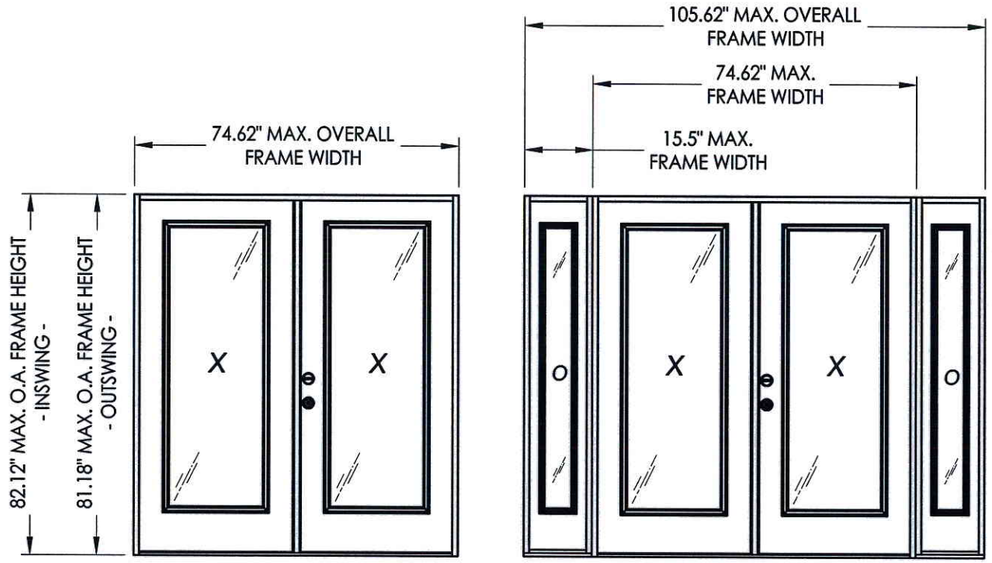
THERMA TRU®

THERMA TRU DOORS

118 INDUSTRIAL DR., EDGERTON, OH 43517

"Traditions" Series Glazed Steel Door w/ or w/o Sidelites "Non-Impact"

INSWING / OUTSWING



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.

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2	Door panel details
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4	Elevations
5	Horizontal cross section
6	Vertical cross sections
7	Vertical cross sections
8	Frame anchoring
9	Astragal details
10	Bill of materials and components

CONFIGURATION	*MAX. FRAME DIMENSION*	*MAX. D.L.O. DIMENSION*	*SWING*	*DESIGN PRESSURE (PSF)*	
				POSITIVE	*NEGATIVE*
XX	74.62" x 82.12"	21.12" x 63.12"	*INSWING*	+35.0	-40.0
	74.62" x 81.18"		*OUTSWING*	+40.0	-40.0
OXXO	105.62" x 82.12"	21.12" x 63.12"	*INSWING*	+35.0	-40.0
	105.62" x 81.18"		*OUTSWING*	+40.0	-40.0

STATE OF TEXAS ★★★ LYNDON F. SCHMIDT 104123 LICENSED PROFESSIONAL ENGINEER ★★★

1.23.13

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	BY	REVISIONS

DATE: 01/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4305
SHEET 1 OF 10

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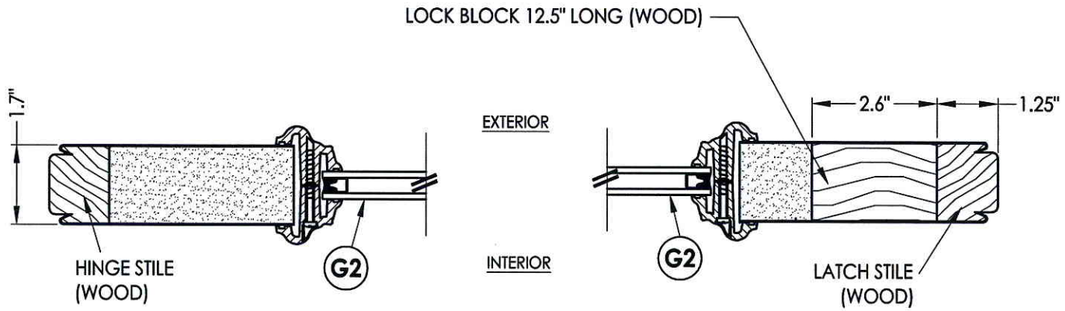
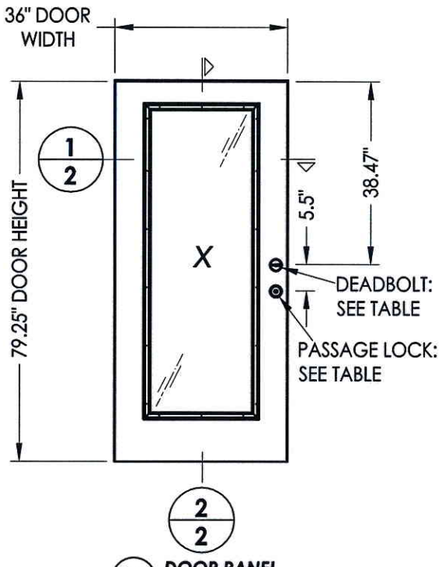
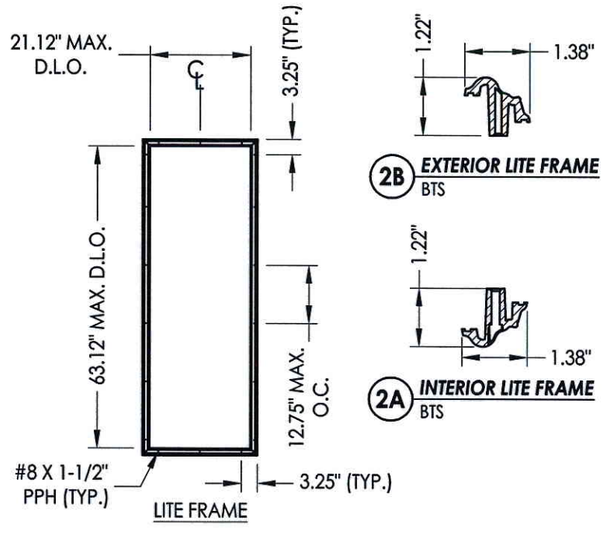


1/2 HORIZONTAL CROSS SECTION



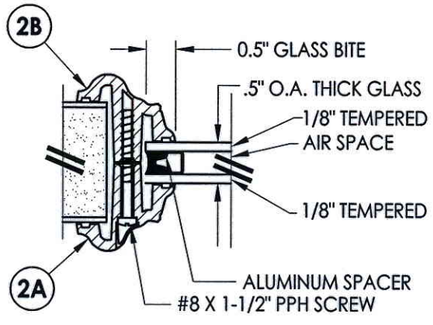
40 DOOR PANEL
"Traditions" Series



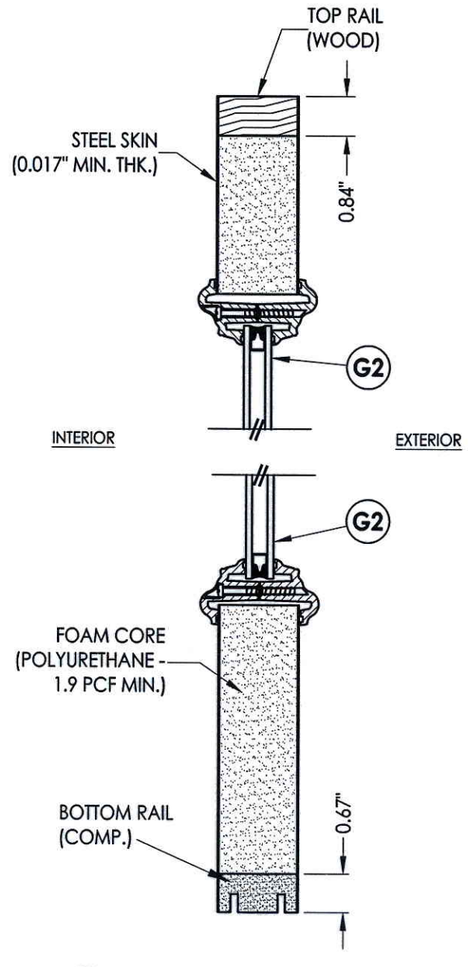
2B EXTERIOR LITE FRAME
BTS

2A INTERIOR LITE FRAME
BTS

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



G2 GLAZING DETAIL
Plastic Lip Lite Frame (BTS)



2/2 VERTICAL CROSS SECTION

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STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER

1-31-13

PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	BY
	REVISIONS	

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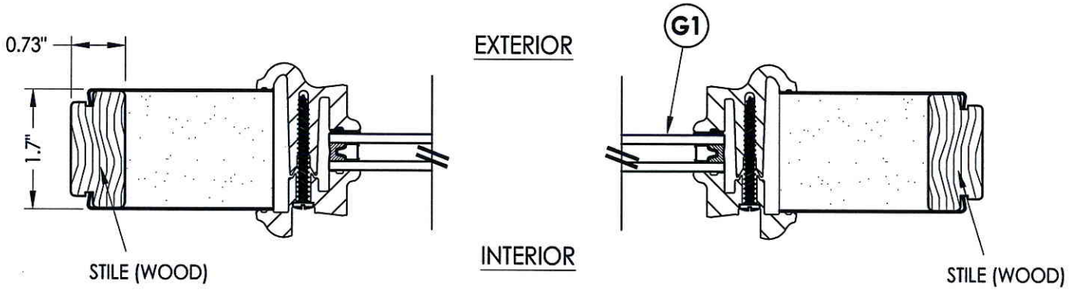
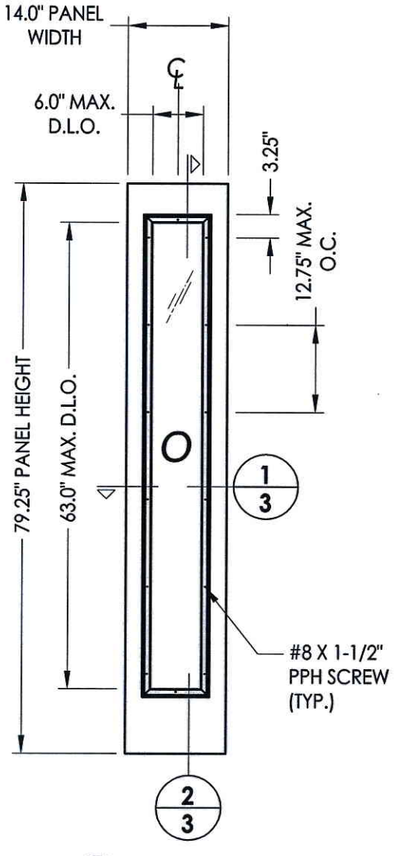
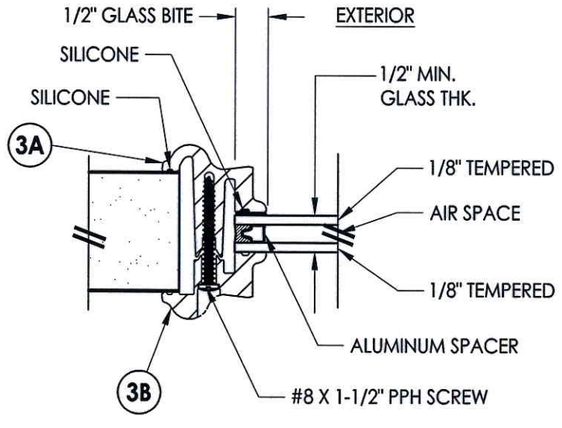


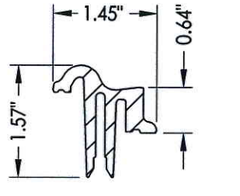
1/3 **HORIZONTAL CROSS SECTION**



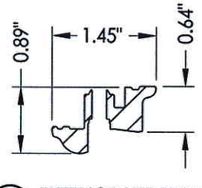
50 **SIDELITE PANEL**



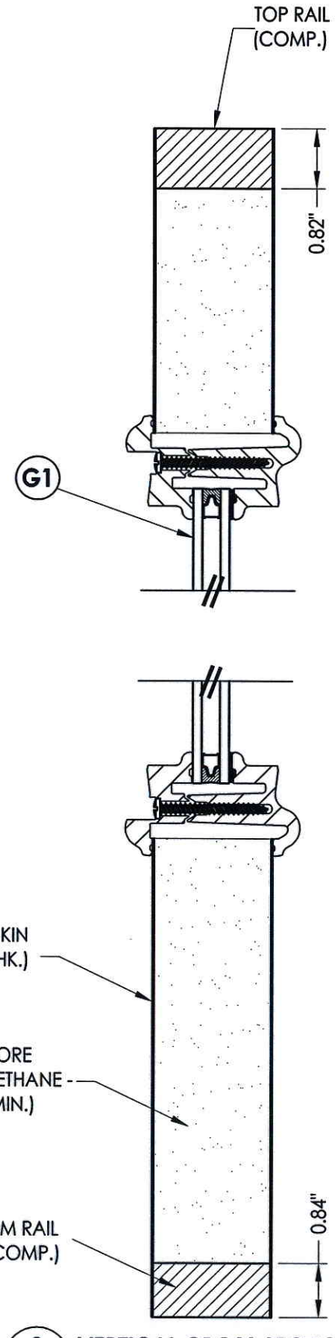
G1 **GLAZING DETAIL**



3A **INTERIOR LITE FRAME** BTS



3B **EXTERIOR LITE FRAME** BTS



2/3 **VERTICAL CROSS SECTION**

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1-31-13

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAIL

NO.	DATE	REVISIONS	BY

DATE: 01/23/13
SCALE: N.T.S.
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SHEET 3 OF 10

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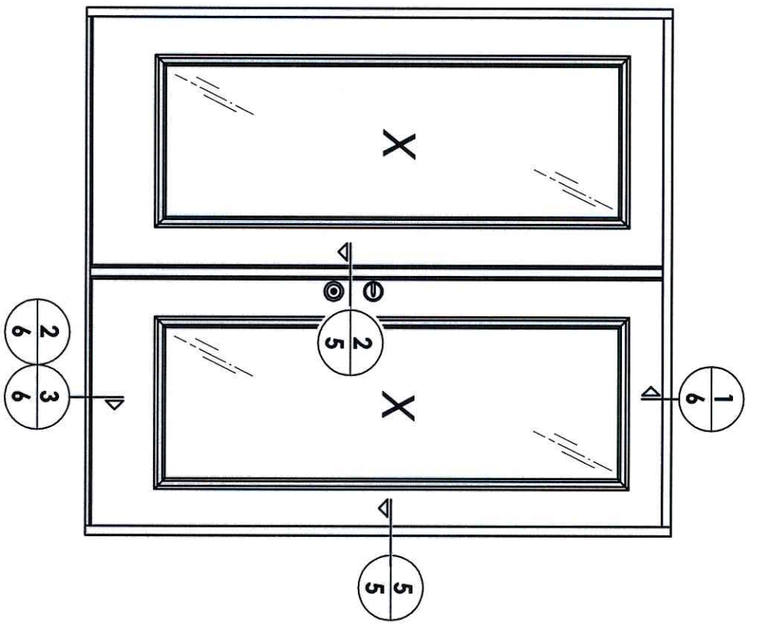
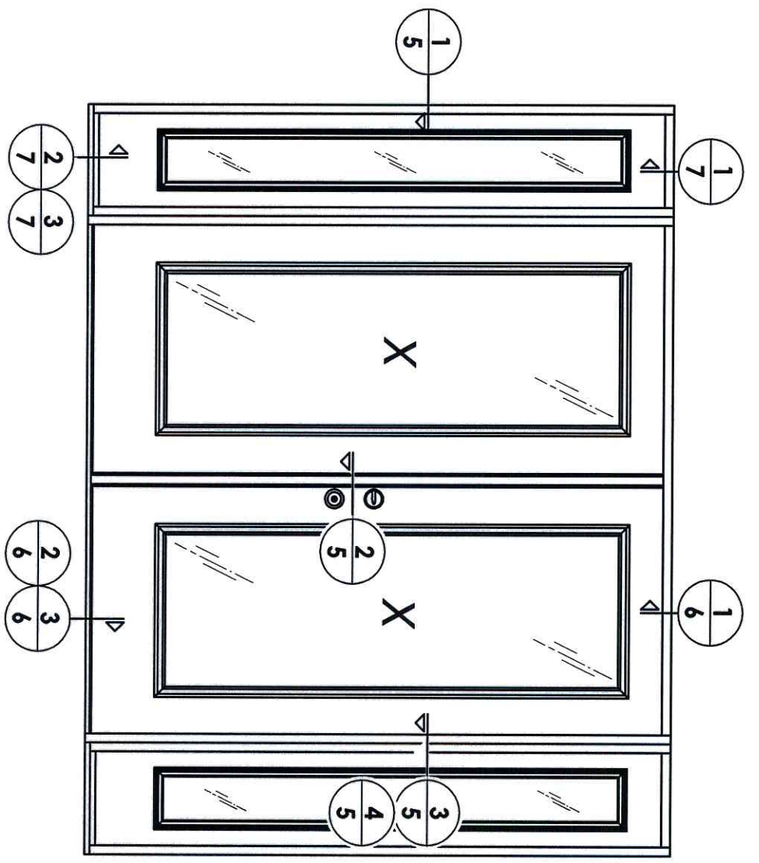
ELEVATION (XX)



ELEVATION (OXXO)



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104123
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SHEET	4 OF 10
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DWG. BY:	JK
SCALE:	N.T.S.
DATE:	01/23/13

NO.	DATE		BY

REVISIONS

PRODUCT:
THERMA-TRU STEEL DOOR

PART OR ASSEMBLY:
ELEVATIONS

Documents Prepared By: Lyndon F. Schmidt, P.E.
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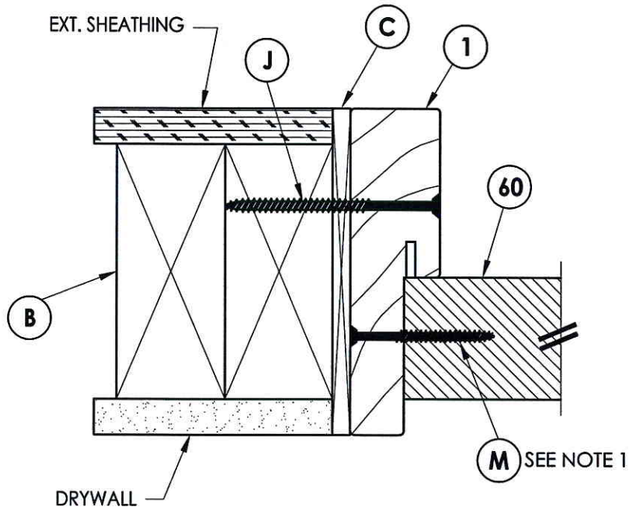
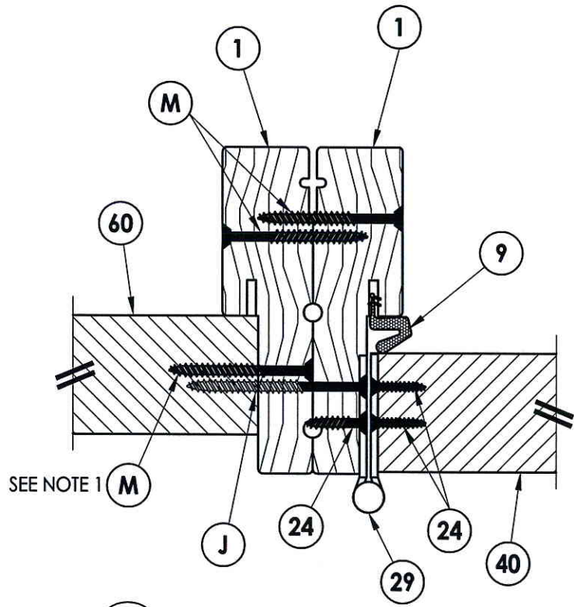


EXTERIOR

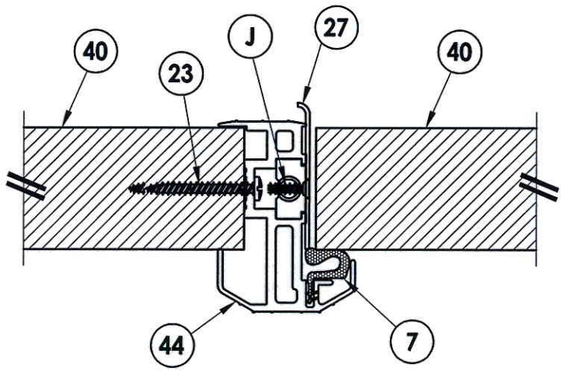
INTERIOR

1/5 HORIZONTAL CROSS SECTION
Inswing shown - Outswing also approved



3/5 HORIZONTAL CROSS SECTION
Inswing shown

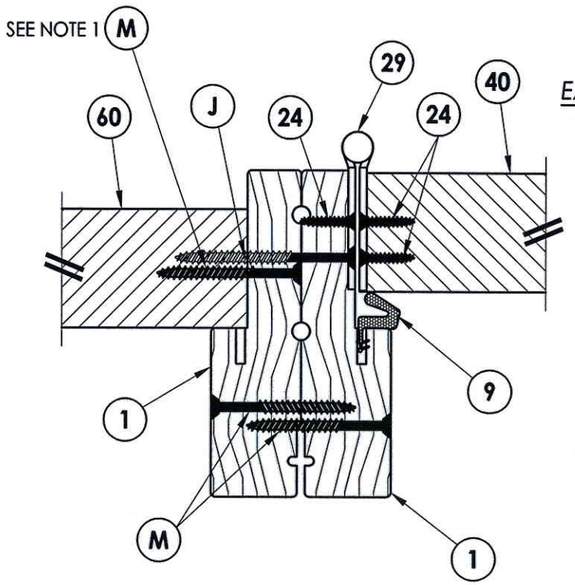
Note:
1. Sidelite assembly screws located 6" from each end plus 4 more equally spaced (6 total).



EXTERIOR

INTERIOR

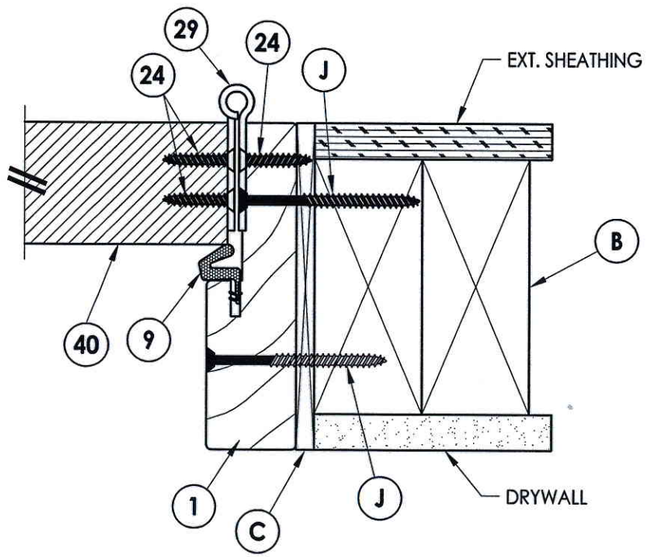
2/5 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved



EXTERIOR

INTERIOR

4/5 HORIZONTAL CROSS SECTION
Outswing shown



5/5 HORIZONTAL CROSS SECTION
Outswing shown - Inswing also approved

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

PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 01/23/13
SCALE: N.T.S.
DWG. BY: JK
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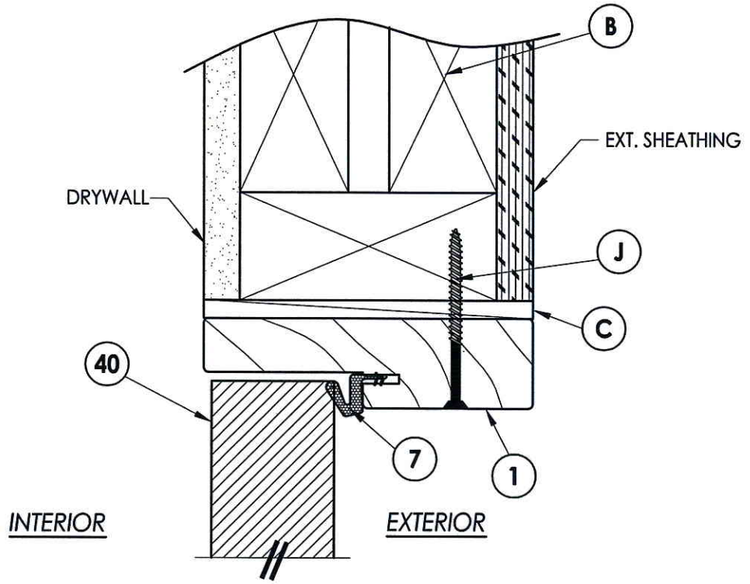
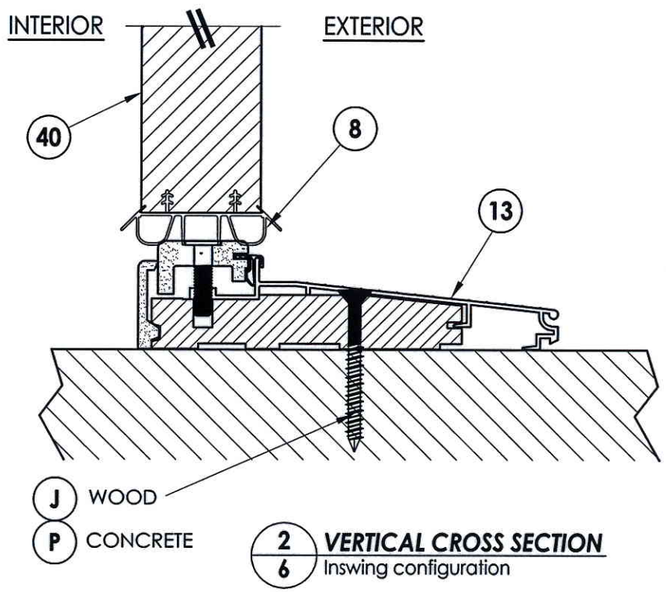
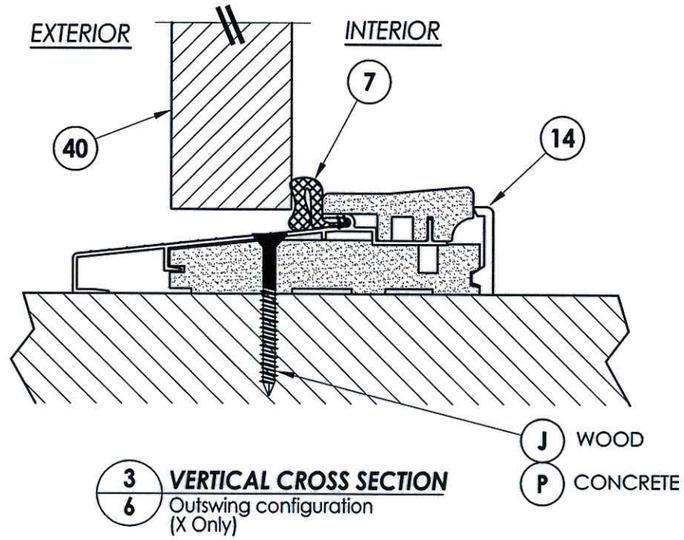


1/6 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved



2/6 **VERTICAL CROSS SECTION**
Inswing configuration



3/6 **VERTICAL CROSS SECTION**
Outswing configuration
(X Only)

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LYNDON F. SCHMIDT
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PROFESSIONAL
ENGINEER
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Documents Prepared By: Lyndon F. Schmidt, P.E.
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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	BY	REVISIONS

DATE: 01/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
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SHEET 6 OF 10

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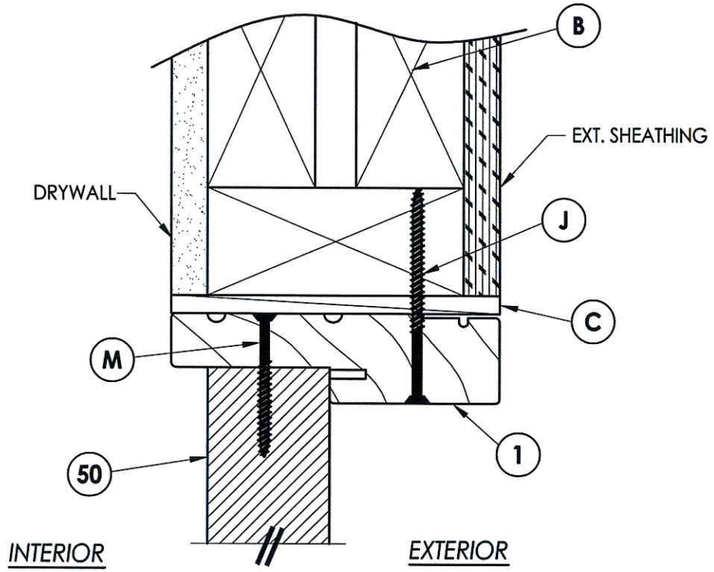
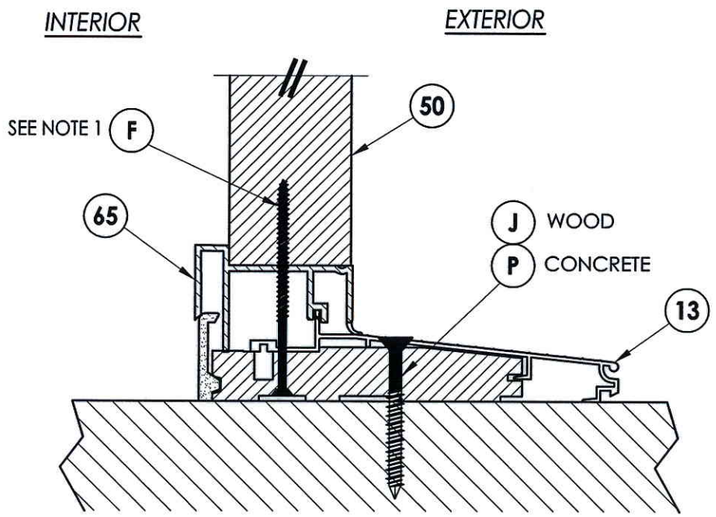
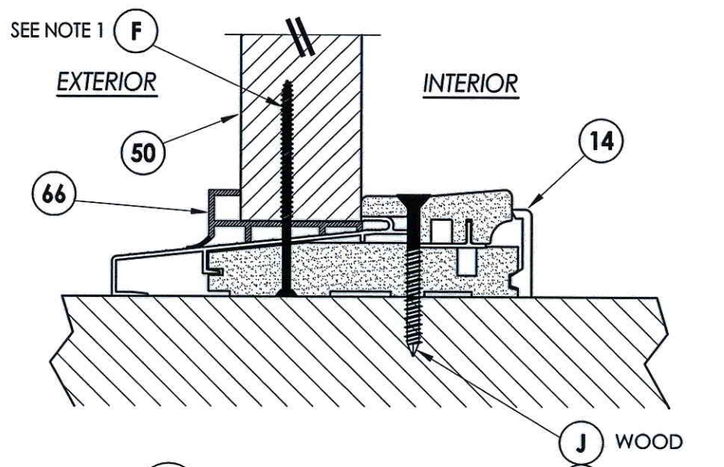


1/7 **VERTICAL CROSS SECTION**
Inswing shown - Outswing also approved

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



2/7 **VERTICAL CROSS SECTION**
Inswing configuration



3/7 **VERTICAL CROSS SECTION**
Outswing configuration

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104123
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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

NO.	DATE	REVISIONS	BY

DATE: 01/23/13
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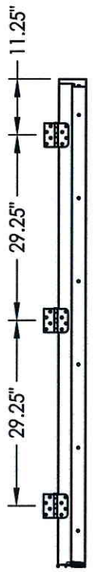

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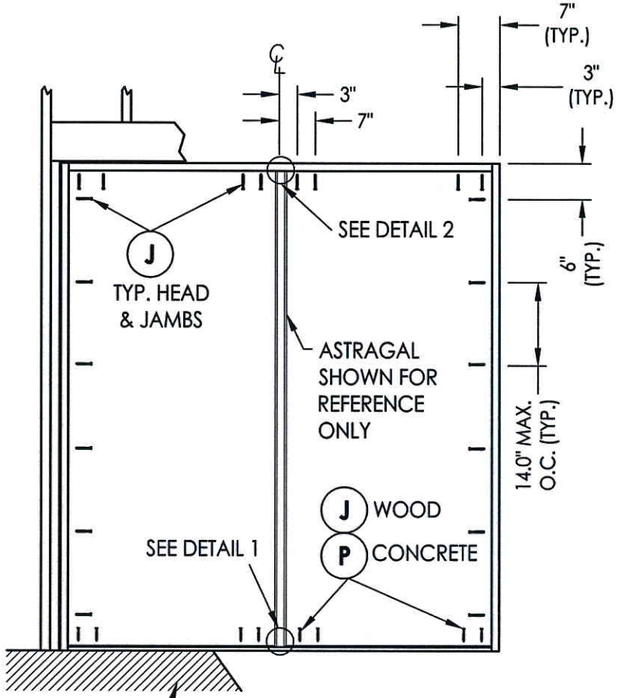
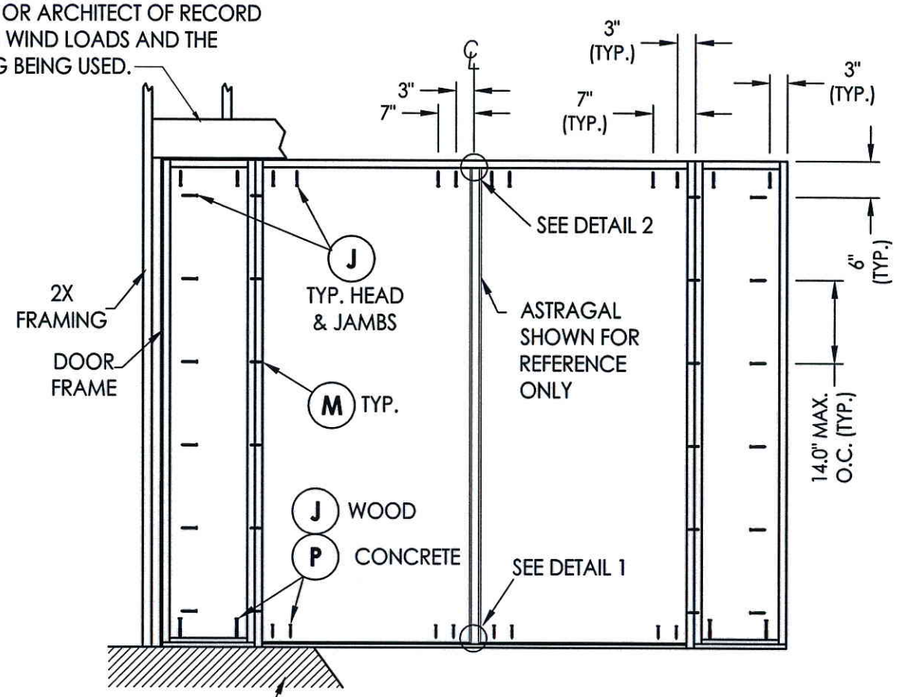


FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

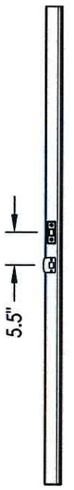
FRAME ANCHORING
XX

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

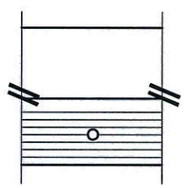


FLOOR SUBSTRATE MATERIAL
CONCRETE (MIN. 3000 PSI)
WOOD (S.G. >= 0.42)

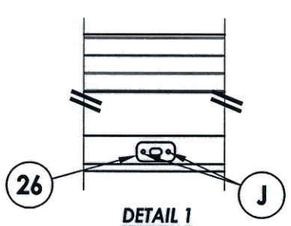
FRAME ANCHORING
OXXO



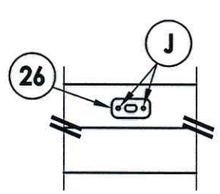
ASTRAGAL STRIKE



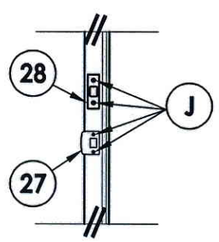
DETAIL 1
Astragal throw bolt hole (outswing)



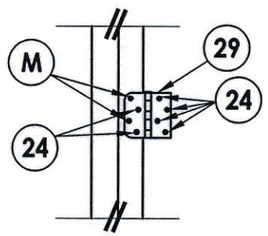
DETAIL 1
Astragal Strike Plate (inswing)



DETAIL 2
Astragal Strike Plate



LATCH & DEADBOLT DETAIL



HINGE DETAIL

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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: 01/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
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SHEET 8 OF 10

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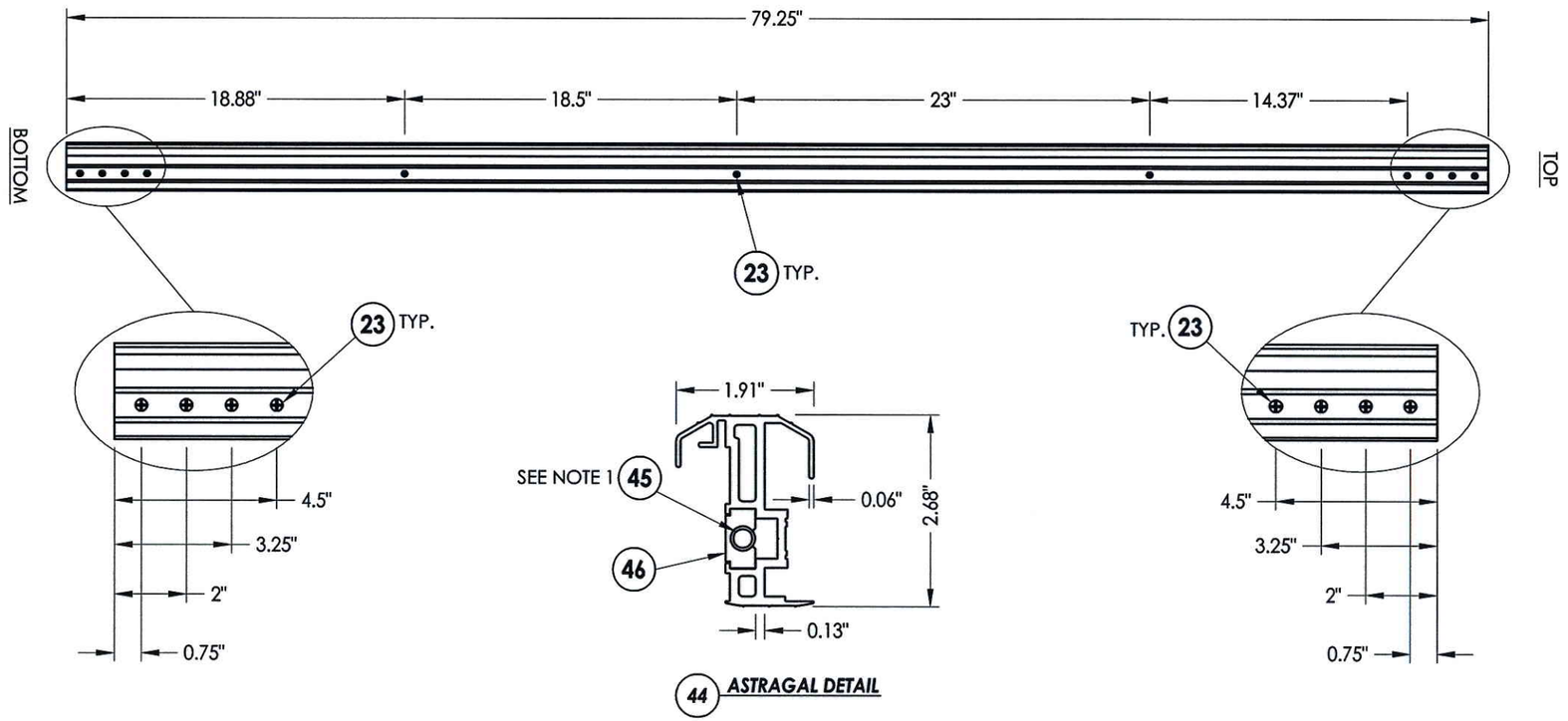

44 **ASTRAGAL DETAIL**

NOTE:

1. THE ASTRAGAL BOLT HAS A 3" THROW AT THE TOP AND AT THE BOTTOM.

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER

1.31.13

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: *ASTRAGAL DETAILS*

NO.	DATE	REVISIONS	BY

DATE: 01/23/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4305
SHEET 9 OF 10

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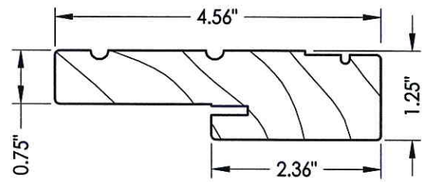
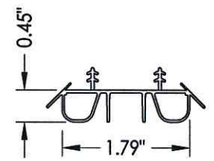
BILL OF MATERIALS

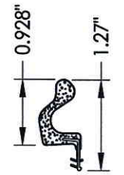
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 3" PFH WOOD SCREW	STEEL
J	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (Long Reach 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
23	#10 X 1-1/2" PANHEAD SMS	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
26	ASTRAGAL STRIKE PLATE	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	-
44	HURRICANE ASTRAGAL	-
45	ASTRAGAL FLUSH BOLT	-
46	ASTRAGAL FLUSH BOLT RETAINER	-
50	SIDELITE PANEL	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC



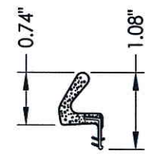
1 **WOOD JAMB**



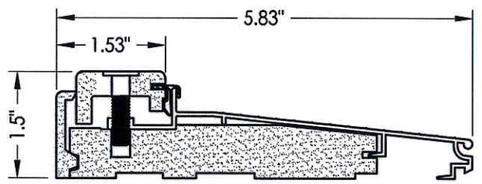
8 **SWEEP**



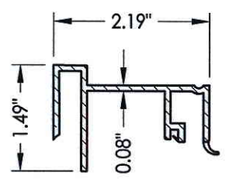
7 **WEATHERSTRIP** Long Reach



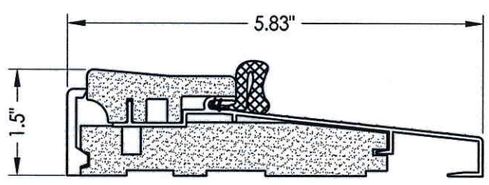
9 **WEATHERSTRIP** Medium Reach



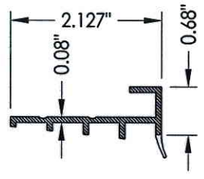
13 **INSWING THRESHOLD**



65 **INSWING SIDELITE** ADAPTER



14 **OUTSWING THRESHOLD**



66 **OUTSWING SIDELITE** ADAPTER

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"

STATE OF TEXAS · LYNDON F. SCHMIDT · 104123 · LICENSED PROFESSIONAL ENGINEER

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