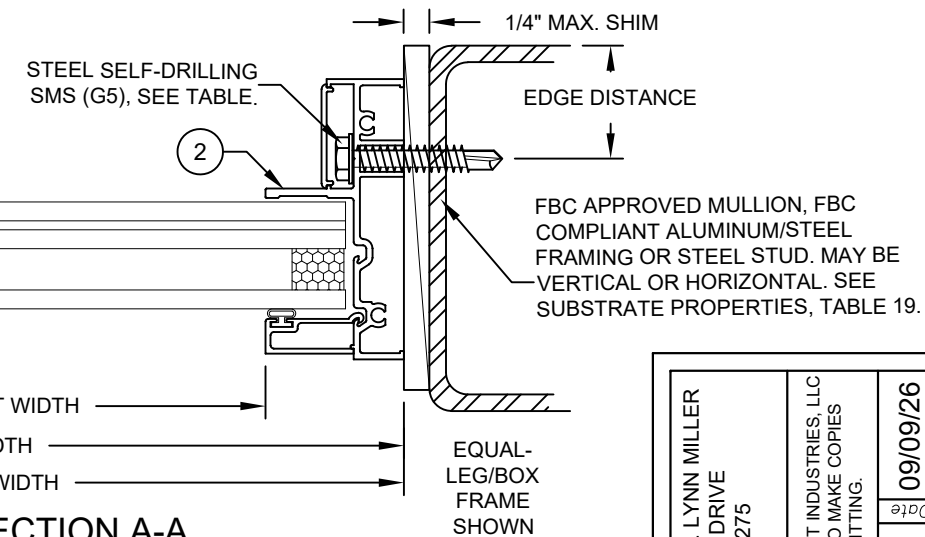


INSTALLATION OPTION 3
ANCHORED THROUGH FRAME
DIRECTLY INTO CONCRETE/CMU



INSTALLATION OPTION 4

ANCHORED THROUGH FRAME INTO FPA
APPROVED MULLION, FBC COMPLIANT
ALUMINUM/STEEL FRAMING OR STEEL
STUD. MAY BE VERTICAL OR HORIZONTAL.
SEE SUBSTRATE PROPERTIES



HORIZONTAL SECTION A-A

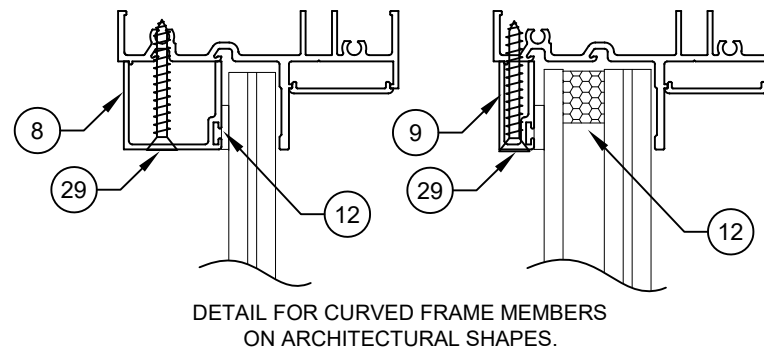


TABLE 7: ANCHORS INSTALLED THROUGH FRAME

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#12 or #14 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG=0.55)	9/16"	1-3/8"
	Aluminum, 6063-T5 min.	3/8"	0.063" *
	A36 Steel	3/8"	0.063" *
	Steel Stud, Gr. 33 min.	3/8"	0.045" (18 Ga) *
1/4" 410 SS CreteFlex	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
1/4" 304 SS Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	3"	1-1/4"
1/4" Steel Ultracon+	Concrete (min. 3 ksi)	1-3/16"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	1-1/2"	1-1/4"
5/16" Steel Ultracon	Concrete (min. 3.5 ksi)	1-1/4"	1-3/4"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"

- 1) * MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
4) ALL SCREWHEAD TYPES ARE APPLICABLE.

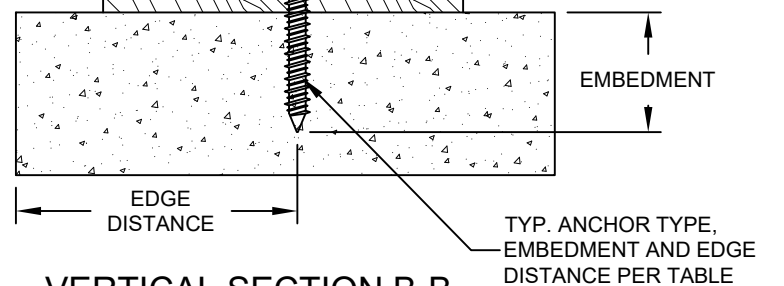
INSTALLATION NOTES:

- 1) USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) WOOD BUCKS DEPICTED ON THIS SHEET AS "1X", ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1-1/2". 1X WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

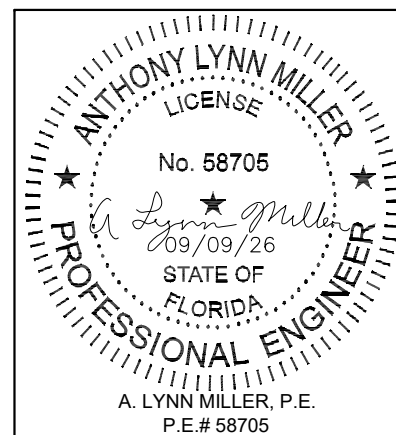
INSTALLATION
OPTION 2

ANCHORED THROUGH
FRAME AND 1X
BUCKSTRIP INTO
CONCRETE

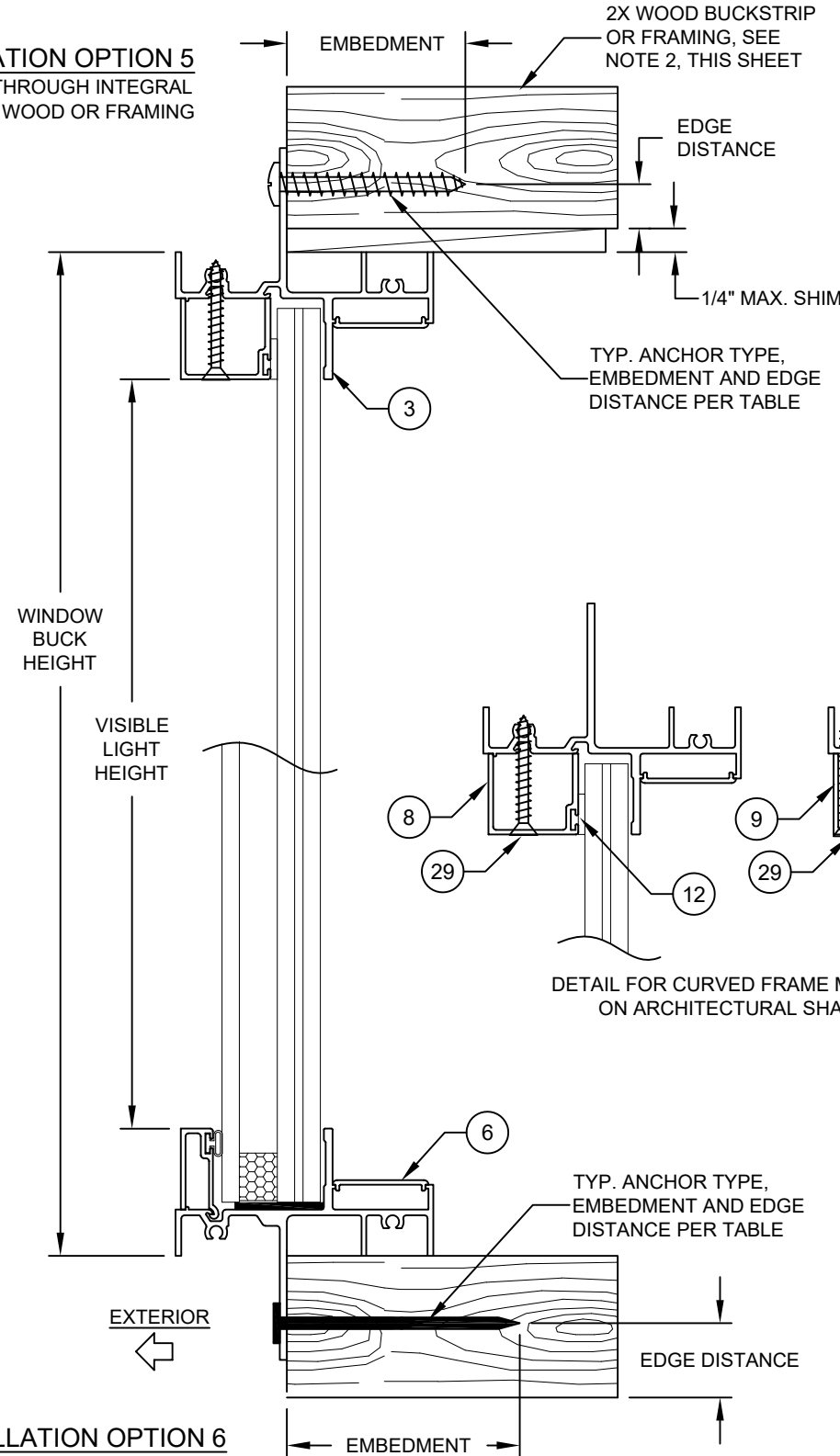
VERTICAL SECTION B-B



PGT® WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
	ALUMINUM FIXED WINDOW		Date	09/09/26
	FLANGE/EQUAL-LEG INSTALL.		By	JENS ROSOWSKI
	PW7720A		Drawn	PW7720-NI-HVHZ

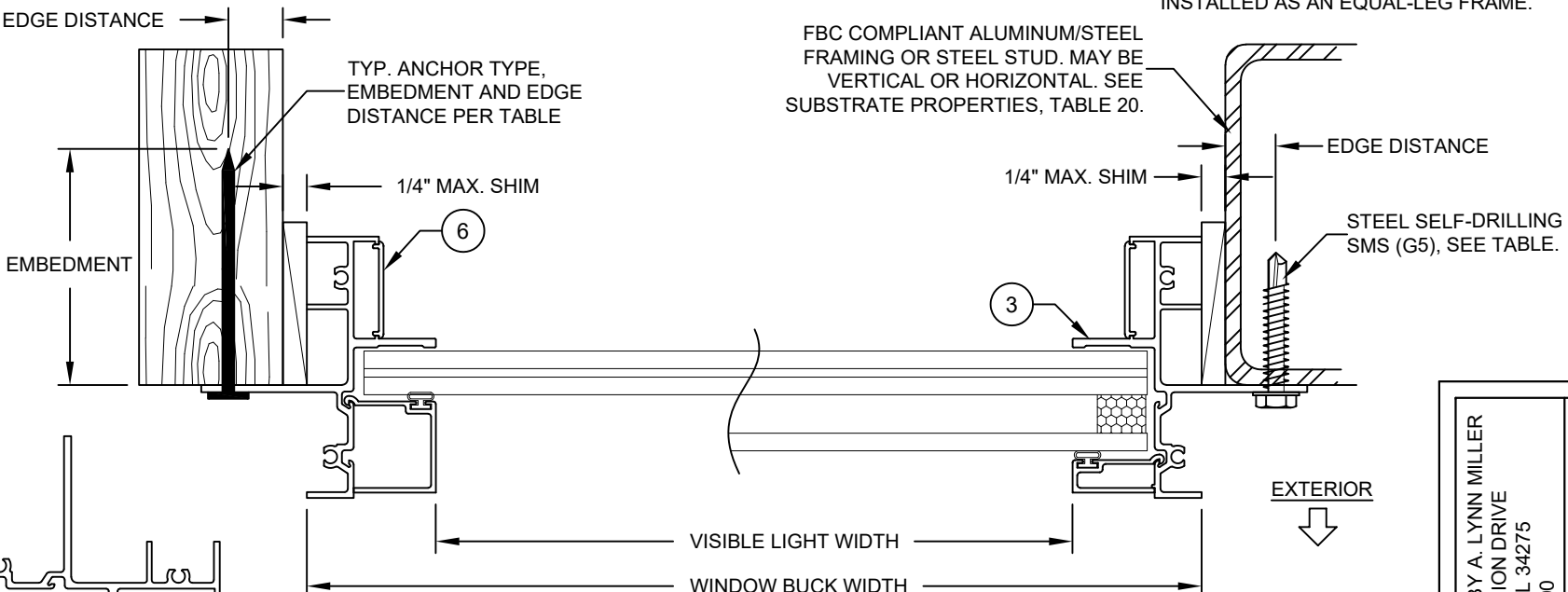


INSTALLATION OPTION 5
SCREWED THROUGH INTEGRAL
FIN INTO 2X WOOD OR FRAMING

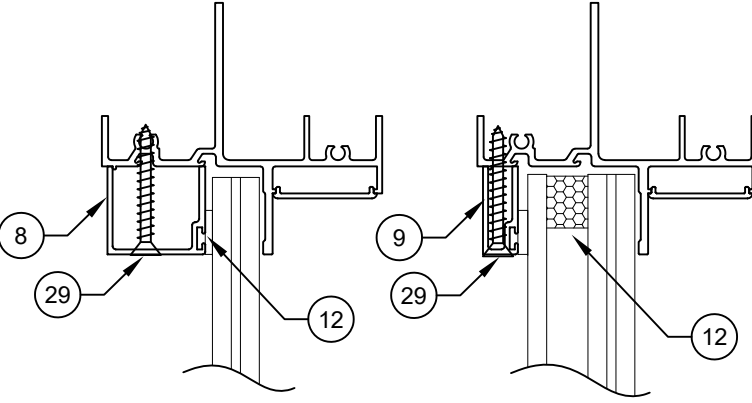


FIN FRAMES ARE ONLY TO BE USED
WITH GLASS TYPES 1-4 (PVB
INTERLAYER), NOT TO BE USED WITH
GLASS TYPES 5-8, (SG INTERLAYER).

INSTALLATION OPTION 7
ANCHORED THROUGH
INTEGRAL FIN INTO METAL. FOR MULLION
APPLICATIONS, FIN MAY BE REMOVED AND
INSTALLED AS AN EQUAL-LEG FRAME.



HORIZONTAL SECTION E-E



DETAIL FOR CURVED FRAME MEMBERS
ON ARCHITECTURAL SHAPES.

TABLE 8: ANCHORS INSTALLED THROUGH FIN

Anchor	Substrate	Min. Edge Distance	Max. O.C. Spacing
2-1/2" x .113" Box Nail	Southern Pine (SG=0.55)	5/16"	5"
2-1/2" x .131" Common Nail	Southern Pine (SG=0.55)	3/8"	5"
2-1/2" x .145" Roofing Nail	Southern Pine (SG=0.55)	3/8"	5"
#10 SMS Carbon Steel or 18-8, 316 or 410 SS	Southern Pine (SG=0.55)	1/2"	5"
	0.093" Aluminum, 6063-T5 min.	5/16"	5"
	1/16" A36 Steel	5/16"	5"
	0.045" (18 Ga) Steel Stud, Gr. 33	5/16"	5"

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

INSTALLATION NOTES:

- 1) USE ONLY ANCHORS LISTED ON THIS SHEET. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) WOOD BUCKS DEPICTED AS "2X" ARE 1-1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
- 3) IF APPLICABLE, LOWER DESIGN PRESSURE FROM EITHER WINDOW OR MULLION APPROVAL APPLIES TO WHOLE SYSTEM.

INSTALLATION OPTION 6
NAILED THROUGH INTEGRAL FIN
INTO 2X WOOD OR FRAMING

VERTICAL SECTION F-F

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3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

09/09/26
Date

By
JENS ROSOWSKI

09/09/26
Date

7 OF 8
Sheet

PW7720A
Series

ALUMINUM FIXED WINDOW
Title

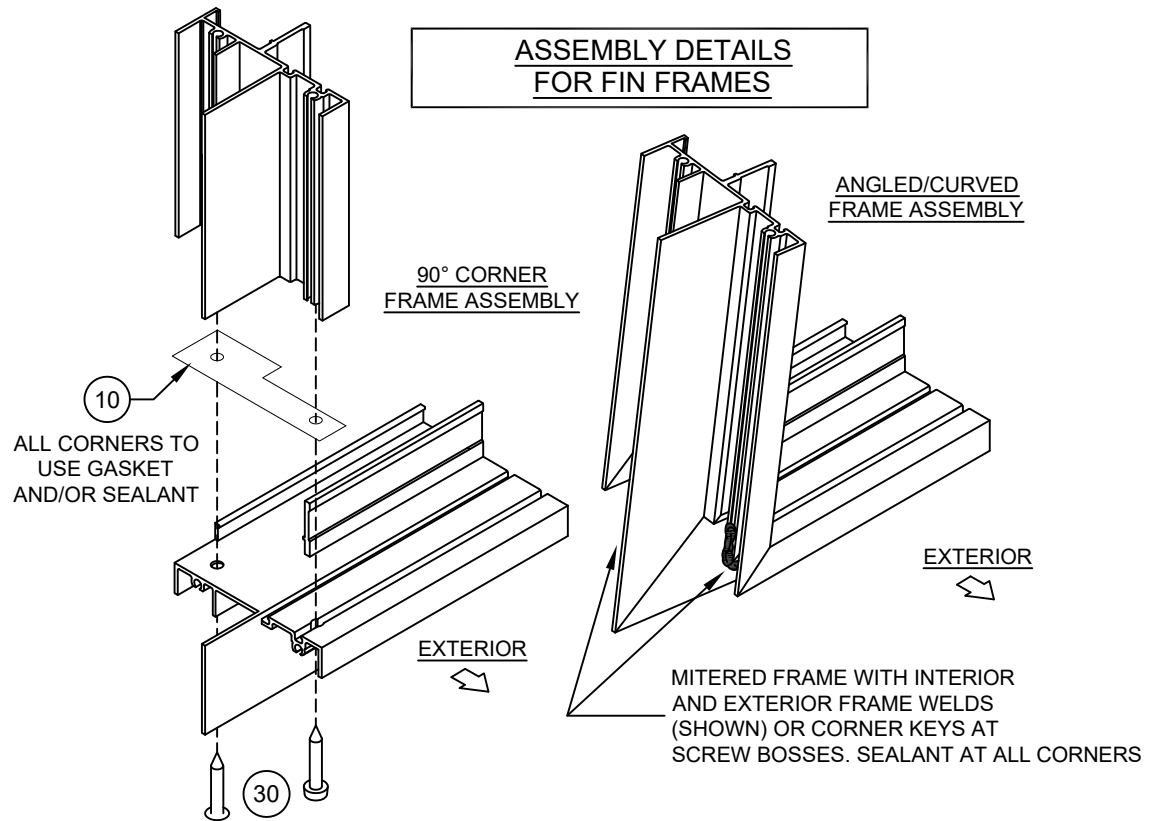
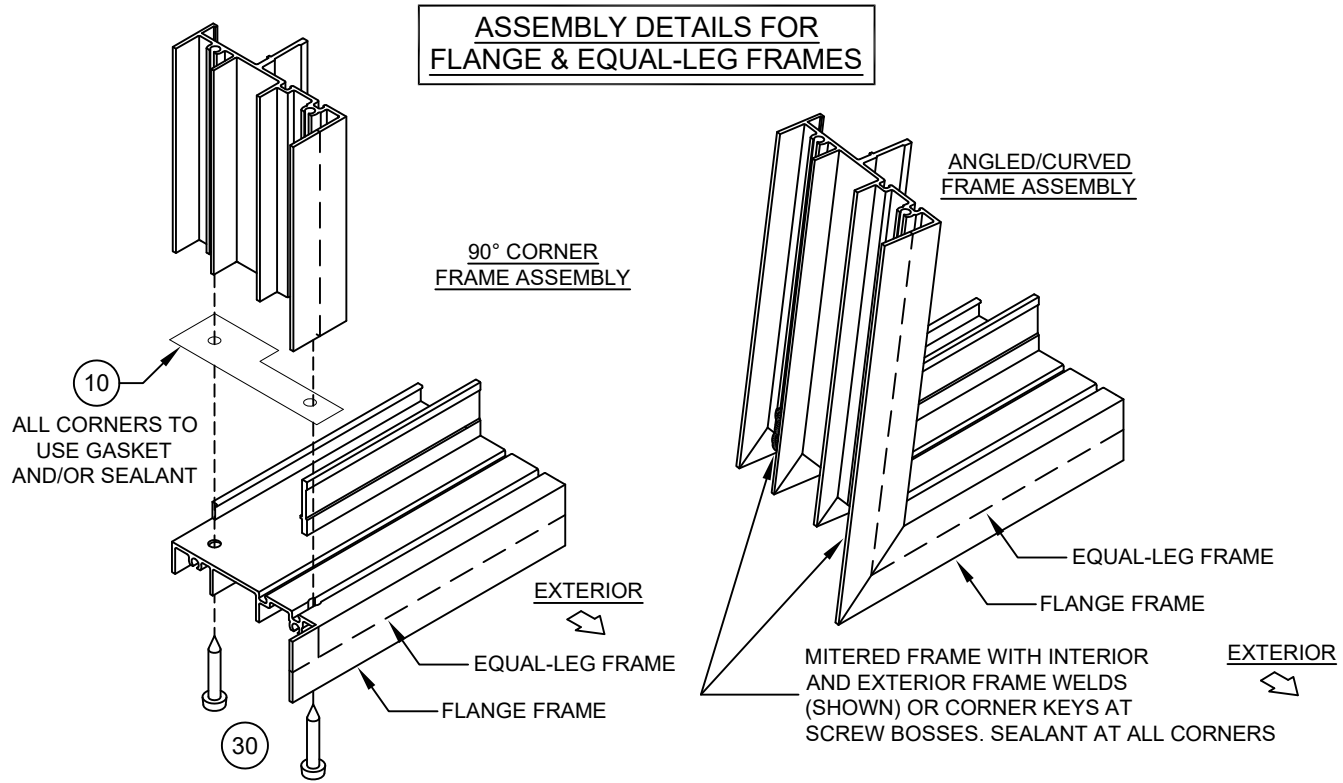
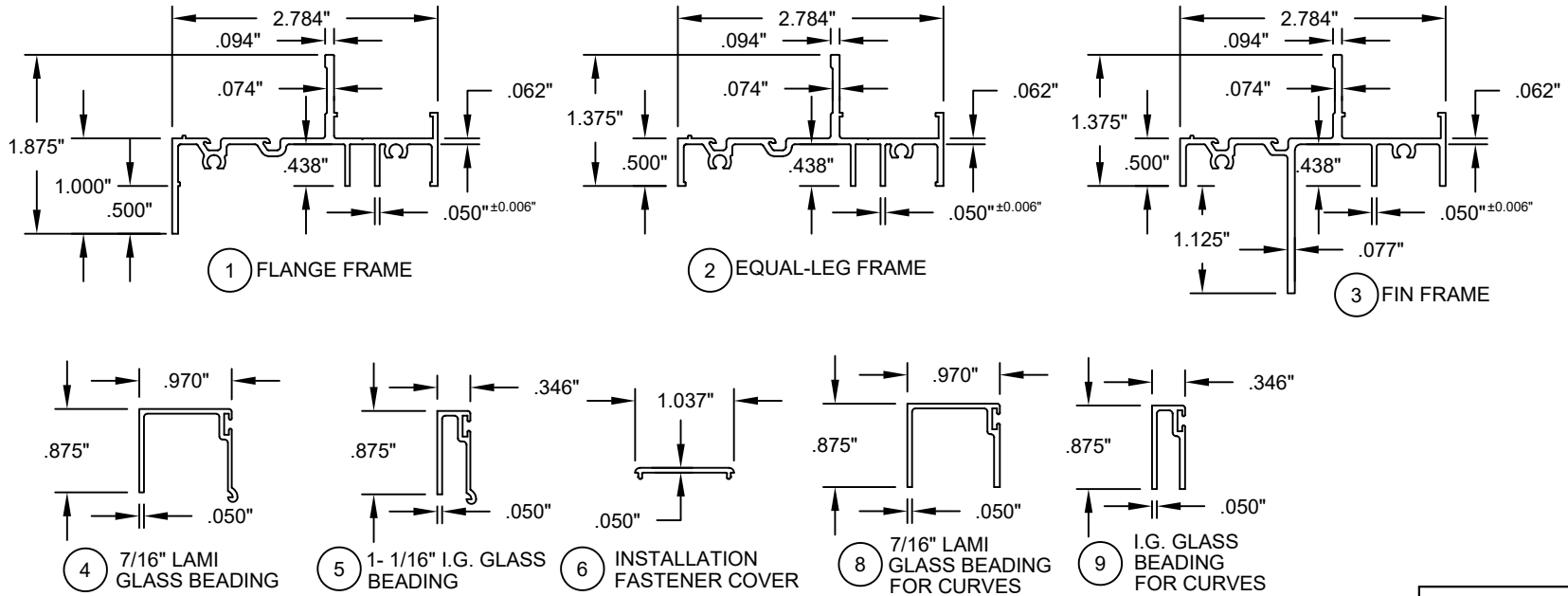
INTEGRAL FIN INSTALLATION
Desc.

PW7720-NI-HVHZ
No.

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

TABLE 9:

Item #	PGT Part #	Description	Material
1	4253C	Flanged Frame	Alum. 6063-T5
2	4285	Equal-leg Frame	Alum. 6063-T5
3	4256	Integral Fin Frame	Alum. 6063-T5
4	4255	7/16" Glass Beading	Alum. 6063-T5
5	4254	1-1/16" I.G. Glass Beading	Alum. 6063-T5
6	4224	Installation Fastener Cover	Rigid PVC
8	4267	7/16" Glass Beadling for Curves	Alum. 6063-T5
9	4269	I.G. Beading for Curves	Alum. 6063-T5
10	70589C	Gasket (at 90° corner joints)	Polyethylene
11	TP247/8	Vinyl Bulb Weatherstrip	Flex PVC, Duro. 65 +/-1
12	61308K	Foam Beading Tape	
13	Dow 791, 899, 983, 995 or GE 7700 Backbedding		Silicone
20	71652K	Setting Block, Mono. 3/16" x 7/16" x 4"	Neoprene, Duro. 85 +/-1
21	71704AK	Setting Block, I.G. 3/16" x 1-3/32" x 4"	Neoprene, Duro. 85 +/-1
29	76X114FPTX	#6 x 1-1/4" FH SMS (Curved Beading)	Stainless Steel
30	781PQX	#8 x 1" Quad PH SMS (Assembly)	Stainless Steel



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