

SERIES SH4100A IMPACT RESISTANT SINGLE HUNG WINDOW

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 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. 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 FLANGE 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. MAXIMUM SHIM SPACING TO BE 18" WHEN INSTALLING THROUGH THE INTEGRAL FIN.
- 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.

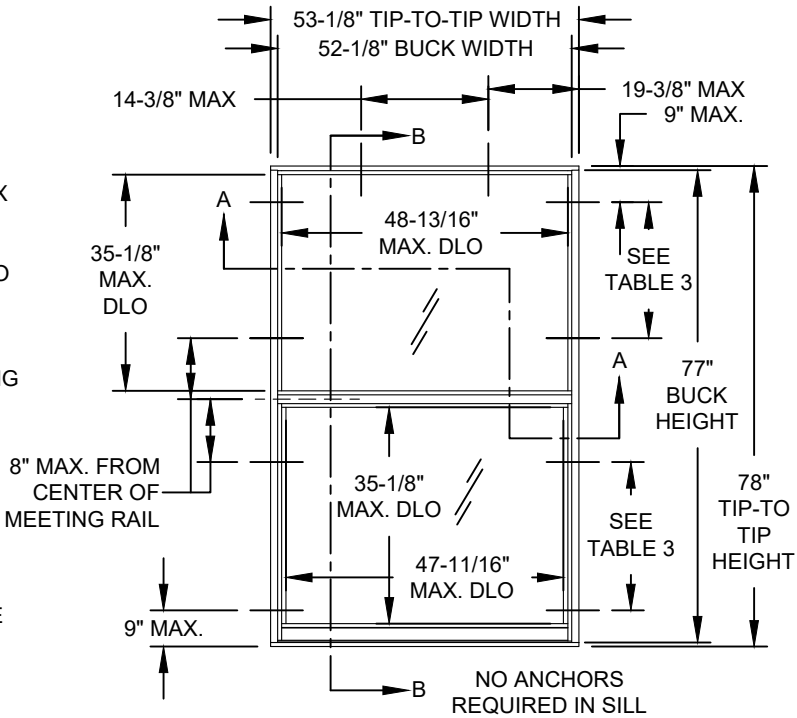
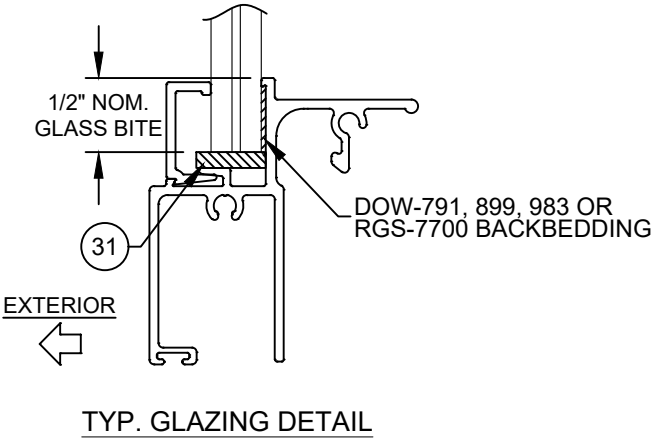
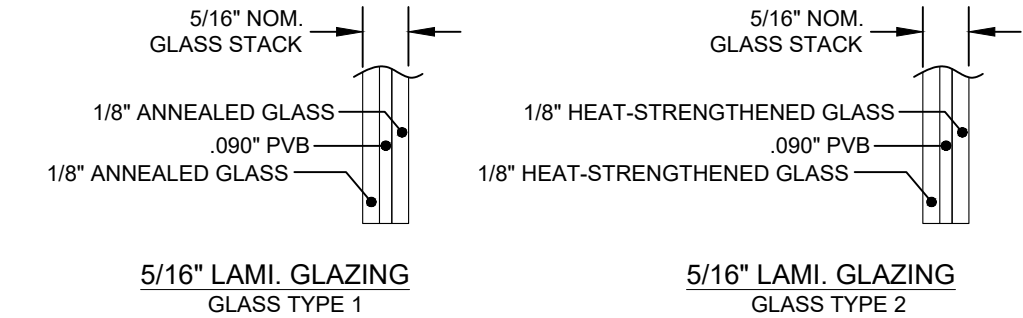
TABLE 1:

Laminated Glass Types	
1	1/8" Annealed, 0.090" PVB, 1/8" Annealed
2	1/8" Heat-strengthened, 0.090" PVB, 1/8" Heat-strengthened

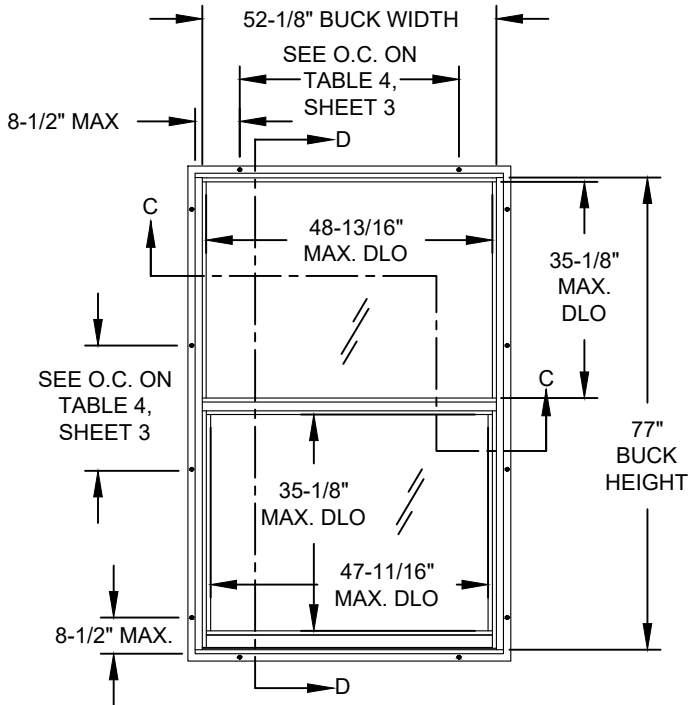
INTERLAYER MAY BE SAFLEX PVB OR TROSIFOL PVB

TABLE 2:

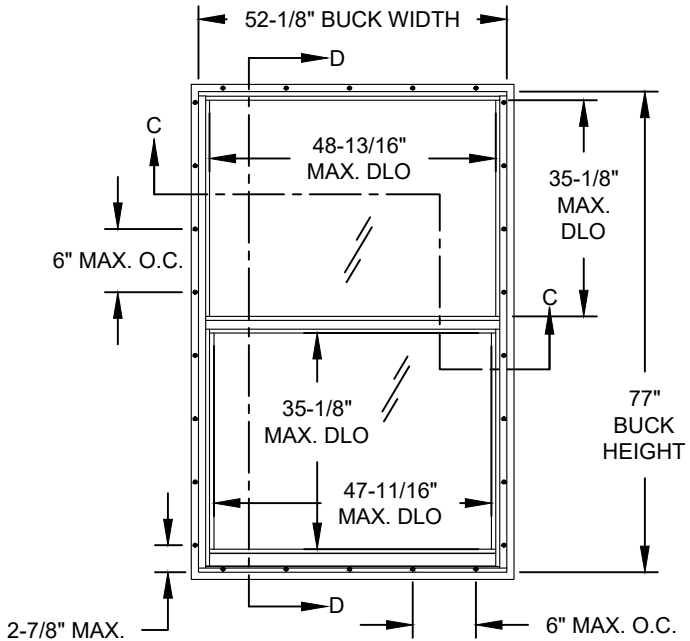
Window Width (Tip-to-Tip)	Head Anchor Hole Locations
Up to 38.75"	Qty. 1 @ center line
38.812" thru 45.125"	Qty. 2 @ 15.375 from each end
45.188 thru 53.125"	Qty. 2 @ 19.375 from each end



TYP. FLANGE FRAME
ANCHOR LOCATIONS @ MAX. SIZE

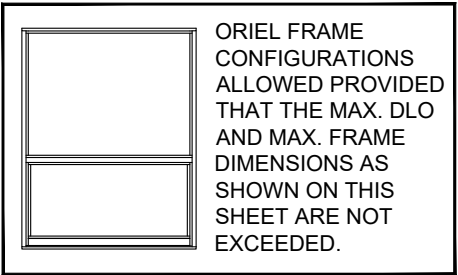


TYP. INTEGRAL FIN FRAME
ANCHOR LOCATIONS @ MAX. SIZE
(INSTALLED WITH SCREWS)

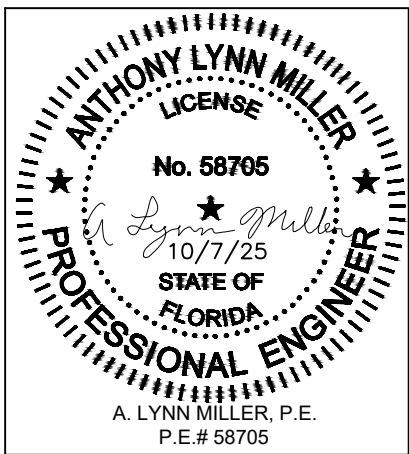


TYP. INTEGRAL FIN FRAME
ANCHOR LOCATIONS @ MAX. SIZE
(INSTALLED WITH NAILS)

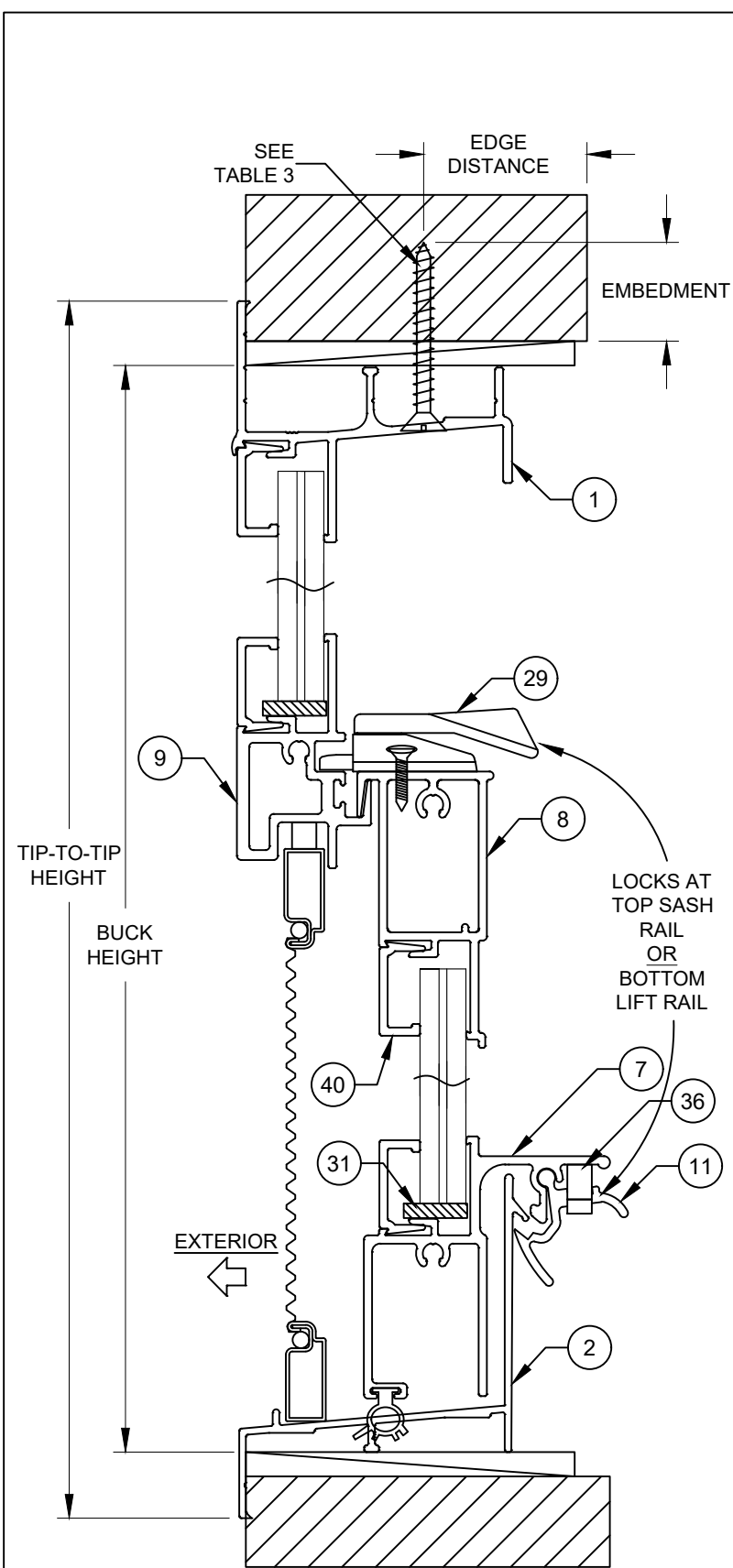
DESIGN PRESSURE RATING	IMPACT RATING
+55/-65 PSF	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE



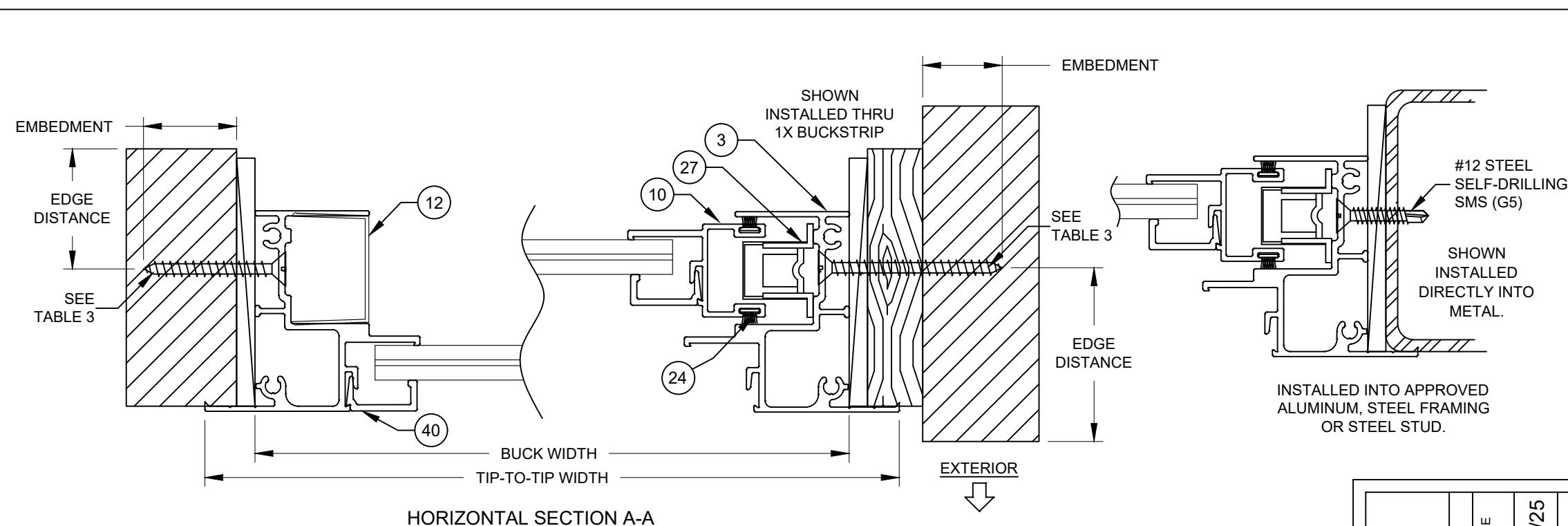
 Custom Windows and Doors		3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2025 PGT, LLC, LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600			
Title		SH WINDOW INSTALLATION (LM)				Date		08/19/25	
Series		SH4100A		1 OF 4		DWG No.		SH4100FLPA	
Desc.		ELEVATION & GENERAL NOTES				Drawn By		COLTON KEMP	



Rev.	10/7/25	Date	ADDED TABLE 2 - CK
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VERTICAL SECTION B-B



HORIZONTAL SECTION A-A

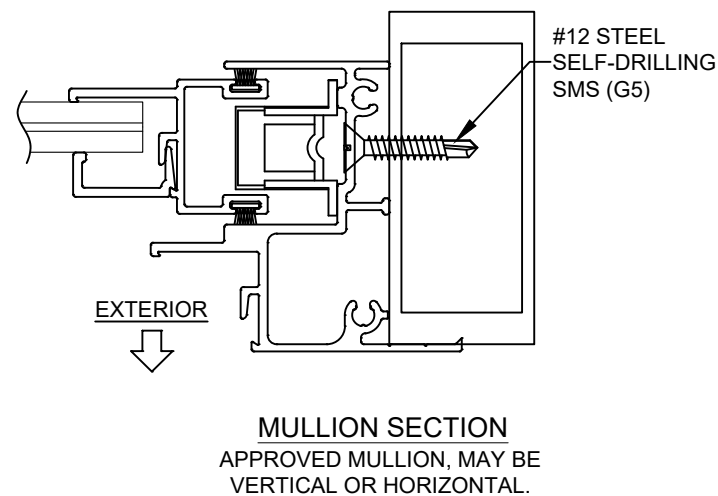
TABLE 3: THROUGH-FRAME ANCHORS

Anchor	Substrate	Minimum Edge Distance	Minimum Embedment	Max. O.C. (Above / Below Meeting Rail)
#12 Steel SMS Screw (G5)	Southern Pine (SG = .55)	9/16"	1-3/8"	21" / 23"
	Aluminum, 6063-T5 min.	3/8"	0.078"	21" / 23"
	Steel Stud, Gr. 33 min.	3/8"	0.045" (20 Ga)	21" / 23"
	A36 Steel	3/8"	0.050"	21" / 23"
1/4" Steel Ultracon+	Southern Pine (SG = .55)	1"	1-3/8"	21" / 23"
	Concrete (min. 3.0 ksi)	1-7/8"	1-3/8"	21" / 23"
	Grouted CMU, (ASTM C-90)	2-1/2"	1-3/4"	21" / 23"
	UngROUTED CMU, (ASTM C-90)	1"	1-1/4"	12-1/4" / 12-1/4"
1/4" 410 SS CreteFlex	Southern Pine (SG = .55)	1"	1-3/8"	21" / 23"
	Concrete (min. 3.35 ksi)	1"	1-3/4"	21" / 23"
	Concrete (min. 3.35 ksi)	2-1/2"	1"	21" / 23"
	UngROUTED CMU, (ASTM C-90)	1-3/4"	1-1/4"	21" / 23"

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
3) ALL ANCHOR HEAD TYPES ARE ALLOWED.

NOTES

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 3. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
- 2) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 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.
- 3) SEE SHEET 1 & TABLE 3 FOR SPACING REQUIREMENTS.
- 4) MAX. SHIM THICKNESS TO BE 1/4".
- 5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.



PREPARED BY A. LYNN MILLER
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SH WINDOW INSTALLATION (LM)
ANCHOR INFORMATION,
CROSS SECTION

Date
08/19/25

By
COLTON KEMP

No.
2 OF 4

Sheet
SH4100A

Series
SH4100FLPA

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/7/25
STATE OF FLORIDA
PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.
P.E.# 58705

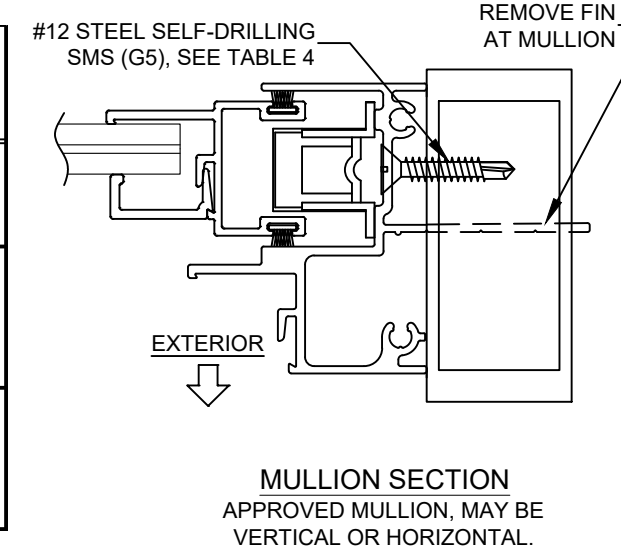
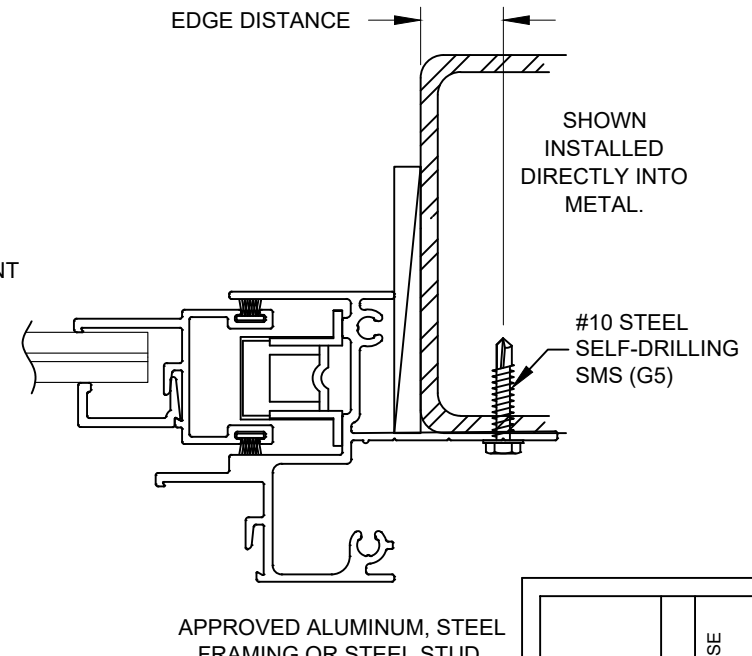
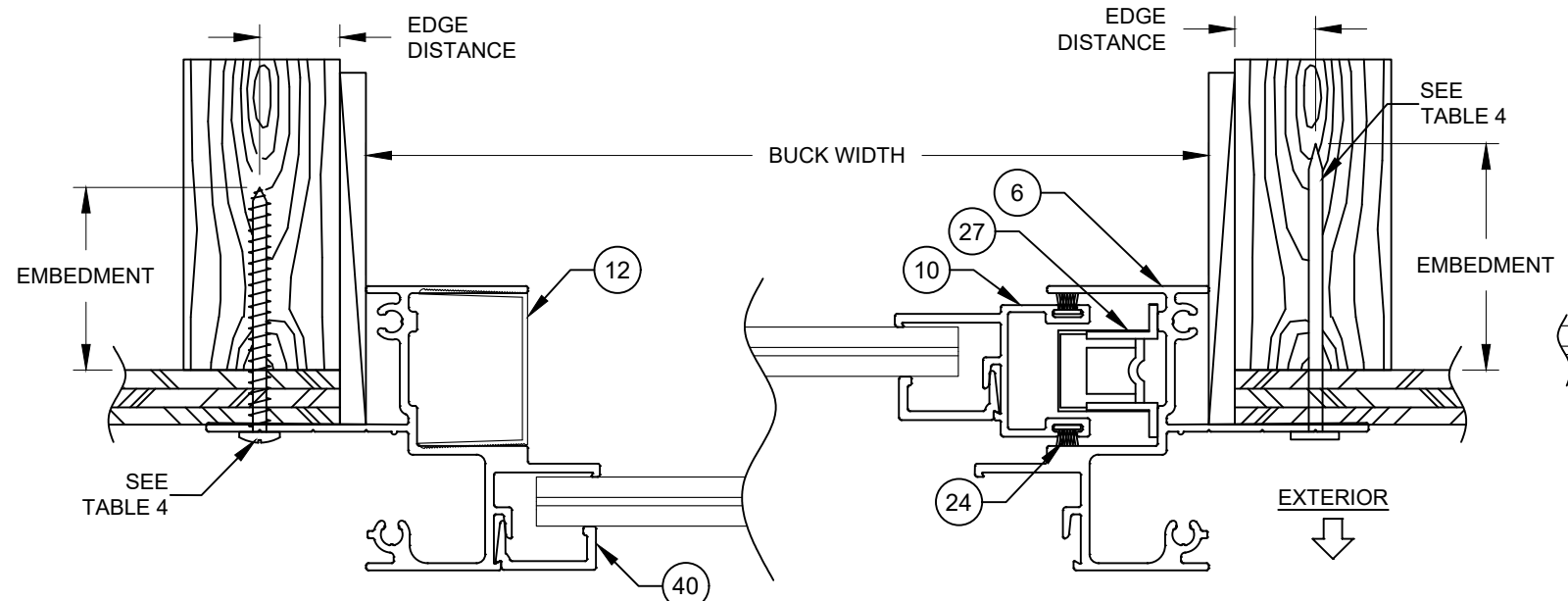
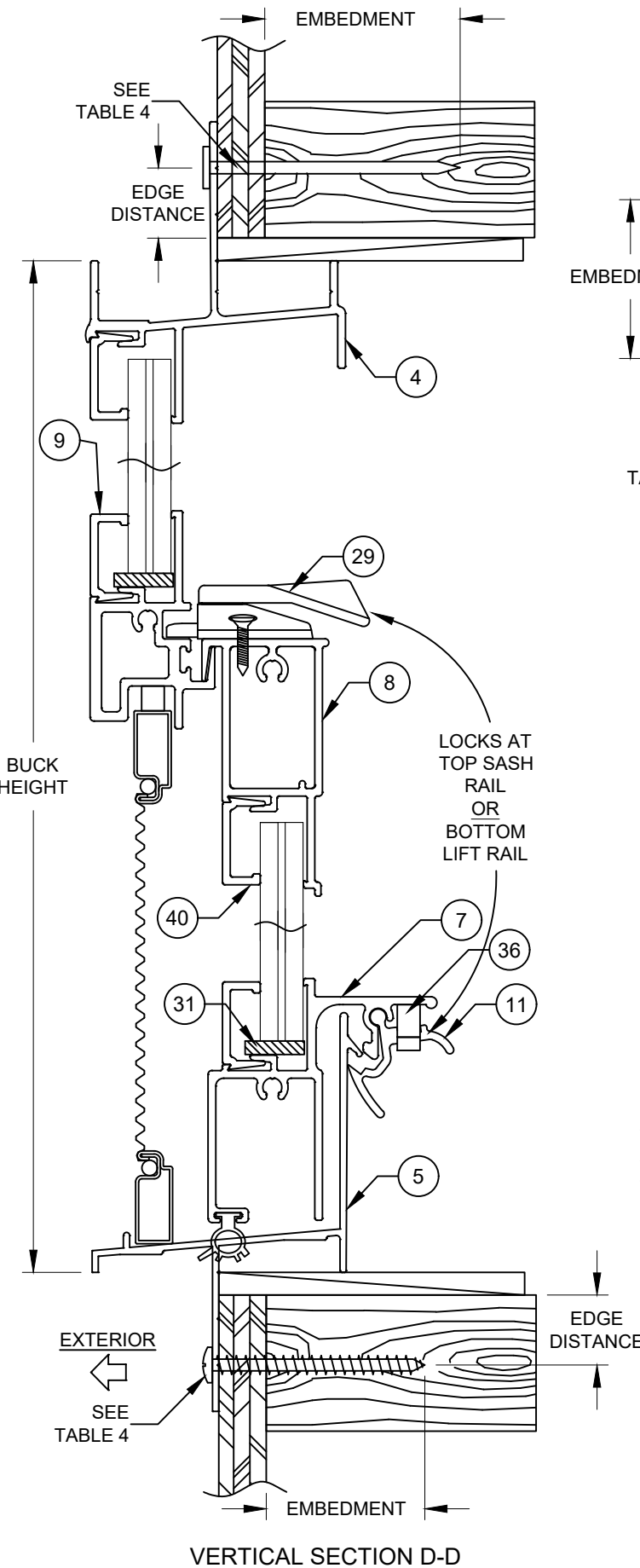


TABLE 4: THROUGH-FIN ANCHORS

Anchor	Substrate	Min. Embedment or Metal Thickness	Min. Edge Distance	Max. On-center Distance, O.C.	Max. Corner Distance
2-1/2" x .113" Box Nail	Southern Pine (SG = .55)	-	3/8"	6" @ Head/Sill 6" @ Jambs	2-7/8"
2-1/2" x .131" Common Nail	Southern Pine (SG = .55)	-	3/8"		
2-1/2" x .145" Roofing Nail	Southern Pine (SG = .55)	-	3/8"		
#10 Steel SMS Screw (G5)	Southern Pine (SG = .55)	1-3/8"	1/2"	17-9/16" @ Head/Sill 15" @ Jambs	8-1/2"
	Aluminum, 6063-T5 min	0.100"	3/8"		
	Steel Stud, Gr. 33 min.	0.057"	3/8"		
#12 Steel SMS Screw (G5)	A36 Steel	0.050"	3/8"	17-9/16" @ Head/Sill 20" @ Jambs	8-1/2"
	Southern Pine (SG = .55)	1-3/8"	9/16"		
	Aluminum, 6063-T5 min.	0.125"	7/16"		
	Steel Stud, Gr. 33 min.	0.071"	7/16"		
#12 Steel SMS Screw (G5)	A36 Steel	0.050"	7/16"		

- 1) ANCHOR MUST EXTEND A MINIMUM OF 3 THREADS BEYOND ANY METAL SUBSTRATE.
2) ALL HEAD TYPES ARE ACCEPTABLE FOR #10 SCREWS.
3) USE ONLY PAN OR HEX HEAD TYPES FOR #12 SCREWS WHEN INSTALLING THROUGH THE FIN.

NOTES

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS LISTED IN TABLE 4. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE WINDOW.
2) 2X WOOD FRAMING OR BUCK, 1-1/2" THICK OR GREATER.
3) SEE SHEET 1 & TABLE 4 FOR SPACING REQUIREMENTS.
4) MAX. SHIM THICKNESS TO BE 1/4".
5) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.

PREPARED BY A. LYNN MILLER
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SH WINDOW INSTALLATION (LM)
ANCHOR INFORMATION,
CROSS SECTION

Date
08/19/25

By
COLTON KEMP

No.
3 OF 4

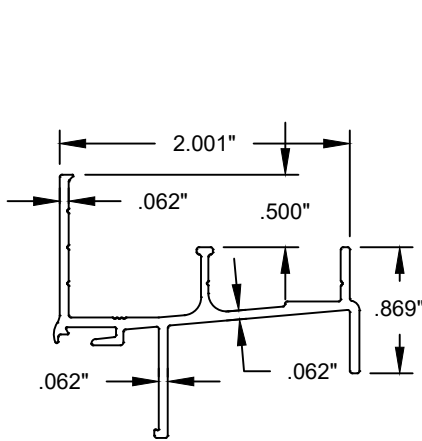
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SH4100A

Rev.
SH4100FLPA

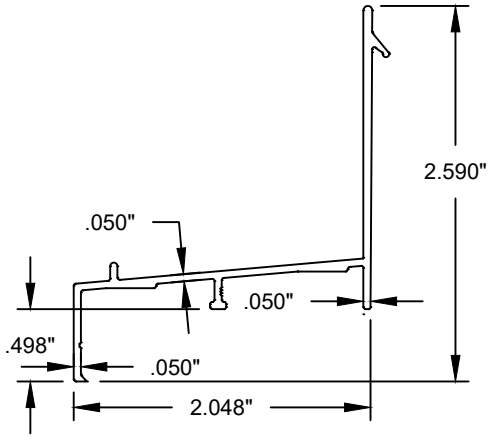
ANTHONY LYNN MILLER
LICENSE
No. 58705
10/7/25
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 5:

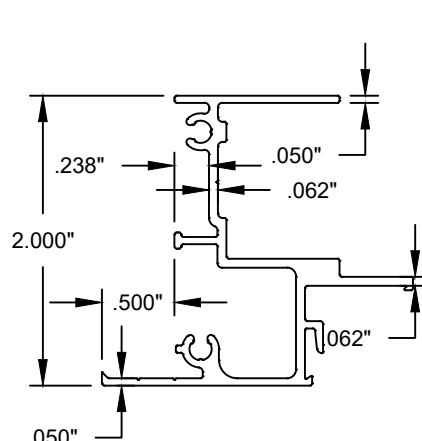
Item #	Description
1	Flange Frame Head
2	Flange Frame Sill
3	Flange Frame Jamb
4	Integral Fin Frame Head
5	Integral Fin Frame Sill
6	Integral Fin Frame Jamb
7	Sash Bottom Rail
8	Sash Top Rail
9	HD Fixed Meeting Rail
10	Sash Side Rail
11	Sash Bottom Lock
12	Vinyl Sash Stop
20	Vinyl Bulb, Flex PVC 70
21	Frame Corner Gasket, Polyethelyne, opt.
22	Sash Corner Gasket, Polyethelyne, opt
23	Fixed Meeting Rail Plug, Rigid PVC
24	Wstp., 187" X .230" Fin Seal
25	Frame/Sash Corner Sealant, opt.
26	Balance Take-out Clip
27	Balance
28	Sash Cam, Nylon
29	Sweep Latch, Zinc
30	#6 X 5/8" Ph. Fl. SMS Latch Screws
31	Setting Block 1/8" x 1/2" x 1", EPDM
36	Sash Bottom Lock Spring
38	Glazing Sealant
40	Vinyl Glass Bead



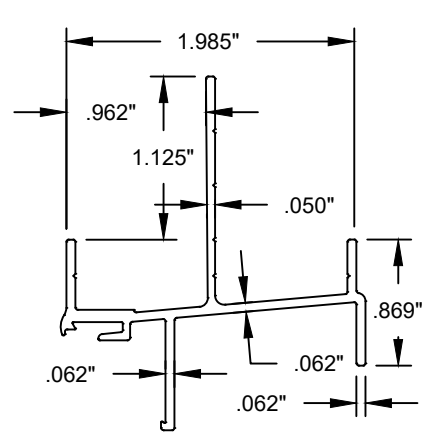
1 FLANGE FRAME HEAD
6063-T6 ALUMINUM



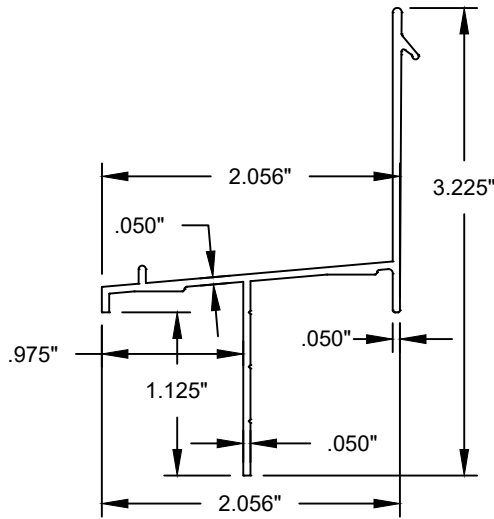
2 FLANGE FRAME SILL
6063-T6 ALUMINUM



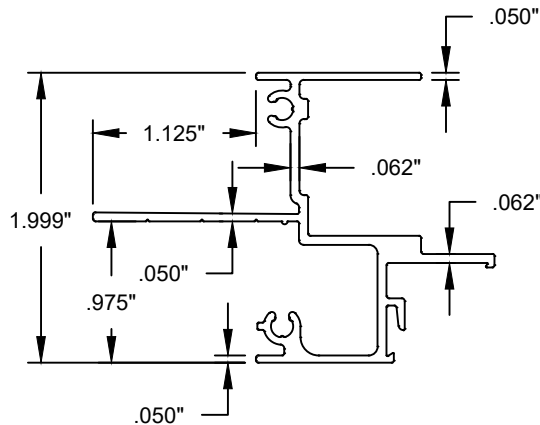
3 FLANGE FRAME JAMB
6063-T6 ALUMINUM



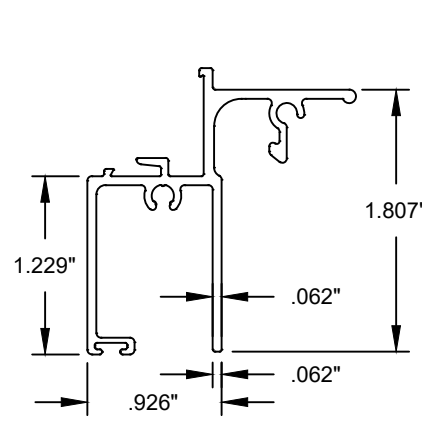
4 INTEGRAL FIN FRAME HEAD
6063-T5 ALUMINUM



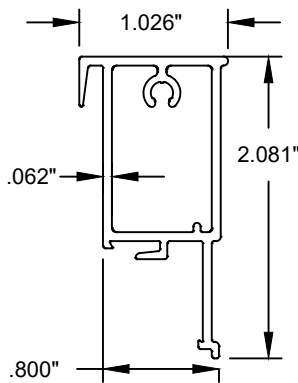
5 INTEGRAL FIN FRAME SILL
6063-T6 ALUMINUM



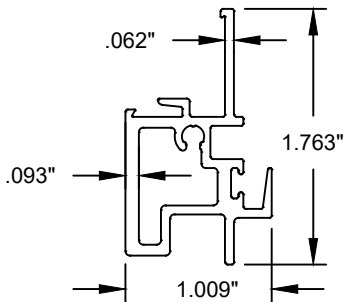
6 INTEGRAL FIN FRAME JAMB
6063-T6 ALUMINUM



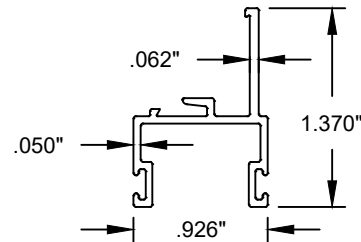
7 SASH BOTTOM RAIL
6063-T6 ALUMINUM



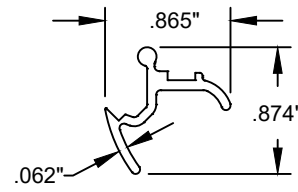
8 SASH TOP RAIL
6063-T6 ALUMINUM



9 HD FIXED MEETING RAIL
6063-T6 ALUMINUM



10 SASH SIDE RAIL
6063-T6 ALUMINUM



11 SASH BOTTOM LOCK RAIL
6063-T6 ALUMINUM

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	SH WINDOW INSTALLATION (LM)		By	COLTON KEMP
	GLAZING INFORMATION & DESIGN PRESSURES		No.	4 OF 4
Series		Sheet		SH4100A
Desc.		DWG		SH4100FLPA
Title		Date		08/19/25

