

SERIES 1620/1630/1650SPI
VINYL PICTURE WINDOW
IMPACT RESISTANT

FLORIDA PRODUCT APPROVAL #21639

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

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.

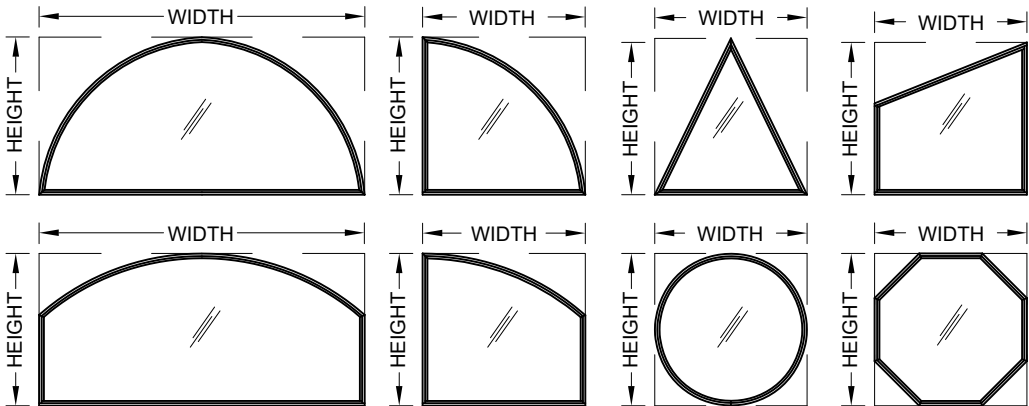
4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH.

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, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

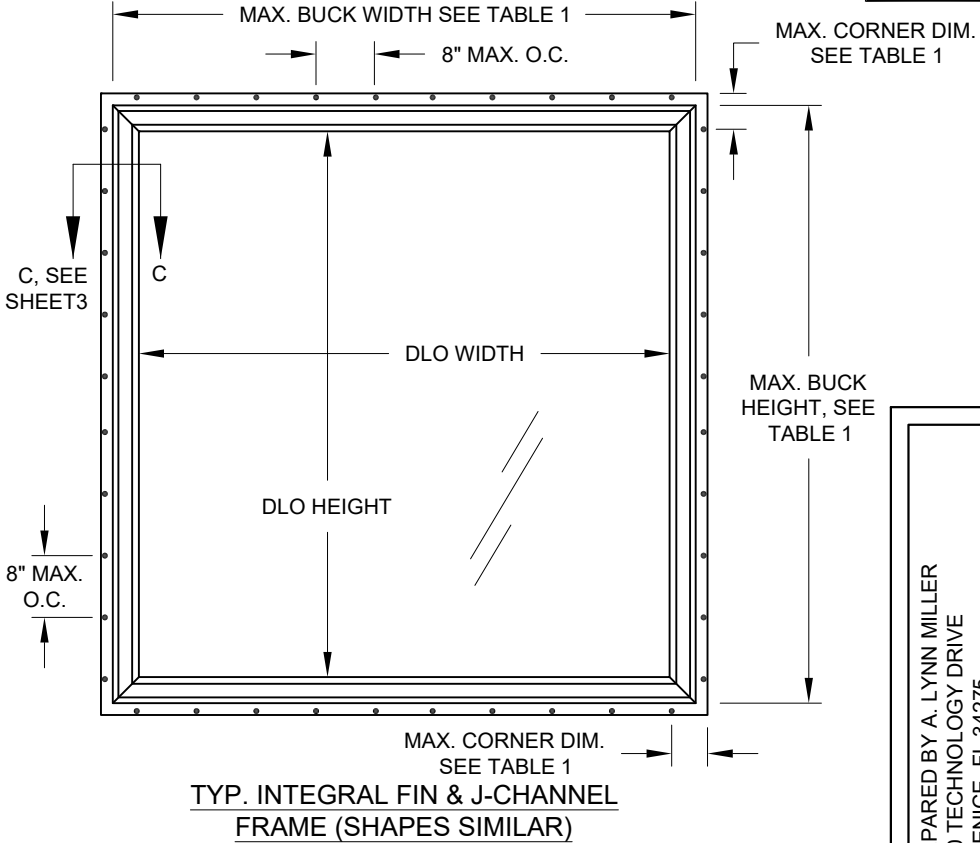
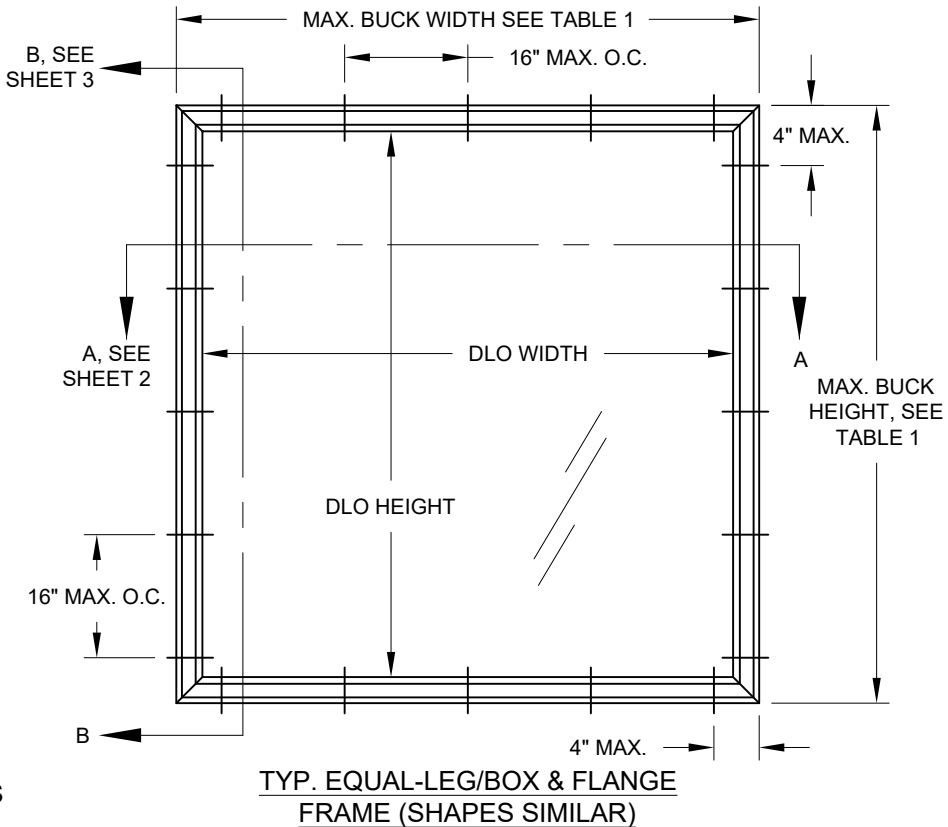
6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO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

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

SHAPES AS SHOWN BELOW, OR SIMILAR, MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK SIZE GIVEN BY MAXIMUM WIDTH AND MAXIMUM HEIGHT FOR EACH GLASS TYPE SHOWN ON THIS PAGE.



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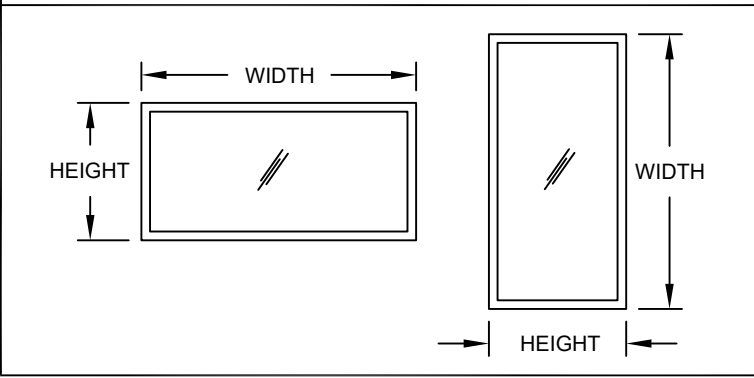
ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES.

IMPACT RATING
LARGE MISSILE IMPACT RESISTANT (LEVEL D)
DESIGN PRESSURE RATING
VARIES PER CONFIGURATION, SEE TABLE 1, THIS SHEET

TABLE 1:

Window Buck Size		Design Pressure	Product Rating	CPD Number	Max. Corner Anchorage	Glass Type
Width	Height					
48"	84"	+/- 50 PSF	LC-PG50	19407	4"	9 & 10
60"	36"	+/- 55 PSF	LC-PG55	16695	3"	1 & 2
72"	48"	+/- 55 PSF	LC-PG55	16673	3"	3 & 4
73"	61"	+/- 55 PSF	LC-PG55	16389	3"	5 & 6
73-1/8"	75"	+/- 55 PSF	LC-PG55	15955	3"	7 & 8

WIDTH AND HEIGHT DIMENSIONS MAY BE TRANSPOSED



DLO SIZE = BUCK SIZE - 4-11/16"

Rev.#
Date
Rev.

MI® WINDOWS and DOORS			PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		
			REGISTRATION #29296		
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650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300			VINYL PICTURE WINDOW (LM)		
			Date		04/25/25
			By		LOGAN YODER
			DRAWN		
			ELEVATION & GENERAL NOTES		
			DWG No.		1620-1630PW-FPA-LM
			1 OF 4		
			Sheet		
			1620/1630/ 1650SPI		
			Series Desc.		
			Title		

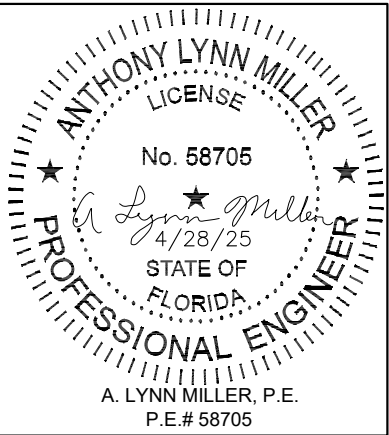


TABLE 2: THROUGH-FRAME ANCHORAGE OPTIONS

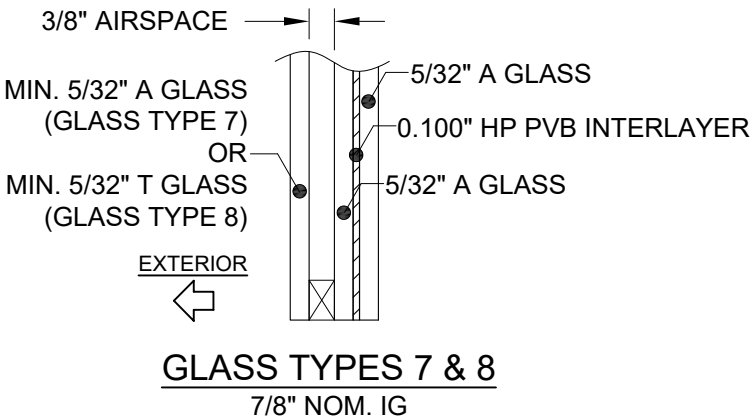
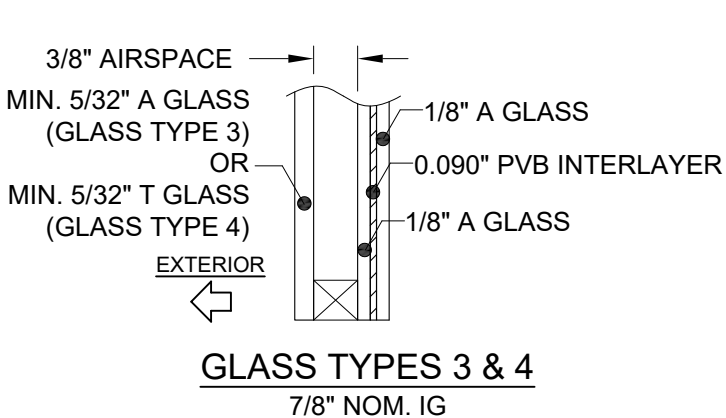
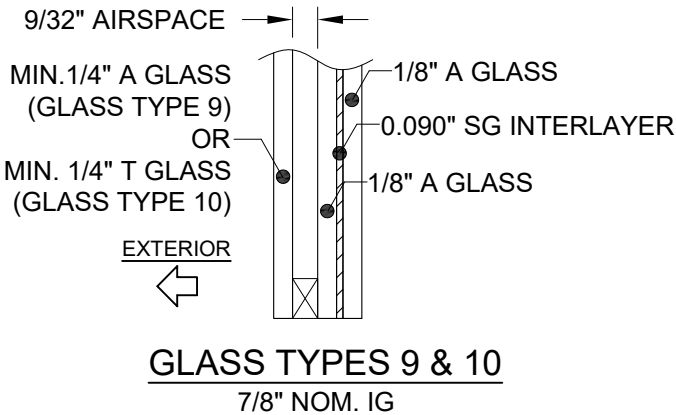
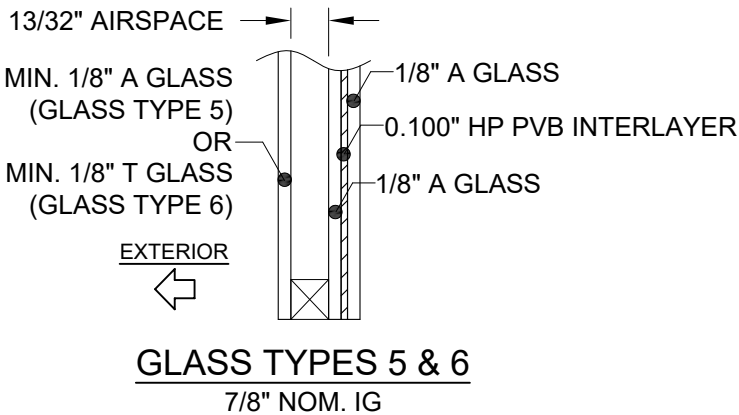
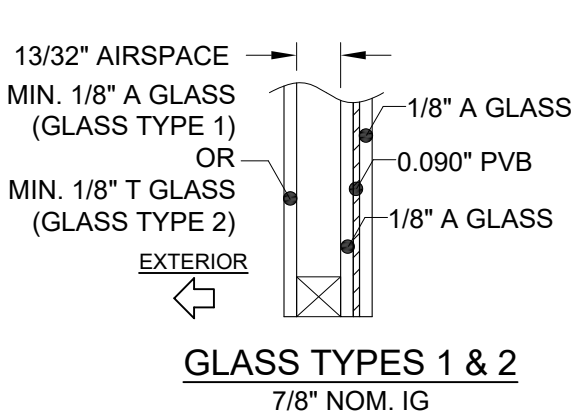
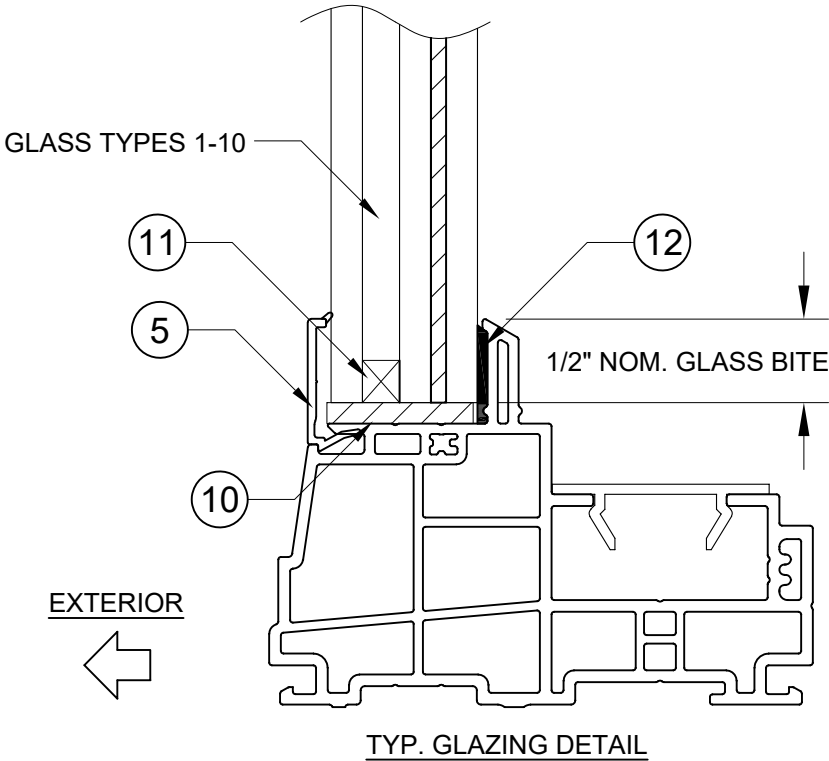
Anchor	Substrate	Min. Edge Distance	Minimum Embedment
#8 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	1/4"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	1/4"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	1/4"	0.0451" (18 Ga.)
#10 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	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 3: INTEGRAL FIN AND J-CCHANNEL ANCHORAGE OPTIONS

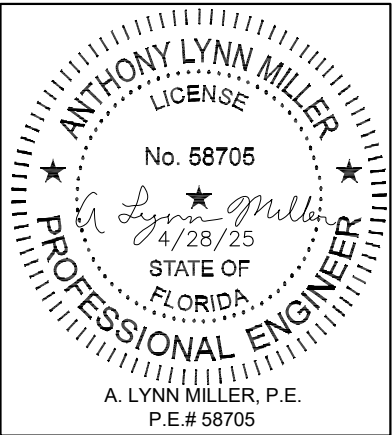
Anchor	Substrate	Min. Edge Distance	Minimum Embedment
2-1/2" x 0.131" Ring-Shank Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Panhead or Flathead	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)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

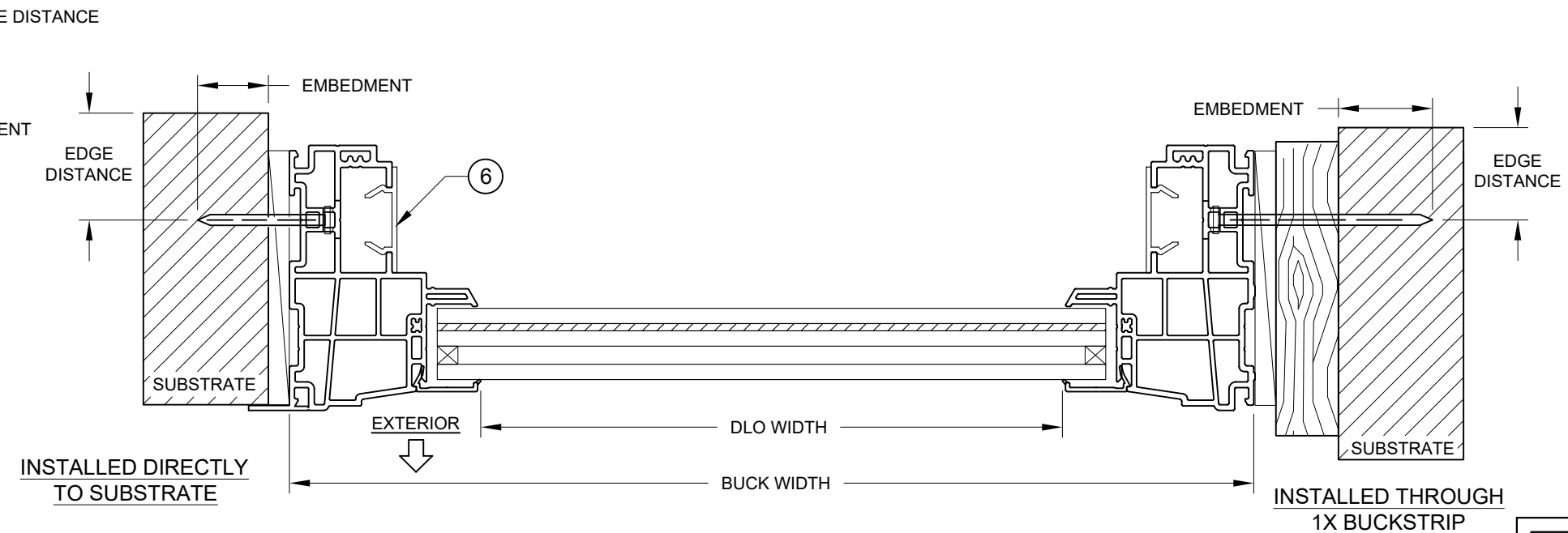
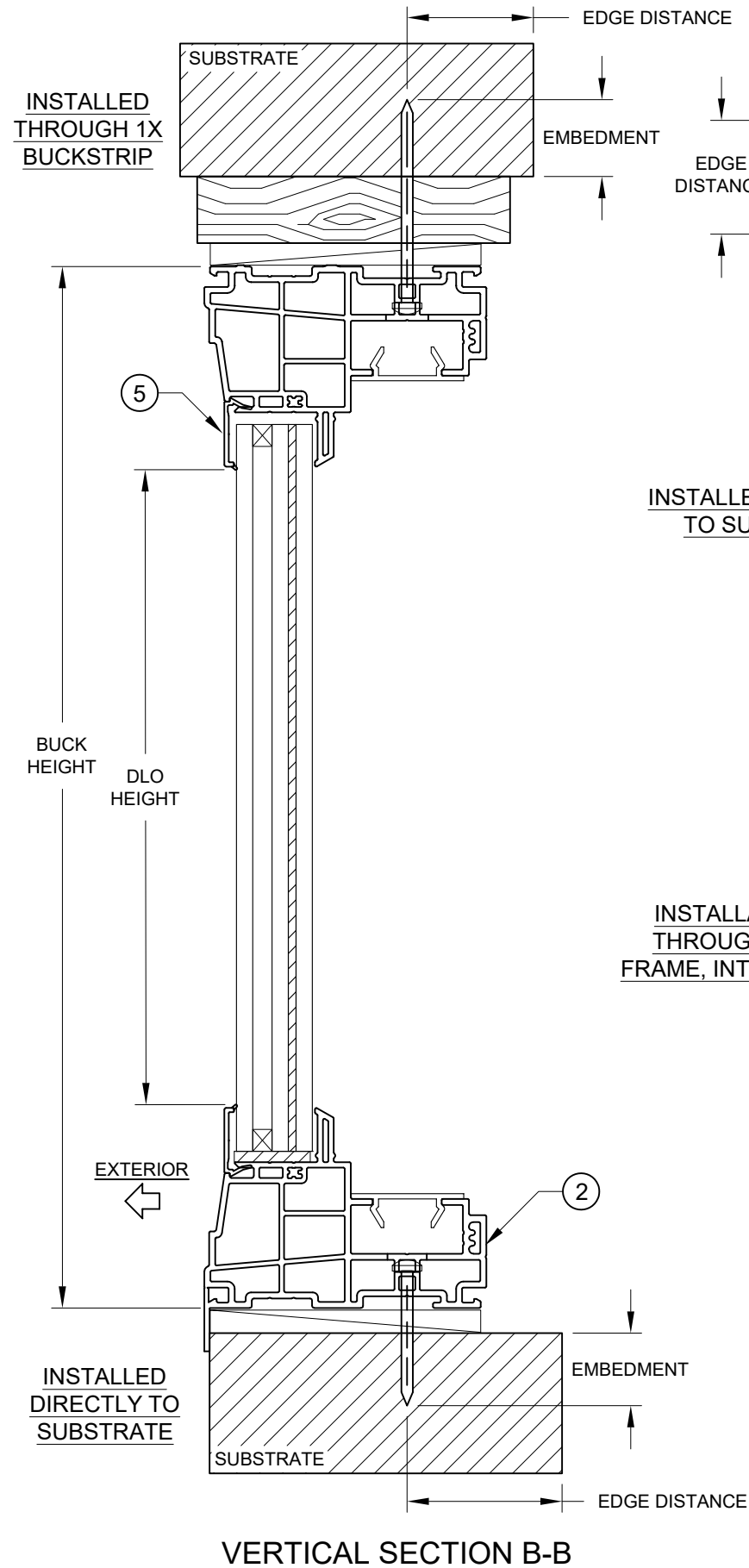
1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.



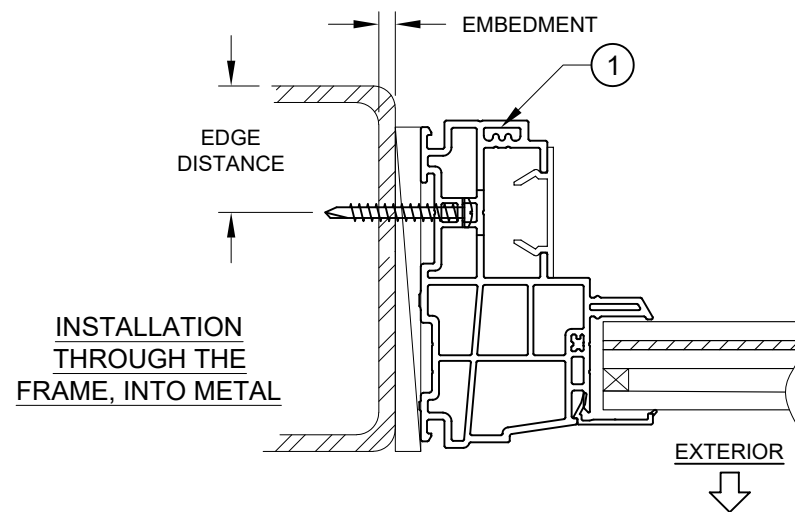
"A" = ANNEALED
"T" = TEMPERED
"PVB" = 0.090" TROSIFOL®
PVB BY KURARAY AMERICA, INC.
"HP PVB" = 0.100" TROSIFOL®
PVB BY KURARAY AMERICA, INC.
"SG" = 0.090" SENTRYGLAS®
INTERLAYER BY KURARAY AMERICA, INC.

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		650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300			
Title		VINYL PICTURE WINDOW (LM)		Date	04/25/25
Desc.		ANCHOR TYPES/GLASS TYPES		By Drawn	LOGAN YODER
Series		1620/1630/ 1650SPI		No. DWG	1620-1630PW-FPA-LM
		Sheet		2 OF 4	



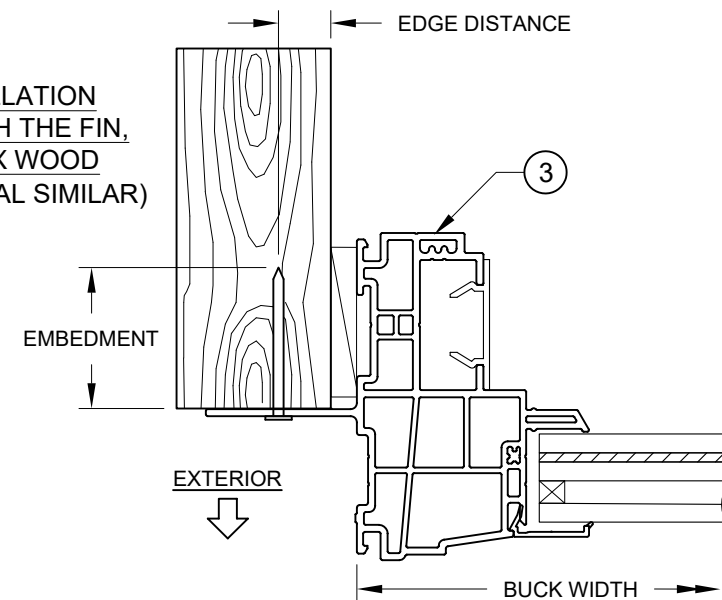


HORIZONTAL SECTION A-A



HORIZONTAL SECTION A-A

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



HORIZONTAL SECTION C-C
INTEGRAL FIN FRAME SHOWN, J-CHANNEL FRAME SIMILAR, SEE NOTES BELOW.

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) SEE TABLES 2 OR 3 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 & J-CHANNEL 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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	VINYL PICTURE WINDOW (LM)		04/25/25	
	SECTION VIEWS		LOGAN YODER	
	1620/1630/1650SPI		1620-1630PW-FPA-LM	

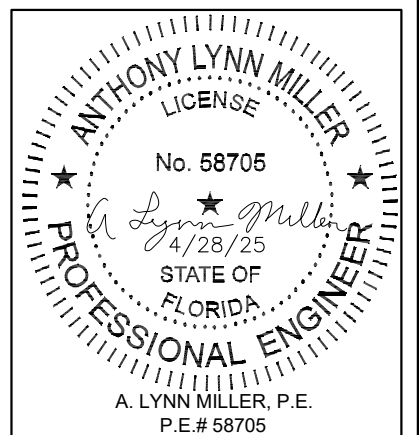


TABLE 4:BILL OF MATERIALS

#	Part #	Description	Material
1	V010080C	Equal-leg Frame	PVC
2	CS-000406	Flange Frame	PVC
3	V100700C	Integral Fin Frame	PVC
4	V100600C	J-Channel Frame	PVC
5	V108300C	7/8" IG Glazing Bead	PVC
6	V010580C	Track Cover	PVC
10		Setting Block	EPDM
11	TPS, Metal or Composite Spacer System		varies
12	Pecora 896 or RGS 7700 Backbedding		Silicone

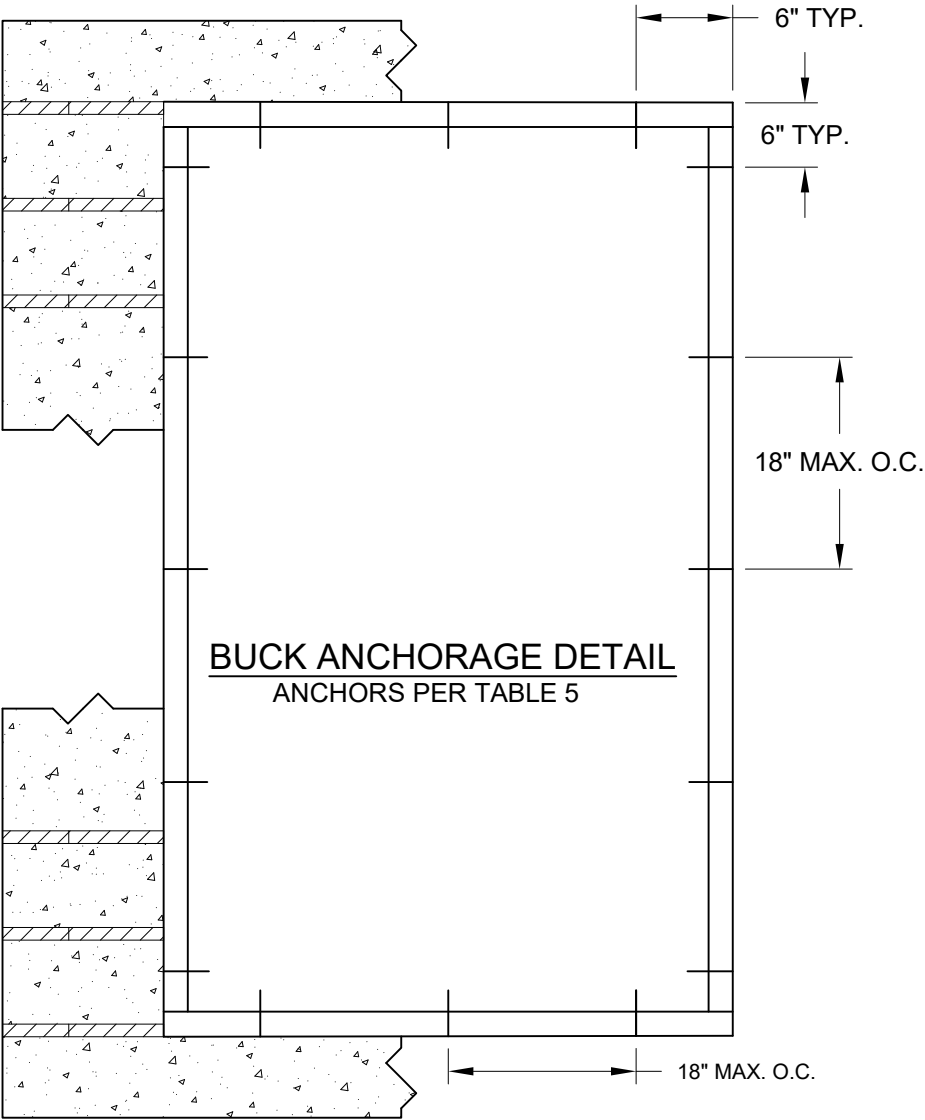
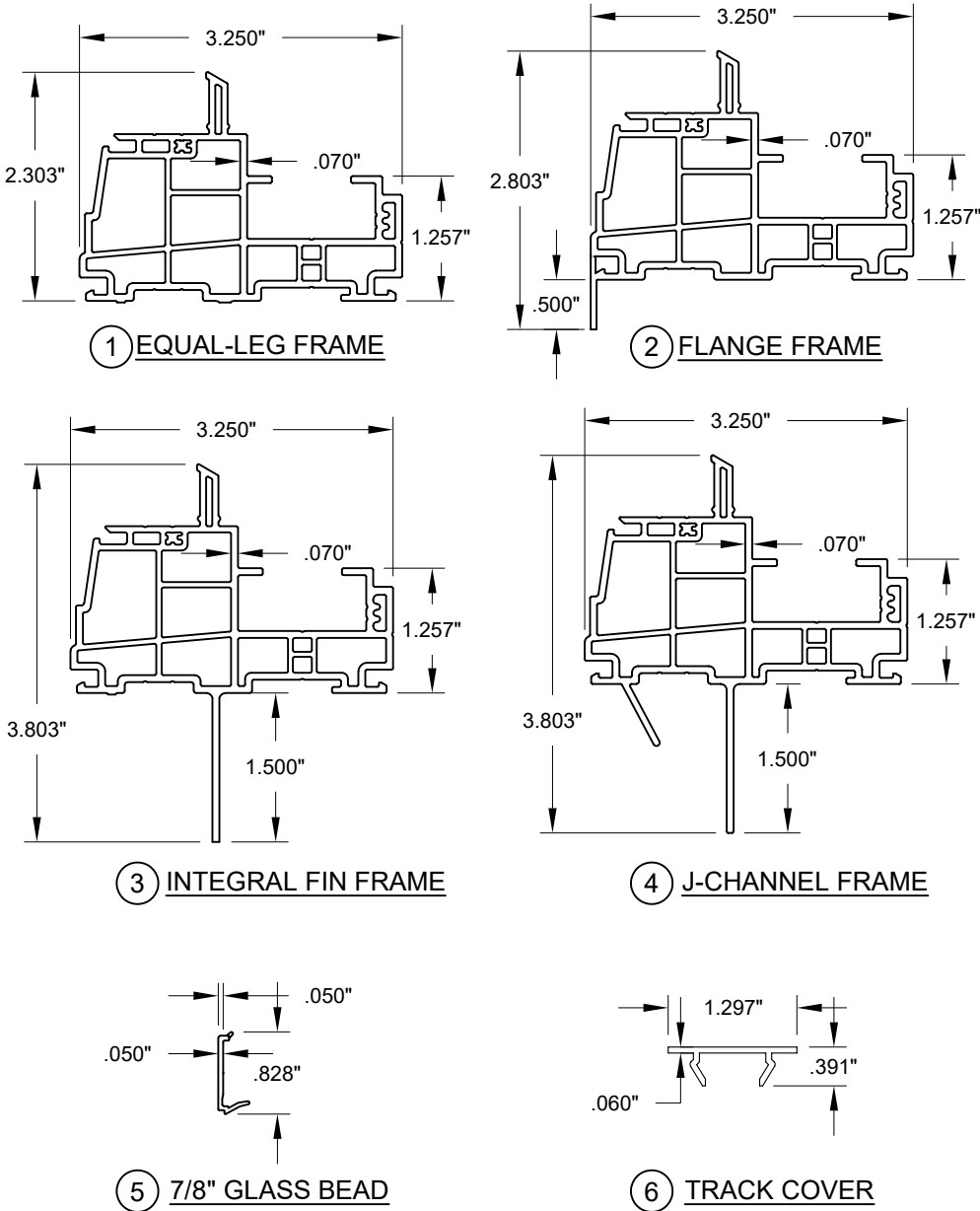


TABLE 5: BUCK ANCHORAGE OPTIONS

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.

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VINYL PICTURE WINDOW (LM)		Date		04/25/25	
BOM / EXT. / BUCK ANCHORAGE		By		LOGAN YODER	
1620/1630/ 1650SPI		Sheet		4 OF 4	
Series		Desc.		Title	
1620/1630/ 1650SPI		1620-1630PW-FPA-LM		DWG No.	

