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10250 Philipp Parkway  
Streetsboro, Ohio 44241

# "BARCELONA" Model "TSL30I" HORIZONTAL SLIDING WINDOW "IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

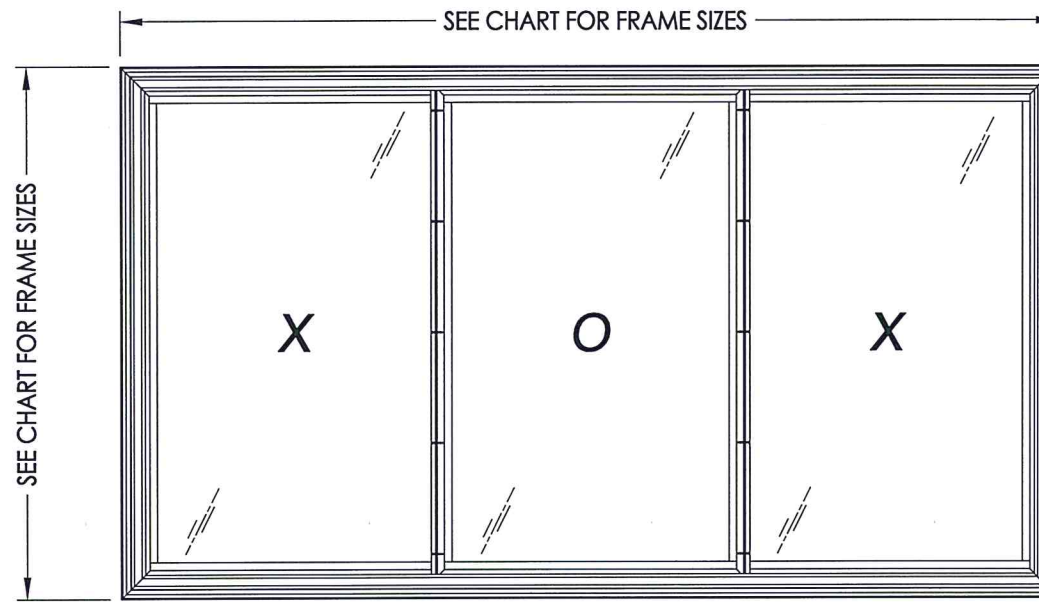
**TDI WIN-2349**

The Horizontal Sliding Window described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

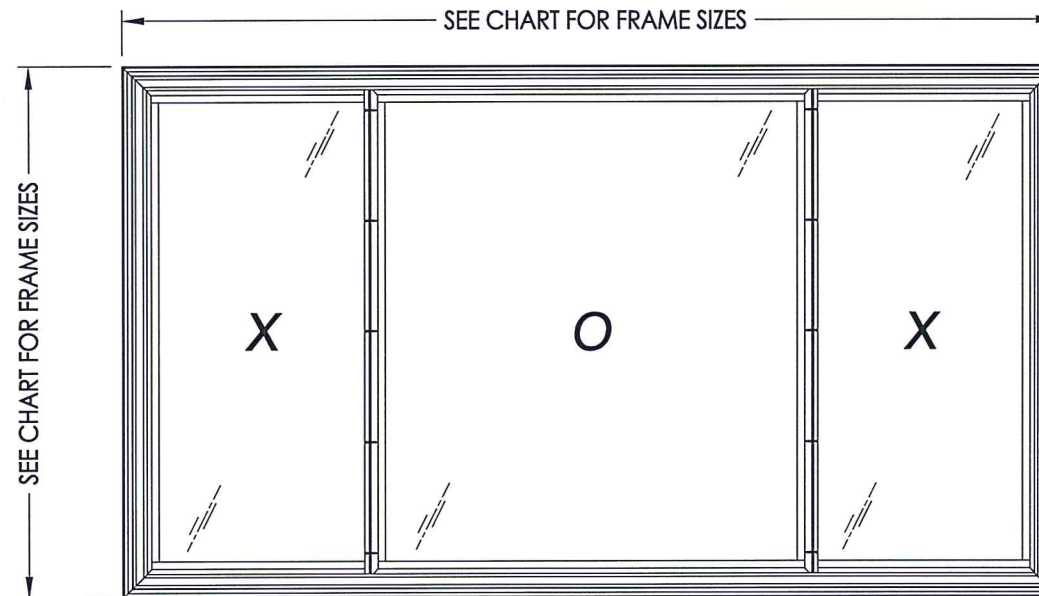
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond roof covering.
2. When used in areas requiring wind-borne debris protection, this product complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC and does not require impact protection. This product meets the following missile levels and Wind Zones as defined in ASTM E 1996:  
Glazing G1, G2: Meet missile level "C" and excludes Wind Zones 3 & 4  
Glazing G3, G4: Meet missile level "D" and includes Wind Zone 4
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

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SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Horizontal cross sections
3	Vertical cross sections
4	Buck and frame anchoring
5	Components
6	Bill of materials & glazing details



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**1/4 - 1/2 - 1/4**

CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	GLASS TYPE	MISSILE LEVEL	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
1/3 - 1/3 - 1/3	111.0" X 63.0"	32.75" x 54.25"	G1	C	+50.0	-55.0
1/4 - 1/2 - 1/4	111.0" X 63.0"	24.25" x 54.25"	G1	C	+50.0	-55.0
		49.75" x 54.25"	G2			
1/3 - 1/3 - 1/3	111.0" X 63.0"	32.75" x 54.25"	G3	D	+55.0	-60.0
1/4 - 1/2 - 1/4	111.0" X 63.0"	24.25" x 54.25"	G3	D	+55.0	-60.0
		49.75" x 54.25"	G4			

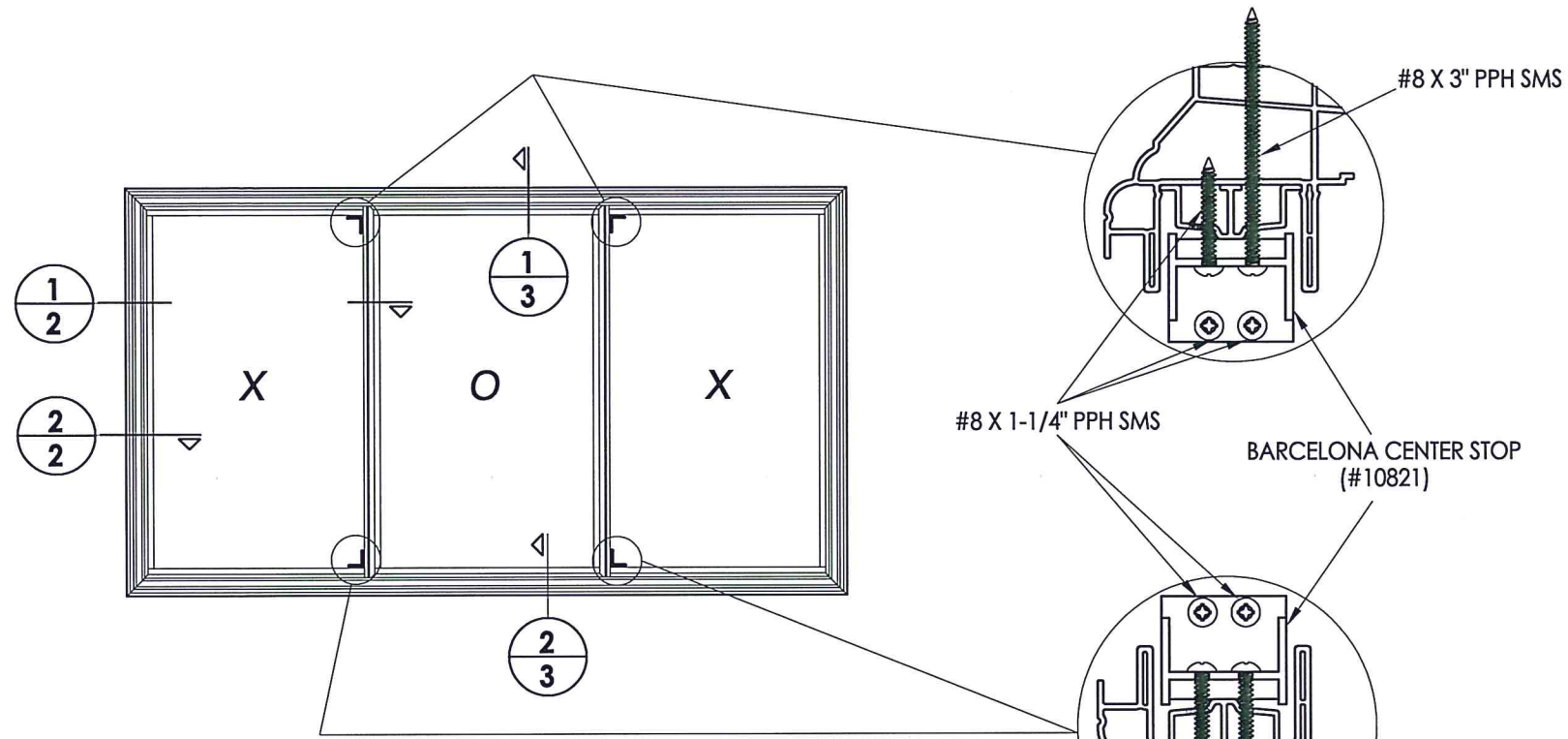


Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

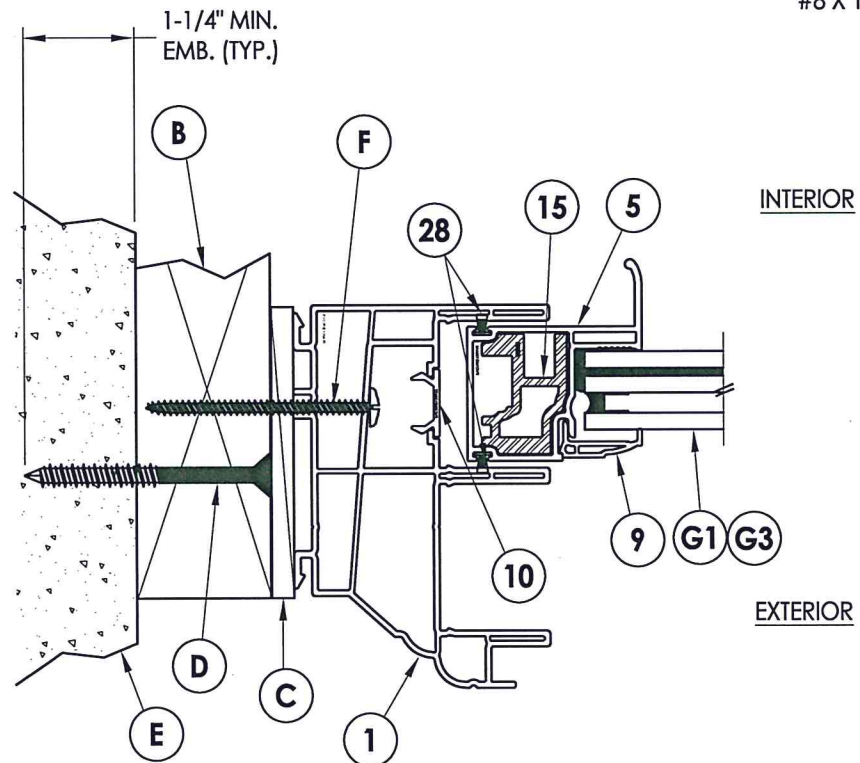
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	SOFT-LITE WINDOWS	
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
NO.	DATE	BY
1	5/11/21	LFS
UPDATE TO 2018 IBC/IRC REVISIONS		
DATE:	6/26/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4859	
SHEET	1	OF 6

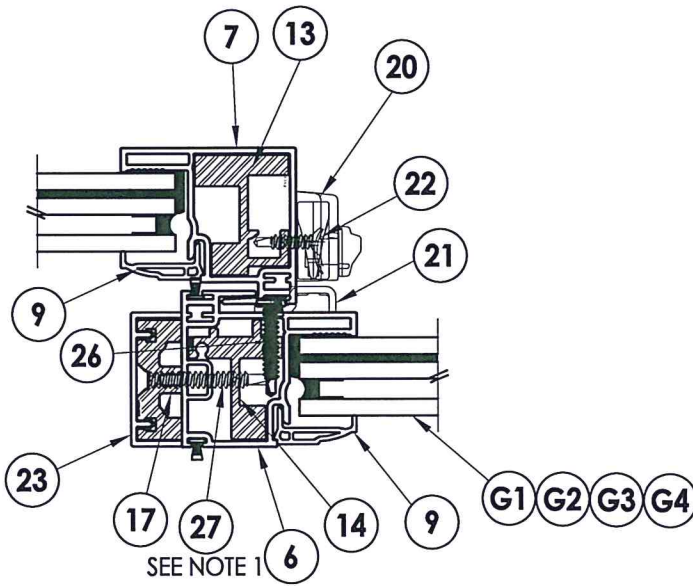
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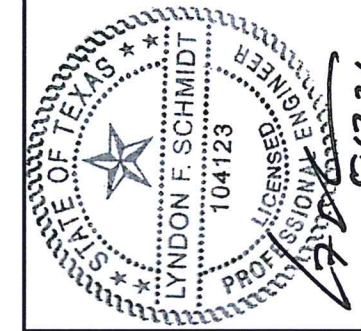
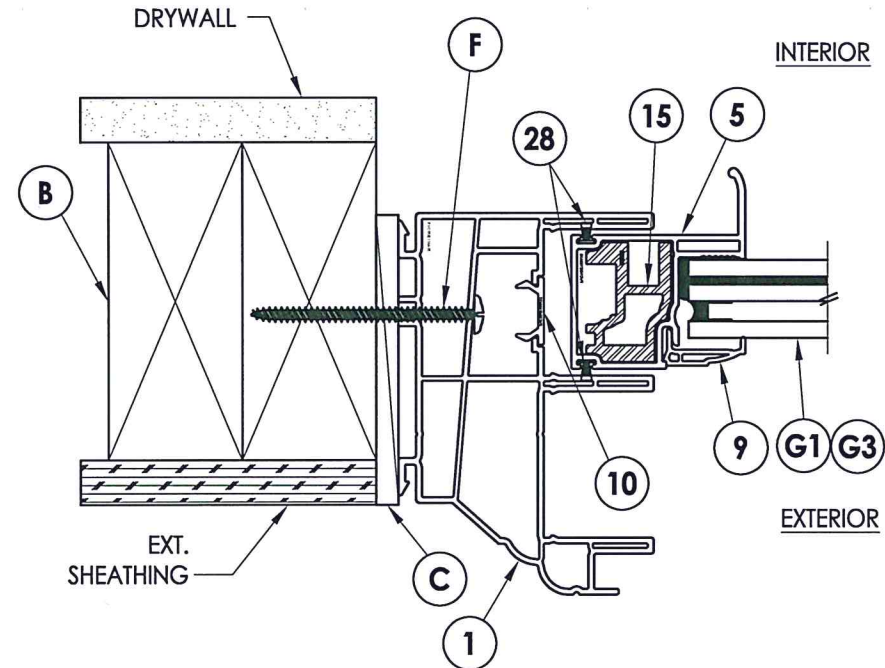
NOTE:  
1. Item #27 located 3" from each end and 3 more equally spaced (5 total).



**1 HORIZONTAL CROSS SECTION**  
2X Buck Construction



**2 HORIZONTAL CROSS SECTION**  
2 Shown w/ Stud Framing

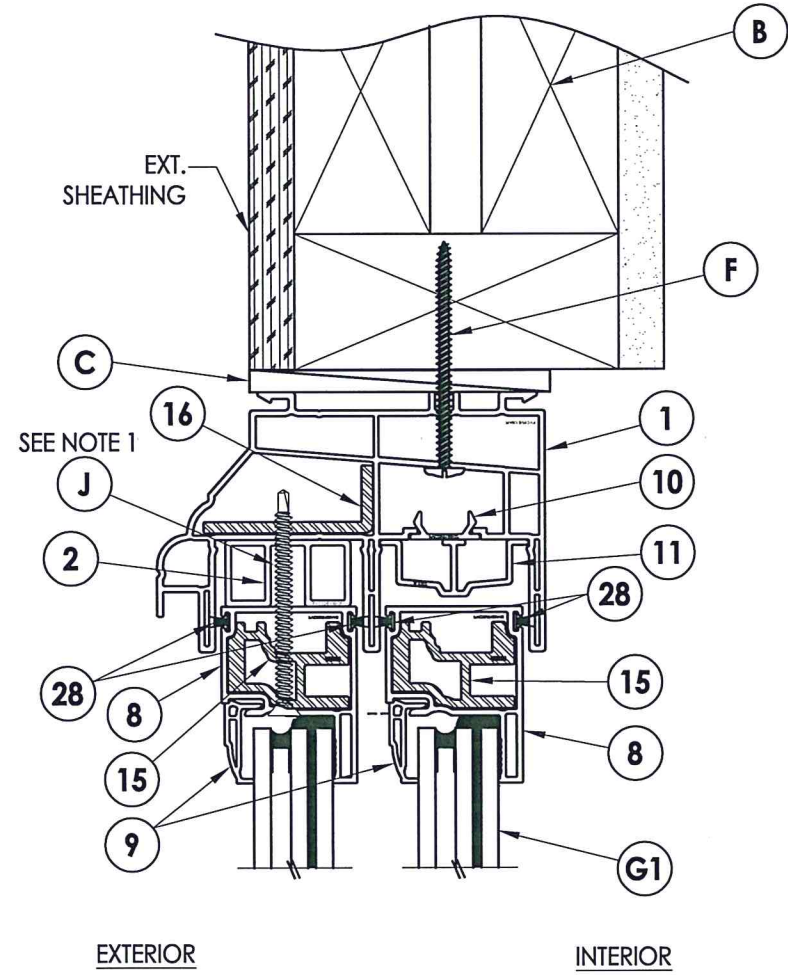


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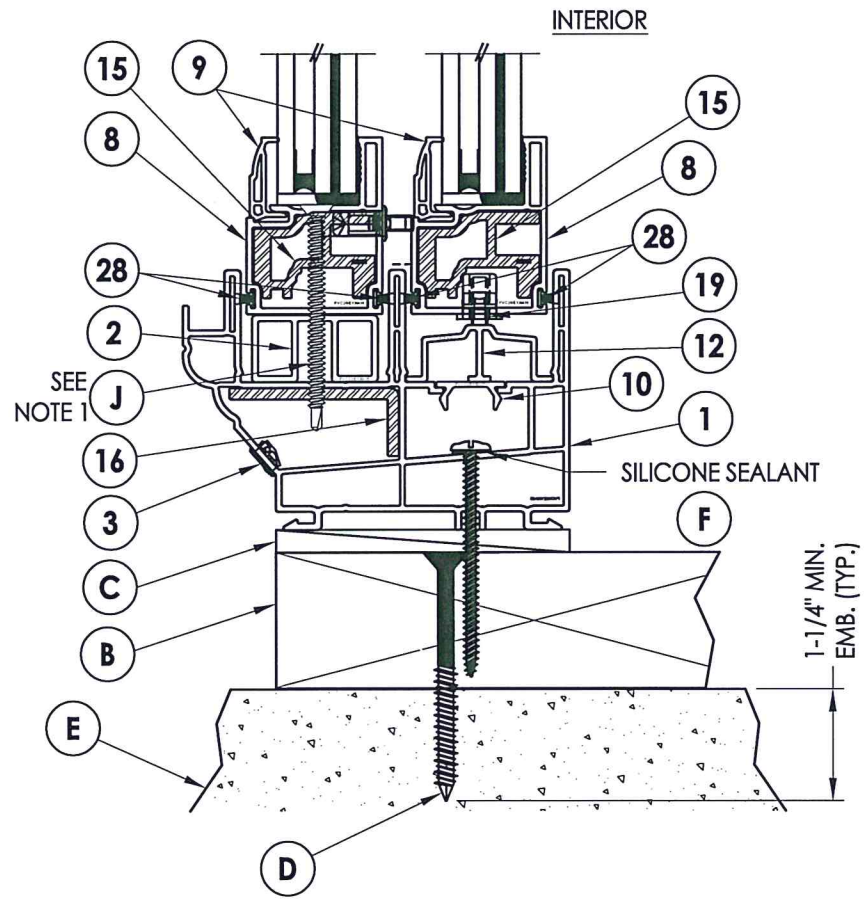
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PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY
1	5/11/21	LFS
REVISIONS		
DATE:	6/26/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4859	
SHEET	2	OF 6

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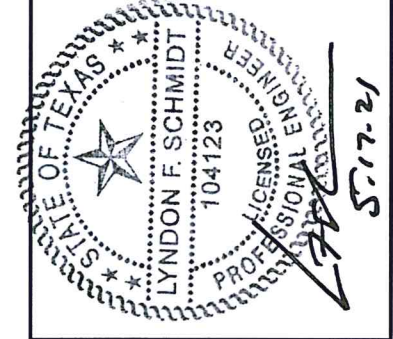


**1** VERTICAL CROSS SECTION  
**3** Shown w/ Stud Framing

NOTE:  
 1. Item #J located at 3" and 4-1/2" from each end and one at the center of sash (5 total).

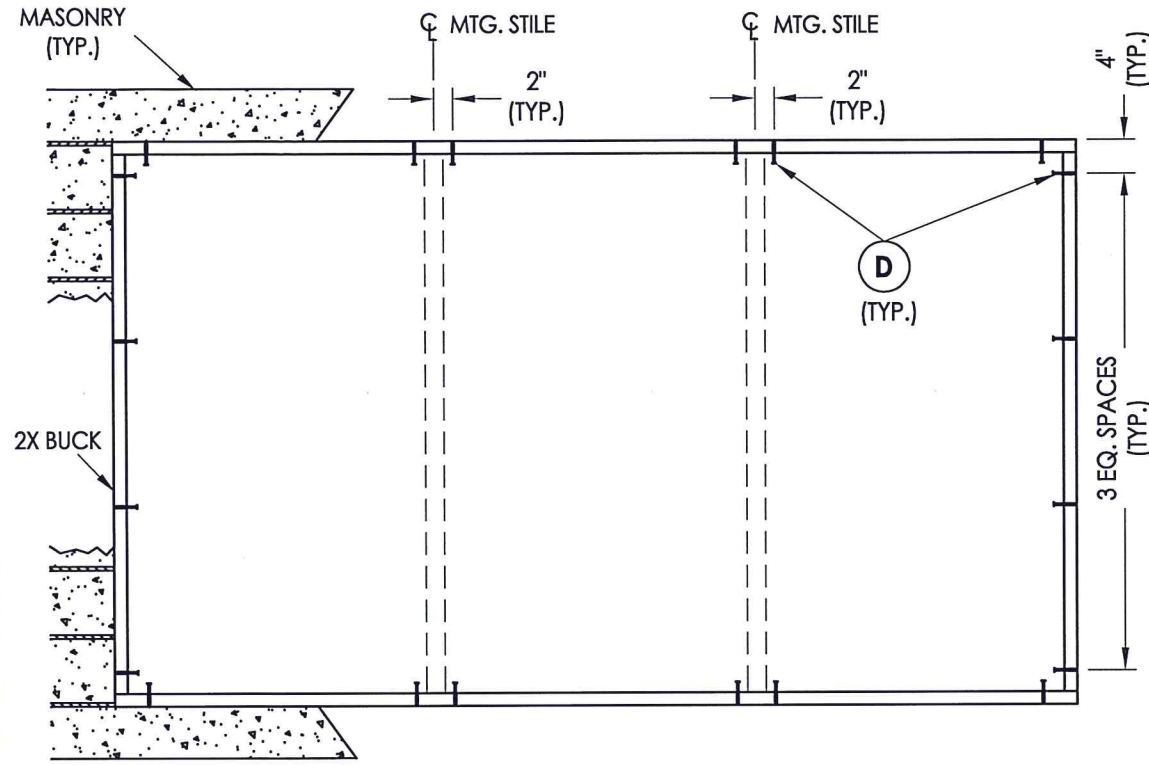


**2** VERTICAL CROSS SECTION  
**3** 2X Buck Construction

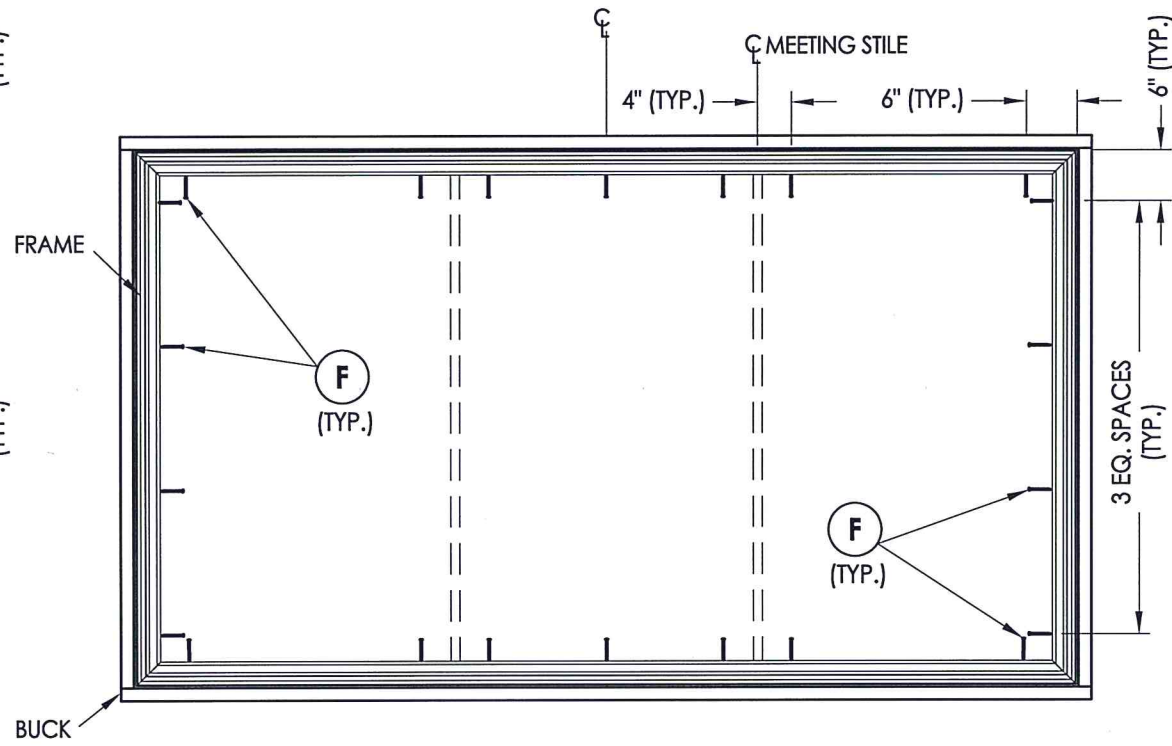


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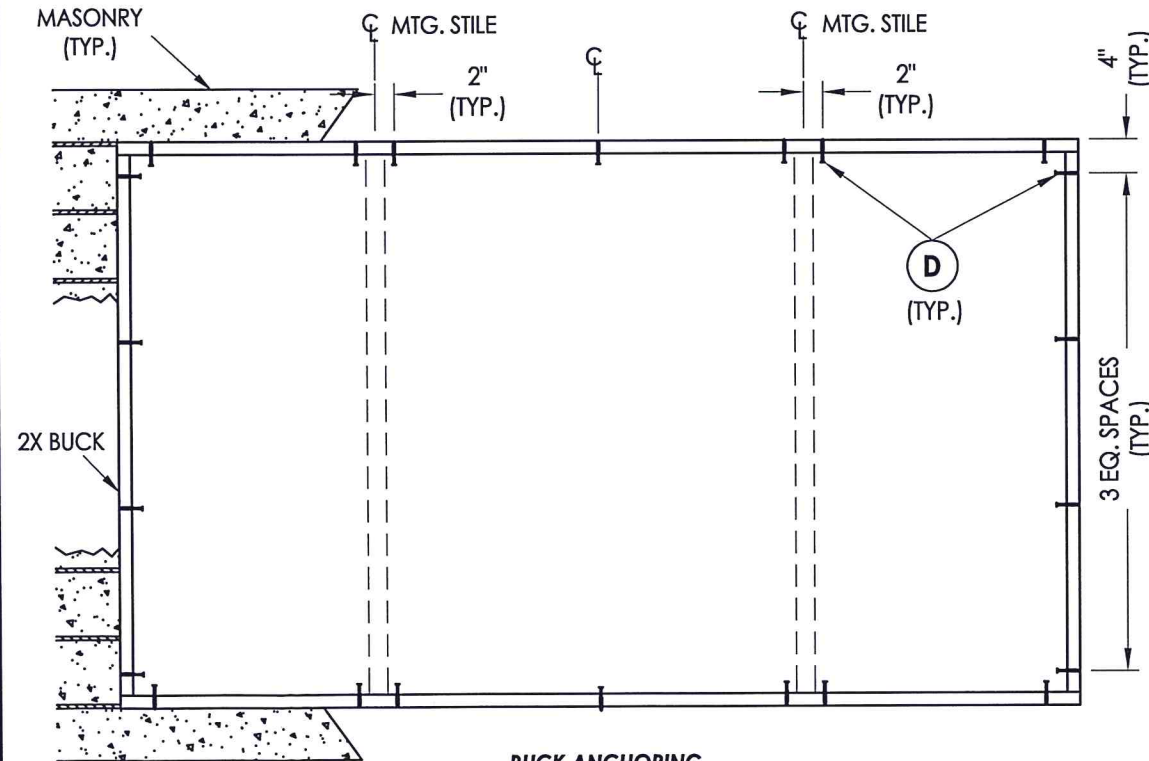
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PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	
NO.	DATE	BY
1	5/11/21	LFS
UPDATE TO 2018 IBC/IRC		
REVISIONS		
DATE:	6/26/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4859	
SHEET	3	OF 6



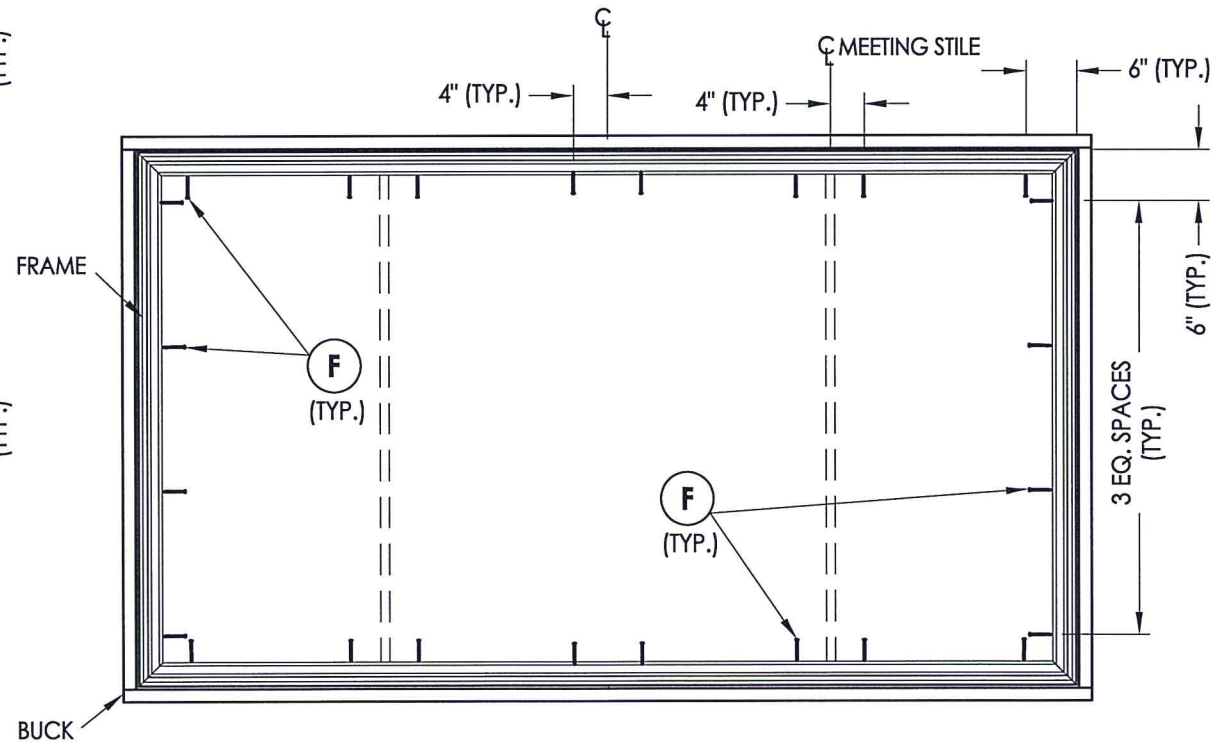
**BUCK ANCHORING**  
1/3-1/3-1/3



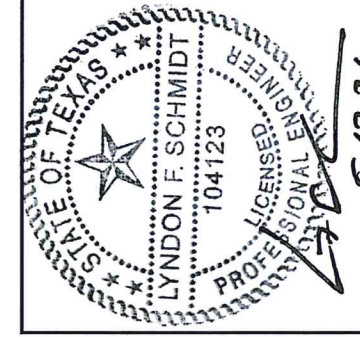
**FRAME ANCHORING**  
1/3-1/3-1/3



**BUCK ANCHORING**  
1/4-1/2-1/4



**FRAME ANCHORING**  
1/4-1/2-1/4



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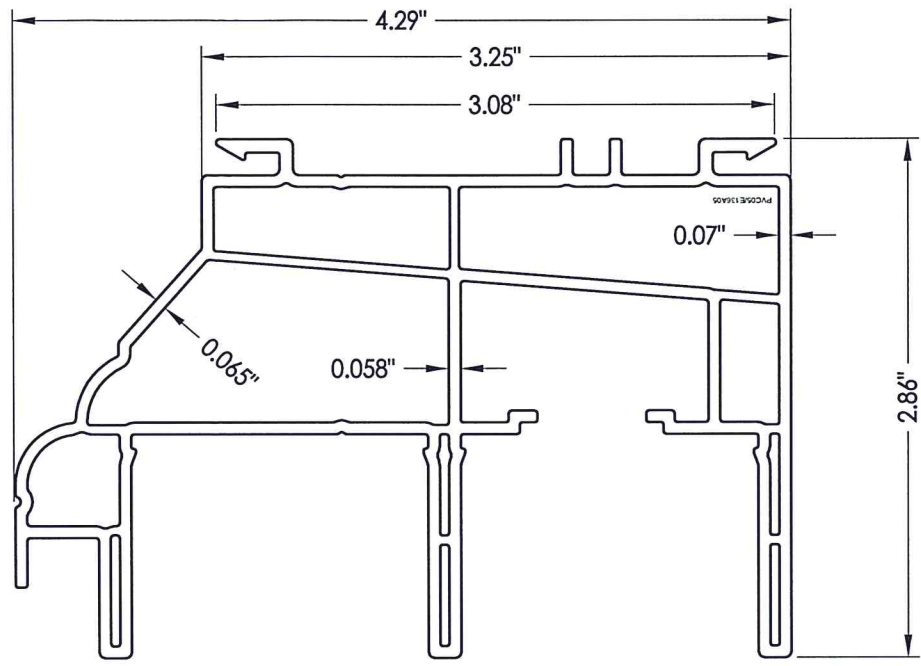
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	SOFT-LITE WINDOWS
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING

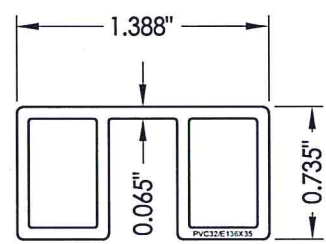
NO.	DATE	REVISIONS
1	5/11/21	UPDATE TO 2018 IBC/IRC
		LFS
		BY

DATE:	6/26/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4859
SHEET	4 OF 6

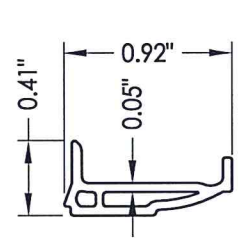
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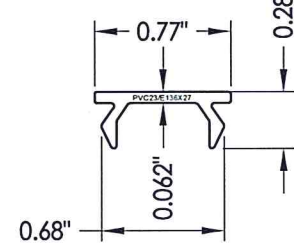
1 FRAME



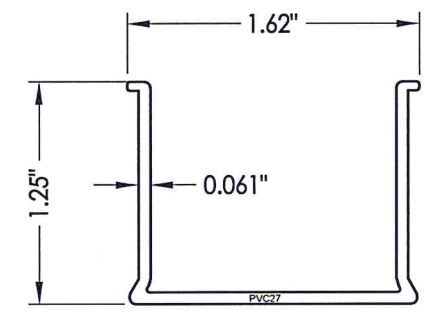
2 HS FIXED PANEL SPACER



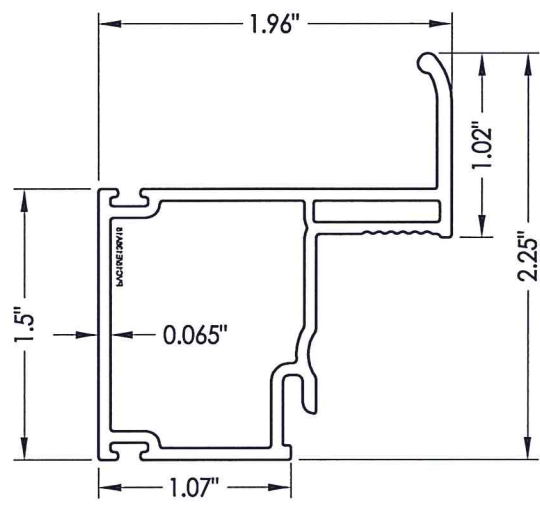
9 GLAZING BEAD



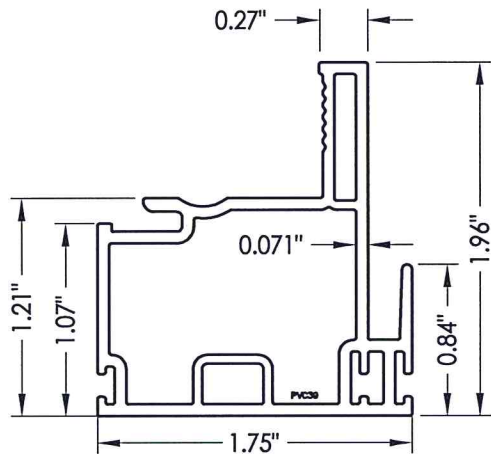
10 COVER



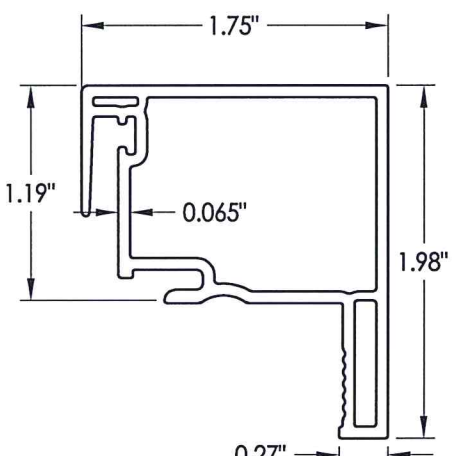
4 FRAME FILLER



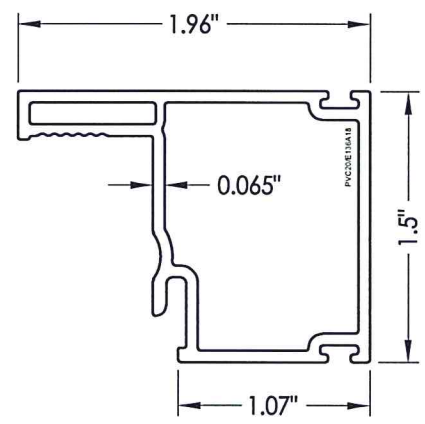
5 HANDLE SASH



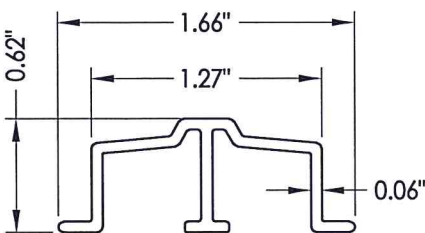
6 KEEPER RAIL



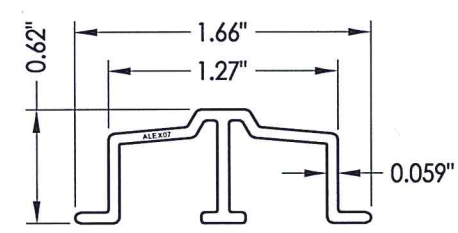
7 LOCK RAIL



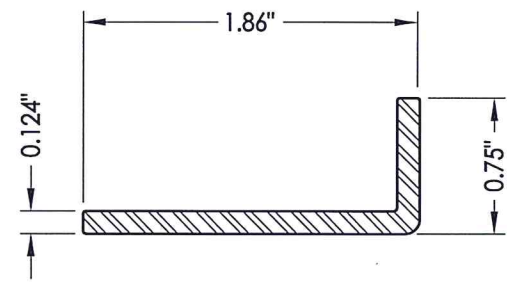
8 MAIN SASH



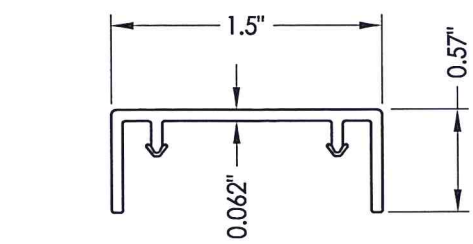
11 ANTLIFT TRACK



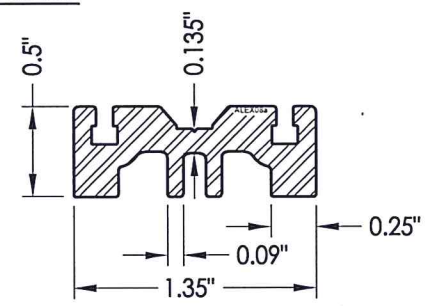
12 SILL ROLLER TRACK



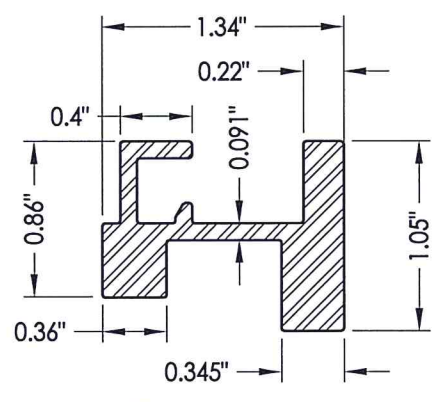
16 REINFORCEMENT



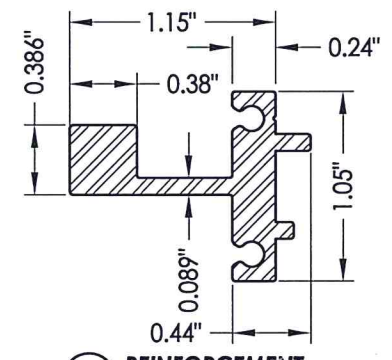
23 PVC COVER FOR HS REINFORCING BAR



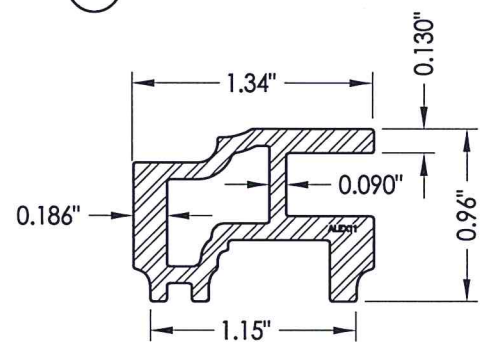
17 REINFORCEMENT



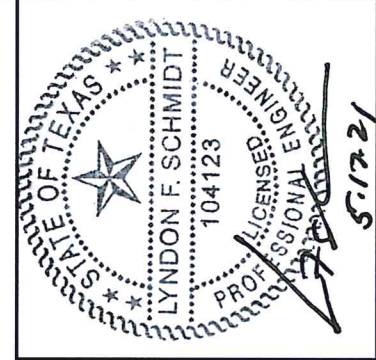
13 REINFORCEMENT



14 REINFORCEMENT



15 REINFORCEMENT



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Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		SOFT-LITE WINDOWS	
PART OR ASSEMBLY:		COMPONENTS	
NO.	DATE	BY	REVISIONS
1	5/11/21	LFS	UPDATE TO 2018 IBC/IRC
DATE: 6/26/18			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4859			
SHEET 5 OF 6			

BILL OF MATERIALS		
ITEM #		MATERIAL
B	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#8-15 X 2-1/2" TRUSS HEAD SMS (1-3/8" MIN. EMBEDMENT)	STEEL
J	#10-16 X 2-1/2" PFH TEK SS	STEEL
1	FRAME*	PVC
2	HS FIXED PANEL SPACER*	PVC
3	WEEP HOLE COVER*	PVC
4	FRAME FILLER*	PVC
5	HANDLE SASH*	PVC
6	KEEPER RAIL*	PVC
7	LOCK RAIL*	PVC
8	MAIN SASH*	PVC
9	GLAZING BEAD*	PVC
10	COVER*	PVC
11	ANTILIFT TRACK*	PVC
12	ROLLER SILL TRACK	ALUM.
13	REINFORCEMENT (6065-T5 ALUM)	ALUM.
14	REINFORCEMENT (6065-T5 ALUM)	ALUM.
15	REINFORCEMENT (6065-T5 ALUM)	ALUM.
16	REINFORCEMENT (6065-T5 ALUM)	ALUM.
17	REINFORCEMENT (6065-T5 ALUM)	ALUM.
18	SPACER	-
19	ROLLER ASSM.	-
20	LOCK	-
21	LOCK KEEPER	SS
22	#7 X 3/4" PFH TEK (LOCK)	SS
23	PVC COVER FOR HS REINFORCING BAR (item #17)	PVC
26	#8 X 1" PPH TEK (KEEPER)	SS
28	WEATHERSTRIP (187-270 TRI-FIN)	-

\* THE APPROVED WHITE RIGID PVC EXTERIOR EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATIONS PROGRAMS FOR RIGID PVC EXTRUSIONS".

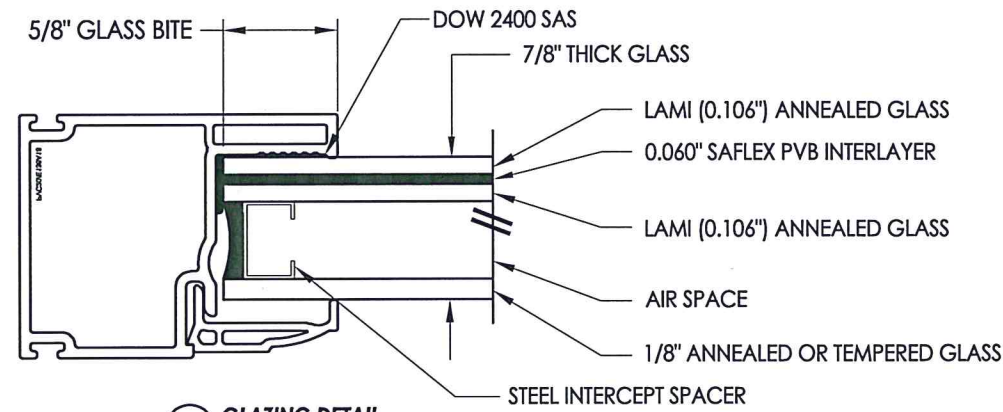
**CONCRETE ANCHOR NOTES:**

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

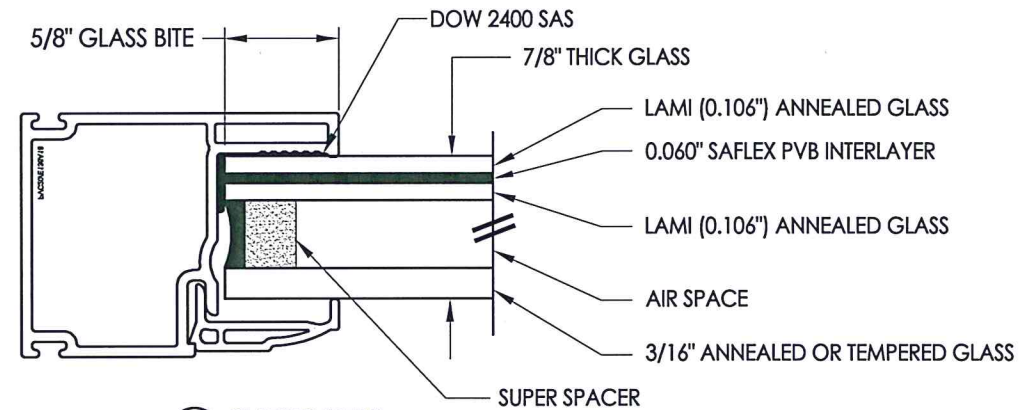
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"

**WOOD SCREW INSTALLATION NOTES:**

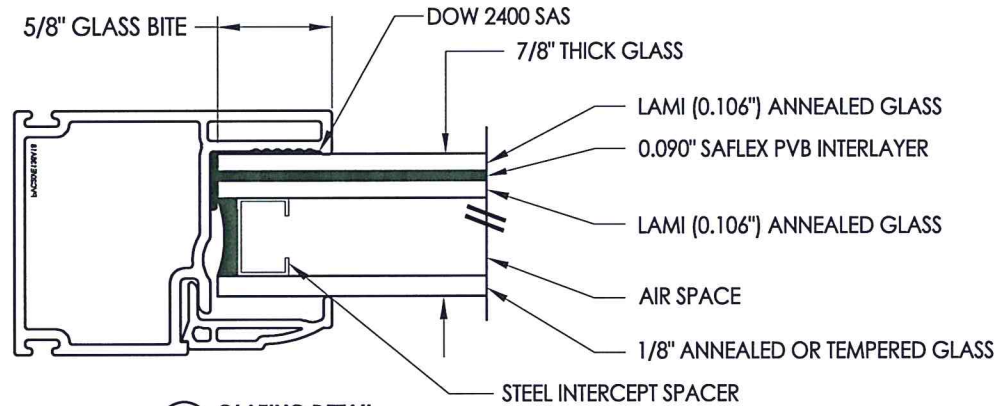
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



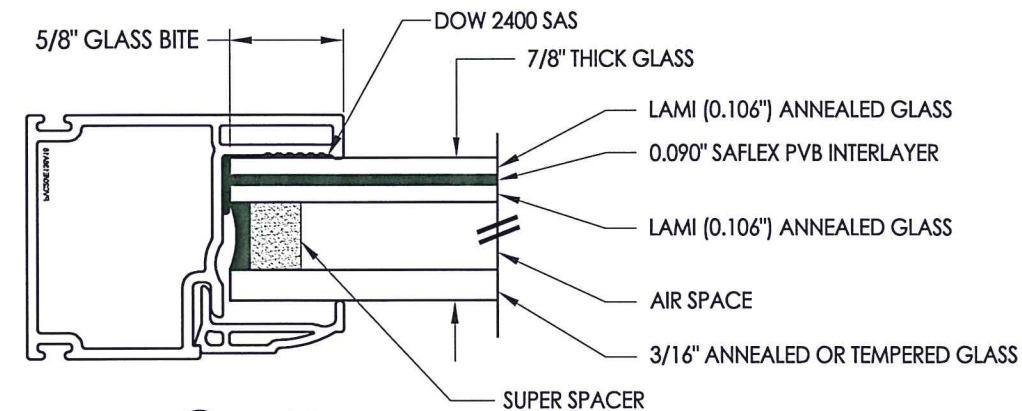
G1 GLAZING DETAIL



G2 GLAZING DETAIL



G3 GLAZING DETAIL



G4 GLAZING DETAIL



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PART OR ASSEMBLY:	BILL OF MATERIALS & GLAZING DETAILS
DATE:	6/26/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4859
SHEET	6 OF 6