



Product Approval
USER: Public User

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SECRETARY

FL #

FL5012-R27

Application Type

Revision

Code Version

2023

Application Status

Approved

Comments

Archived



Product Manufacturer

PGT Industries

Address/Phone/Email

1070 Technology Drive
North Venice, FL 34275
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Authorized Signature

Jens Rosowski
jrosowski@pgtindustries.com

Technical Representative

Lynn Miller, P.E.

Address/Phone/Email

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Quality Assurance Representative

Address/Phone/Email

Category

Windows

Subcategory

Fixed

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

A. Lynn Miller, P.E.

Florida License

PE-58705

Quality Assurance Entity

Keystone Certifications, Inc.

Quality Assurance Contract Expiration Date

12/31/2032

Validated By

Steven M. Urich, PE

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL5012_R27_COI_Cert of Independence.pdf](#)

Referenced Standard and Year (of Standard)

Standard

Year

AAMA/WDMA/CSA 101/IS2/A440

2017

AAMA/WDMA/CSA 101/IS2/A440

2022

ASTM E 1886

2013

ASTM E1996

2012

Equivalence of Product Standards

Certified By

Florida Licensed Professional Engineer or Architect

[FL5012_R27_Equiv_AAMA 101-17 and AAMA 101-22 Equivalency Letter PGT.pdf](#)

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

08/28/2024

Date Validated

09/03/2024

Date Pending FBC Approval

09/05/2024

Date Approved

10/15/2024

Summary of Products

FL #	Model, Number or Name	Description
5012.1	PW - 640	Aluminum Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R27 II PW640FPA-NI-REV D.pdf Verified By: A. Lynn Miller, PE 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R27 AE Eng Eval - PW640 - REV D.pdf Created by Independent Third Party: No
5012.2	PW-5420	EnergyVue Vinyl Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R27 II PW5420FPA-NI-REV E.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R27 AE Eng Eval - PW5420 - REV E.pdf Created by Independent Third Party: No
5012.3	PW-5420 with U-Lite Thin Triple Glazing	Vinyl Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R27 II PW5420FPA-U-LITE.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL5012 R27 AE PW5420 - U-Lite - ENG EVAL.pdf Created by Independent Third Party: No
5012.4	PW-5440	EnergyVue Vinyl Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R27 II PW5440FPA-NI-REV E.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R27 AE Eng Eval - PW5440 - REV E.pdf Created by Independent Third Party: No
5012.5	PW-5440 with U-Lite Thin Triple Glazing	Vinyl Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R27 II PW5440FPA-U-LITE.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL5012 R27 AE PW5440 - U-Lite - ENG EVAL.pdf Created by Independent Third Party: No
5012.6	PW-5520	WinGuard Vinyl Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes		Installation Instructions FL5012 R27 II PW5520FPA-LM-REV D.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No

Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Evaluation Reports FL5012_R27_AE_Eng_Eval - PW5520 - REV D.pdf Created by Independent Third Party: No
5012.7	PW-5540	WinGuard Vinyl Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012_R27_II_PW5540FPA-LM-REV D.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012_R27_AE_Eng_Eval - PW5540 - REV D.pdf Created by Independent Third Party: No

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Product Approval Accepts:



SERIES PW5420 NON-IMPACT RESISTANT,
VINYL PICTURE WINDOW

FLORIDA PRODUCT APPROVAL #5012

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

2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

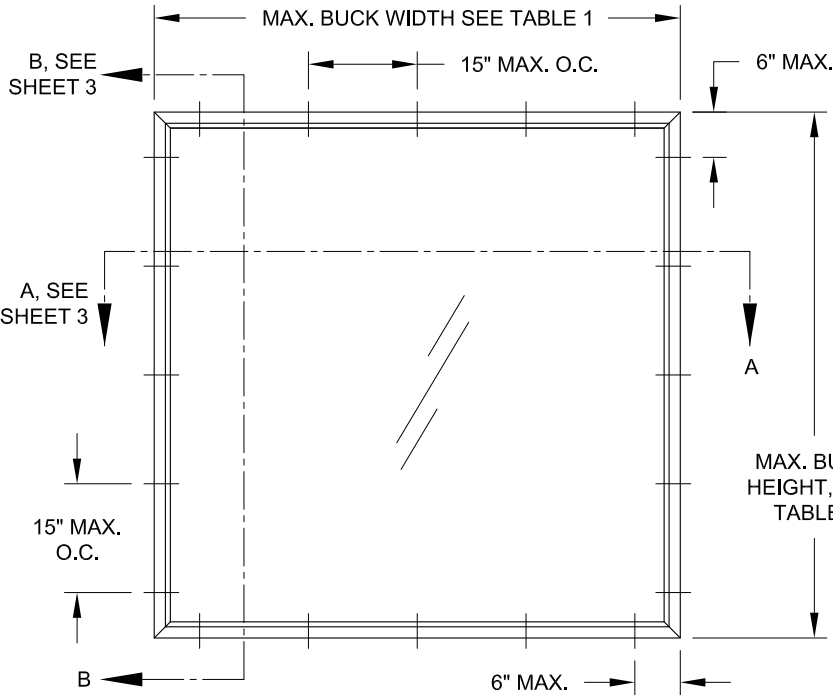
3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLES 2 & 3. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

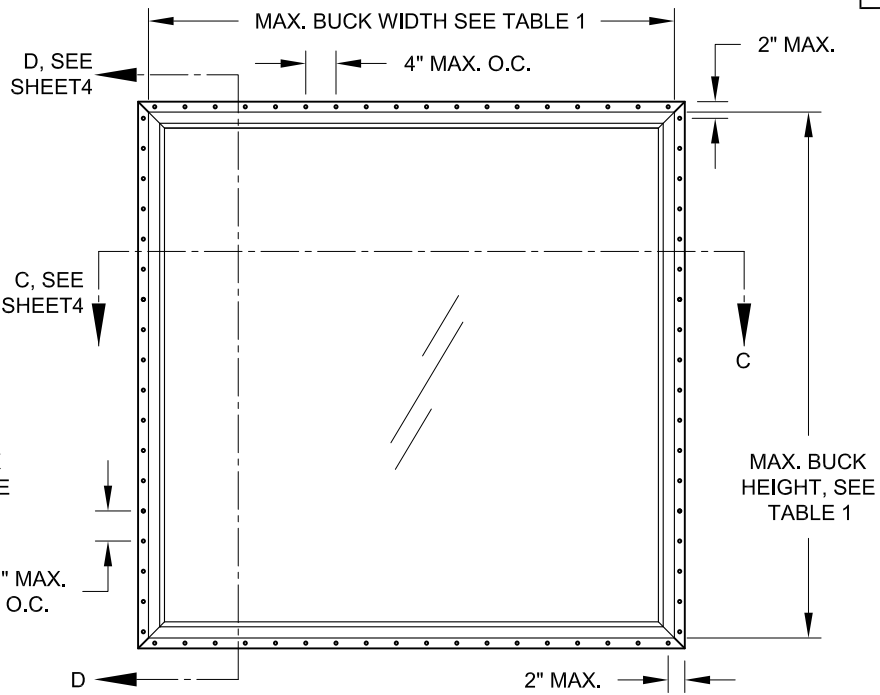
5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

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.

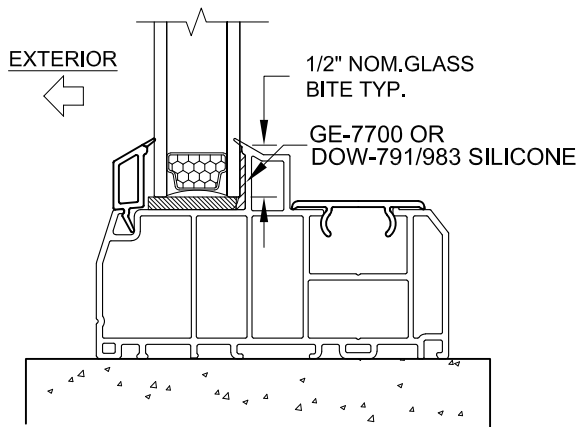
7) FRAME FLANGES OR INTEGRAL FINES MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.



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



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



TYP. GLAZING DETAIL
SEE NEXT SHEET FOR GLASS TYPES

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.

DESIGN PRESSURE RATING
SEE TABLE 1

IMPACT RATING
NOT RATED FOR IMPACT
RESISTANCE

LMY
By: 10/4/23
Date
Rev
TRIM FLANGE/FIN AND
ANSI Z91.1 NOTES

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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PCT
Custom Windows and Doors
1070 TECHNOLOGY DRIVE
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VINYL PICTURE WINDOW (NI)

By: JENS ROSOWSKI
Date: 06/12/11

ELEVATION & GENERAL NOTES

Rev. # E
Dwg. No. 1 OF 4
Sheet PW5420

Series Desc. PW5420FPA-NI

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.

Window Buck Size		Design Pressure		Product Rating
Width	Height	(+) psf	(-) psf	
120"	60"	70.0	70.0	CW-PG70
96"	63"	50.0	50.0	CW-PG50

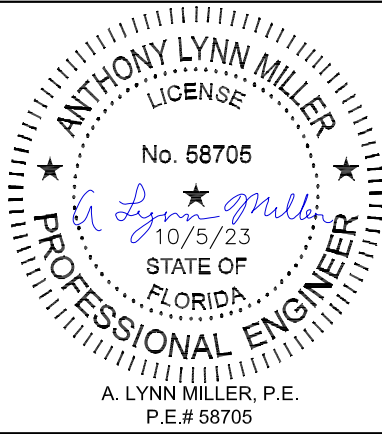


TABLE 2: ANCHORS INSTALLED THROUGH FRAME

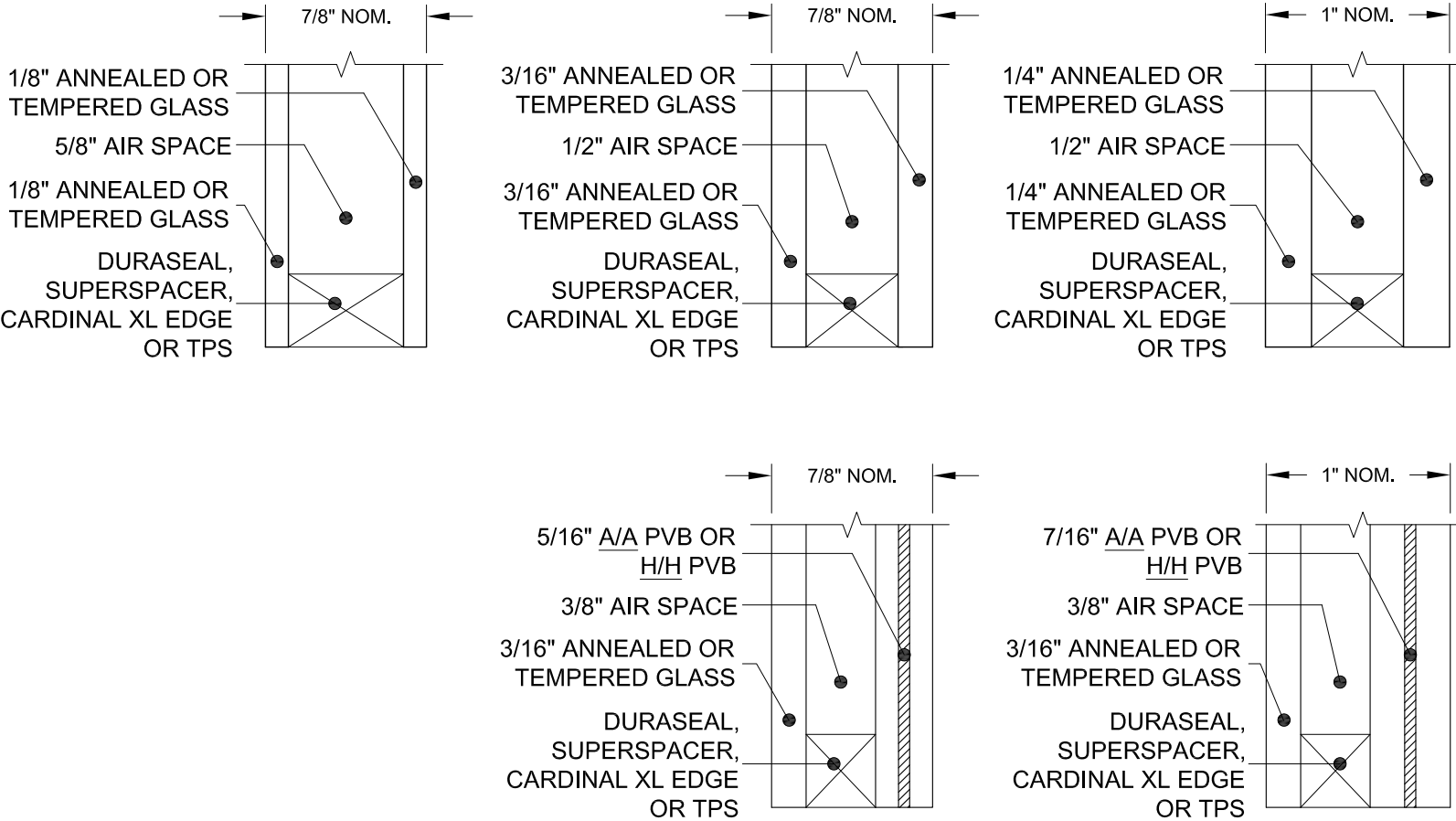
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0 psf	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)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

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

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	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .131" Ring-shank Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
	P.T. Southern Pine (SG=.55)	3/4"	1-3/8"
	Aluminum, 6063-T5	3/8"	0.050"
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Steel, A36	3/8"	0.050"

1) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.



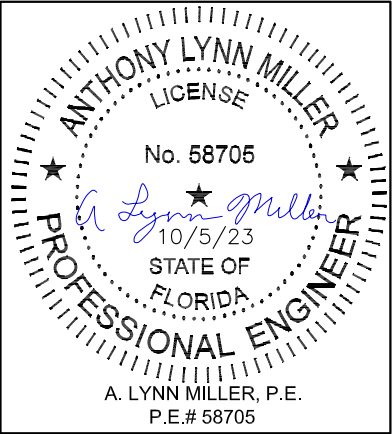
GLASS TYPES

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

VISIBLE LIGHT FORMULAS
WIDTH: BUCK WIDTH - 4-5/16"
HEIGHT: BUCK HEIGHT - 4-5/16"

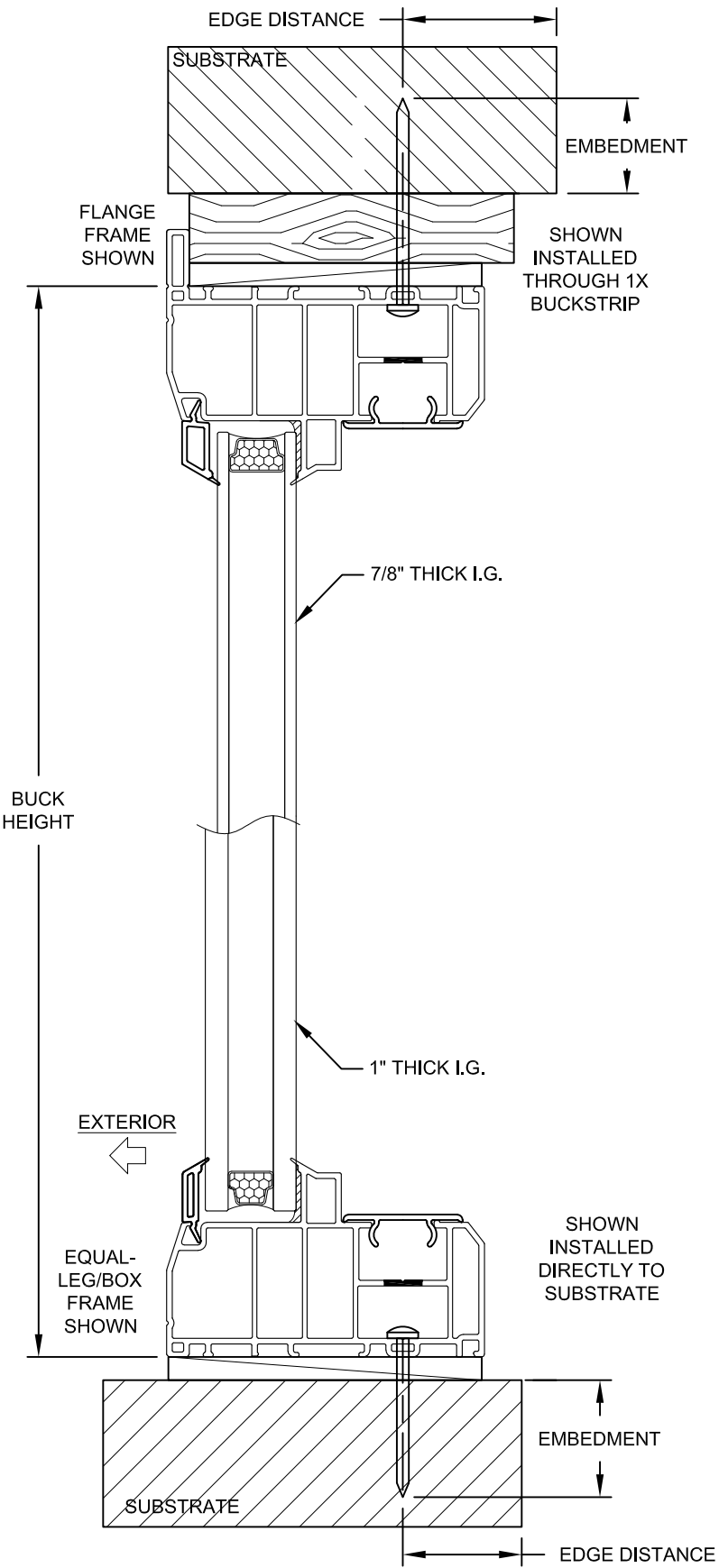
VISIBLE LIGHT WIDTH OR HEIGHT
(ALSO REFERRED TO AS DAYLIGHT
OPENING) IS MEASURED FROM
BEADING TO BEADING.

<div>PGT</div> <div>Custom Windows and Doors</div>		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		COPYRIGHT © 2023 PGT, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
Title	VINYL PICTURE WINDOW (NI)			Date	06/12/11
Series Desc.	ANCHORS AND GLAZING DETAILS		By	JENS ROSOWSKI	
PW5420	2 OF 4		No.	PW5420FFPA-NI	
Sheet			DWG	E	

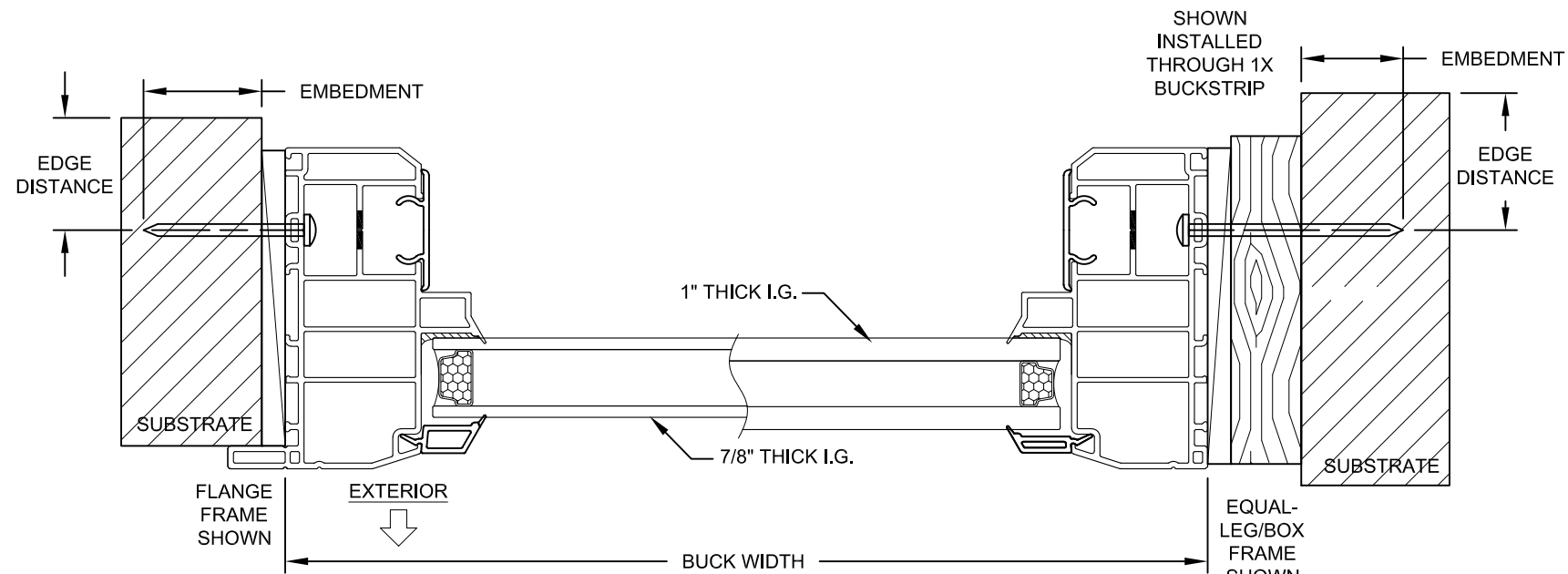


Rev	10/4/23	LMY
Date		
By		

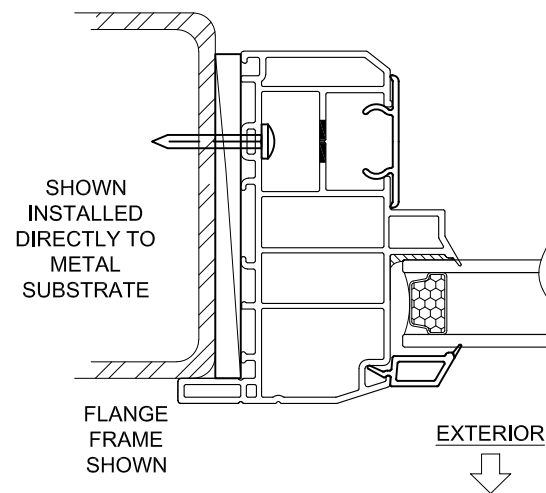
REMOVED ULTRACONS



VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

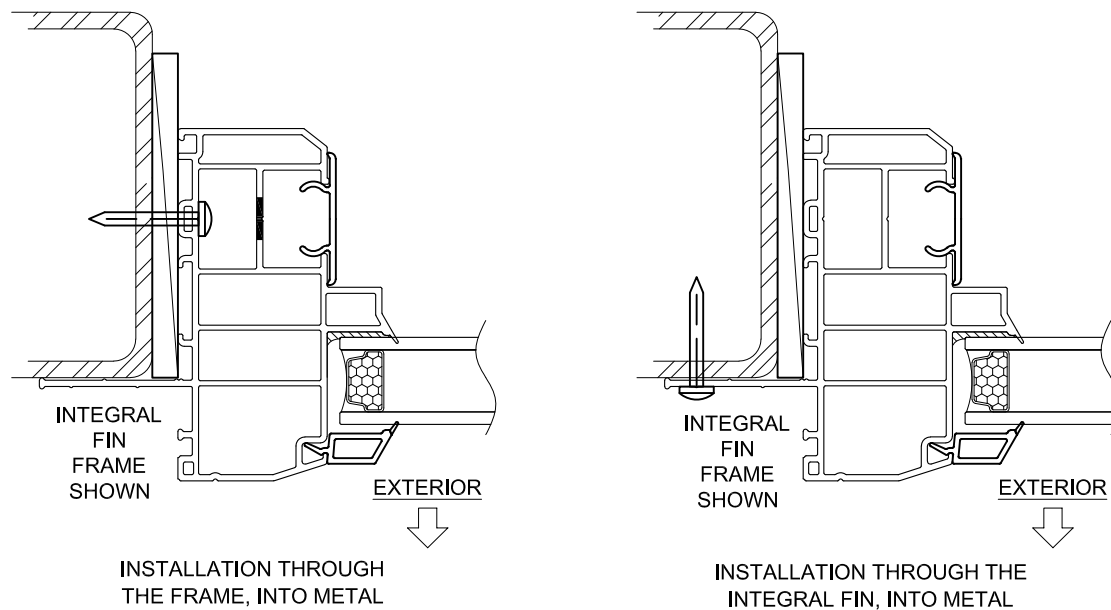
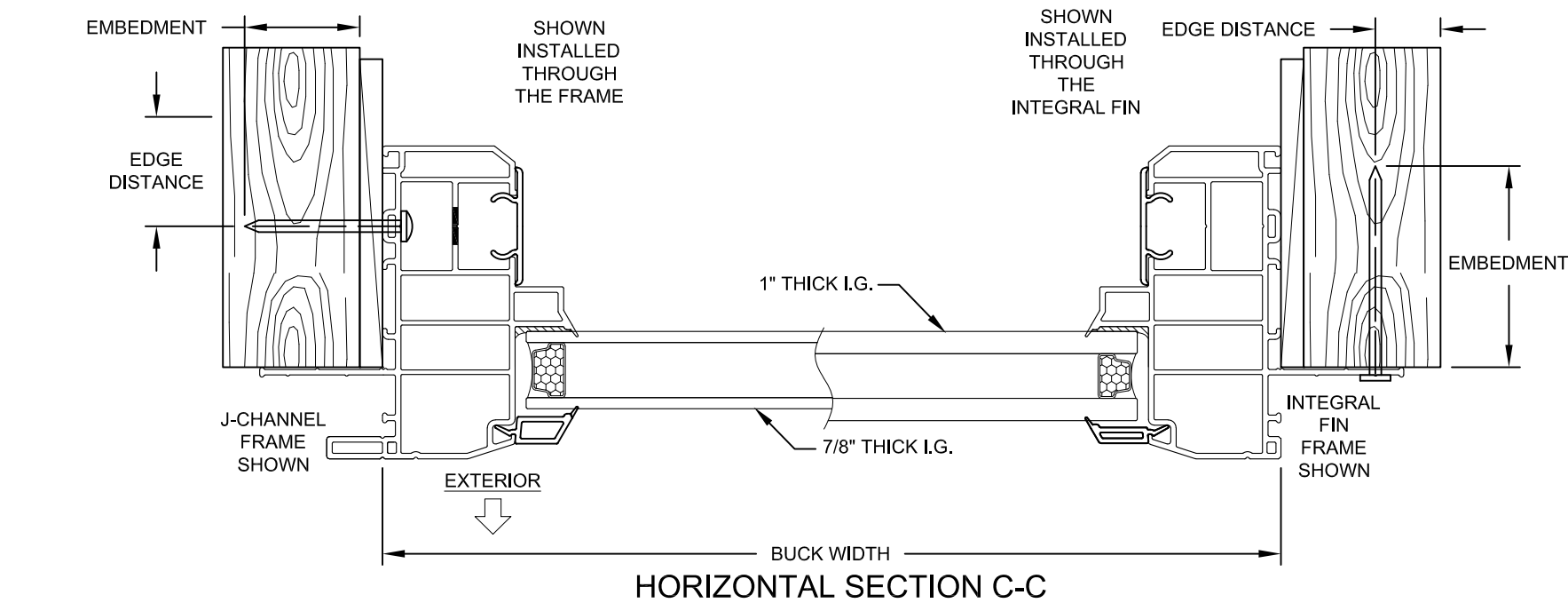
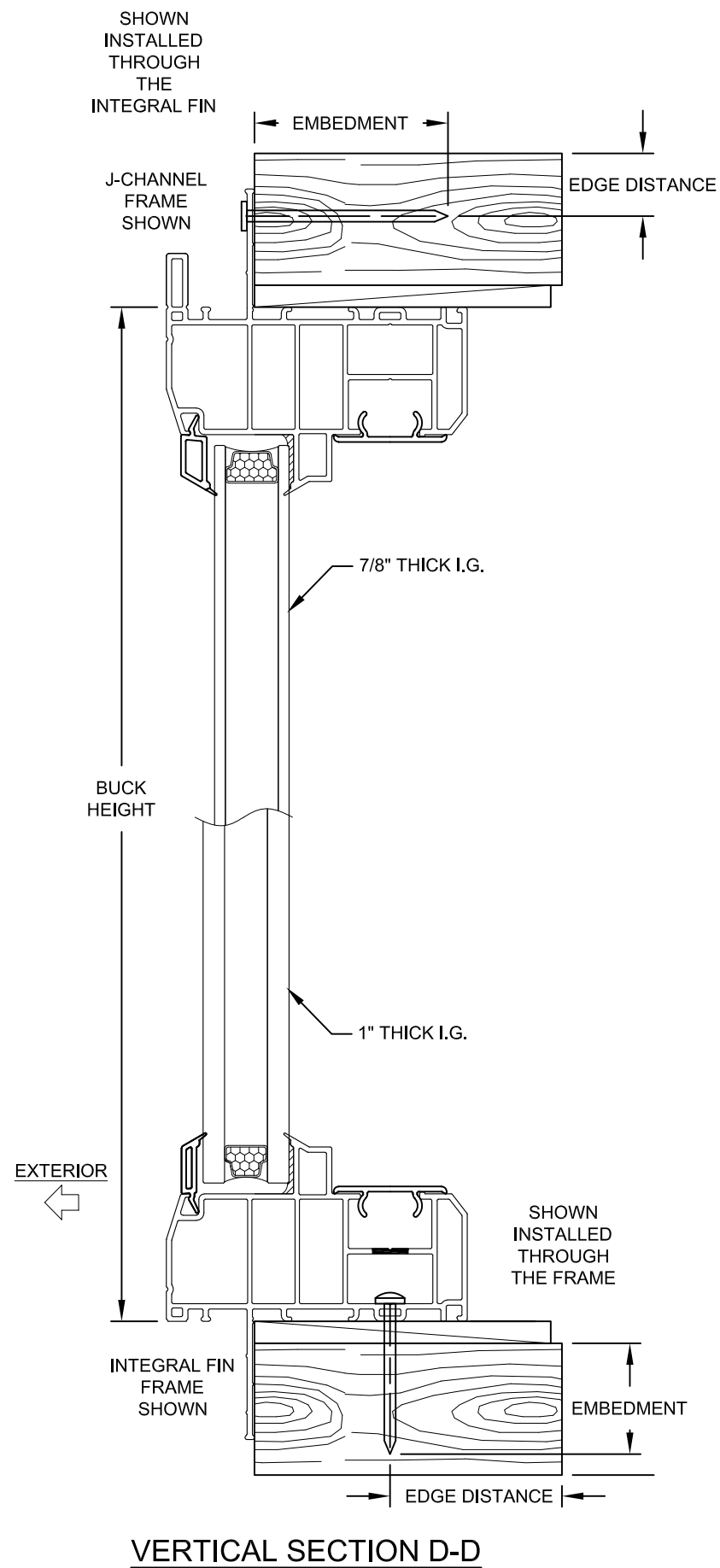


INSTALLATION NOTES:

- 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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PGT Custom Windows and Doors		1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL PICTURE WINDOW (NI)		FLANGE/EQUAL-LEG INSTALLATION		PW5420 Sheet		3 OF 4	
DWG		No.		3 OF 4		PW5420FPA-NI		Rev. #		E	

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/5/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



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

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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PGT Custom Windows and Doors 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		VINYL PICTURE WINDOW (NI) Title		FIN INSTALLATION Desc.		4 OF 4 Sheet	PW5420 Series

ANTHONY LYNN MILLER
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 10/5/23
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 FLORIDA
PROFESSIONAL ENGINEER
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 P.E.# 58705

LMY

By:

10/4/23

Date

HYBRID CONFIG. NOTE

Rev.