

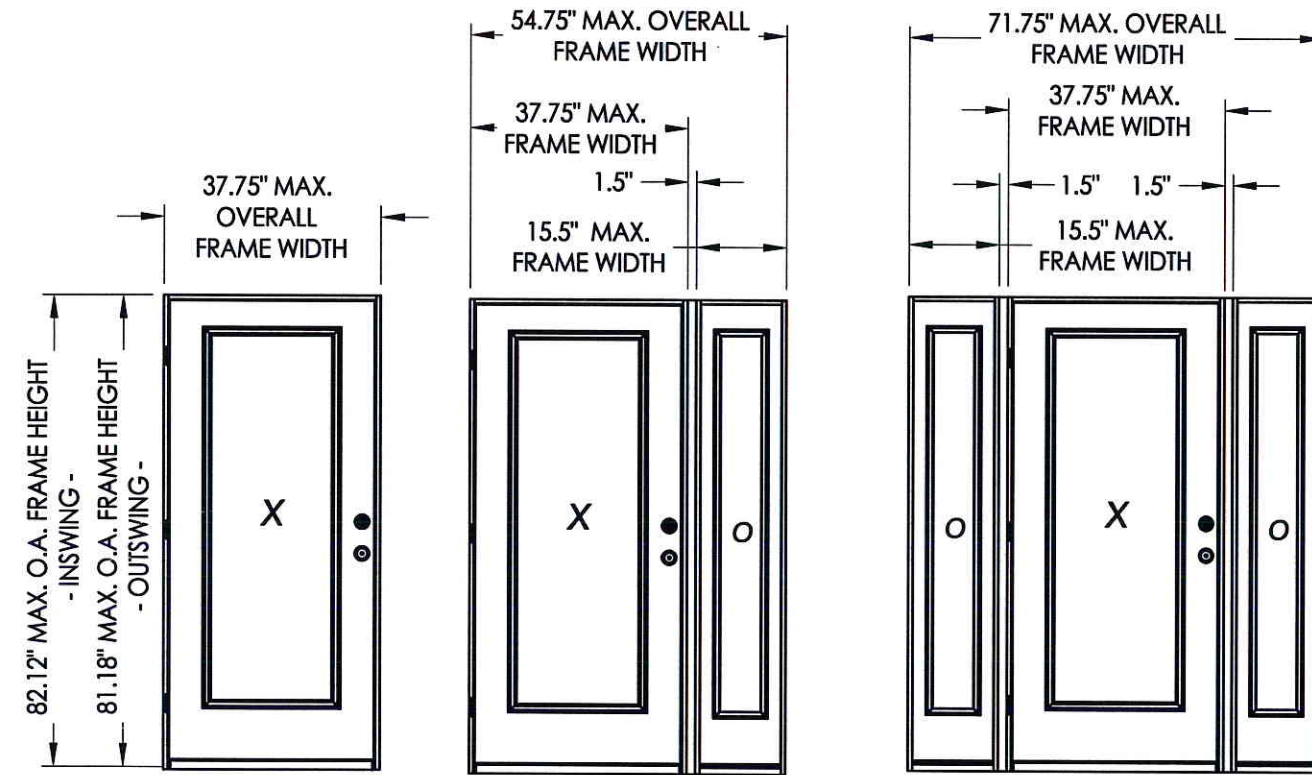
"Profiles" Series Glazed Steel Door w/ or w/o Sidelites "Non-Impact" INSWING / OUTSWING



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

RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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



EVALUATED FOR USE IN THE STATE OF TEXAS

The Therma-Tru STEEL DOOR described herein complies with the 2006 International Residential Code (IRC), Sections R301 & R613 and the 2006 International Building Code (IBC), Sections 1405.12, 1609, 1714.5, 2403 and 2404 (including Texas revisions) 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 assembly 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.

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

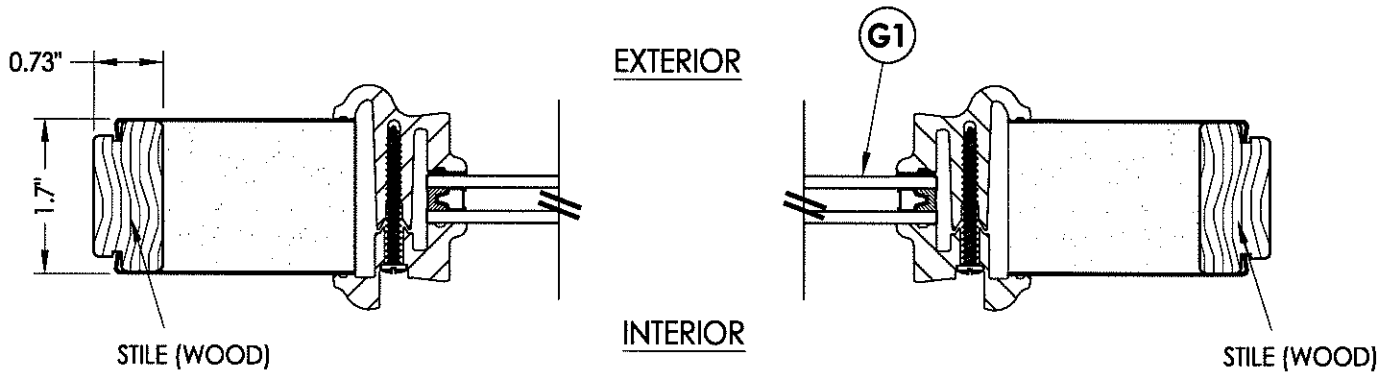
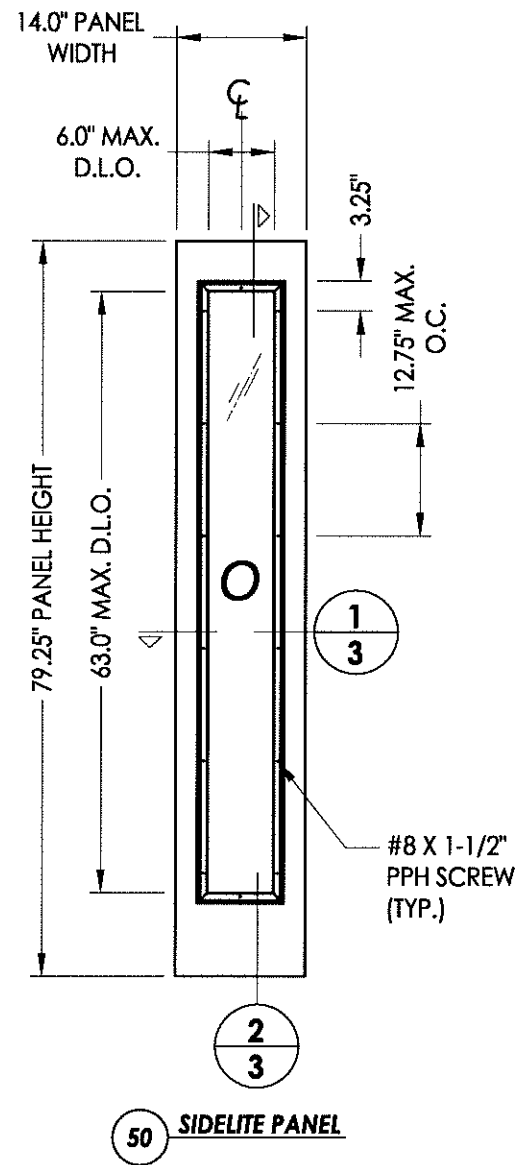
CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	SWING	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
X	37.75" x 82.12"	21.12" x 63.12"	INSWING	+35.0	-40.0
	37.75" x 81.18"		OUTSWING	+40.0	-40.0
OX or XO	54.75" x 82.12"	21.12" x 63.12"	INSWING	+35.0	-40.0
	54.75" x 81.18"		OUTSWING	+40.0	-40.0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

PRODUCT: THERMA-TRU STEEL DOOR

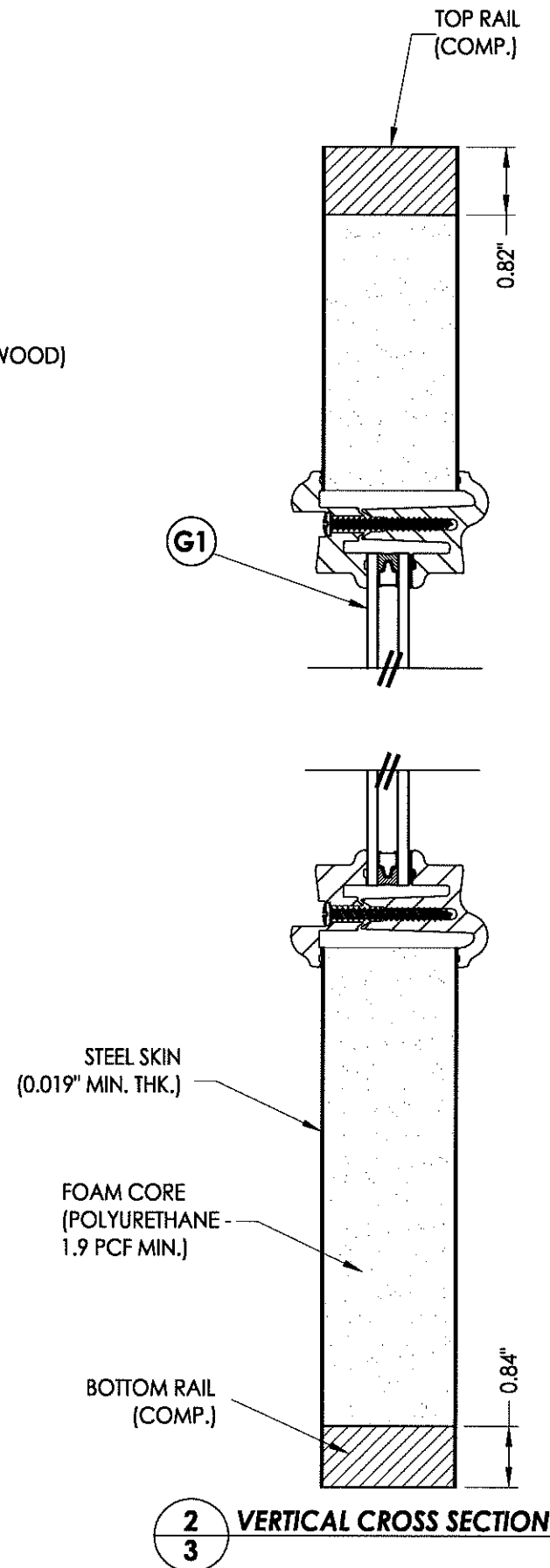
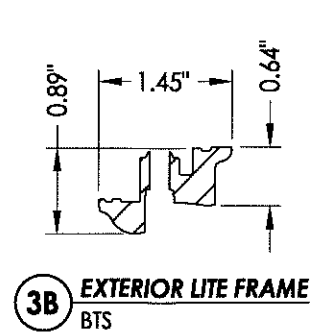
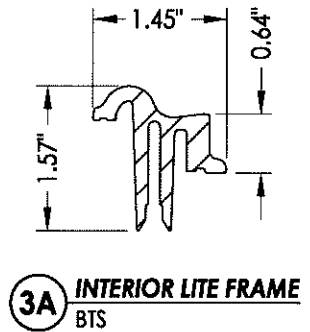
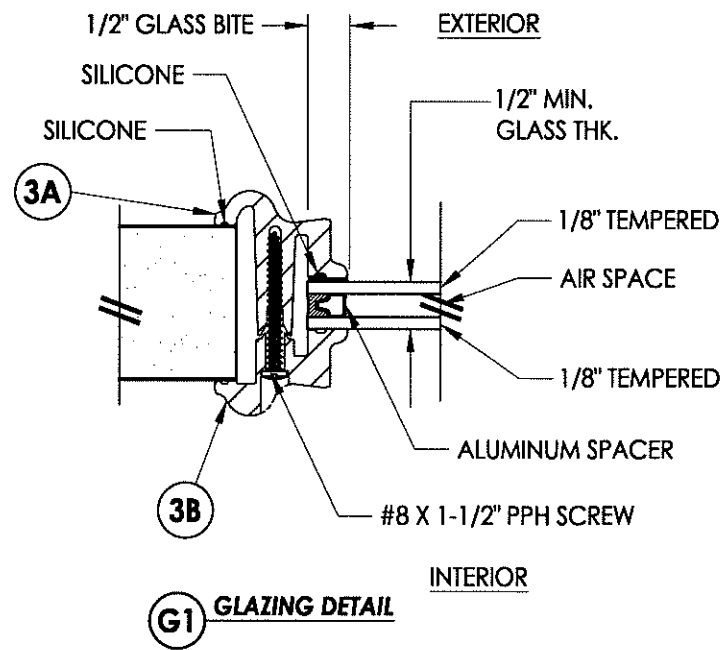
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

NO.	DATE	BY	REVISIONS

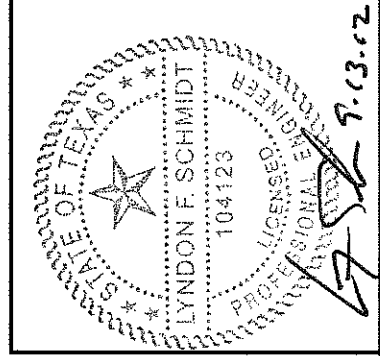
DATE: 08/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4230
SHEET 1 of 10



1
3 HORIZONTAL CROSS SECTION



2
3 VERTICAL CROSS SECTION



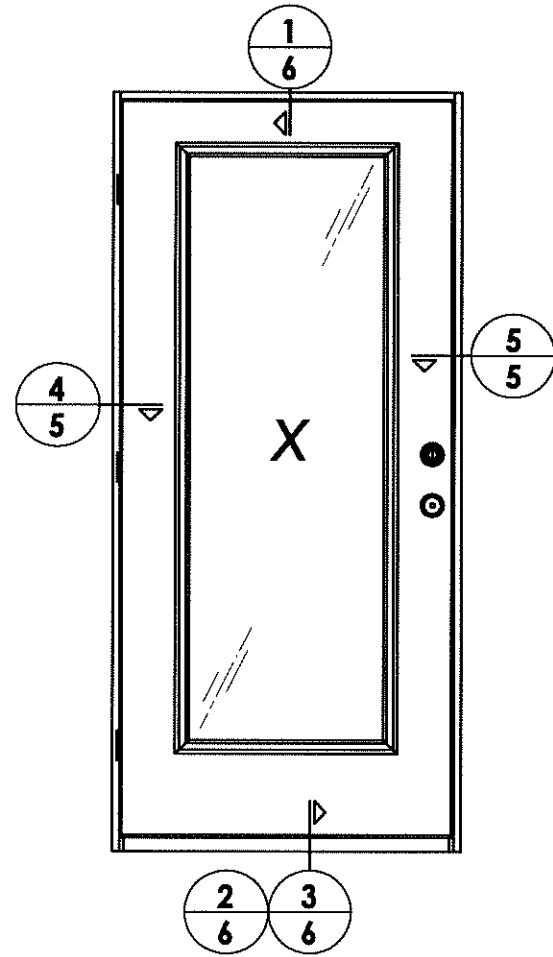
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CERTIFICATE OF REGISTRATION # F-11852

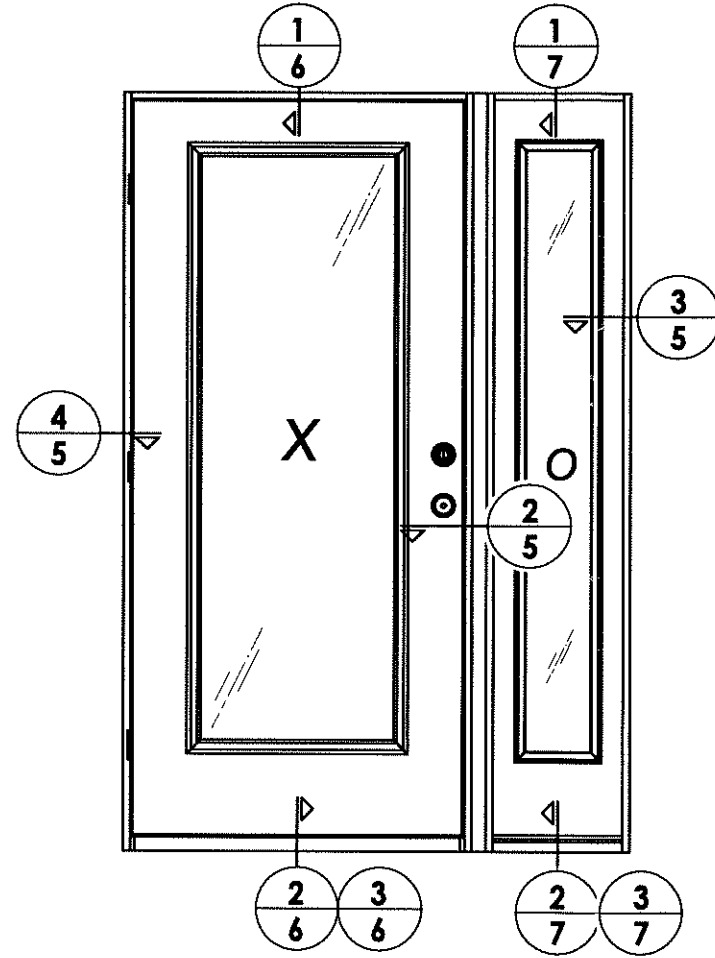
PRODUCT: THERMA-TRU STEEL DOOR
PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAIL

NO.	DATE	BY	REVISIONS

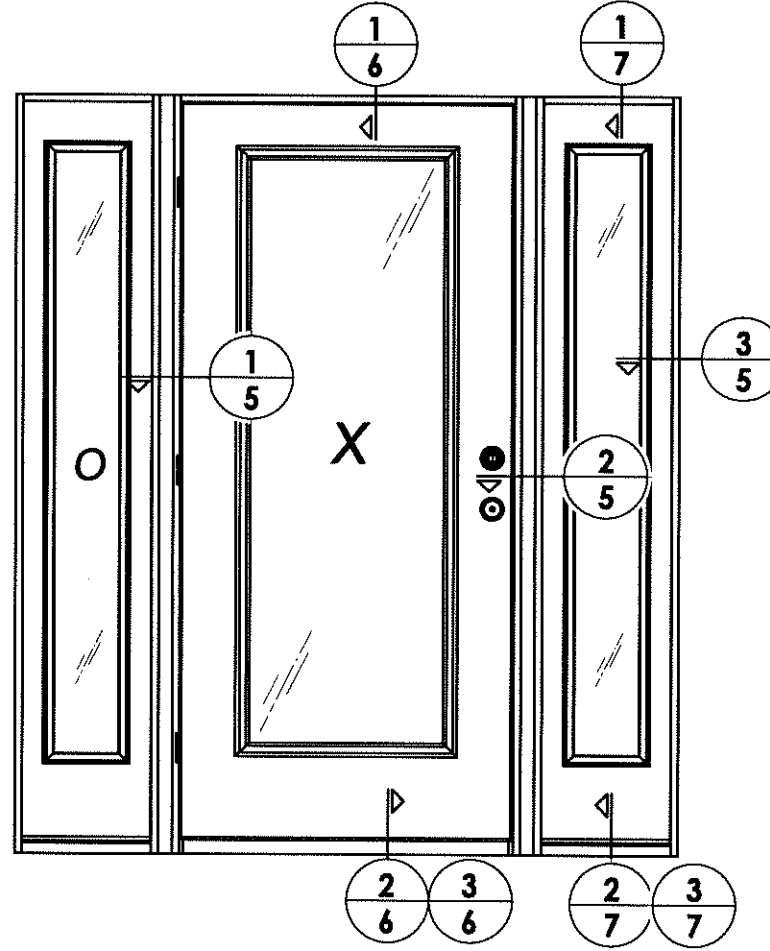
DATE: 08/16/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4230
SHEET 3 OF 10



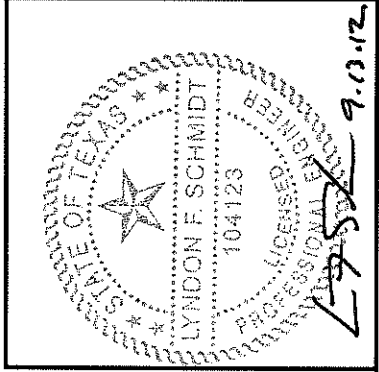
ELEVATION (X)



ELEVATION (OX / XO)



ELEVATION (OXO)



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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	BY

DATE: 08/16/12

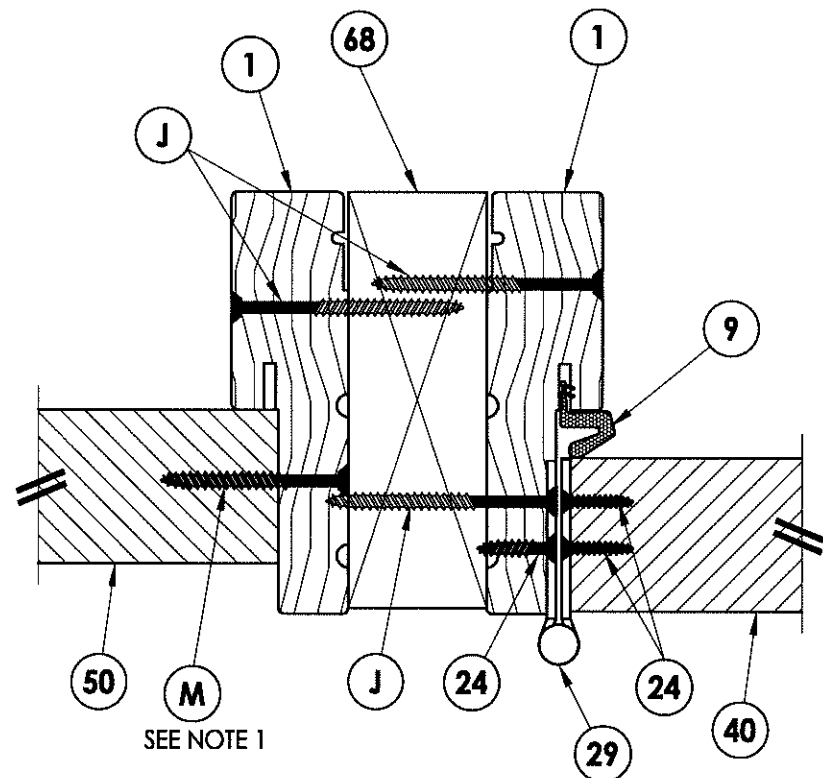
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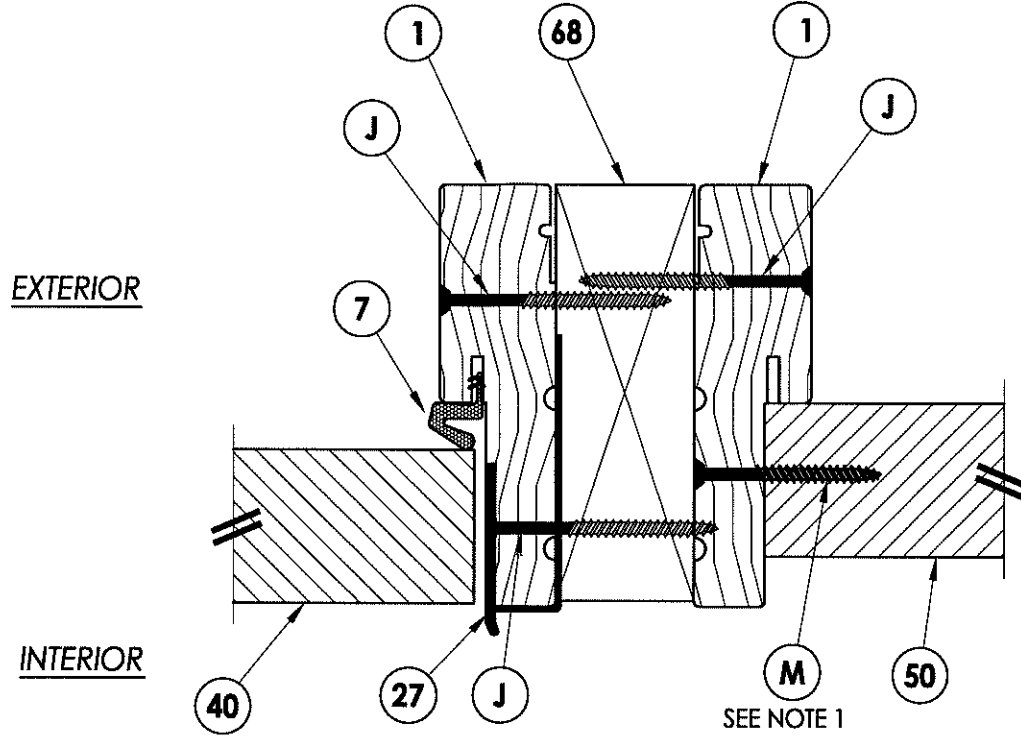
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DRAWING NO.: TX-4230

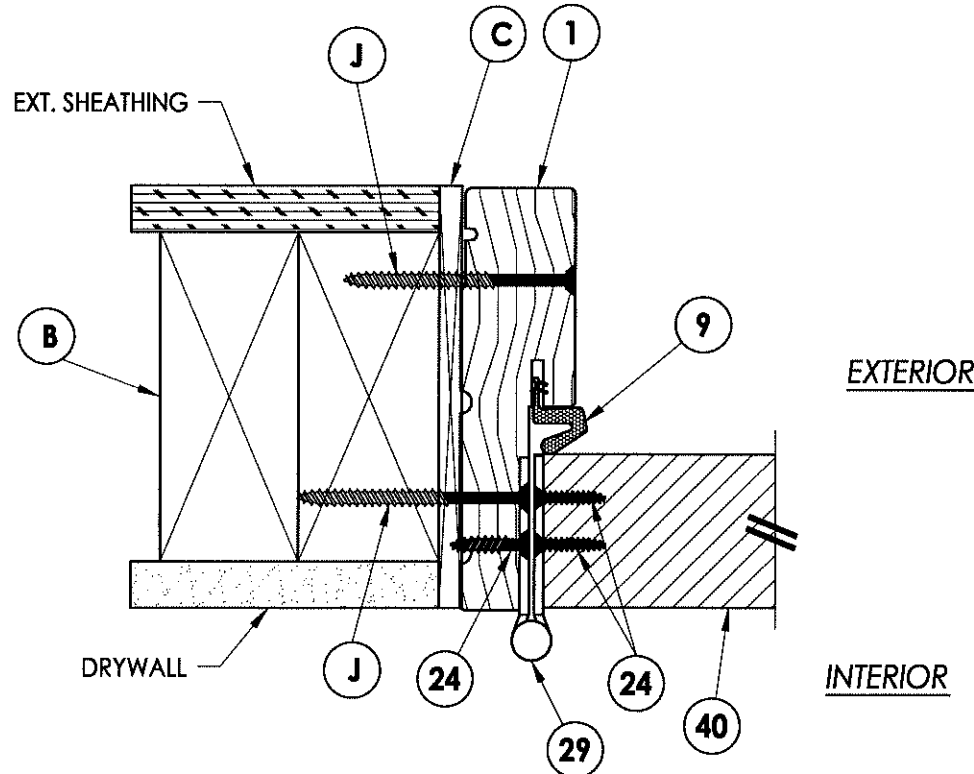
SHEET 4 OF 10



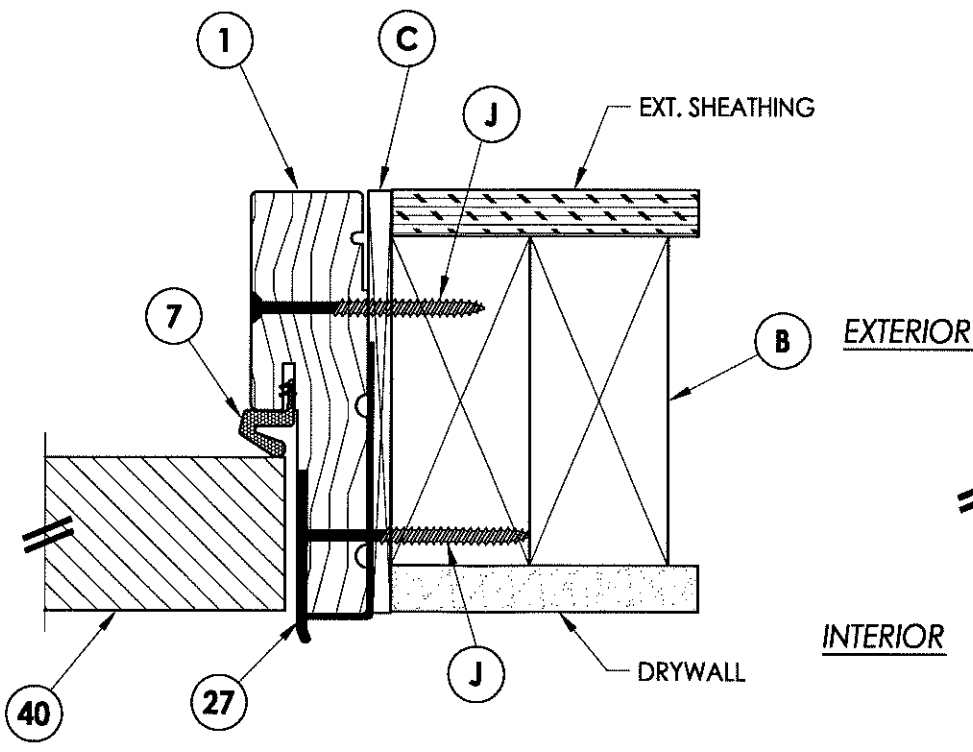
1 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



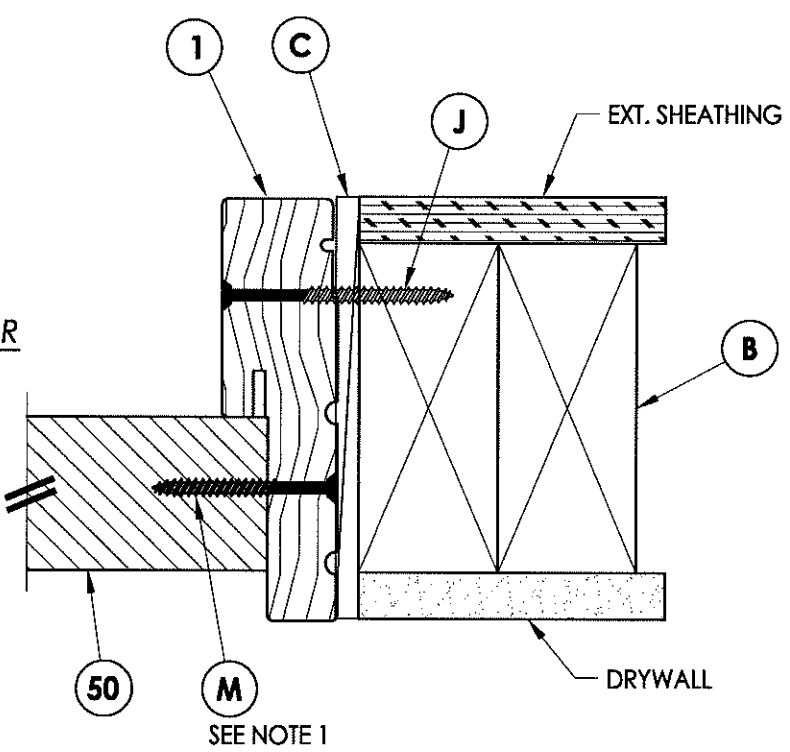
2 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



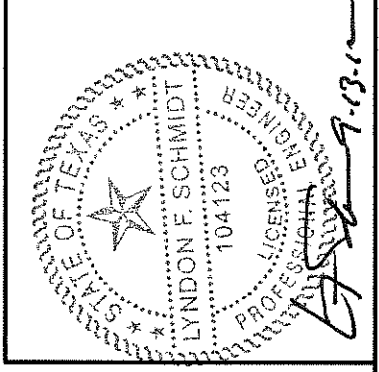
4 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



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).

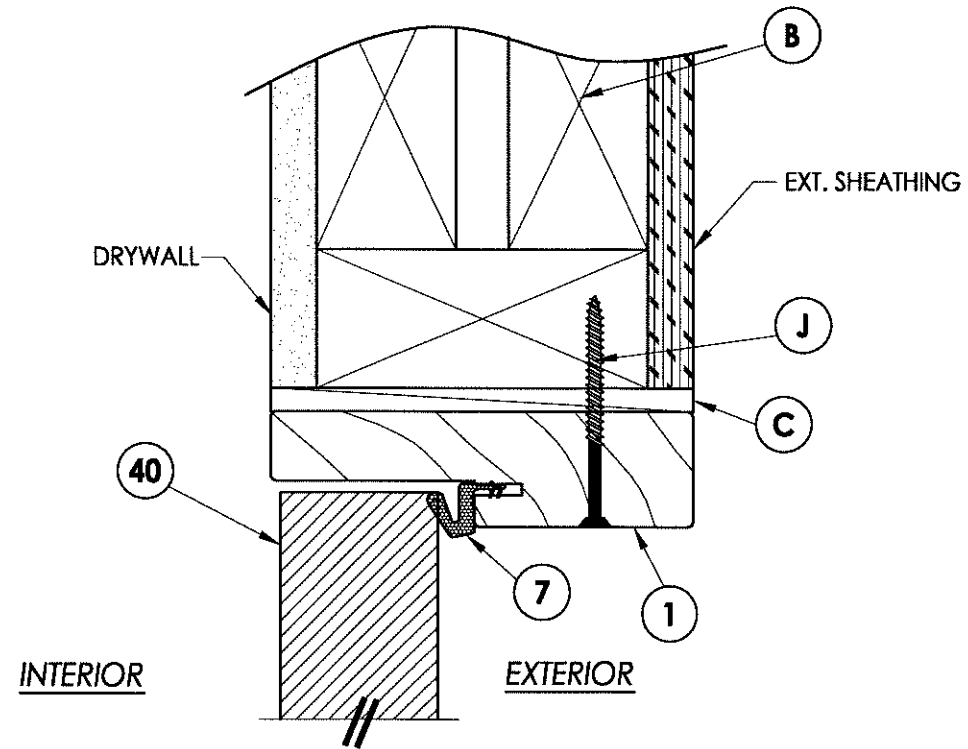
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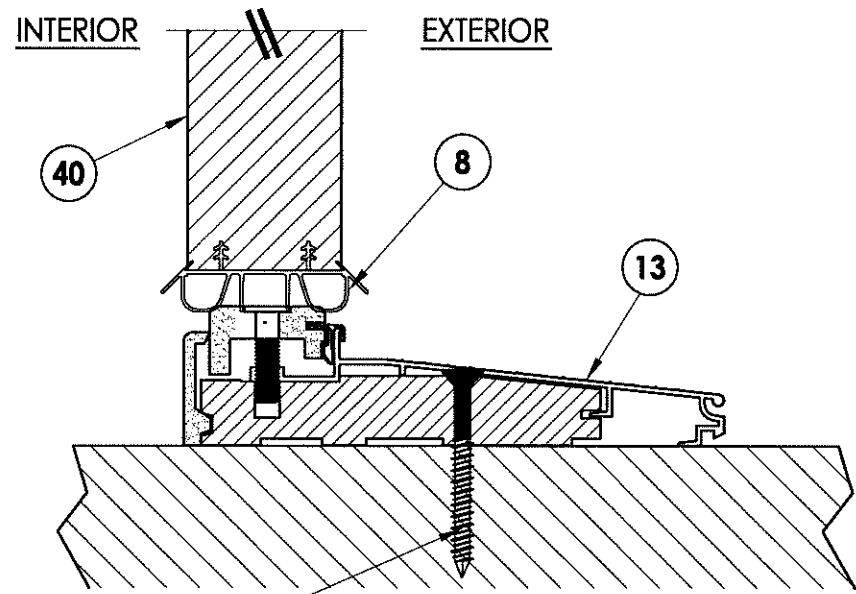
PRODUCT: THERMA-TRU STEEL DOOR
 PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	BY

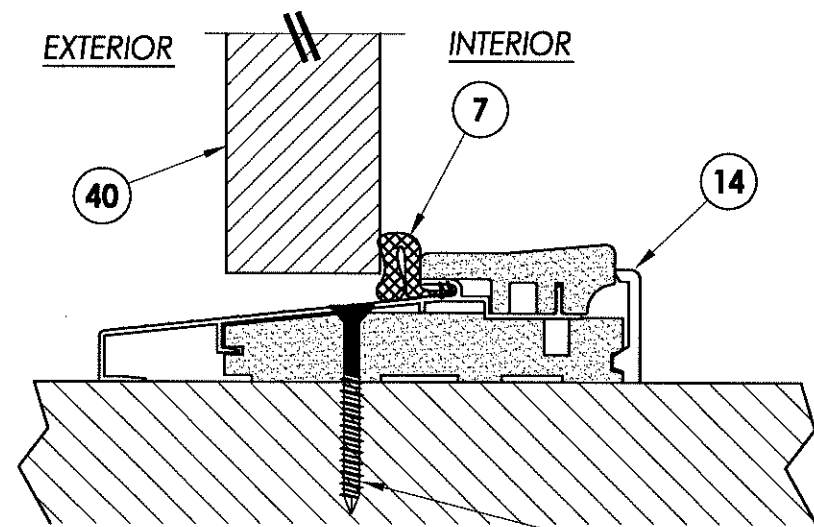
DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 5 OF 10



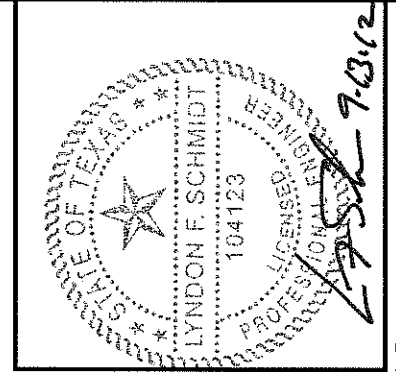
1 VERTICAL CROSS SECTION
6 Inswing shown - Outswing also approved



J WOOD
P CONCRETE
2 VERTICAL CROSS SECTION
6 Inswing configuration



J WOOD
P CONCRETE
3 VERTICAL CROSS SECTION
6 Outswing configuration

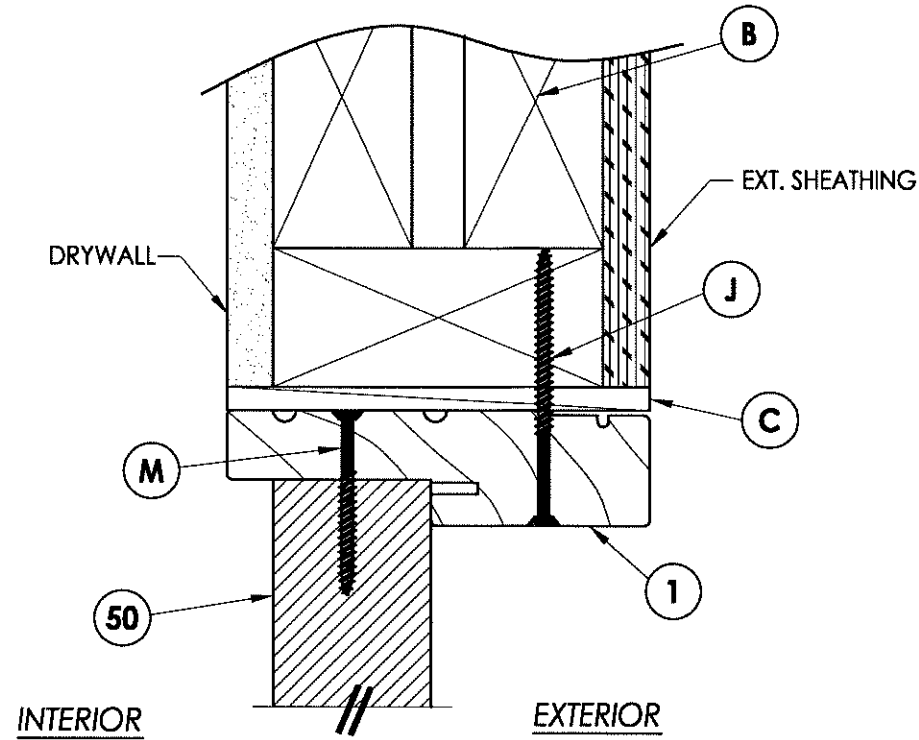


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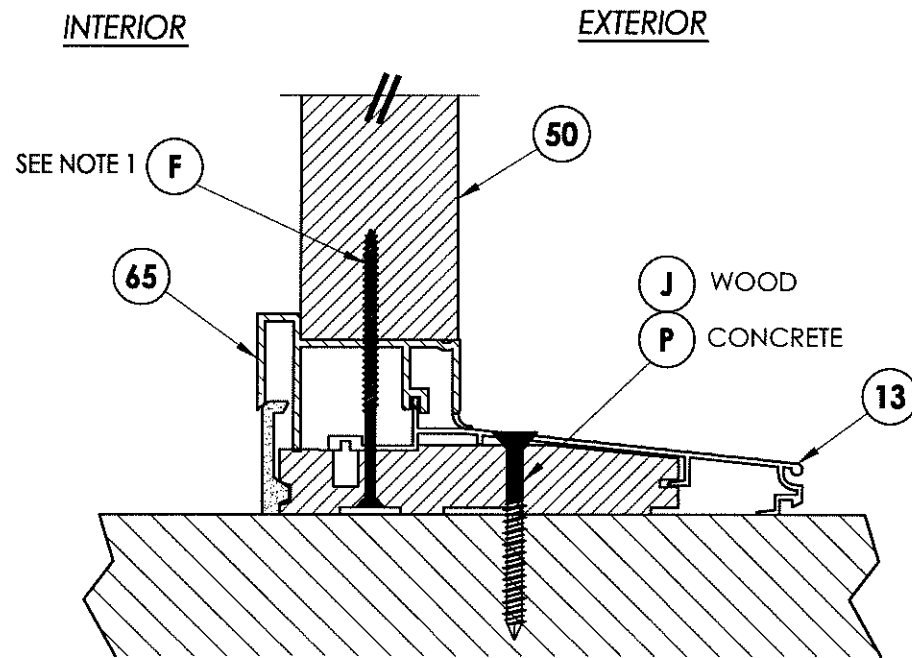
PRODUCT: THERMA-TRU STEEL DOOR
 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

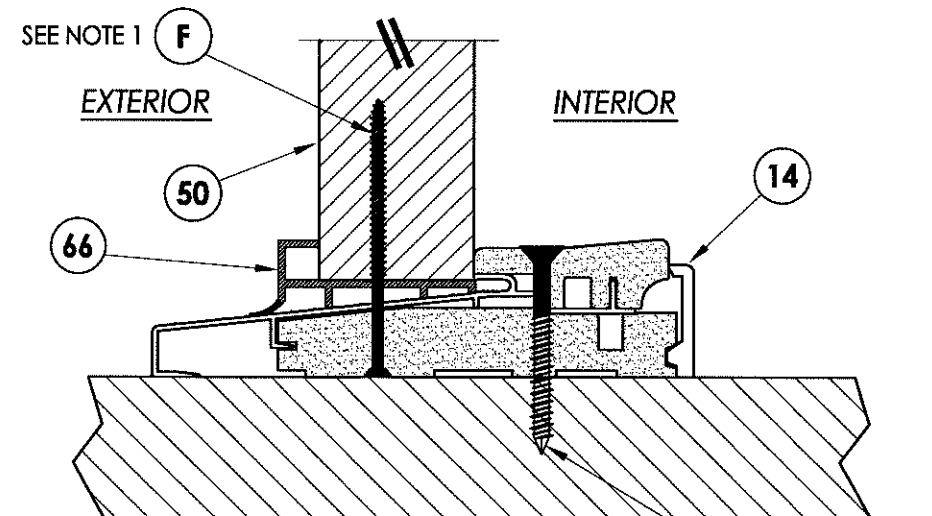
DATE: 08/16/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4230
 SHEET 6 OF 10



1 VERTICAL CROSS SECTION
7 Inswing shown - Outswing also approved

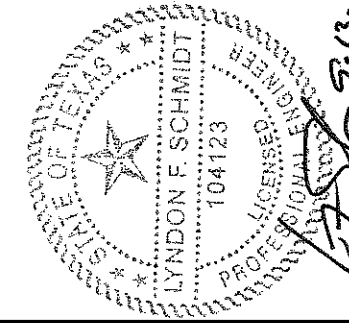


2 VERTICAL CROSS SECTION
7 Inswing configuration



3 VERTICAL CROSS SECTION
7 Outswing configuration

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



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

PRODUCT: THERMA-TRU
 STEEL DOOR

PART OR ASSEMBLY:
 VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE: 08/16/12

SCALE: N.T.S.

DWG. BY: JK

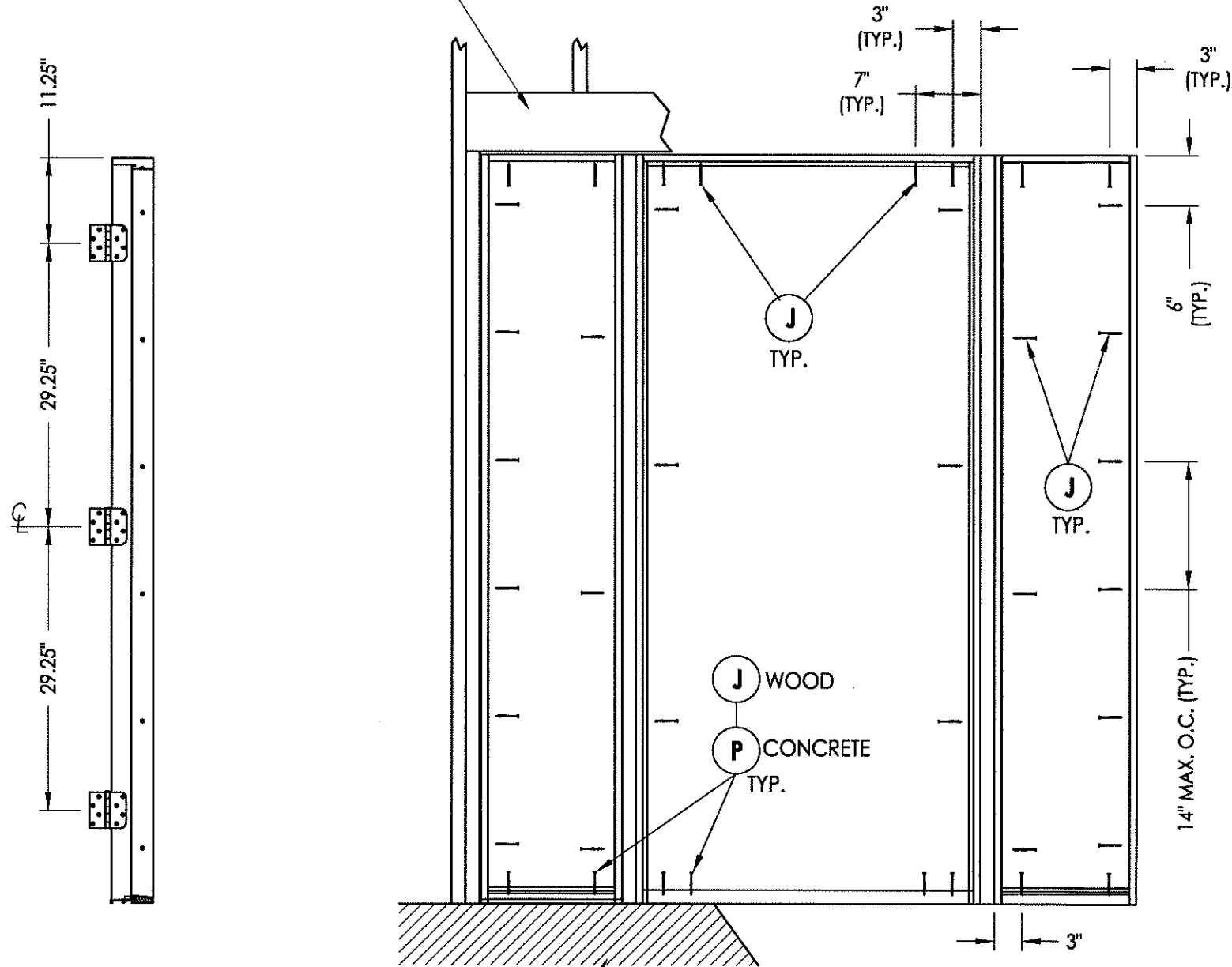
CHK. BY: LFS

DRAWING NO.:

TX-4230

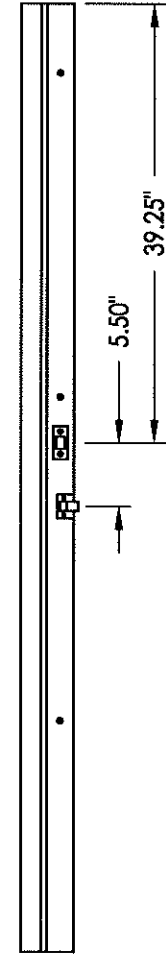
SHEET 7 OF 10

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

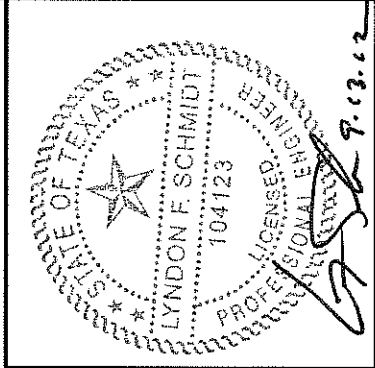
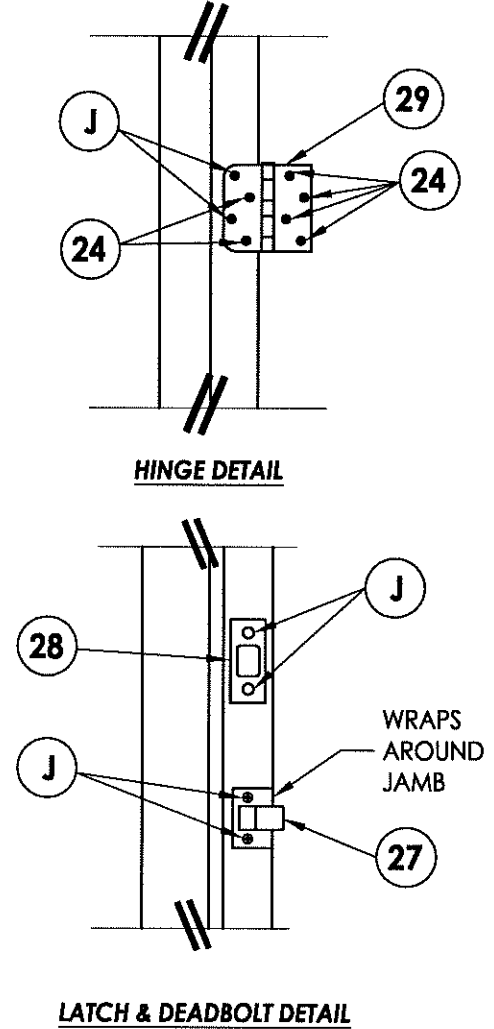


HINGE JAMB

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



STRIKE JAMB



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

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

NO.	DATE	BY	REVISIONS

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

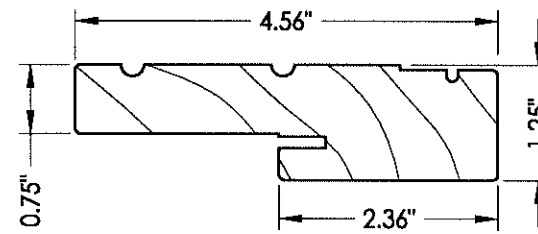
BILL OF MATERIALS

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

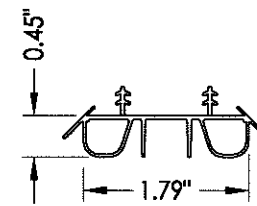
CONCRETE ANCHOR NOTES:

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:

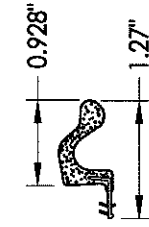
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



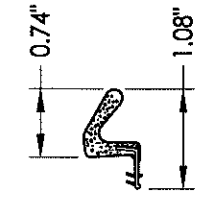
1 WOOD JAMB



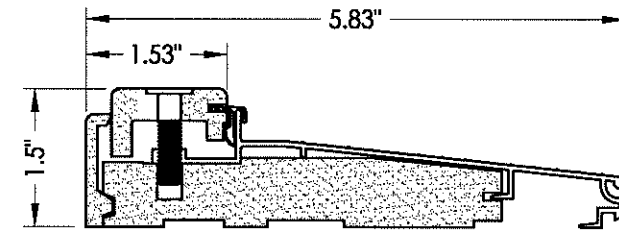
8 SWEEP



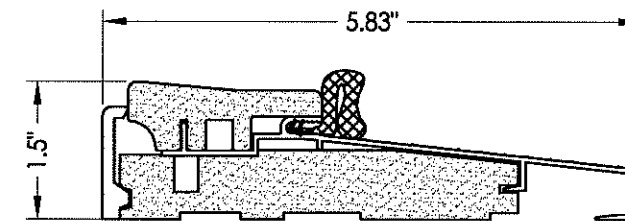
7 WEATHERSTRIP Long Reach



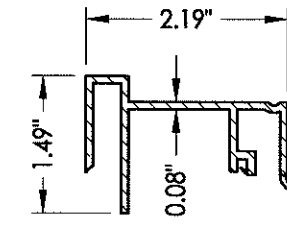
9 WEATHERSTRIP Medium Reach



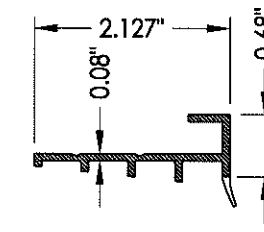
13 INSWING THRESHOLD



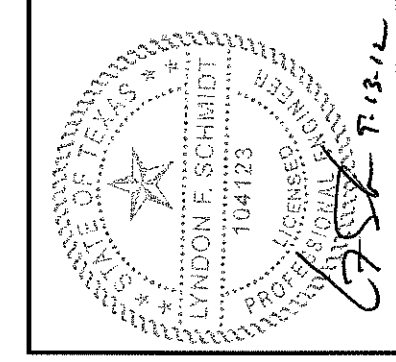
14 OUTSWING THRESHOLD



65 INSWING SIDELITE ADAPTER



66 OUTSWING SIDELITE ADAPTER



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PRODUCT: THERMA-TRU STEEL DOOR
PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	BY	REVISIONS

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