THERMA-TRU®
DOORS

Fiber-Classic® & Smooth-Star®

COMPOSITE EDGE
GLAZED FIBERGLASS DOUBLE DOOR
w/ BLINDS BETWEEN GLASS
INSWING/OUTSWING
"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. This system has been tested and evaluated as a large missile impact protective system for installation in areas that require wind borne debris protection. This product meets missile level "D" as defined in ASTM E 1996.
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 & Sidelite panels require the use of "J" part numbers. These door panels must be stained or painted within six months of installation.

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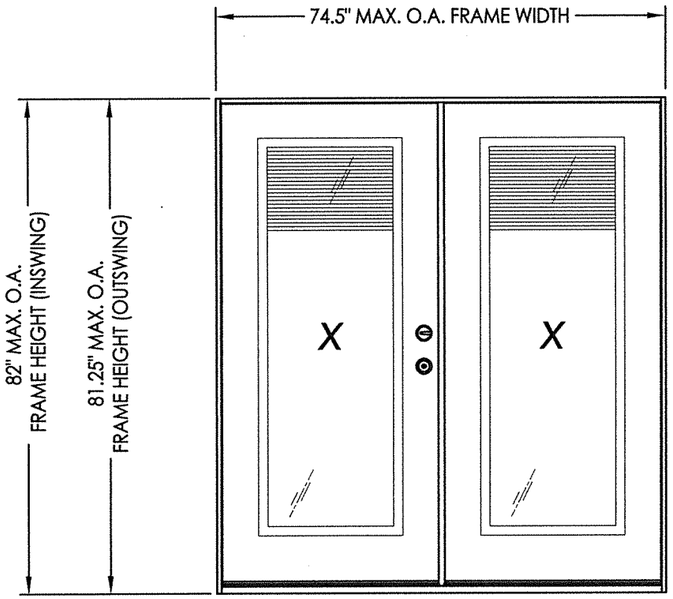
7	Hardware Details
8	Lite Frame & Glazing Details
9	Bill of Materials & Components



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX	+50.0	-55.0	+50.0	-50.0

STATE OF TEXAS
LYNDON F. SCHMIDT
104123
LICENSED PROFESSIONAL ENGINEER
7.26.21

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

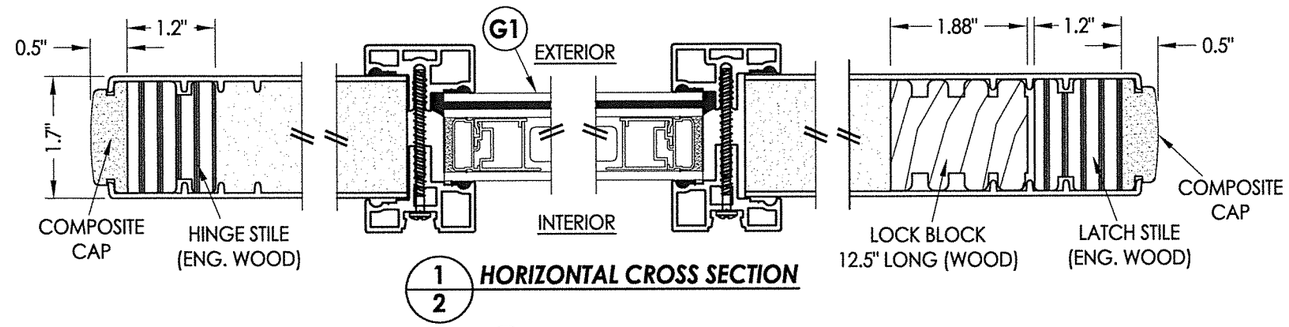
PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

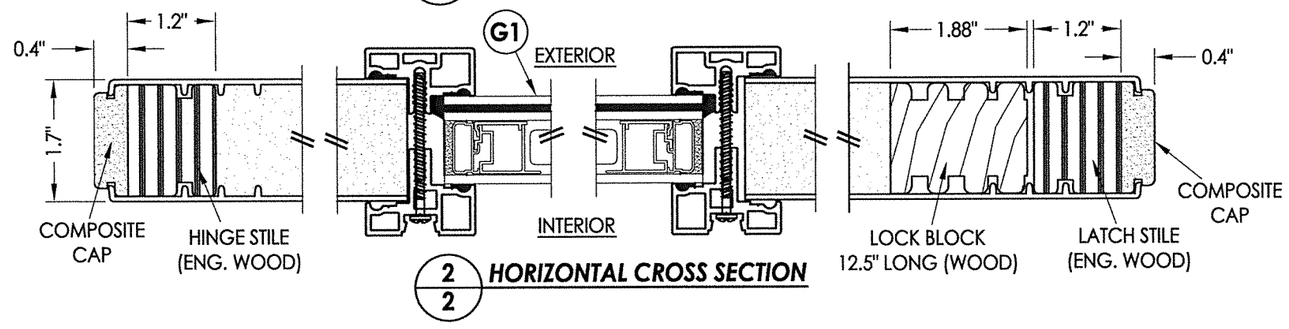
NO.	DATE	BY	REVISIONS

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 1 OF 9

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 6'8 & 8'0 BBG FG Imp Comp Jambs (TX 5224-5229)\C - Drawings\TX-5224-5226.dwg



1/2 **HORIZONTAL CROSS SECTION**



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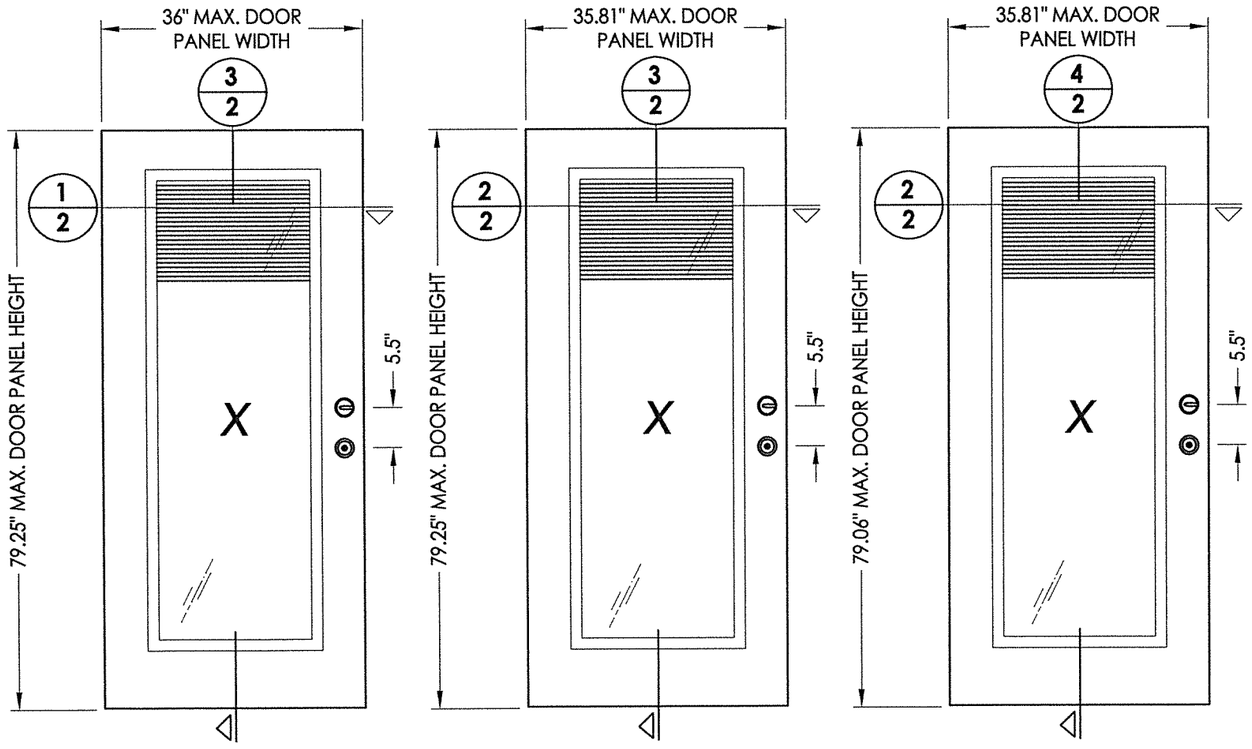
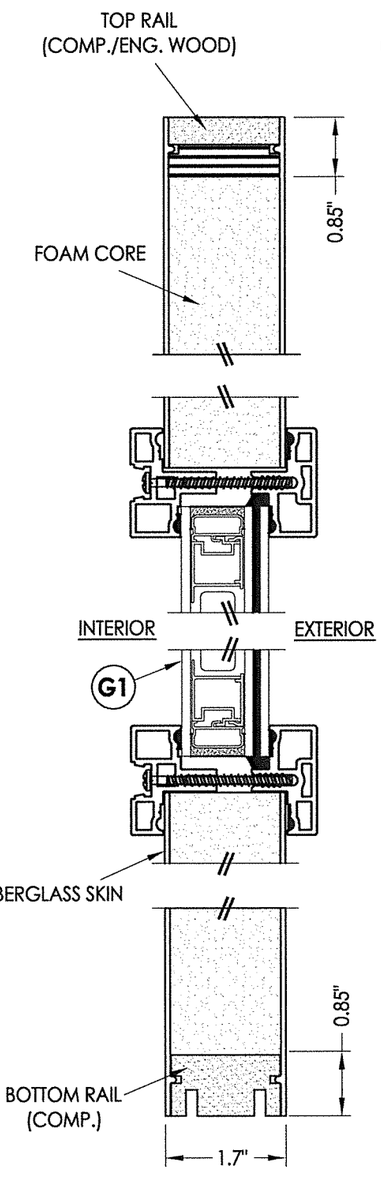


40 **FIBERGLASS DOOR PANEL** BOOK DOOR - COMPOSITE EDGE

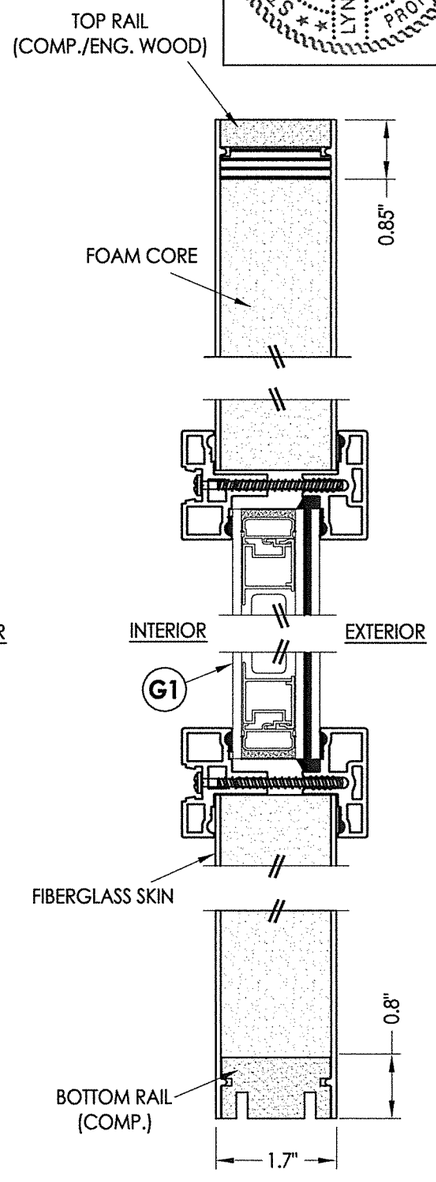
41 **FIBERGLASS DOOR PANEL** HYBRID DOOR - COMPOSITE EDGE

42 **FIBERGLASS DOOR PANEL** U1 DOOR - COMPOSITE EDGE

FIBERGLASS SKIN: 0.073" MIN. THK.
FOAM CORE: POLYURETHANE -1.9 PCF MIN.



3/2 **VERTICAL CROSS SECTION**



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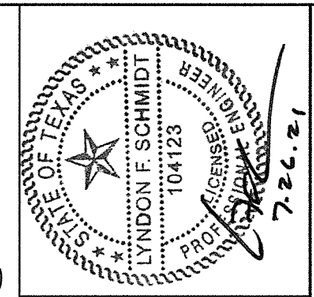

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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *DOOR PANEL DETAILS*

NO.	DATE	BY
REVISIONS		

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 2 OF 9

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 6'8 & 8'0 BBG FG Imp Comp Jambs (TX 5224-5229)\C - Drawings\TX-5224-5226.dwg

HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

STATE OF TEXAS
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

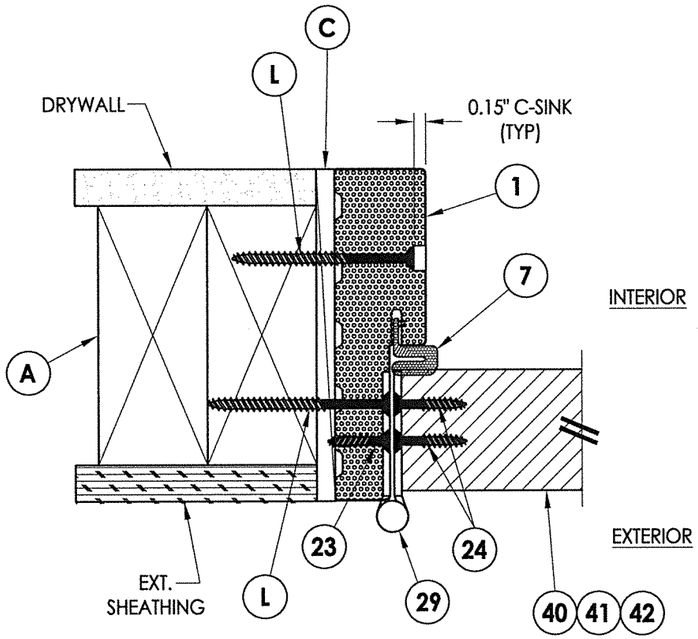
PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	BY

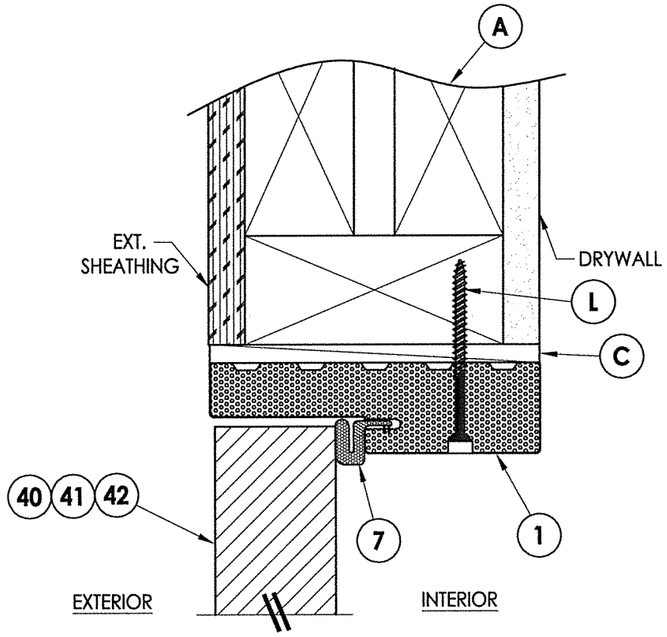
REVISIONS

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 3 OF 9

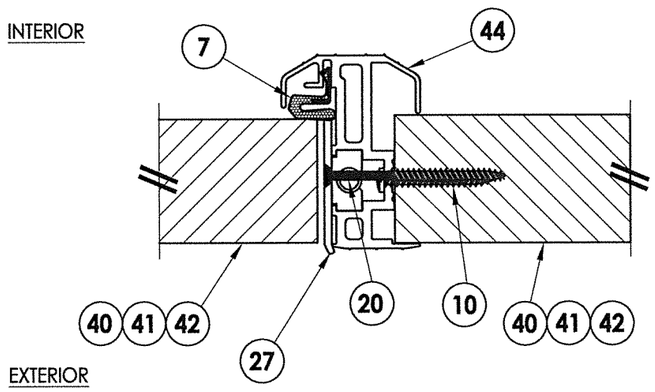
Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 6'8 & 8'0 BBG FG Imp Comp Jambs (TX 5224-5229)\C - Drawings\TX-5224-5226.dwg



1/4 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)



2/4 **VERTICAL CROSS SECTION**
Outswing shown (Inswing similar)



3/4 **HORIZONTAL CROSS SECTION**
Outswing shown (Inswing similar)

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CERTIFICATE OF REGISTRATION # F-11852

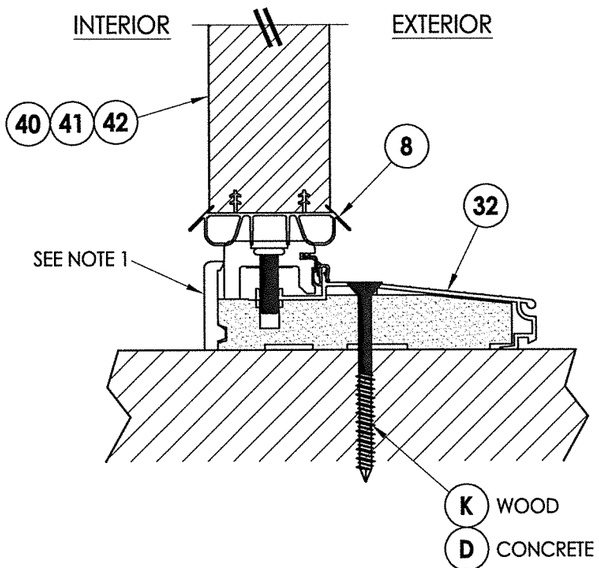
PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *HORIZONTAL & VERTICAL CROSS SECTIONS*

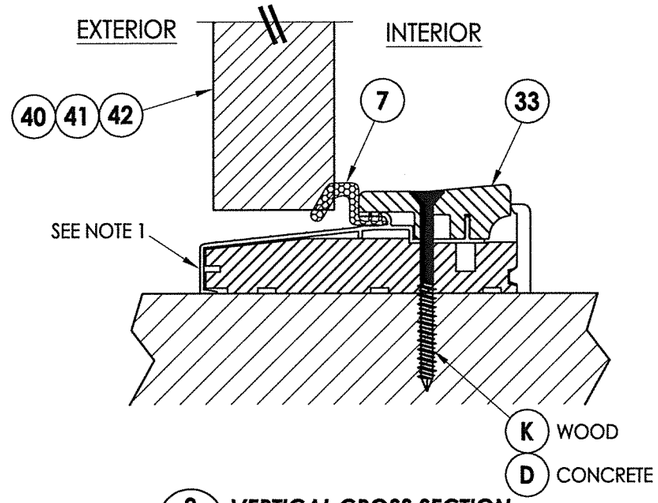
NO.	DATE	BY
REVISIONS		

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 4 OF 9

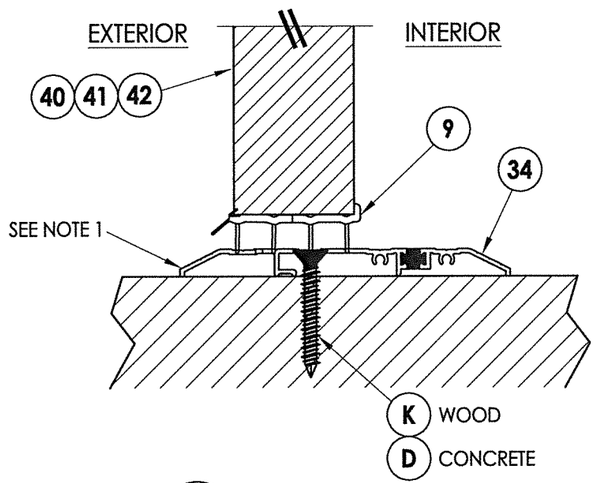
Notes:
1. Sill Item #32 is attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
   Sill Item #33 is attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
   Sill Item #34 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.



1/5 **VERTICAL CROSS SECTION**
Inswing Sill



2/5 **VERTICAL CROSS SECTION**
Outswing Sill



3/5 **VERTICAL CROSS SECTION**
Outswing Sill

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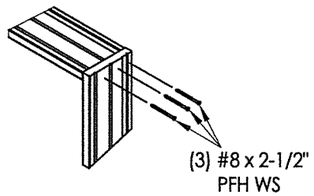
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

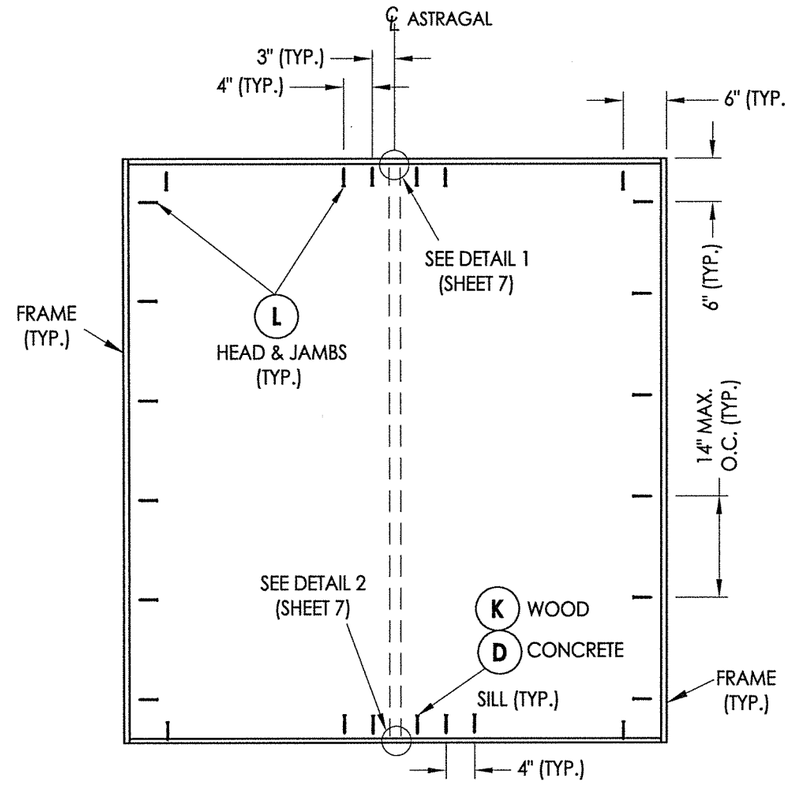
PART OR ASSEMBLY: *VERTICAL CROSS SECTIONS*

NO.	DATE	BY
REVISIONS		

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 5 OF 9



JAMB TO HEAD DETAIL
(TYP.)



XX

FRAME ANCHORING

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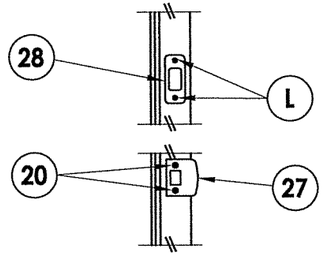
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU FIBERGLASS DOOR

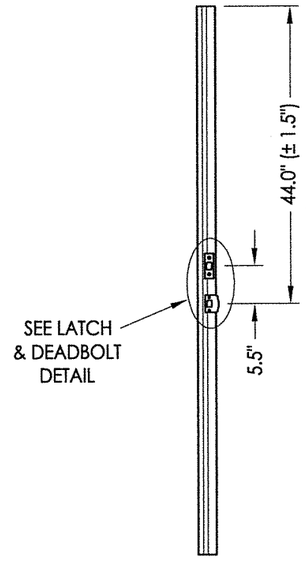
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	BY
REVISIONS		

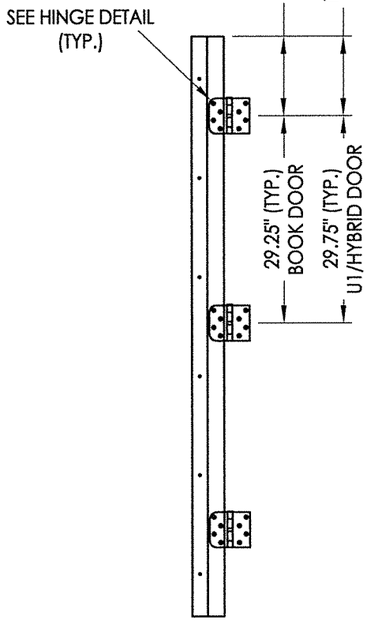
DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 6 OF 9



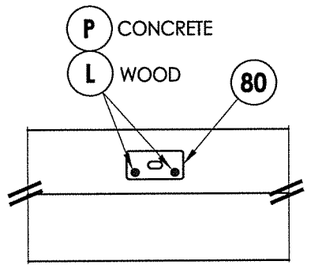
LATCH & DEADBOLT DETAIL
Schlage / Kwikset



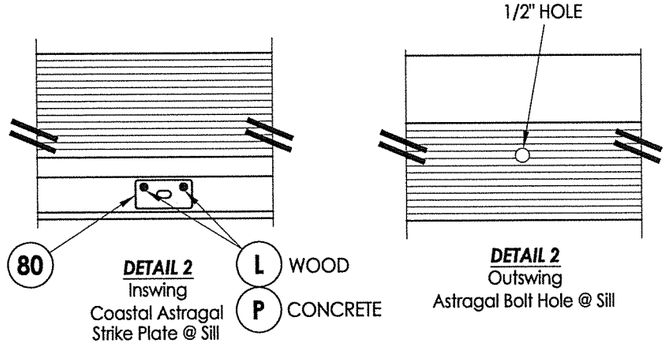
ASTRAGAL
Latch and Deadbolt



HINGE JAMB

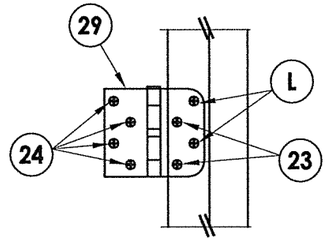


DETAIL 1
Coastal Astragal Strike Plate @ Head

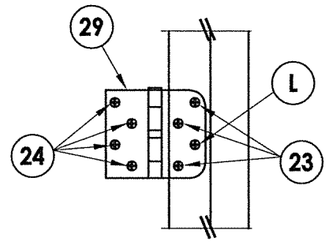


DETAIL 2
Inswing
Coastal Astragal
Strike Plate @ Sill

DETAIL 2
Outswing
Astragal Bolt Hole @ Sill



HINGE DETAIL
Inswing



HINGE DETAIL
Outswing

LATCH & DEADBOLT STRIKE DETAILS

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

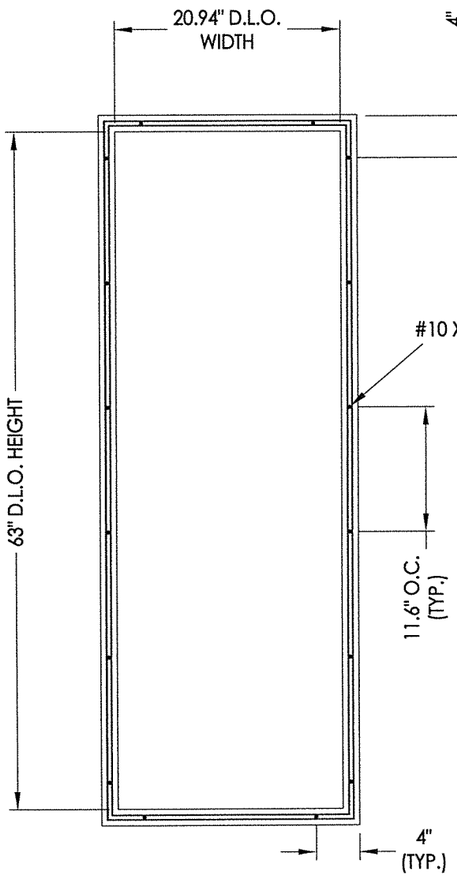
PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *HARDWARE DETAILS*

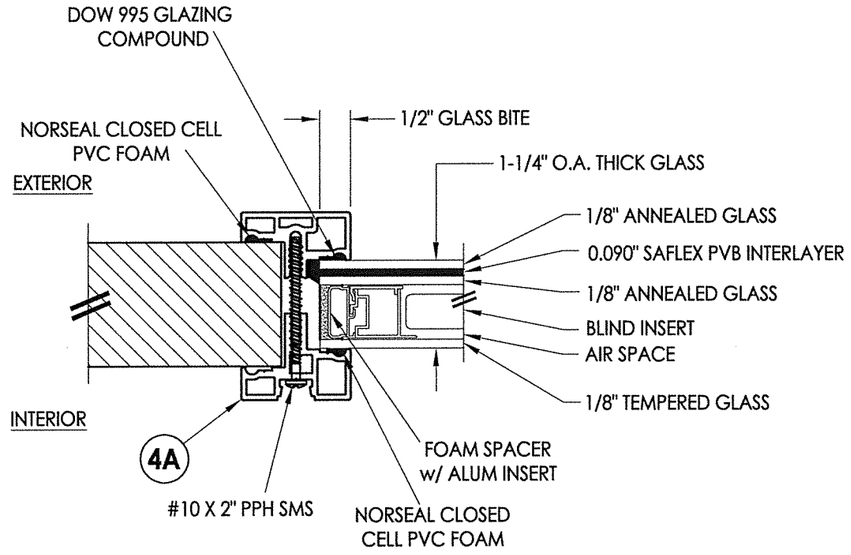
NO.	DATE	BY

REVISIONS

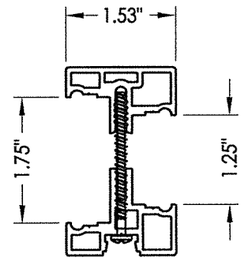
DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 7 OF 9



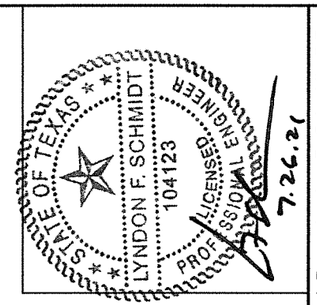
6"-8" LITE FRAME
ALUM. (6063-T5)



G1 ***GLAZING DETAIL***
1-1/4" Insulated Laminated Glass
w/ Internal Blinds



4A ***ALUMINUM IMPACT LITE FRAME***



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

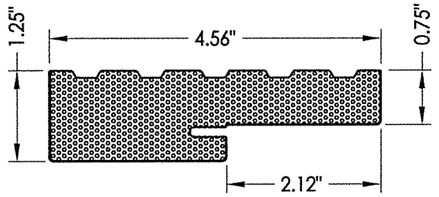
PART OR ASSEMBLY: *LITE FRAME & GLAZING DETAILS*

NO.	DATE	REVISIONS	BY

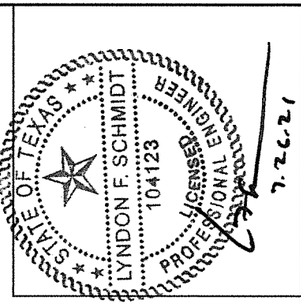
DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 8 OF 9

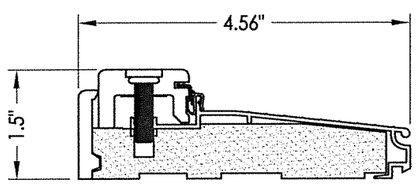
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
F	#10 X 2" PFH WOOD SCREW	STEEL
K	#10 PFH WOOD SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
P	3/16" PFH ITW CONCRETE SCREW (1-3/4" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	DOOR SWEEP	VINYL
9	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
10	#10 X 1-1/2" PPH SMS	STEEL
20	#8 X 2-1/2" PFH WOOD SCREW	STEEL
21	#12 X 1-1/2" PFH WOOD SCREW	STEEL
22	#8 X 3/4" PFH WOOD SCREW	STEEL
23	#9 X 3/4" PFH WOOD SCREW	STEEL
24	#9 X 1" PFH WOOD SCREW	STEEL
25	#9 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
28A	DEADBOLT SUB-STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
33	OUTSWING THRESHOLD	ALUM/COMP
34	PUBLIC ACCESS THRESHOLD	ALUM
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
44	COASTAL ASTRAGAL (THERMA-TRU)	ALUM
78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
80	COASTAL ASTRAGAL STRIKE PLATE	STEEL

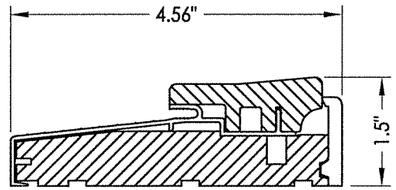


1 COMPOSITE JAMB

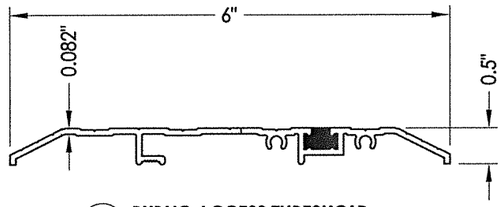




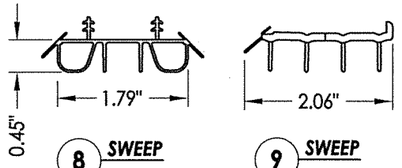
32 INSWING THRESHOLD
Adjustable Composite Sill



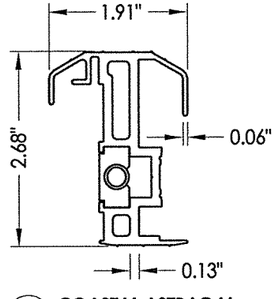
33 OUTSWING THRESHOLD
Composite Sill



34 PUBLIC ACCESS THRESHOLD



8 SWEEP **9 SWEEP**



44 COASTAL ASTRAGAL

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"	1-1/4"	2"	4"
DeWALT ULTRACON+®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	1-1/2"

WOOD SCREW INSTALLATION NOTES:

1. *Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.*

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

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

PRODUCT: *THERMA-TRU FIBERGLASS DOOR*

PART OR ASSEMBLY: *BILL OF MATERIALS & COMPONENTS*

NO.	DATE	REVISIONS	BY

DATE: 7/21/21
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: TX-5226
SHEET 9 OF 9

Z:\Clients\Therma Tru PERMANENT\B - Texas Dept of Ins\TDI - XXX ID XXXX- 6'8 & 8'0 BBG FG Imp Comp Jambs (TX 5224-5229)\C - Drawings\TX-5224-5226.dwg