

# STEVE'S & SONS

203 Humble Ave.  
San Antonio, TX 78225

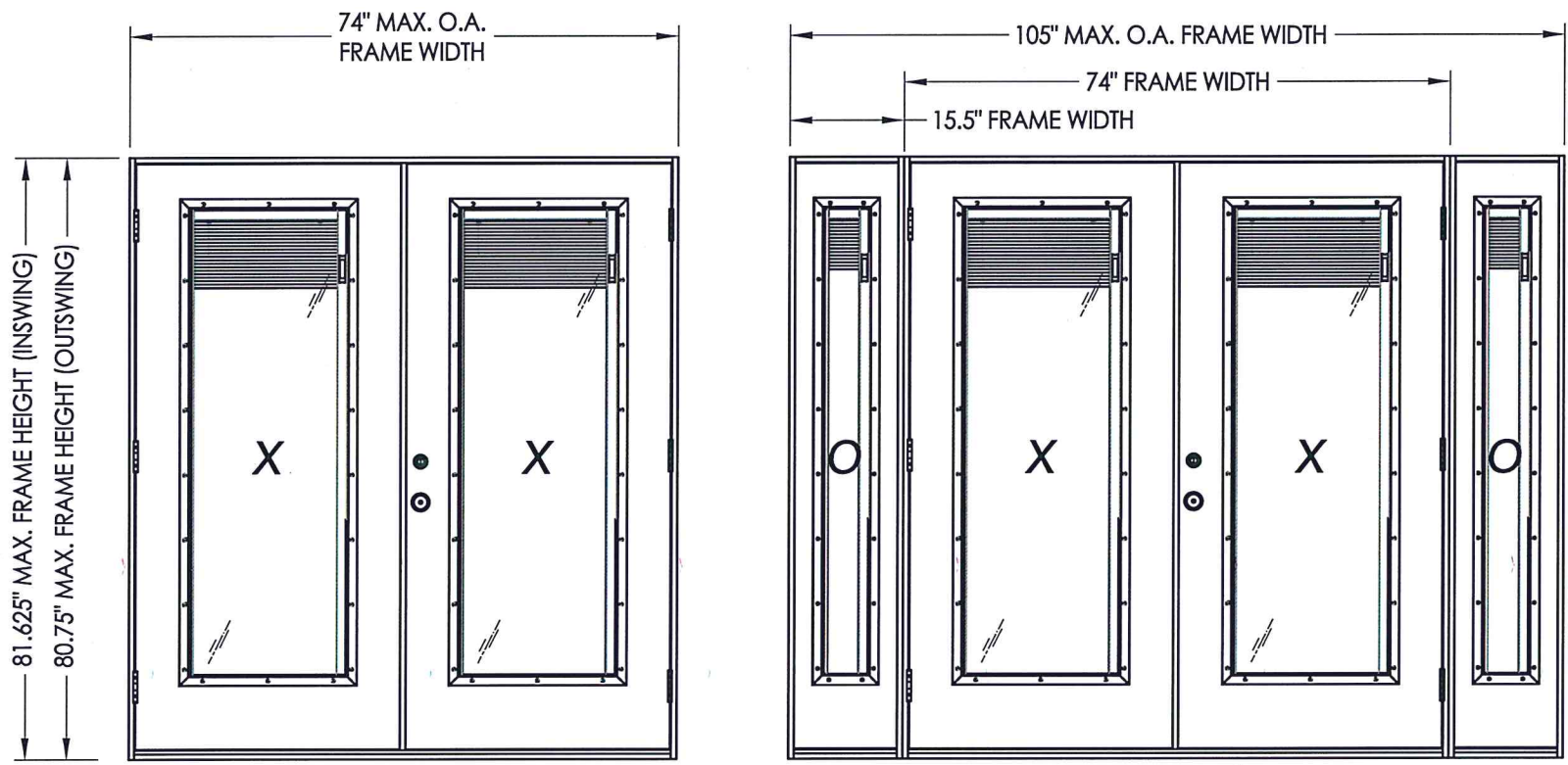
## GLAZED STEEL DOUBLE DOOR w/ or w/out SIDELITE(S) "NON-IMPACT" IN SWING / OUT SWING



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

RW BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vaicico FL 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852



### EVALUATED FOR USE IN THE STATE OF TEXAS

The Steel Door system 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 wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.1.2 of the IBC.
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.

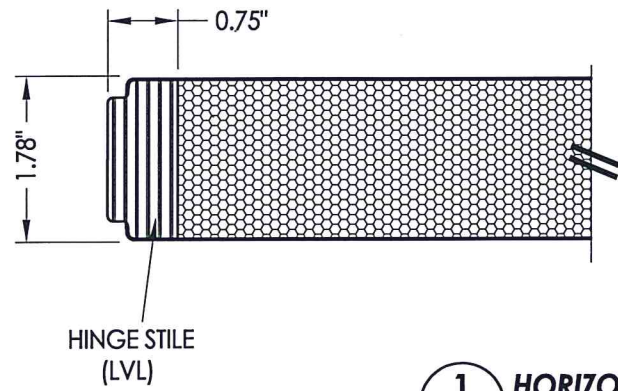
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2	Door panel details
3	Lite frame details
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring
8	Bill of materials & components

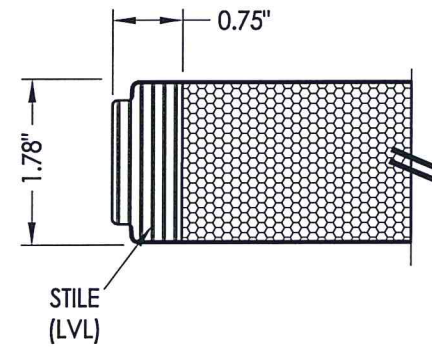
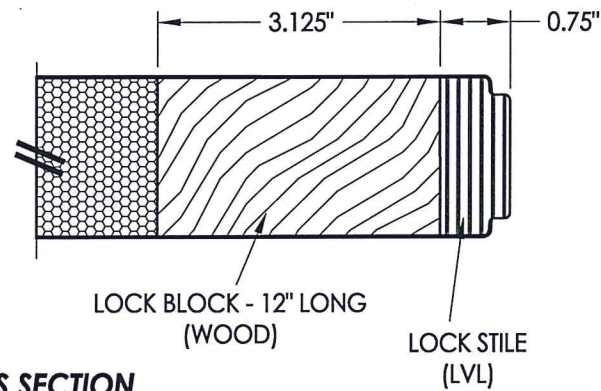
CONFIGURATION	MAX. FRAME DIMENSION	ASTRAGAL	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.0" x 81.625"	COLUMBIA	+40.0	-40.0	N/A	N/A
		WORLDWIDE	+47.0	-47.0	+47.0	-47.0
OXXO	105.0" x 81.625"	COLUMBIA	+40.0	-40.0	N/A	N/A
		WORLDWIDE	+47.0	-47.0	+47.0	-47.0

N/A = NOT APPLICABLE

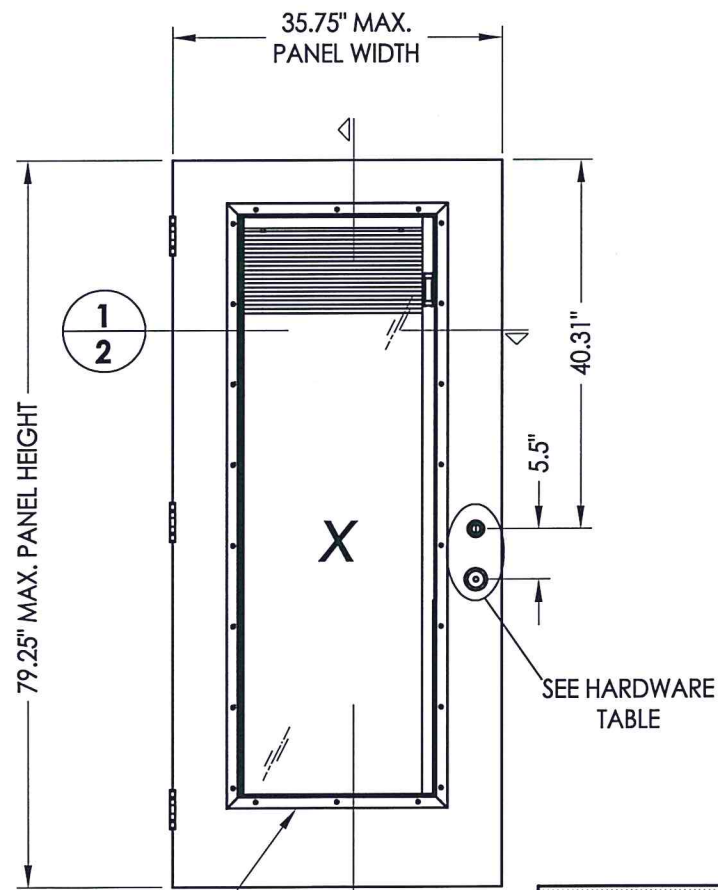
PRODUCT:	STEVE'S & SONS
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE:	5/09/18
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4833
SHEET	1 OF 8



**1**  
**2** HORIZONTAL CROSS SECTION



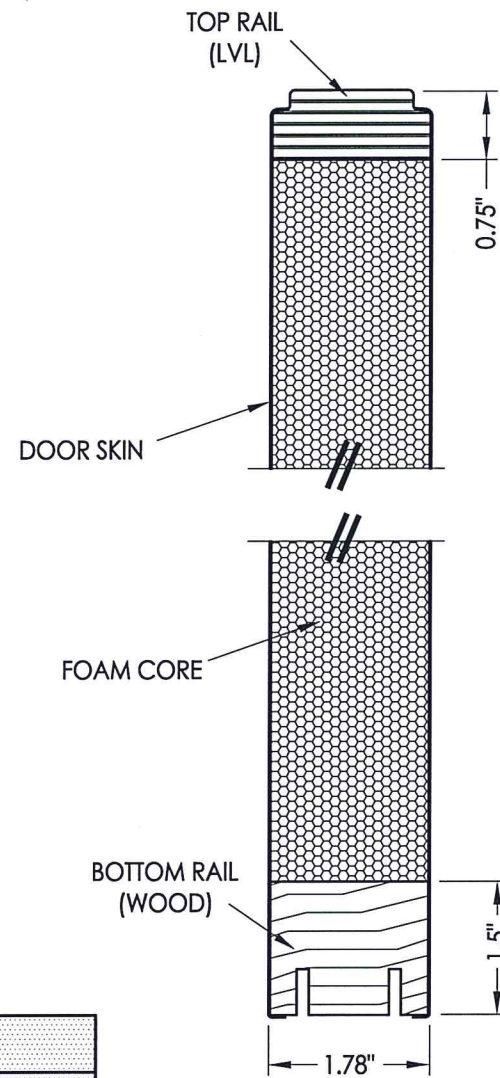
**3**  
**2** HORIZONTAL CROSS SECTION



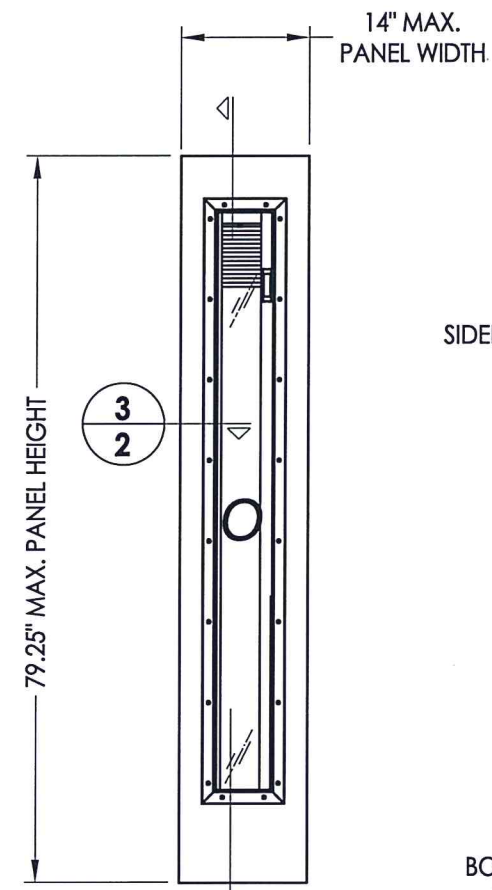
**40** DOOR PANEL  
Steel

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: KWIKSET (GR. 2)
	DEADBOLT: 660 SERIES (GR. 3)
SCHLAGE	KNOB: F SERIES (GR. 2)
	DEADBOLT: B60 SERIES (GR. 1)

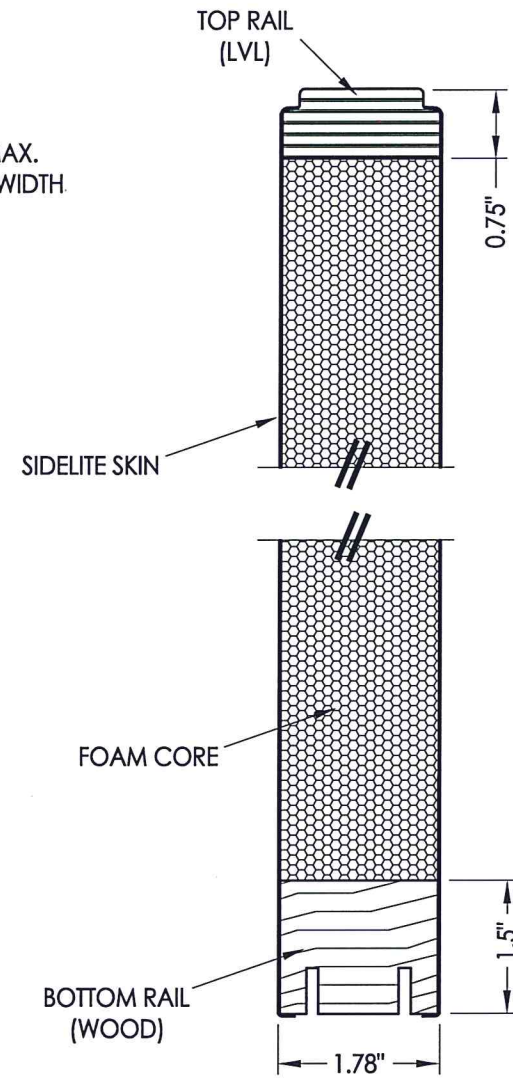
DOOR/SIDELITE SKIN: 0.022" MIN. THK. STEEL  
CORE MATERIAL: POLYSTYRENE FOAM



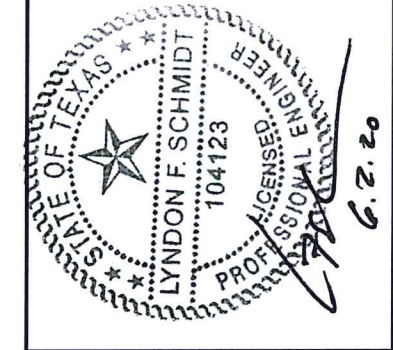
**2**  
**2** VERTICAL CROSS SECTION



**50** SIDELITE PANEL  
Steel



**4**  
**2** VERTICAL CROSS SECTION

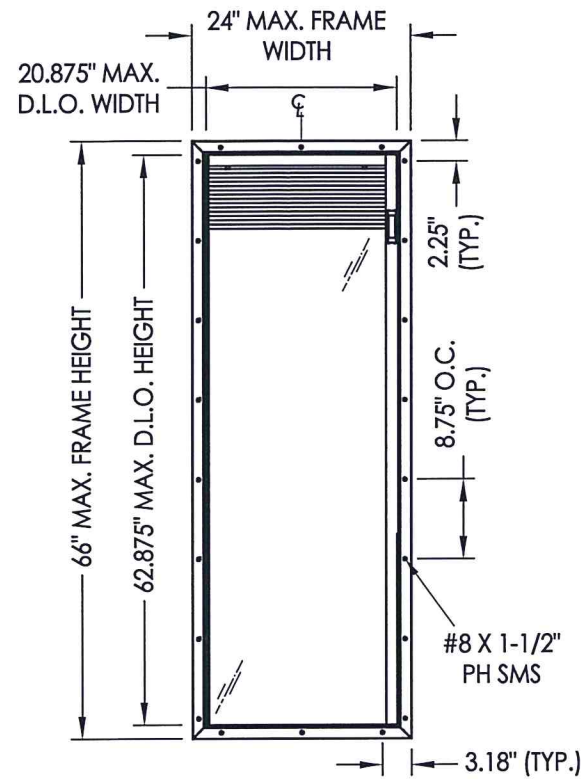


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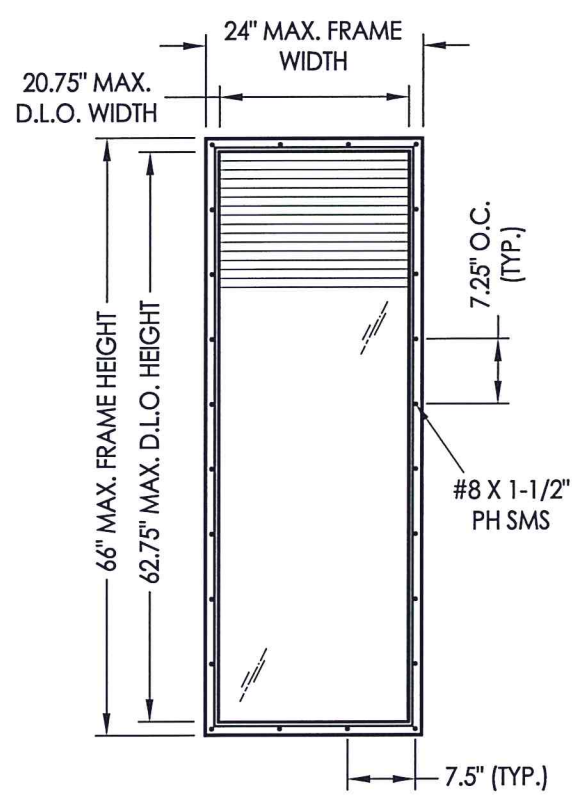
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL, 33595  
Phone No.: 813.659.9197

CERTIFICATE OF REGISTRATION # F-11852

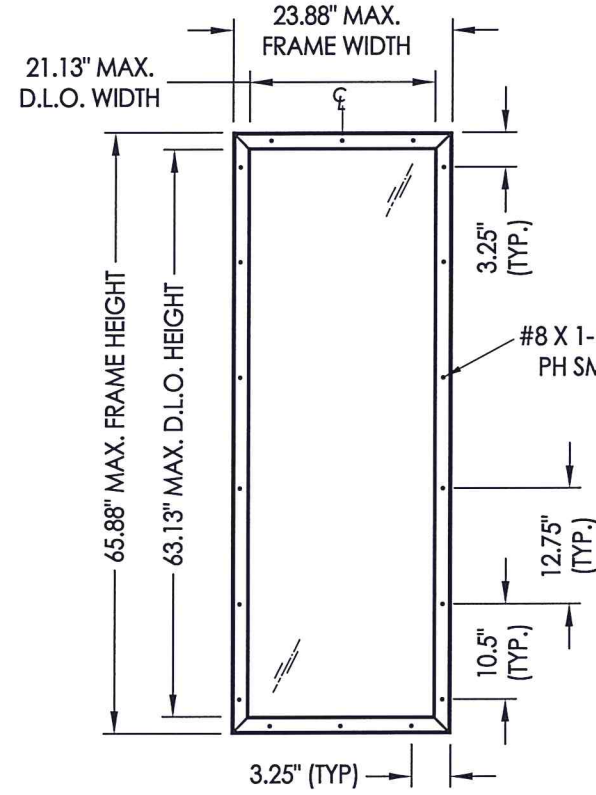
PRODUCT:	STEVES & SONS	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	REVISIONS
1	6/02/20	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY
DATE: 5/09/18		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: TX-4833		
SHEET 2 OF 8		



**EVOLVE LITE FRAME (ODL)**  
(w/ BLINDS BETWEEN GLASS)

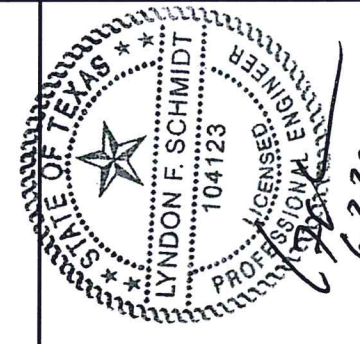


**TRIMLITE FRAME**  
(w/ BLINDS BETWEEN GLASS)



**ODL LITE FRAME**

**NOTE:**  
DOOR PANEL LITE FRAMES (36" NOMINAL) ARE SHOWN. SIDELITE LITE FRAMES (14" NOMINAL) ARE SIMILAR w/ ONLY TWO (2) INSTALLATION SCREWS @ TOP & BOTTOM.



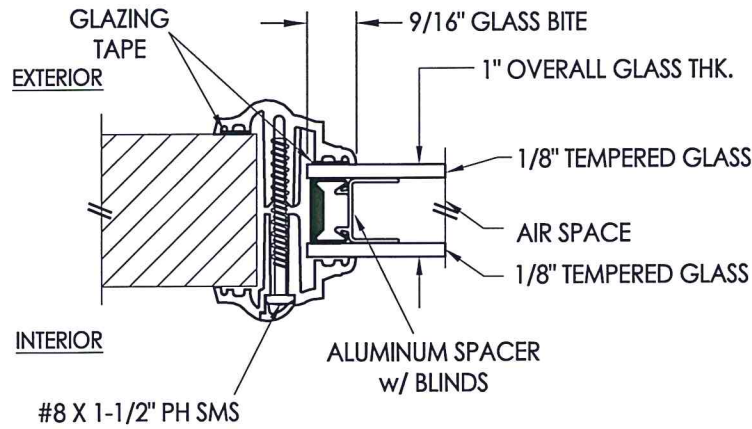
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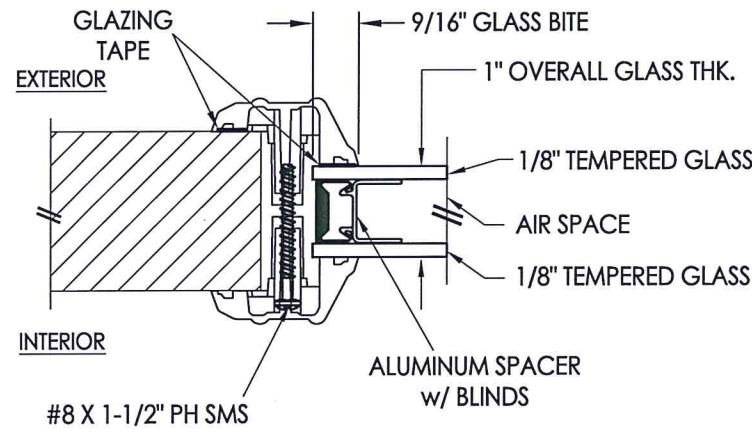
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STEVES & SONS

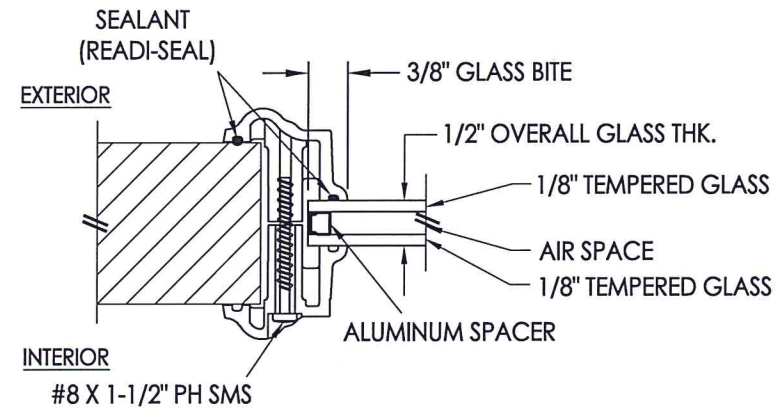
PART OR ASSEMBLY: LITE FRAME DETAILS



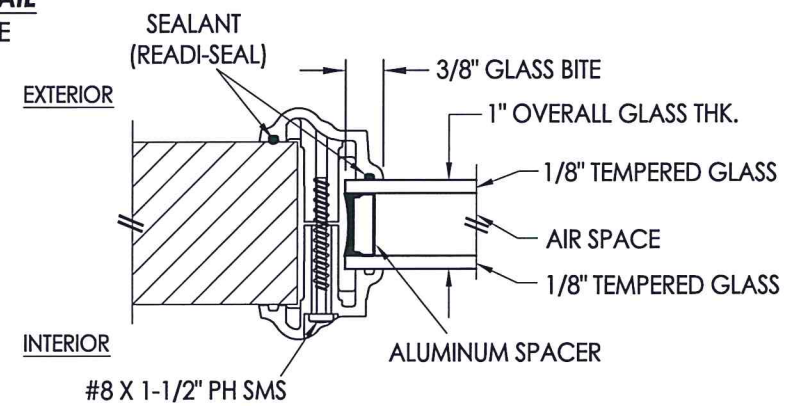
**G1 GLAZING DETAIL**  
EVOLVE LITE FRAME



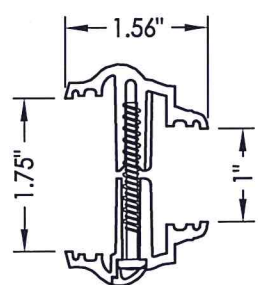
**G2 GLAZING DETAIL**  
TRIMLITE FRAME



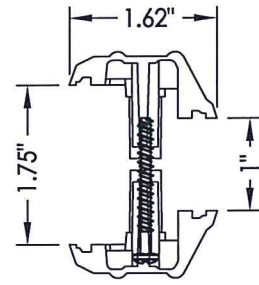
**G3 GLAZING DETAIL**  
ODL LITE FRAME



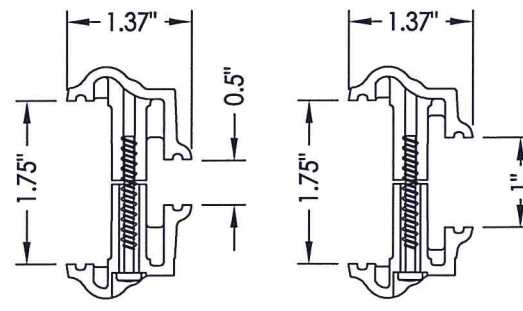
**G4 GLAZING DETAIL**  
ODL LITE FRAME



**EVOLVE LITE FRAME (1\"/>**



**TRIMLITE FRAME (1\"/>**



**ODL LITE FRAME (1/2\"/>**

REVISIONS	
NO.	DATE
1	6/02/20
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	LFS
	BY

DATE: 5/09/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4833  
SHEET 3 OF 8

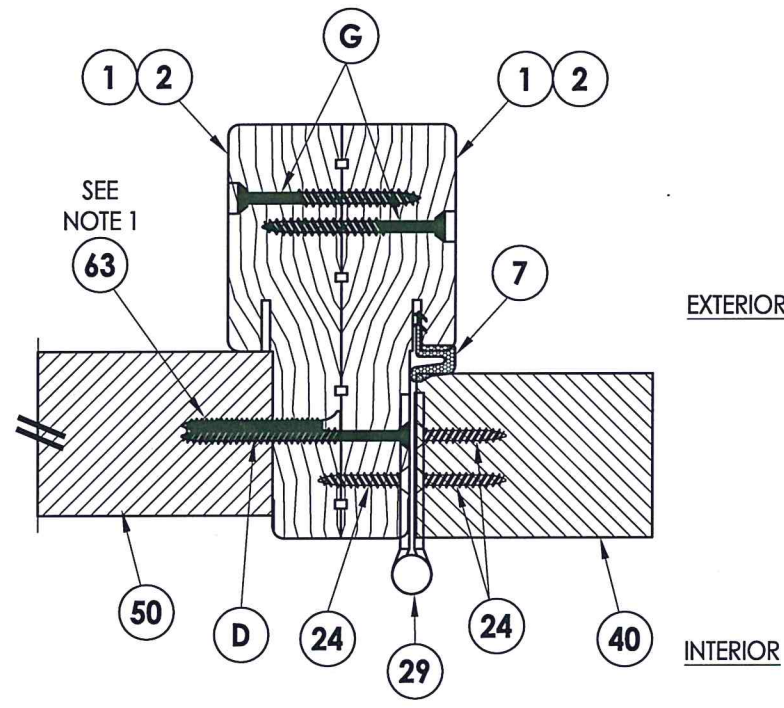




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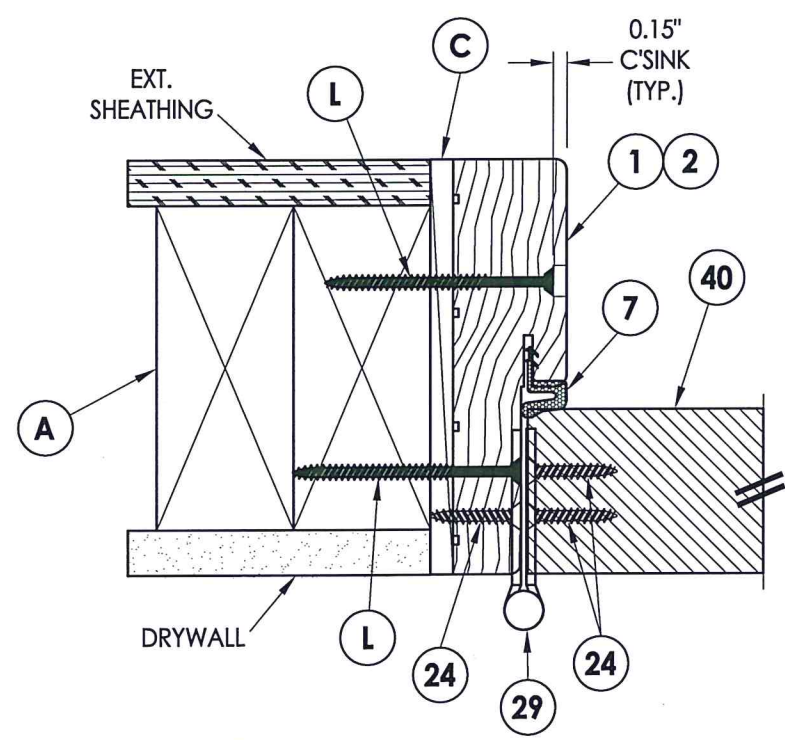
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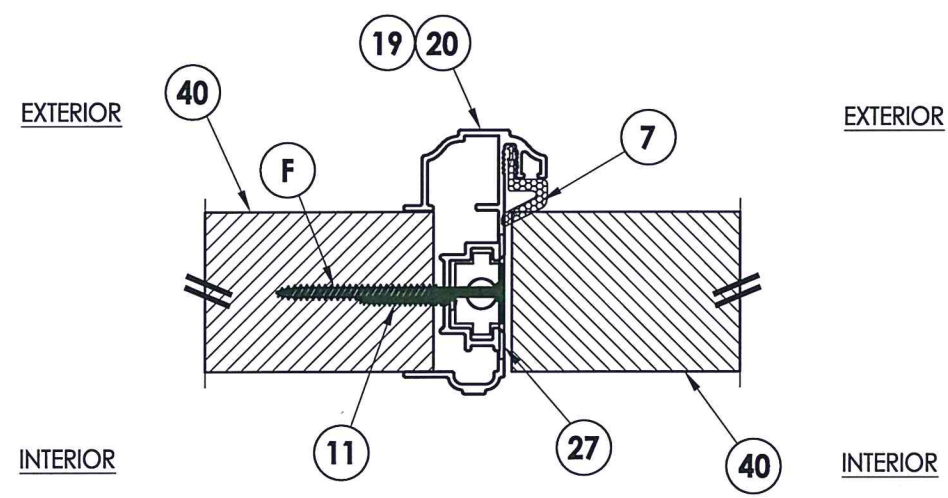


**NOTE:**  
1. Item #63 located 6" from each end plus 3 more equally spaced (5 total).

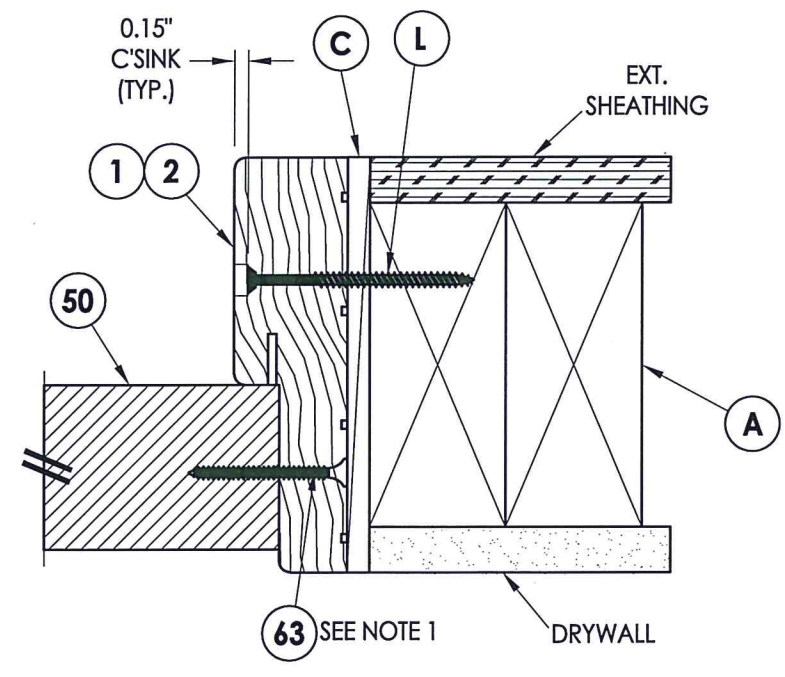
**4** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)



**1** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)

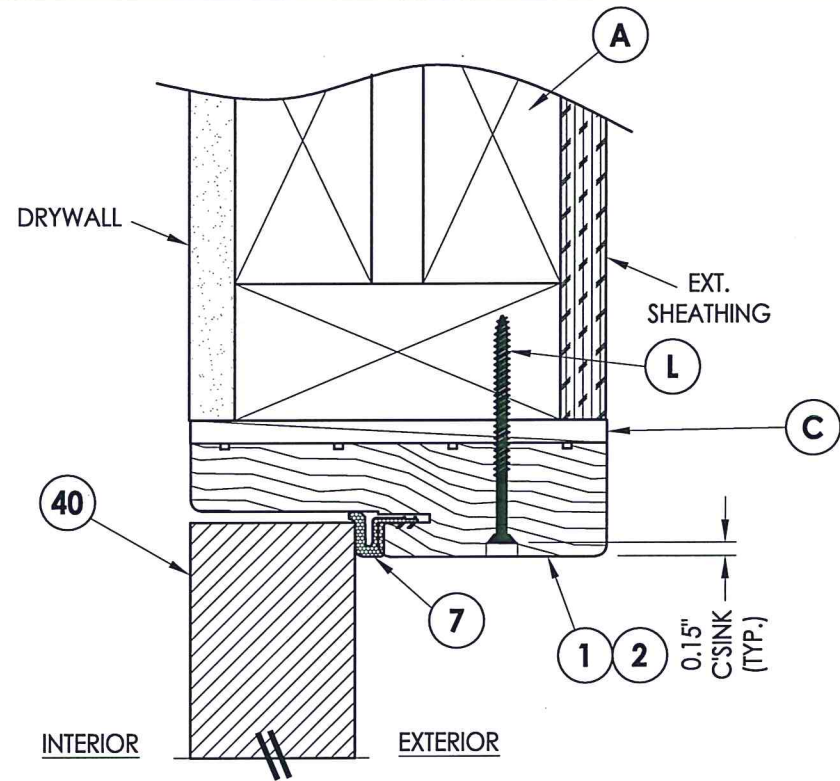


**2** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)

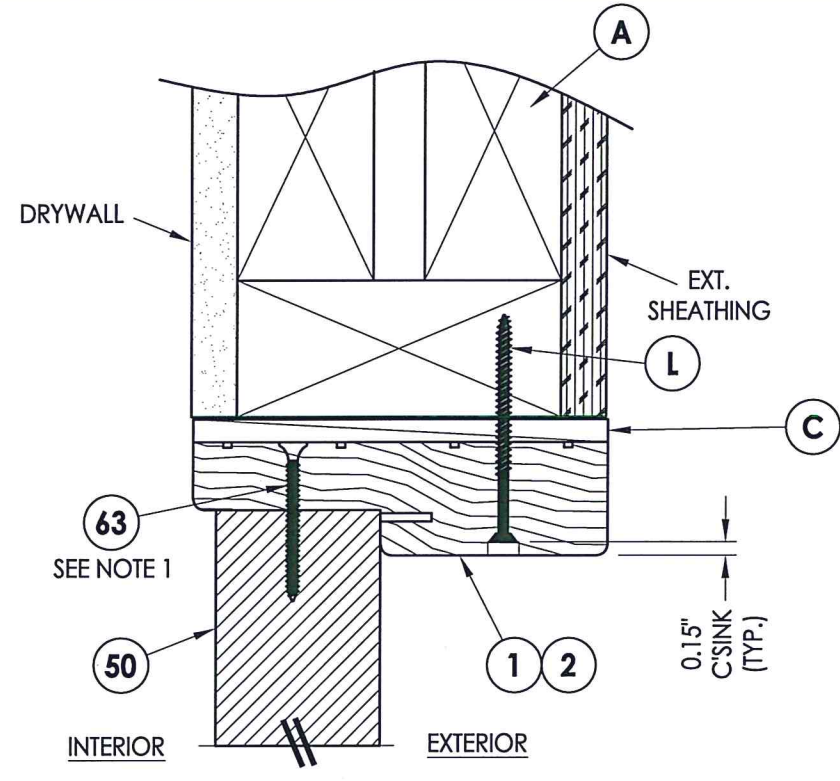


**3** HORIZONTAL CROSS SECTION  
**5** Inswing shown (Outswing similar)

PRODUCT:	STEVES & SONS						
PART OR ASSEMBLY:	ELEVATION & HORIZONTAL CROSS SECTION						
DATE:	5/09/18						
SCALE:	N.T.S.						
DWG. BY:	JK						
CHK. BY:	LFS						
DRAWING NO.:	TX-4833						
SHEET	5 OF 8						
NO.	1	DATE	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS	BY	
REVISIONS							

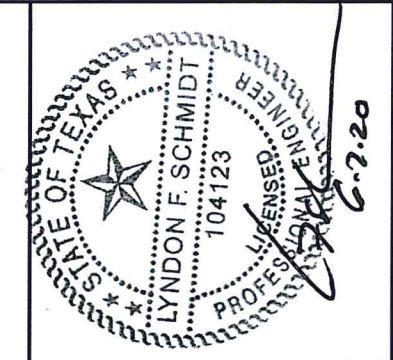


**1** VERTICAL CROSS SECTION  
6 Inswing shown (Outswing similar)



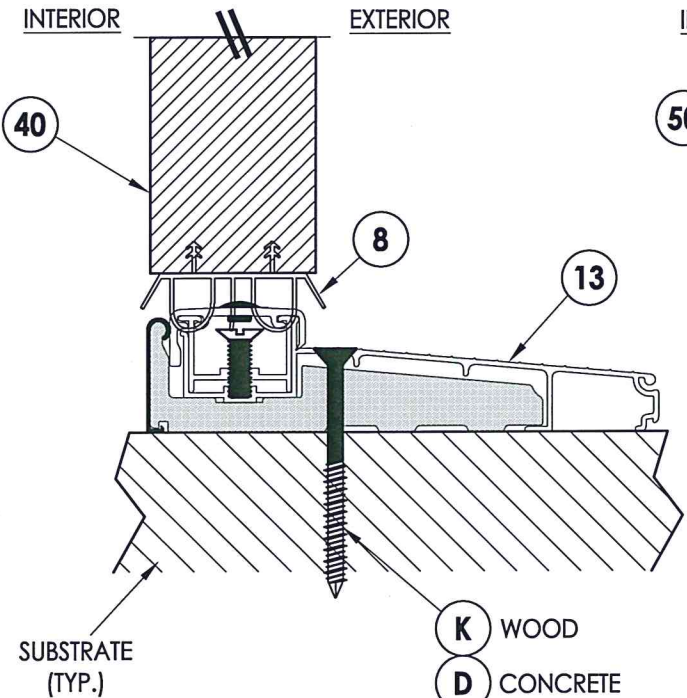
**2** VERTICAL CROSS SECTION  
6 Inswing shown (Outswing similar)

NOTE:  
1. Item #63 located 3" from each end (2 total).

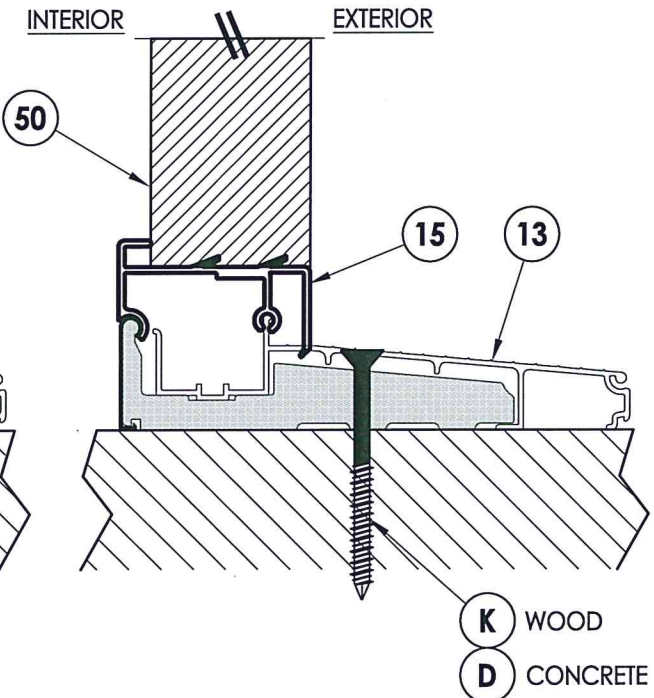


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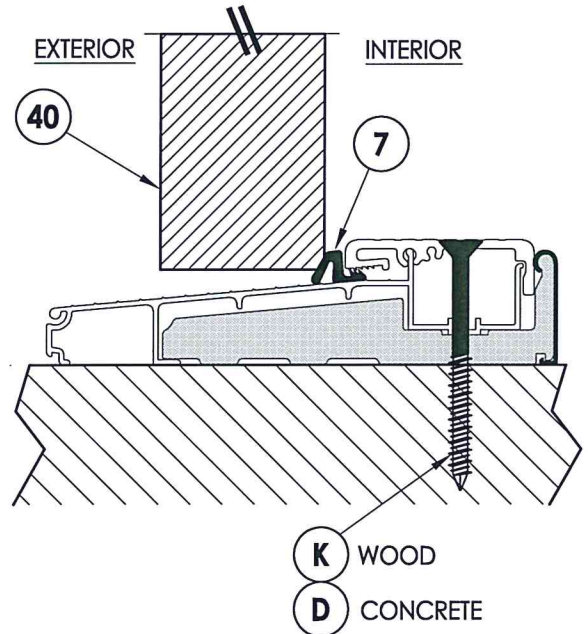
PRODUCT: STEVES & SONS  
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS



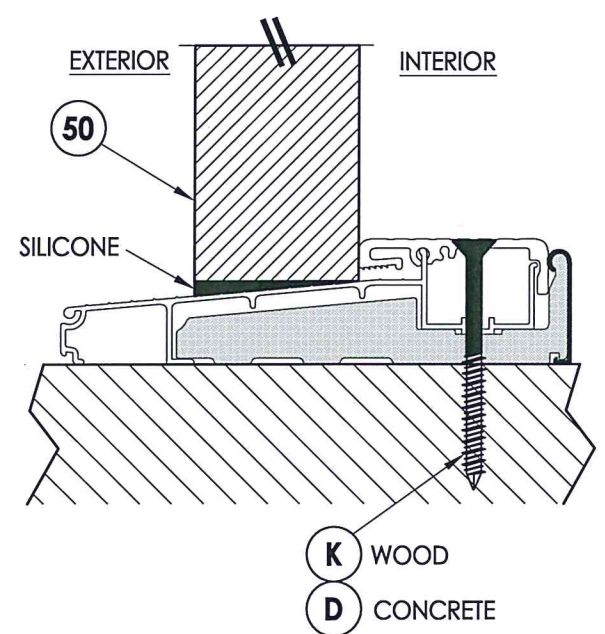
**3** VERTICAL CROSS SECTION  
6 Inswing sill



**4** VERTICAL CROSS SECTION  
6 Inswing sill



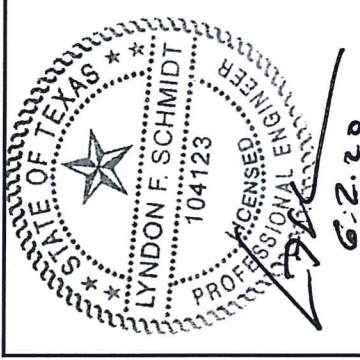
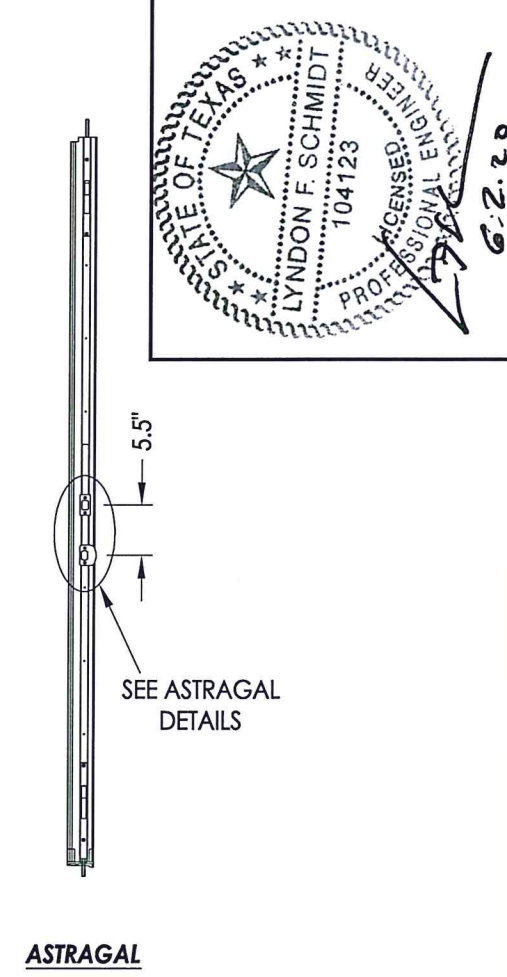
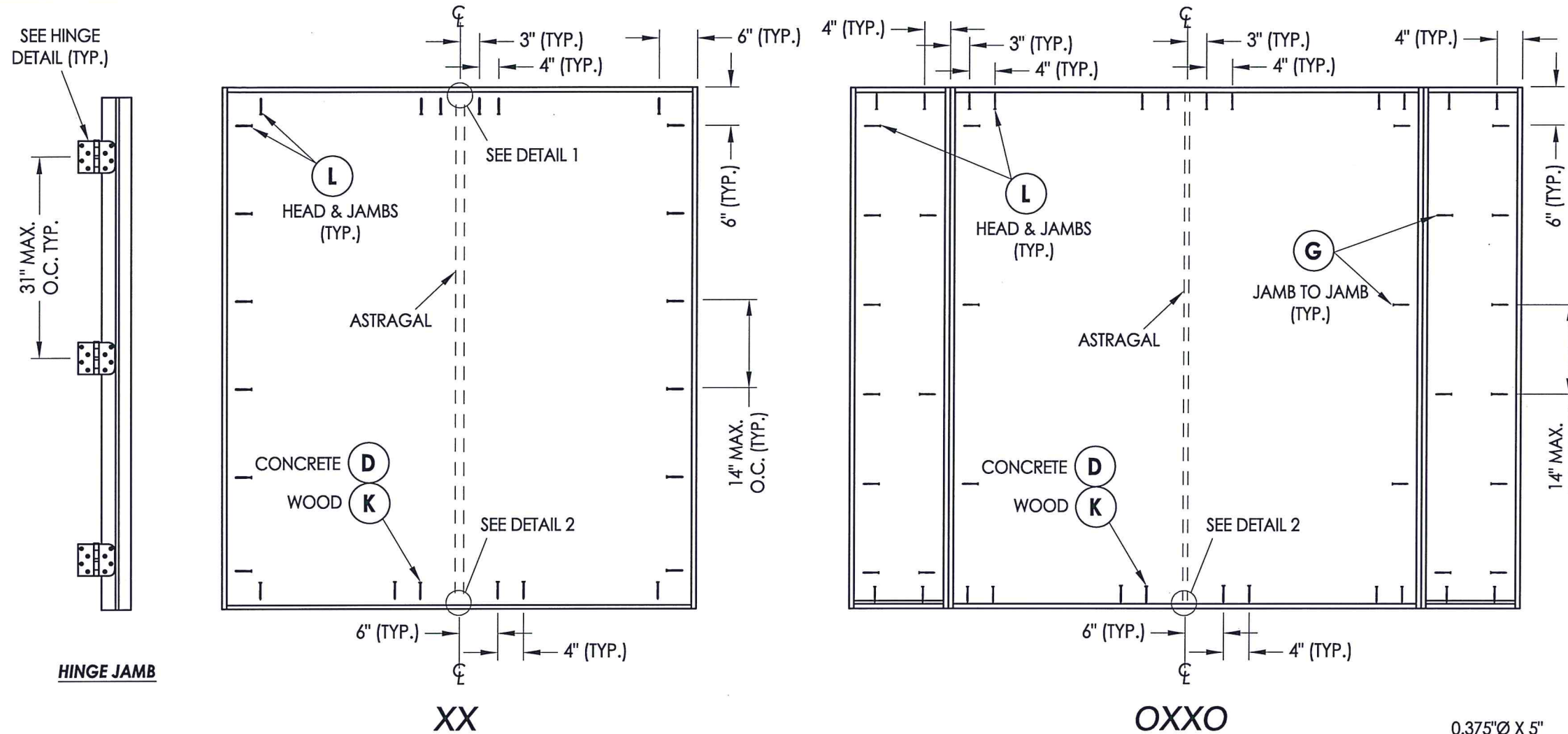
**5** VERTICAL CROSS SECTION  
6 Outswing Sill



**6** VERTICAL CROSS SECTION  
6 Outswing Sill

NO.	DATE	DESCRIPTION	BY
1	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 5/09/18  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4833  
SHEET 6 OF 8

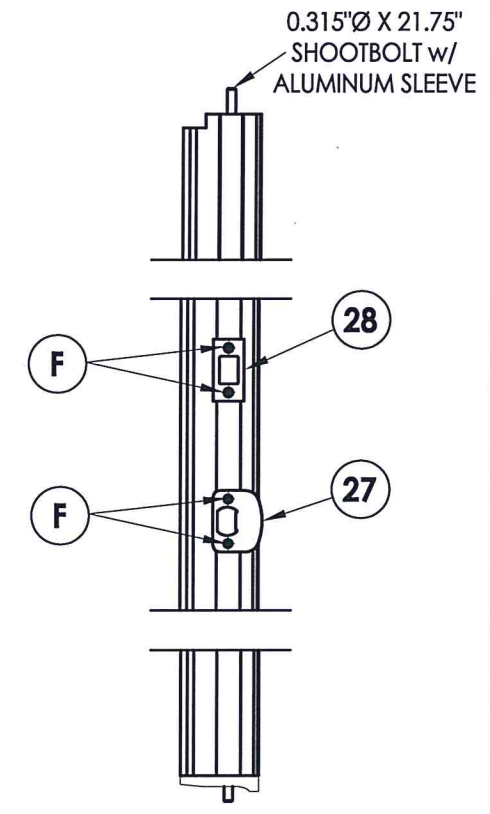
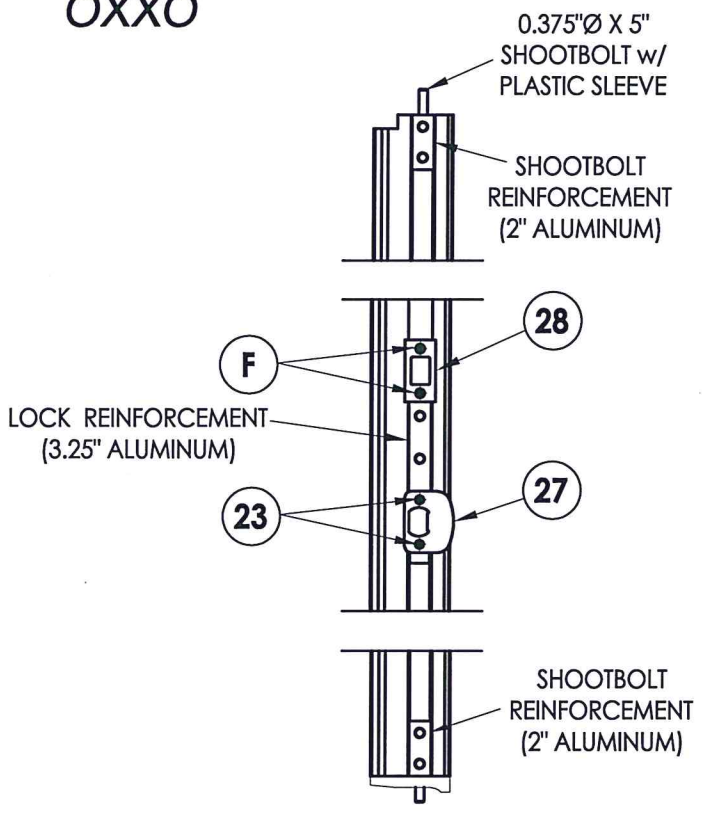
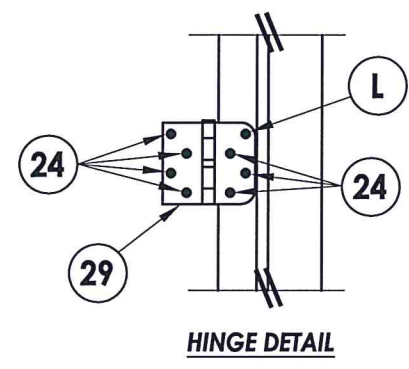
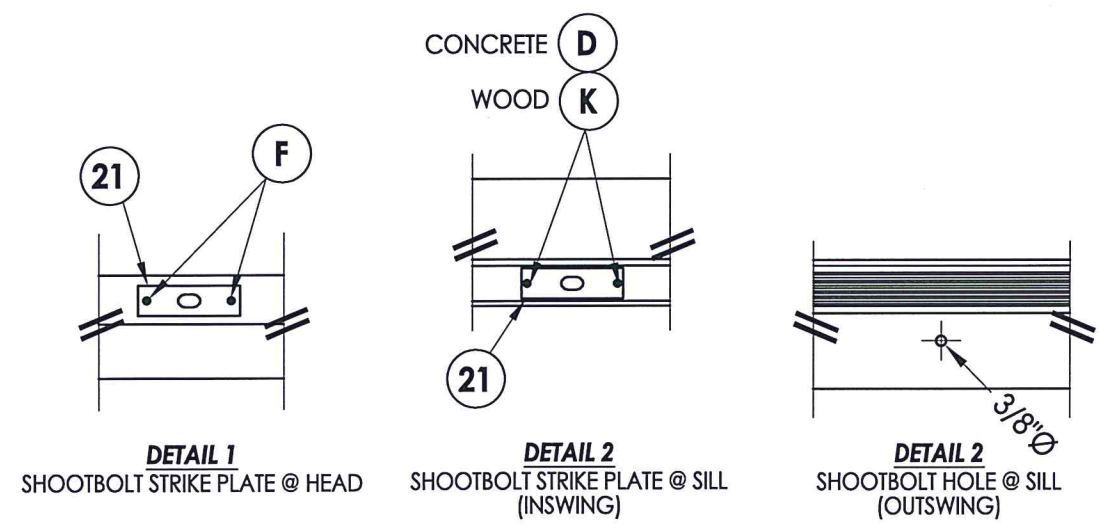


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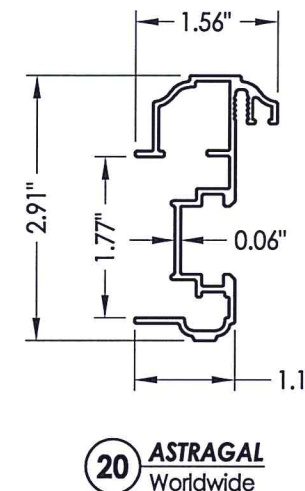
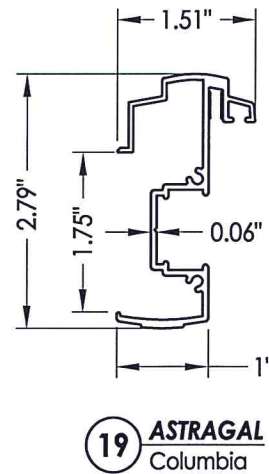
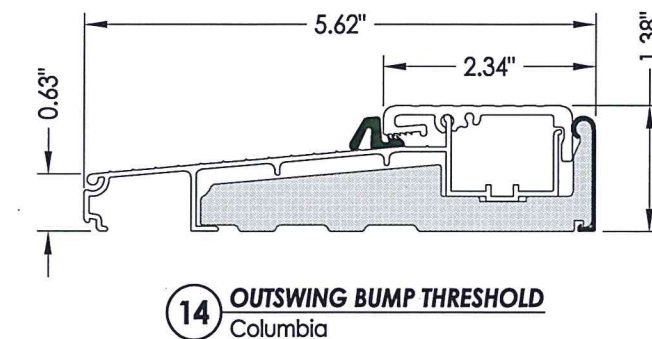
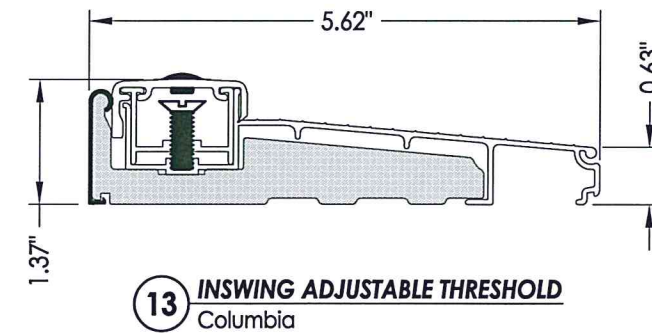
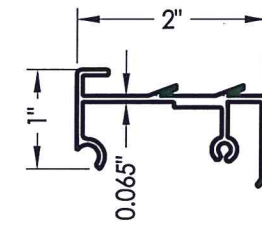
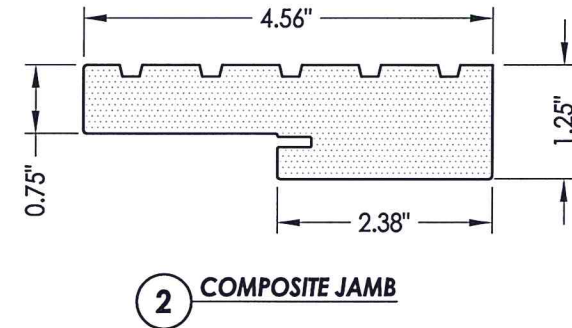
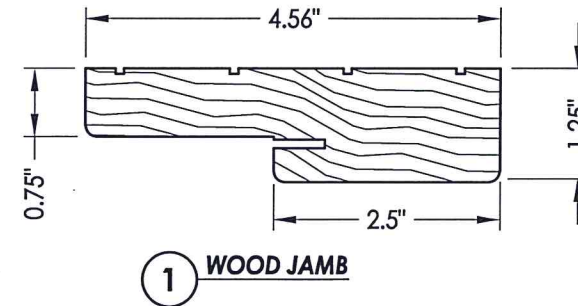
**FRAME ANCHORING**



PRODUCT:	STEVES & SONS	
PART OR ASSEMBLY:	FRAME ANCHORING	
NO.	DATE	BY
1	6/02/20	LFS
UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	5/09/18	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4833	
SHEET	7	OF 8

**BILL OF MATERIALS**

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" Ø PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#8 X 2-1/2" PFH WS	STEEL
G	#8 X 2" PFH WS	STEEL
K	#10 PFH WS (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WS (1.15" MIN. EMBEDMENT)	STEEL
1	WOOD JAMB (FINGER-JOINT PINE - SG >= 0.42)	WOOD
2	COMPOSITE JAMB (WORLDWIDE 4EVER JAMB)	COMP
7	WEATHERSTRIP (Q-LON)	FOAM
8	DOOR BOTTOM SWEEP	PVC
11	#8 X 1" PH SMS	STEEL
13	INSWING ADJUSTABLE THRESHOLD	ALUM/ COMP
14	OUTSWING BUMP THRESHOLD	ALUM/ COMP
15	INSWING SIDELITE SPACER	PVC
19	ASTRAGAL (COLUMBIA)	ALUM
20	ASTRAGAL (WORLDWIDE)	ALUM
21	SHOOTBOLT STRIKE PLATE	STEEL
23	10-24 X 3/8" FH MACHINE SCREW	STEEL
24	#10 X 1" PFH WS	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	STEEL
50	SIDELITE PANEL	STEEL
63	#6 X 1-5/8" DRWALL SCREW	STEEL



**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"	1-3/4"	2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	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.



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: STEVES & SONS

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	DESCRIPTION	BY
1	6/02/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 5/09/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4833

SHEET 8 OF 8