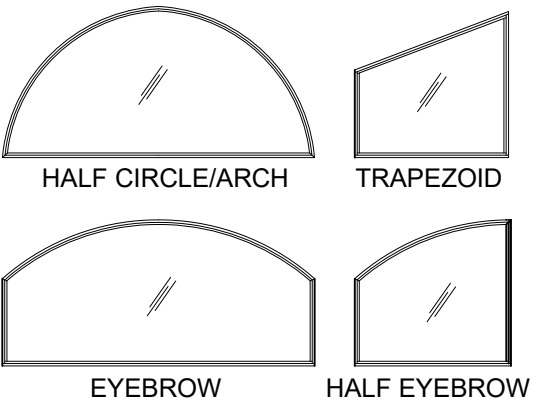


SERIES PW4120A
IMPACT RESISTANT PICTURE WINDOW

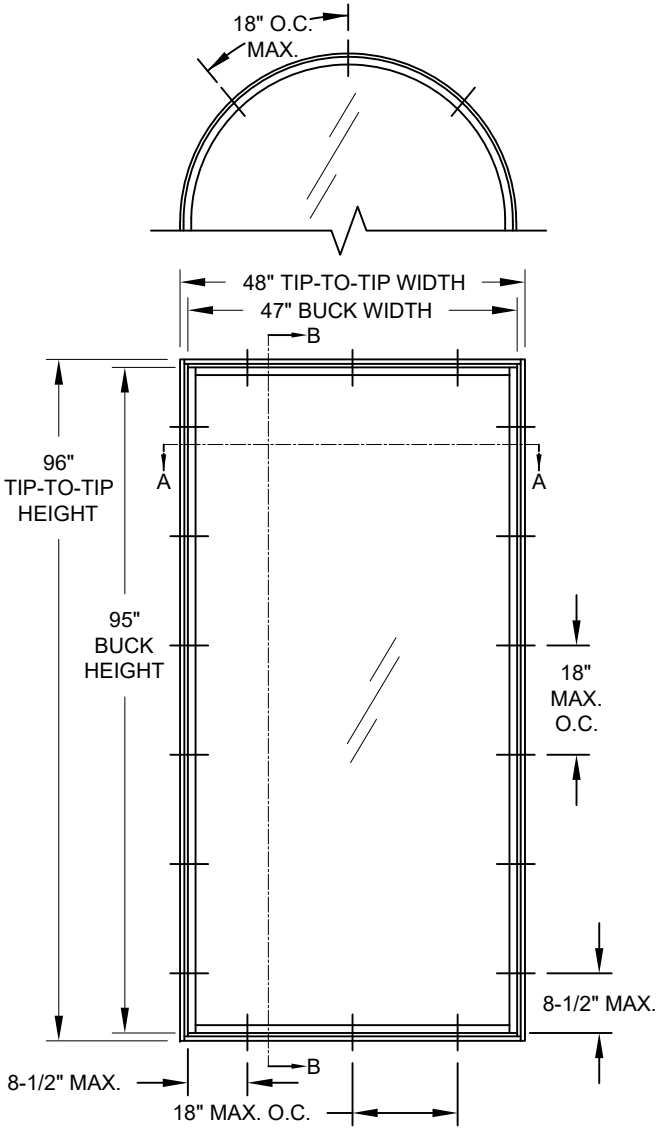
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 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.

ALL WINDOW SHAPES QUALIFIED, COMMON EXAMPLES SHOWN BELOW:

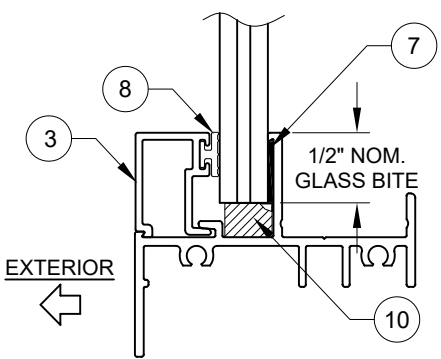


ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.

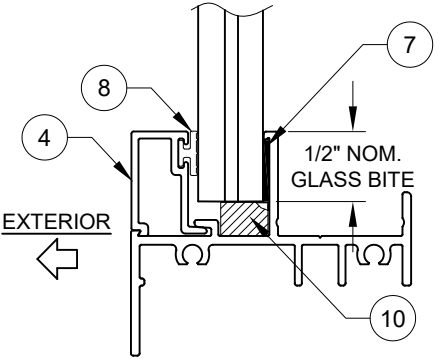
FLORIDA PRODUCT APPROVAL #5012



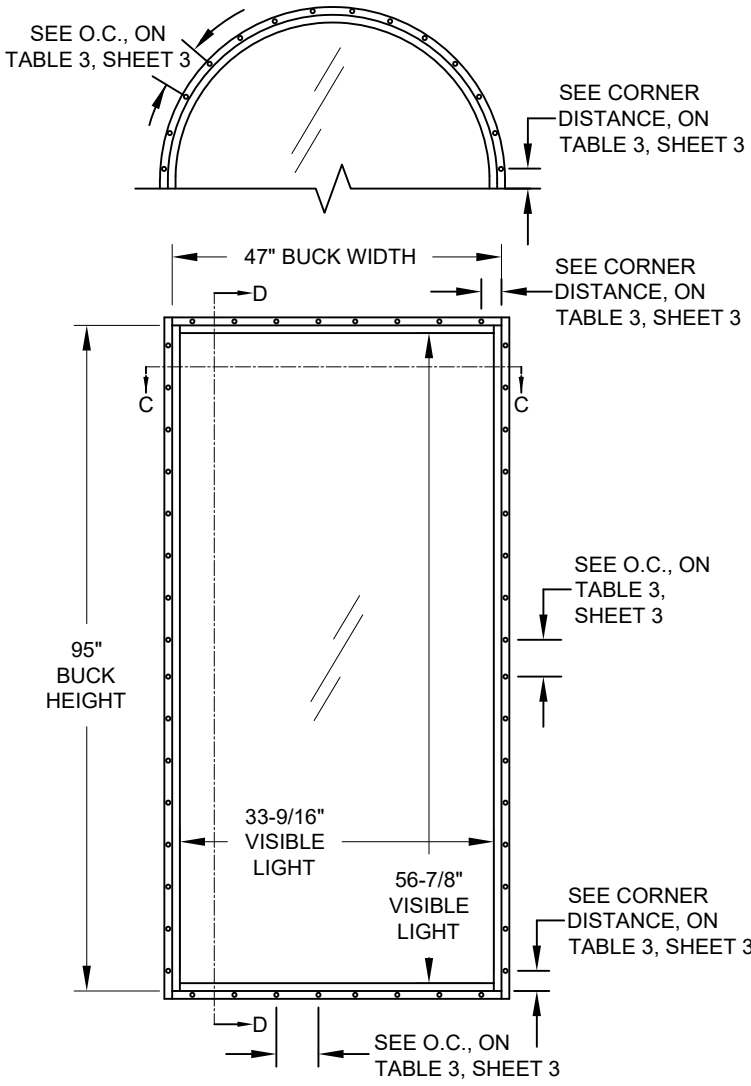
TYP. FLANGE FRAME
ANCHOR LOCATIONS
@ MAX. SIZE



5/16" GLAZING DETAIL



7/16" GLAZING DETAIL



TYP. FIN FRAME
ANCHOR LOCATIONS
@ MAX. SIZE

TABLE 1:

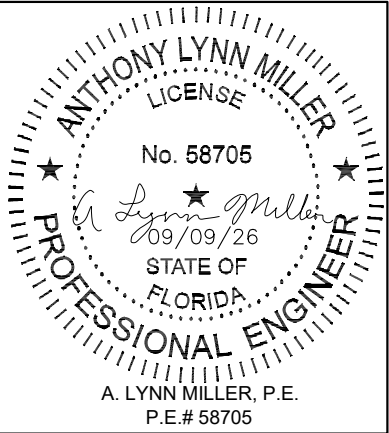
Laminated Glass Types	
1	1/8" Annealed, 0.090" PVB, 1/8" Annealed
2	1/8" Heat Strengthened, 0.090" PVB, 1/8" Heat Strengthened
3	3/16" Annealed, 0.090" PVB, 3/16" Annealed
4	3/16" Heat Strengthened, 0.090" PVB, 3/16" Heat Strengthened

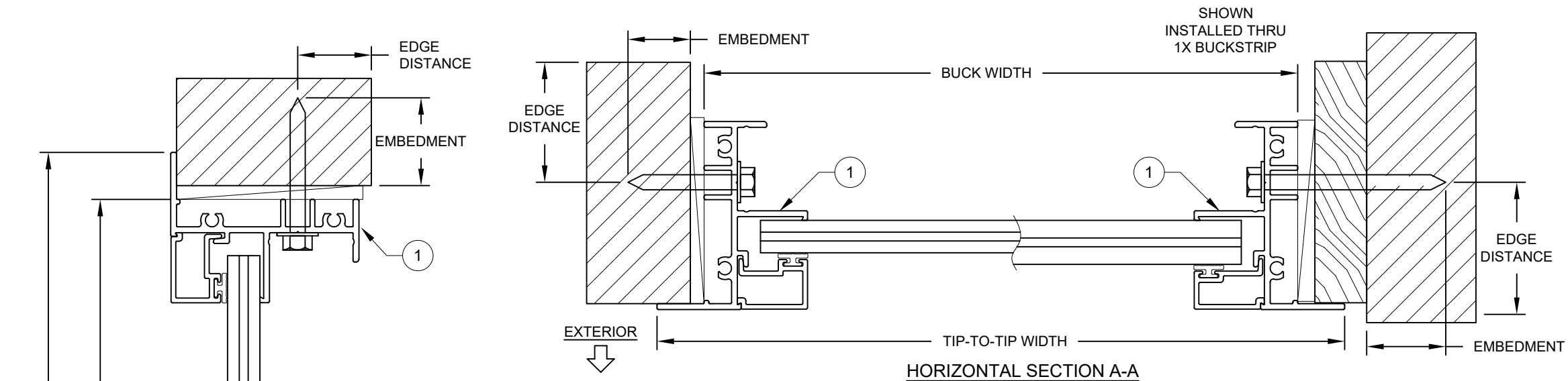
INTERLAYER MAY BE SAFLEX PVB OR TROSIFOL PVB
SEE SHEETS 4 & 5 FOR GLASS DETAILS

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.

DESIGN PRESSURE RATING SEE TABLES 4-7
WATER TEST PRESSURE 15% OF (+) DP
IMPACT RATING LARGE AND SMALL MISSILE IMPACT RESISTANT MISSILE LEVEL D, WIND ZONE 4

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			No.	DWG		
			Sheet			





5/16" LAMI.
GLAZING
SHOWN

TIP-TO-TIP
HEIGHT

BUCK
HEIGHT

7/16" LAMI.
GLAZING
SHOWN

#12 STEEL SELF
DRILLING SMS (G5)
(SEE TABLE 2)

EXTERIOR

INSTALLED INTO
APPROVED MULLION,
MAY BE VERTICAL OR
HORIZONTAL.

#12 STEEL SELF
DRILLING SMS (G5)
(SEE TABLE 2)

EXTERIOR

INSTALLED DIRECTLY
INTO APPROVED
ALUMINUM, STEEL
FRAMING OR STEEL STUD.

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.

TABLE 2:

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment
#12 SMS Carbon Steel or 18-8, 316, 410 SS	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	PSouthern 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"
1/4" 304 SS Aggre-Gator	Ungrouted Block, (ASTM C90)	2"	1-1/4"
	Concrete (min. 2.22 ksi)	1-1/2"	1-3/8"
	Southern Pine (SG = 0.55)	1"	1-3/8"

1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.

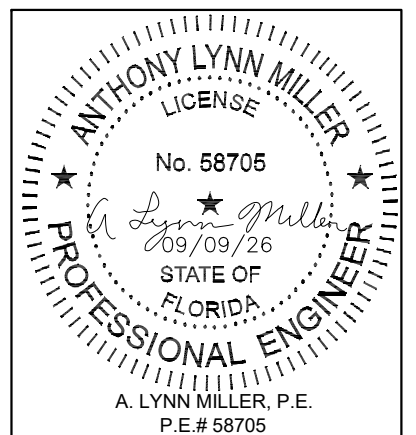
2) ALL SCREWHEAD TYPES ARE APPLICABLE.

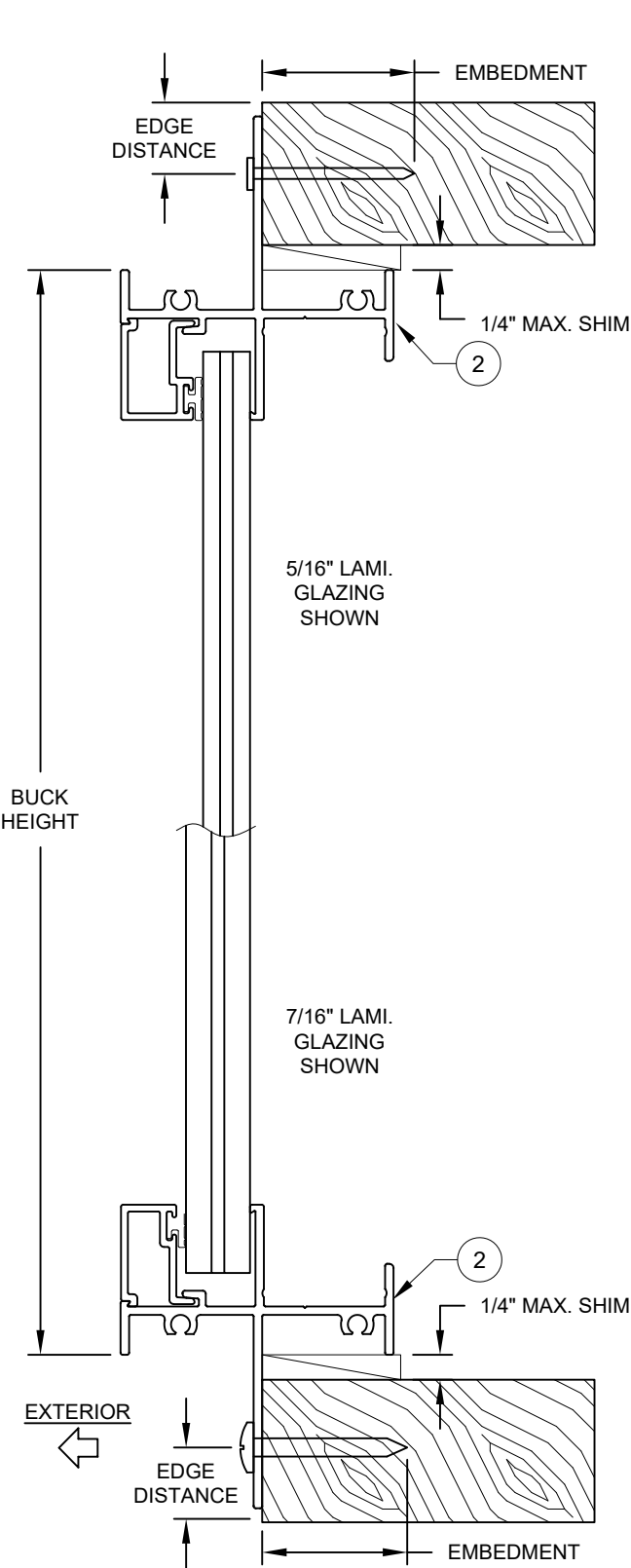
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.

4) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

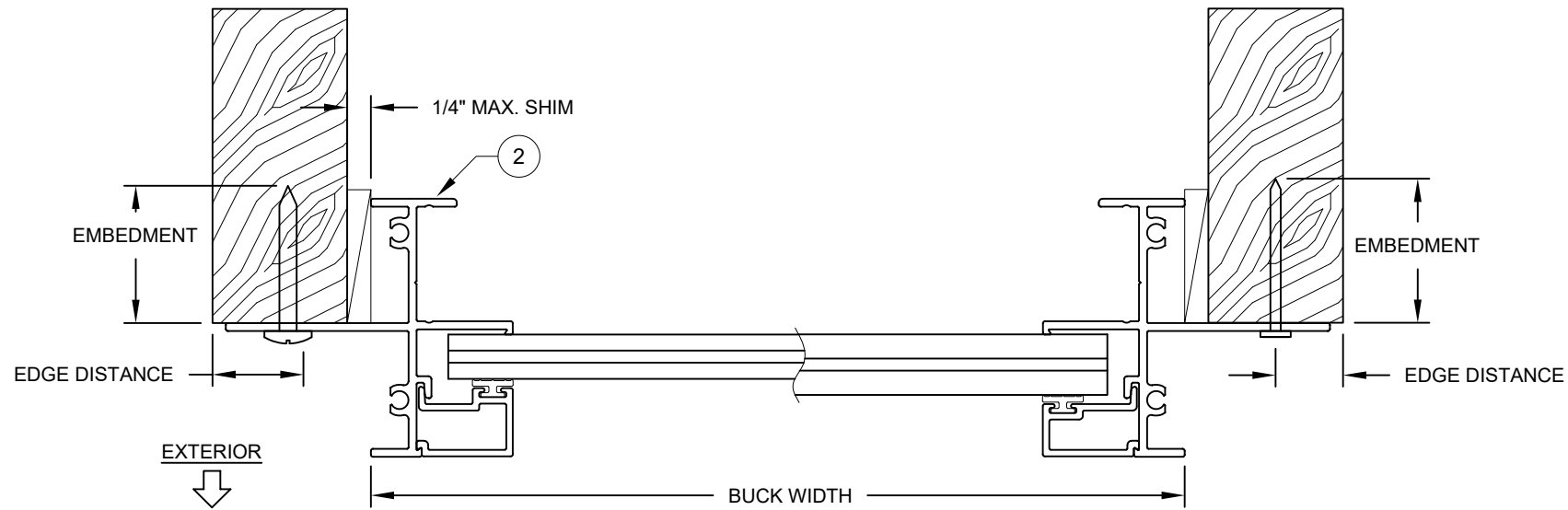
VERTICAL SECTION B-B

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	ALUMINUM PICTURE WINDOW		09/09/26	
	CROSS SECTION & GENERAL NOTES		JENS ROSOWSKI	
	PW4120A		PW4120-LM-HVHZ	

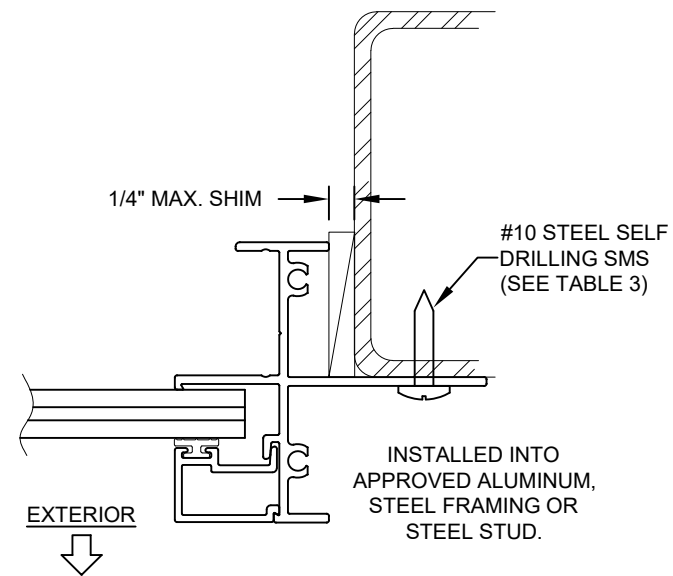
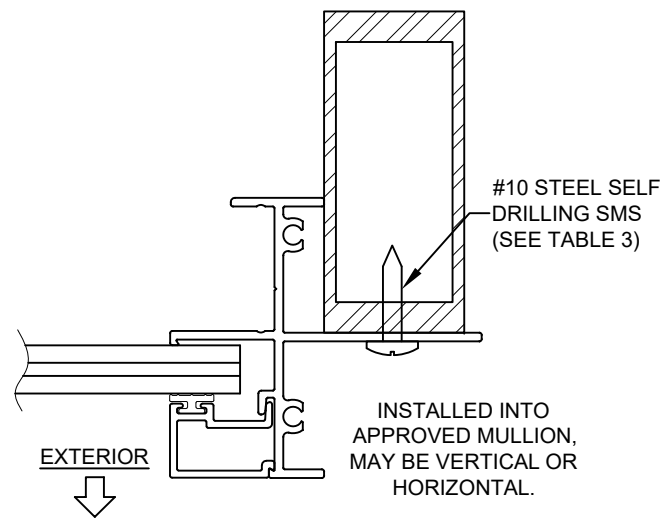




VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



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.

TABLE 3: TROUGH-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 or #12 SMS Carbon Steel or 18-8, 316 or 410 SS	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.	0.057"	7/16"		
	A36 Steel	0.050"	7/16"		

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

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REGISTRATION #29296

ALUMINUM PICTURE WINDOW

CROSS SECTION & GENERAL NOTES

PW4120A

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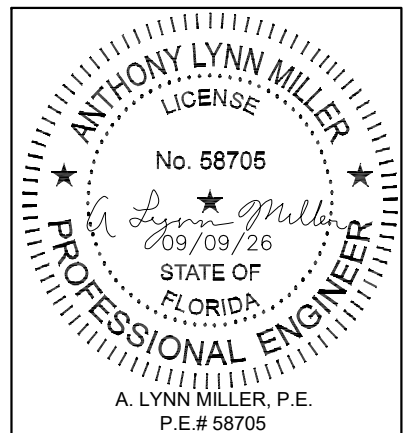


TABLE 4:

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										

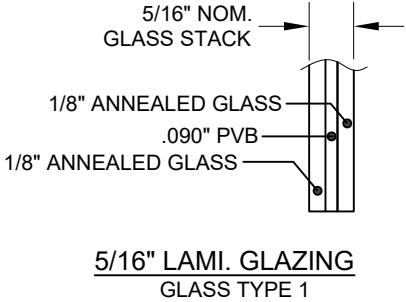
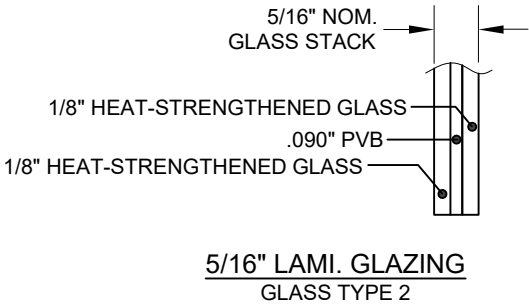


TABLE 5:

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.

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WINDOWS
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3400 PRECISION DRIVE
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REGISTRATION #29296

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ALUMINUM PICTURE WINDOW
DESIGN PRESSURE TABLES AND
GLASS DETAILS

09/09/26

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PW4120A

PW4120-LM-HVHZ

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PROFESSIONAL ENGINEER
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P.E.# 58705

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

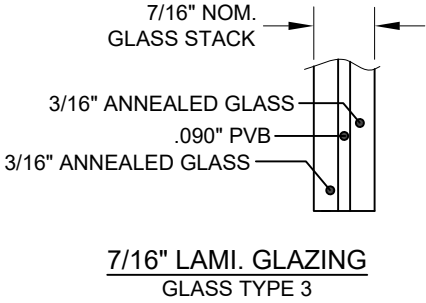


TABLE 7:

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

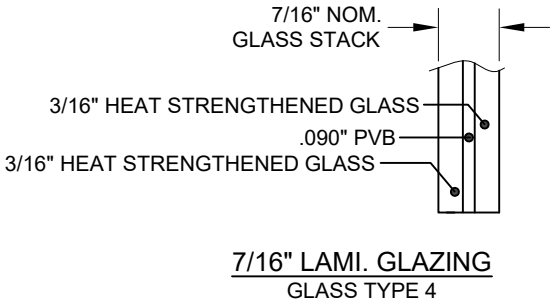
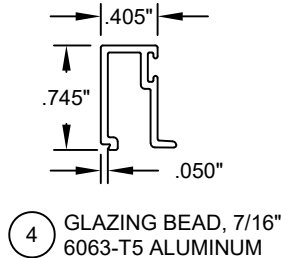
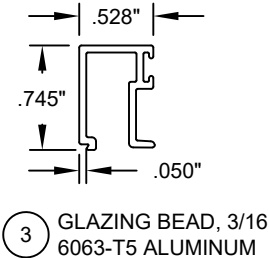
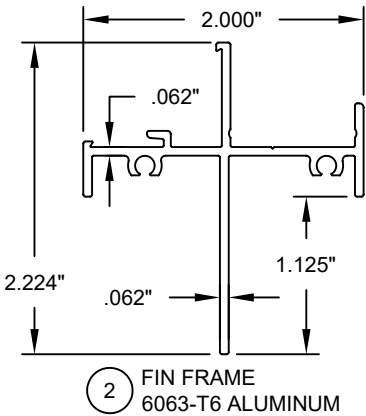
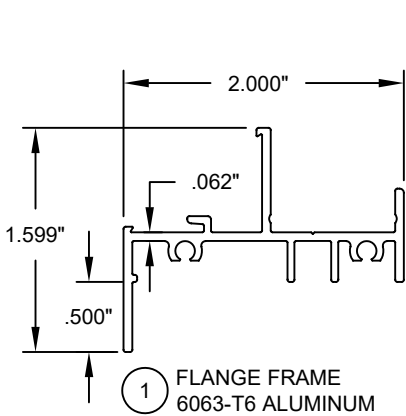


TABLE 8:

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.

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	ALUMINUM PICTURE WINDOW DESIGN PRESSURE TABLES, GLASS DETAILS & BOM	Sheet PW4120A	Title	Series

