

SERIES 9660/9770 PW VINYL PICTURE WINDOW
NON-IMPACT RESISTANT

FLORIDA PRODUCT APPROVAL #18239

DESIGN PRESSURE RATING
VARIES, SEE TABLE 1
WATER TEST PRESSURE
15% OF (+) DP

IMPACT RATING
NOT RATED FOR IMPACT RESISTANCE

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, **NOT** INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE 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 TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
 - B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL 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 AND/OR INTEGRAL FINNS MAY BE TRIMMED IN-FIELD TO CREATE AN EQUAL-LEG FRAME.

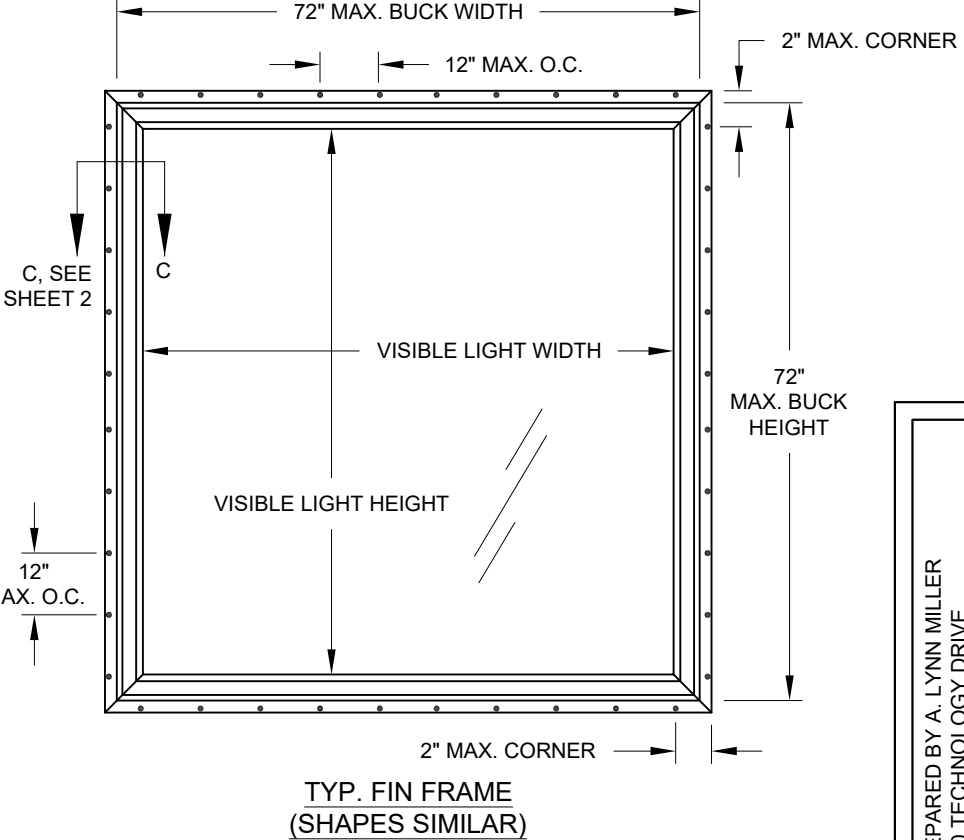
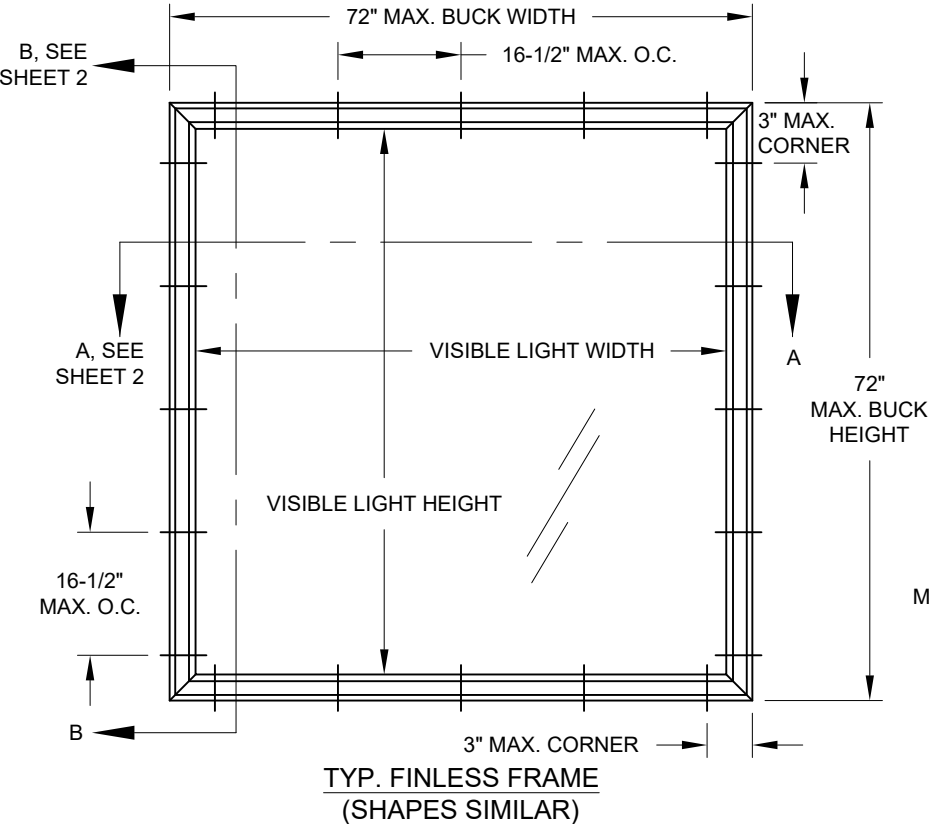
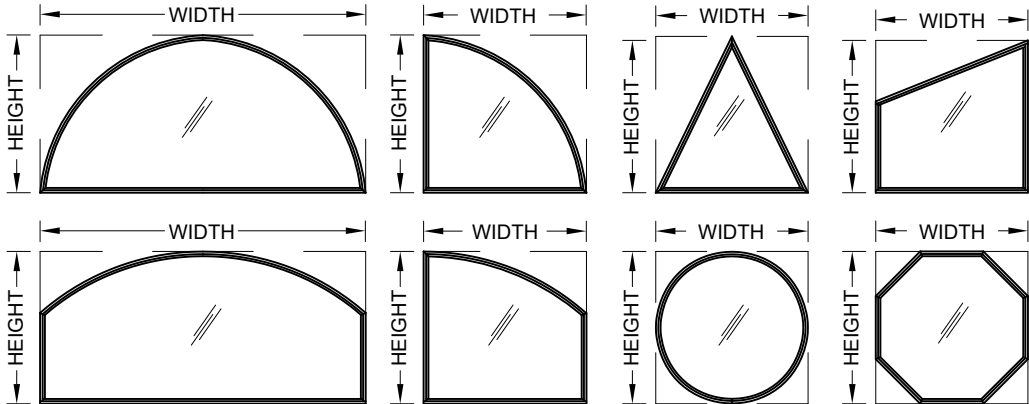


TABLE 1:

Frame Type	CPD #	Design Pressure	Product Rating
Finless	8919	+/- 55 psf	LC-PG55
Fin	8407	+/- 60 psf	LC-PG60

VISIBLE LIGHT SIZE = BUCK SIZE - 6-7/8"

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.



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.

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VINYL PICTURE WINDOW (NI)
08/10/26

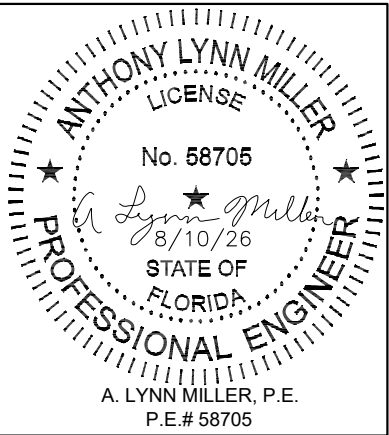
By Logan Yoder

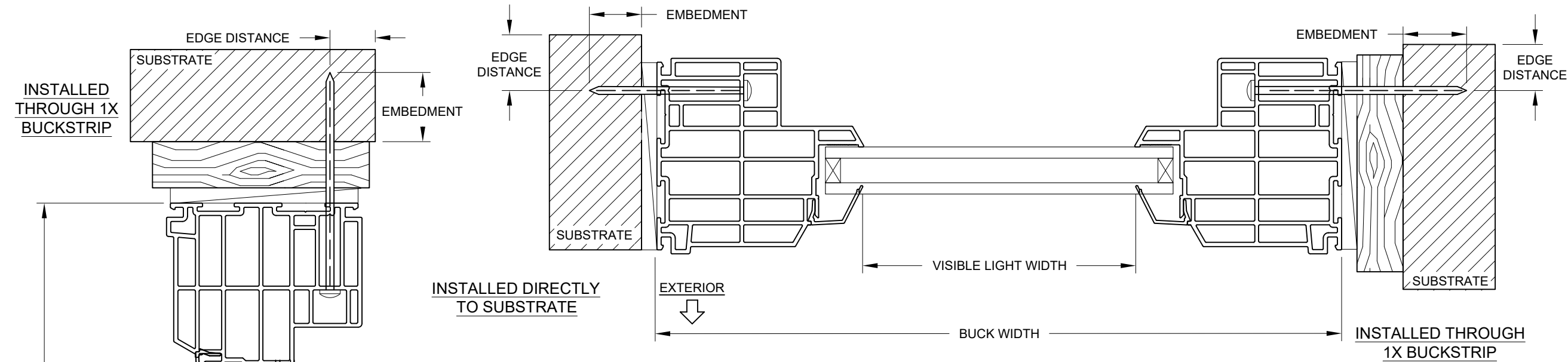
ELEVATION & GENERAL NOTES

9660/9770 PW

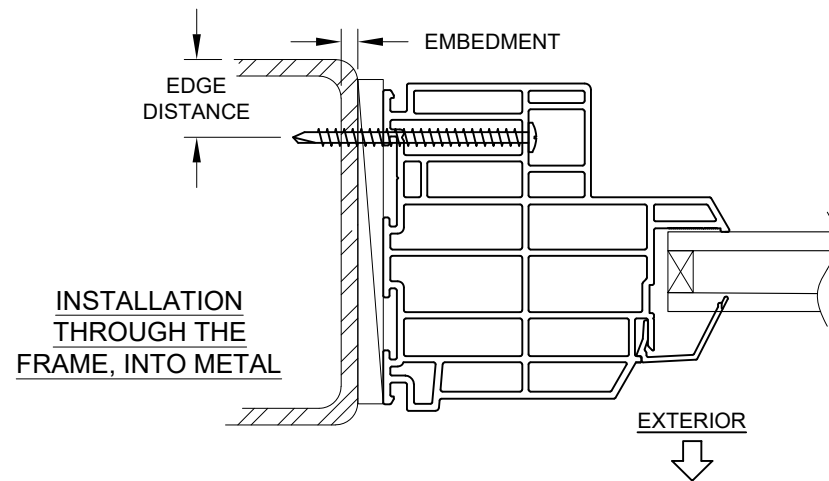
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96609770PW-NI



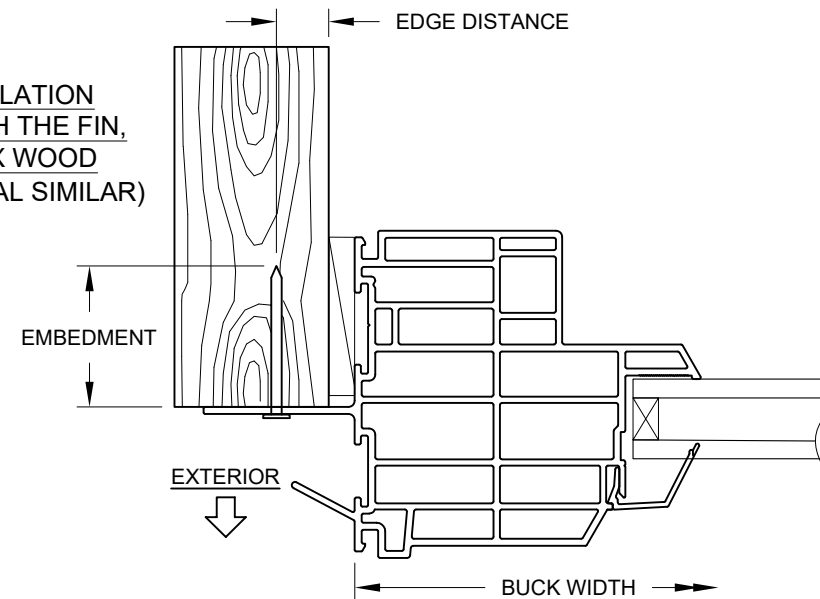


HORIZONTAL SECTION A-A

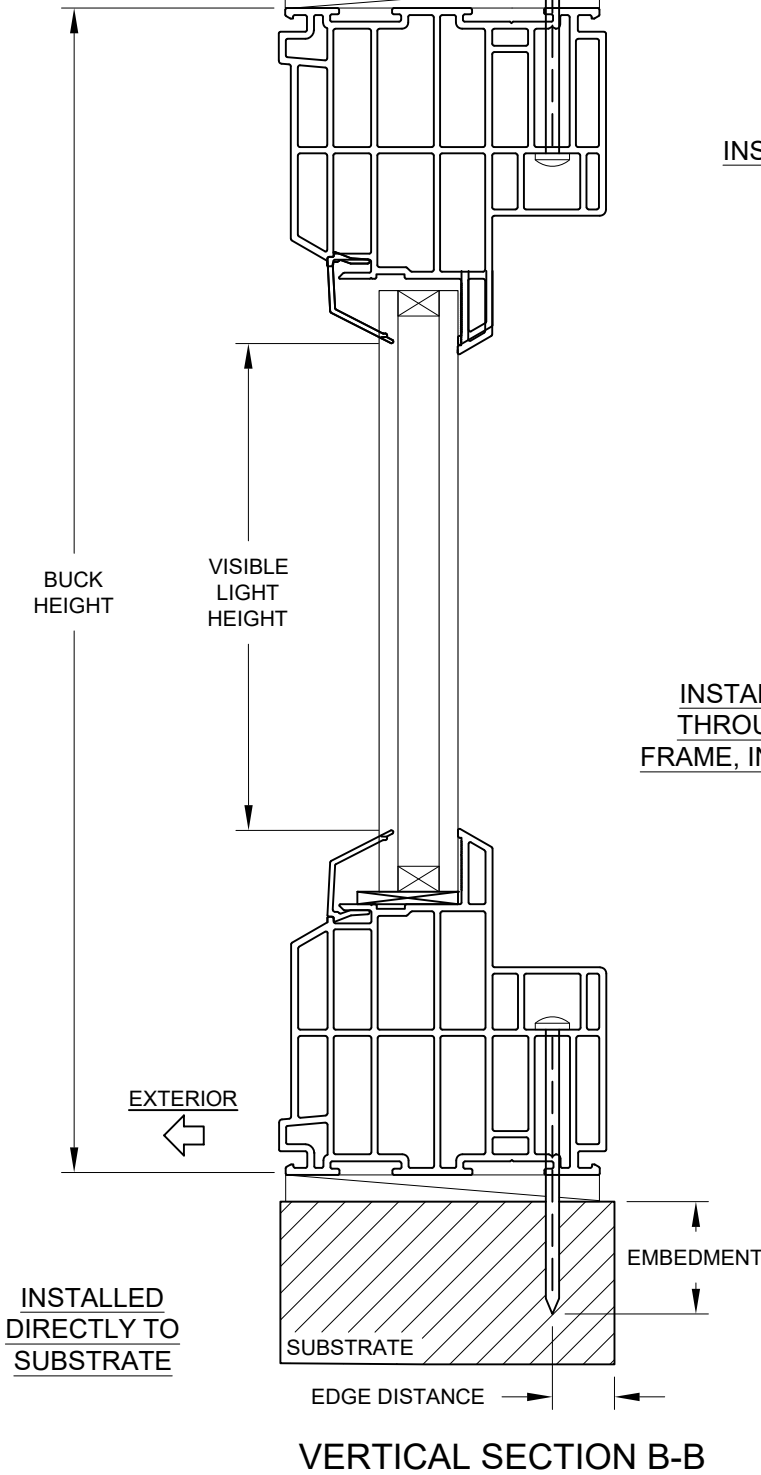


HORIZONTAL SECTION A-A

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



HORIZONTAL SECTION C-C



VERTICAL SECTION B-B

INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) SEE TABLES 2 OR 3 ON SHEET 3 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) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE AN EQUAL-LEG FRAME.

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MI[®] WINDOWS and DOORS		650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		VINYL PICTURE WINDOW (NI) Title		2 OF 3 DWG
SECTION VIEWS		9660/9770 PW Sheet		96609770PW-NI No.		2 OF 3 DWG

ANTHONY LYNN MILLER
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TABLE 2: THROUGH-FRAME ANCHORAGE OPTIONS

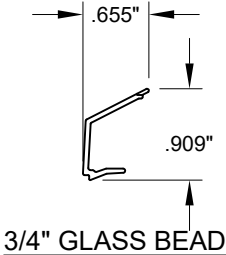
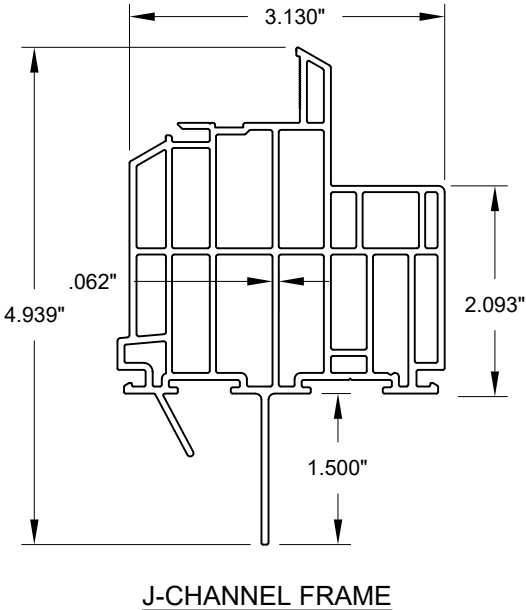
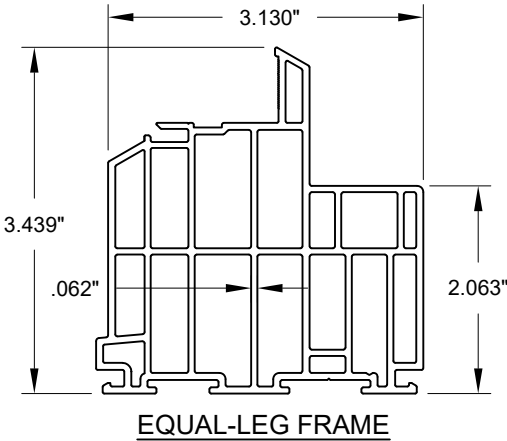
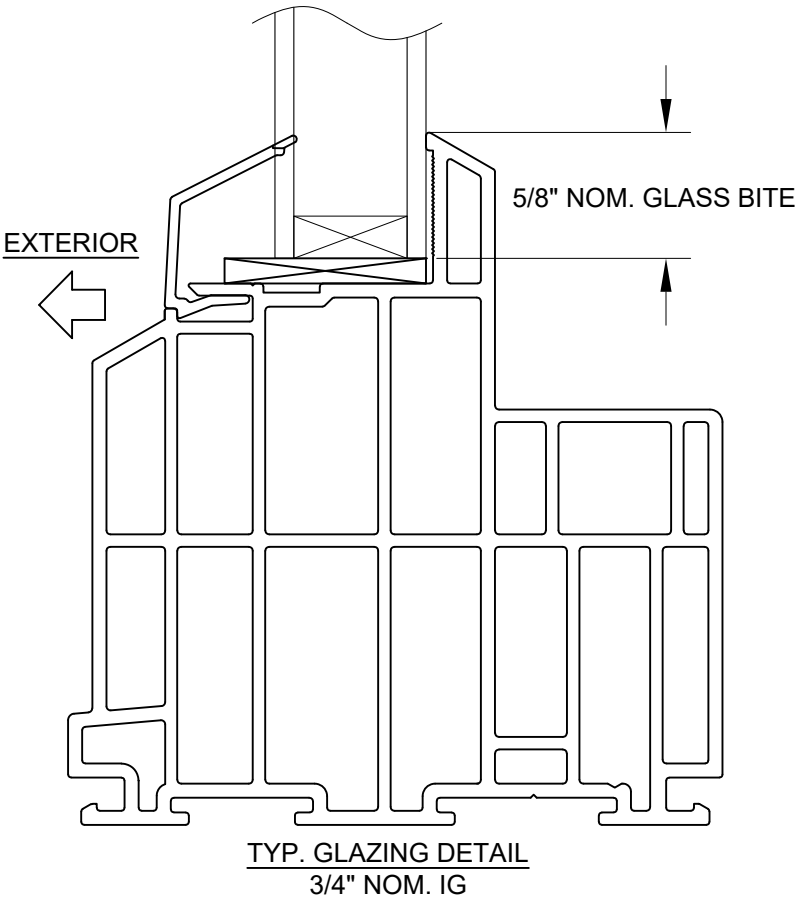
Anchor Type	Substrate	Min. Edge Distance	Minimum Embedment
#8 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG = 0.55)	7/16"	1"
	6063-T5 Aluminum	1/4"	0.0566" (16 ga.)
	A36 Steel	1/4"	0.0346" (20 ga.)
	Gr. 33 Steel Stud	1/4"	0.0346" (20 ga.)
3/16" Ultracon+	Concrete (min. 3ksi)	1"	1"
	Filled Block (ASTM C90)	1"	2-1/4"
	Hollow Block (ASTM C90)	1"	2-1/4"
	Southern Pine (SG = 0.55)	1/2"	1"
1/4" Aggre-Gator	Concrete (min. 2.22ksi)	1-1/2"	1"
	Filled Block (ASTM C90)	2"	1-1/4"
	Hollow Block (ASTM C90)	2"	1-1/4"
	Southern Pine (SG = 0.55)	1"	1"
1/4" CreteFlex	Concrete (min. 3.35ksi)	1"	1-3/4"
	Hollow Block (ASTM C90)	2-1/2"	1-1/4"
	Southern Pine (SG = 0.55)	1"	1-3/8"

- 1) MIN. OF 3 THREADS MUST EXTEND 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.

TABLE 3: INTEGRAL FIN AND J-CHANNEL ANCHORAGE OPTIONS

Anchor Type	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
#8 SMS Carbon Steel or 18-8, 316, 410 SS	Southern Pine (SG = 0.55)	7/16"	1"
	6063-T5 Aluminum	3/8"	0.093"
	A36 Steel	1/4"	0.0451" (18 ga.)
	Gr. 33 Steel Stud	1/4"	0.0451" (18 ga.)

- 1) MIN. OF 3 THREADS MUST EXTEND 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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By

LOGAN YODER

VINYL PICTURE WINDOW (NI)

ANCHORAGE, GLASS, EXT.

9660/9770 PW

3 OF 3

96609770PW-NI

Rev.

Date

Rev.

Series

Desc.

Title

Anthony Lynn Miller

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No. 58705

8/10/26

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PROFESSIONAL ENGINEER

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