

THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

FLUSH GLAZED FIBERGLASS DOOR INSWING/OUTSWING "NON-IMPACT"

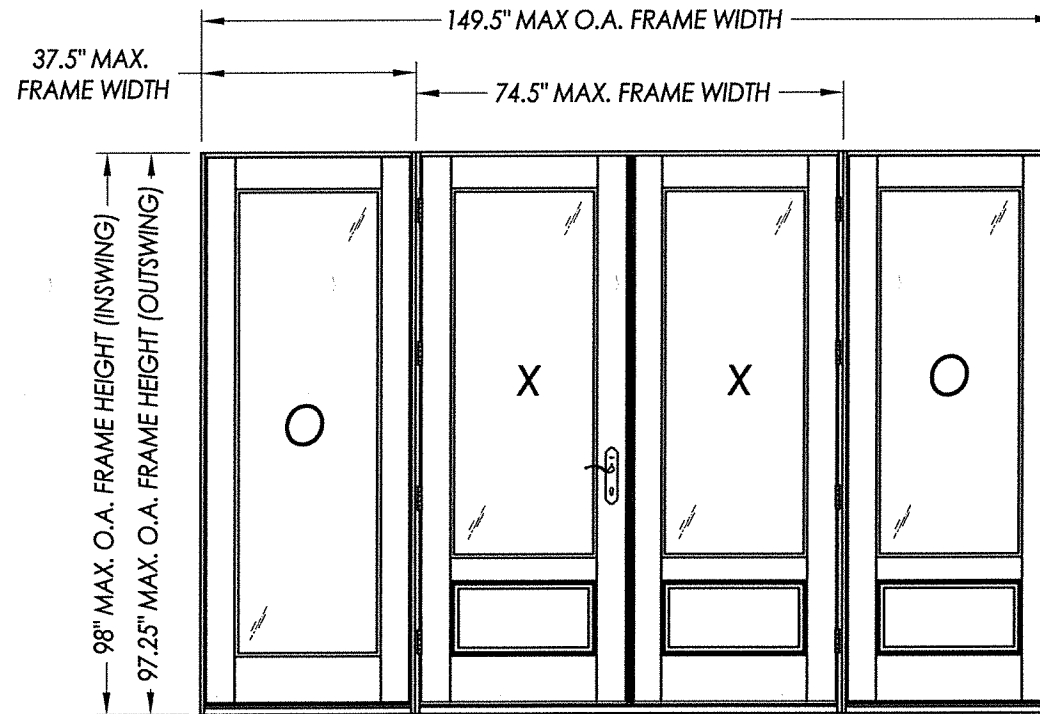
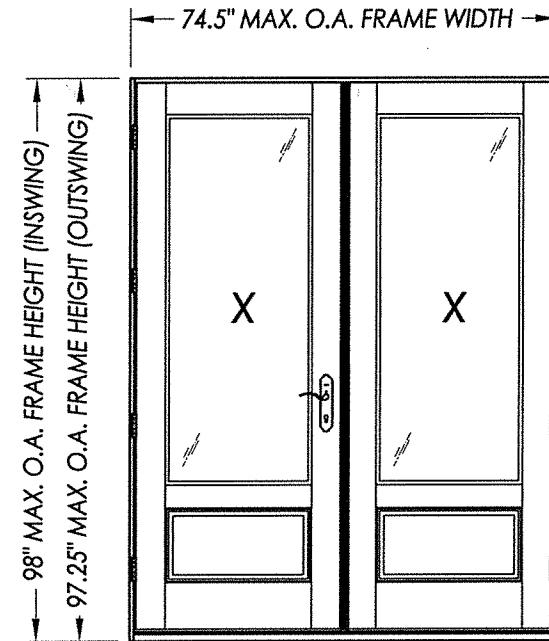
EVALUATED FOR USE IN THE STATE OF TEXAS

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:

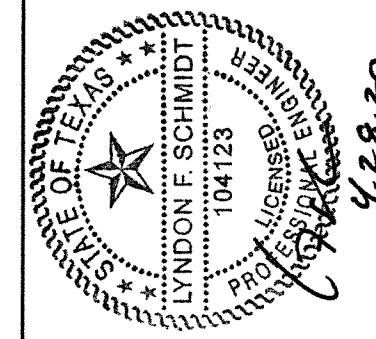
1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, this system is required to be protected with an impact resistant covering that complies with Section 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	Table of contents, design pressure and general notes
2	Door/Sidelite panel & glazing details
3	Sidelite panel & glazing details
4	Elevators
5	Horizontal cross sections
6	Vertical cross sections
7	Frame anchoring & hardware details
8	Bill of materials and components



CONFIGURATION	MAX FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	74.5" X 98.0"	+35.0	-45.0	+40.0	-40.0
OXXO	149.5" X 98.0"	+35.0	-45.0	+40.0	-40.0



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TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
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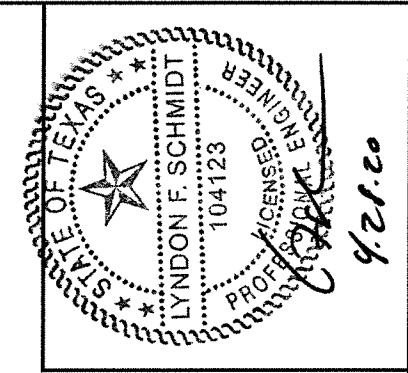
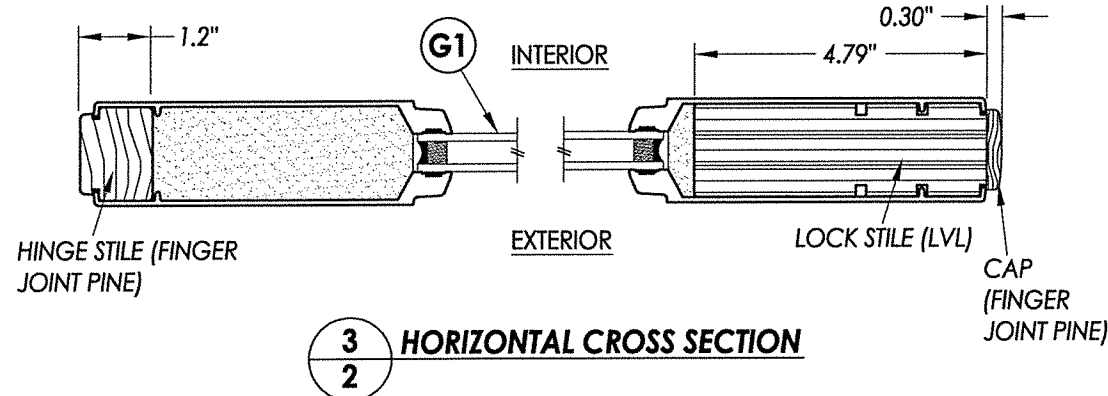
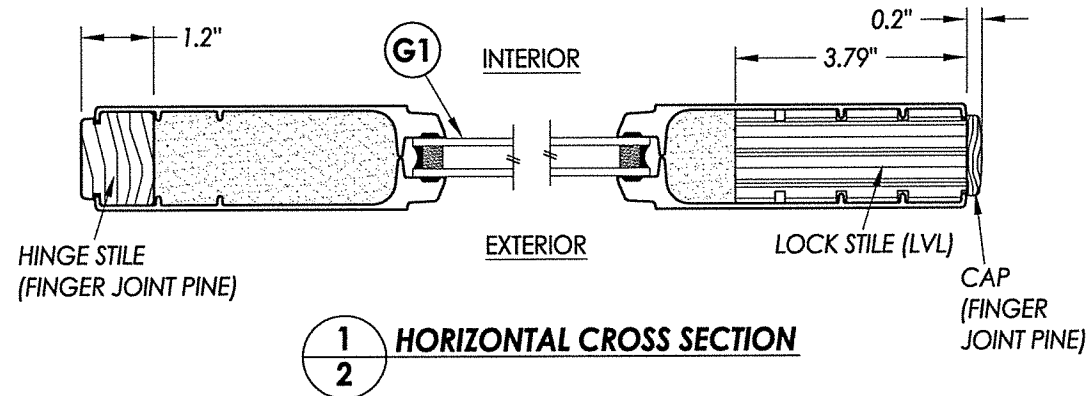
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FLUSH GLAZED DOOR

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

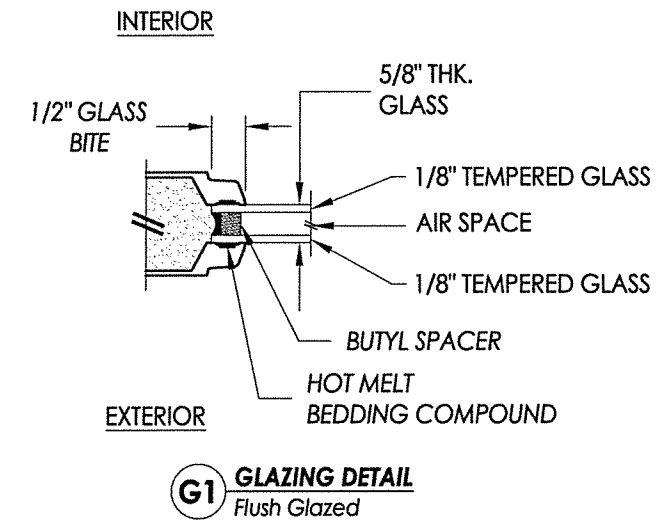
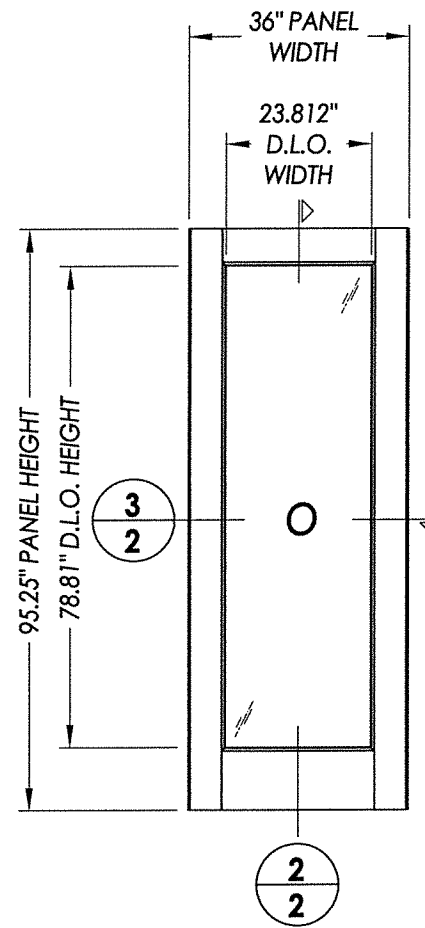
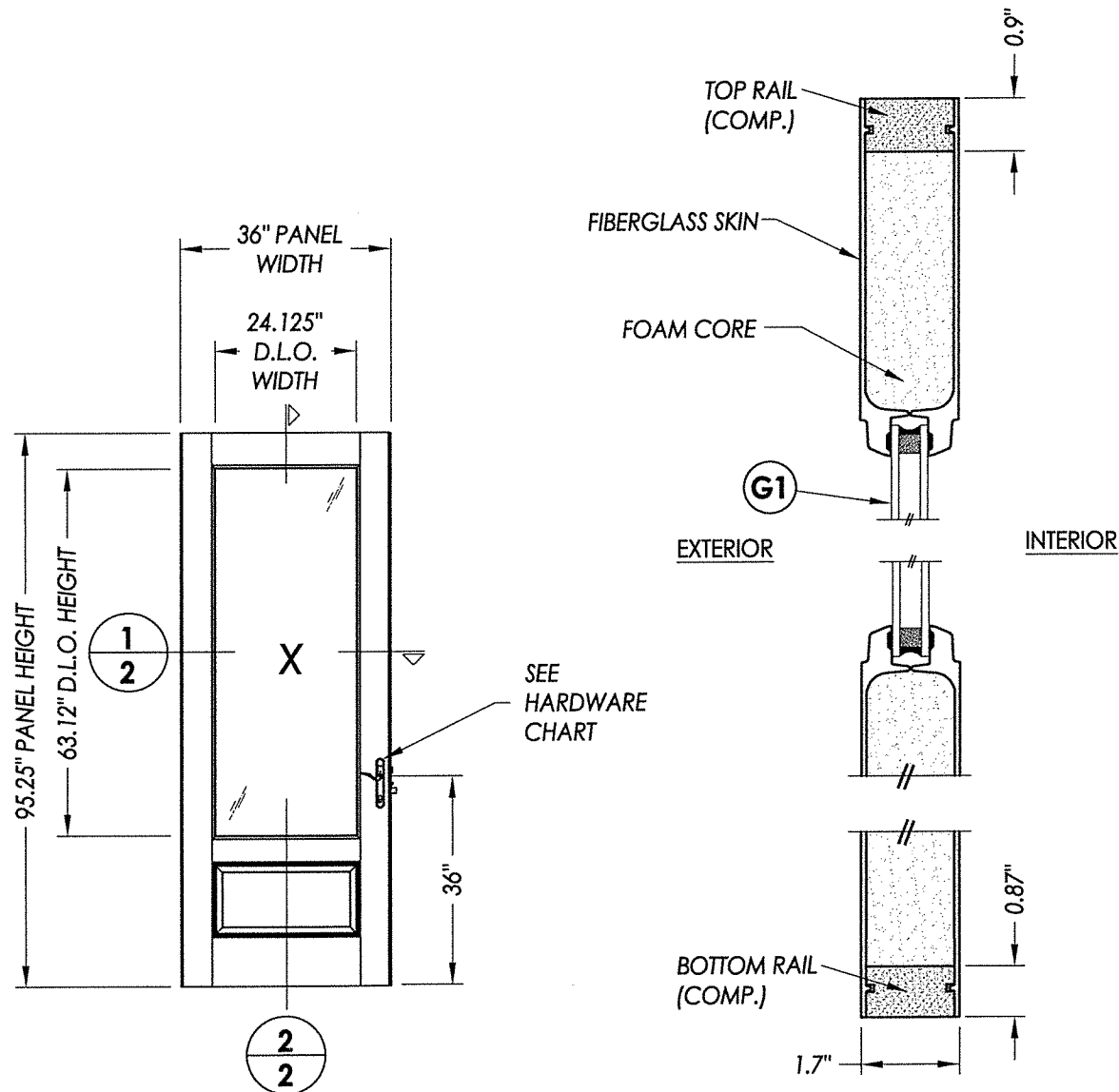
NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IRC/IBC CODE	LFS
REVISIONS			

DATE: 7/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4562
SHEET 1 OF 8



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40 **3'-0" DOOR/SIDELITE PANEL**
Fiber-Classic or Smooth-Star
3/4 Lite (Flush Glazed)

FIBERGLASS SKIN: 0.077" THICKNESS
FOAM CORE: POLYURETHANE

2
2 **VERTICAL CROSS SECTION**

50 **3'-0" SIDELITE PANEL**
Fiber-Classic or Smooth-Star
Full Lite (Flush Glazed)

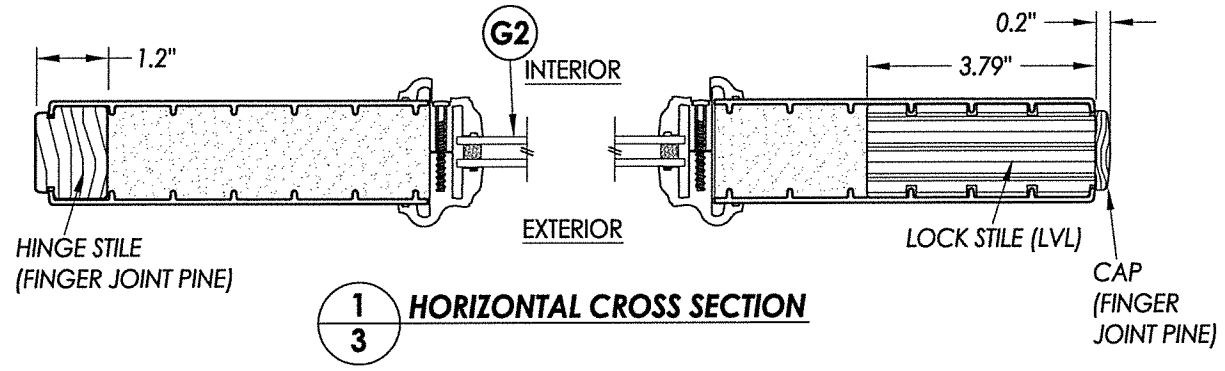
FIBERGLASS SKIN: 0.077" THICKNESS
FOAM CORE: POLYURETHANE

HARDWARE TABLE	
MANUFACTURER	MODEL
Therma-Tru	MULTI POINT LOCK: MPDGSB

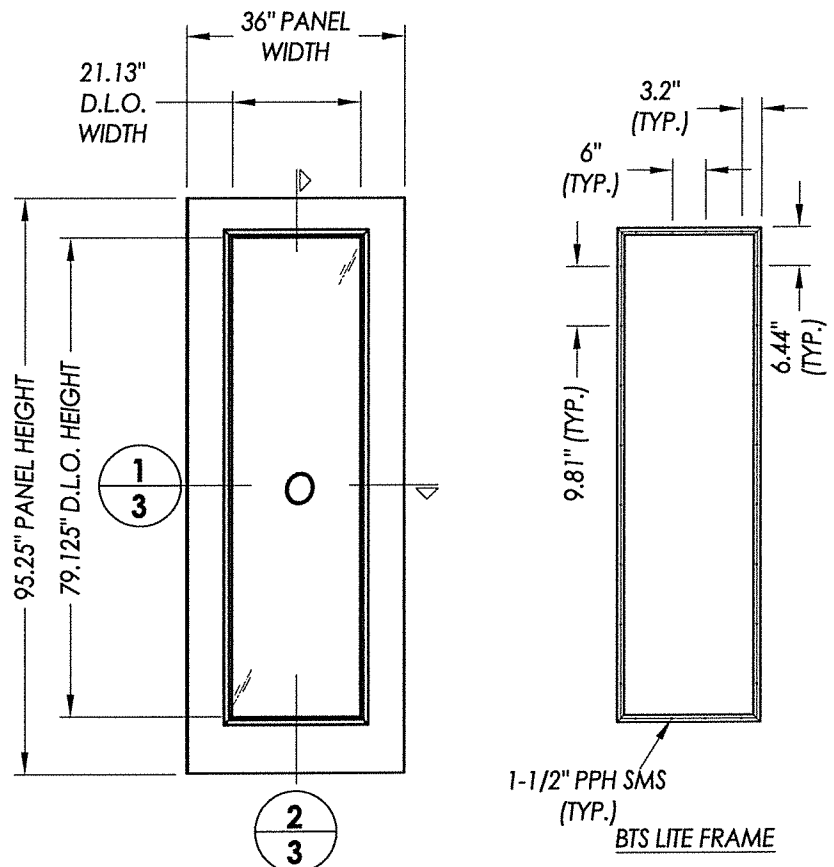
PRODUCT:	FLUSH GLAZED DOOR
PART OR ASSEMBLY:	DOOR PANEL & GLAZING DETAILS

NO.	DATE	REVISIONS
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY

DATE:	7/28/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4562
SHEET	2 OF 8

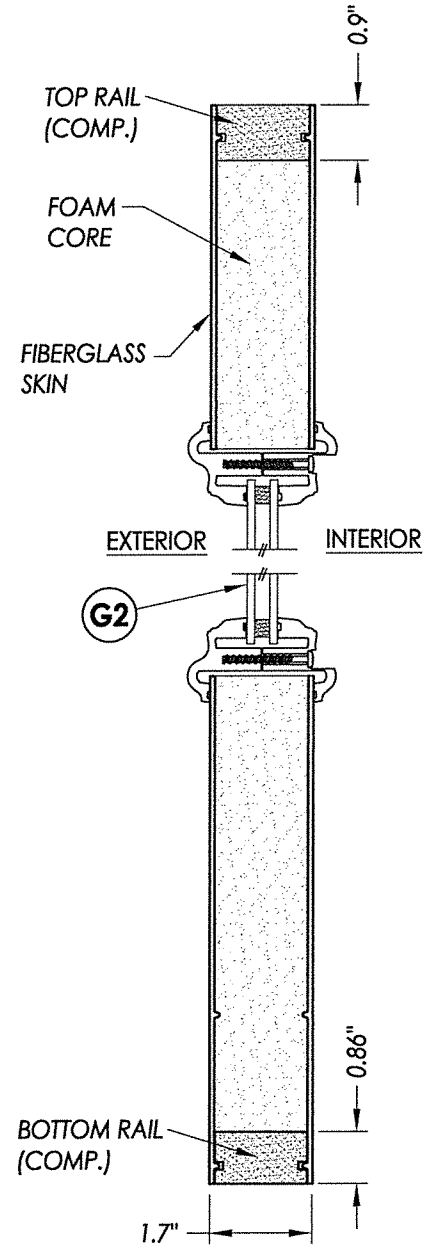


1
3 HORIZONTAL CROSS SECTION

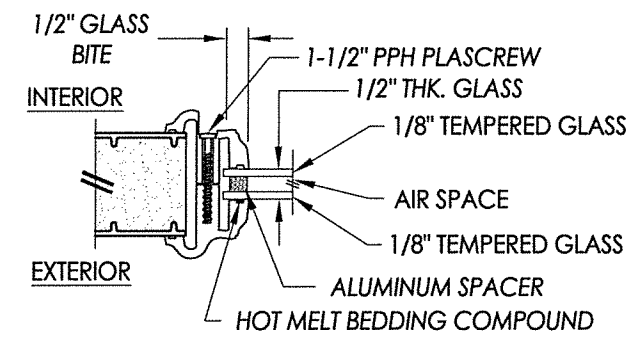


60 3'-0" SIDELITE PANEL
Full Lite (BTS Lite Frame)

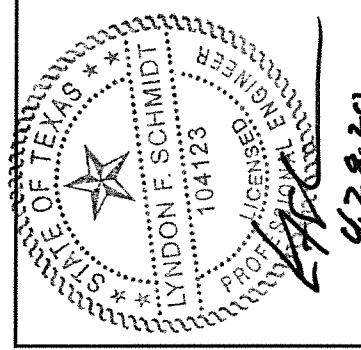
FIBERGLASS SKIN: 0.07" THICKNESS
FOAM CORE: POLYURETHANE



2
3 VERTICAL CROSS SECTION



G2 GLAZING DETAIL
BTS Lite Frame

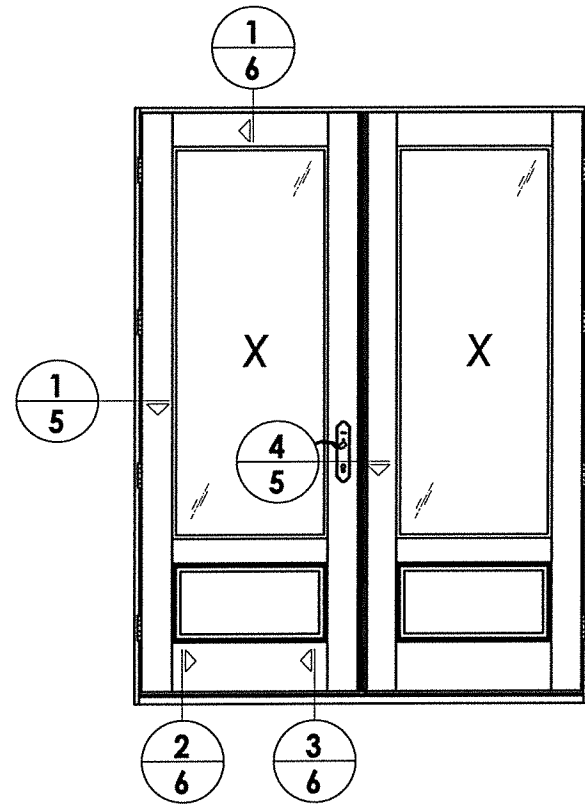


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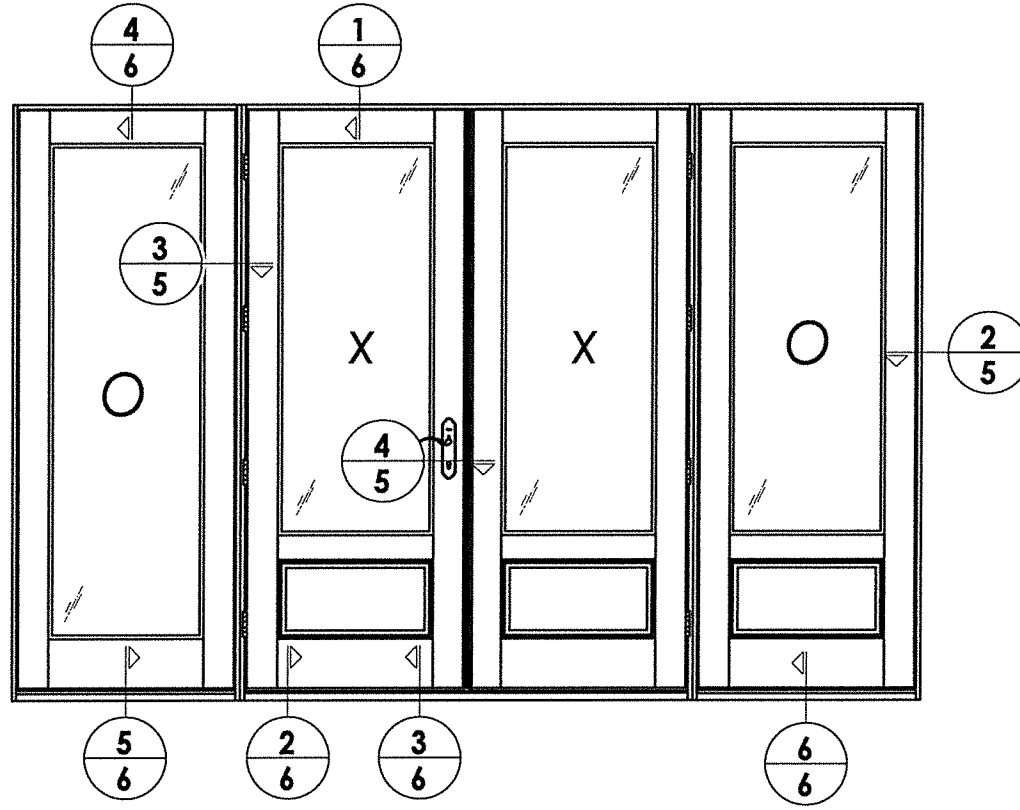
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CERTIFICATE OF REGISTRATION # F-11852

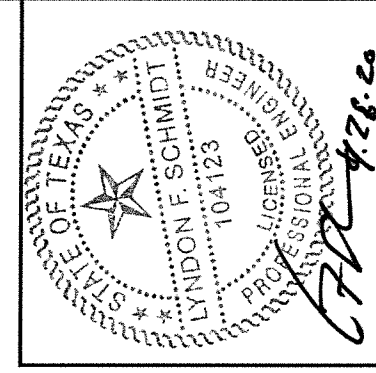
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PART OR ASSEMBLY:	SIDELITE PANEL & GLAZING DETAILS	
DATE:	7/28/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	TX-4562	
SHEET	3 OF 8	
NO.	DATE	DESCRIPTION
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE
		REVISIONS



XX



OXXO



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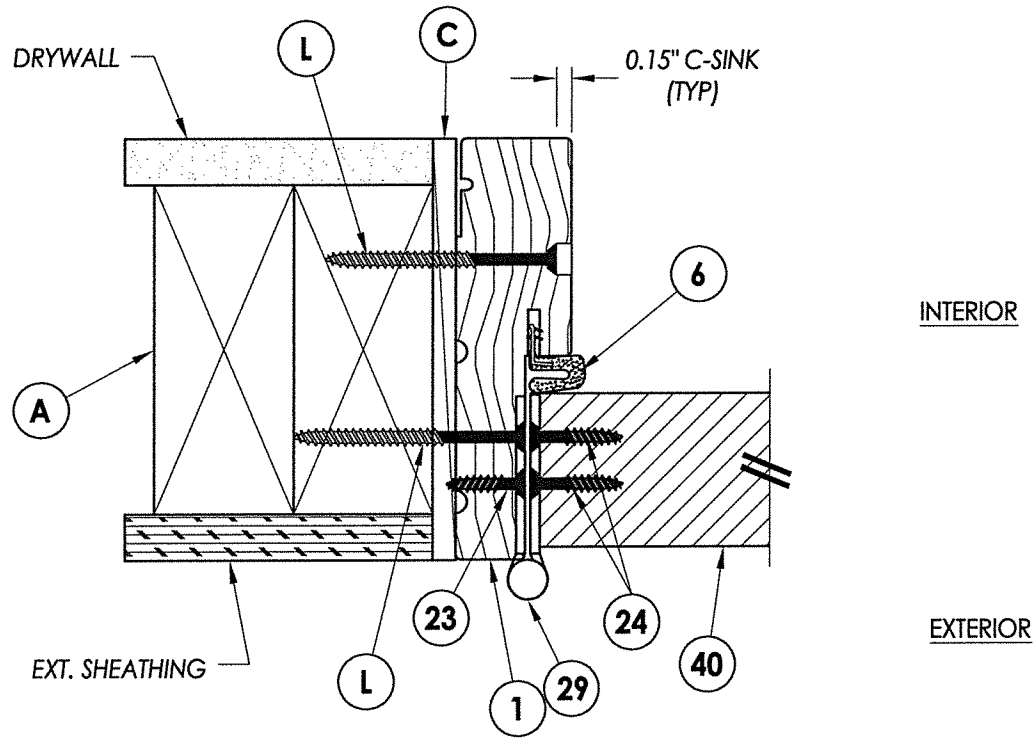
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
FLUSH GLAZED DOOR

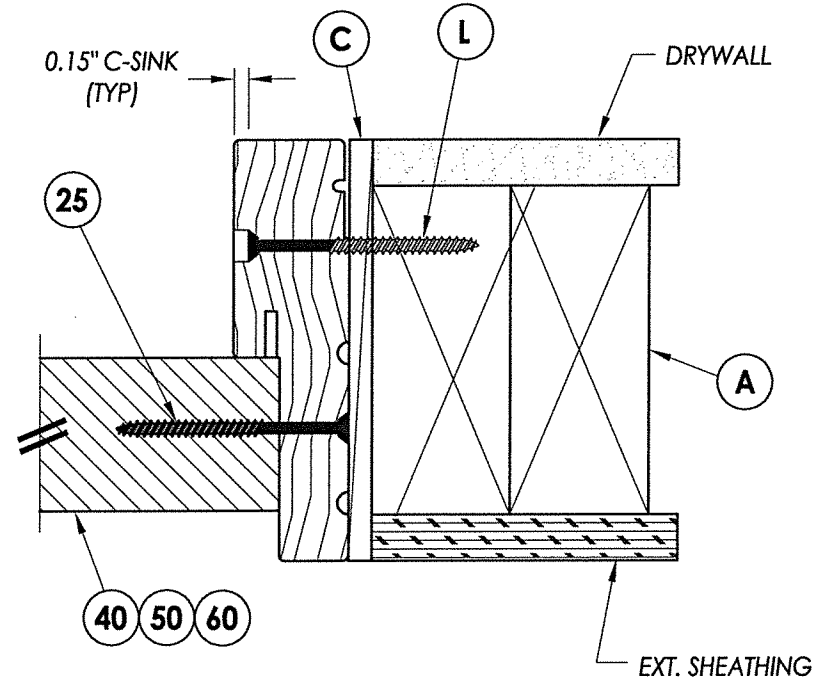
PART OR ASSEMBLY:
ELEVATIONS

NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

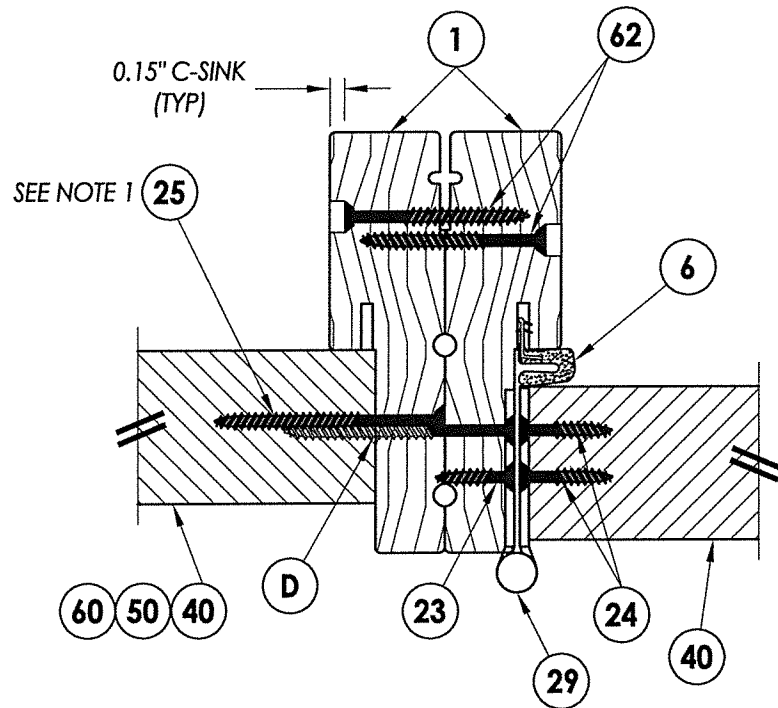
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4562
SHEET 4 OF 8



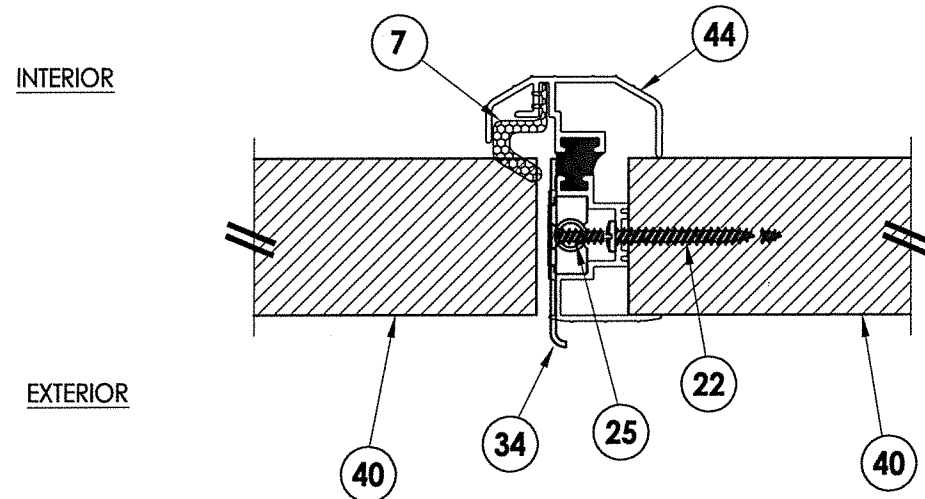
1 HORIZONTAL CROSS SECTION
5 Outswing Shown (Inswing similar)



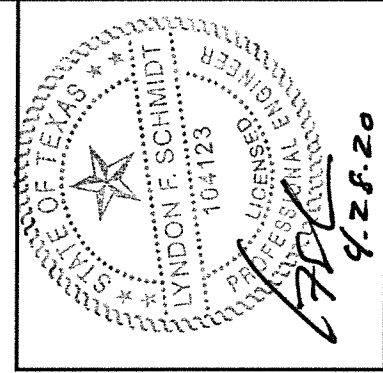
2 HORIZONTAL CROSS SECTION
5 Outswing Shown (Inswing similar)



3 HORIZONTAL CROSS SECTION
5 Outswing Shown (Inswing similar)



4 HORIZONTAL CROSS SECTION
5 Outswing Shown (Inswing similar)



Note:
 1. Sidelite assembly screws located 8" from each end then 2 more equally spaced (4 total).

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

PRODUCT: THERMA-TRU
 FLUSH GLAZED DOOR

PART OR ASSEMBLY:
 HORIZONTAL
 CROSS SECTIONS

NO.	DATE	REVISIONS	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 7/28/15

SCALE: N.T.S.

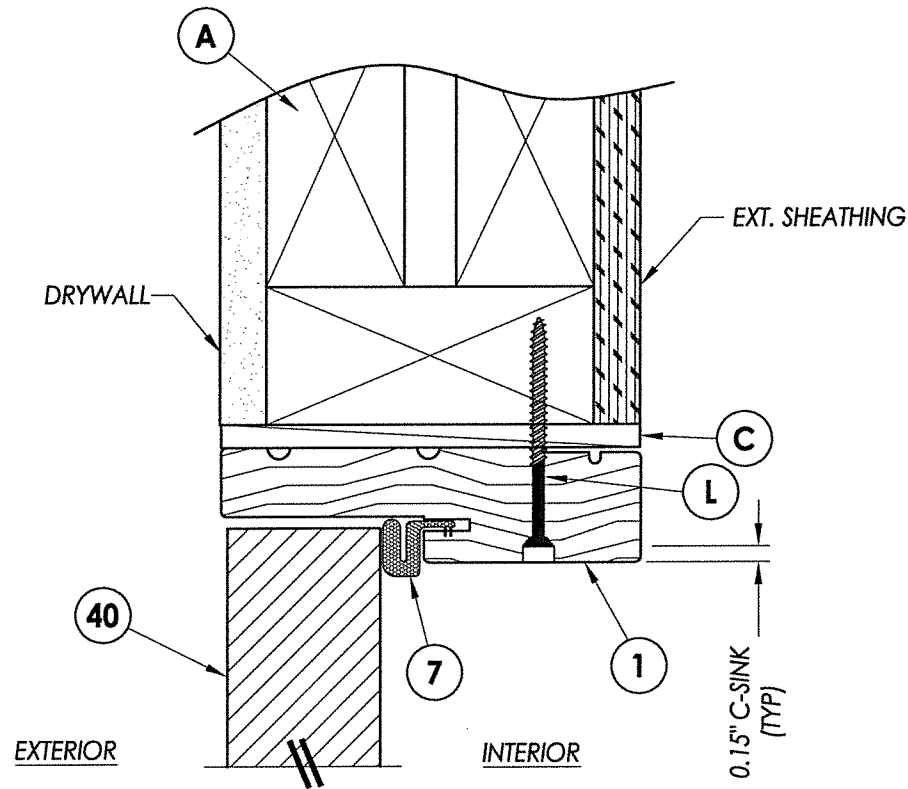
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CHK. BY: LFS

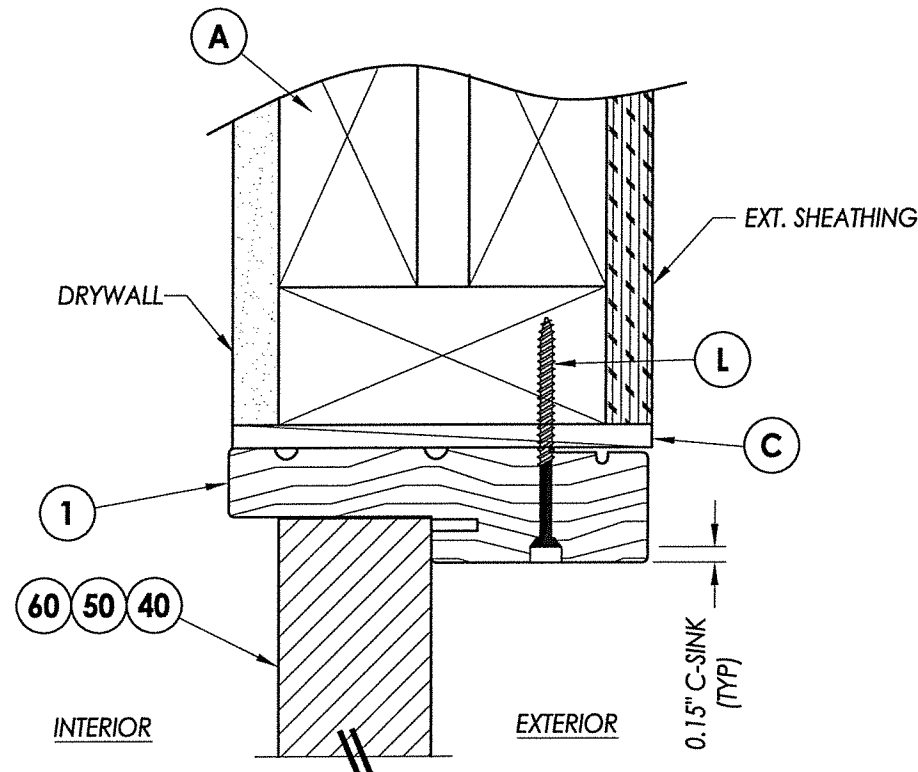
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 TX-4562

SHEET 5 OF 8

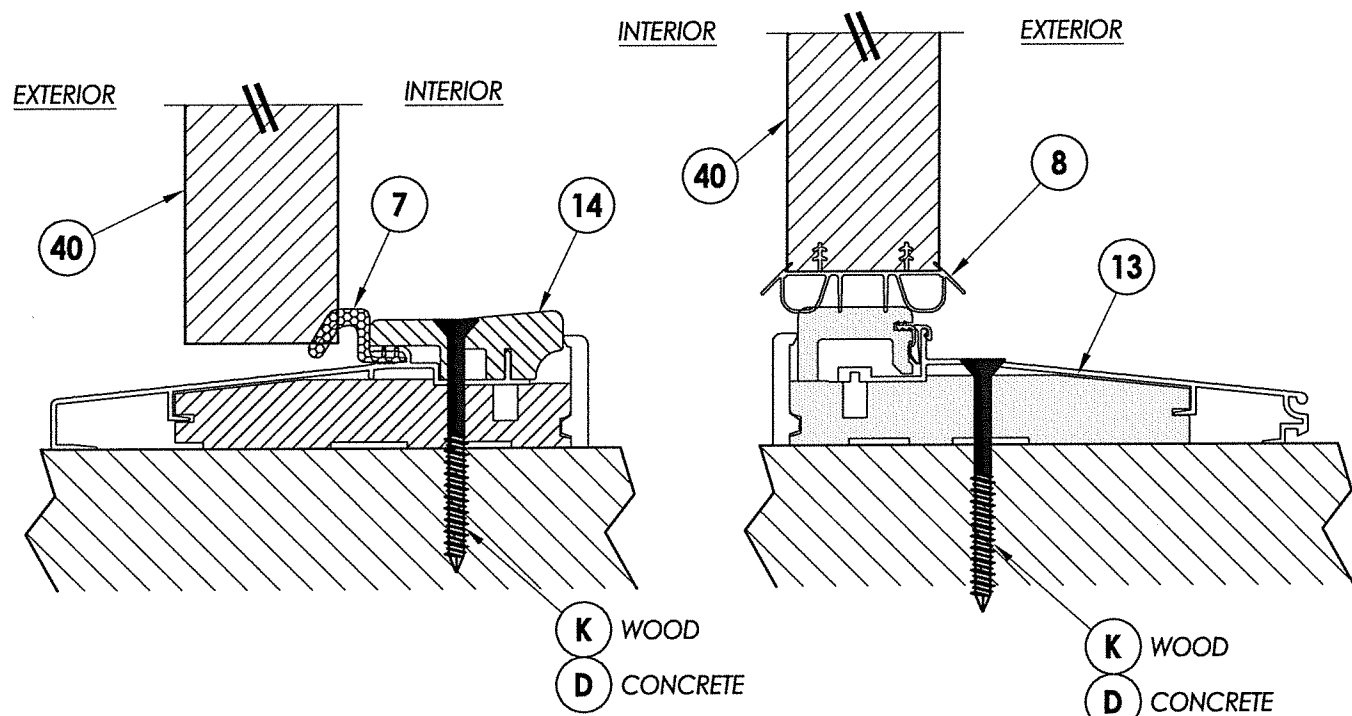
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1 VERTICAL CROSS SECTION
6 Outswing Shown (Inswing similar)

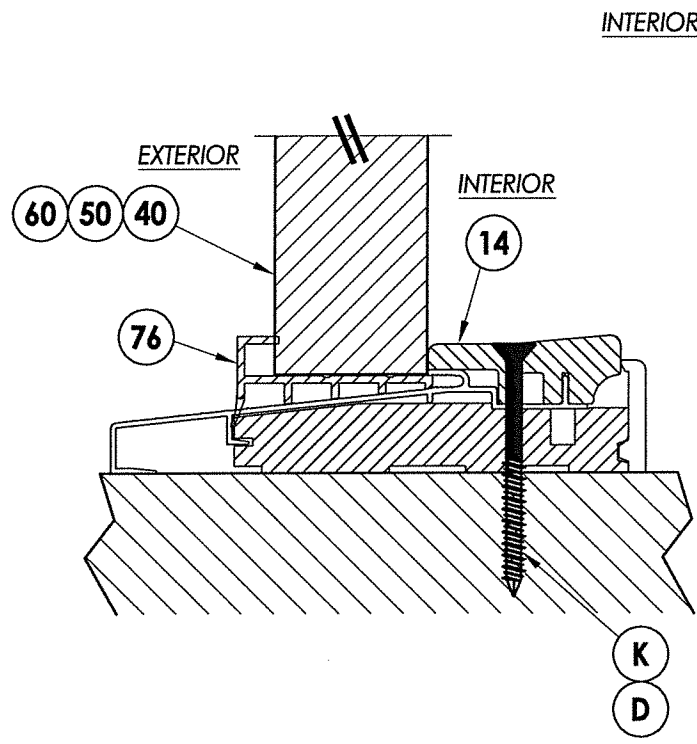


4 VERTICAL CROSS SECTION
6 Outswing Shown (Inswing similar)

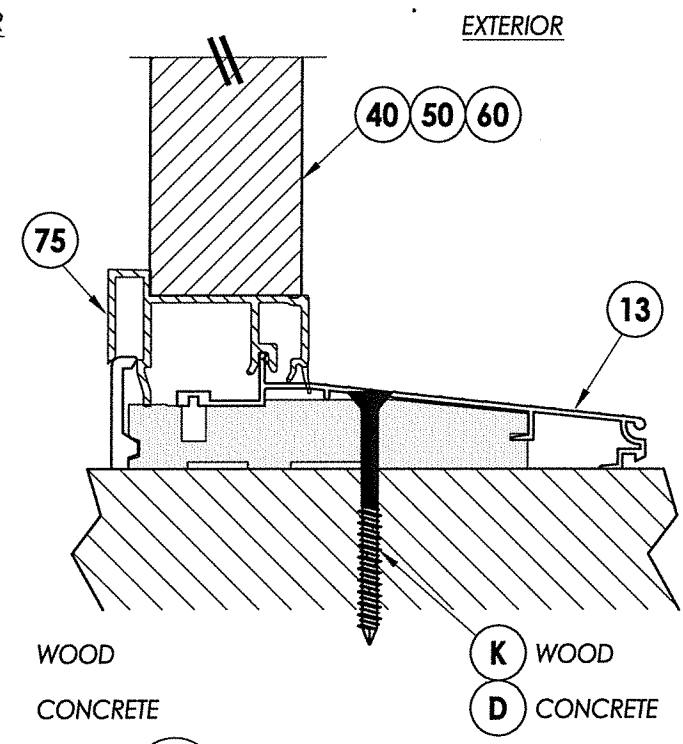


2 VERTICAL CROSS SECTION
6 Outswing Sill

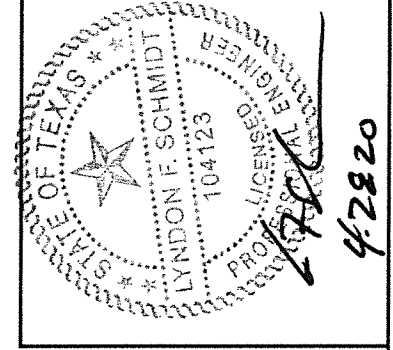
3 VERTICAL CROSS SECTION
6 Inswing Sill



5 VERTICAL CROSS SECTION
6 Outswing Sill



6 VERTICAL CROSS SECTION
6 Inswing Sill



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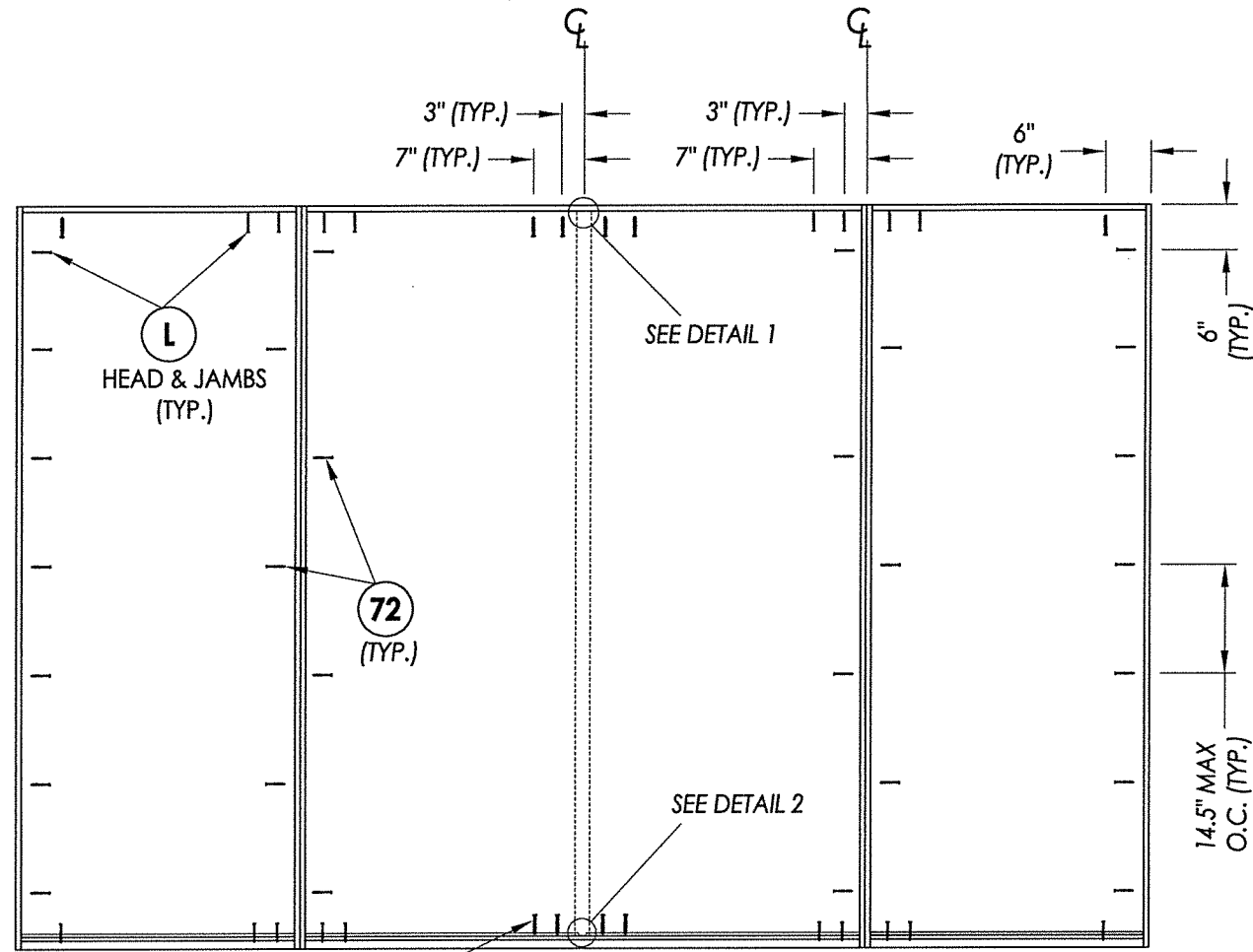
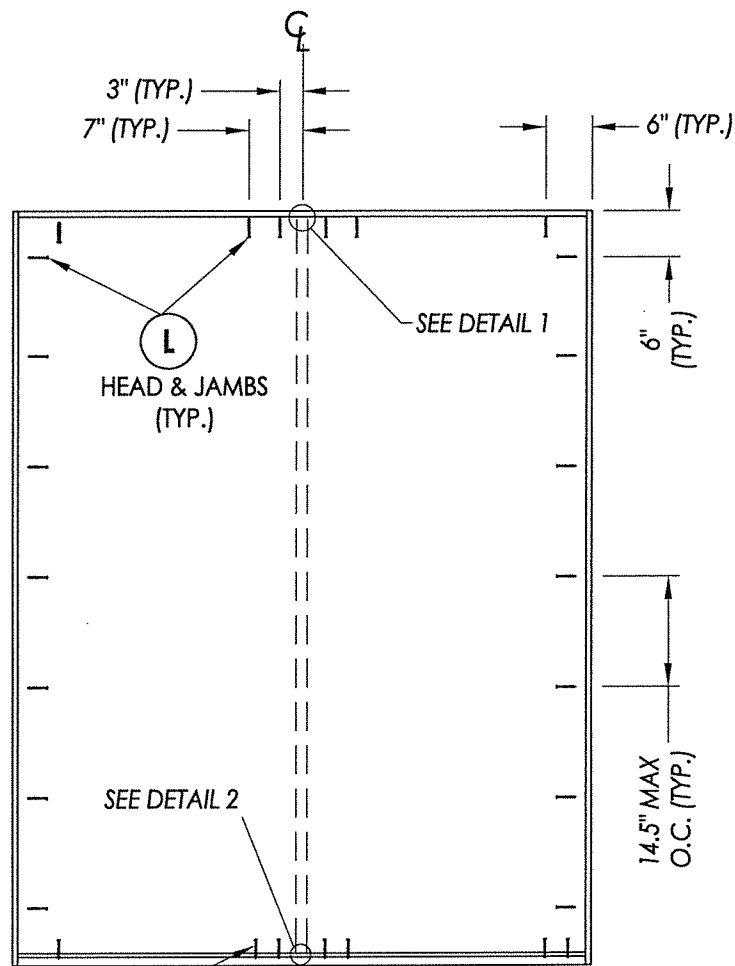
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 Phone No.: 813.659.9197
 TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

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

NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

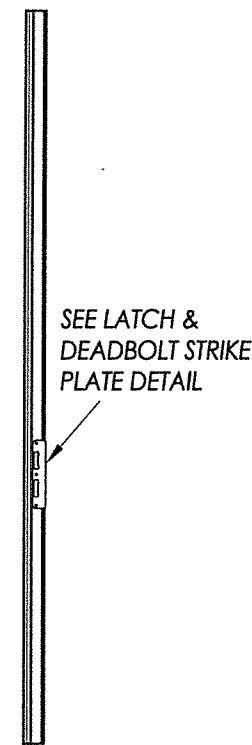
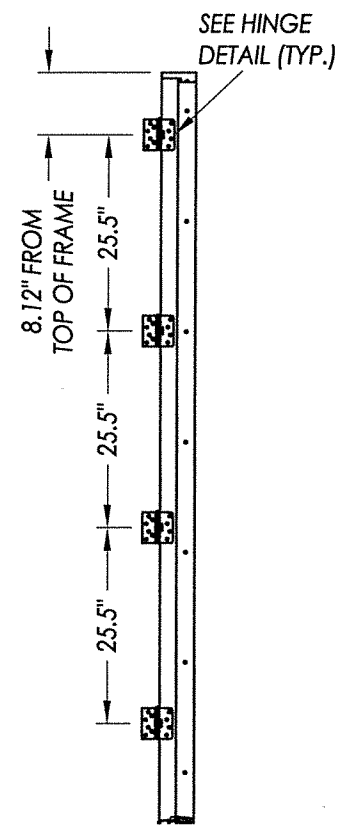
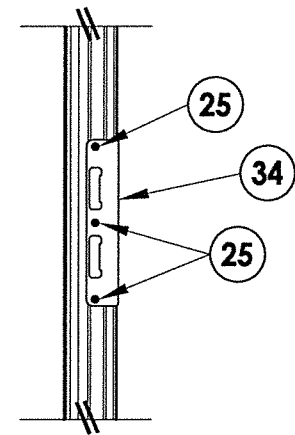
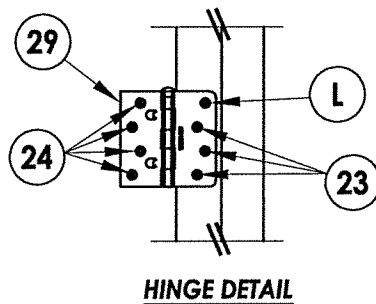
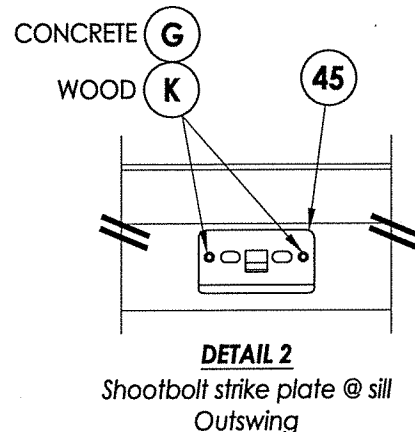
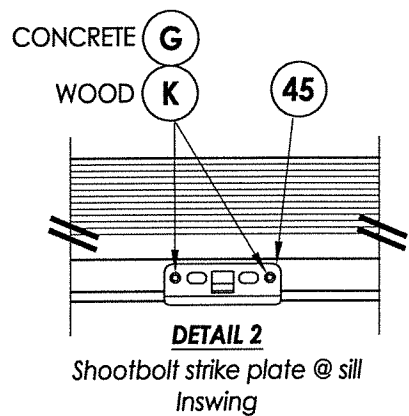
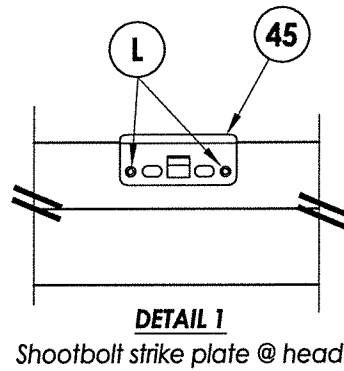
DATE: 7/28/15
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4562
 SHEET 6 OF 8

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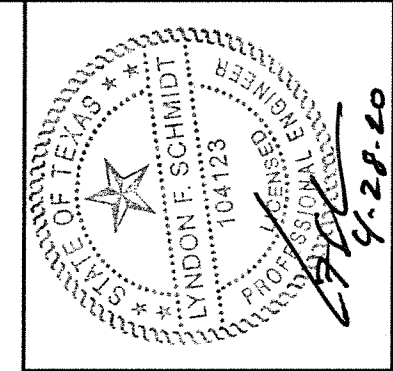


FRAME ANCHORING
XX
K WOOD
D CONCRETE
SILL (TYP.)

FRAME ANCHORING
XX
K WOOD
D CONCRETE
SILL (TYP.)



FRAME ANCHORING
2X stud framing
w/ wood/concrete substrate



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

PRODUCT: THERMA-TRU
FLUSH GLAZED DOOR
PART OR ASSEMBLY:
FRAME ANCHORING
& HARDWARE DETAILS

NO.	DATE	REVISIONS
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE
LFS		BY

DATE: 7/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4562
SHEET 7 OF 8

BILL OF MATERIALS

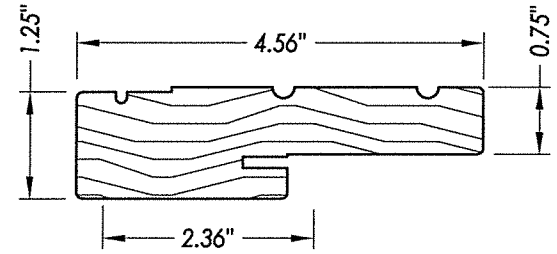
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
G	3/16" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
K	#10 PFH WOOD SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
6	WEATHERSTRIP (Medium Reach by Therma-Tru)	FOAM
7	WEATHERSTRIP (Long Reach by Therma-Tru)	FOAM
8	SWEEP	VINYL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
23	#10 x 3/4" PFH WOOD SCREW	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
34	LATCH & DEADBOLT STRIKE PLATE	STEEL
40	3'-0" DOOR/SIDELITE PANEL - 3/4 LITE (FLUSH GLAZED)	-
44	ASTRAGAL (THERMA-TRU)	ALUM
45	SHOOTBOLT STRIKE PLATE	STEEL
50	3'-0" SIDELITE PANEL - FULL LITE (FLUSH GLAZED)	-
60	3'-0" SIDELITE PANEL - FULL LITE (BTS LITE FRAME)	-
72	#10 X 2" PFH WOOD SCREW	STEEL
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC

CONCRETE ANCHOR NOTES:

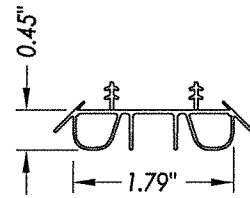
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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®	3/16"	1-3/4"	3"	1-1/2"
	1/4"	1-3/4"	1-1/2"	4"
ELCO ULTRACON®	1/4"	1-3/4"	1"	4"

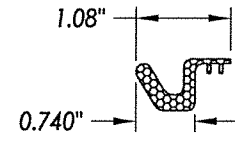
MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90



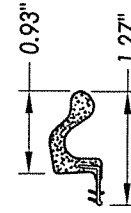
1 WOOD JAMB



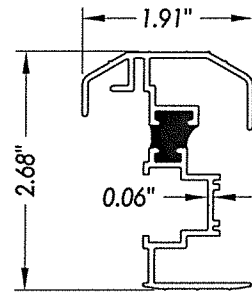
8 SWEEP



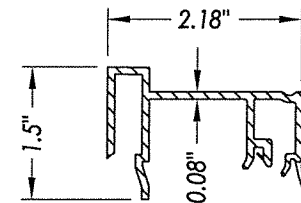
6 WEATHERSTRIP Medium Reach



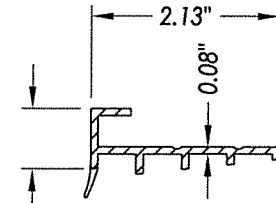
7 WEATHERSTRIP Long Reach



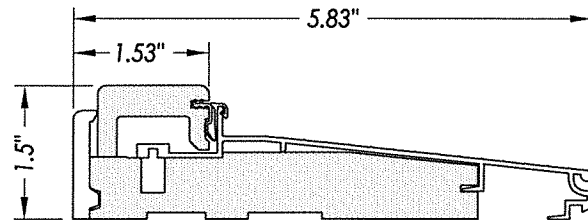
44 ASTRAGAL



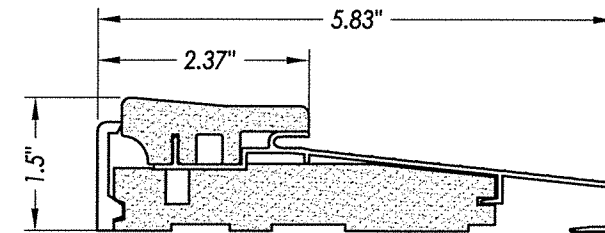
75 SIDELITE SPACER Inswing



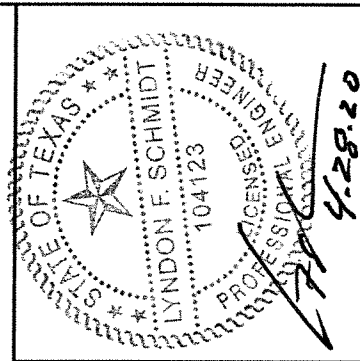
76 SIDELITE SPACER Outswing



13 INSWING THRESHOLD



14 OUTSWING THRESHOLD



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PRODUCT: THERMA-TRU
FLUSH GLAZED DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS &
COMPONENTS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	4/28/20			

DATE: 7/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4562

SHEET 8 OF 8