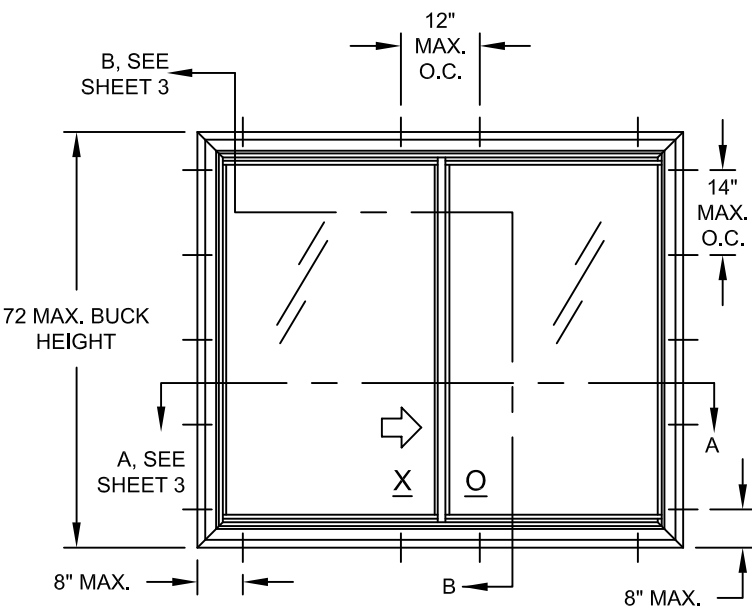
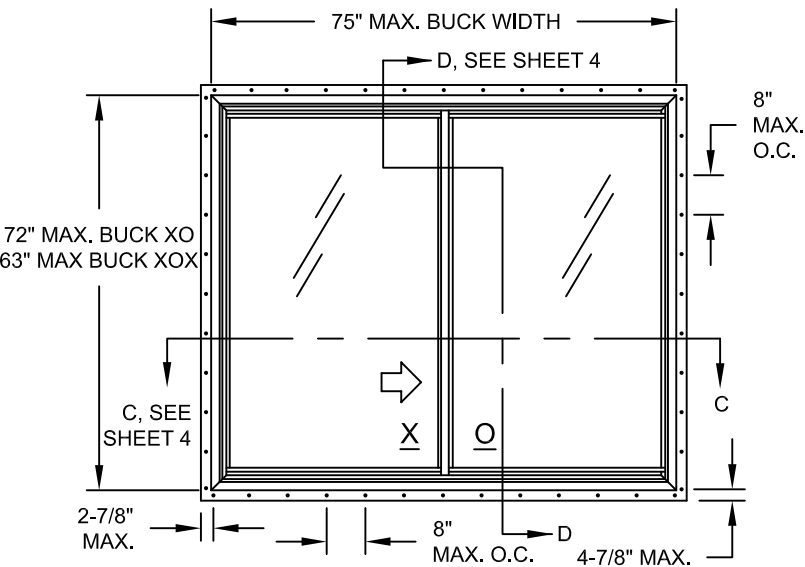
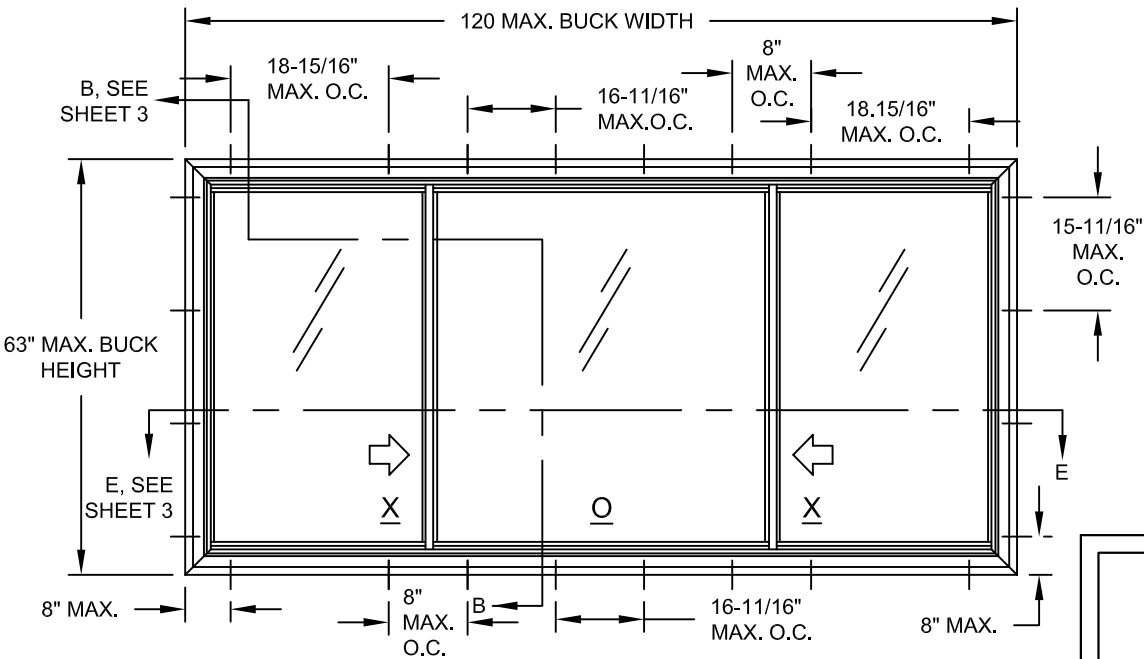




ELEVATION FOR TYP. EQUAL LEG/BOX
& FLANGE FRAME,
XO CONFIGURATION, OX SIMILAR



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME,
XO CONFIGURATION, OX & XOX SIMILAR



ELEVATION FOR TYP. EQUAL LEG/BOX
& FLANGE FRAME, XOX CONFIGURATION

MAX. SASH WIDTH = 30.36"
MAX. FIXED LITE (BUCK WIDTH - [2 X SASH WIDTH]) = 59.28"

**SERIES HR5410 NON-IMPACT RESISTANT, VINYL HORIZONTAL ROLLER
WITH U-LITE THIN TRIPLE GLAZING**

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

Window Buck Size		Configuration	Reinf. Type	Design Pressure		Product Rating
Width	Height			(+) psf	(-) psf	
75"	72"	XO/OX	Composite	35.0	35.0	LC-PG35
120"	63"	XOX (1/4-1/2-1/4)				
92"	63"	XOX (1/3-1/3-1/3)				

SEE SHEET 2 FOR GLASS TYPES

IMPACT RATING	DESIGN PRESSURE RATING
NOT RATED FOR IMPACT RESISTANCE	SEE TABLE 1

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1070 TECHNOLOGY DRIVE
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Custom Windows and Doors

3400 PRECISION DRIVE
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U-LITE VINYL HORIZONTAL ROLLER WINDOW. (NI)

07/31/24

A. MORLESIN

ELEVATION & GENERAL NOTES

1 OF 4

HR5410

HR5410FPA-U-LITE

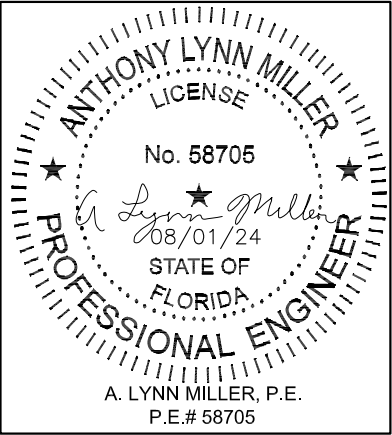


TABLE 2: ANCHORS INSTALLED THROUGH FRAME

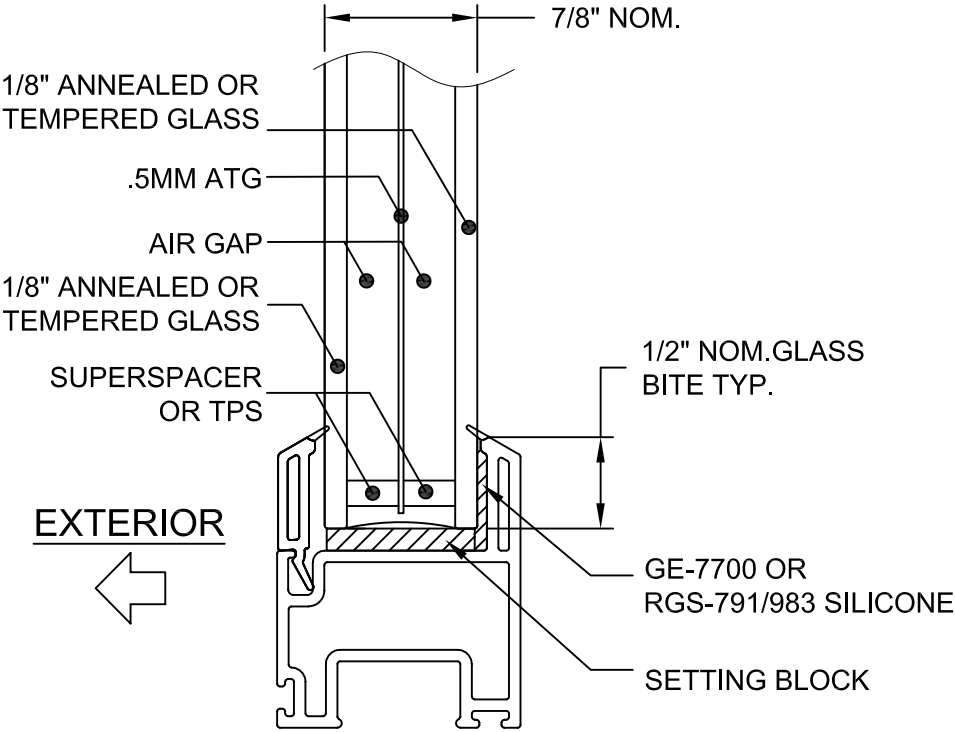
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	5/16"	0.0346" (20 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0346" (20 Ga.)
3/16" Ultracon+ (steel)	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Concrete (min. 3.00 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Ultracon+ (steel)	Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.00 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Crete-Flex (410 S.S.)	Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Aggre-Gator (18-8 S.S.)	Concrete (min. 2.22 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) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) ALL ANCHOR HEAD TYPES 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	Southern Pine (SG=0.55)	3/8"	2-7/16"
2-1/2" x .135" Ring-Shank Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
2-1/2" x .145" Roofing Nail	Southern Pine (SG=0.55)	3/8"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Panhead or Flathead	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Steel, A36	5/16"	0.0346" (20 Ga.)
	Steel Stud, A653 Gr. 33	5/16"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0346" (20 Ga.)

- 1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.



TYP. GLAZING DETAIL

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U-LITE VINYL HORIZONTAL ROLLER WINDOW. (NJ)

07/31/24

GLASS & ANCHOR OPTIONS

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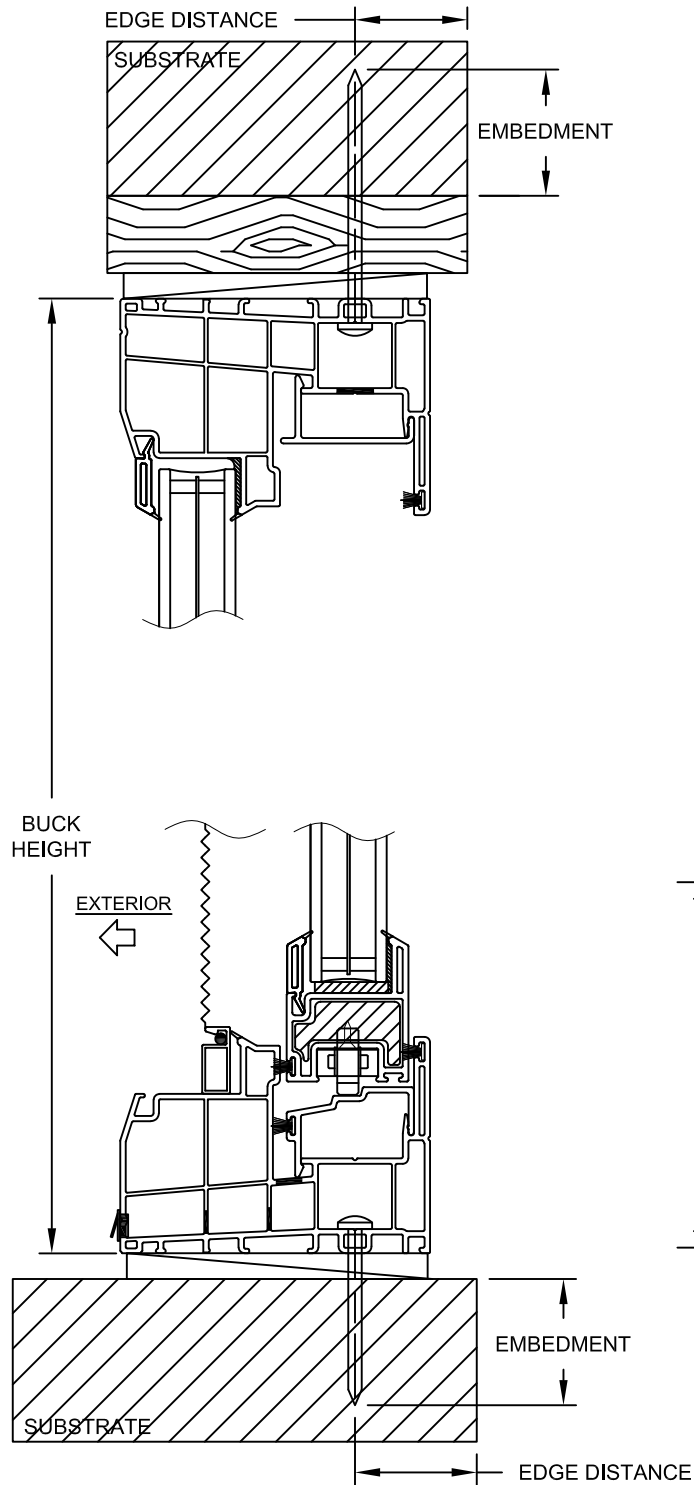
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2 OF 4

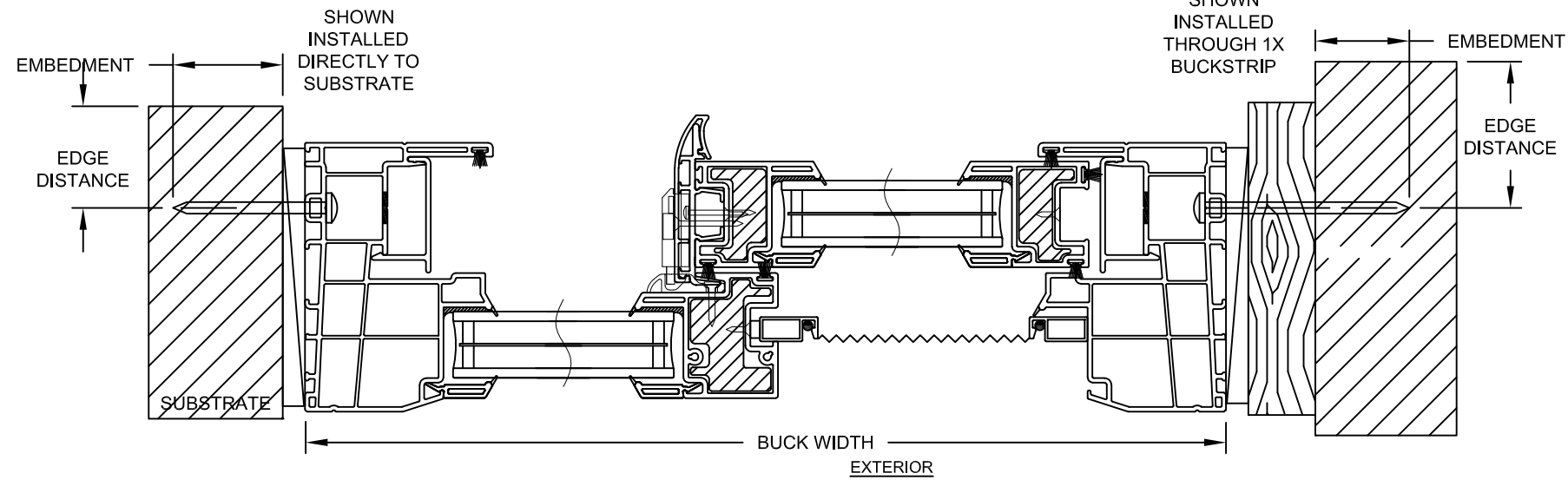
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ANTHONY LYNN MILLER
LICENSE
No. 58705
08/01/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

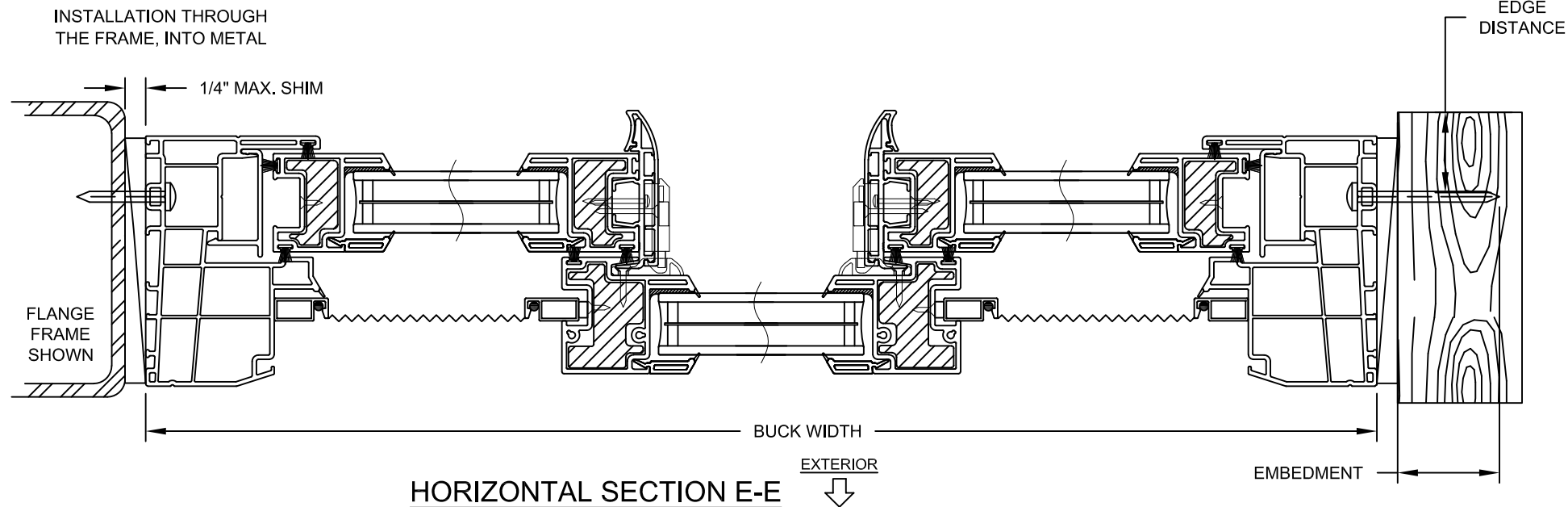
Rev. #	Date	Rev.



VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

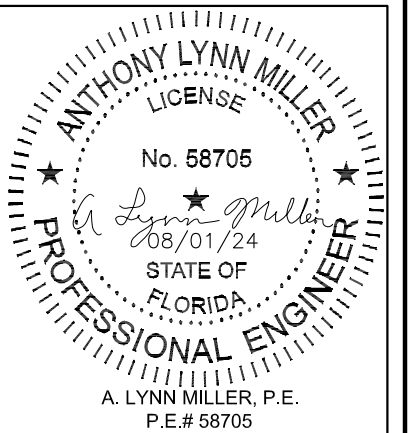


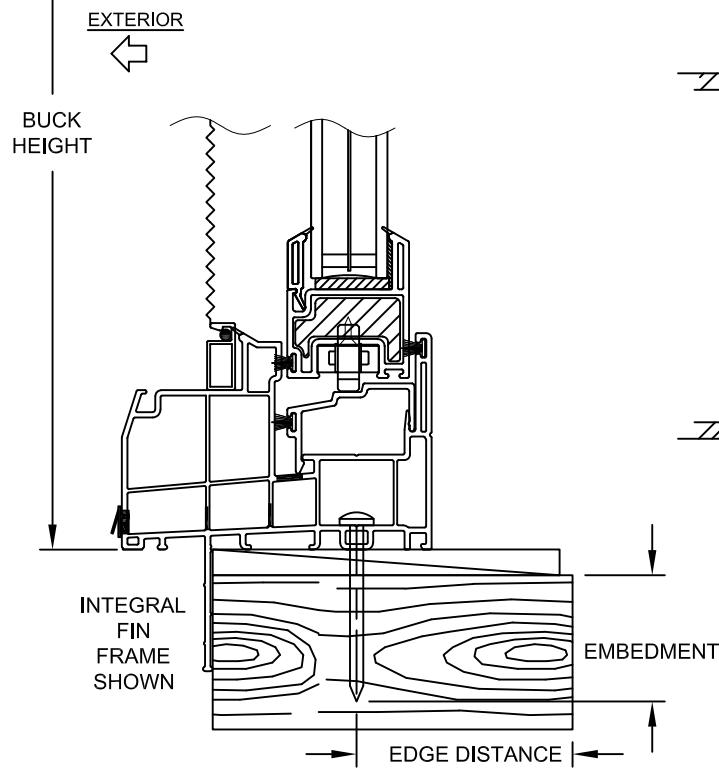
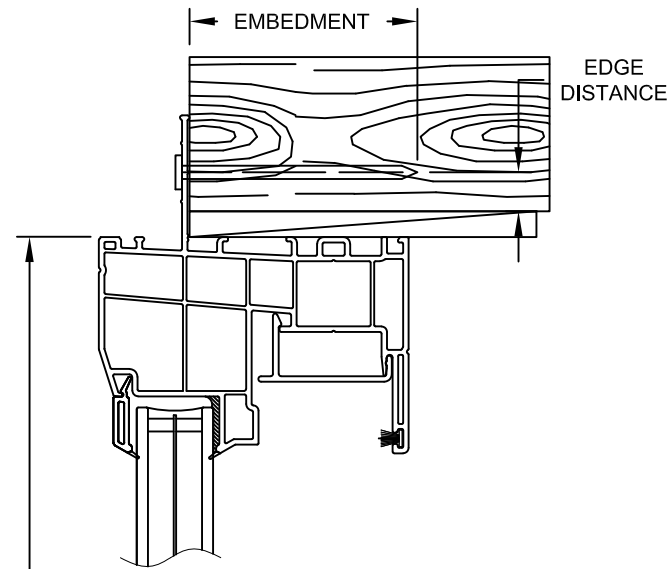
HORIZONTAL SECTION E-E

INSTALLATION NOTES:

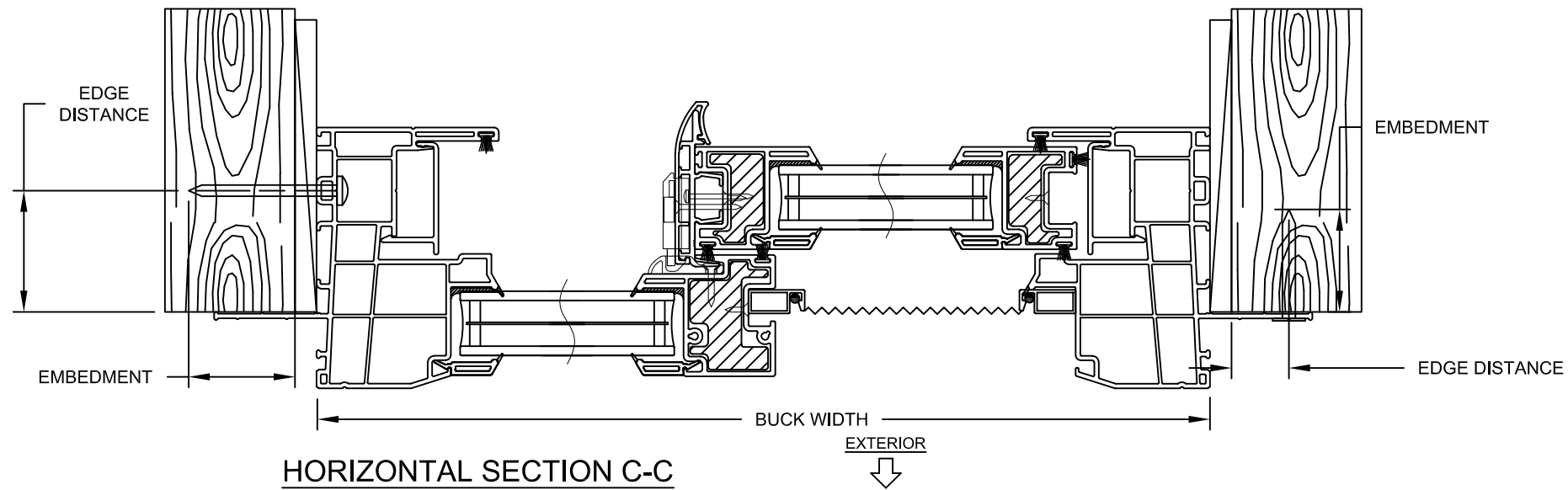
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

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FLANGE/EQUAL-LEG INSTALL.		3 OF 4		HR5410FPA-U-LITE	
HR5410		Sheet		Dwg No.	
Series		Desc.		Title	

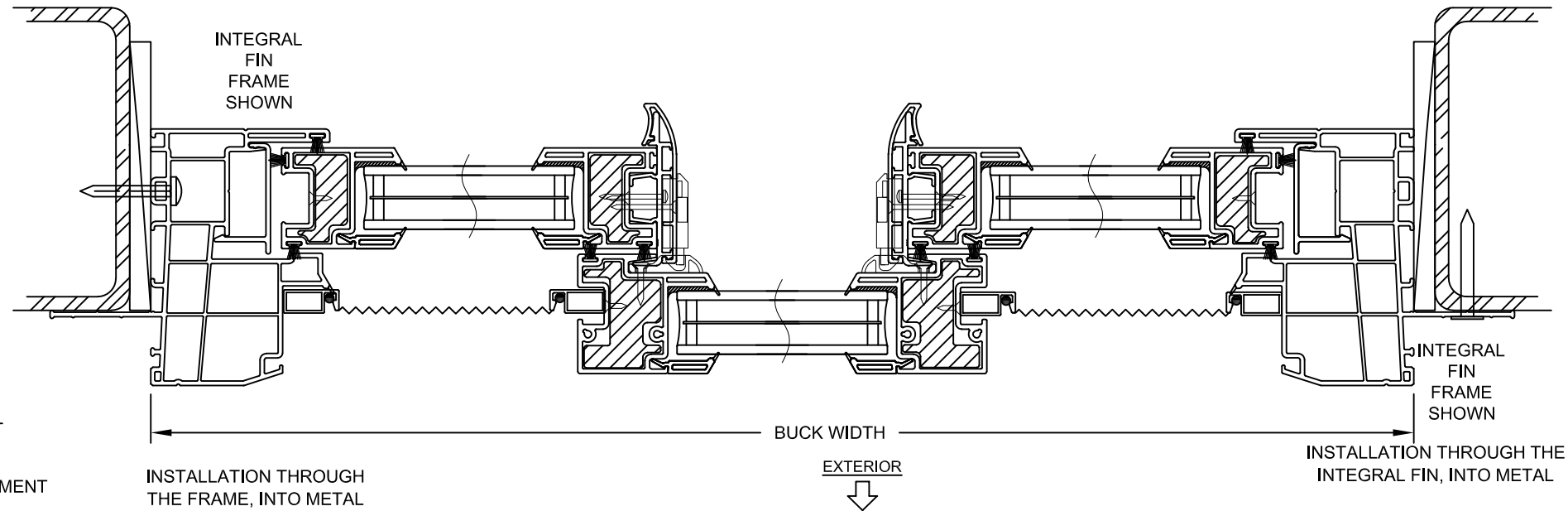




VERTICAL SECTION D-D



HORIZONTAL SECTION C-C



HORIZONTAL SECTION E-E

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) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.
- 5) MAX. SHIM SPACING OF 18" O.C. WHEN INSTALLING THROUGH THE INTEGRAL FIN.

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	INTEGRAL FIN INSTALLATION		4 OF 4		DWG No.	
	HR5410		Sheet		HR5410FPA-U-LITE	

