

SERIES PW5540, IMPACT RESISTANT,
VINYL, CASEMENT PICTURE WINDOW

FLORIDA PRODUCT APPROVAL #5012

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

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.

8) FRAME FLANGES OR INTEGRAL FINIS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME. IF APPLICABLE, THE EXPOSED ALUMINUM EDGE MUST BE PAINTED TO PROTECT AGAINST CORROSION.

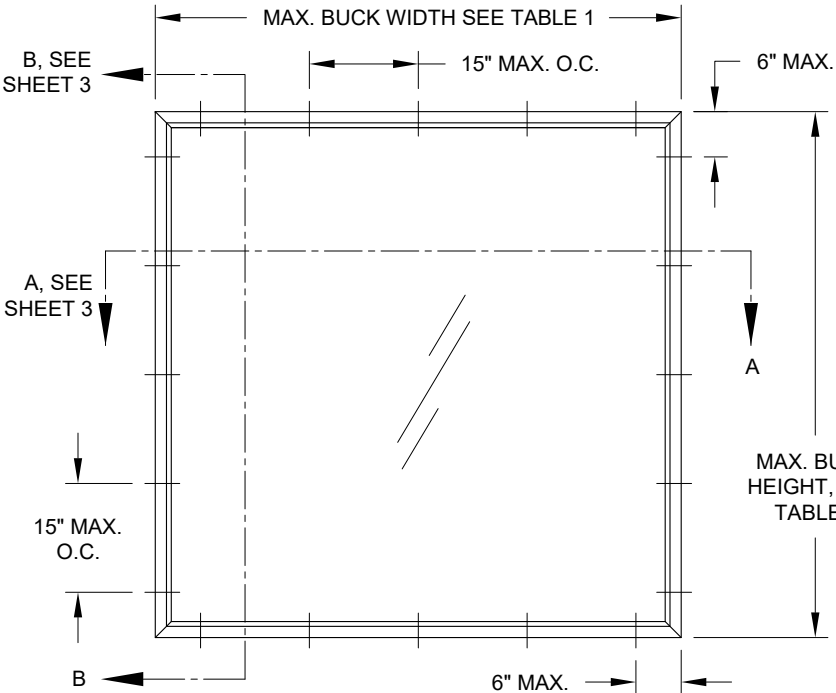
VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 6-3/4"

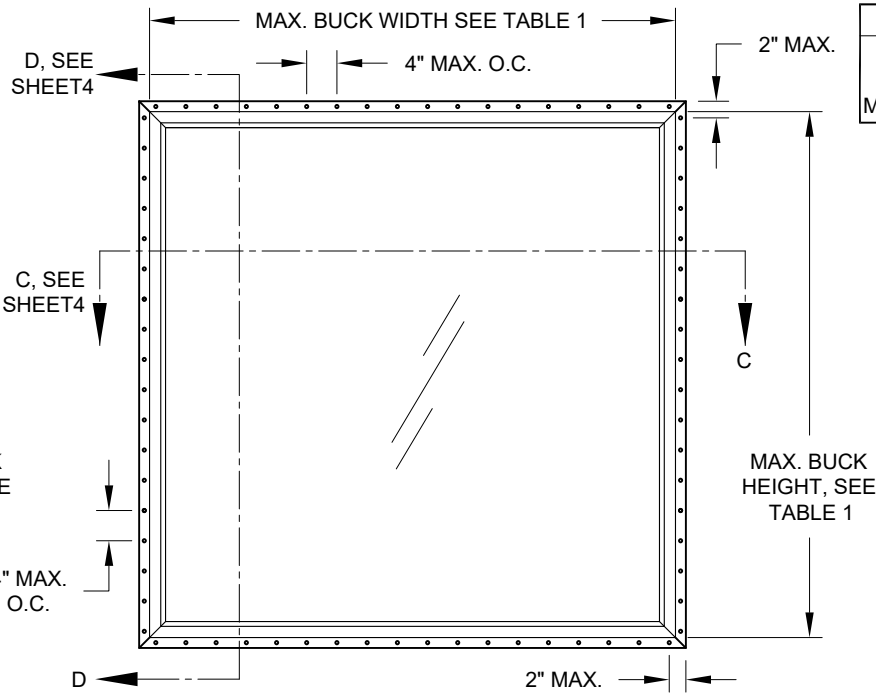
HEIGHT: BUCK HEIGHT - 6-3/4"

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.

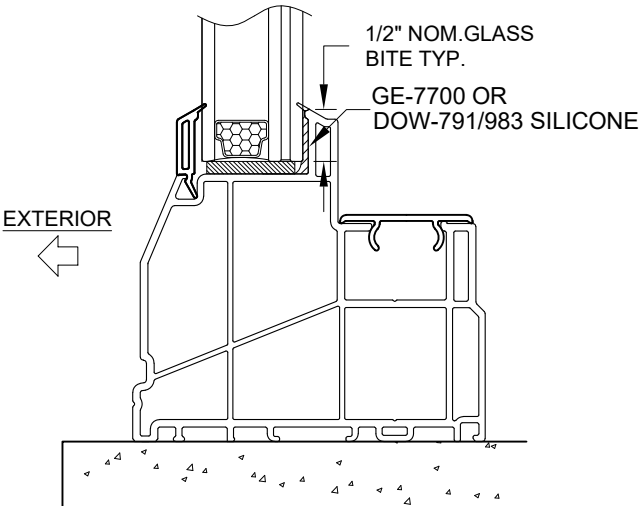
ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD,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



TYP. EQUAL-LEG/BOX & FLANGE
FRAME (SHAPES SIMILAR)



TYP. INTEGRAL FIN & J-CHANNEL
FRAME (SHAPES SIMILAR)



TYP. GLAZING DETAIL

SHAPES MAY BE USED BY INSCRIBING THE SHAPE IN A BLOCK AND OBTAINING DESIGN PRESSURES FOR THAT BLOCK SIZE FROM THE TABLE ON THIS SHEET.

TABLE 1:

Window Buck Size		Design Pressure		Product Rating
Width	Height	(+) psf	(-) psf	
84	54	65.0*	65.0*	CW-PG70
84	54	70.0	70.0	CW-PG70
84	72	70.0	70.0	CW-PG70
96	63	70.0	70.0	CW-PG70
75	48	50.0	50.0	CW-PG50
36	72	50.0	50.0	CW-PG50

* IMPACT/CYCLE DESIGN PRESSURE IS LIMITED FOR UNITS USING AN ANNEALED GLASS CAP.

DESIGN PRESSURE RATING
SEE TABLE 1

WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
LARGE AND SMALL MISSILE
IMPACT RESISTANT
MISSILE LEVEL D, WIND ZONE 4

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

PGT WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
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REGISTRATION #29296

09/09/26

JENS ROSOWSKI

PW5540-LM

1 OF 4

PW5540

VINYL CASEMENT PICTURE WINDOW

ELEVATION & GENERAL NOTES

Rev. #

Date

By

DWG No.

Sheet

Series

Desc.

Title

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

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

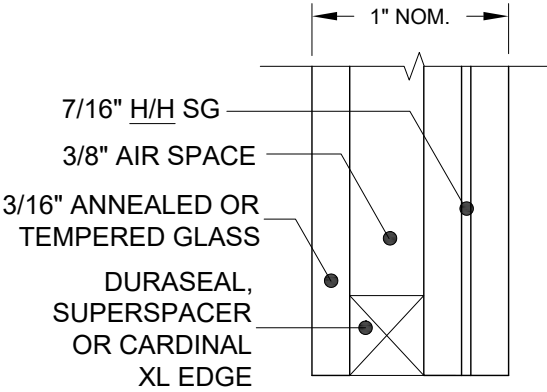
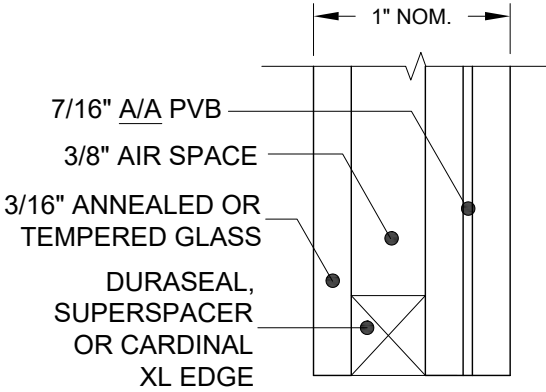
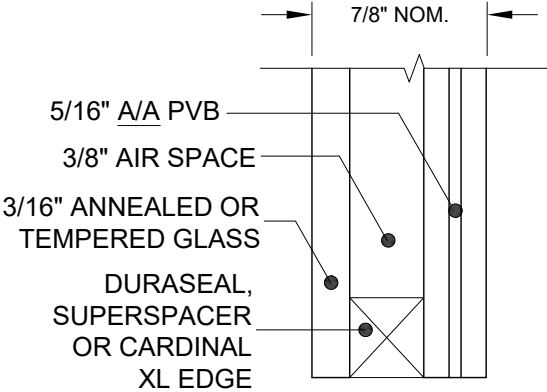
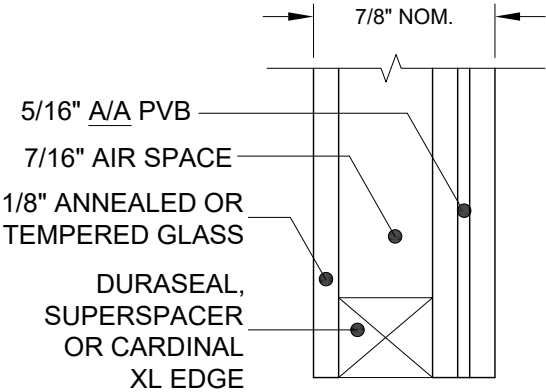
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS Carbon Steel or 18-8, 316, 410 SS Max. DP of 50.0 psf	Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
3/16" Steel Ultracon+ Max. DP of 50.0 psf	Southern Pine (SG=0.55)	7/16"	1-3/8"
	Concrete (min. 3 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Steel Ultracon+	Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" 410 SS Crete-Flex	Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
1/4" 304 SS Aggre-Gator	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
	Southern Pine (SG=0.55)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2"	1-1/4"

- 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.

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .131" Common Nail Max. DP of 50.0	Southern Pine (SG=.55)	9/16"	2-7/16"
	Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .131" Ring-shank Nail	Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .145" Roofing Nail	Southern Pine (SG=.55)	9/16"	2-7/16"
#10 SMS Carbon Steel or 18-8, 316 or 410 SS	Southern Pine (SG=.55)	3/4"	1-3/8"
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	Steel, A36	3/8"	0.050"

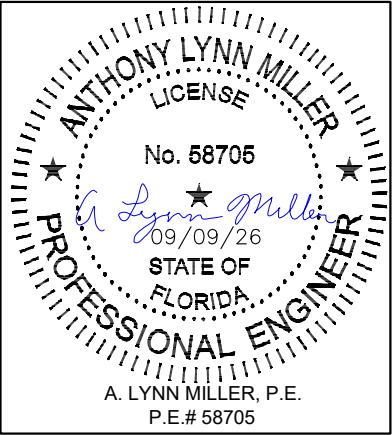
- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE.
2) ALL SCREWHEAD TYPES ARE APPLICABLE.
3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.

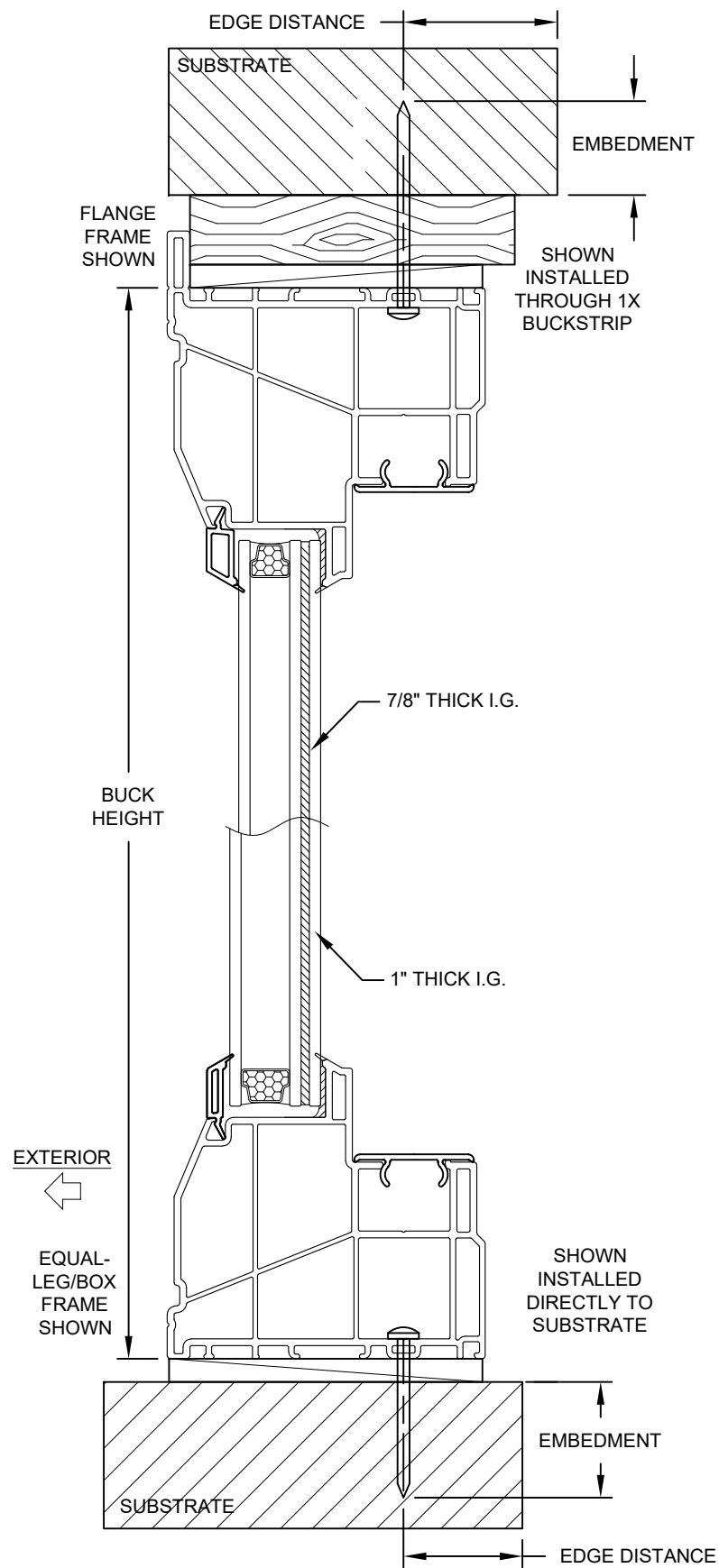


GLAZING TYPES

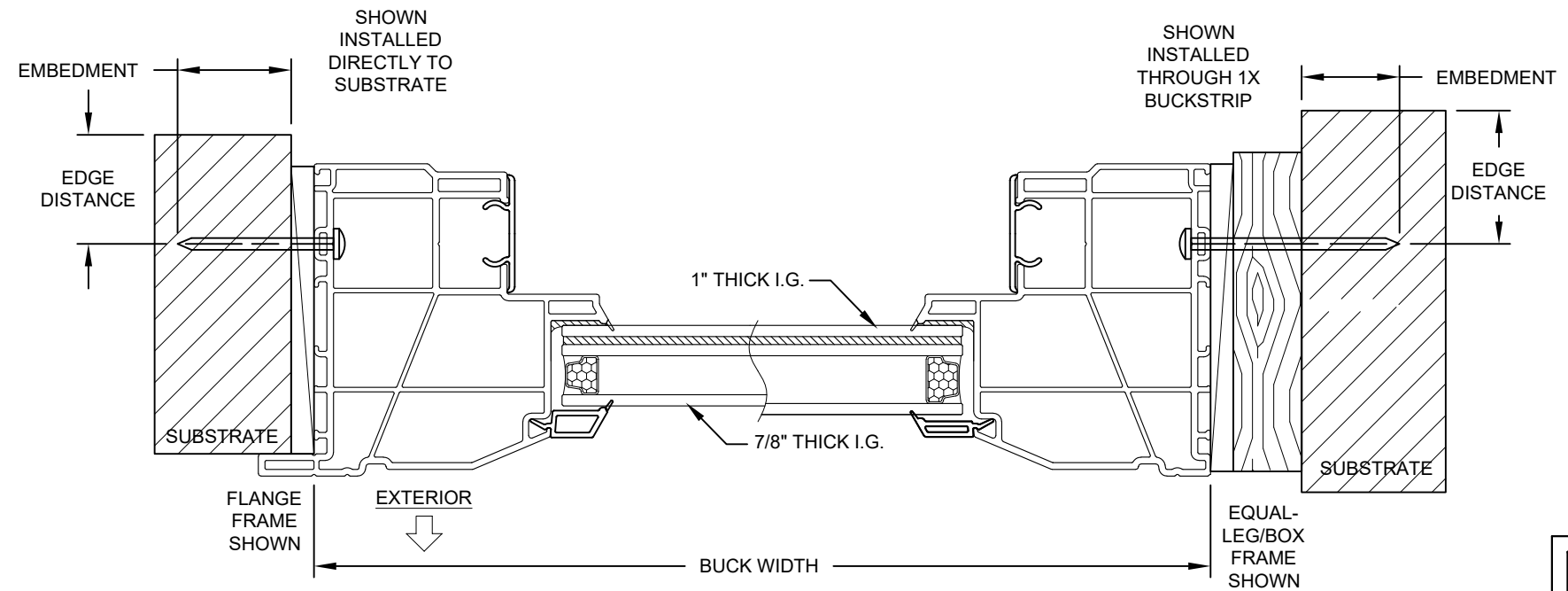
PVB = KURARAY TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.
A = ANNEALED
H = HEAT STRENGTHENED

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.	REGISTRATION #29296	VINYL CASEMENT PICTURE WINDOW ANCHORS AND GLAZING DETAILS	By JENS ROSOWSKI	Date 09/09/26	DWG No. PW5540-LM
PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	VINYL CASEMENT PICTURE WINDOW ANCHORS AND GLAZING DETAILS	PW5540	2 OF 4	Sheet	PW5540

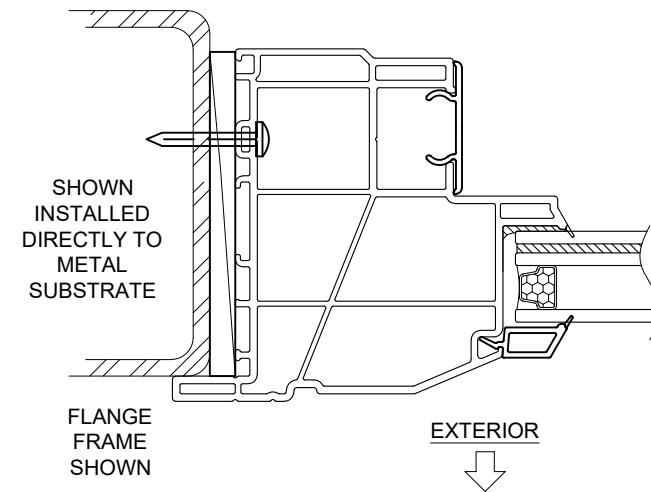




VERTICAL SECTION B-B



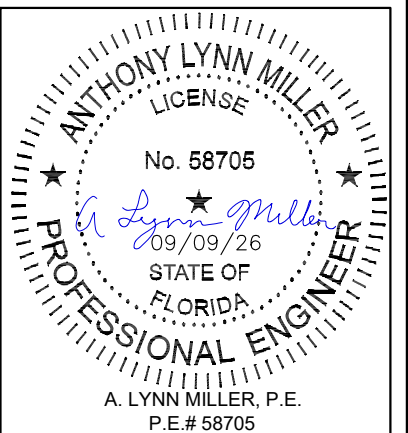
HORIZONTAL SECTION A-A

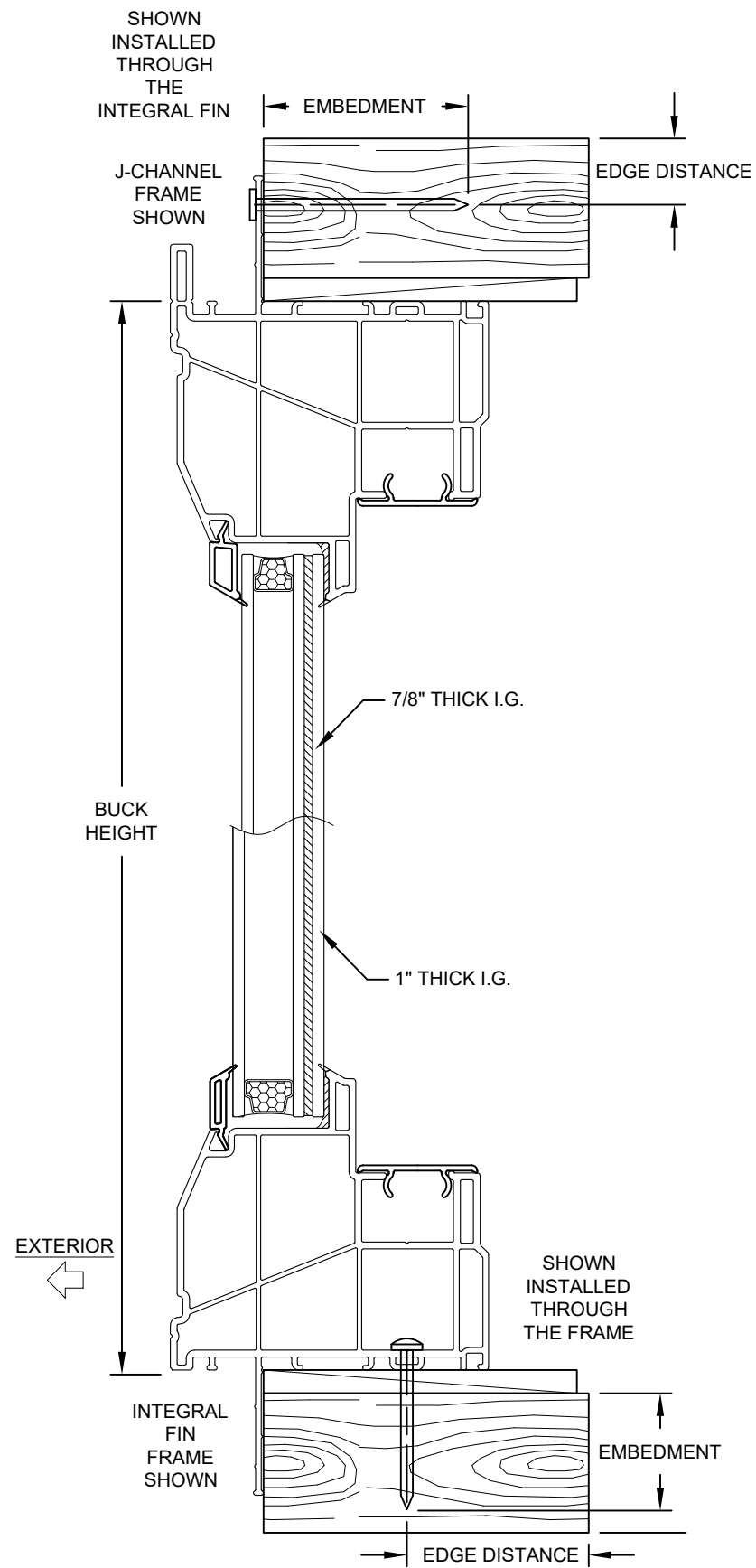


INSTALLATION NOTES:

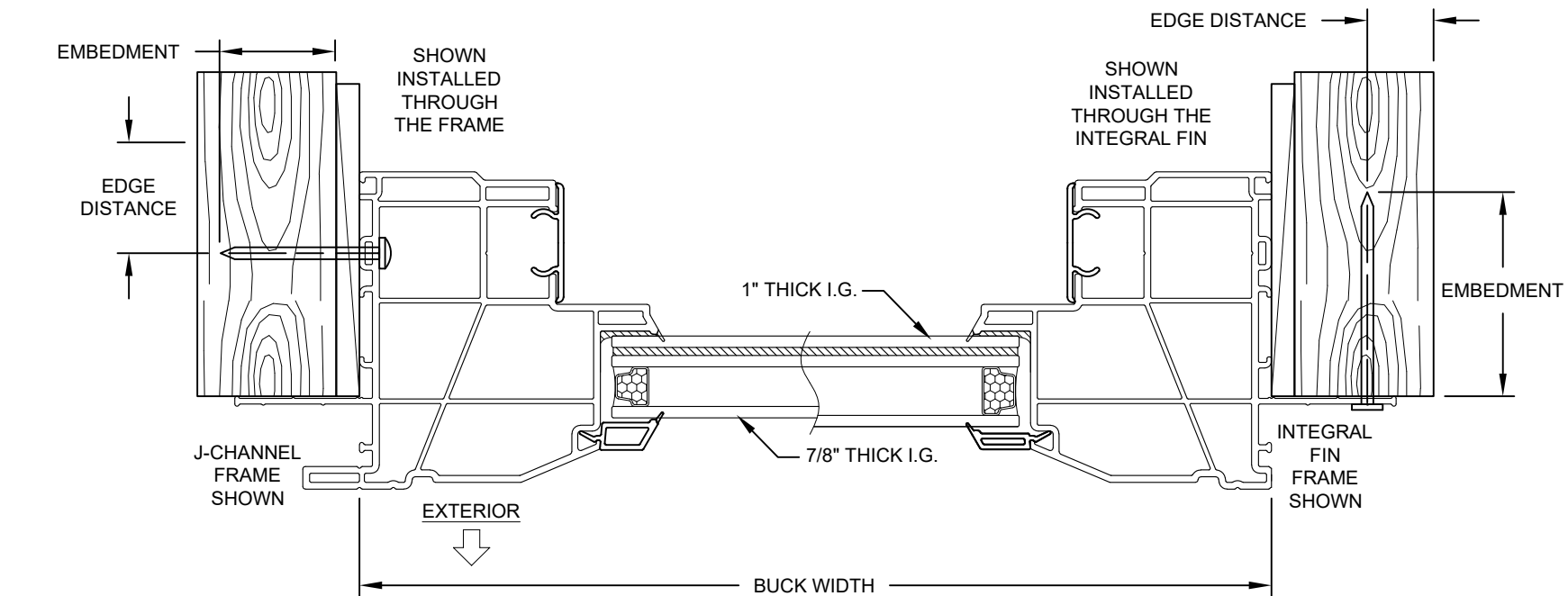
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

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VINYL CASEMENT PICTURE WINDOW		09/09/26		JENS ROSOWSKI	
FLANGE/EQUAL-LEG INSTALLATION		3 OF 4		PW5540-LM	
PW5540		3 OF 4		PW5540-LM	

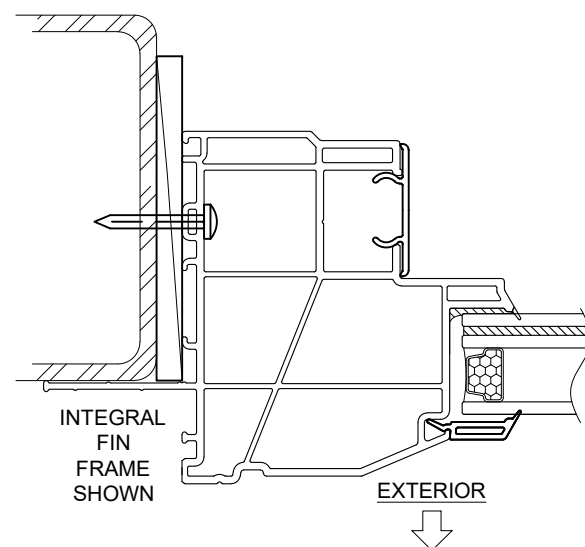




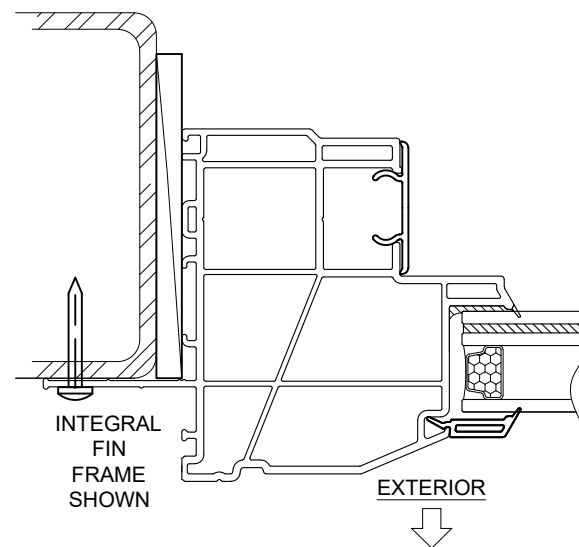
VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



INSTALLATION THROUGH THE FRAME, INTO METAL



INSTALLATION THROUGH THE INTEGRAL FIN, INTO METAL

HYBRID CONFIGURATIONS
(FLANGE FRAME/FIN FRAME)
ALLOWED WITH MULLION
INSTALLATION. SEE PAGE 3
FOR FLANGE FRAME
INSTALLATION DETAILS.

INSTALLATION NOTES:

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FIN INSATALLATION Desc.		PW5540 Sheet		4 OF 4		4 OF 4

