

**GENERAL NOTES: SERIES 5420
NON-IMPACT RESISTANT, VINYL FIXED
WINDOW**

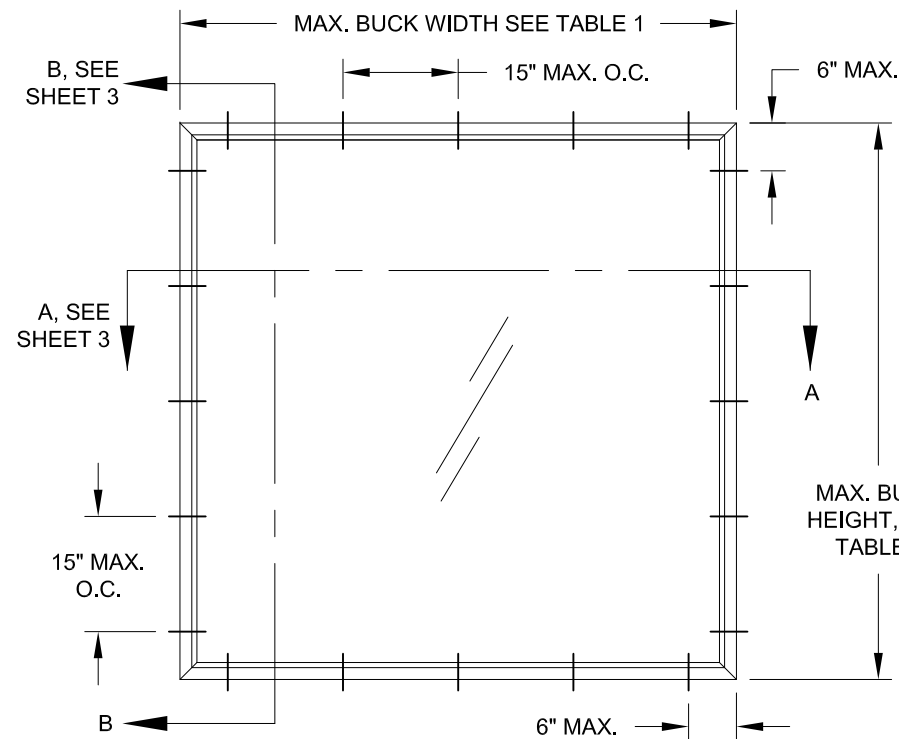
1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC) AND THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) FOR THE DESIGN PRESSURES LISTED.

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, (EOR) OR ARCHITECT OF RECORD, (AOR).

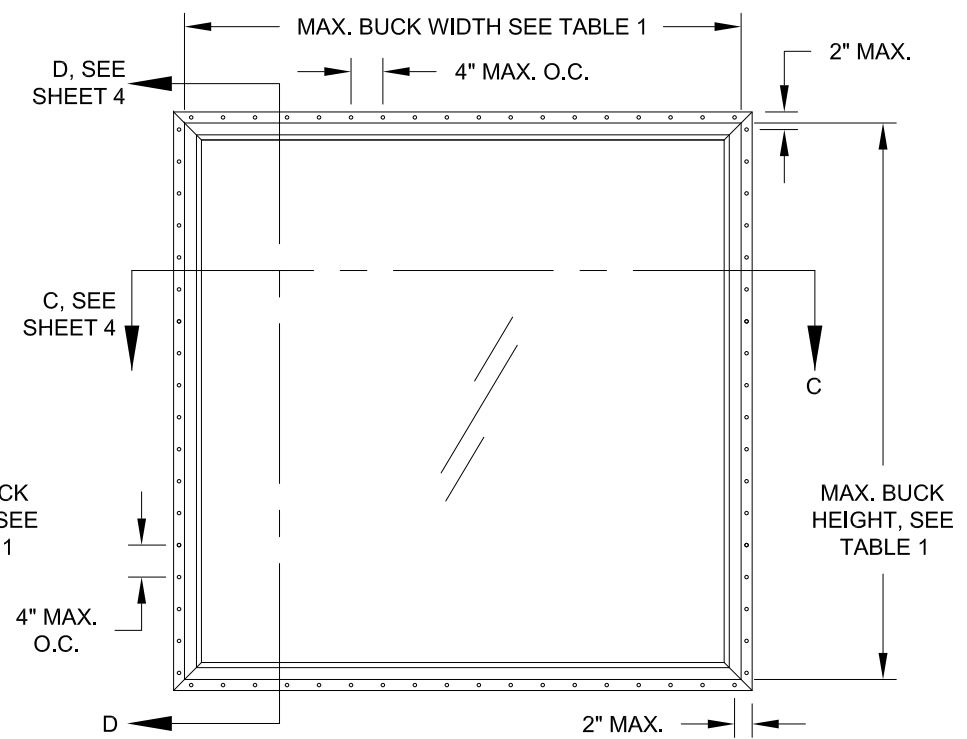
3) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT EMBEDMENT. INSTALLATION ANCHORS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

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

5) 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 SHALL BE COATED OR CORROSION RESISTANT AS SPECIFIED IN THE IBC/IRC.



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



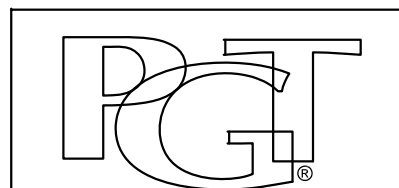
**TYP. INTEGRAL FIN & J-CHANNEL
FRAME (SHAPES SIMILAR)**

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		Certification
Width	Height	(+) psf	(-) psf	(CAR) Number
120"	60"	70.0	70.0	190-1017
96"	63"	50.0	50.0	190-1011

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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series	Rev 2	Desc.	VINYL FIXED WINDOW FPA (NON-IMPACT)	Date	12/13/14
			GENERAL NOTES & ELEVATIONS	Drawn By	J ROSOWSKI
			UPDATED CODE & ANCHORS - JR	Rev 1 Date	5/25/21
				Rev 2 Date	
PW-5420	Scale	NTS	Sheet	1 OF 4	DWG No.
					TDI-PW5420.1
				Rev. No.	A

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

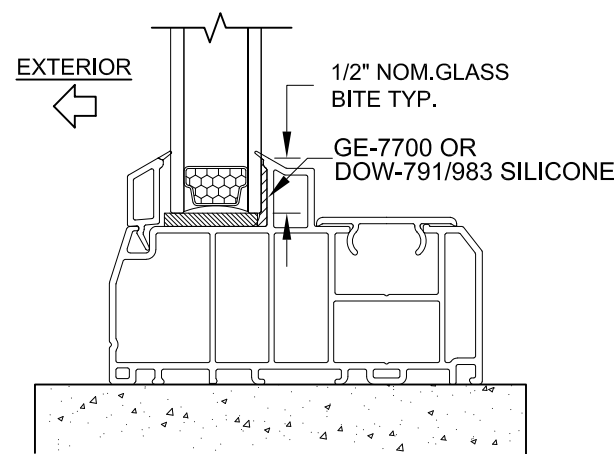
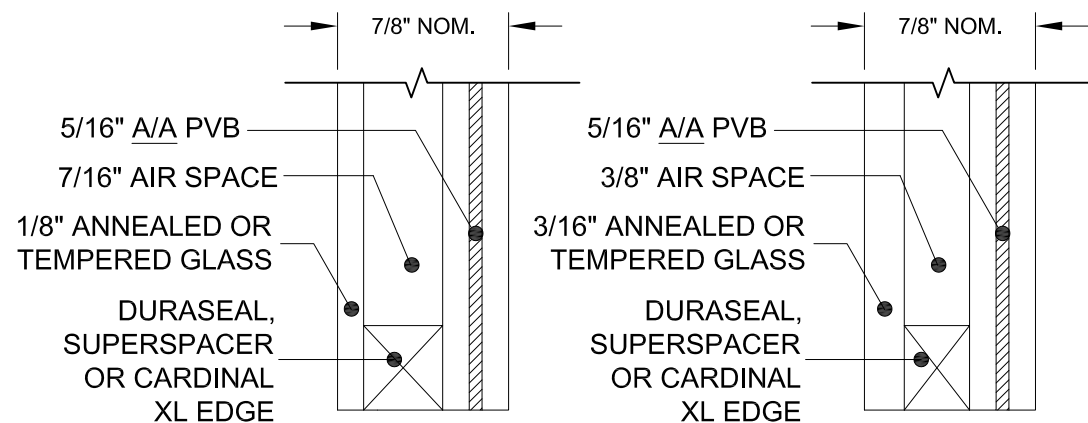
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0 psf	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-3 S.S. or 410 S.S.)	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. 2.85 ksi)	1"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"
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. 2.85 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	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"

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

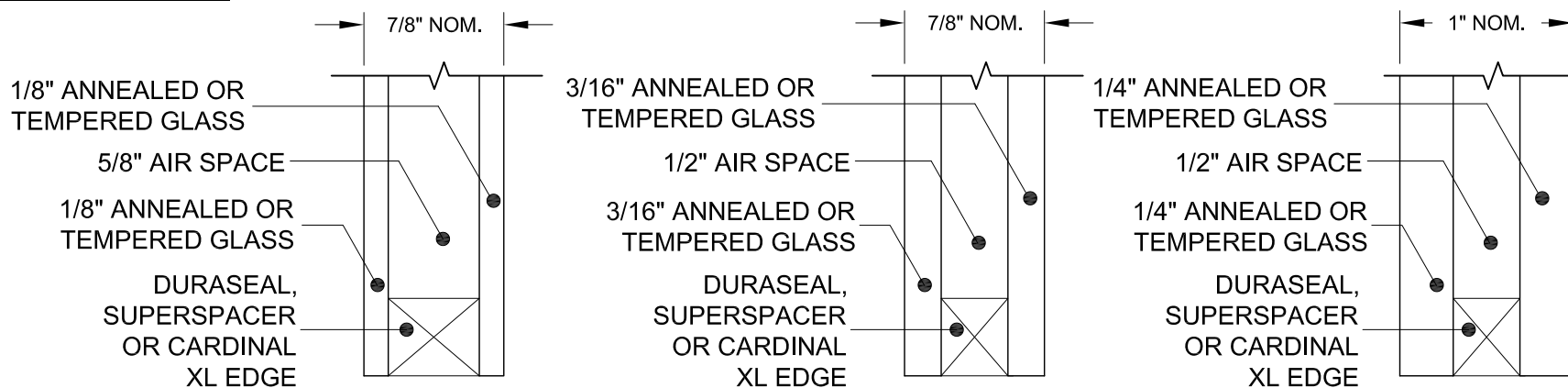
Anchor	Substrate	Min. Edge Distance	Min. Embedment	
2-1/2" x .131" Common Nail Max. DP of 50.0	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"	
	2-1/2" x .131" Ring-shank Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
	2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=.55)	9/16"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	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.)	
	Steel, A36	3/8"	0.050"	

ANCHOR NOTES:

- "UNROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.
- ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.
- ANY HEAD TYPE IS APPLICABLE.



TYP. GLAZING DETAIL



GLAZING TYPES

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.

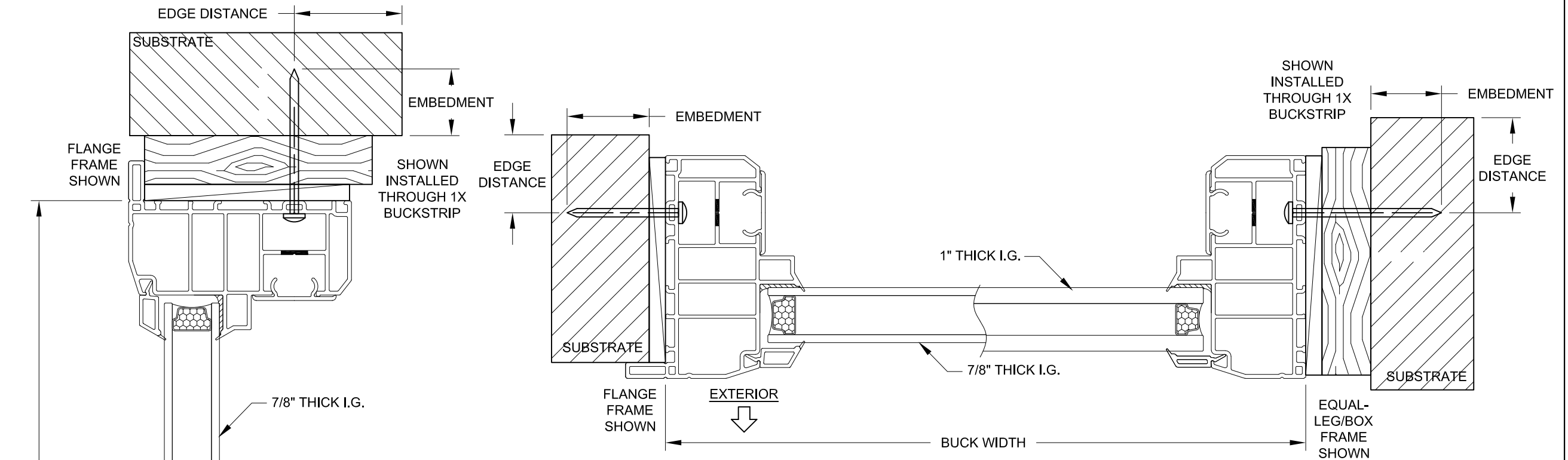
PVB INTERLAYER MANUFACTURED BY KURARAY AMERICA, INC.



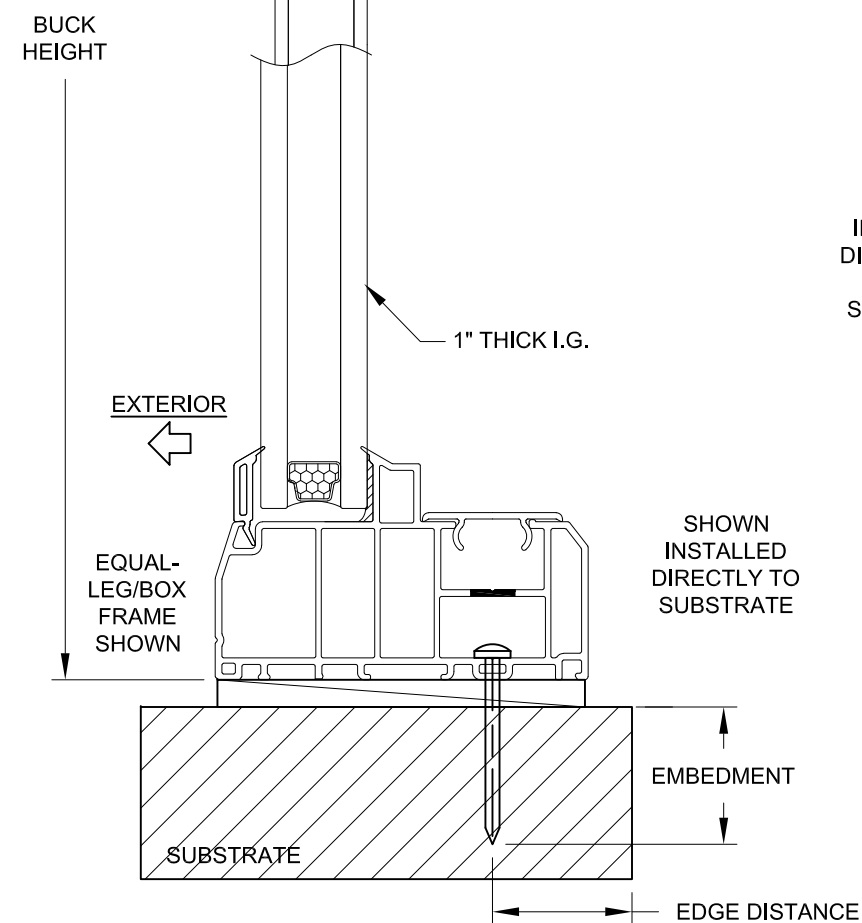
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941)-480-1600

Series	Rev 2	Rev 1	Rev 1	Rev 1	Rev 1	Rev 1	Rev 1
PW-5420	Scale	NTS	Sheet	2 OF 4	DWG No.	TDI-PW5420.1	Rev. No.
VINYL FIXED WINDOW FPA (NON-IMPACT)				Date	12/13/14		
GLASS/ANCHORS OPTIONS				Drawn By	J ROSOWSKI		
UPDATED CODE & ANCHORS - JR				Rev 1 Date	5/25/21		

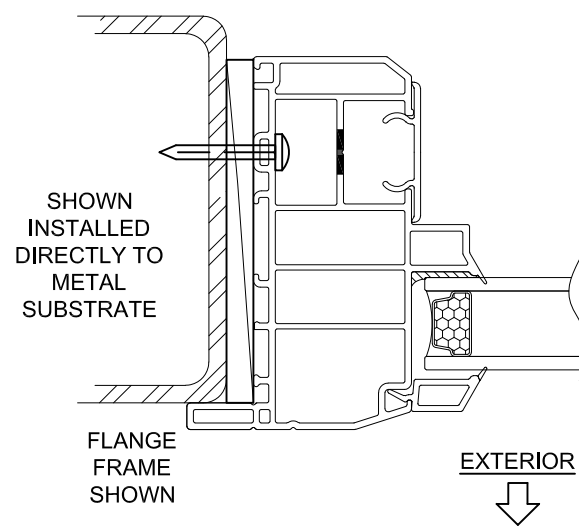
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HORIZONTAL SECTION A-A



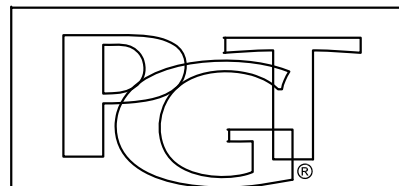
VERTICAL SECTION B-B



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.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

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Series	Rev 1	Rev 2	Scale	Sheet	DWG No.	Rev. No.
Title		Date		Drawn By		Date
VINYL FIXED WINDOW FPA (NON-IMPACT)		12/13/14		J ROSOWSKI		
FLANGE & EQUAL-LEG/BOX FRAMES						
UPDATED CODE & ANCHORS - JR		5/25/21				
PW-5420		NTS		3 OF 4		TDI-PW5420.1
						A

ANTHONY LYNN MILLER
106954
LICENSED PROFESSIONAL ENGINEER
A Lynn Miller 5/25/21
A. LYNN MILLER, P.E.
P.E.# 106954

SHOWN
INSTALLED
THROUGH
THE
INTEGRAL FIN

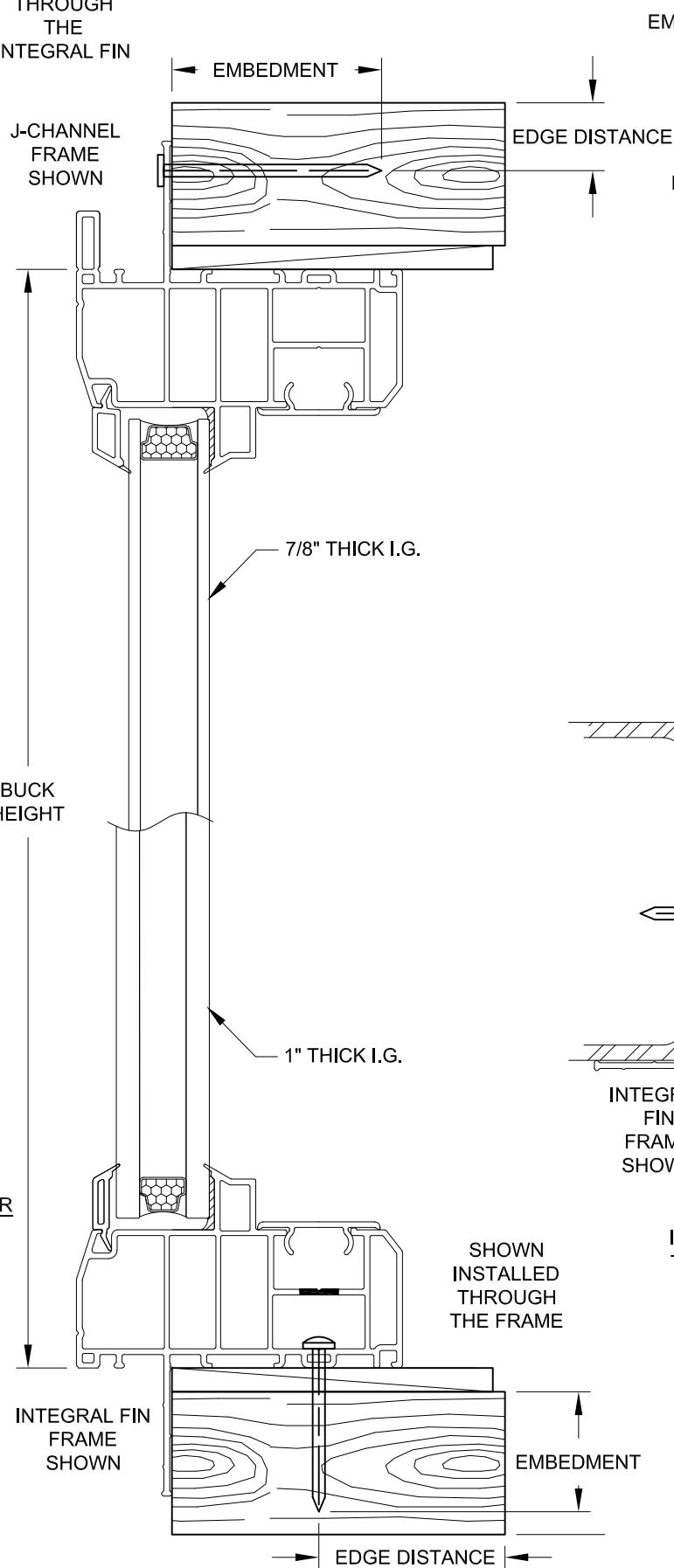
J-CHANNEL
FRAME
SHOWN

BUCK
HEIGHT

EXTERIOR

INTEGRAL FIN
FRAME
SHOWN

VERTICAL SECTION D-D



EMBEDMENT

EDGE DISTANCE

EDGE DISTANCE

J-CHANNEL
FRAME
SHOWN

EXTERIOR

SHOWN
INSTALLED
THROUGH
THE
FRAME

HORIZONTAL SECTION C-C

SHOWN
INSTALLED
THROUGH
THE
INTEGRAL FIN

EDGE DISTANCE

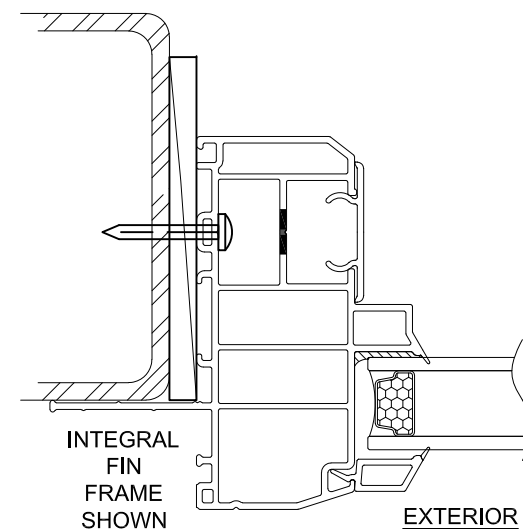
EMBEDMENT

INTEGRAL
FIN
FRAME
SHOWN

1" THICK I.G.

7/8" THICK I.G.

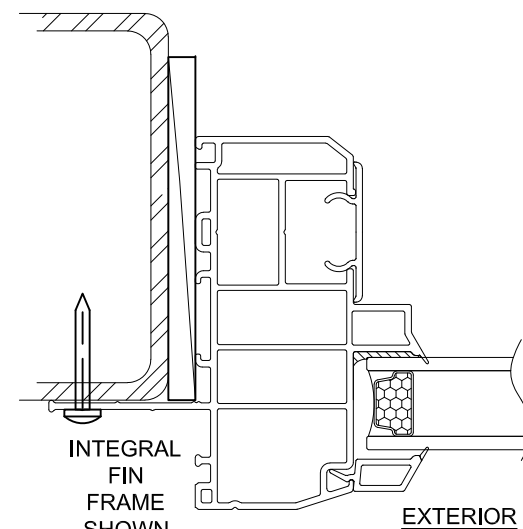
BUCK WIDTH



INTEGRAL
FIN
FRAME
SHOWN

EXTERIOR

INSTALLATION THROUGH
THE FRAME, INTO METAL



INTEGRAL
FIN
FRAME
SHOWN

EXTERIOR

INSTALLATION THROUGH THE
INTEGRAL FIN, INTO METAL

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J-CHANNEL & INTEGRAL FIN FRAMES		Drawn By		J ROSOWSKI					
UPDATED CODE & ANCHORS - JR									
PW-5420	Scale	NTS	Sheet	4 OF 4	DWG No.	TDI-PW5420.1	Rev. No.	A	

A Lynn Miller 5/25/21
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P.E.# 106954