

"Profiles" Series Glazed Steel Door w/ or w/o Sidelites "Non-Impact" INSWING / OUTSWING

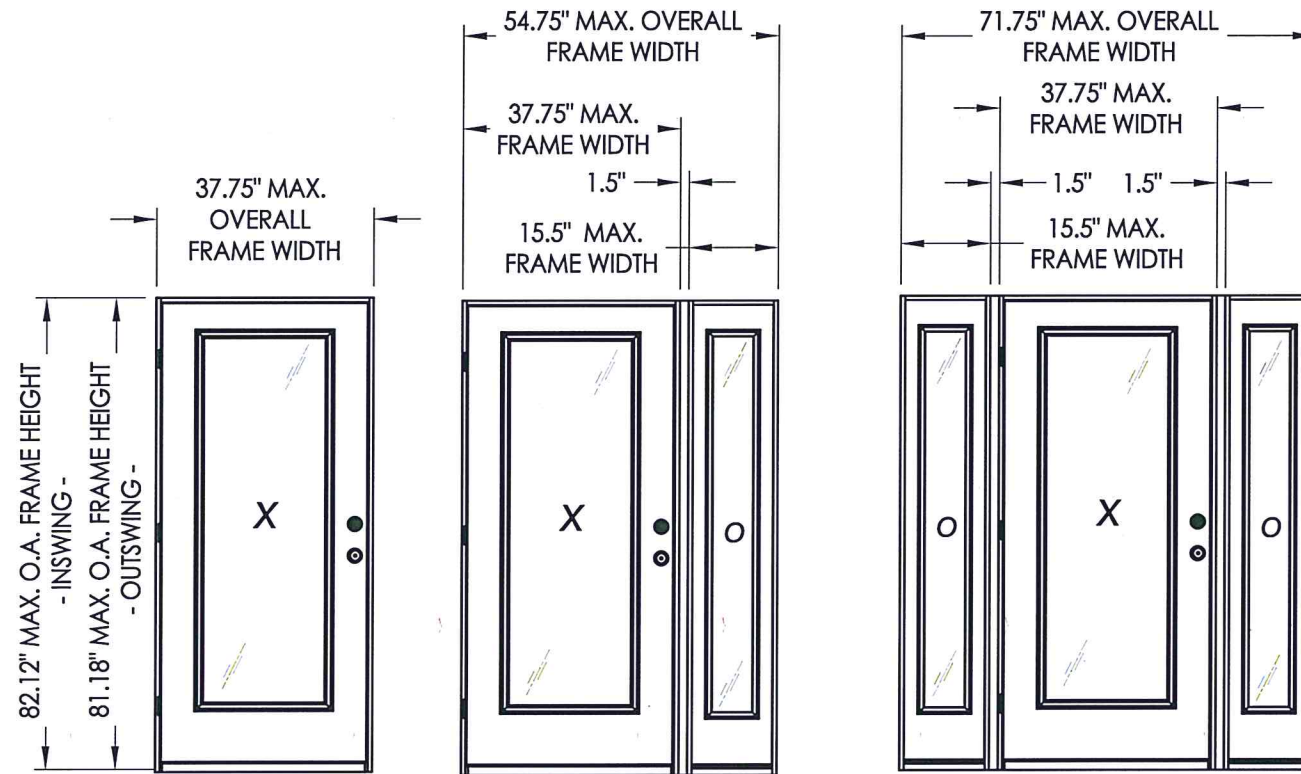
EVALUATED FOR USE IN THE STATE OF TEXAS

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:

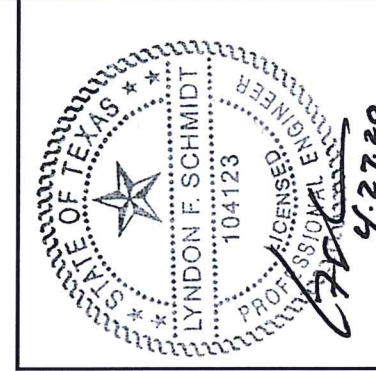
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, this system is required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 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.

TABLE OF CONTENTS

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



CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	SWING	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
X	37.75" x 82.12"	21.12" x 63.12"	INSWING	+35.0	-40.0
	37.75" x 81.18"		OUTSWING	+40.0	-40.0
OX or XO	54.75" x 82.12"	21.12" x 63.12"	INSWING	+35.0	-40.0
	54.75" x 81.18"		OUTSWING	+40.0	-40.0
OXO	71.75" x 82.12"	21.12" x 63.12"	INSWING	+35.0	-40.0
	71.75" x 81.18"		OUTSWING	+40.0	-40.0



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

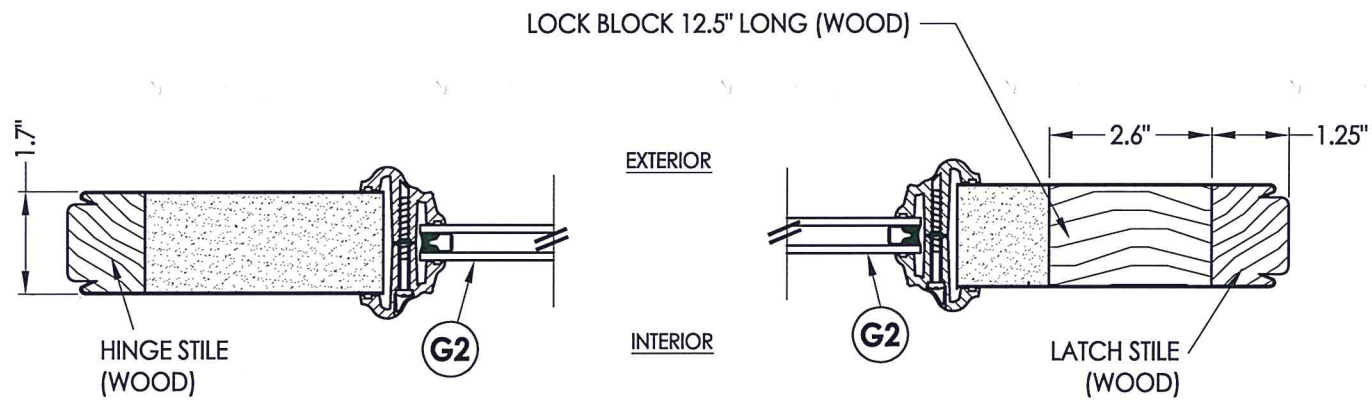
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU STEEL DOOR

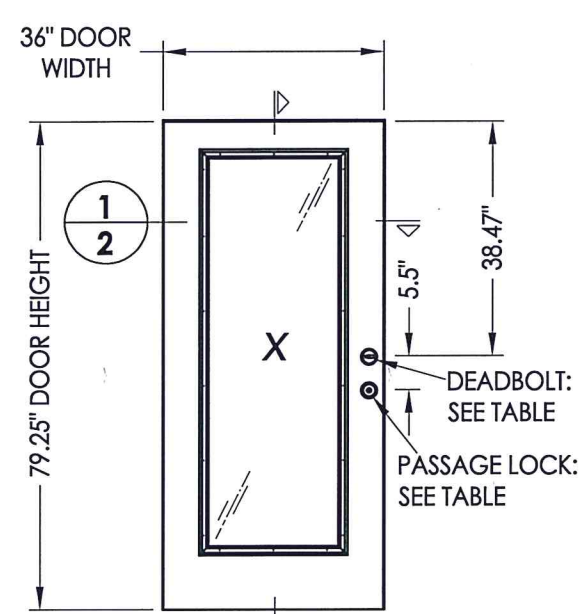
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	DESCRIPTION
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE

DATE: 08/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4230
SHEET 1 OF 10

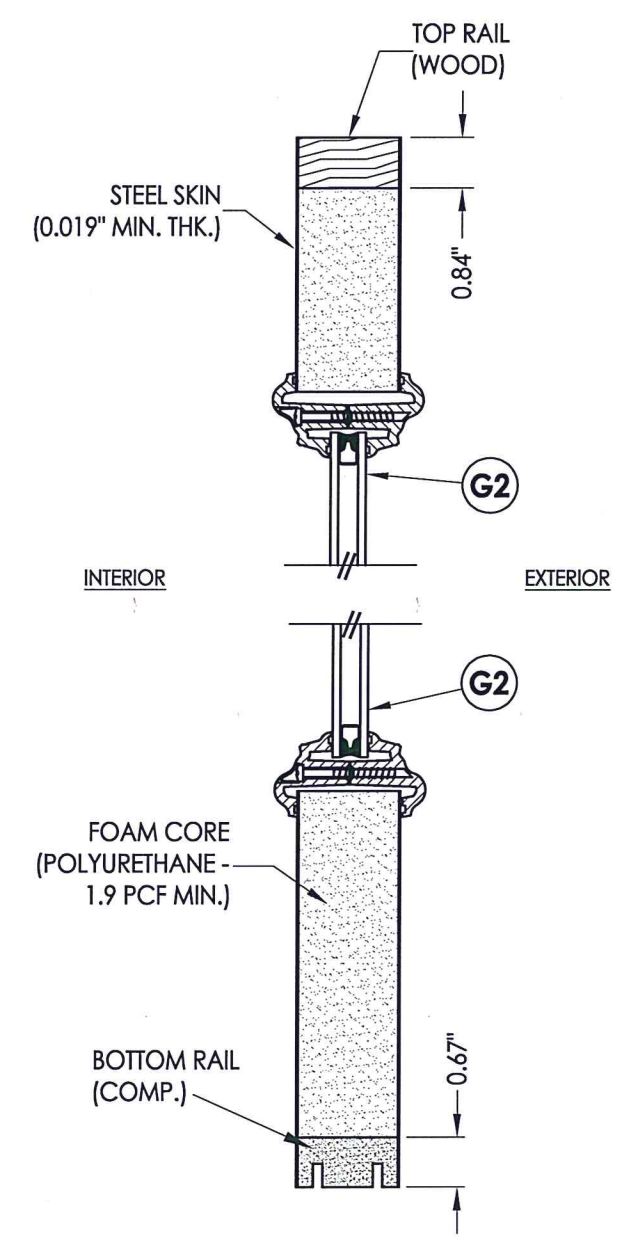
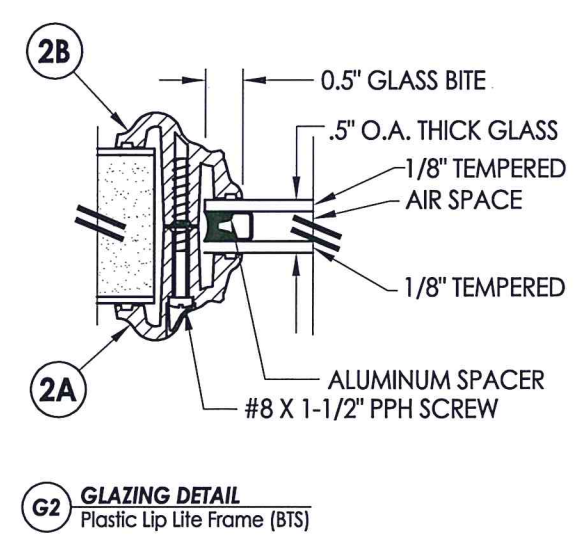
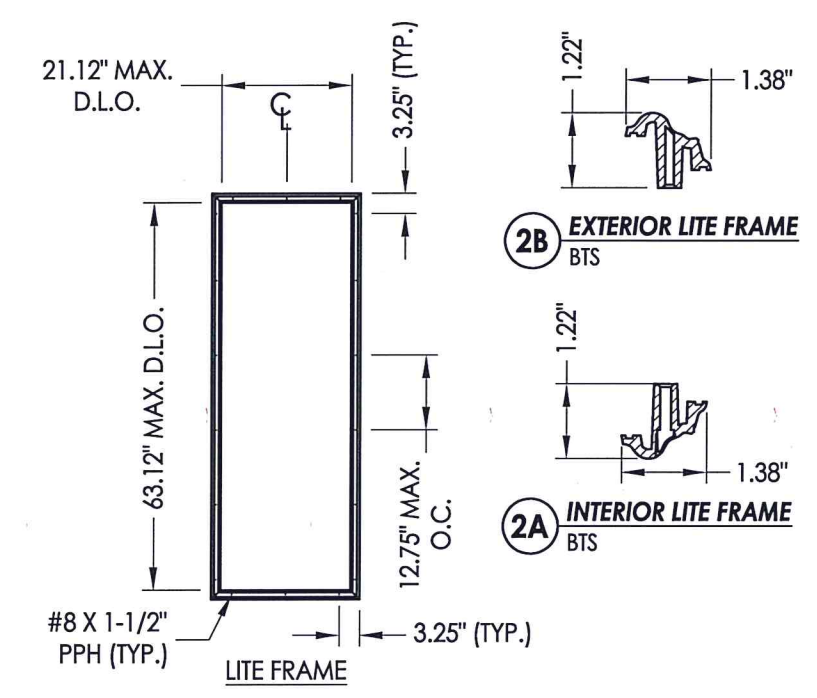


1
2 HORIZONTAL CROSS SECTION

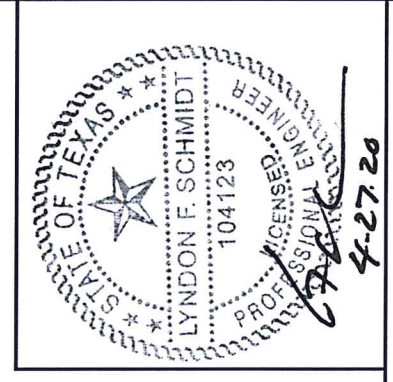


40 DOOR PANEL "Profiles" Series

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: SIGNATURE SERIES
	DEADBOLT: SIGNATURE SERIES (780)
SCHLAGE	KNOB: "F" SERIES (F10)
	DEADBOLT: "B" SERIES (B60/62)



2
2 VERTICAL CROSS SECTION

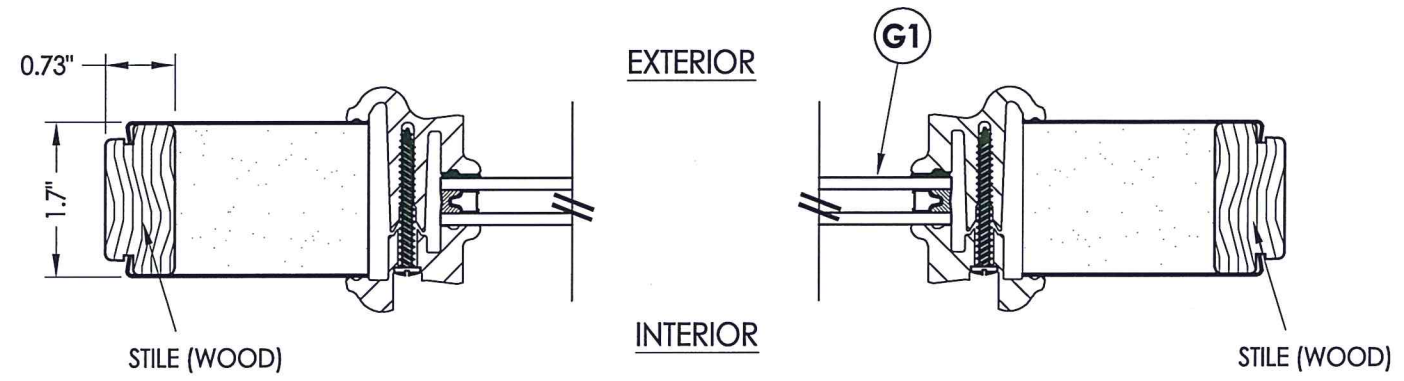
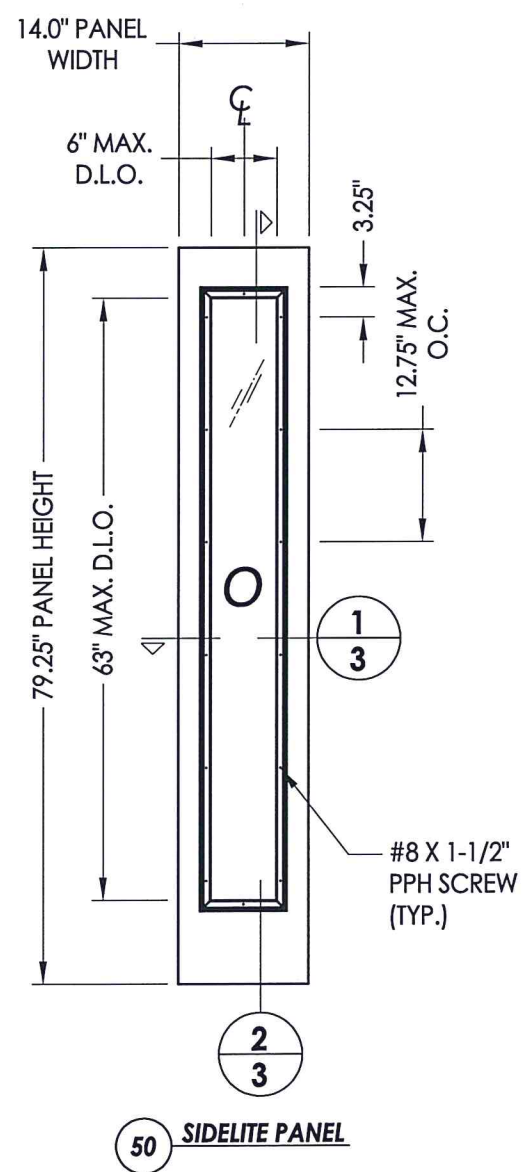


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

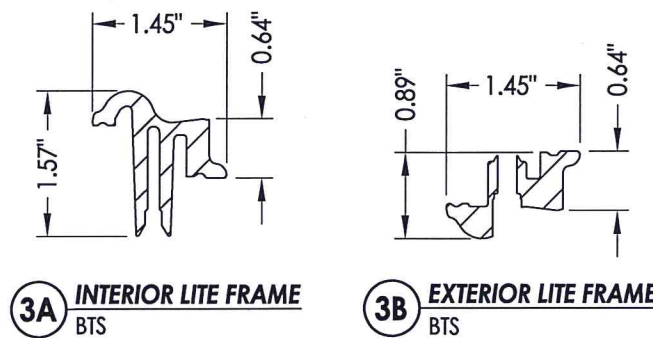
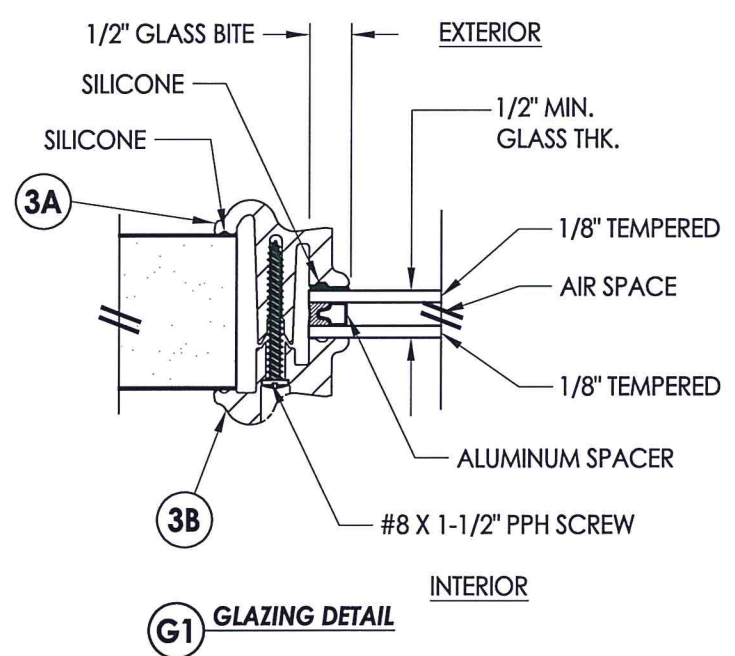
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197

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

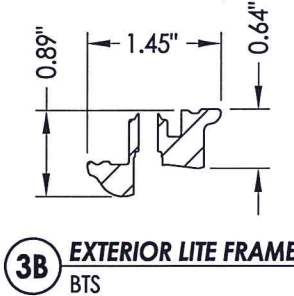
PRODUCT:	Therma-TRU STEEL DOOR	
PART OR ASSEMBLY:	DOOR PANEL DETAILS	
NO.	DATE	BY
1	4/27/20	LFS
UPDATE TO 2018 IBC/IRC CODE		
REVISIONS		
DATE:	08/16/12	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4230	
SHEET	2 OF 10	



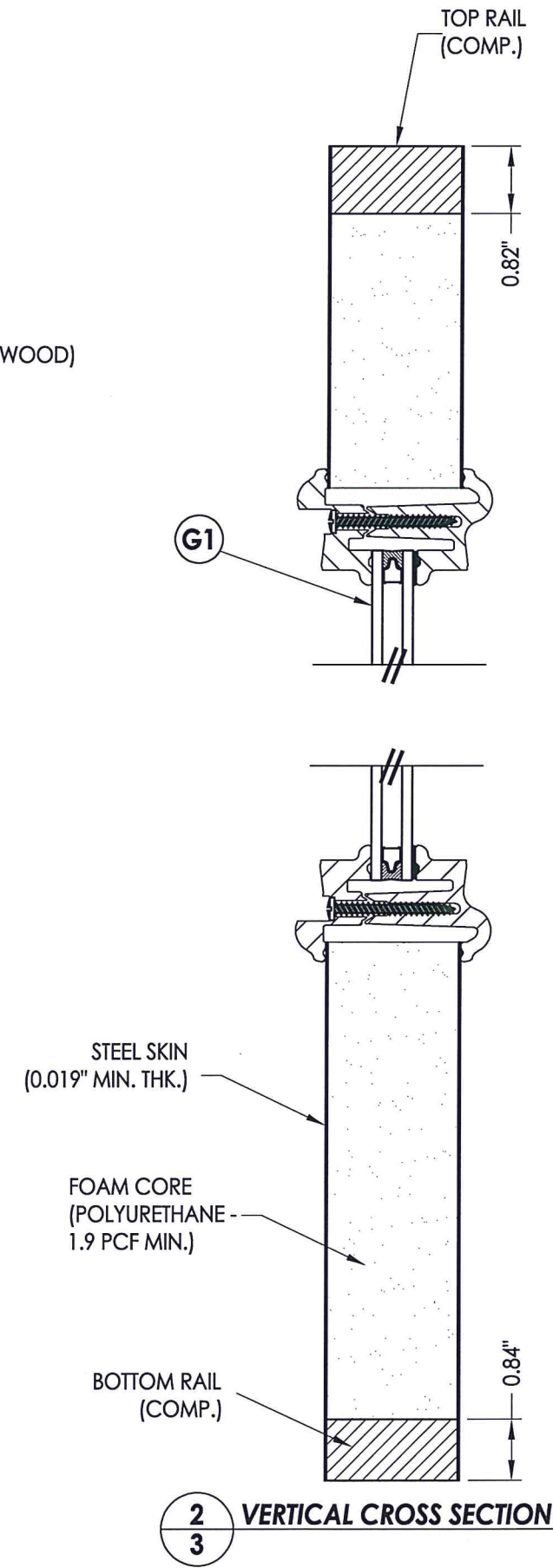
1
3 HORIZONTAL CROSS SECTION



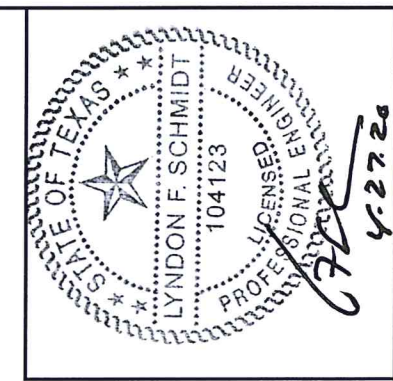
3A INTERIOR LITE FRAME
BTS



3B EXTERIOR LITE FRAME
BTS



2
3 VERTICAL CROSS SECTION



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

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

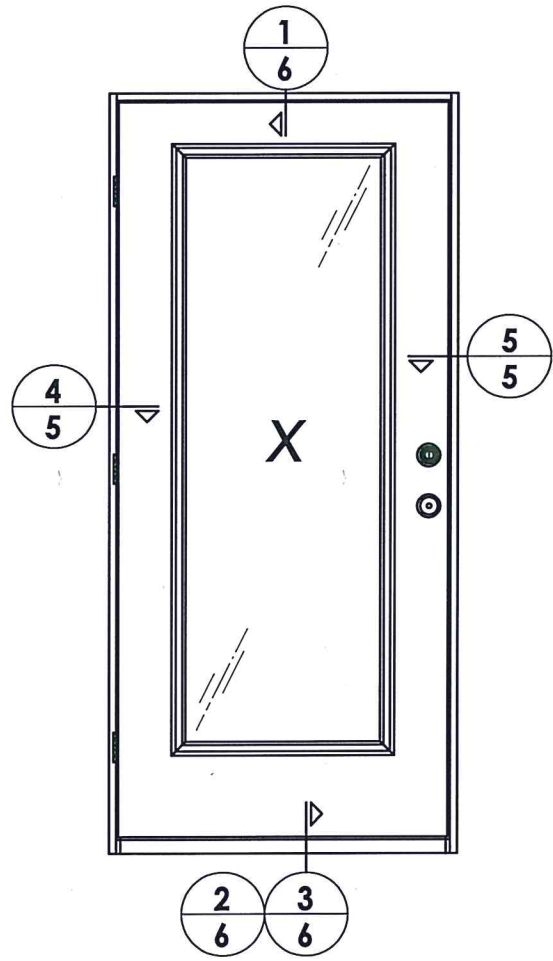
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU STEEL DOOR

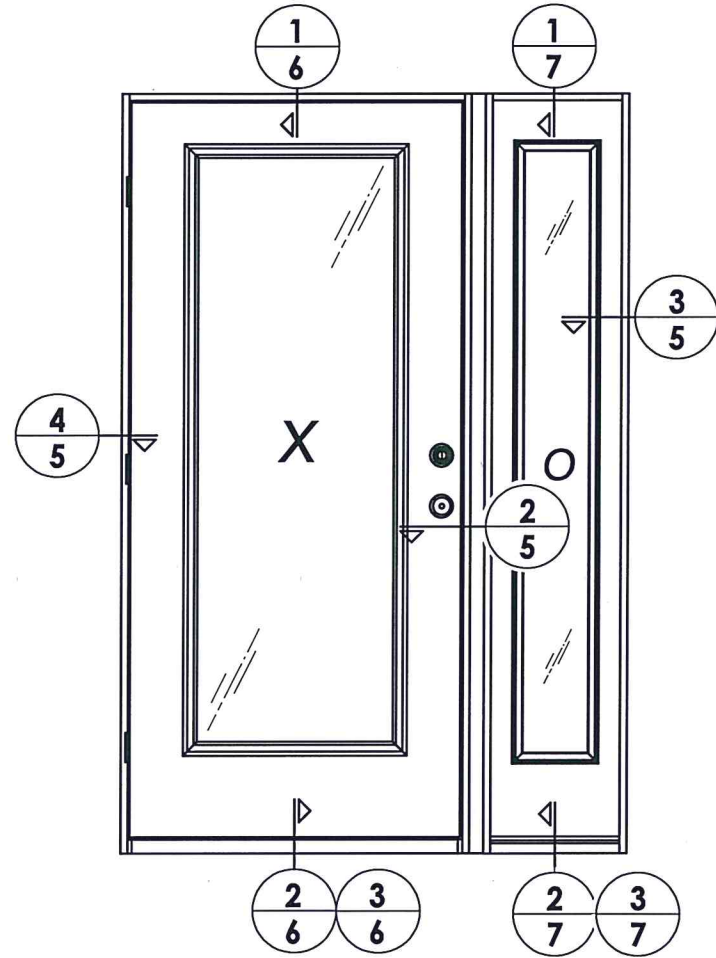
PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAIL

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	4/27/20			

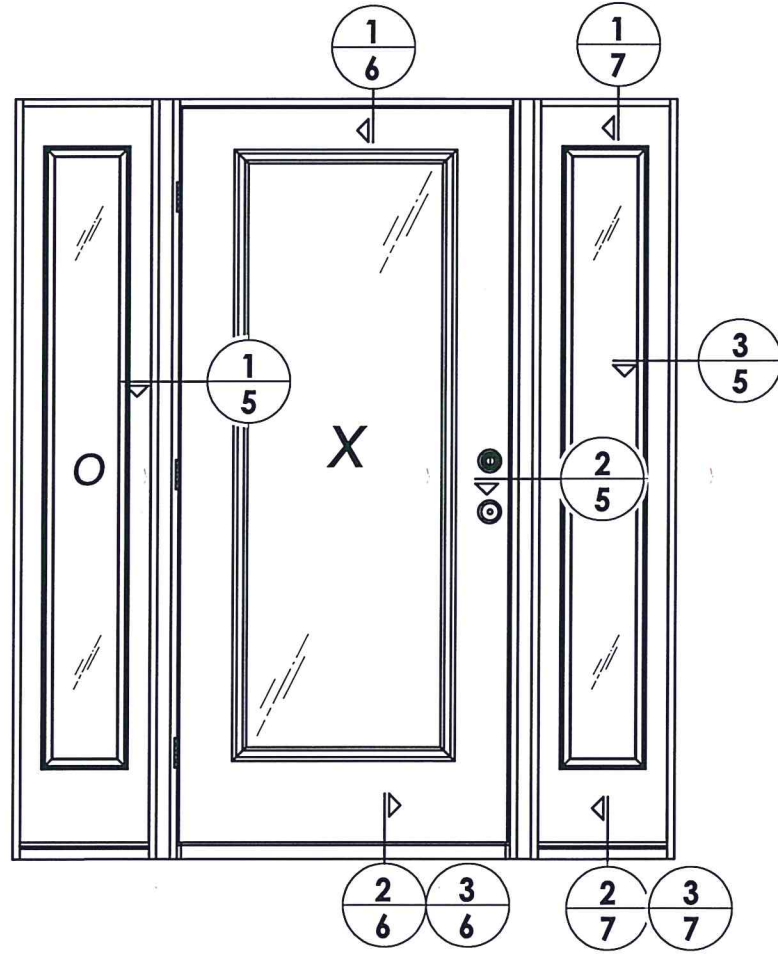
DATE: 08/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4230
SHEET 3 OF 10



ELEVATION (X)



ELEVATION (OX / XO)



ELEVATION (OXO)

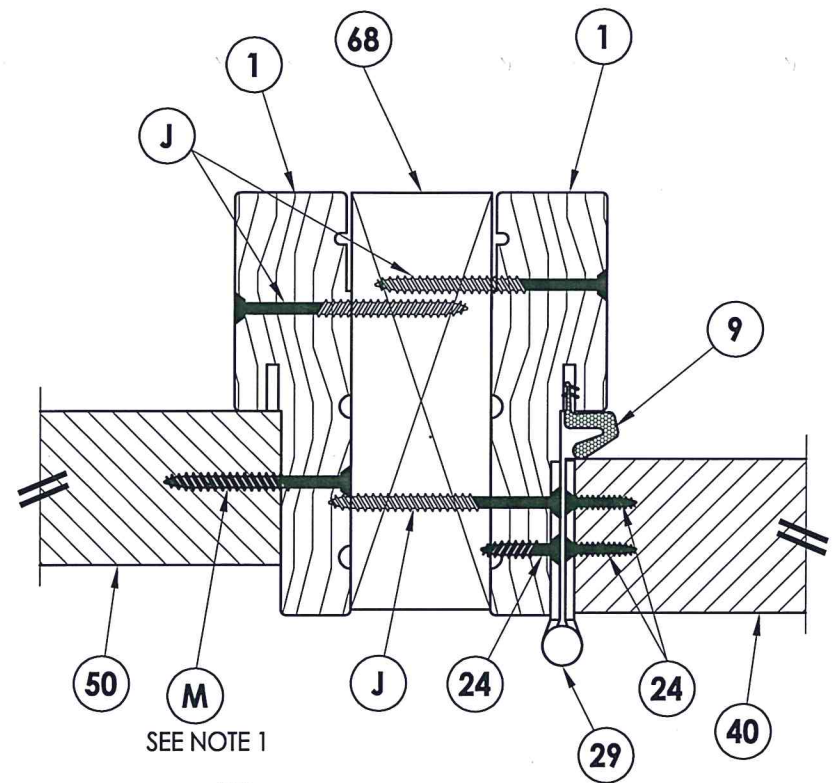


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

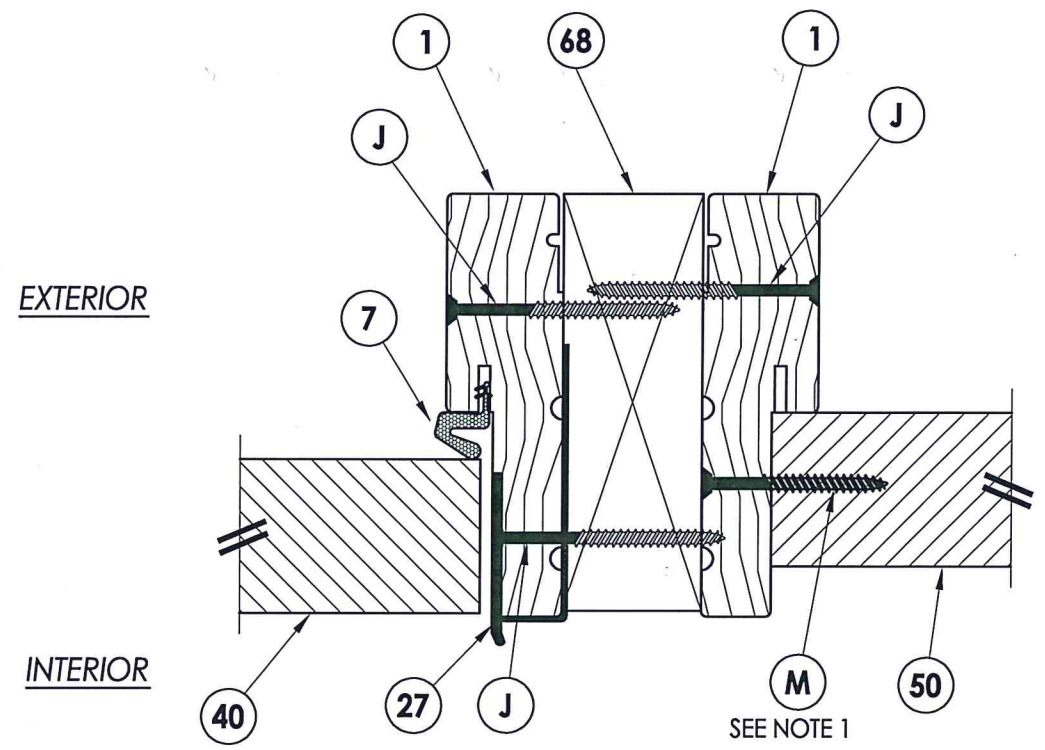
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY: ELEVATIONS	
NO.	REVISIONS
1	4/27/20 UPDATE TO 2018 IBC/IRC CODE
	LFS
	BY
DATE: 08/16/12	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: TX-4230	
SHEET 4 OF 10	

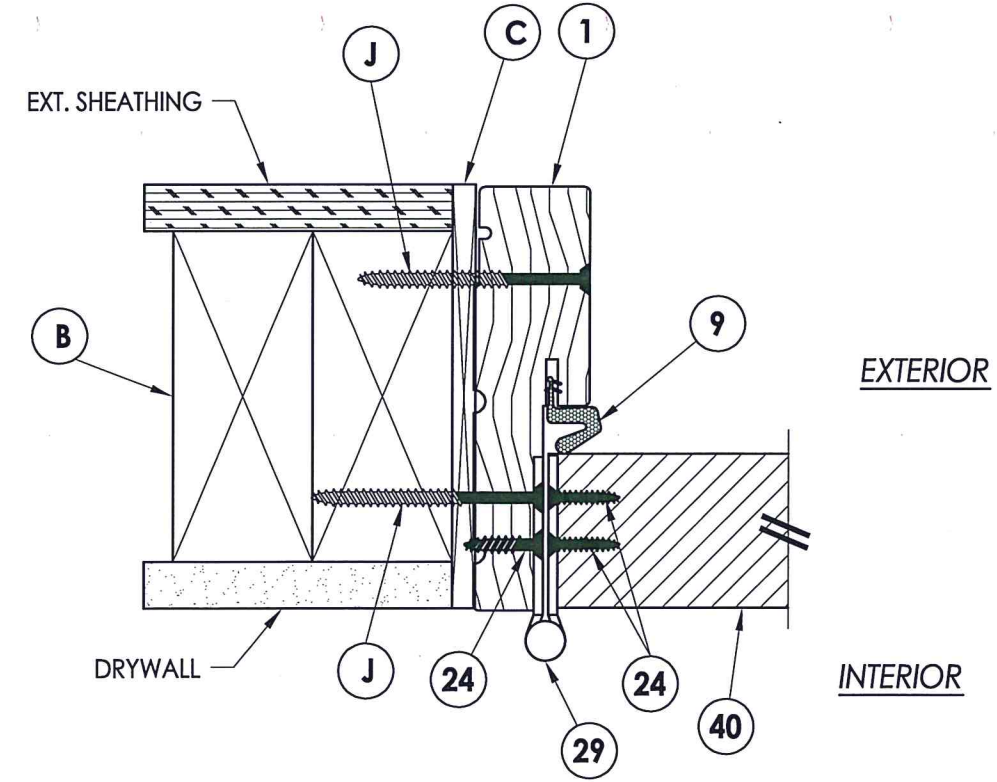
R:\Clients\Therma Tru Permanent\B - Texas Dept of Ins\TDI - DR 604 - 68 Glazed Profiles Steel Non-Impact w-wo Sidelites\C - Drawings\TX-4230-31.dwg, 5



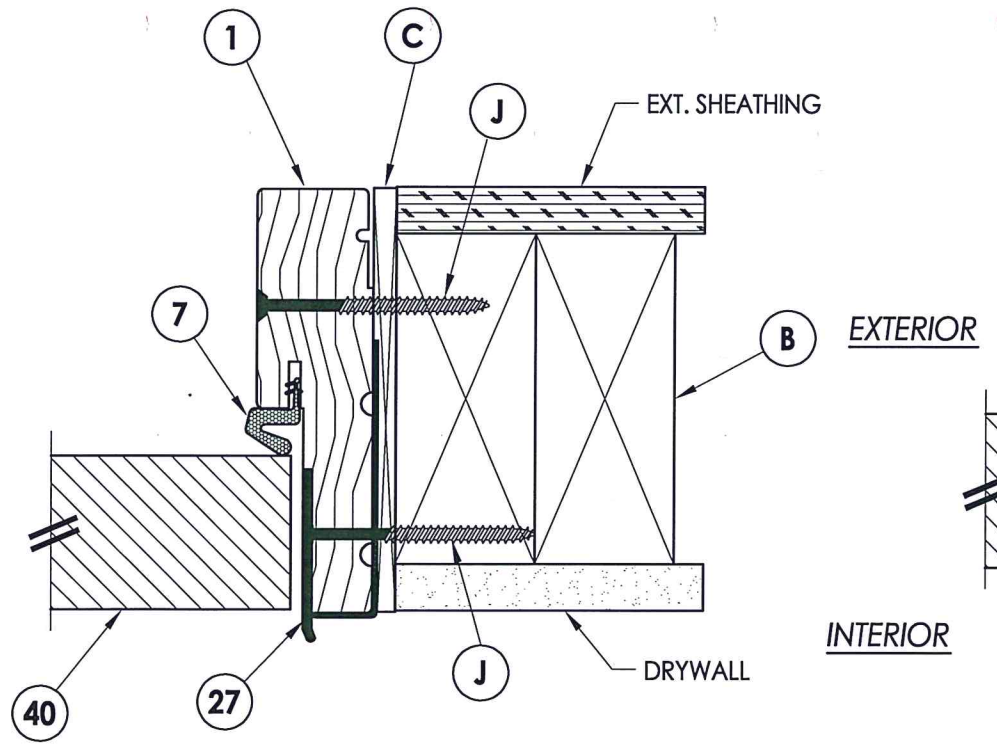
1 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



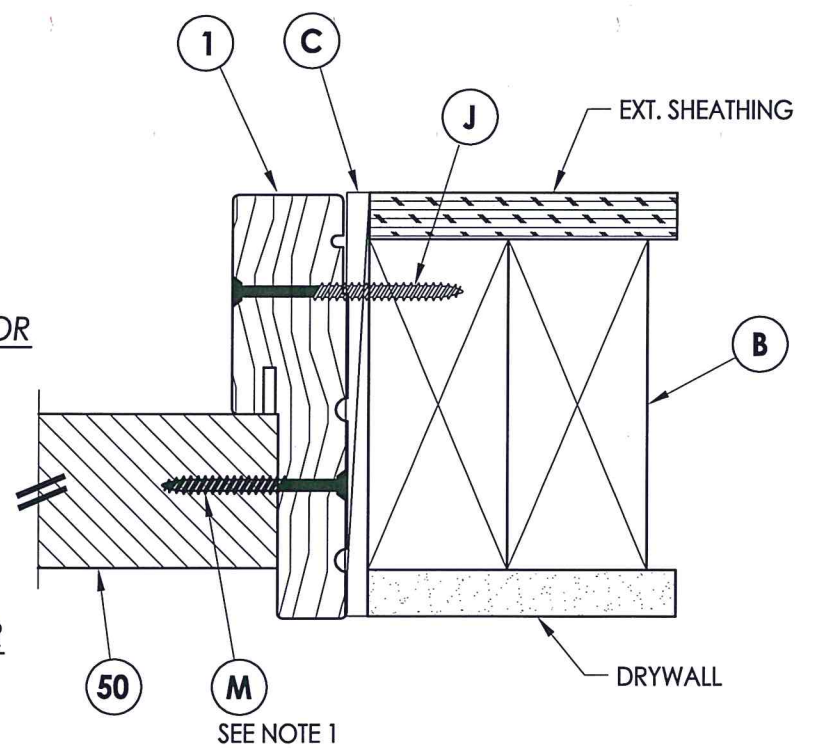
2 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



4 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



5 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



3 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved

Note:
 1. Sidelite assembly screws located 6" from each end plus 4 more equally spaced (6 total).



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

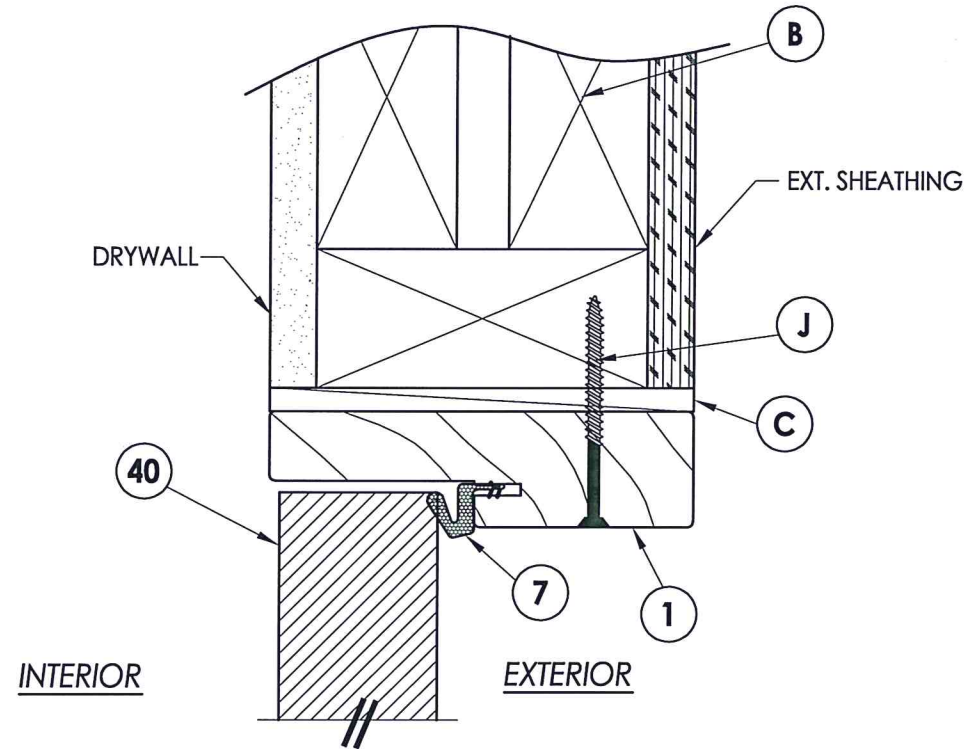
PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

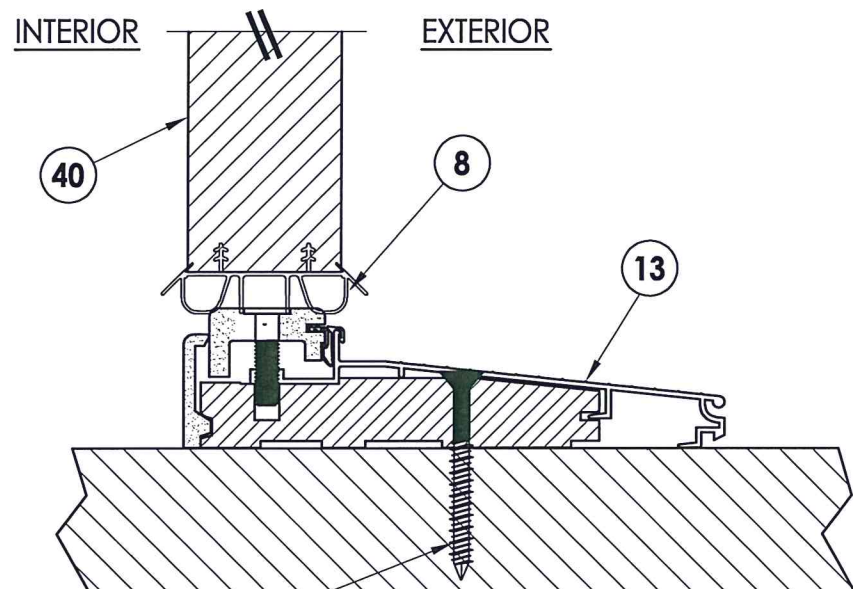
NO.	DATE	DESCRIPTION	LFS	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE		

DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 5 OF 10

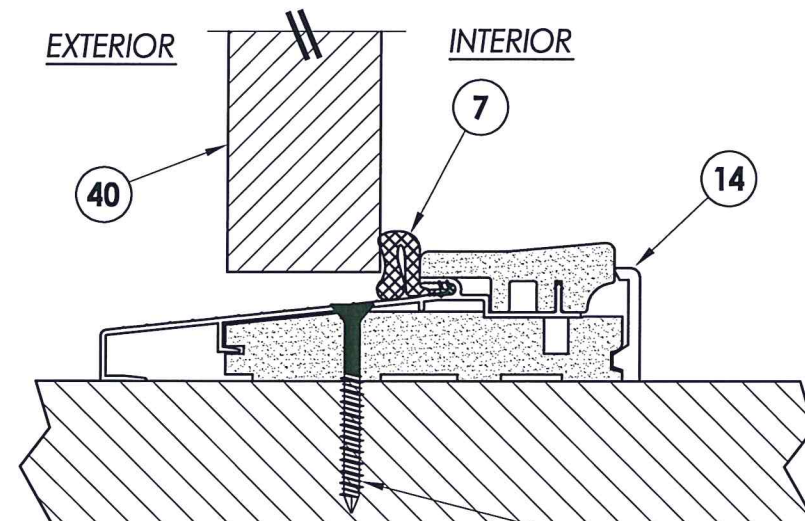
R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 604 - 68 Glazed Profiles Steel Non-Impact w-wo Sidelites\C - Drawings\TX-4230-31.dwg, 6



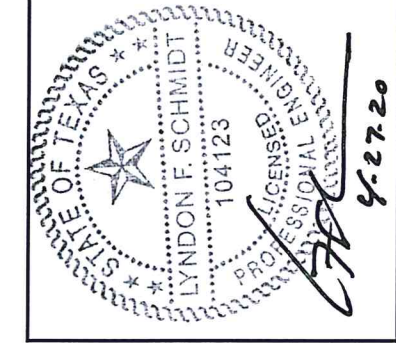
1 VERTICAL CROSS SECTION
6 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
6 Inswing configuration



3 VERTICAL CROSS SECTION
6 Outswing configuration



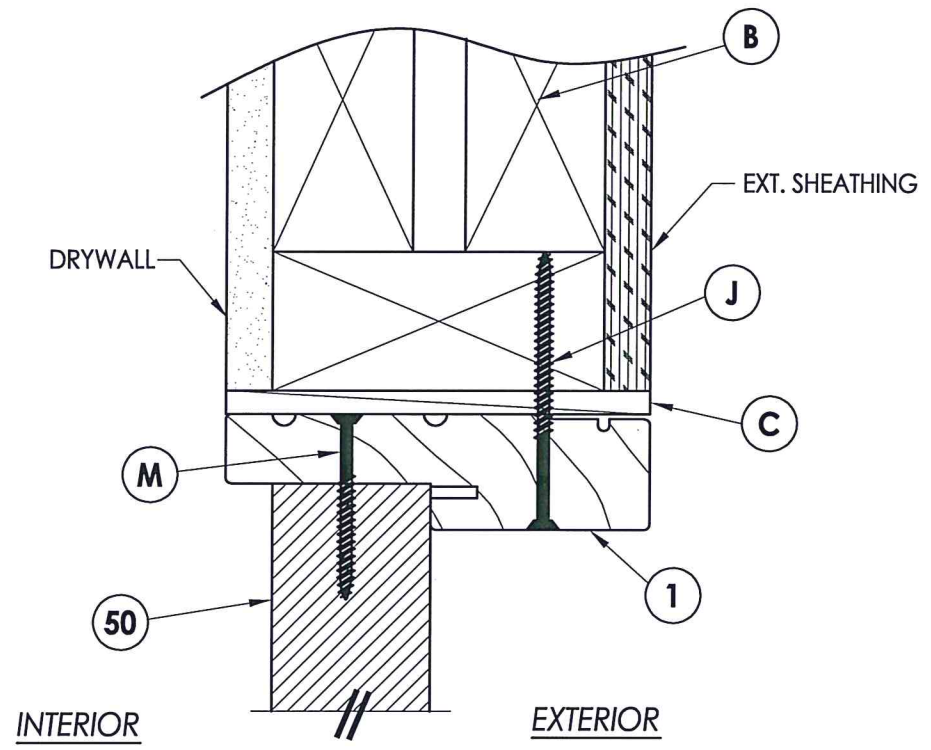
Documents Prepared By: Lyndon F. Schmidt, P.E.
 TEXAS P.E. #104123

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

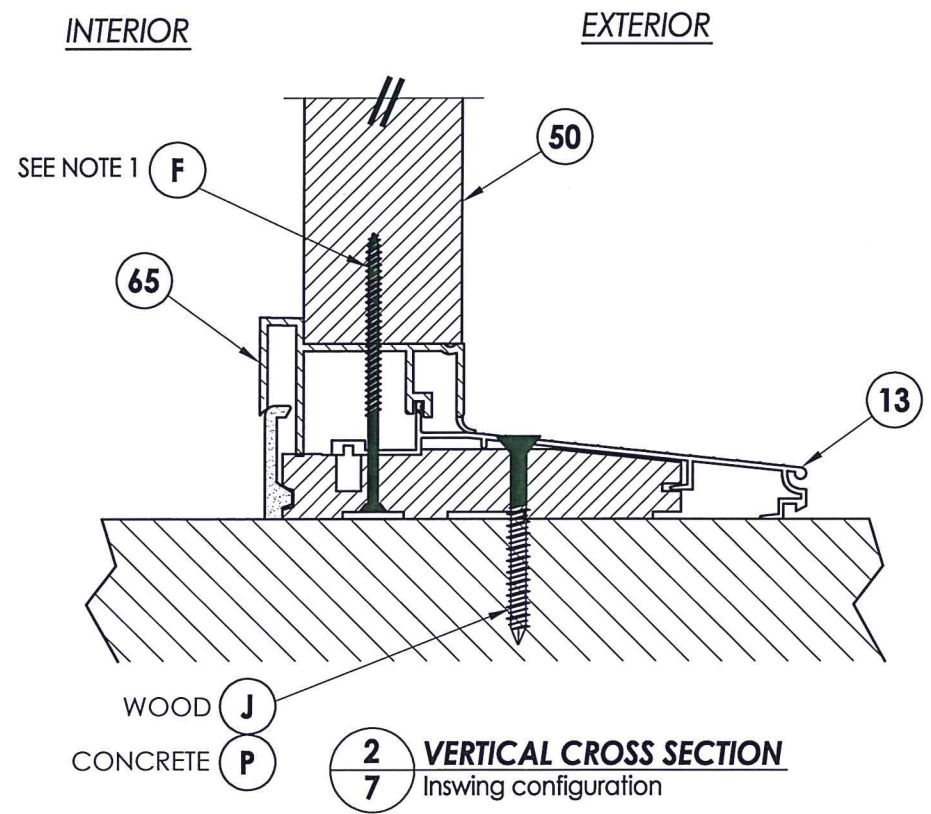
PRODUCT: THERMA-TRU STEEL DOOR
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	LFS	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE	LFS	BY

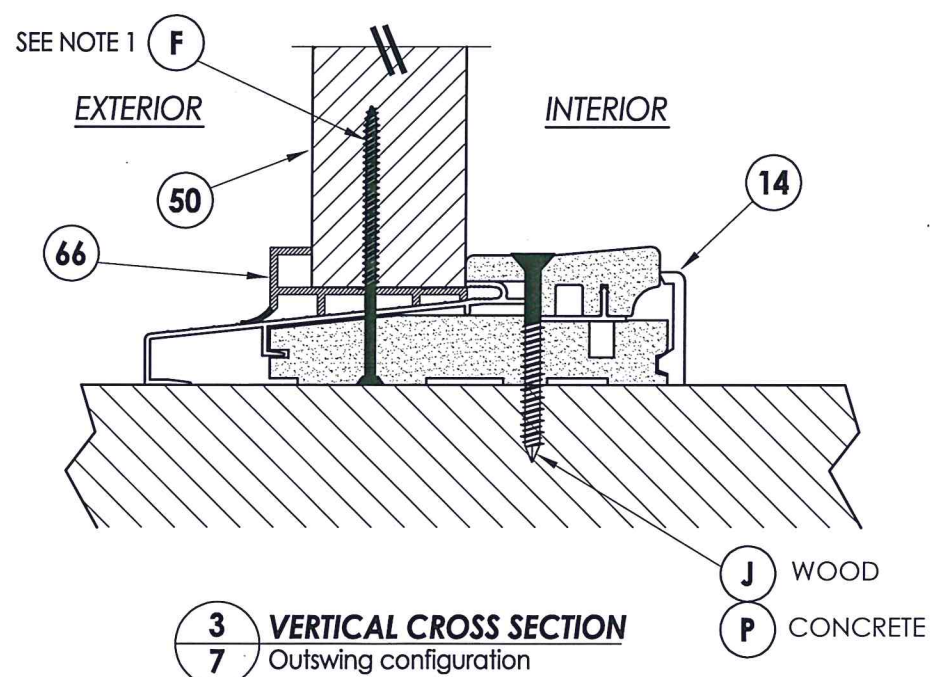
DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 6 OF 10



1 VERTICAL CROSS SECTION
7 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
7 Inswing configuration



3 VERTICAL CROSS SECTION
7 Outswing configuration

Note:
 1. Sidelite assembly screws located 3" from each end (2 total).



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 STEEL DOOR

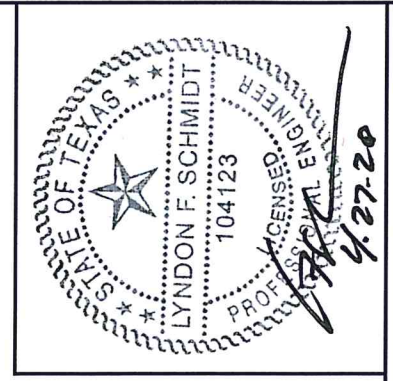
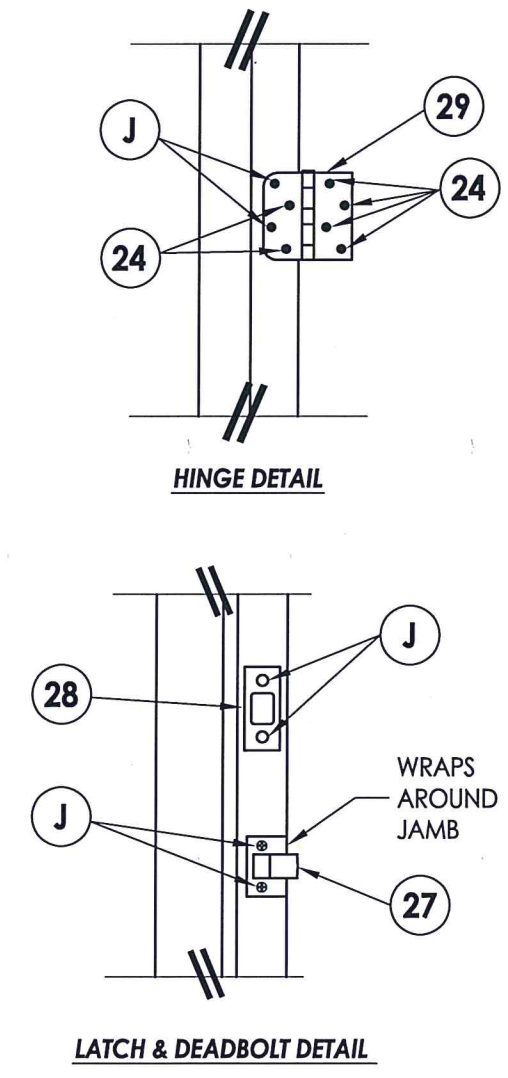
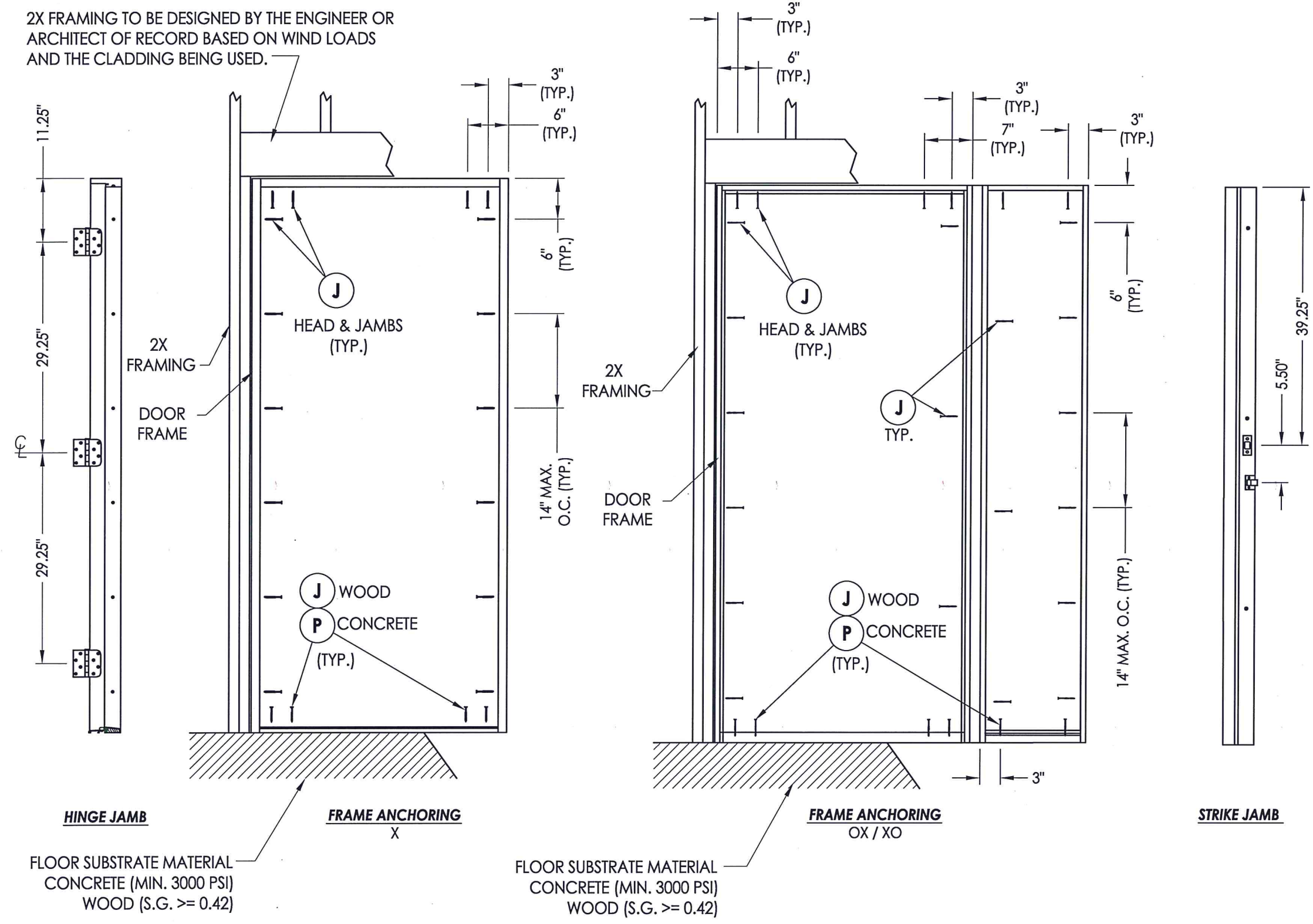
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	DESCRIPTION	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 7 of 10

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 604 - 68 Glazed Profiles Steel Non-Impact w-wo Sidelites\C - Drawings\TX-4230-31.dwg, 8

2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD BASED ON WIND LOADS AND THE CLADDING BEING USED.



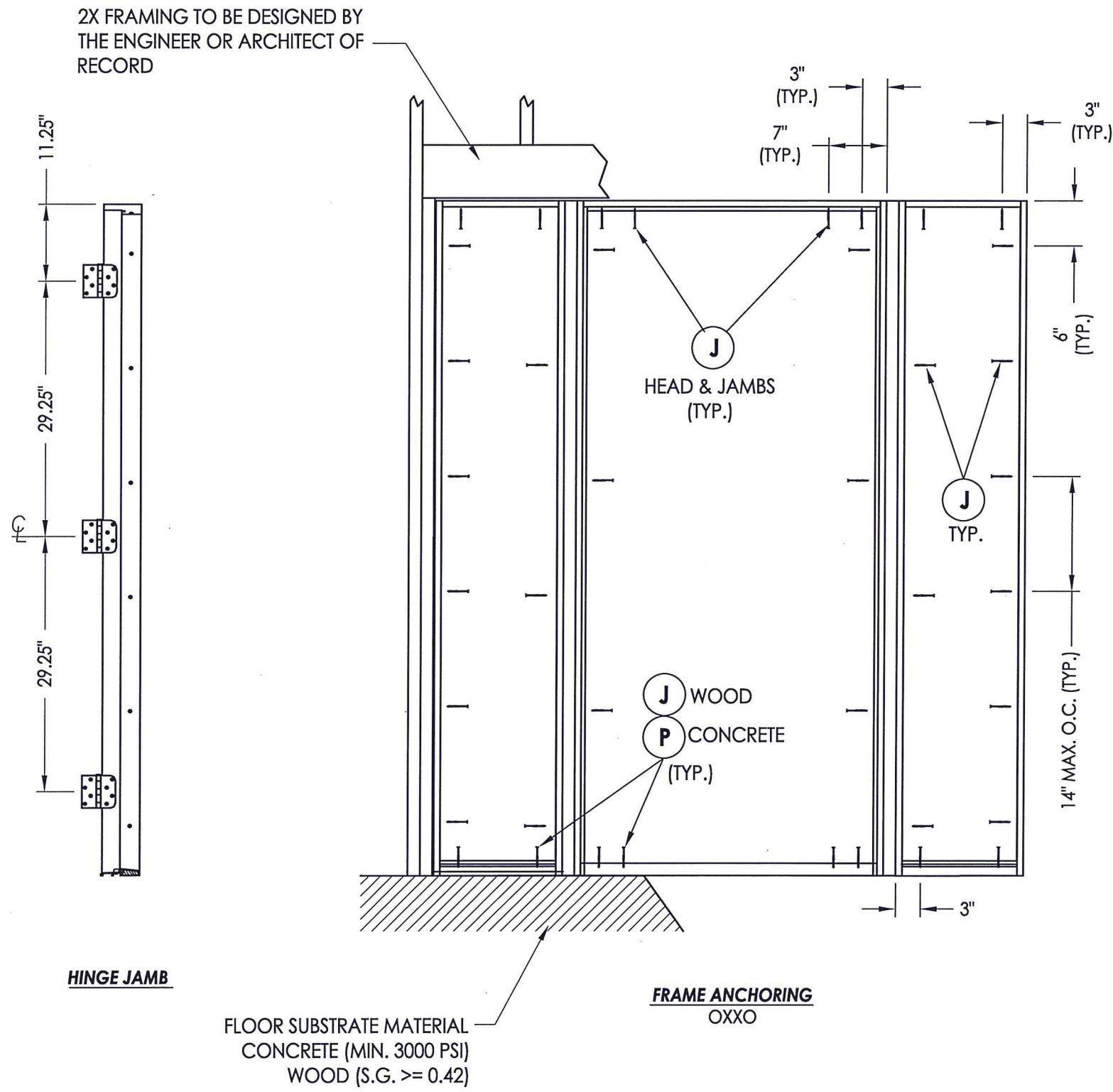
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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 STEEL DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING	
NO.	DATE	DESCRIPTION	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			
DATE: 08/16/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4230			
SHEET 8 OF 10			

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 604 - 68 Glazed Profiles Steel Non-Impact w-wo Sidelites\C - Drawings\TX-4230-31.dwg, 9



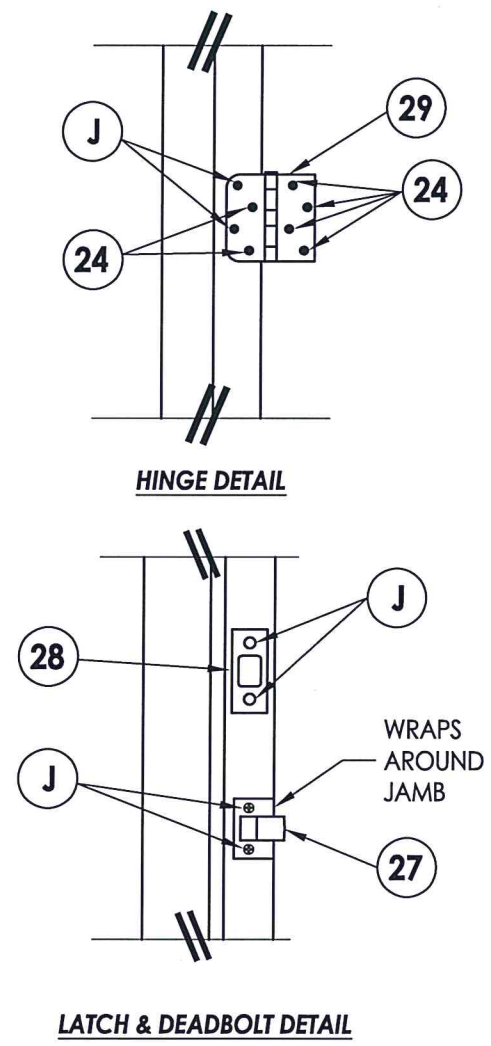
2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD

HINGE JAMB

FLOOR SUBSTRATE MATERIAL
 CONCRETE (MIN. 3000 PSI)
 WOOD (S.G. >= 0.42)

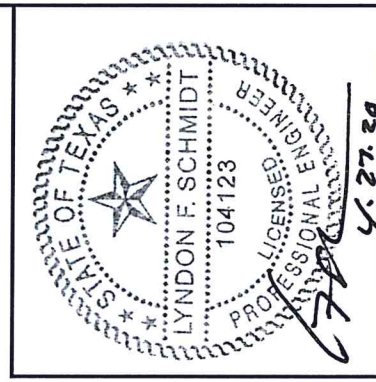
**FRAME ANCHORING
 OXXO**

STRIKE JAMB



HINGE DETAIL

LATCH & DEADBOLT DETAIL



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-11652

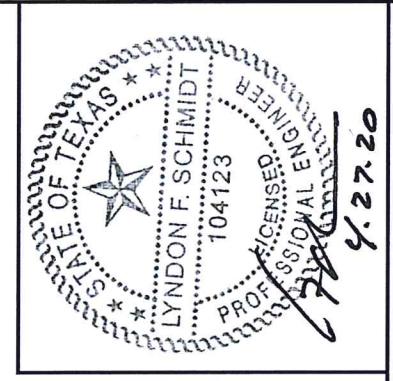
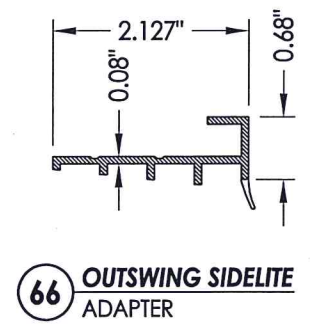
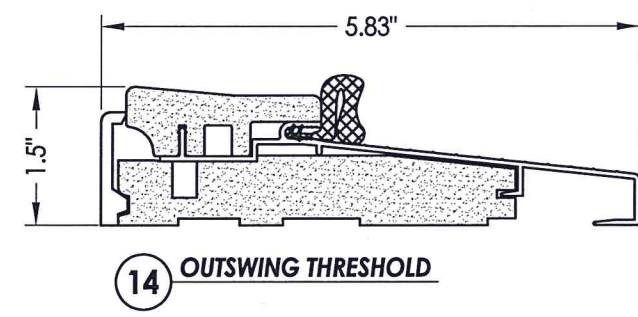
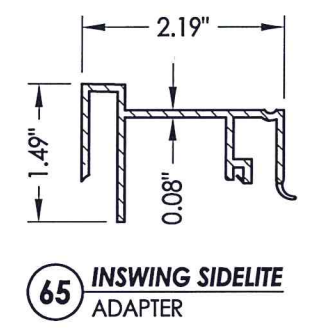
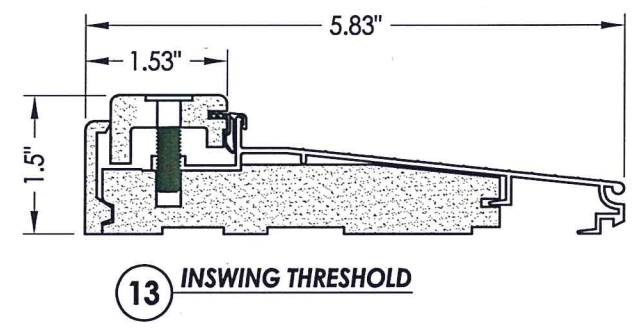
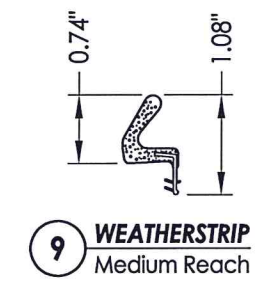
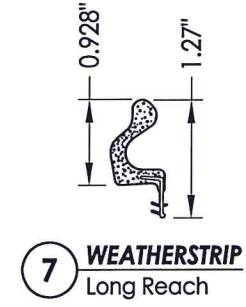
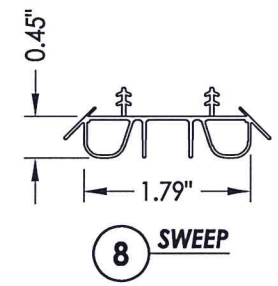
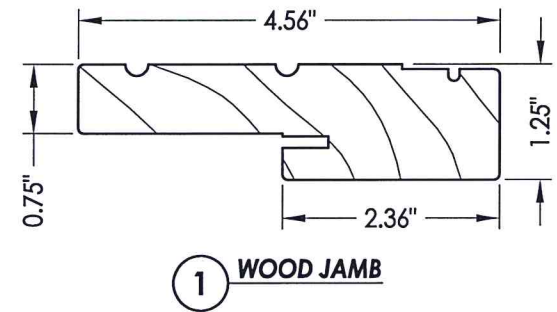
PRODUCT: THERMA-TRU STEEL DOOR
 PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	DESCRIPTION	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 9 OF 10

R:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - DR 604 - 68 Glazed Profiles Steel Non-Impact w-wo Sidelites\C - Drawings\TX-4230-31.dwg, 10

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 3" PFH WOOD SCREW	STEEL
J	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (Long Reach by Therma-Tru)	FOAM
8	SWEEP	VINYL
9	WEATHERSTRIP (Medium Reach by Therma-Tru)	FOAM
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
24	#10 x 1" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	-
50	SIDELITE PANEL	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC
68	2X MULLION (SG >= 0.55)	WOOD



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 STEEL DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	DESCRIPTION	LFS	BY
1	4/27/20	UPDATE TO 2018 IBC/IRC CODE		

REVISIONS

DATE: 08/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4230
SHEET 10 of 10

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