

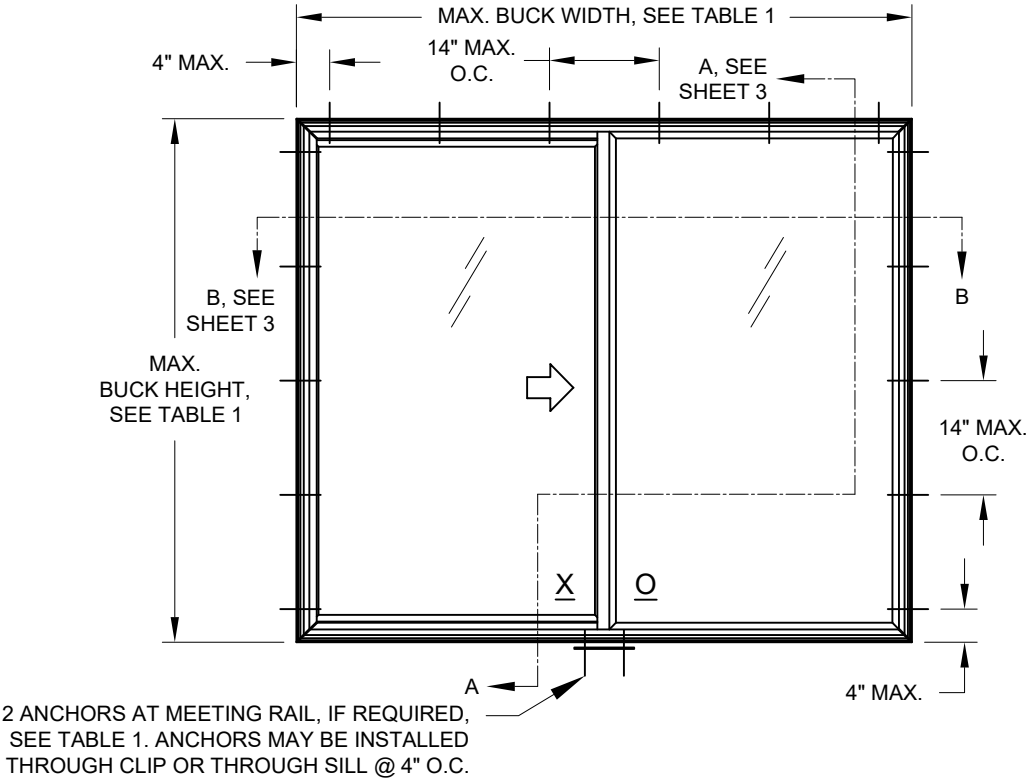
SERIES 1630 VINYL HORIZONTAL SLIDING WINDOW
NON-IMPACT RESISTANT

FLORIDA PRODUCT APPROVAL #21638

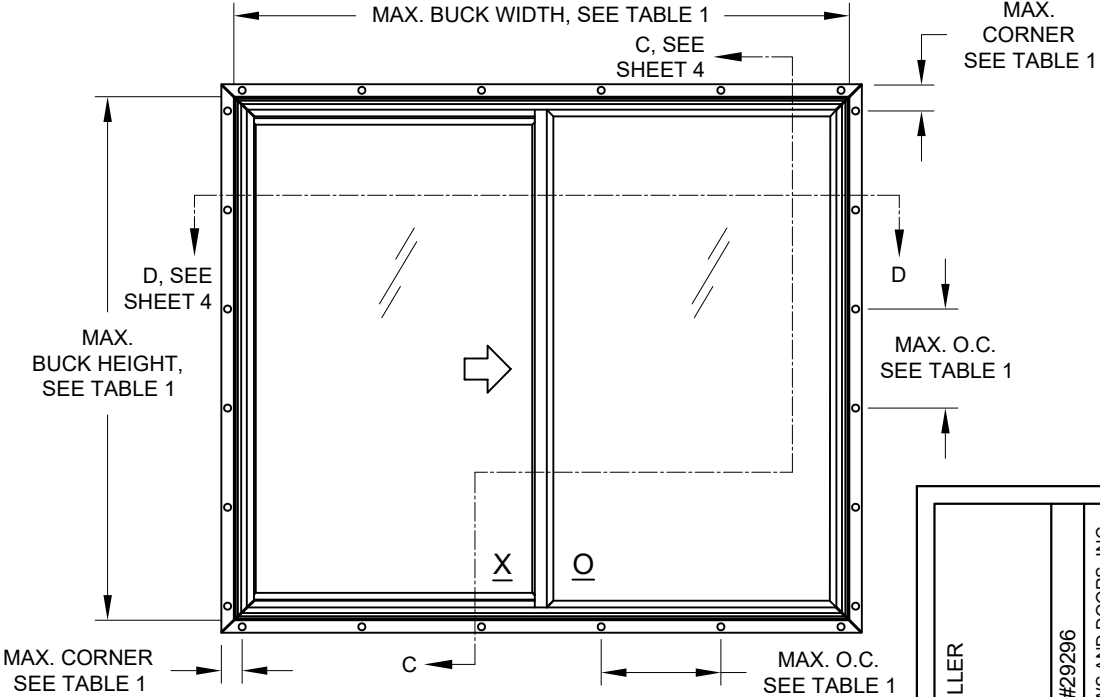
DESIGN PRESSURE RATING
SEE TABLES 1 & 2

IMPACT RATING
NOT RATED FOR IMPACT
RESISTANCE

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE.
- 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. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW. 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) REFER TO CURRENT FLORIDA BUILDING CODE FOR EGRESS REQUIREMENTS.
- 9) FRAME FLANGES OR INTEGRAL FINNS MAY BE TRIMMED IN-FIELD TO CREATE OTHER FRAME TYPES.



TYP. FINLESS & FLANGE FRAME,
XO SHOWN, OX SIMILAR



TYP. FIN & J-CHANNEL FRAME,
XO SHOWN, OX SIMILAR

TABLE 1:

Window Buck Size		Configuration	Frame Type	Design Pressure		Product Rating	CPD No.	Alum. Pull Rail	Mtg. Rail Anchors	Through Fin Anchorage Max. Spacing
Width	Height			(+) psf	(-) psf					
72"	53"	XO/OX	Finless	45.0	45.0	LC-PG45	15951	No	No	N/A
72"	53"	XO/OX	Fin	50.0	60.0	LC-PG50	15950	No	No	8" O.C., 3" Corner
72"	63"	XO/OX	Finless	30.0	35.0	LC-PG30	15953	No	No	N/A
72"	63"	XO/OX	Fin	40.0	40.0	LC-PG40	15949	No	No	8" O.C., 3" Corner
72"	72"	XO/OX	All	30.0	30.0	LC-PG30	16699	No	No	12" O.C., 3" Corner
74"	50"	XO/OX	All	50.0	50.0	LC-PG50	17426	No	Yes, Finless	12" O.C., 3" Corner
74"	63"	XO/OX	All	25.0	25.0	LC-PG25	22948	No	Yes, Finless	16" O.C., 2" Corner
74"	63"	XO/OX	All	50.0	50.0	LC-PG50	18924	Yes	Yes, Finless	8" O.C., 3" Corner
84"	48"	XO/OX	Finless	45.0	45.0	LC-PG45	15952	No	No	N/A
84"	48"	XO/OX	Fin	50.0	50.0	LC-PG50	15948	No	No	8" O.C., 3" Corner

NOTE: FIN FRAME TYPE ALSO INCLUDES J-CHANNEL. FINLESS ALSO INCLUDES FLANGE.

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.

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

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

VINYL HORIZONTAL SLIDING WINDOW (NI)
6/8/26
6/8/26

COLTON KEMPFF
6/8/26

1630 HS

1 OF 5

1630HS-NI

XO ELEVATION & GENERAL NOTES

Series Desc.

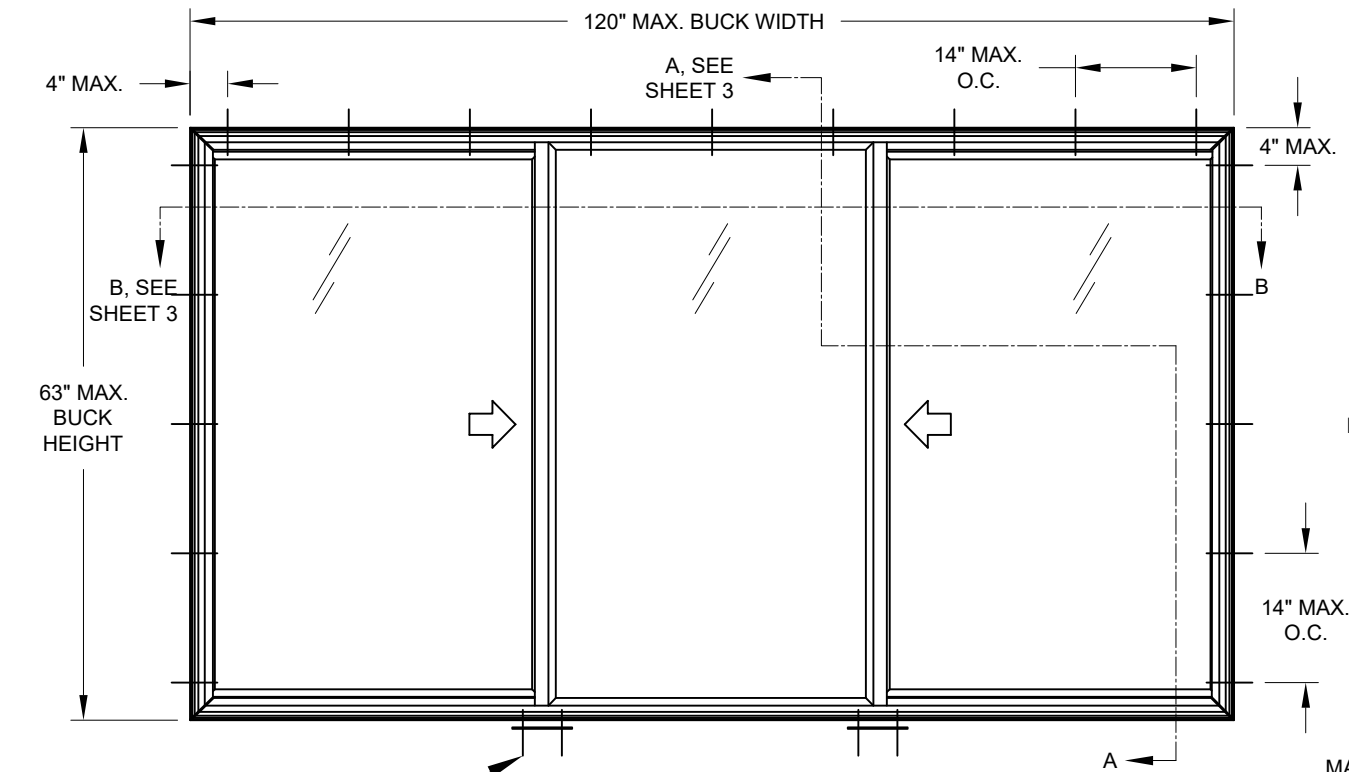
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DWG No.

By

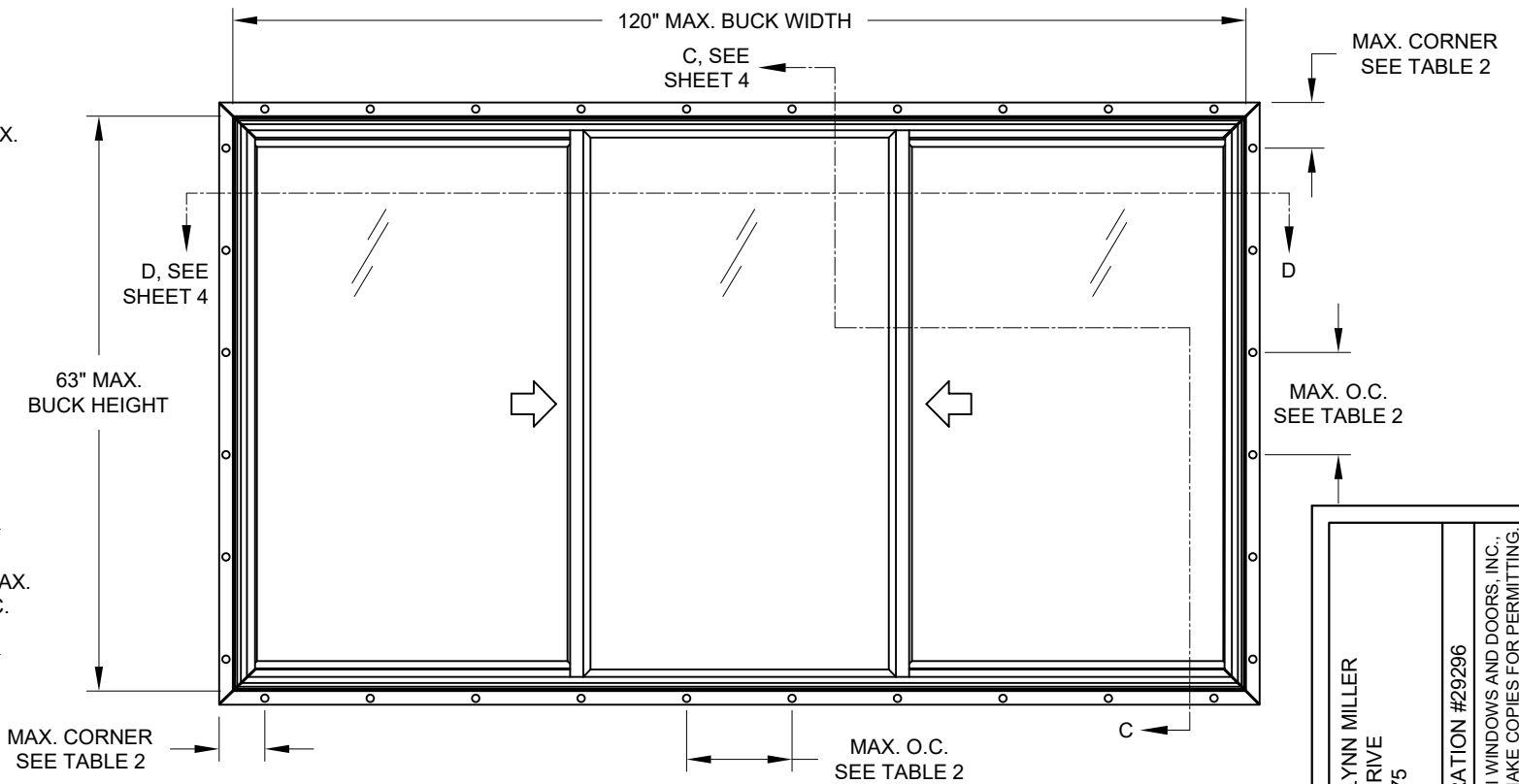
Title

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/8/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



2 ANCHORS REQUIRED AT MEETING RAILS. ANCHORS MAY BE INSTALLED THROUGH CLIP OR THROUGH FRAME @ 4" O.C.

TYP. FINLESS & FLANGE FRAME, XOX
1/3-1/3-1/3 SHOWN, 1/4-1/2-1/4 SIMILAR.



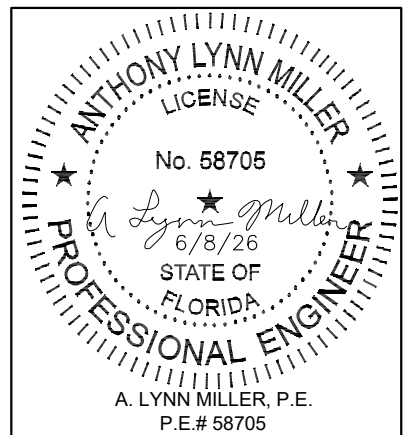
TYP. FIN & J-CHANNEL FRAME, XOX
1/3-1/3-1/3 SHOWN, 1/4-1/2-1/4 SIMILAR.

TABLE 2:

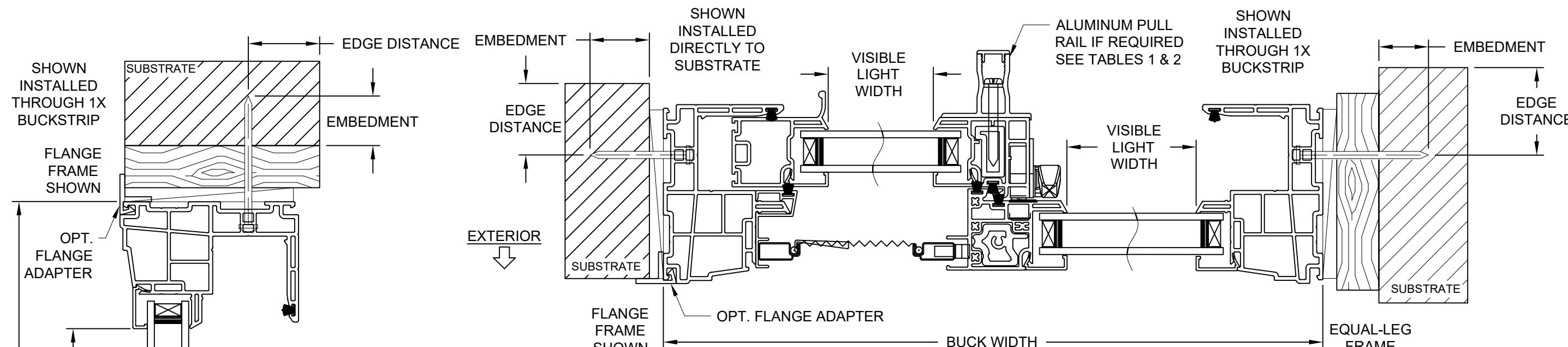
Window Buck Size		Configuration	Frame Type	Design Pressure		Product Rating	CPD No.	Alum. Pull Rail	Mtg. Rail Anchors	Through Fin Anchorage Max. Spacing
Width	Height			(+) psf	(-) psf					
96"	48"	XOX 1/3-1/3-1/3	All	50.0	50.0	LC-PG50	16744	No	Yes, Finless	16" O.C., 4" Corner
96"	48"	XOX 1/4-1/2-1/4	All	50.0	50.0	LC-PG50	16743	No	Yes, Finless	16" O.C., 4" Corner
96"	53"	XOX 1/3-1/3-1/3	All	40.0	40.0	LC-PG40	16746	No	Yes, Finless	16" O.C., 4" Corner
96"	53"	XOX 1/4-1/2-1/4	All	40.0	40.0	LC-PG40	16747	No	Yes, Finless	16" O.C., 4" Corner
110"	63"	XOX 1/3-1/3-1/3	Finless	50.0	50.0	LC-PG50	19021	Yes	Yes	N/A
110"	63"	XOX 1/3-1/3-1/3	Fin	35.0	35.0	LC-PG35	19022	Yes	No	12" O.C., 3" Corner
120"	63"	XOX 1/3-1/3-1/3	All	25.0	25.0	LC-PG25	16745	No	Yes, Finless	16" O.C., 3" Corner
120"	63"	XOX 1/4-1/2-1/4	All	25.0	25.0	LC-PG25	16742	No	Yes, Finless	16" O.C., 3" Corner
120"	63"	XOX 1/3-1/3-1/3	Finless	45.0	45.0	LC-PG45	18922	Yes	Yes	N/A
120"	63"	XOX 1/3-1/3-1/3	Fin	30.0	30.0	LC-PG30	18923	Yes	No	12" O.C., 3" Corner

NOTE: FIN FRAME TYPE ALSO INCLUDES J-CHANNEL. FINLESS ALSO INCLUDES FLANGE.

MI[®] WINDOWS and DOORS 650 WEST MARKET STREET GRATZ, PA 17030 (717) 365-3300	PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	6/8/26	COLTON KEMPf	1630HS-NI
		COPYRIGHT © 2026 MI WINDOWS AND DOORS, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	VINYL HORIZONTAL SLIDING WINDOW (NI)	XOX ELEVATIONS	2 OF 5
SHEET 1630 HS		2 OF 5		1630HS-NI	



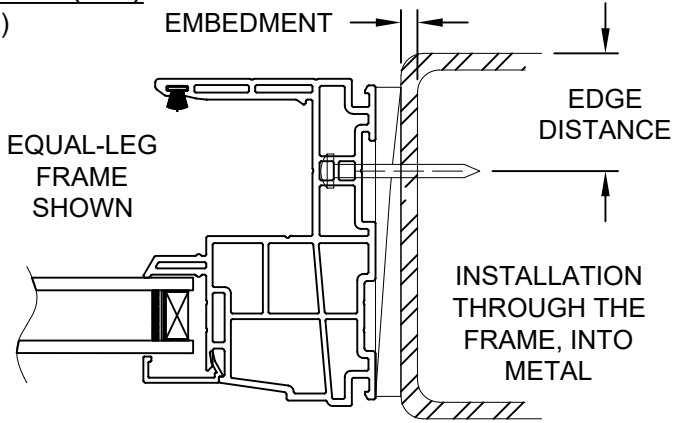
Rev.	Date



HORIZONTAL SECTION B-B (XO)
(OX & XOX SIMILAR)

INSTALLATION NOTES:

- 1) SEE SHEETS 1 & 2 FOR ANCHOR SPACING REQUIREMENTS
- 2) SEE TABLE 3 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4"



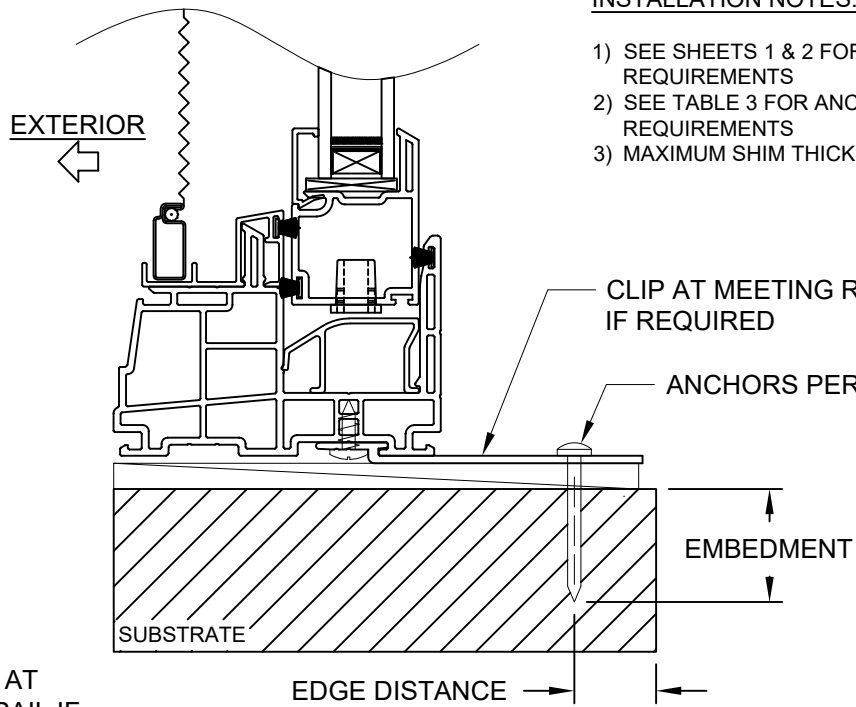
HORIZONTAL SECTION B-B (2)

TABLE 3:

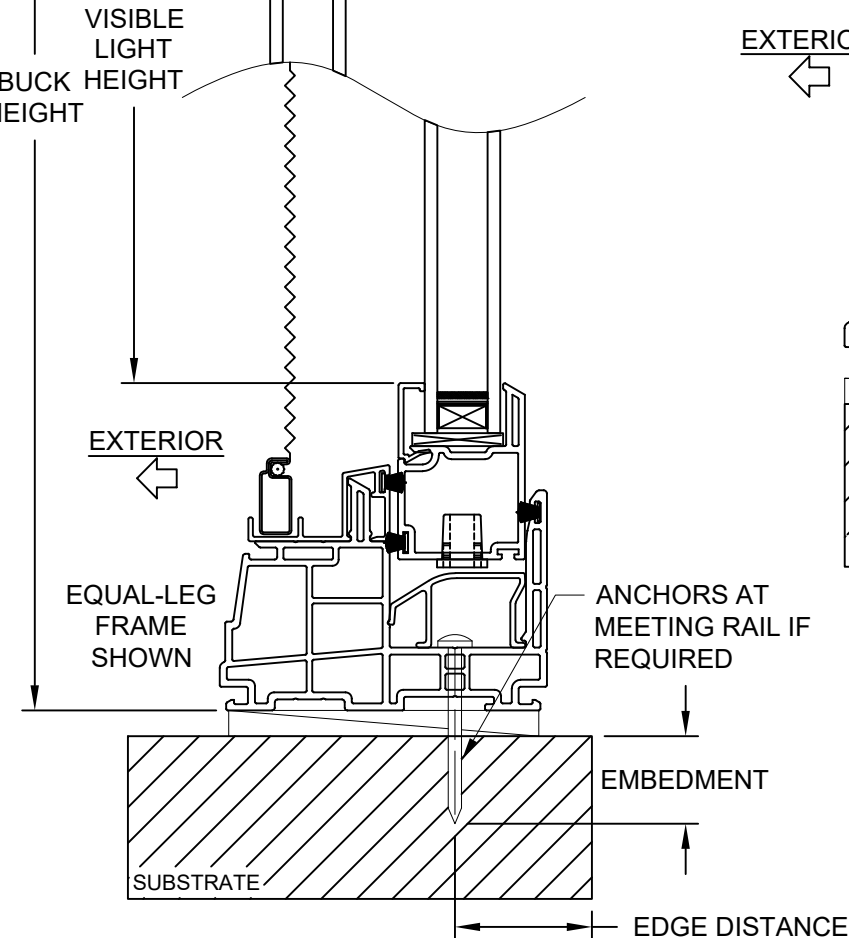
Anchor	Substrate	Min. Edge Distance	Min. Embedment
#8 Carbon Steel SMS	Spruce-Pine-Fir (SG=0.42)	1"	1-1/4"
	Spruce-Pine-Fir (SG=0.42)	1"	1-1/4"
#10 SMS Carbon Steel or 410 SS	Steel, A36	1/2"	0.048" (18 Ga.)
	Steel Stud, A653 Gr. 33	1/2"	0.048" (18 Ga.)
	Aluminum, 6063-T5	1/2"	0.125"
#12 SMS Carbon Steel or 18-8, 316, 410 SS	Spruce-Pine-Fir (SG=0.42)	1"	1-1/4"
	Steel, A36	1/2"	0.048" (18 Ga.)
	Steel Stud, A653 Gr. 33	1/2"	0.048" (18 Ga.)
	Aluminum, 6063-T5	1/2"	0.125"
3/16" Steel Ultracon+	Spruce-Pine-Fir (SG=0.42)	1/2"	1-3/8"
	Concrete (min. 3.00 ksi)	2"	1-1/2"
	UngROUTED CMU, (ASTM C-90)	2"	1-1/2"
1/4" 304 SS Aggre-Gator	Spruce-Pine-Fir (SG=0.42)	1"	1-3/8"
	Concrete (min. 2.22 ksi)	1-1/2"	1-3/8"
	UngROUTED CMU, (ASTM C-90)	2"	1-1/4"
1/4" 410 SS Creteflex	Spruce-Pine-Fir (SG=0.42)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	UngROUTED CMU, (ASTM C-90)	2-1/2"	1-1/4"

TABLE 3 NOTES:

- 1) "UNGROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
- 3) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 4) ALL SCREWHEAD TYPES ARE APPLICABLE.



VERTICAL SECTION A-A (2)
MEETING RAIL ANCHORS THROUGH CLIP



VERTICAL SECTION A-A
MEETING RAIL ANCHORS THROUGH FRAME

PREPARED BY A. LYNN MILLER
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650 WEST MARKET STREET
GRATZ, PA 17030
(717) 365-3300

6/8/26
Date

VINYL HORIZONTAL SLIDING WINDOW (NI)
Title

COLTON KEMPFF
By

FINLESS INSTALL. DETAILS
Series Desc.

1630 HS
Sheet

3 OF 5
DWG No.

1630HS-NI
Series

ANTHONY LYNN MILLER
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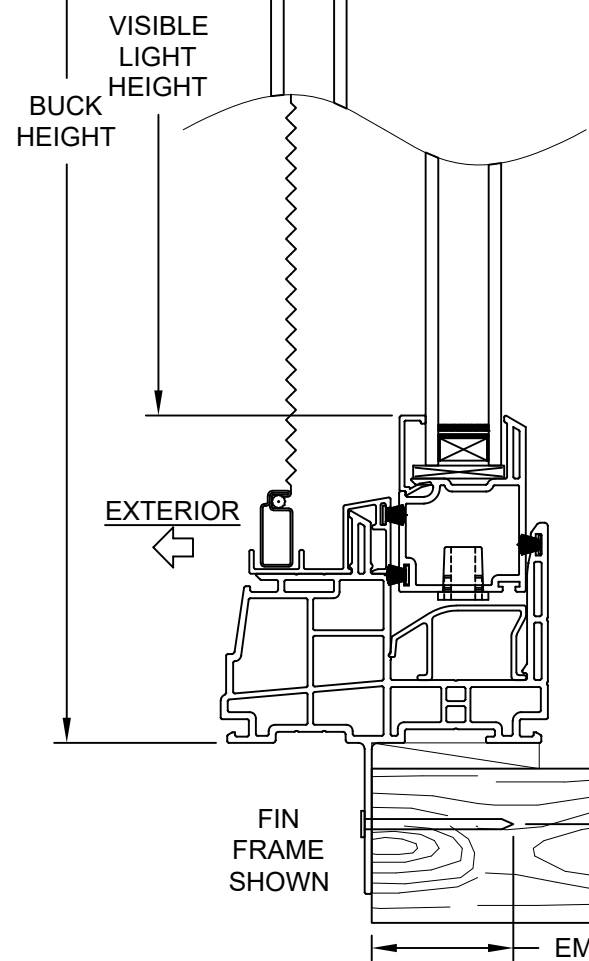
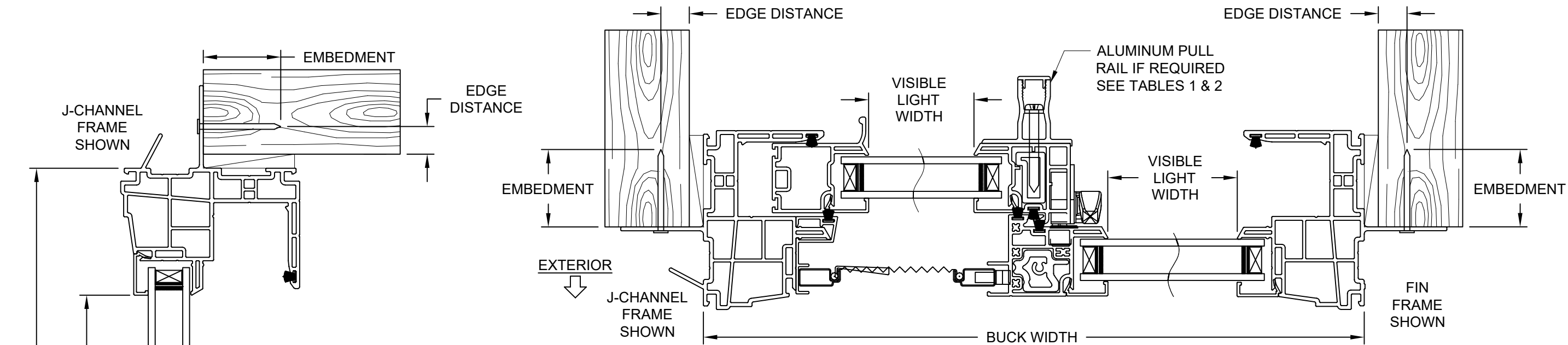


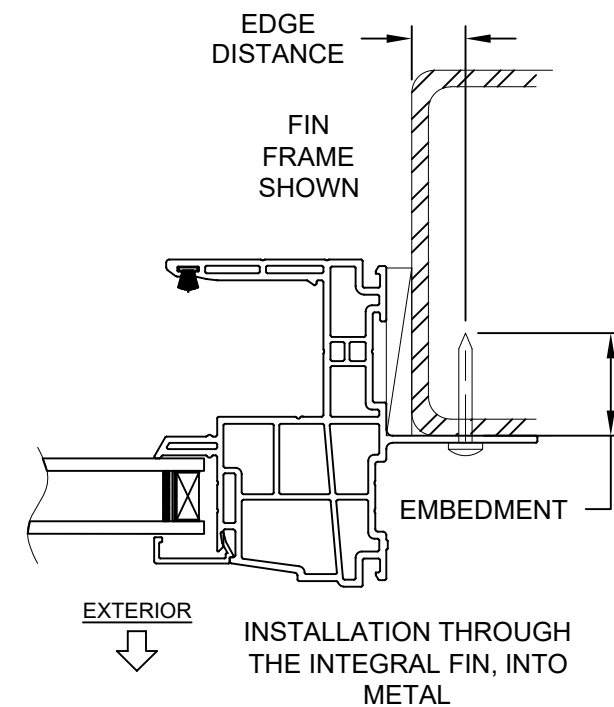
TABLE 4:

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#8 SMS Carbon Steel or 18-8, 316, 410 SS	Spruce-Pine-Fir (SG=0.42)	7/16"	1-1/2"
#10 SMS Carbon Steel or 18-8, 316, 410 SS	Spruce-Pine-Fir (SG=0.42)	1/2"	1-1/2"
	Steel, A36	1/2"	0.048" (18 Ga.)
	Steel Stud, A653 Gr. 33	1/2"	0.048" (18 Ga.)
	Aluminum, 6063-T5	1/2"	0.125"

- 1) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
- 2) 18-8 FASTENERS SHALL BE MANUFACTURED FROM TYPE 304 OR 305 STAINLESS STEEL PER ASTM A240.
- 3) ALL SCREWHEAD TYPES ARE APPLICABLE.

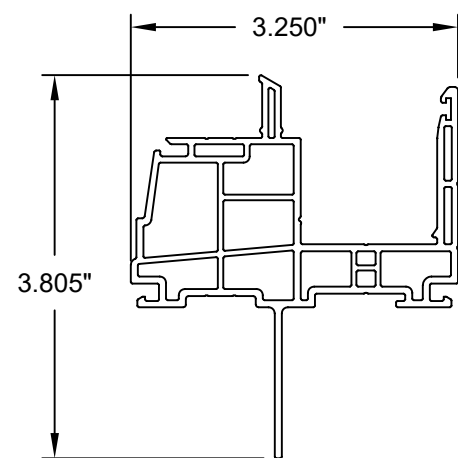
INSTALLATION NOTES:

- 1) SEE SHEETS 1 & 2 FOR ANCHOR SPACING REQUIREMENTS
- 2) SEE TABLE 4 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS
- 3) MAXIMUM SHIM THICKNESS TO BE 1/4"

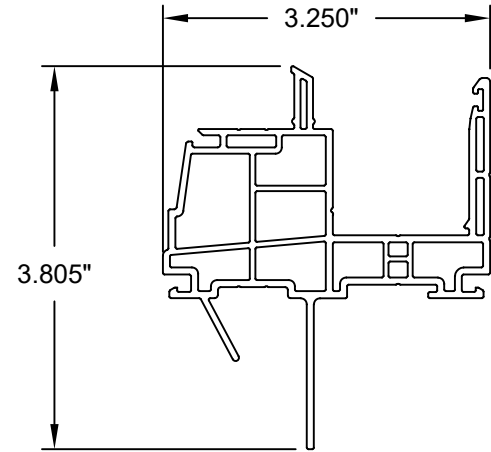


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1630 HS		4 OF 5		1630HS-NI
NAIL FIN INSTALL. DETAILS		COLTON KEMPFF		

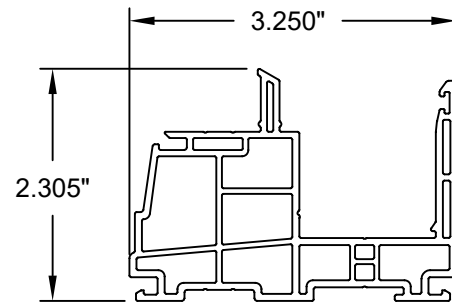
ANTHONY LYNN MILLER
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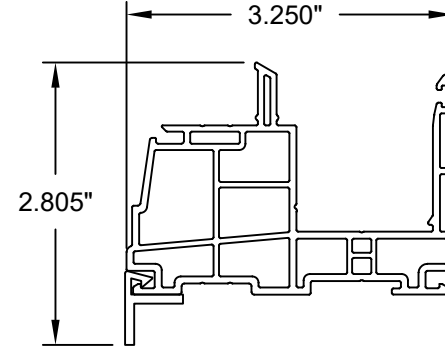
**MAIN FRAME
FIN INSTALLATION**
VINYL PVC (V-1019)



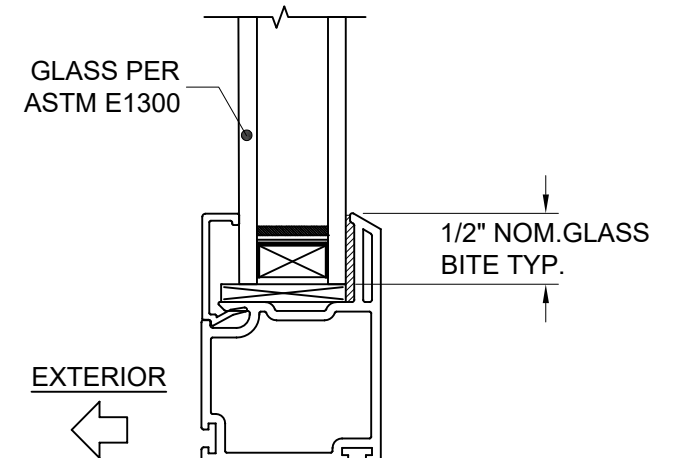
**MAIN FRAME
J-CHANNEL INSTALLATION**
VINYL PVC (V-1018)



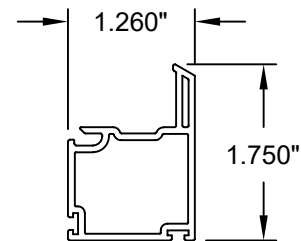
**MAIN FRAME
FINLESS INSTALLATION**
VINYL PVC (V-1020)



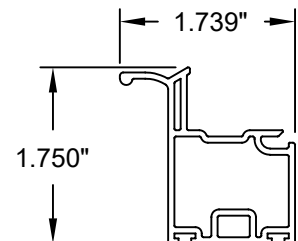
**MAIN FRAME
FLANGE INSTALLATION**
VINYL PVC (V-1022)



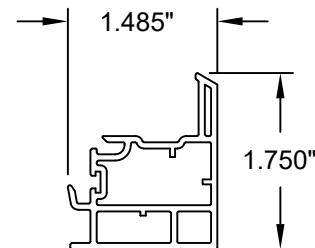
TYP. GLAZING DETAIL



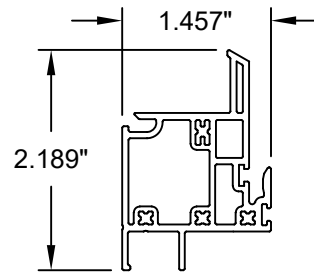
**SASH HORIZONTAL
RAIL**
VINYL PVC (V-670)



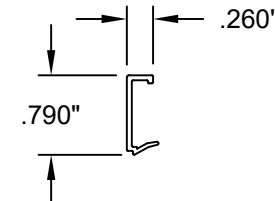
SASH PULL RAIL
VINYL PVC (V-672)



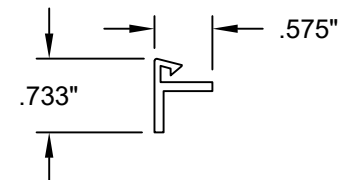
SASH LOCK RAIL
VINYL PVC (V-675)



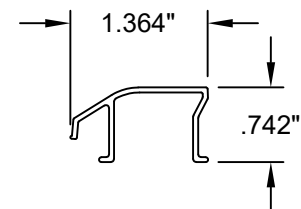
FIXED MEETING RAIL
VINYL PVC (V-1016)



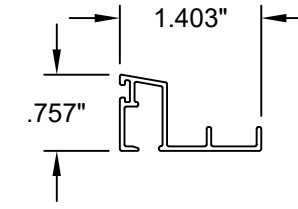
GLAZING BEAD
VINYL PVC (V-904)



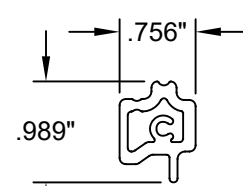
SNAP ON FLANGE
VINYL PVC (V-916)



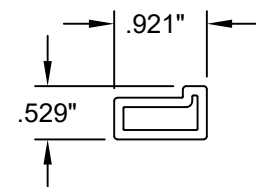
ROLLER TRACK
ALUMINUM 6063-T5 (M-2541)



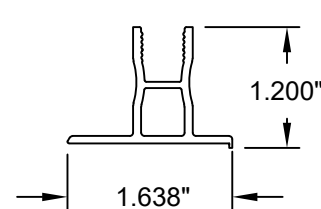
**OPERABLE SCREEN
TRACK**
ALUMINUM 6063-T5 (M-2340)



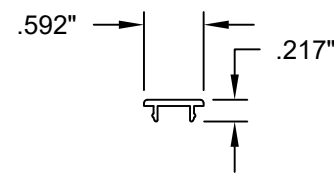
**MEETING RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2343)



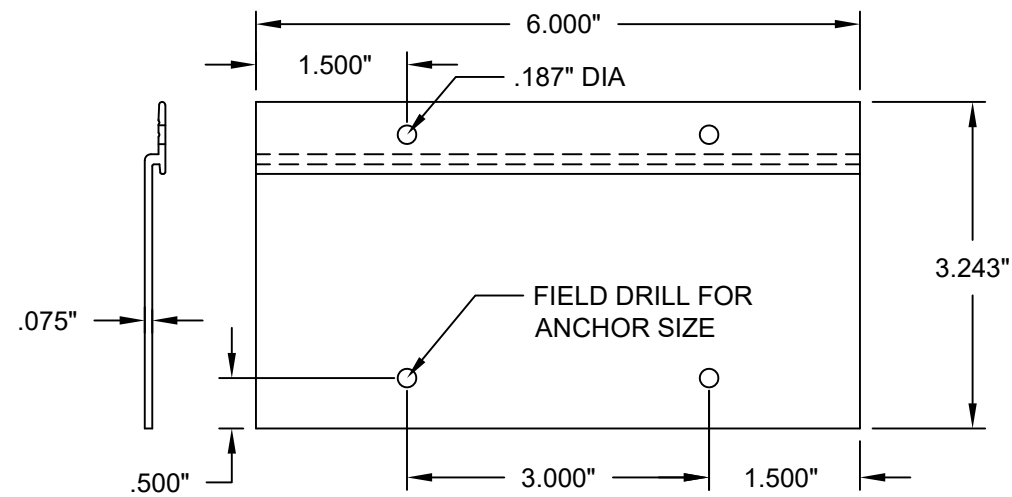
**LOCK RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2115)



PULL RAIL
ALUMINUM 6063-T5 (M-2351)



PULL RAIL COVER
ALUMINUM 6063-T5 (M-2352)



FRAME CLIP
ALUMINUM 6063-T5 (M-2336)

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EXTRUSIONS & GLAZING DETAIL		COLTON KEMPFF		1630 HS-NI	
1630 HS		5 OF 5		DWG No.	
Sheet		1630 HS		Title	

