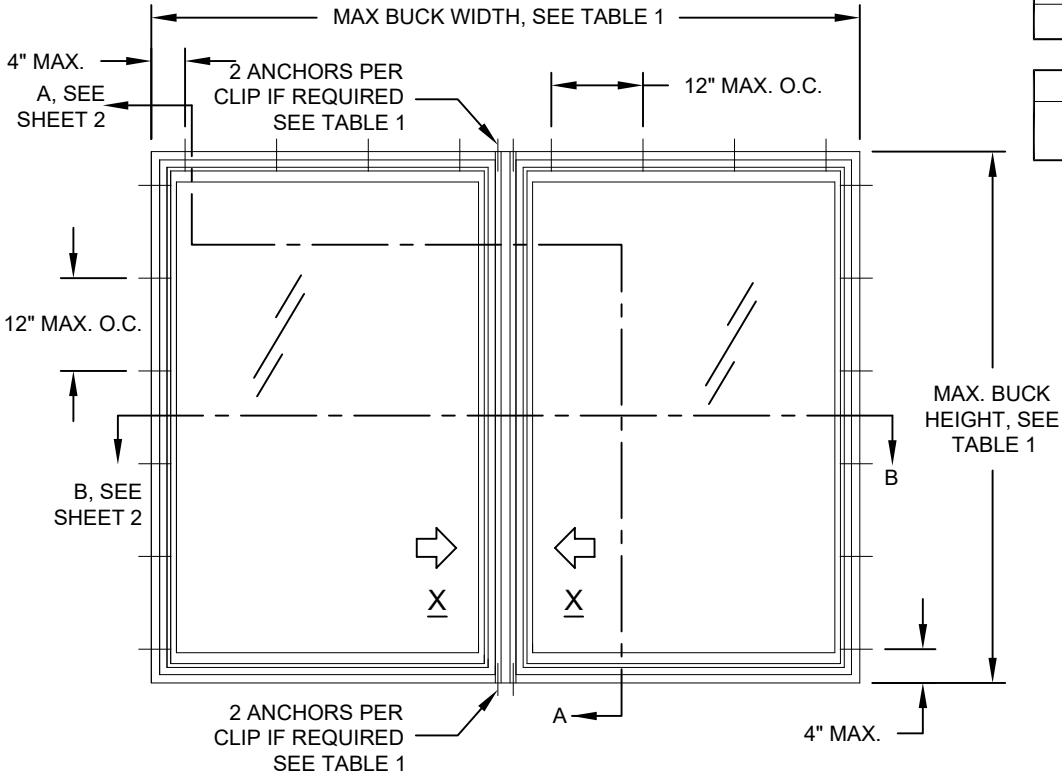


SERIES 1685 HORIZONTAL SLIDER WINDOW
NON-IMPACT RESISTANT

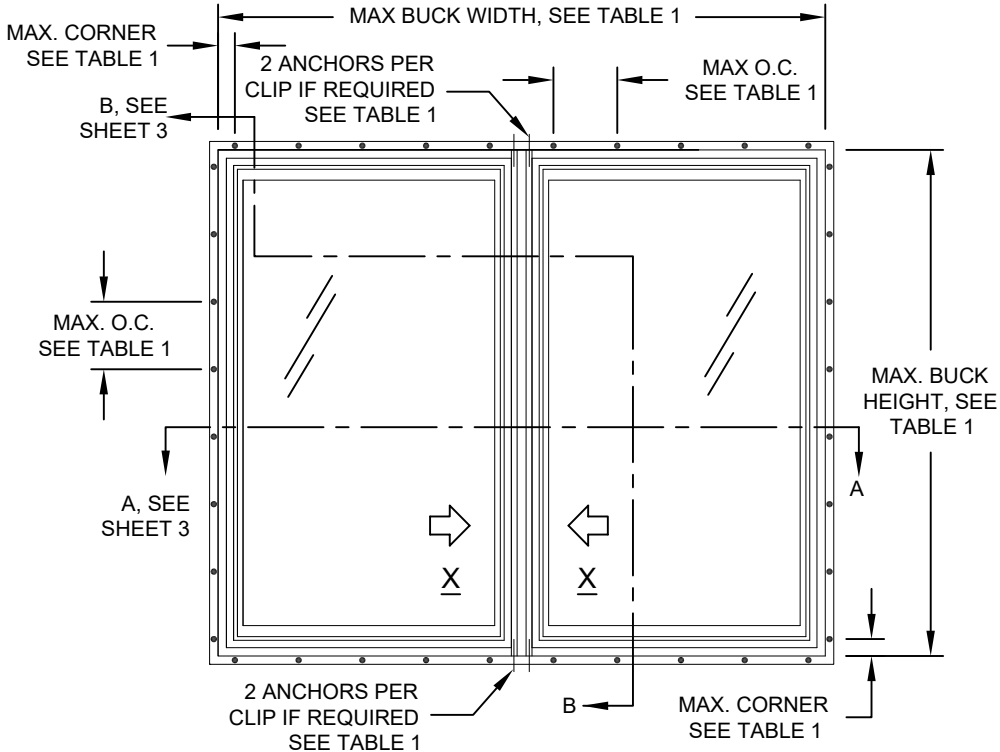
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE 2. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X 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 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 FINS MAY BE TRIMMED IN-FIELD TO CREATE A FINLESS FRAME.
- 8) UNITS MUST BE GLAZED PER ASTM E1300.

TABLE 1:

Window Buck Size		Frame Type	Design Pressure		Product Rating	CPD No.	Anchor Clip	Through Fin Anchorage Max. Spacing
Width	Height		(+) psf	(-) psf				
72"	60"	Fin	35.0	35.0	LC-PG35	14892	No	8" O.C., 2" Corner
84"	63"	Finless	35.0	35.0	LC-PG35	14731	No	N/A
63"	44"	Fin	35.0	50.0	LC-PG35	17746	No	8" O.C., 4" Corner
63"	44"	Finless	35.0	50.0	LC-PG35	17747	Yes	N/A
84"	53"	Fin & Finless	30.0	30.0	R-PG30	22296	Yes, Fin	7" O.C., 2" Corner



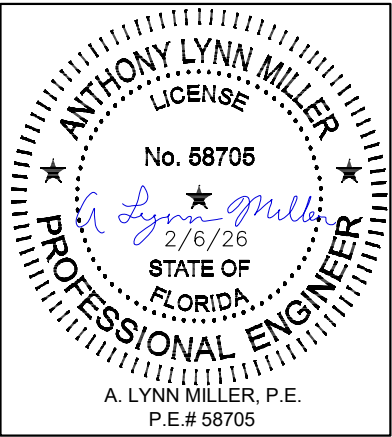
TYP. FINLESS FRAME,
XX CONFIGURATION

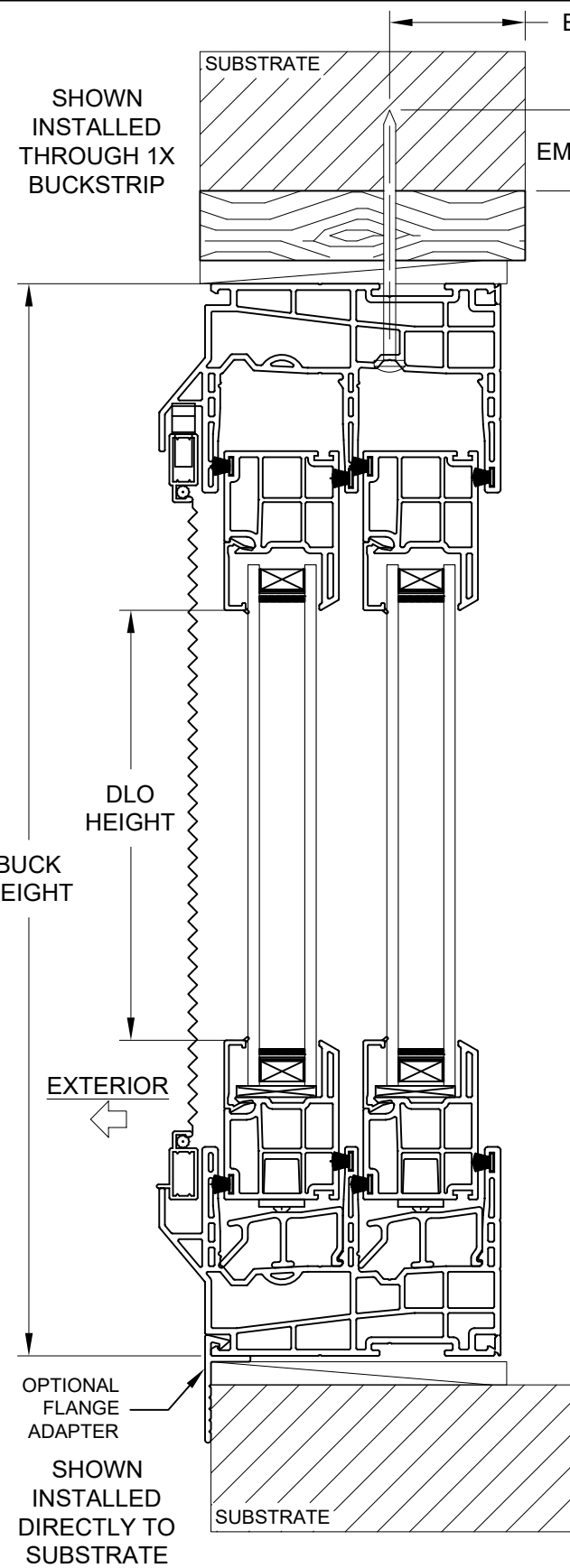


TYP. FIN OR J-CHANNEL FRAME,
XX CONFIGURATION

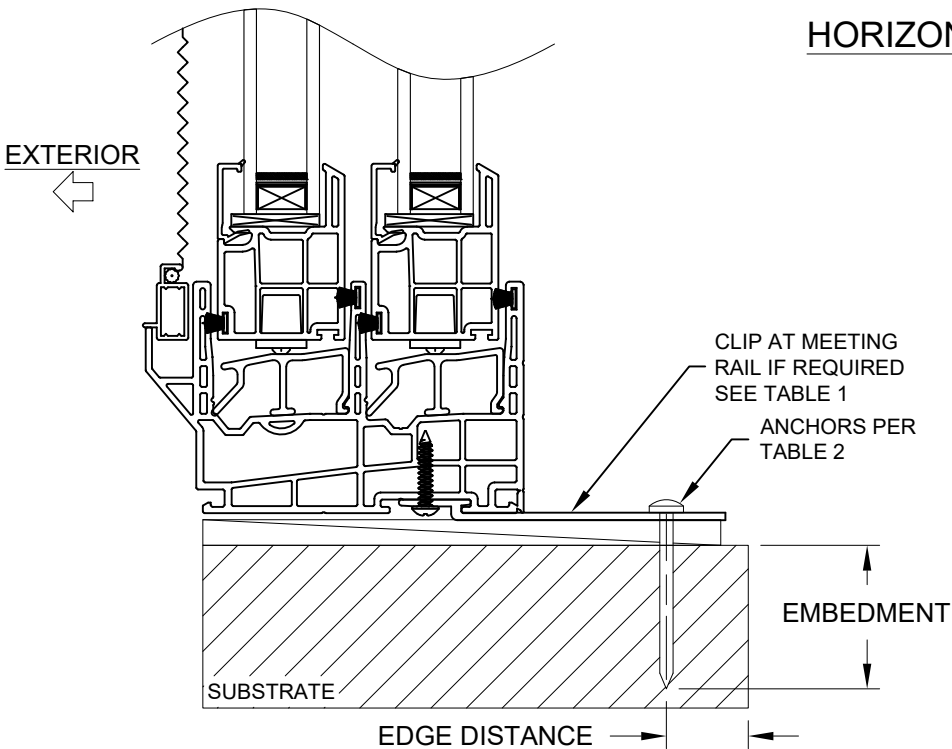
DESIGN PRESSURE RATING SEE TABLE 1
IMPACT RATING NOT RATED FOR IMPACT RESISTANCE

		650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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VINYL HORIZONTAL SLIDER WINDOW (LM)		Date		02/06/26	
XO ELEVATION & GENERAL NOTES		By		COLTON KEMPf	
1685 HS		1 OF 4		1685 HS FPA	
Sheet		DWG No.			
Series		Desc.			



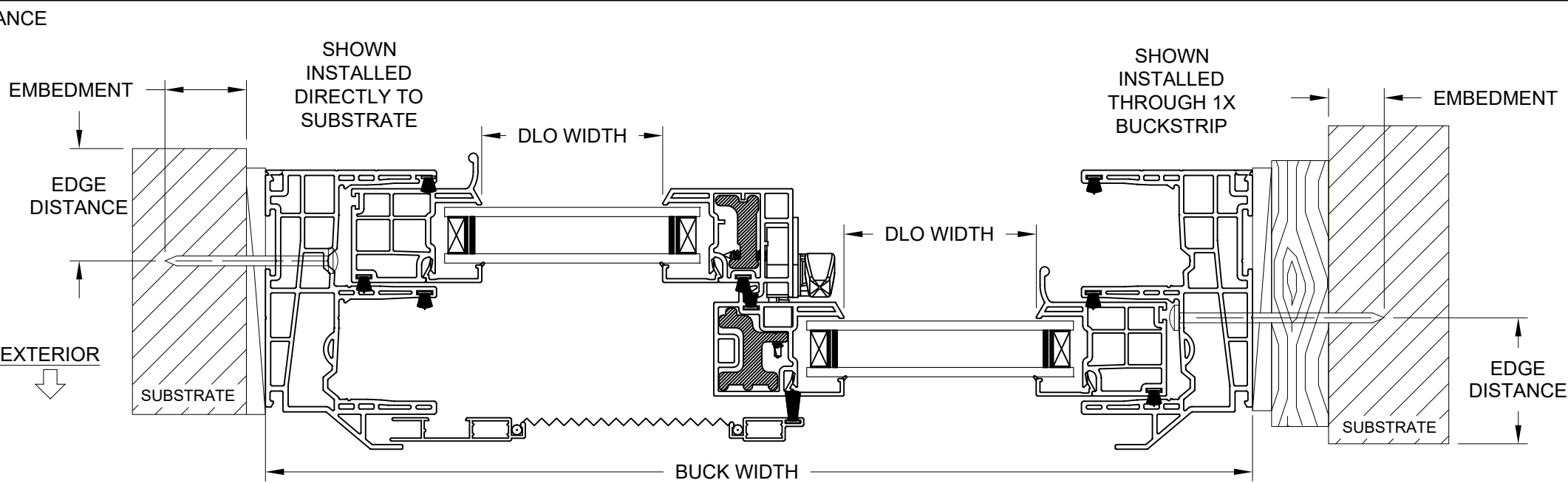


VERTICAL SECTION A-A (1)

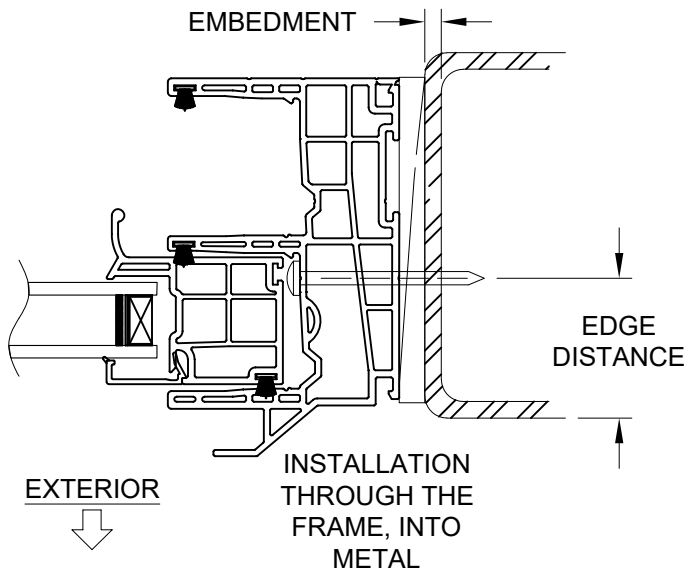


VERTICAL SECTION A-A (2)
SILL SHOWN, HEAD SIMILAR

- INSTALLATION NOTES:
- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
 - 2) SEE TABLE 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
 - 3) MAXIMUM SHIM THICKNESS TO BE 1/4".



HORIZONTAL SECTION B-B (1)



HORIZONTAL SECTION B-B (2)

TABLE 2: THROUGH-FRAME ANCHORAGE

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#8 SMS (steel or 410 S.S.)	Southern Pine (SG=0.55)	7/16"	1-1/4"
	Steel, A36	5/8"	0.048" (18 Ga.)
	Steel Stud, A653 Gr. 33	5/8"	0.048" (18 Ga.)
3/16" Ultracon+ (steel)	Aluminum, 6063-T5	5/8"	0.048" (18 Ga.)
	Southern Pine (SG=0.55)	1/2"	1-3/8"
	Concrete (min. 3.00 ksi)	2-1/2"	1-1/4"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	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.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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650 WEST MARKET STREET
GRATZ, PA 17030
(717) 365-3300

VINYL HORIZONTAL SLIDER WINDOW (LM)

FINLESS INSTALLATION DETAILS

02/06/26

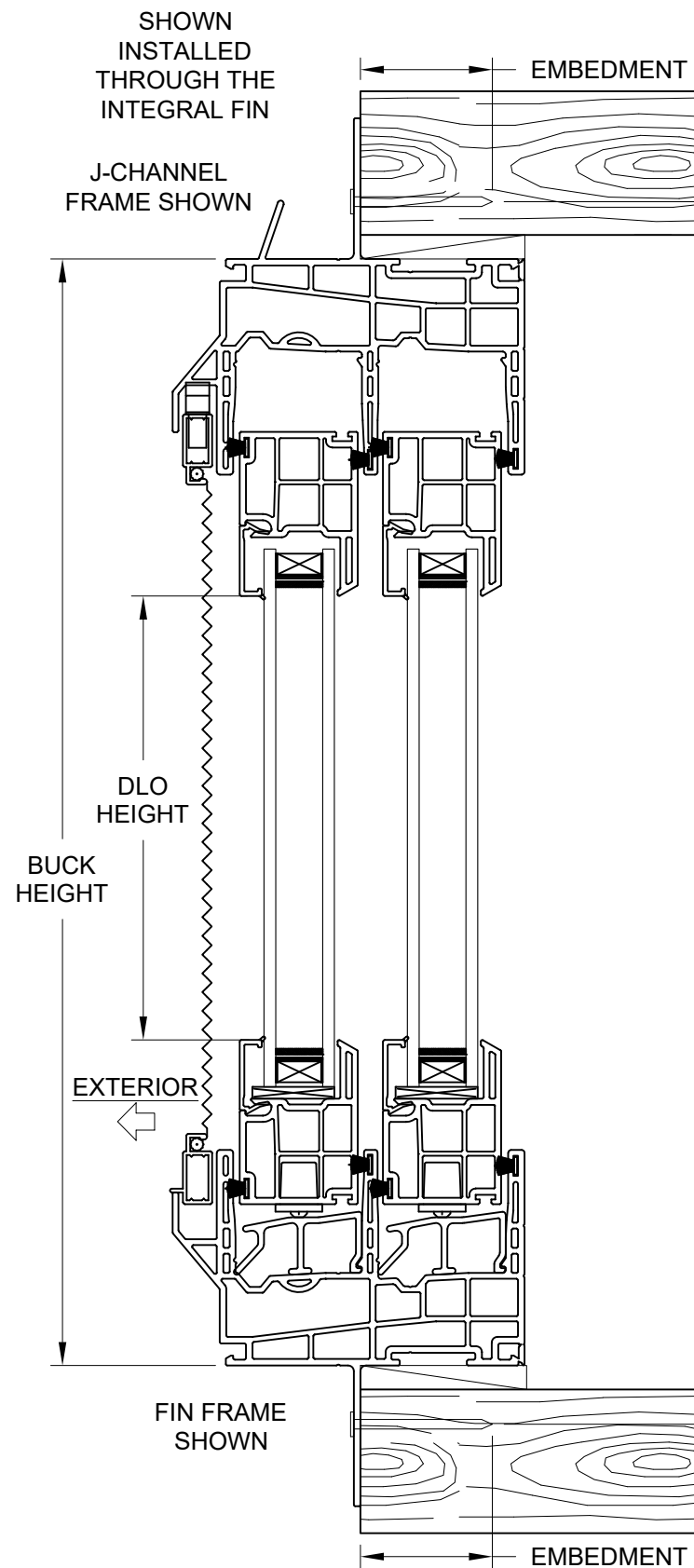
COLTON KEMPFF

1685 HS

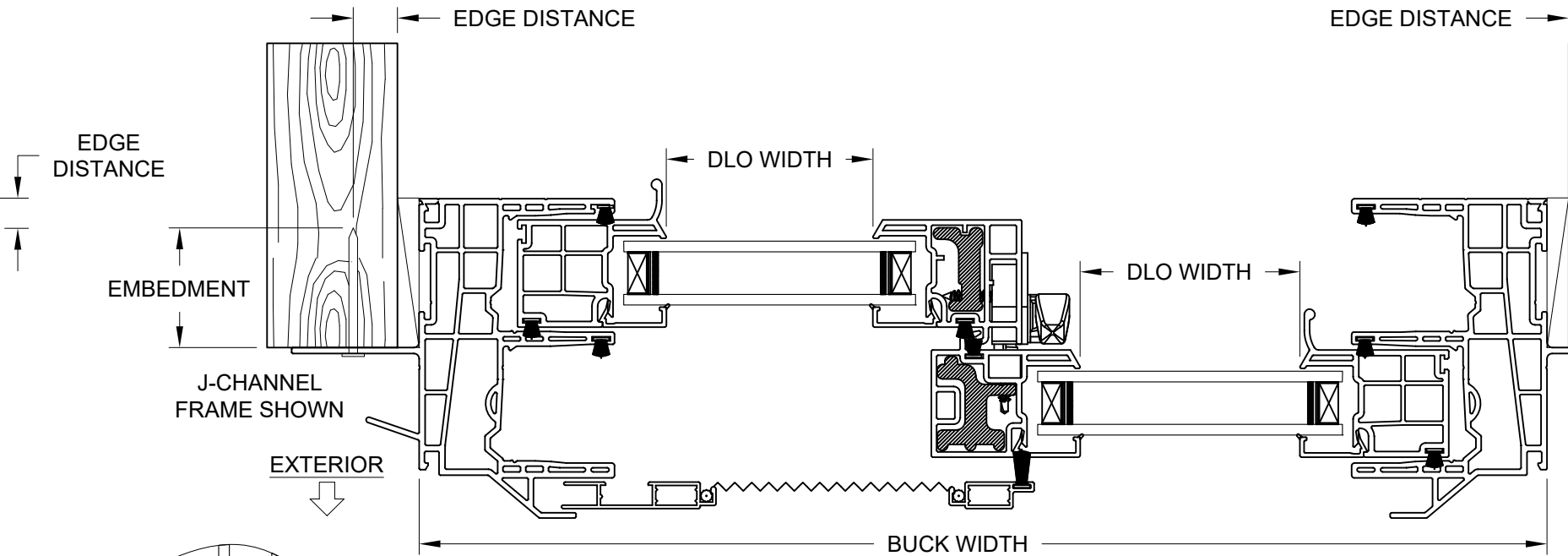
2 OF 4

1685 HS FPA

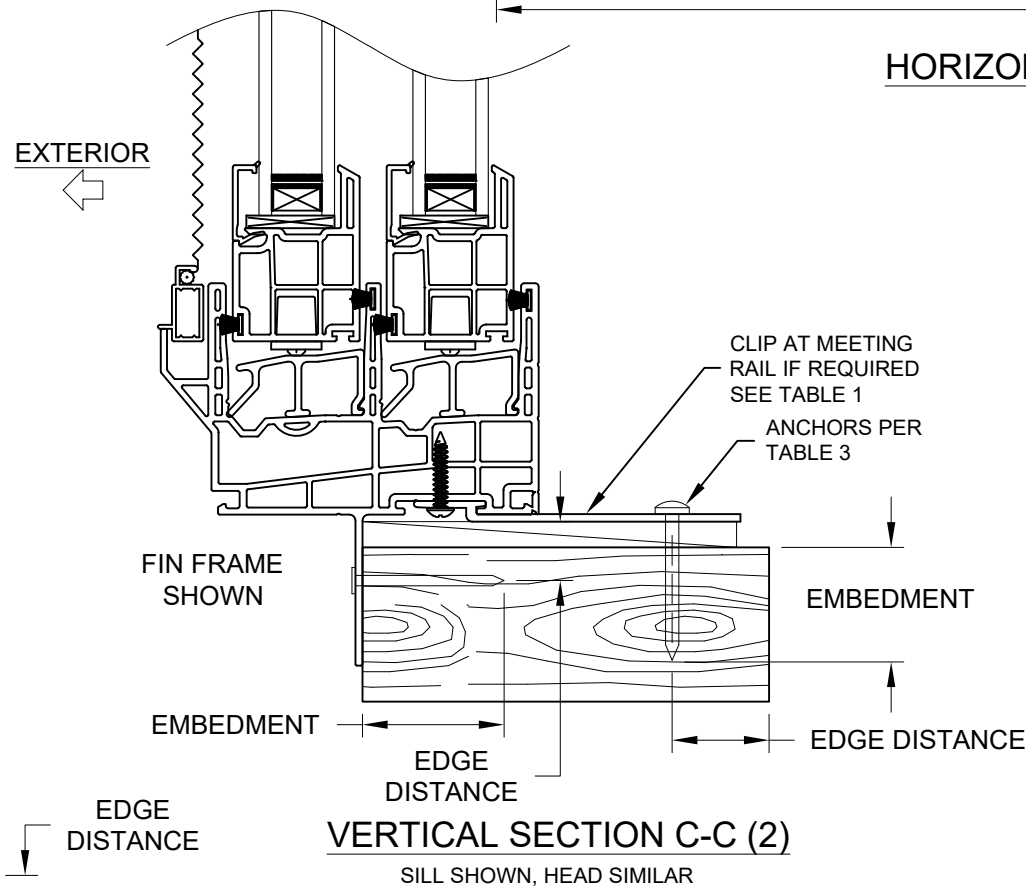
ANTHONY LYNN MILLER
LICENSE
No. 58705
2/6/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



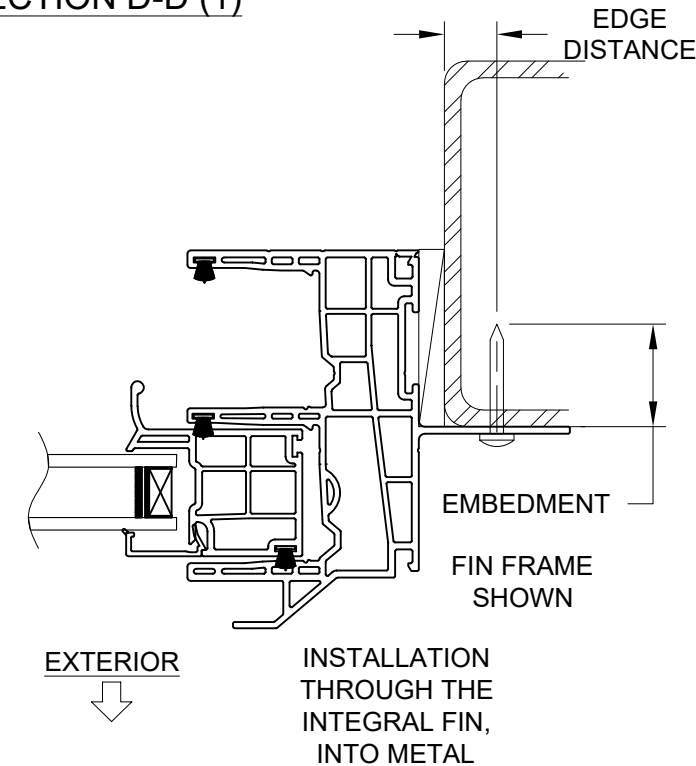
VERTICAL SECTION C-C (1)



HORIZONTAL SECTION D-D (1)



VERTICAL SECTION C-C (2)



HORIZONTAL SECTION D-D (2)

INSTALLATION NOTES:

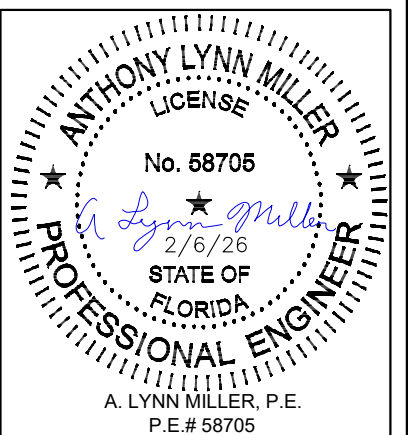
- 1) SEE SHEET 1 FOR ANCHOR SPACING REQUIREMENTS.
- 2) SEE TABLE 3 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4".
- 4) MAXIMUM SHIM SPACING OF 18" O.C.
- 5) FLANGES OR FINS MAY BE REMOVED TO CREATE A FINLESS FRAME

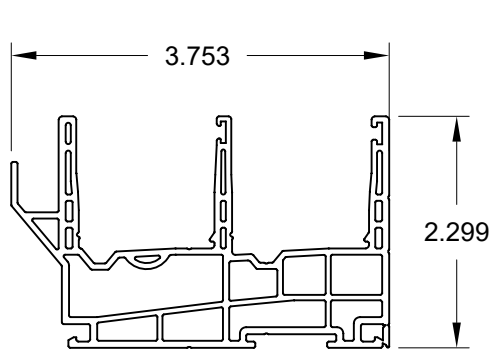
TABLE 3: THROUGH-FIN ANCHORAGE

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#8 SMS (steel, 18-8 S.S. or 410 S.S.) Panhead or Flathead	Southern Pine (SG=0.55)	7/16"	1-1/4"
	Steel, A36	7/16"	0.048" (18 Ga.)
	Steel Stud, A653 Gr. 33	7/16"	0.048" (18 Ga.)
	Aluminum, 6063-T5	7/16"	0.048" (18 Ga.)

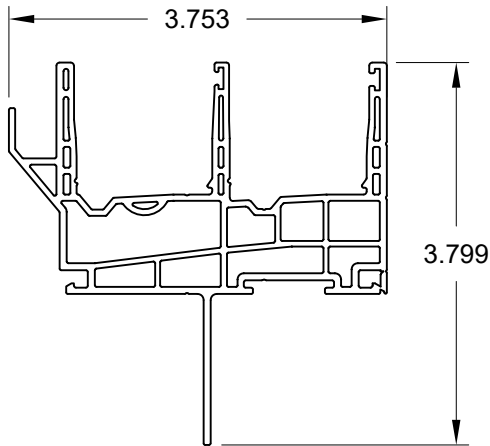
1) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

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	650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300	VINYL HORIZONTAL SLIDER WINDOW (LM)	Title FIN INSTALLATION DETAILS	Sheet 3 OF 4	Series 1685 HS

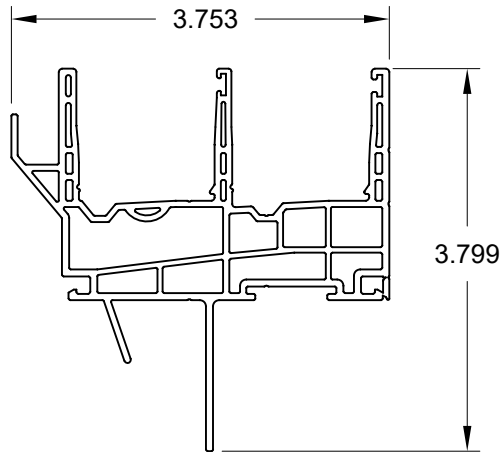




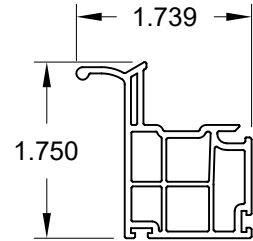
**MAIN FRAME
FINLESS INSTALLATION**
VINYL PVC (V-1001)



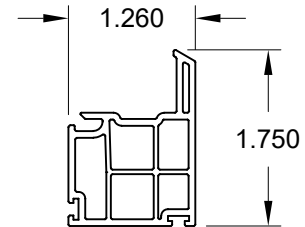
**MAIN FRAME
FIN INSTALLATION**
VINYL PVC (V-1000)



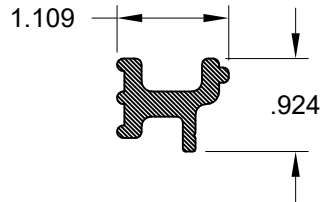
**MAIN FRAME
J-CHANNEL INSTALLATION**
VINYL PVC (V-999)



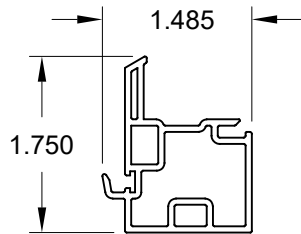
**THERMAL SASH LIFT
AND PULL RAIL**
VINYL PVC (V-1077)



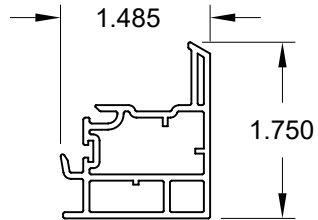
**THERMAL SASH
TOP & BOTTOM RAIL**
VINYL PVC (V-1004)



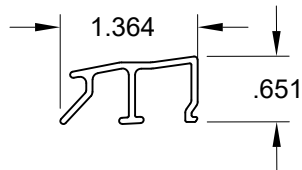
**SASH KEEPER RAIL
REINFORCEMENT**
FIBERGLASS (MS400310)



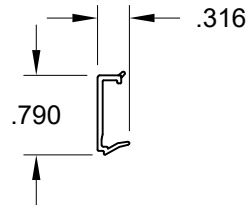
INTERLOCK/KEEPER RAIL
VINYL PVC (V-684)



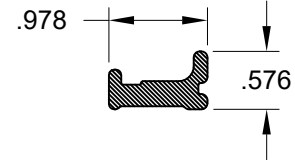
SASH LOCK STILE
VINYL PVC (V-675)



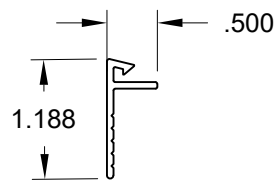
FRAME ROLLER TRACK
VINYL PVC (V-1100)



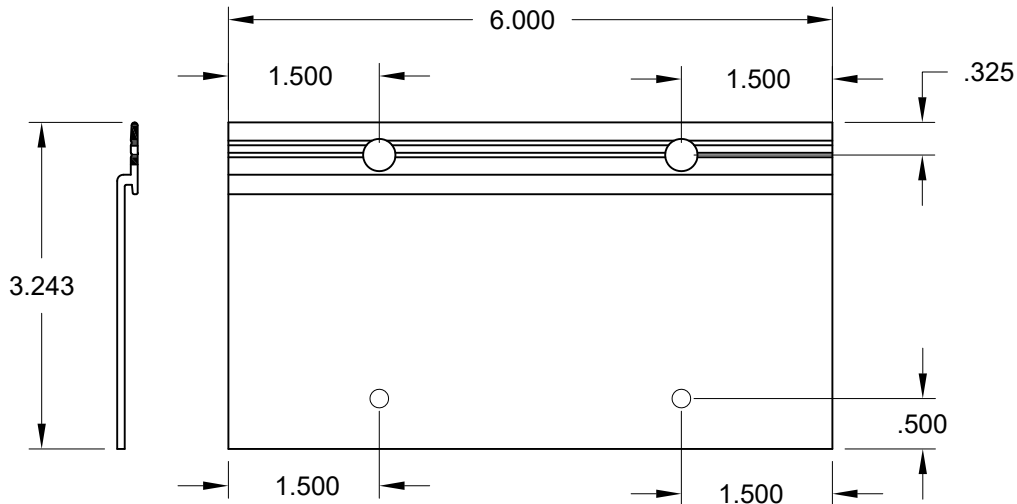
GLAZING BEAD
RIGID PVC (V-1082)



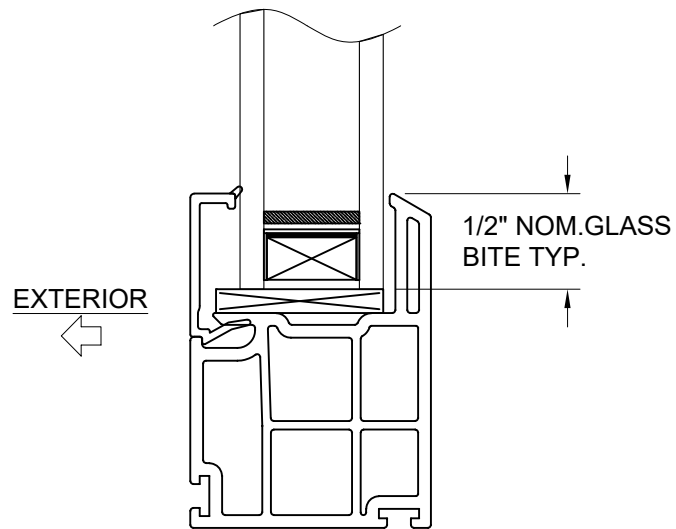
LOCK RAIL REINFORCEMENT
FIBERGLASS (MS400340)



FLANGE ADAPTER
VINYL PVC (7276)



CLIP/STRAP
ALUMINUM 6063-T5 (M-2336)



TYP. GLAZING DETAIL

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EXTRUSIONS AND GLAZING DETAIL		COLTON KEMP		1685 HS FPA	
4 OF 4		1685 HS		Sheet	

