

# THERMA-TRU® DOORS

Fiber-Classic® & Smooth-Star®

## "VENTED" SIDELITES W/ OPAQUE FIBERGLASS DOOR IN SWING "NON-IMPACT"

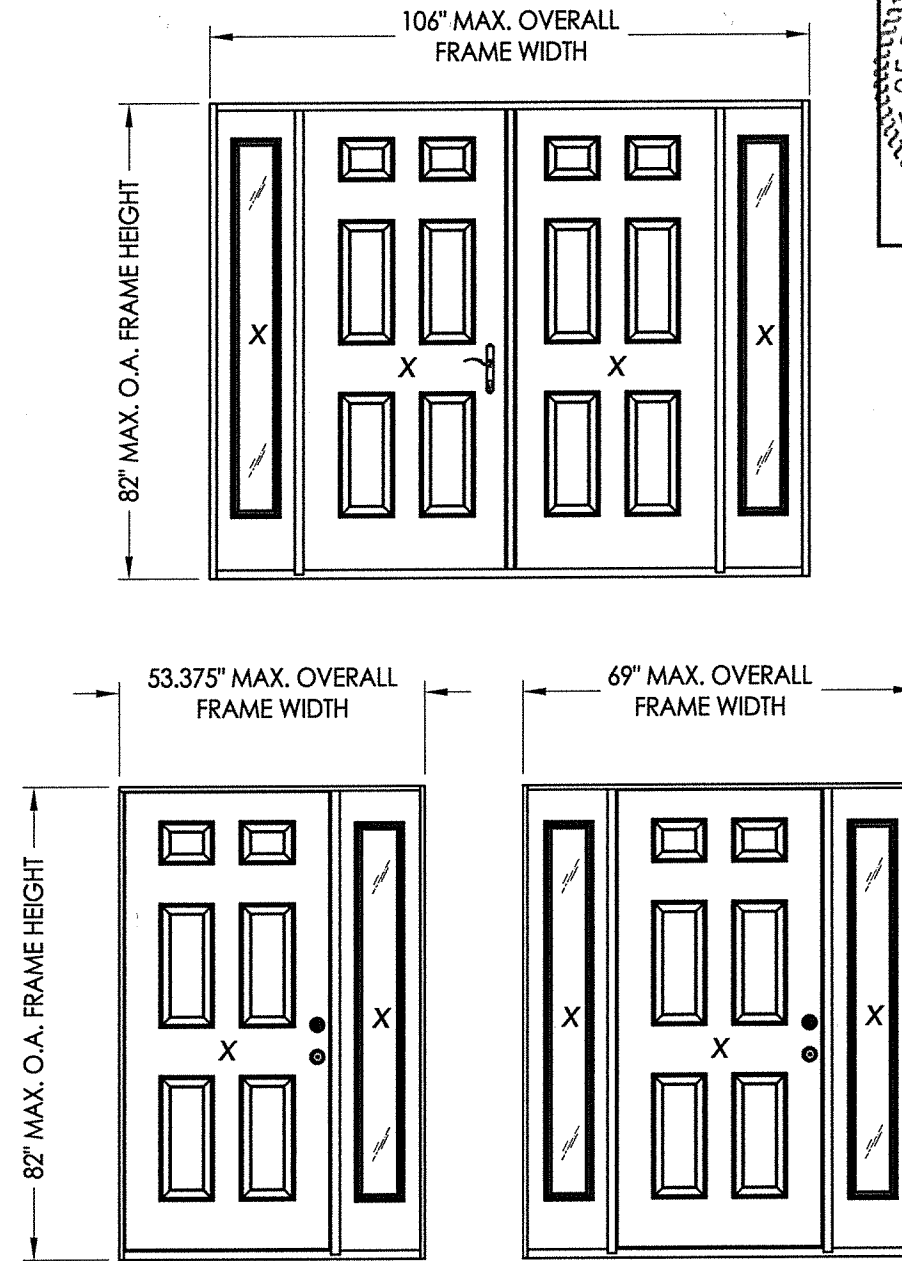
### EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass 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:

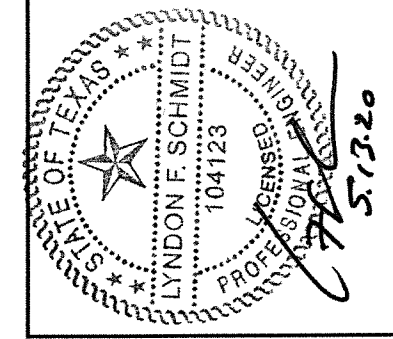
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 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.
5. Fiber-Classic and Smooth-Star Door and Sidelite panels require the use of "J" part numbers. These door and sidelite panels must be stained or painted within six months of installation.

### TABLE OF CONTENTS

SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Sidelite panel details and glazing details
4	Elevations
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring
8	Hardware details
9	Hardware strike details
10	Bill of materials and components



CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF) Multi-Point Door Lock		DESIGN PRESSURE (PSF) Lock & Deadbolt	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	53.375" x 82.0"	+80.0	-80.0	+65.0	-75.0
XXX	69.0" x 82.0"	+80.0	-80.0	+65.0	-75.0
XXXX	106.0" x 82.0"	+35.0	-40.0	N/A	N/A



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: THERMA-TRU

PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS
2	5/13/20	UPDATE TO 2018 IBC/IRC CODE
1	7/16/15	ADDED GENERAL NOTE 5.

DATE: 1/2/13

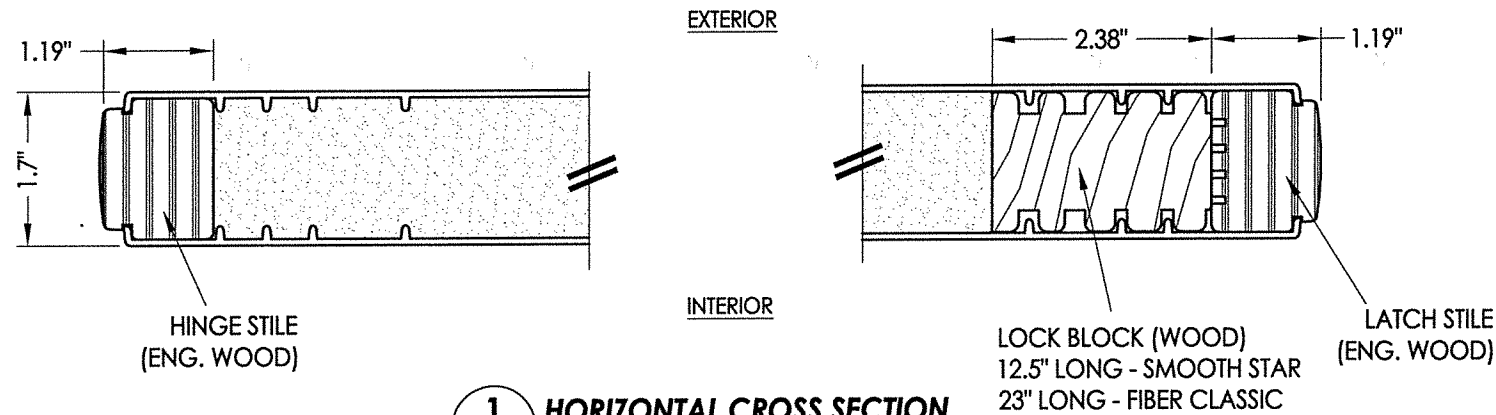
SCALE: N.T.S.

DWG. BY: JK

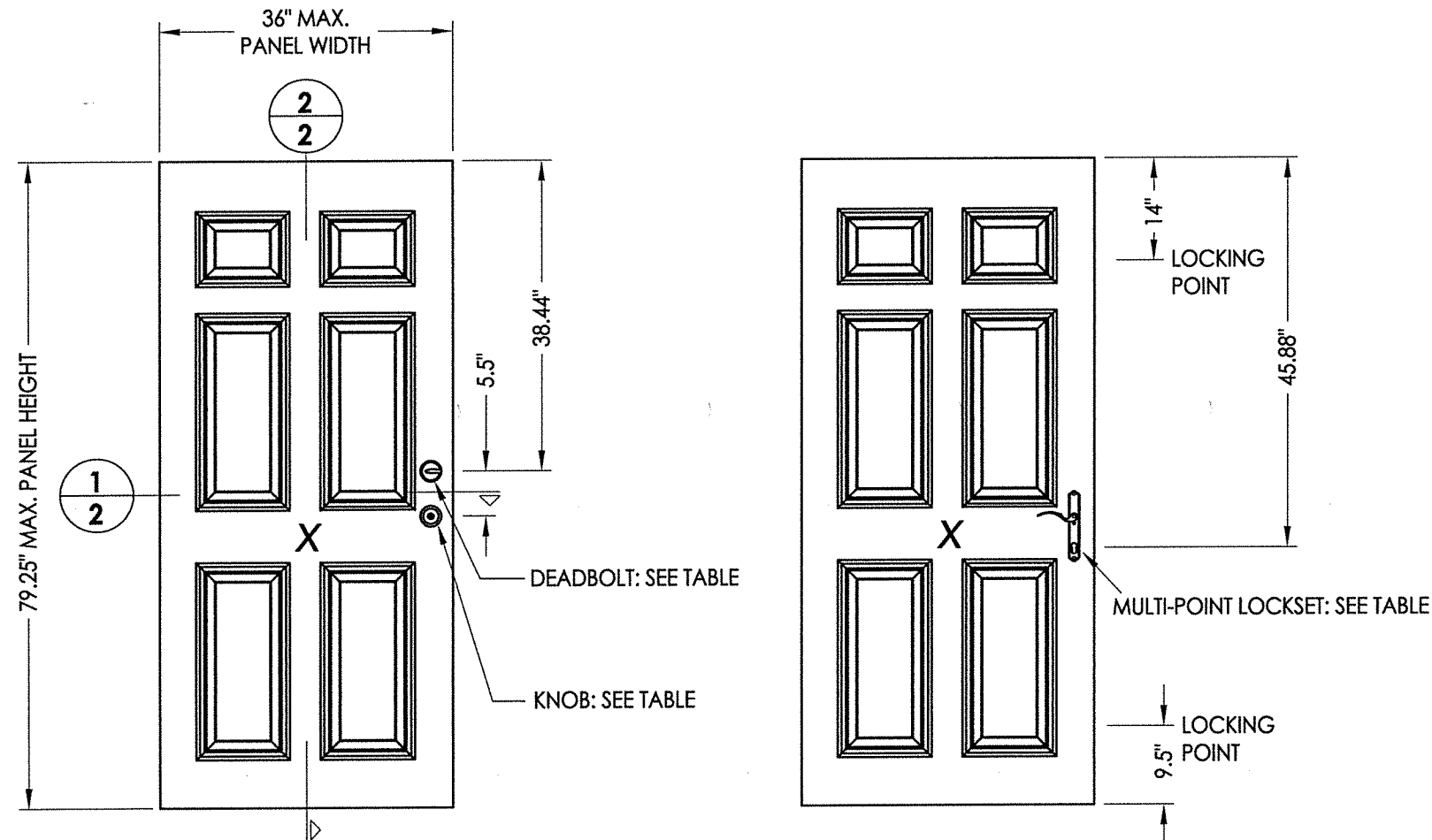
CHK. BY: LFS

DRAWING NO.: TX-4291

SHEET 1 OF 10



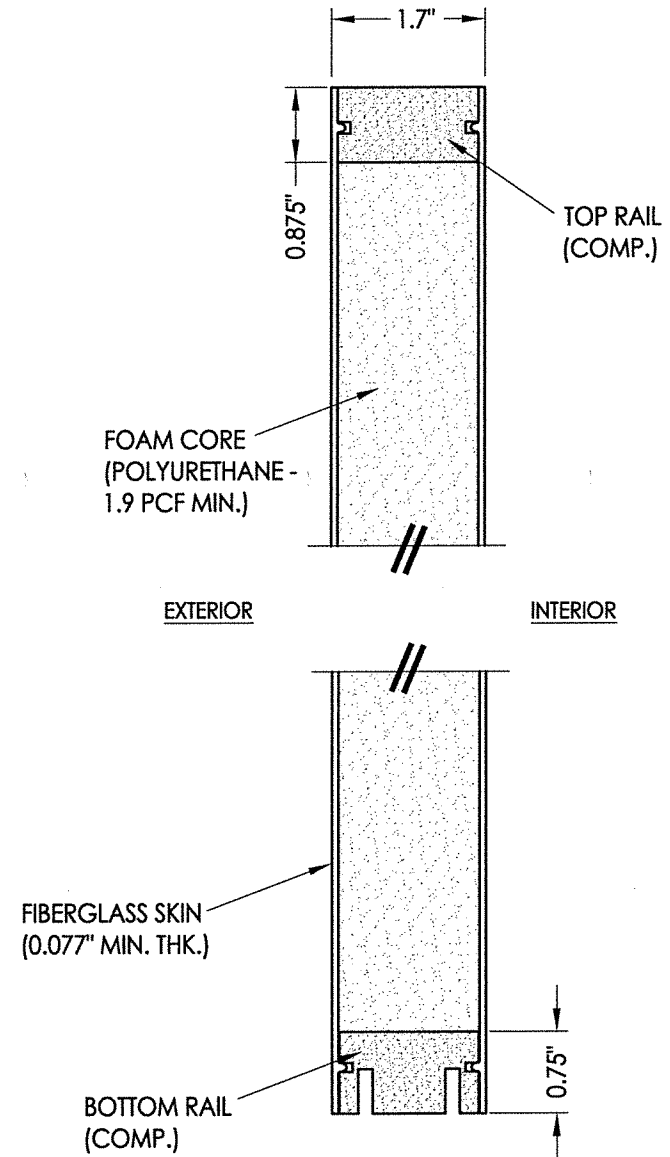
**1**  
**2** HORIZONTAL CROSS SECTION



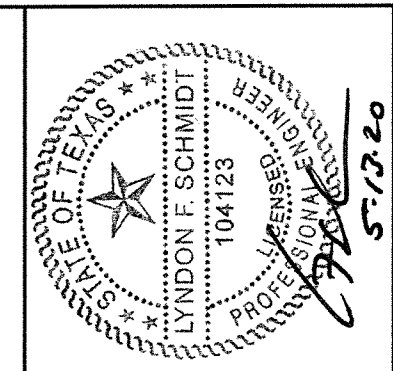
**40** DOOR PANEL (SMOOTH STAR / FIBER CLASSIC)  
Latch & Deadbolt

**40** DOOR PANEL (SMOOTH STAR / FIBER CLASSIC)  
Multi-point Lockset

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (780)
HOPPE	MULTI-POINT:	HLS 9000 SERIES



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

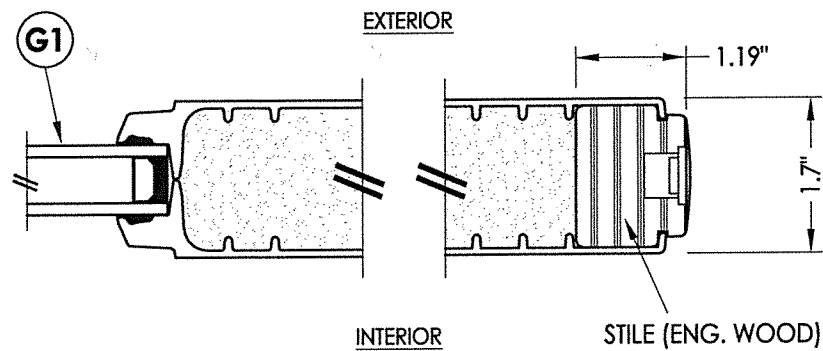


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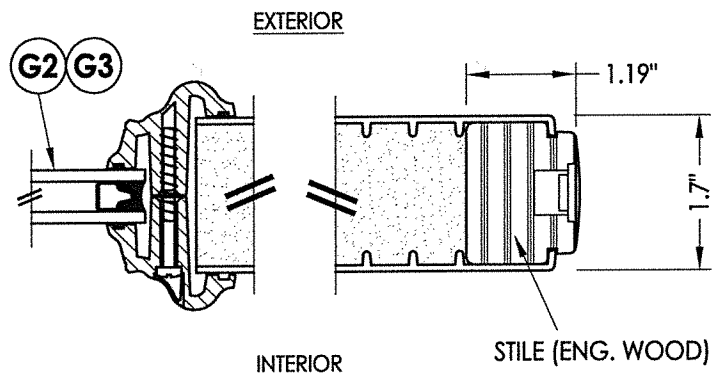
**RW** BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

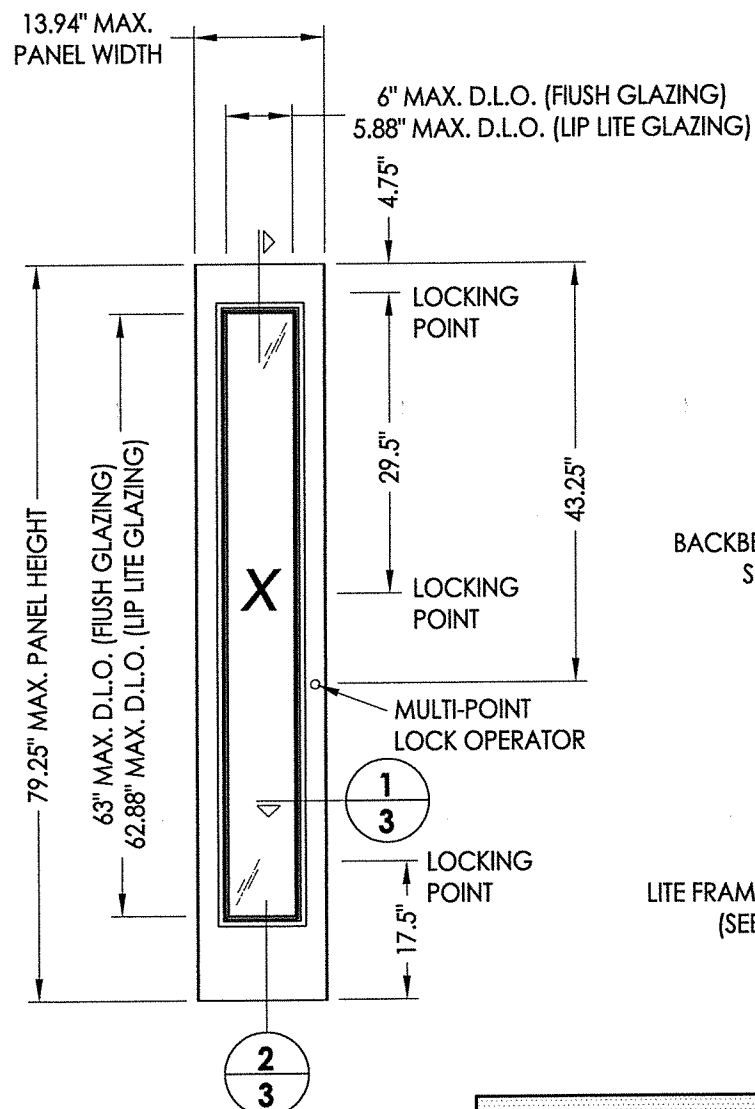
PRODUCT:	THERMA-TRU
PART OR ASSEMBLY:	DOOR PANEL DETAILS
DATE:	1/2/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4291
SHEET	2 OF 10



**1** HORIZONTAL CROSS SECTION  
**3** Flush Glazing

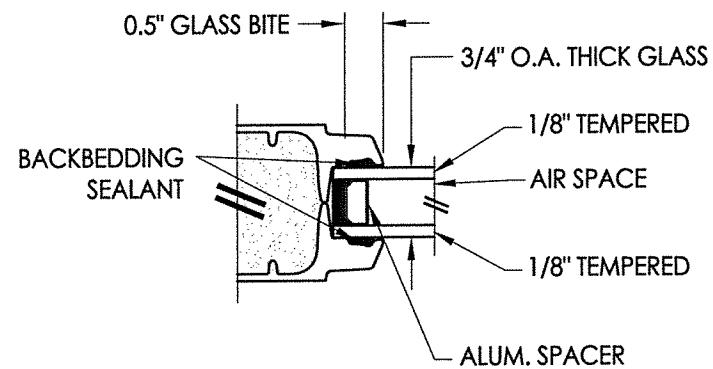


**1** HORIZONTAL CROSS SECTION  
**3** Lip Lite Glazing

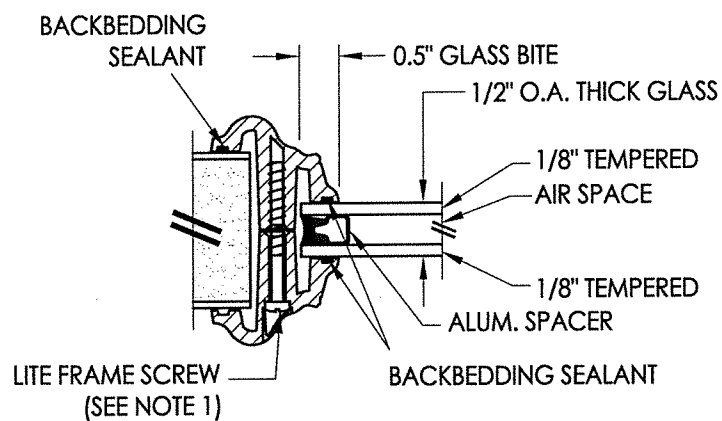


**50** SIDELITE PANEL  
VENTED

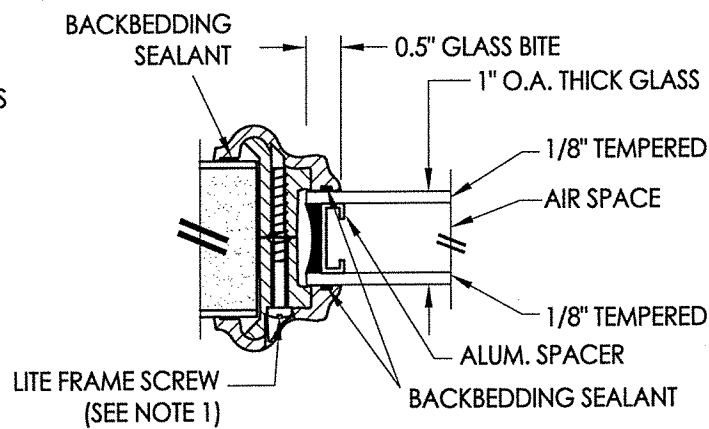
HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE	MULTI-POINT: OSL SERIES (Sidelite)



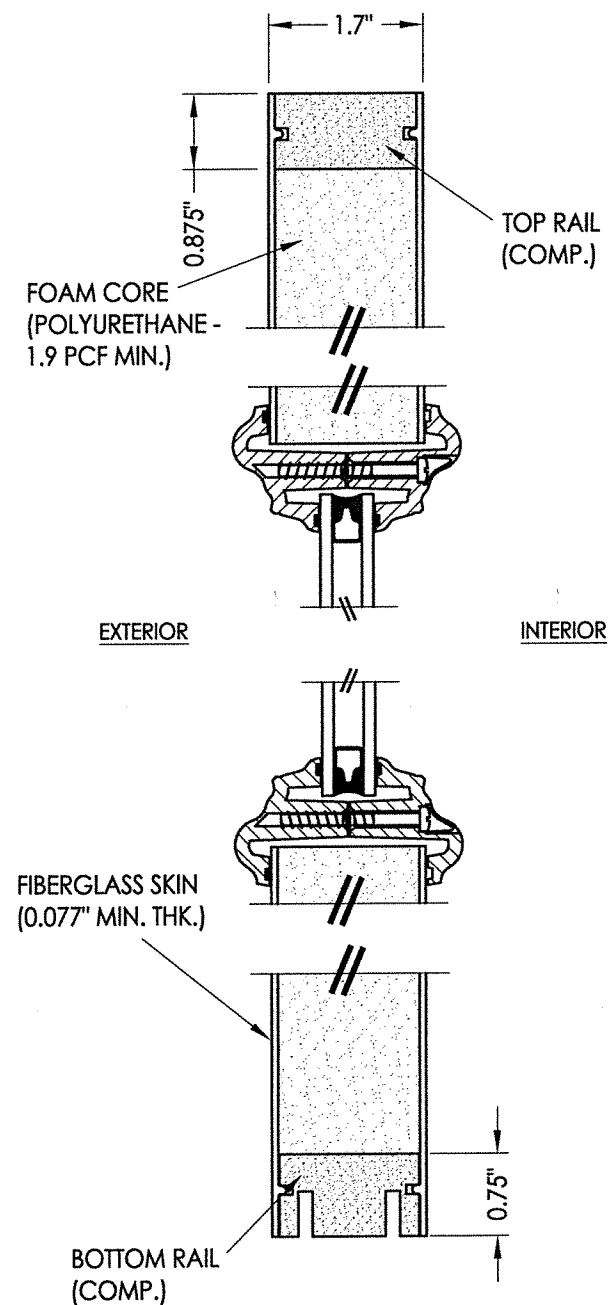
**G1** GLAZING DETAIL (3/4" IG)  
Flush Glazed



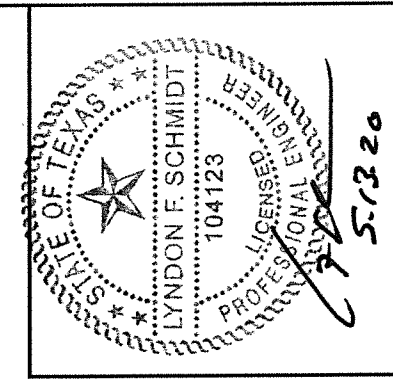
**G2** GLAZING DETAIL (1/2" IG)  
Lip Lite Frame (BTS)



**G3** GLAZING DETAIL (1" IG)  
Lip Lite Frame (BTS)



**2** VERTICAL CROSS SECTION  
**3**



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

PRODUCT: THERMA-TRU

PART OR ASSEMBLY:  
SIDELITE PANEL DETAILS  
& GLAZING DETAILS

NO.	DATE	BY	REVISIONS
2	5/13/20	LFS	UPDATE TO 2018 IBC/IRC CODE
1	7/16/15	LFS	ADDED GENERAL NOTE 5.

DATE: 1/2/13

SCALE: N.T.S.

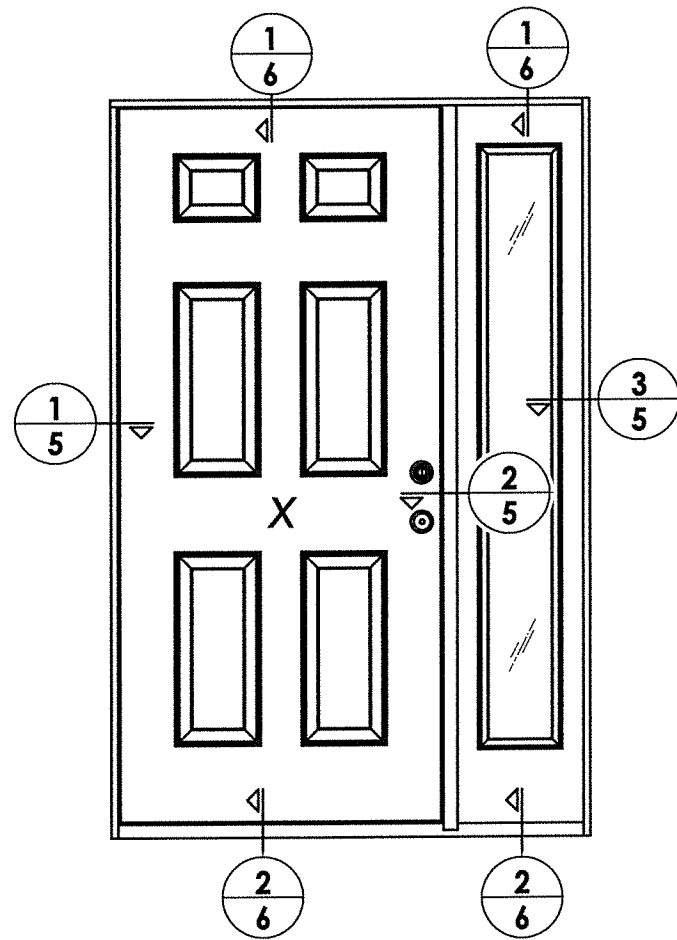
DWG. BY: JK

CHK. BY: LFS

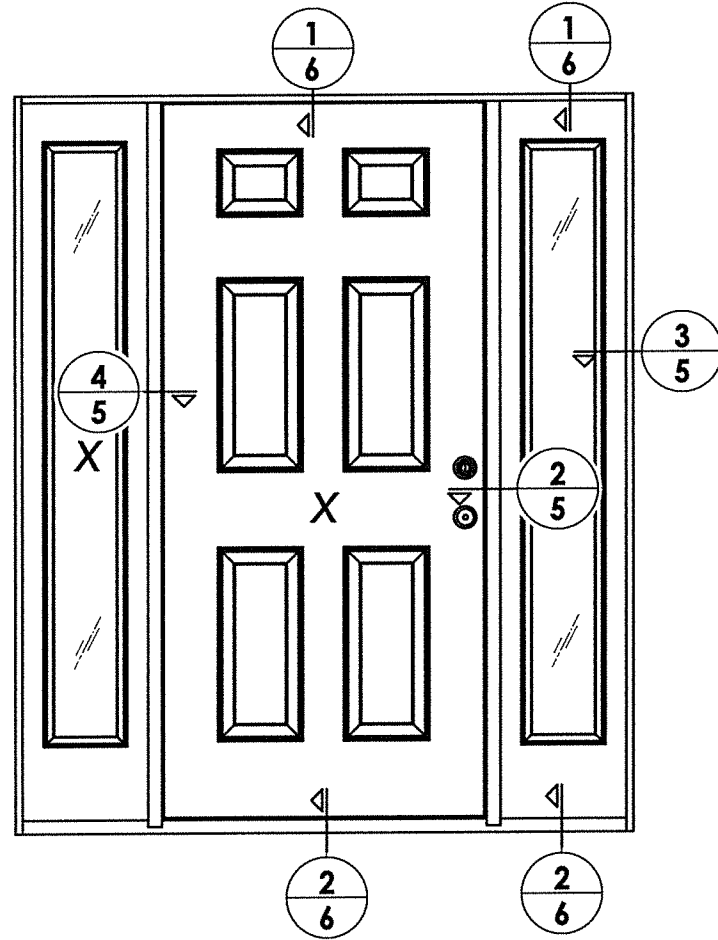
DRAWING NO.: TX-4291

SHEET 3 OF 10

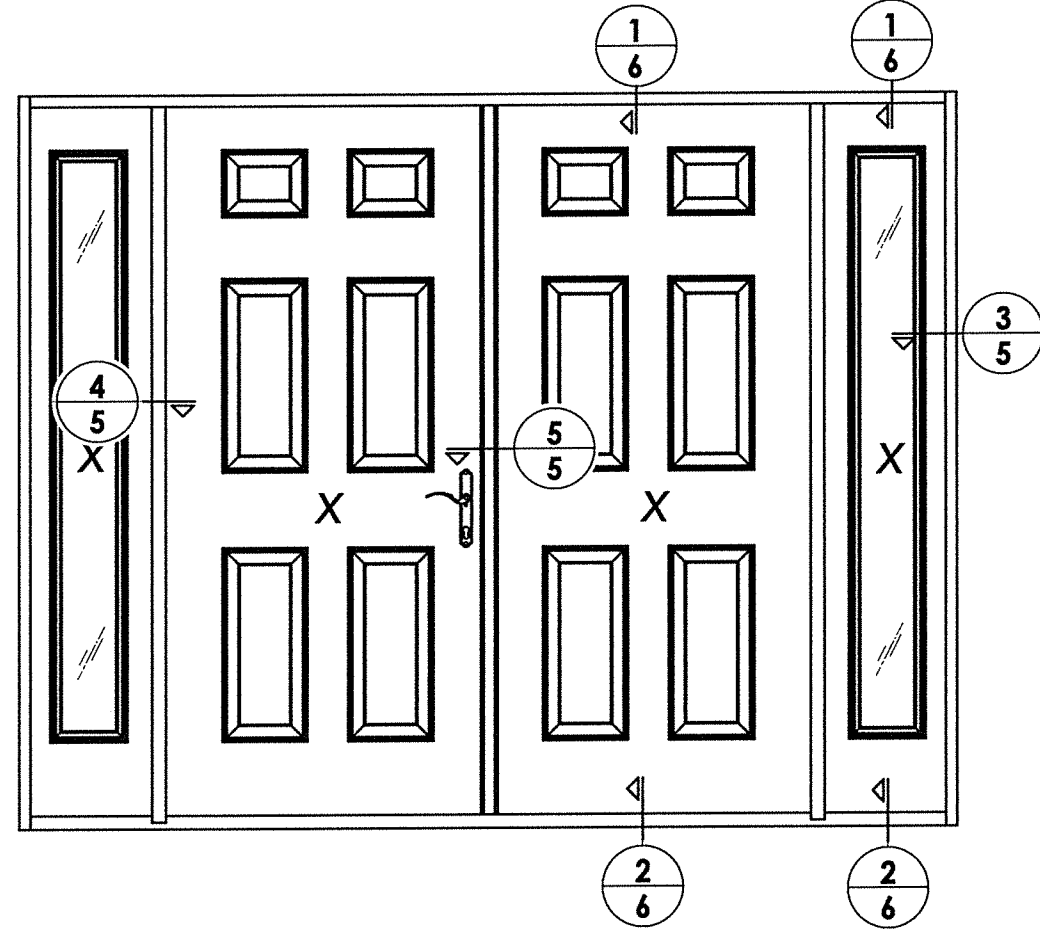
NOTE:  
1. Lite frame screws (#8 x 1-1/2" PH SMS), 14 total per sidelite, evenly spaced.



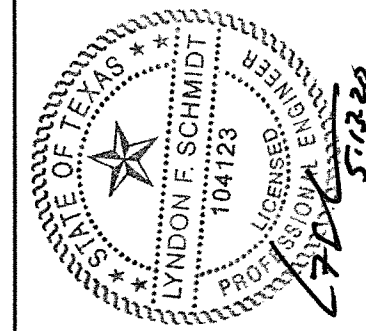
ELEVATION  
XX



ELEVATION  
XXX



ELEVATION  
XXXX

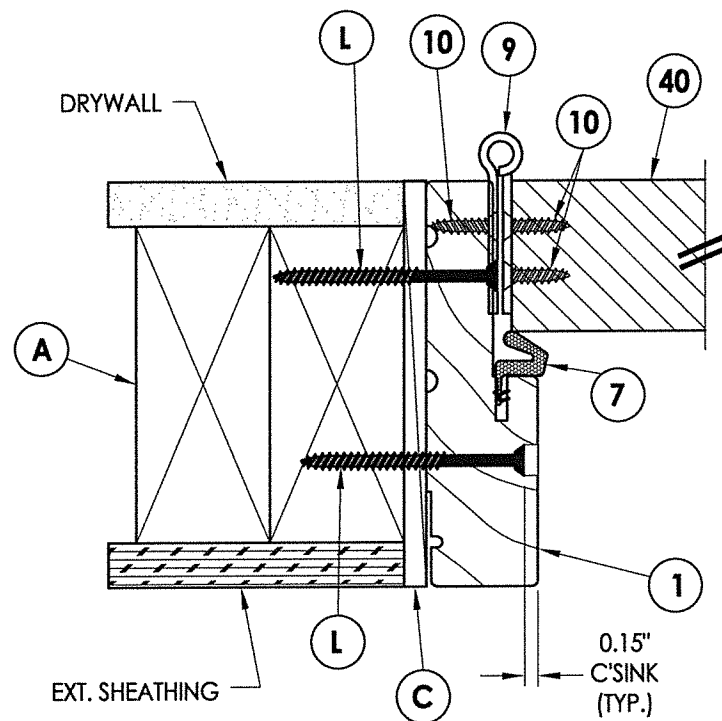


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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

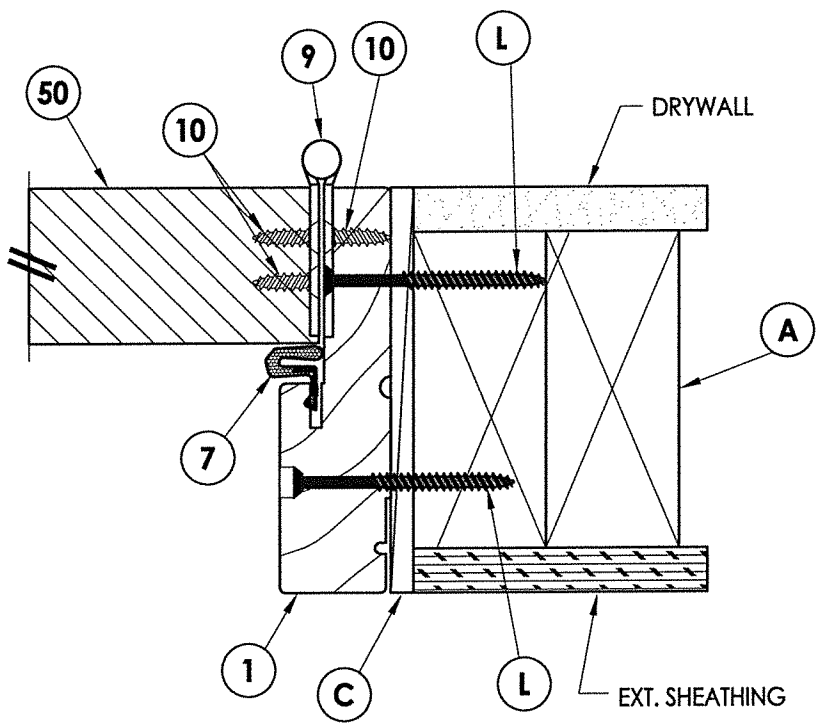
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PART OR ASSEMBLY: ELEVATIONS	
REVISIONS	
NO.	DATE
2	5/13/20
1	7/16/15
UPDATE TO 2018 IBC/IRC CODE	
ADDED GENERAL NOTE 5.	
LFS	BY
DATE: 1/2/13	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4291	
SHEET 4 OF 10	



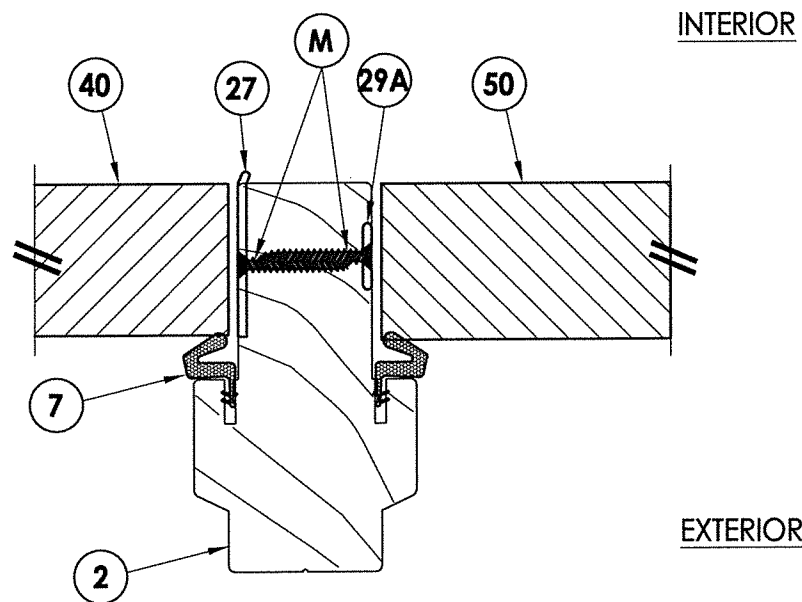
**1** HORIZONTAL CROSS SECTION  
**5**

INTERIOR

EXTERIOR



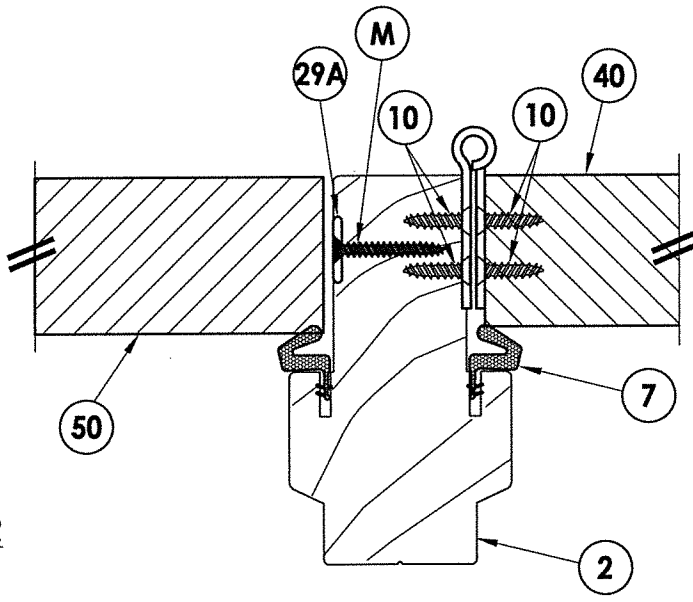
**3** HORIZONTAL CROSS SECTION  
**5**



**2** HORIZONTAL CROSS SECTION  
**5**

INTERIOR

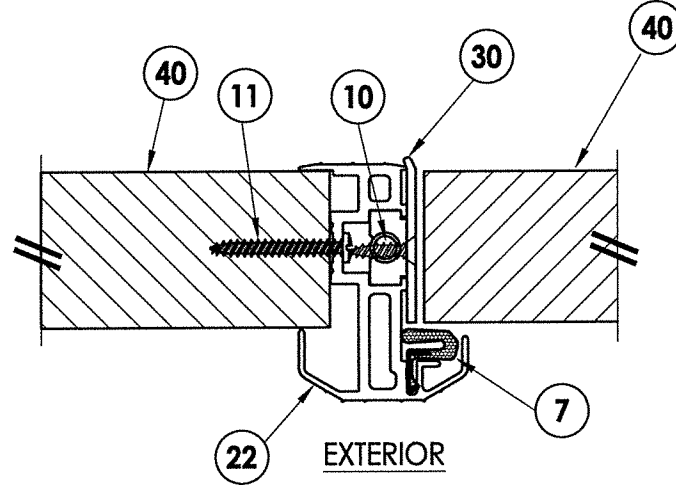
EXTERIOR



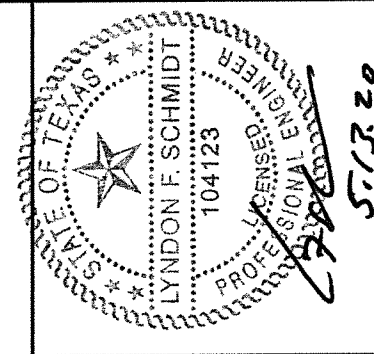
**4** HORIZONTAL CROSS SECTION  
**5**

INTERIOR

EXTERIOR



**5** HORIZONTAL CROSS SECTION  
**5**

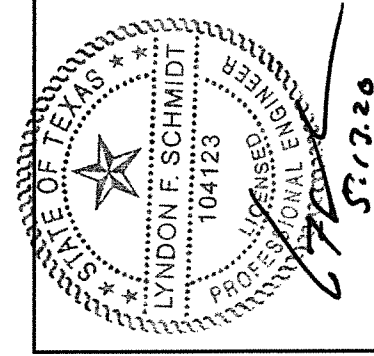
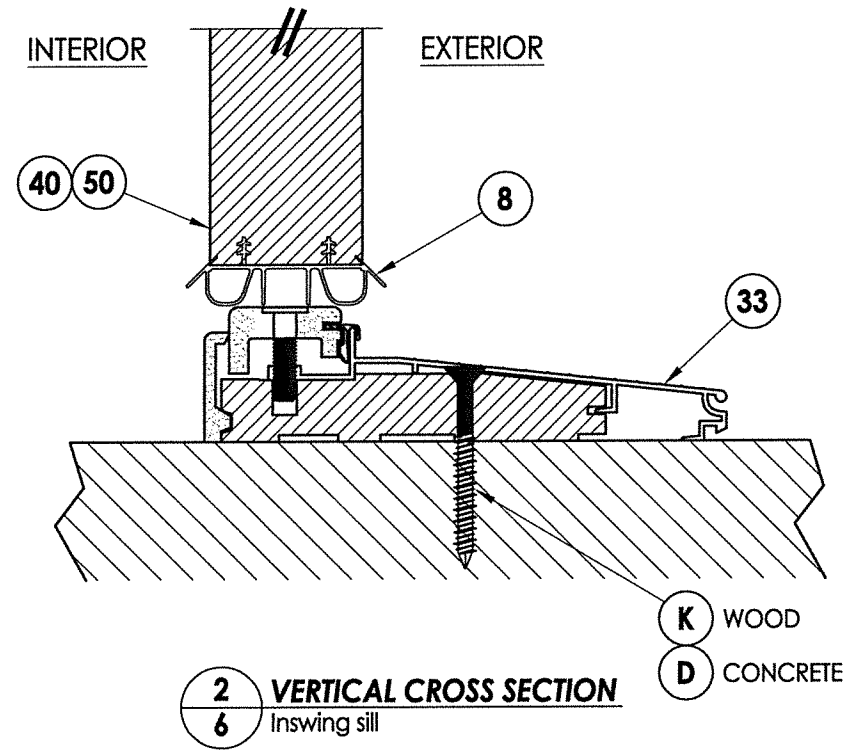
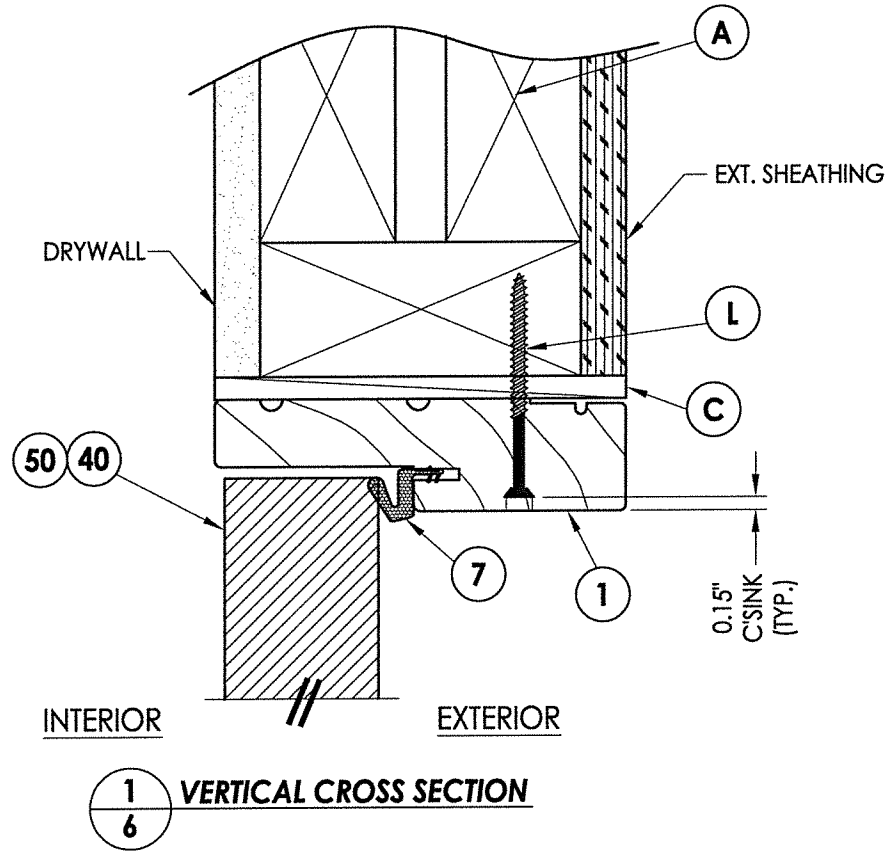


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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852  
5/13/20

PRODUCT: THERMA-TRU  
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
2	5/13/20	UPDATE TO 2018 IBC/IRC CODE
1	7/16/15	ADDED GENERAL NOTE 5.

DATE: 1/2/13  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: TX-4291  
SHEET 5 OF 10



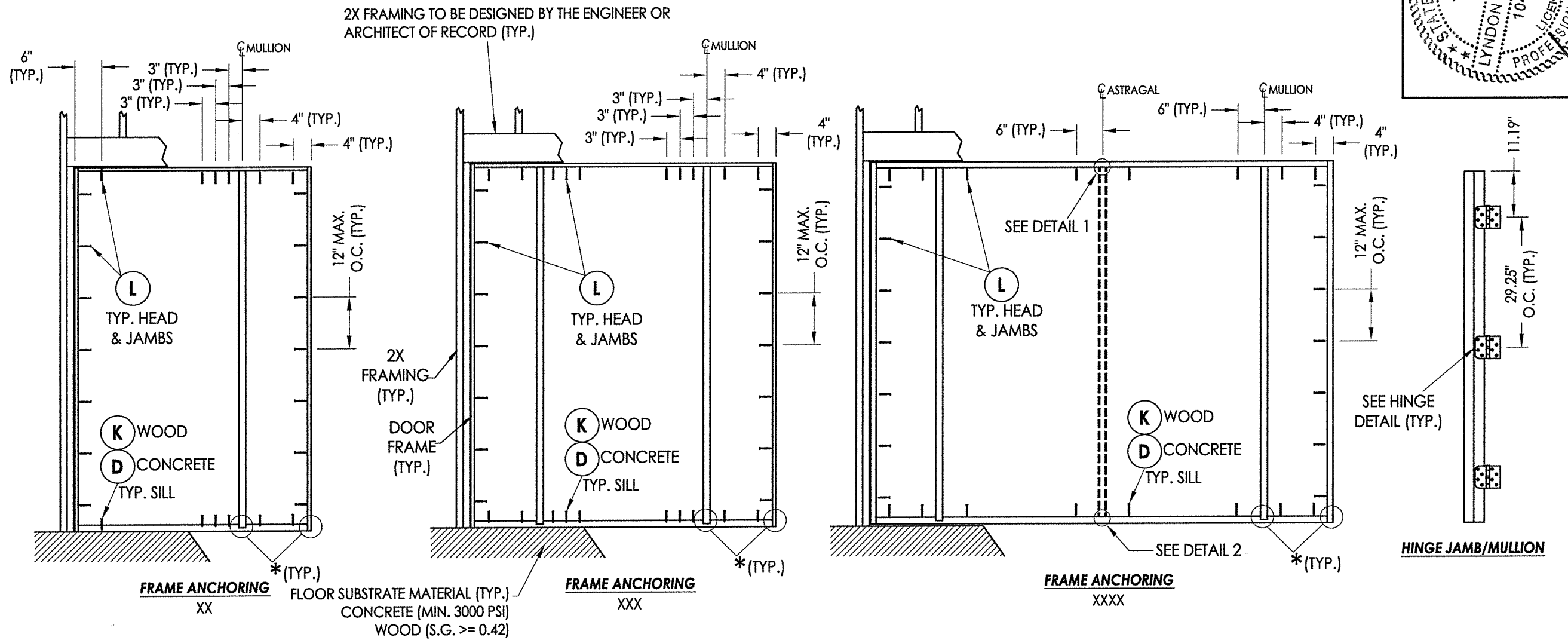
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TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU	
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
NO.	DATE
2	5/13/20
1	7/16/15
REVISIONS	
DATE:	1/2/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4291
SHEET	6 OF 10

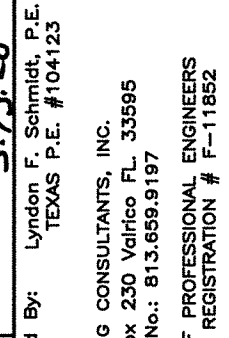
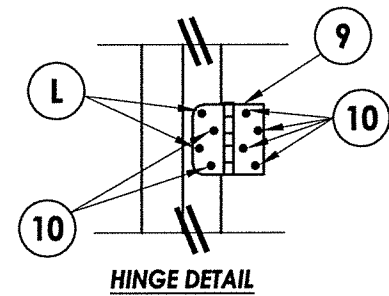
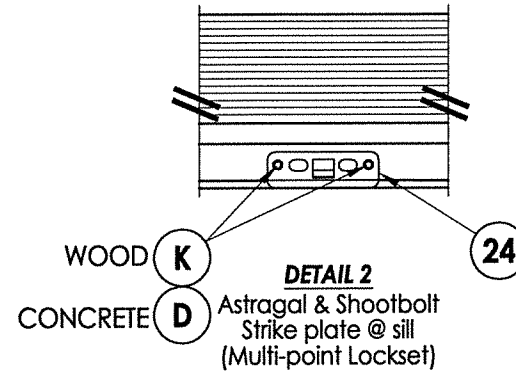
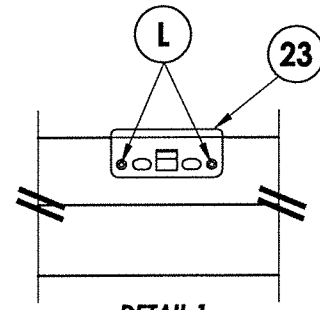
\* The frame jambs and vertical mullions are secured to the head and sill with (3) #8 x 2-1/2" wood screws each.



**CONCRETE ANCHOR NOTES:**

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"

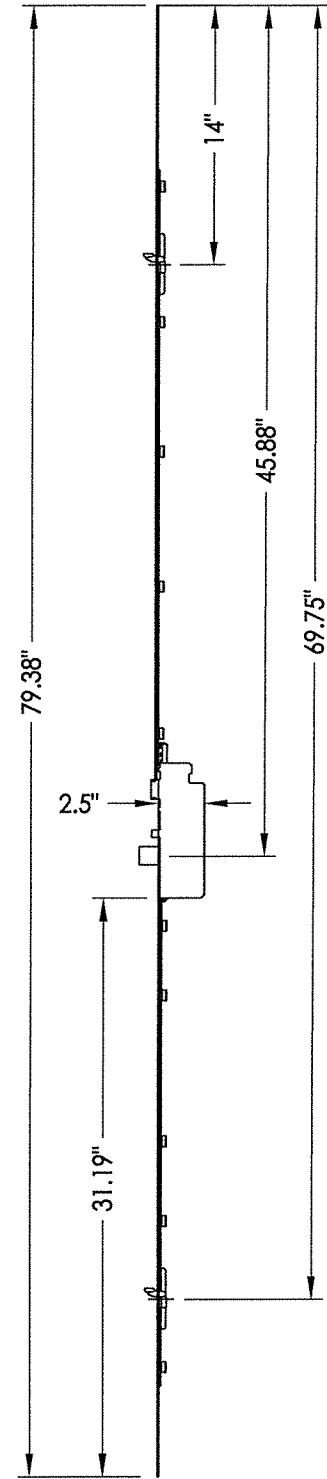
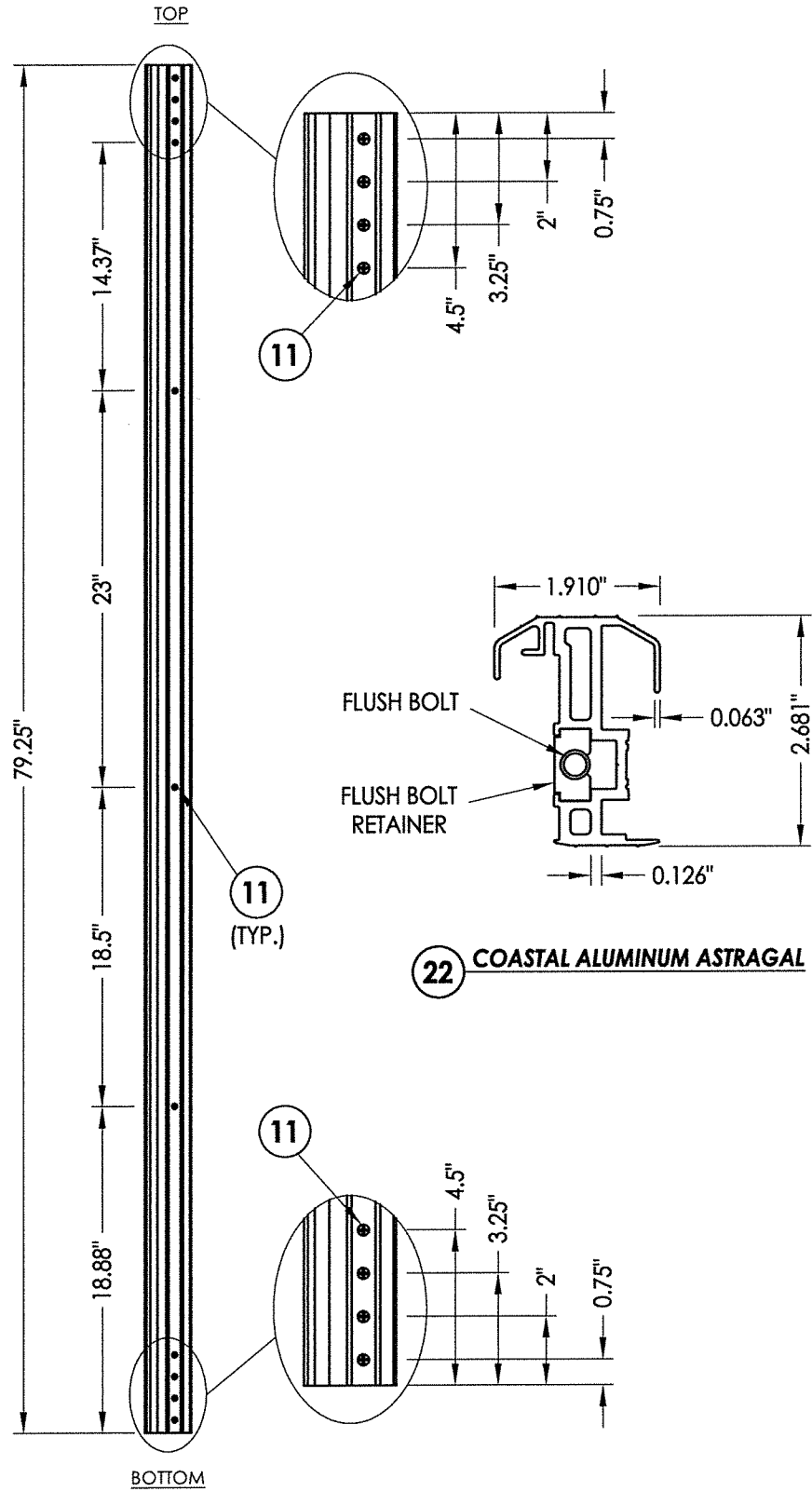


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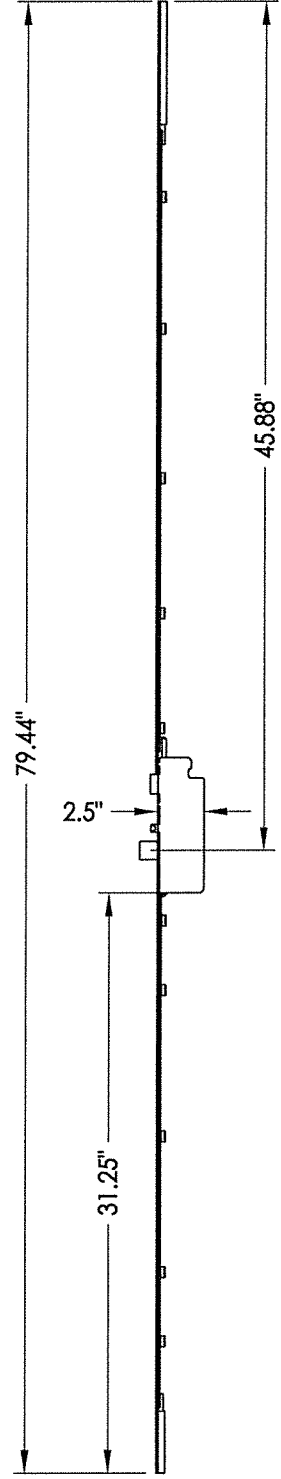
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Vairico FL 33595  
Phone No.: 813.659.9197

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

PRODUCT:	Therma-TRU		
PART OR ASSEMBLY:	FRAME ANCHORING		
DATE	NO.	DATE	BY
5/13/20	2	UPDATE TO 2018 IBC/IRC CODE	LFS
7/16/15	1	ADDED GENERAL NOTE 5.	LFS
REVISIONS			
DATE:	1/2/13		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	TX-4291		
SHEET	7	OF	10

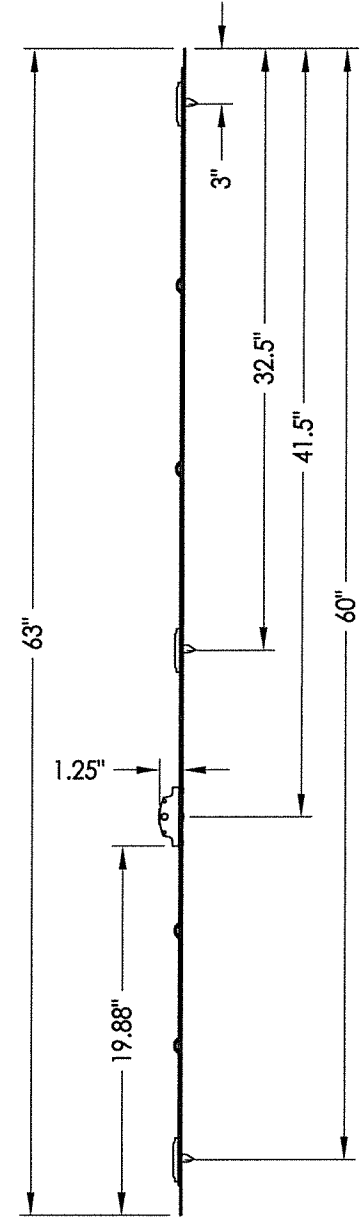


**HOPPE MULTI-POINT LOCK**  
Manual Raised Tongue  
Gear System  
(Single Door)

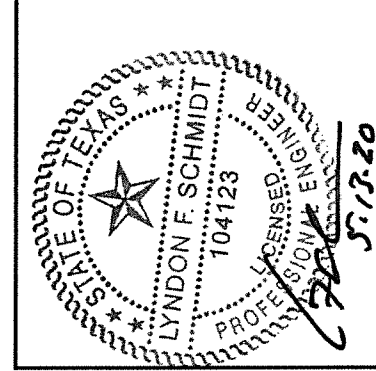


**HOPPE MULTI-POINT LOCK**  
Manual Shootbolt System  
(Double Door)

**HOPPE MULTI-POINT LOCK SYSTEMS**



**HOPPE MULTI-POINT LOCK**  
Manual Raised Tongue  
Gear System  
(Sidelite)



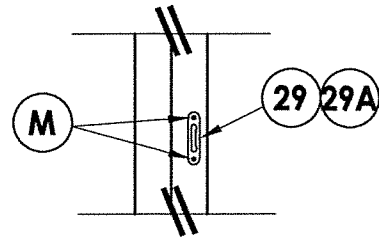
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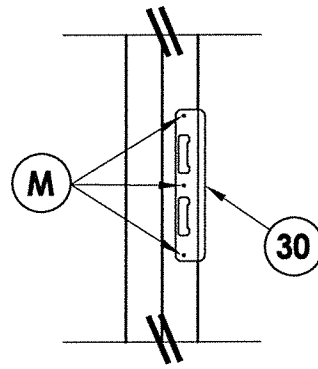
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:	Therma TRU	
PART OR ASSEMBLY:	HARDWARE DETAILS	
NO.	DATE	BY
2	5/13/20	LFS
1	7/16/15	LFS
REVISIONS		
DATE:	1/2/13	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4291	
SHEET	8	OF 10

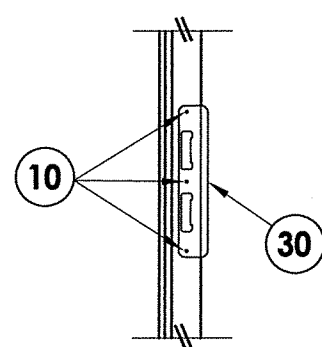




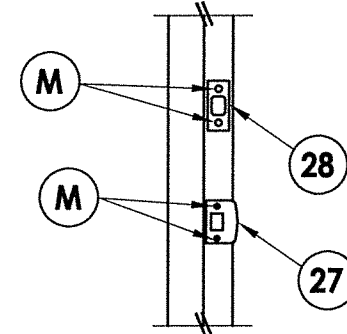
**TONGUE STRIKE DETAIL**  
Single Door/Sidelite



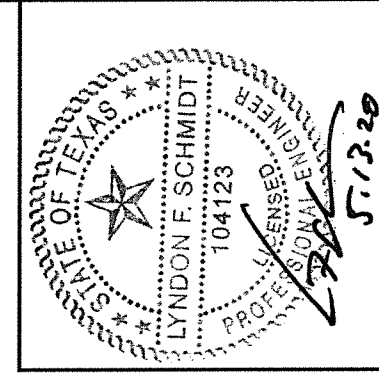
**LATCH & DEADBOLT DETAIL**  
Single Door



**LATCH & DEADBOLT DETAIL**  
Double Door

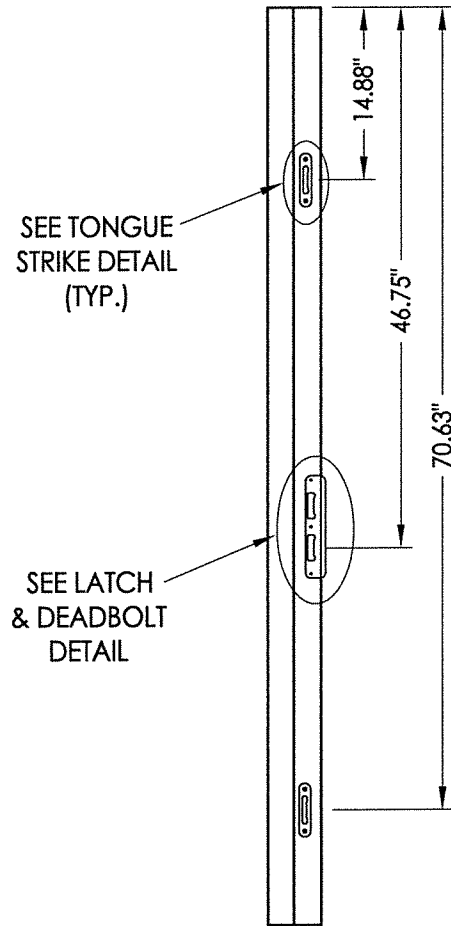


**LATCH & DEADBOLT DETAIL**  
Single Door

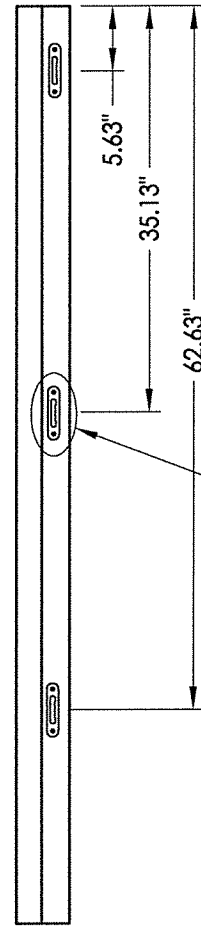


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TEXAS P.E. #104123

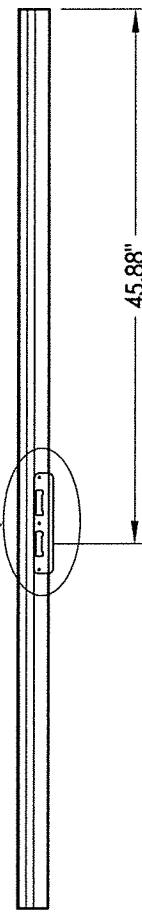
**RW** BUILDING CONSULTANTS, INC.  
P.O. Box 230 Valrico FL 33595  
Phone No.: 813.659.9197  
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



**STRIKE JAMB / MULLION**  
Single Door

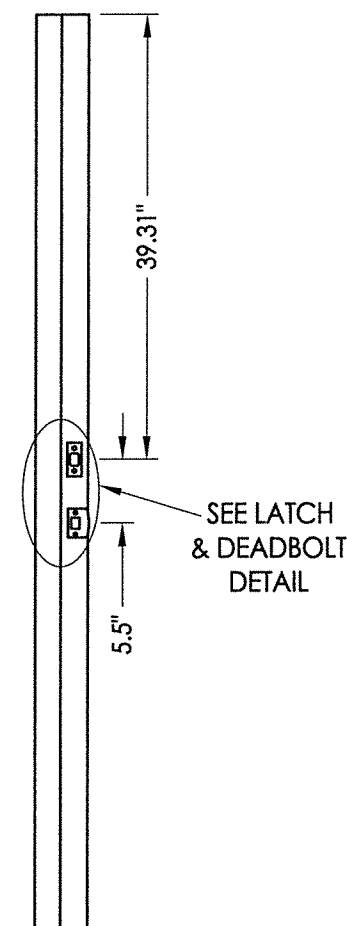


**STRIKE MULLION**  
Sidelite



**ASTRAGAL STRIKE**  
Double Door

**MULTI-POINT LOCK STRIKE DETAILS**



**STRIKE JAMB / MULLION**  
Single Door

**LATCH & DEADBOLT STRIKE DETAILS**

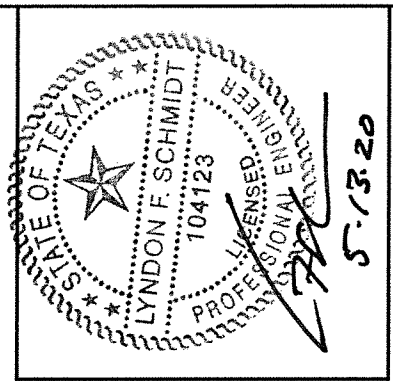
PRODUCT:	THERMA-TRU
PART OR ASSEMBLY:	HARDWARE STRIKE DETAILS

NO.	DATE	REVISIONS
2	5/13/20	UPDATE TO 2018 IBC/IRC CODE LFS
1	7/16/15	ADDED GENERAL NOTE 5. LFS

DATE:	1/2/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4291
SHEET	9 OF 10

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDL - DR 642 - 68 - 80 Opaque SS FG NonImp IS Vented SidelitesC - Drawings\TX-4291.dwg, 10.1

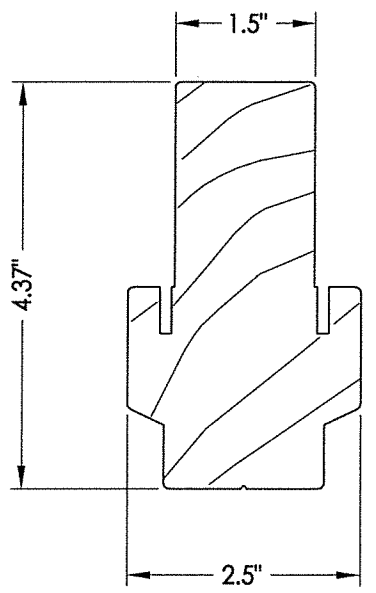
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
K	#12 X 3" PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	#8 X 1-1/4" PFH WOOD SCREW	STEEL
1	HEAD AND SIDE JAMB (FINGER-JONTEED PINE) (G >= 0.42)	WOOD
2	INTEGRAL MULLION (FINGER-JONTEED PINE) (G >= 0.42)	WOOD
7	WEATHER-STRIP (THERMA-TRU)	FOAM
8	DOOR BOTTOM SWEEP	PVC
9	4" X 4" HINGE	STEEL
10	#10 X 3/4" PFH WOOD SCREW	STEEL
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL
22	COASTAL ALUMINUM ASTRAGAL	ALUM
23	ASTRAGAL & SHOOTBOLT STRIKE PLATE (AT HEAD)	STEEL
24	ASTRAGAL & SHOOTBOLT STRIKE PLATE (AT SILL)	STEEL
27	LATCH STRIKE PLATE (STANDARD)	STEEL
28	DEADBOLT PLATE (STANDARD)	STEEL
29	TONGUE STRIKE PLATE (DOOR TONGUE SYSTEM)	STEEL
29A	TONGUE STRIKE PLATE (SIDELITE TONGUE SYSTEM)	STEEL
30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	STEEL
33	INSWING THRESHOLD	ALUM/COMP
40	FIBERGLASS DOOR PANEL - SMOOTH STAR/ FIBER CLASSIC	-
50	FIBERGLASS SIDELITE PANEL - SMOOTH STAR/ FIBER CLASSIC	-



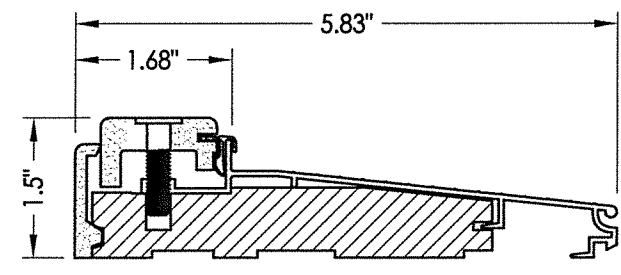
Documents Prepared By: Lyndon F. Schmidt, P.E.  
TEXAS P.E. #104123

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

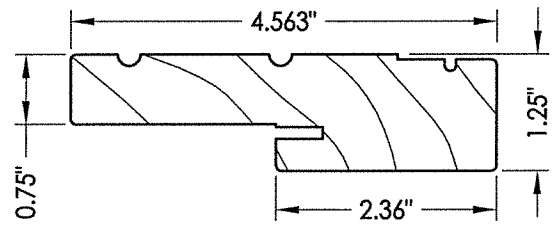
TEXAS BOARD OF PROFESSIONAL ENGINEERS  
CERTIFICATE OF REGISTRATION # F-11852



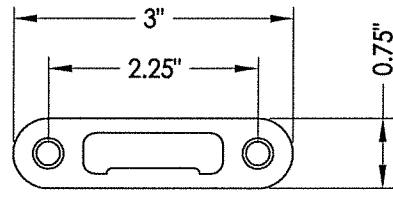
**2** INTEGRAL MULLION



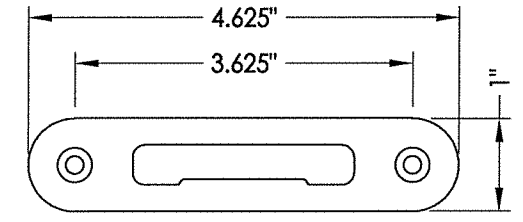
**33** INSWING THRESHOLD



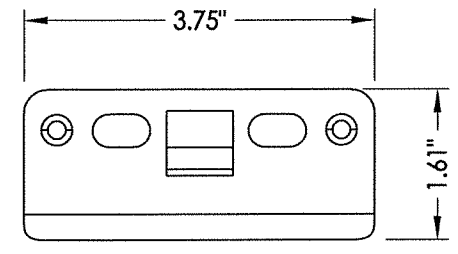
**1** HEAD & JAMB



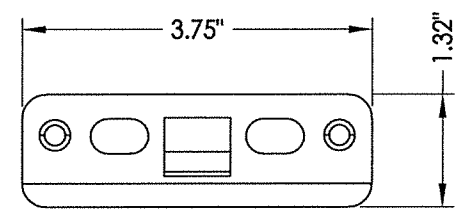
**29A** TONGUE STRIKE PLATE  
Sidelite Tongue system



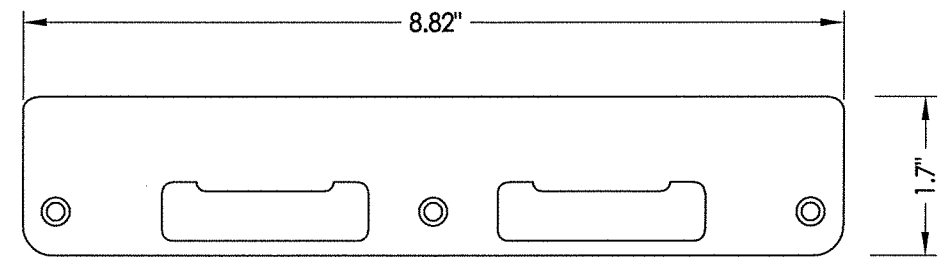
**29** TONGUE STRIKE PLATE  
Door Tongue system



**23** ASTRAGAL & SHOOTBOLT  
Strike plate @ head



**24** ASTRAGAL & SHOOTBOLT  
Strike plate @ sill



**30** LATCH & DEADBOLT STRIKE PLATE  
Tongue system

PRODUCT: THERMA-TRU

PART OR ASSEMBLY: BILL OF MATERIAL & COMPONENTS

NO.	DATE	REVISIONS
2	5/13/20	UPDATE TO 2018 IBC/IRC CODE
1	7/16/15	ADDED GENERAL NOTE 5.

DATE: 1/2/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4291

SHEET 10 of 10