

SERIES 1620 VINYL IMPACT RESISTANT
PICTURE WINDOW

FLORIDA PRODUCT APPROVAL #47081

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT 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 1. 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.

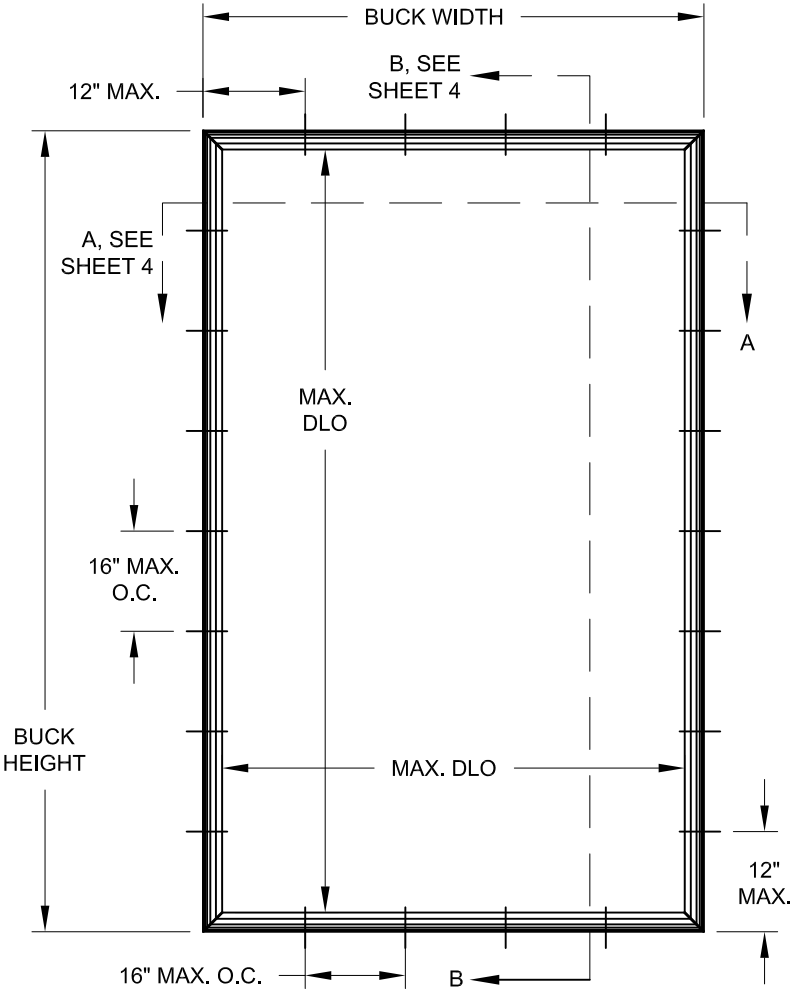
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

5) 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 MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

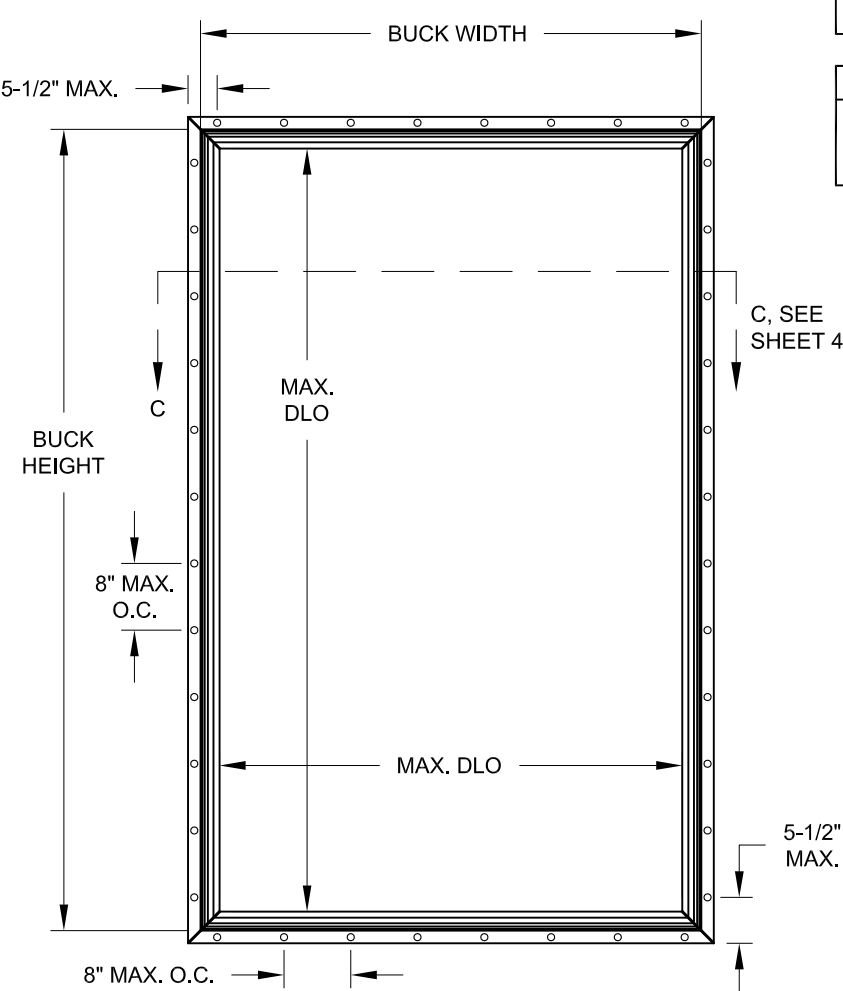
6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO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

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

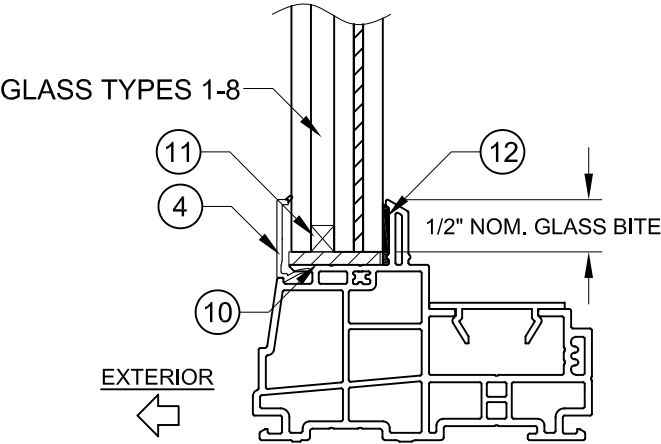
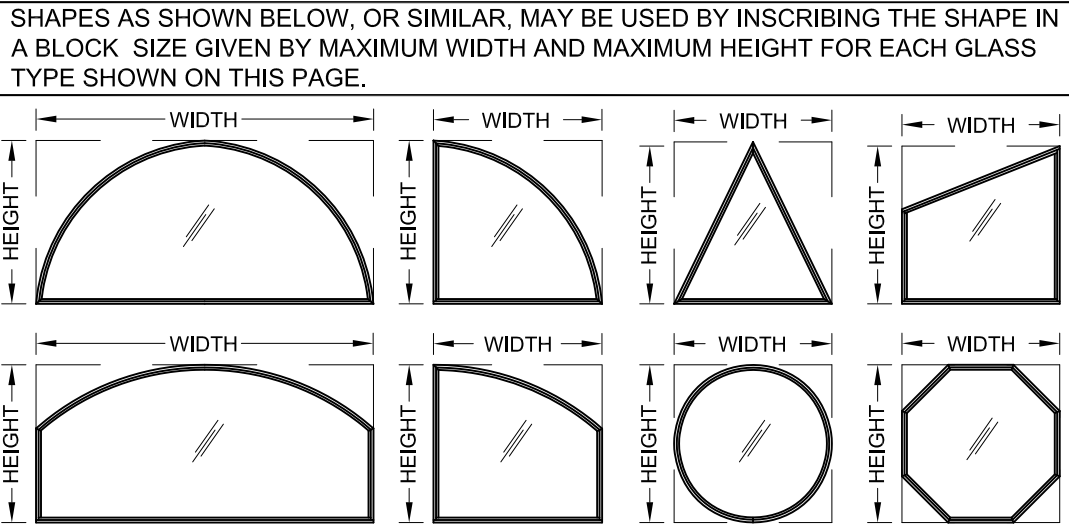
ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES.



ELEVATION FOR TYP.
EQUAL LEG/BOX & FLANGE FRAME



ELEVATION FOR TYP.
INTEGRAL FIN FRAME



IMPACT RATING
LARGE MISSILE IMPACT RESISTANT (LEVEL D)

DESIGN PRESSURE RATING
VARIES PER SIZE & GLASS TYPE, SEE TABLES 5-8, SHEET 3

MI® WINDOWS and DOORS 650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		REGISTRATION #29296		COPYRIGHT © 2025 MI WINDOWS AND DOORS, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		10/14/24		SB		1620PWFA-LM	
VINYL FIXED WINDOW (LM)		Date									
ELEVATION & GENERAL NOTES		Drawn By									
1620 PW		Sheet		1 OF 4		DWG No.					
Series Desc.		Title									

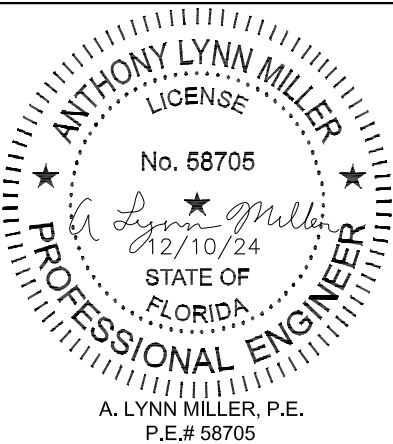


TABLE 1: WINDOW ANCHORS FOR FLANGE OR EQUAL-LEG FRAMES.

Anchor	Substrate	Min. Edge Distance	Minimum Embedment
#8 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	1/4"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	1/4"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	1/4"	0.0451" (18 Ga.)
#10 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	5/16"	0.0451" (18 Ga.)
3/16" Ultracon+ (steel)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Concrete (min. 3.00 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

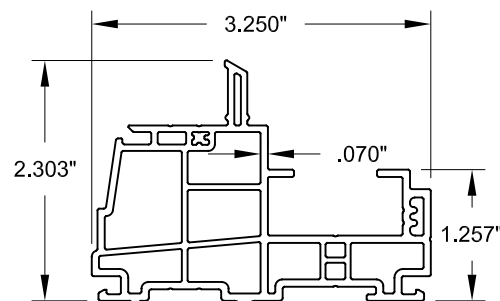
TABLE 2: WINDOW ANCHORS FOR INTEGRAL FIN FRAMES.

Anchor	Substrate	Min. Edge Distance	Minimum Embedment
2-1/2" x 0.131" Ring-Shank Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Panhead or Flathead	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	7/16"	0.0566" (16 Ga.)

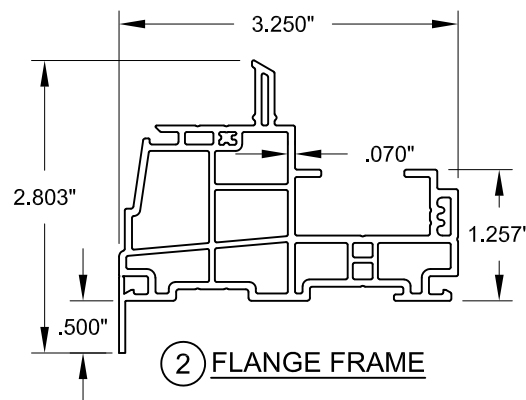
1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

TABLE 4: BILL OF MATERIALS

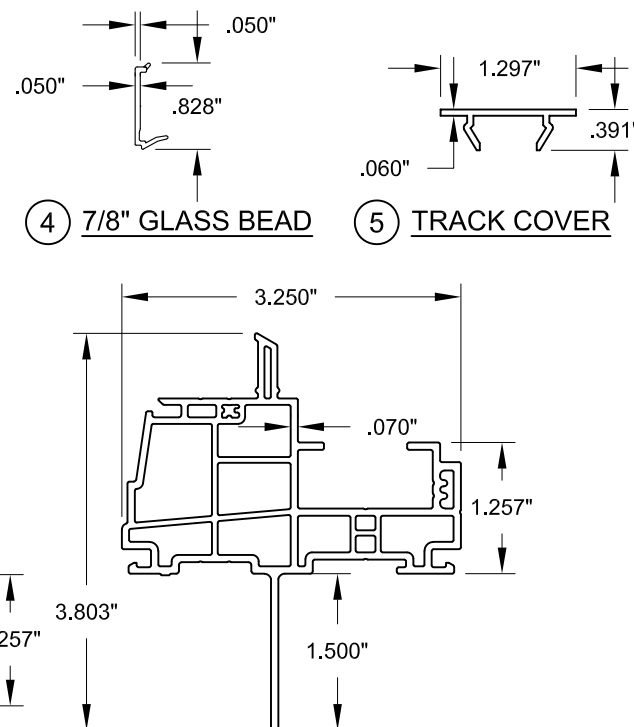
#	Part #	Description	Material
1	V010080C	Equal-leg Frame	PVC
2	CS-000406	Flange Frame	PVC
3	V100700C	Integral Fin Frame	PVC
4	V108300C	7/8" IG Glazing Bead	PVC
5	V010580C	Track Cover	PVC
10		Setting Block	EPDM
11	TPS, Metal or Composite Spacer System		varies
12	Pecora 896 or RGS 7700 Backbedding		Silicone



① EQUAL-LEG FRAME



② FLANGE FRAME

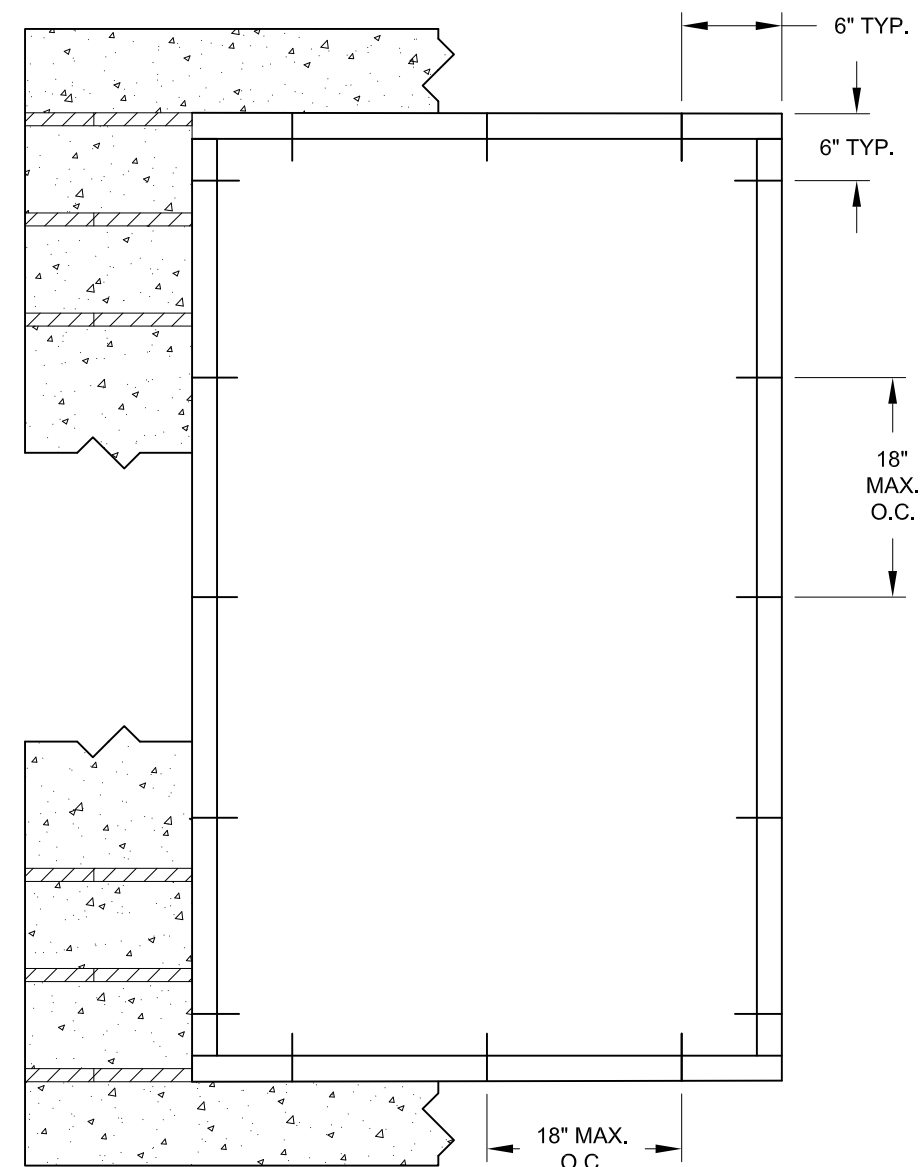


③ INTEGRAL FIN FRAME

TABLE 3: BUCK ANCHORS

Anchor	Substrate	Min. Edge Distance	Minimum Embedment
3/16" Ultracon+ (steel)	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.0 ksi)	2-1/2"	1-3/8"
1/4" Ultracon+ (steel)	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"
	Concrete (min. 3.0 ksi)	1"	1-3/8"
1/4" Crete-Flex (410 S.S.)	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"
	Concrete (min. 3.35 ksi)	1-3/4"	1-3/8"
1/4" Aggre-Gator (18-8 S.S.)	UngROUTED CMU, (ASTM C-90)	2"	1-1/4"
	Concrete (min. 2.22 ksi)	1-1/2"	1-3/8"

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.



BUCK ANCHORAGE DETAIL
ANCHORS PER TABLE 3

 WINDOWS and DOORS		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		REGISTRATION #29296	
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Series	1620 PW	2 OF 4	DWG No.
Desc.	ANCHOR AND BUCK DETAILS		By
Title	VINYL FIXED WINDOW (LM)		Date
		10/14/24	SB
		1620PWFFPA-LM	

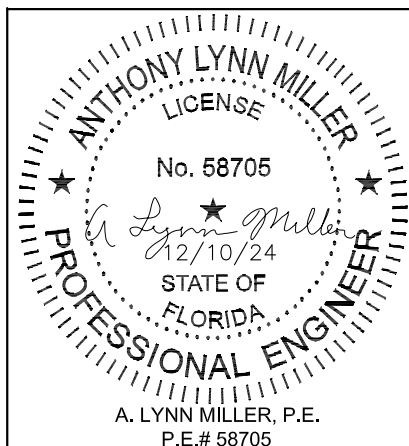
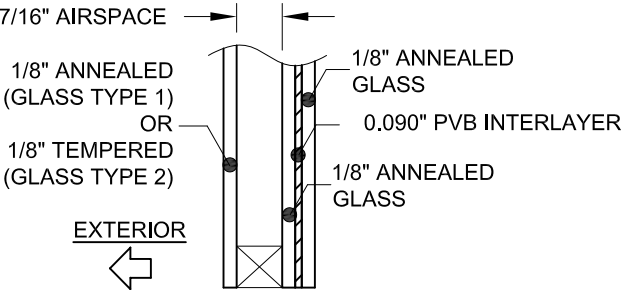


TABLE 5:

		Window Design Pressure (+/-, psf) using Glass Types 1 or 2						
		Long Side (in)						
		49"	54"	60"	63"	72"	78"	83-5/8"
Short Side (in)	24"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65
	30"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-62.6 *	+50/-58.9 *	
	38-1/8"	+50/-65	+50/-65	+50/-65	+50/-62.9 *			
	42"	+50/-65	+50/-65					
	49"	+50/-65						

* +50 / -65 IF USING GLASS TYPE 2.



GLASS TYPES 1 & 2
7/8" NOM. IG

TABLE DIMENSIONS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN.

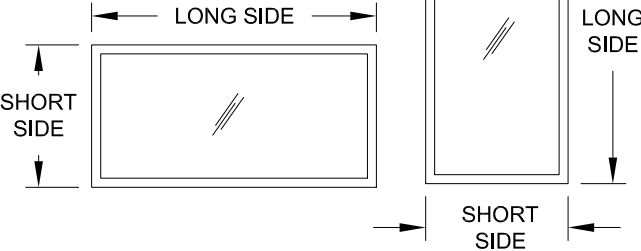
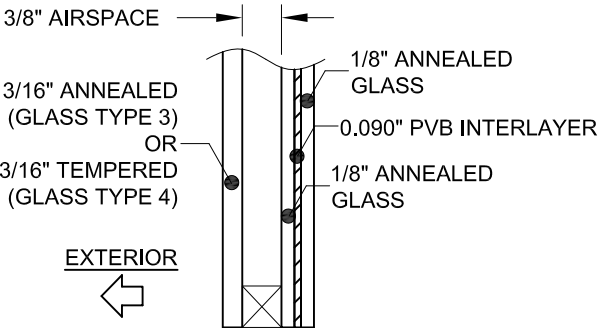


TABLE 6:

		Window Design Pressure (+/-, psf) using Glass Types 3 or 4								
		Long Side (in)								
		58-15/16"	60"	63"	72"	78"	84"	90"	96"	103-5/8"
Short Side (in)	24"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65
	30"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65
	36"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-64.9 *	+50/-60 *	+50/-56.4 **	
	42"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65				
	48"	+50/-65	+50/-65	+50/-65	+48.5/-63					
	55-1/4"	+50/-65	+50/-65	+50/-65						
	58-15/16"	+50/-65								

* +50 / -65 IF USING GLASS TYPE 4.

** +50 / -62.7 IF USING GLASS TYPE 4.



GLASS TYPES 3 & 4
7/8" NOM. IG

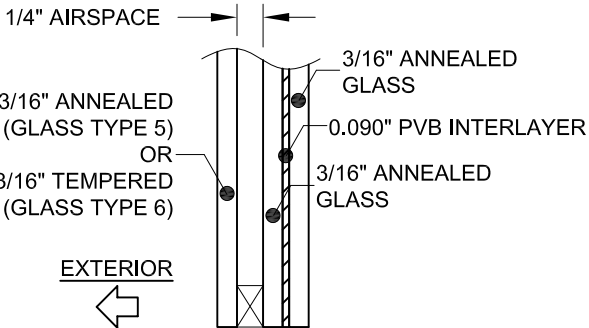
FOR INSTALLATIONS ABOVE 30 FEET IN THE HVHZ, THE OUTBOARD LITE (CAP) MUST BE TEMPERED.

TABLE 7:

		Window Design Pressure (+/-, psf) using Glass Types 5 or 6									
		Long Side (in)									
		67-11/16"	72"	78"	85"	90"	96"	103-5/8"	108"	114"	120"
Short Side (in)	36"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65 **	+50/-65 **	+50/-65 **
	42"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-64.0 *	+50/-62.5 **		
	48"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65					
	54"	+50/-65	+50/-65	+50/-65	+50/-65						
	60"	+50/-65	+50/-65								
	67-11/16"	+50/-65									

* +50 / -65 IF USING GLASS TYPE 6.

** THIS SIZE MUST USE GLASS TYPE 6.

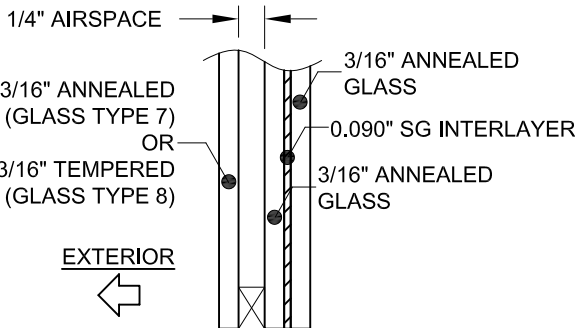


GLASS TYPES 5 & 6
7/8" NOM. IG

TABLE 8:

		Window Design Pressure (+/-, psf) using Glass Types 7 or 8								
		Long Side (in)								
		75-7/8"	78"	84"	90"	96"	103-5/8"	108"	114"	120"
Short Side (in)	48"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65 **	+50/-65 **	+50/-65 **
	54"	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65	+50/-65 **			
	60"	+50/-65	+50/-65	+50/-65	+50/-65 **	+50/-65 **				
	66"	+50/-65	+50/-65	+50/-65 **						
	72"	+50/-65 **	+50/-65 **							
	75-7/8"	+50/-65 **								

** THIS SIZE MUST USE GLASS TYPE 8.



GLASS TYPES 7 & 8
7/8" NOM. IG

NOTES:
1) BUCK DIMENSIONS SHOWN.

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

3) FOR ARCHITECTURAL SHAPE WINDOWS (SEE SHEET 1), FIND THE SMALLEST SQUARE WINDOW SIZE IN THE TABLE(S) WHICH THE ARCHITECTURAL SHAPE WINDOW WILL COMPLETELY FIT WITHIN.

PREPARED BY A. LYNN MILLER
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GRATZ, PA 17030
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MI[®] WINDOWS and DOORS

VINYL FIXED WINDOW (LM)

DP AND GLAZING DETAILS

1620 PW

10/14/24

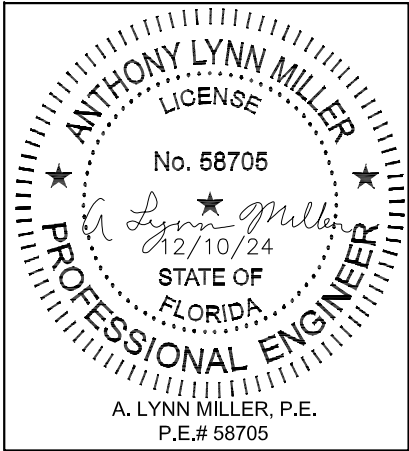
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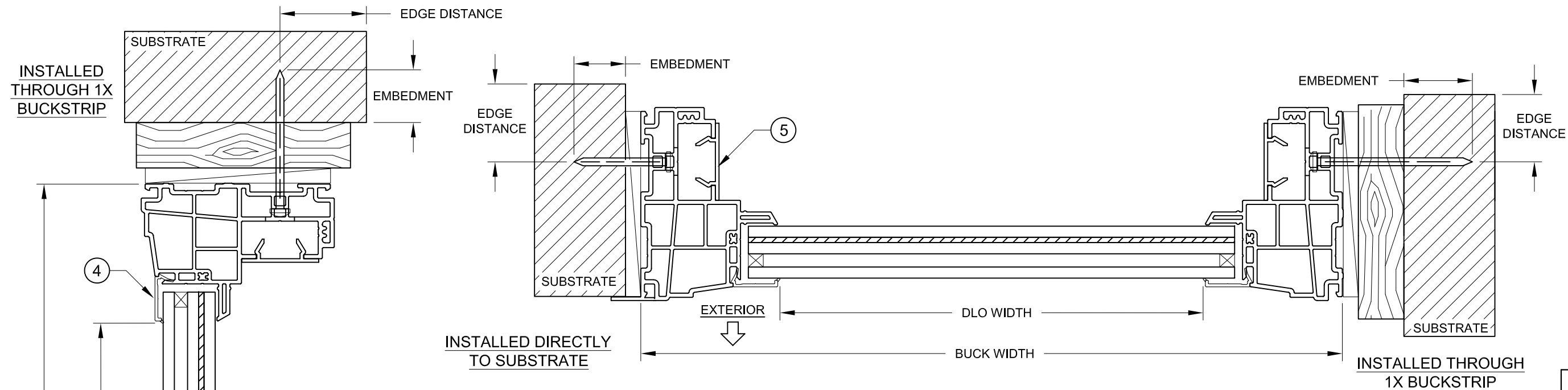
1620PWFA-LM

3 OF 4

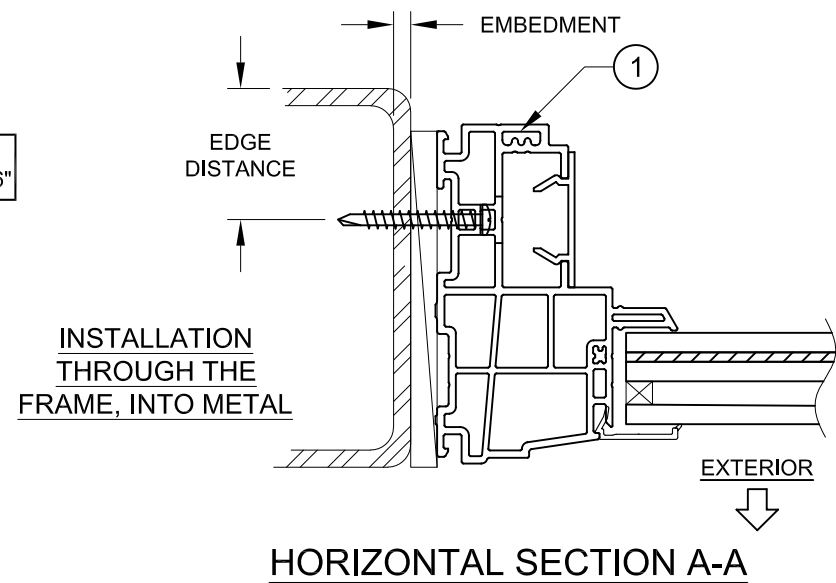
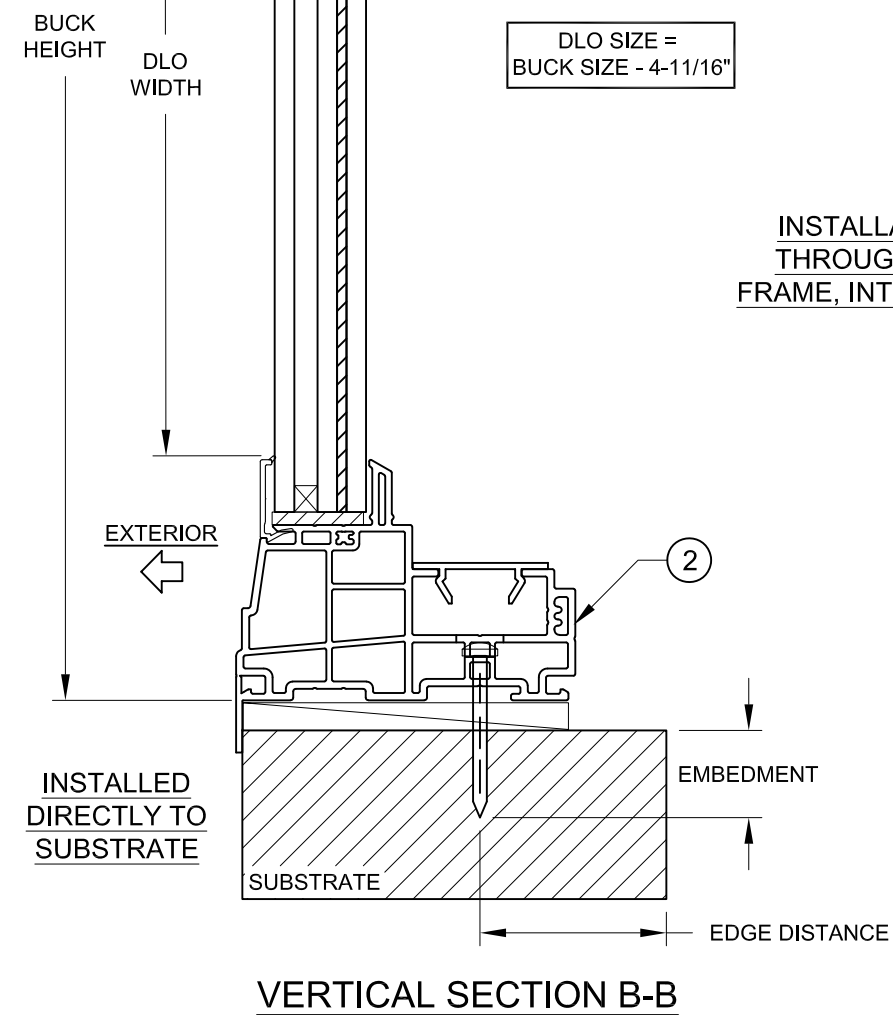
3 OF 4

3 OF 4

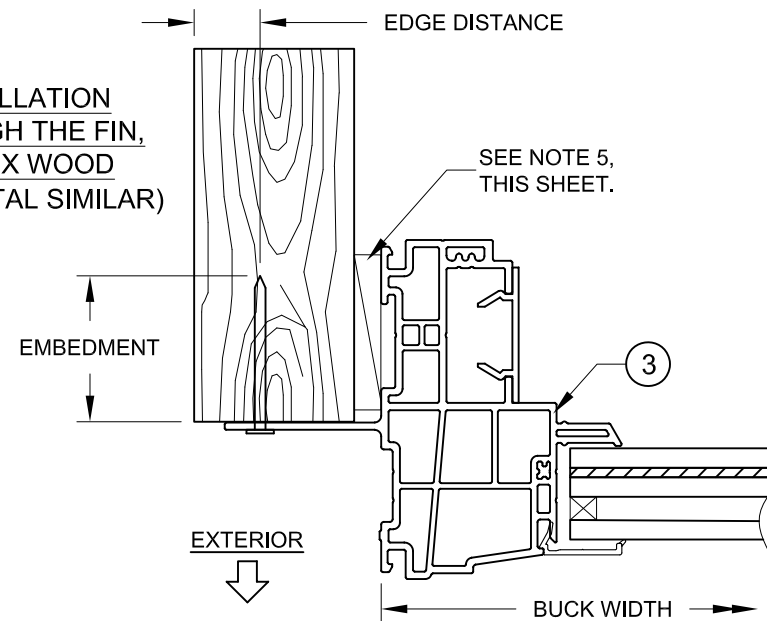




HORIZONTAL SECTION A-A



INSTALLATION THROUGH THE FIN, INTO 2X WOOD (INTO METAL SIMILAR)

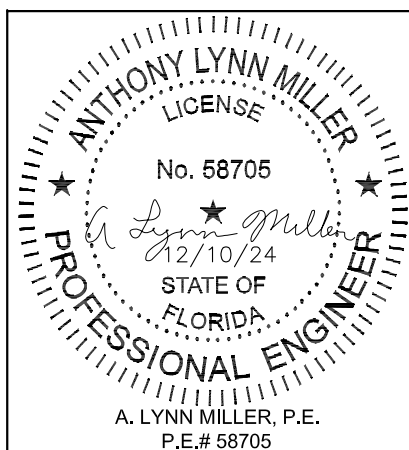


HORIZONTAL SECTION C-C
INTEGRAL FIN FRAME, SEE NOTES BELOW.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) SEE TABLES 1 OR 2 ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4".
- 4) MULTIPLE INSTALLATIONS SCENARIOS SHOWN, ANY OF WHICH MAY BE USED AT ANY FRAME MEMBER.
- 5) FOR INTEGRAL FIN FRAMES ONLY: MAXIMUM SHIM SPACING OF 18" ON CENTER.
- 6) FIN OR FLANGE MAY BE REMOVED TO CREATE AN EQUAL-LEG FRAME.

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	650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300			VINYL FIXED WINDOW (LM)	
	INSTALLATION DETAILS			1620 PW	
	4 OF 4			1620PWFA-LM	
DWG No.		SB		10/14/24	
Drawn By		Date		10/14/24	



Rev.	ADDED GLASS TYPES - JR	Date	12/10/24	Rev.	A
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