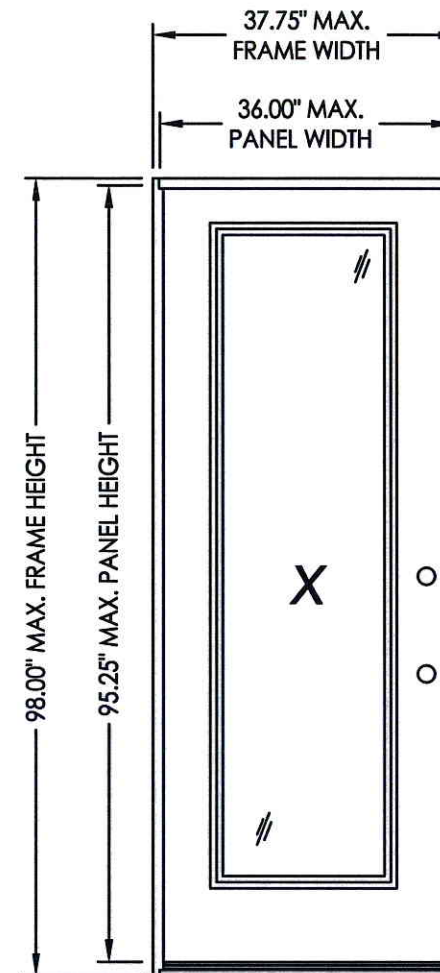


THERMA-TRU®

118 INDUSTRIAL DR., EDGERTON, OH 43517
 TEL. (419)298-1740

"SMOOTH STAR", "FIBER CLASSIC", "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC" GLAZED FIBERGLASS SINGLE DOOR INSWING / OUTSWING "IMPACT"



"SMOOTH STAR", "FIBER CLASSIC"
 "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC"

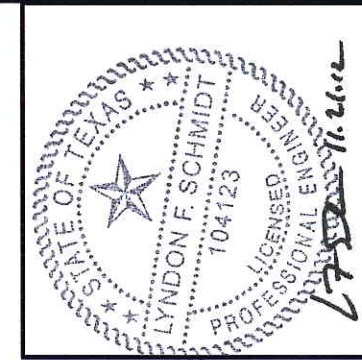
EVALUATED FOR USE IN THE STATE OF TEXAS

The Fiberglass Glazed 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. This system has been tested and evaluated as a large missile impact protective system for installation in the Seaward, Inland I and Inland II areas. 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.

| TABLE OF CONTENTS | |
|-------------------|---|
| SHEET # | DESCRIPTION |
| 1 | TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES |
| 2 | "SMOOTH STAR" DOOR PANEL DETAILS |
| 3 | "CLASSIC CRAFT" & "CLASSIC CRAFT RUSTIC" DOOR PANEL DETAILS |
| 4 | "FIBER CLASSIC" DOOR PANEL DETAILS |
| 5 | HORIZONTAL CROSS SECTIONS |
| 6 | VERTICAL CROSS SECTIONS |
| 7 | FRAME ANCHORING |
| 8 | COMPONENTS |
| 9 | BILL OF MATERIALS & COMPONENTS |

| SWING | OVERALL FRAME DIMENSION | OVERALL D.L.O. DOOR / SIDELITE DIMENSION | DESIGN PRESSURE (PSF) | |
|----------|-------------------------|--|-----------------------|----------|
| | | | POSITIVE | NEGATIVE |
| INSWING | 37.75" X 98.00" | 21.00" X 78.75" | +50.0 | -50.0 |
| OUTSWING | 37.75" X 96.75" | 21.00" X 78.75" | +50.0 | -50.0 |



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

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 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197

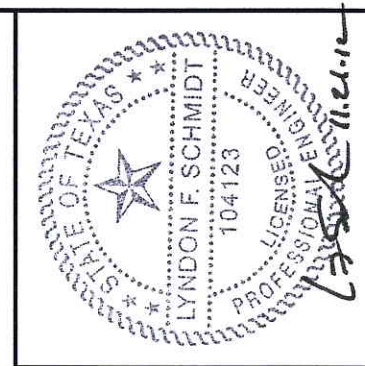
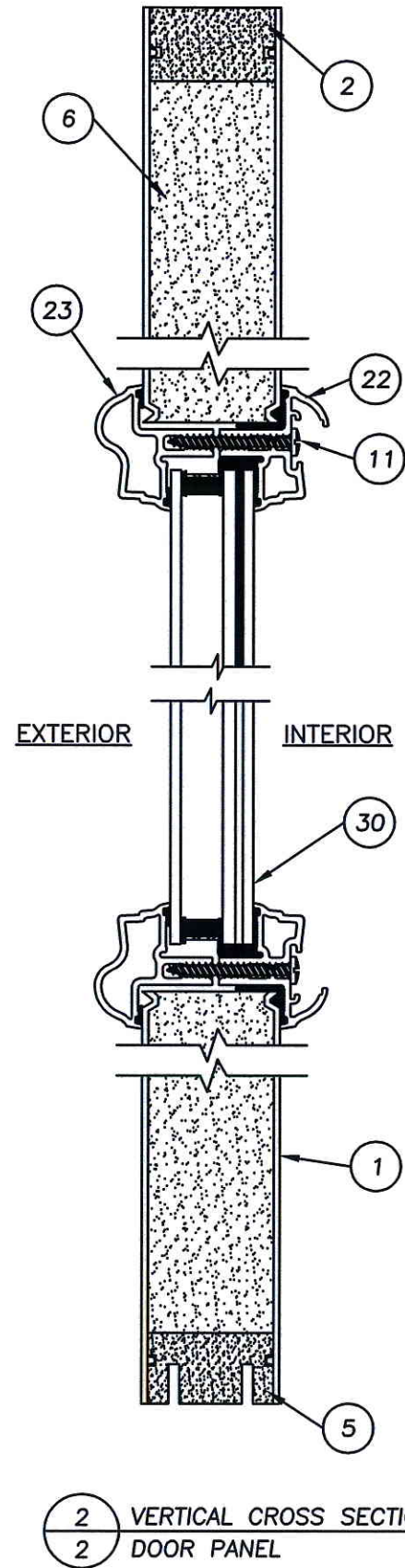
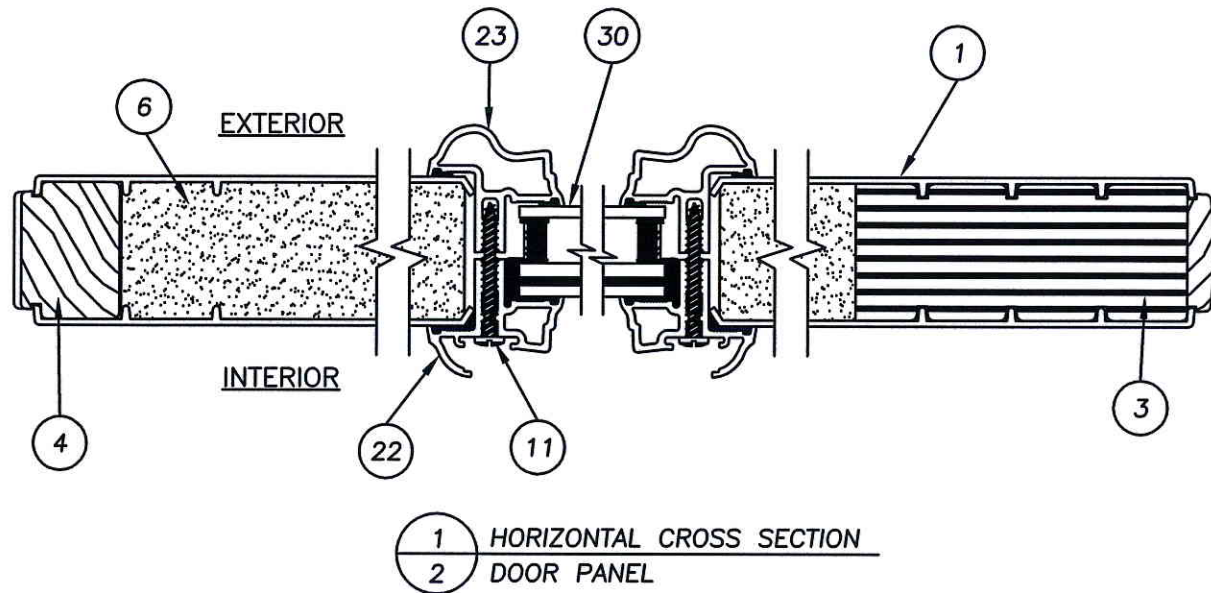
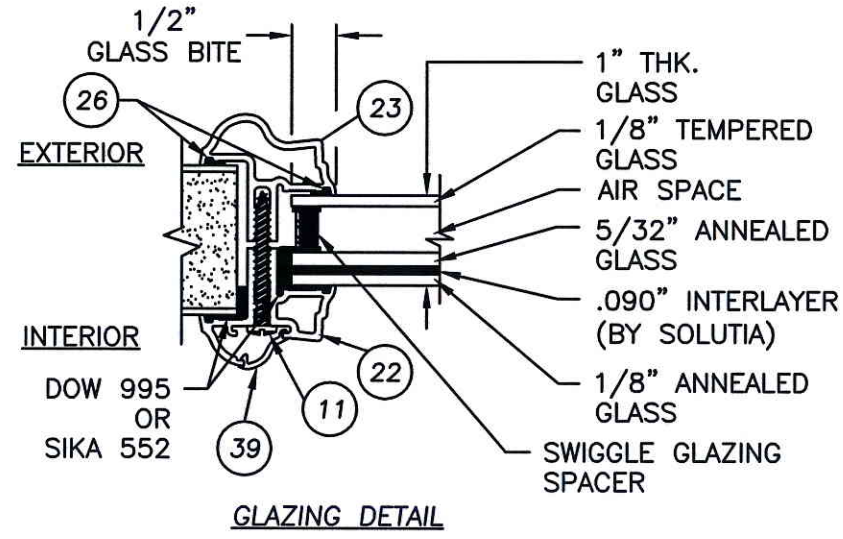
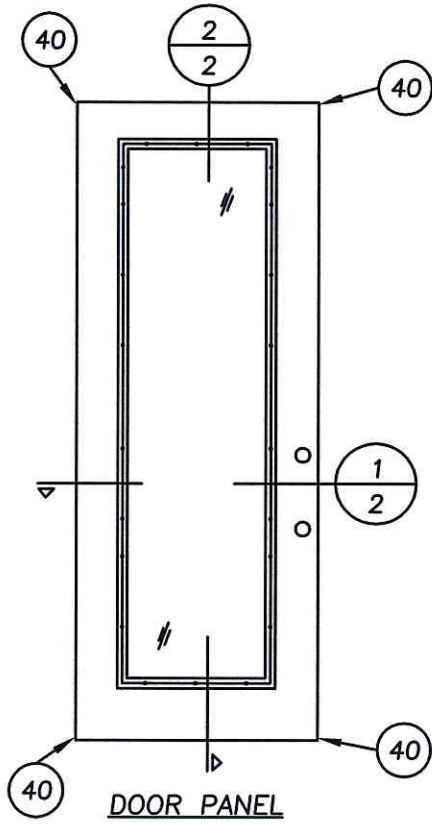
TEXAS BOARD OF PROFESSIONAL ENGINEERS
 CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
 GLAZED FIBERGLASS DOOR
 IN/OUTSWING "IMPACT"

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

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
| | | | |

DATE: 7/17/12
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4195
 SHEET 1 OF 9

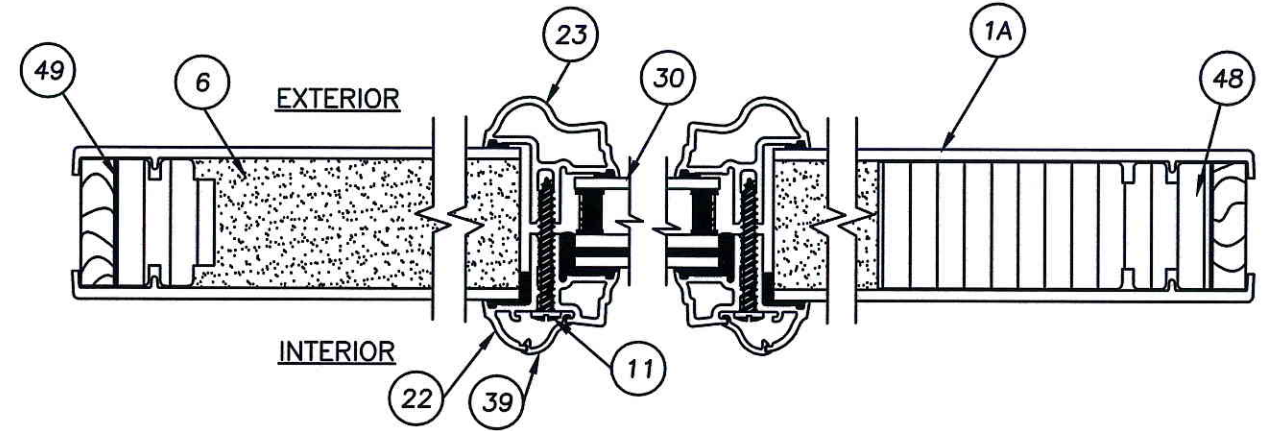
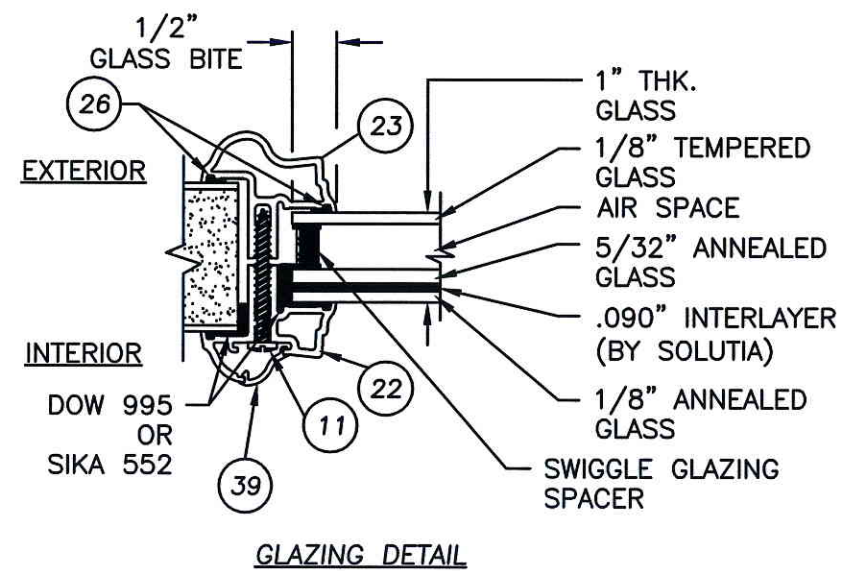
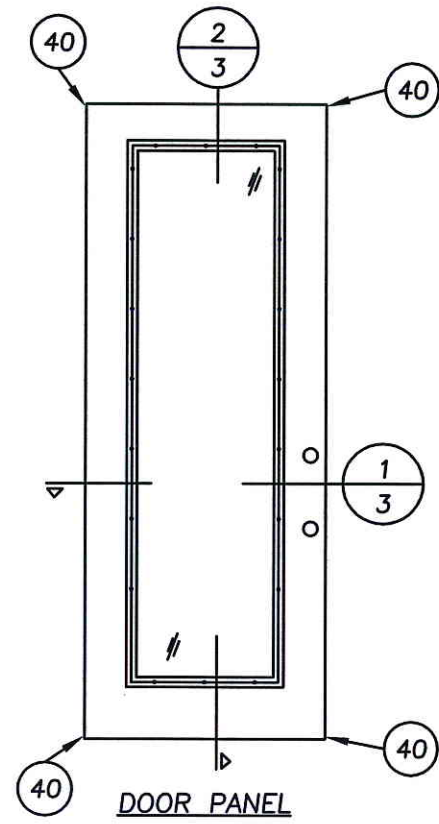


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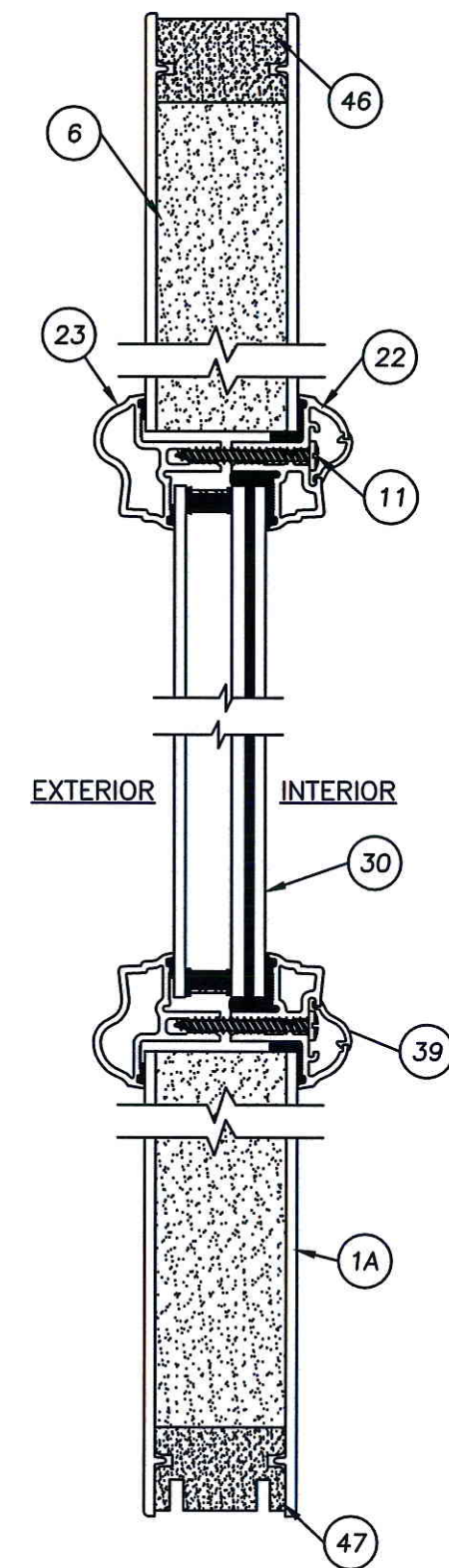
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197

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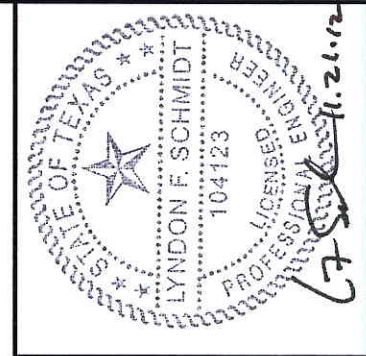
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| PRODUCT: | THERMA-TRU GLAZED FIBERGLASS DOOR IN/OUTSWING "IMPACT" | |
| PART OR ASSEMBLY: | "SMOOTH STAR" DOOR PANEL DETAILS | |
| DATE: | 7/17/12 | |
| SCALE: | N.T.S. | |
| DWG. BY: | JK | |
| CHK. BY: | LFS | |
| DRAWING NO.: | TX-4195 | |
| SHEET | 2 | OF 9 |



1 HORIZONTAL CROSS SECTION
3 DOOR PANEL



2 VERTICAL CROSS SECTION
3 DOOR PANEL



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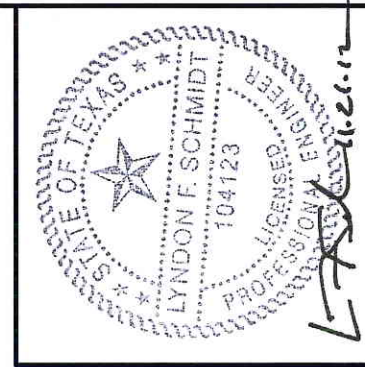
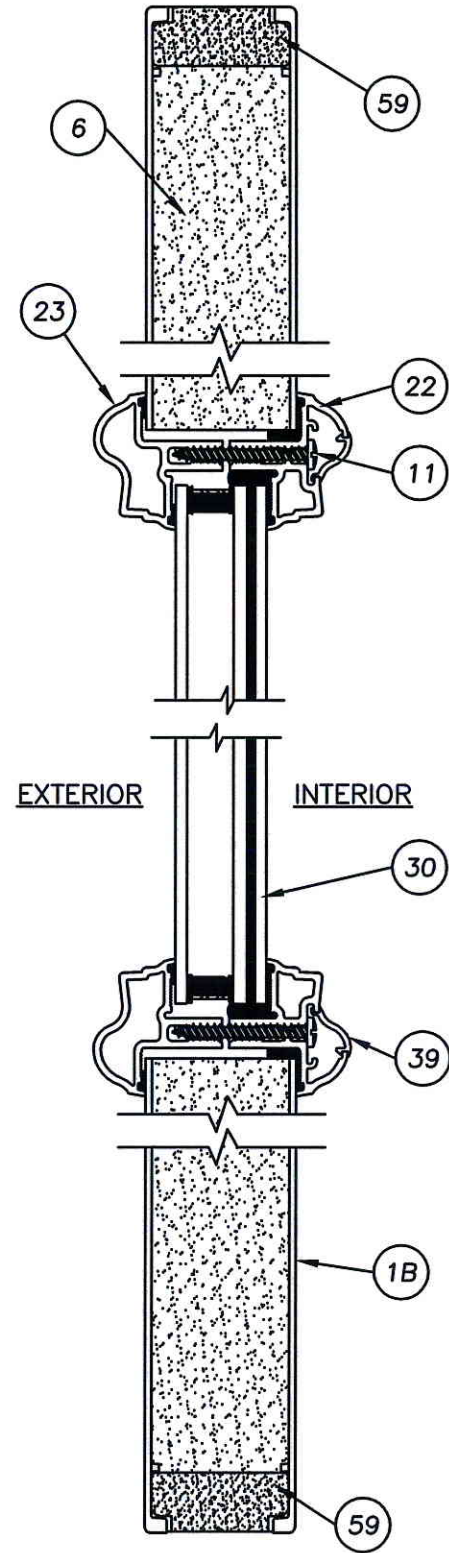
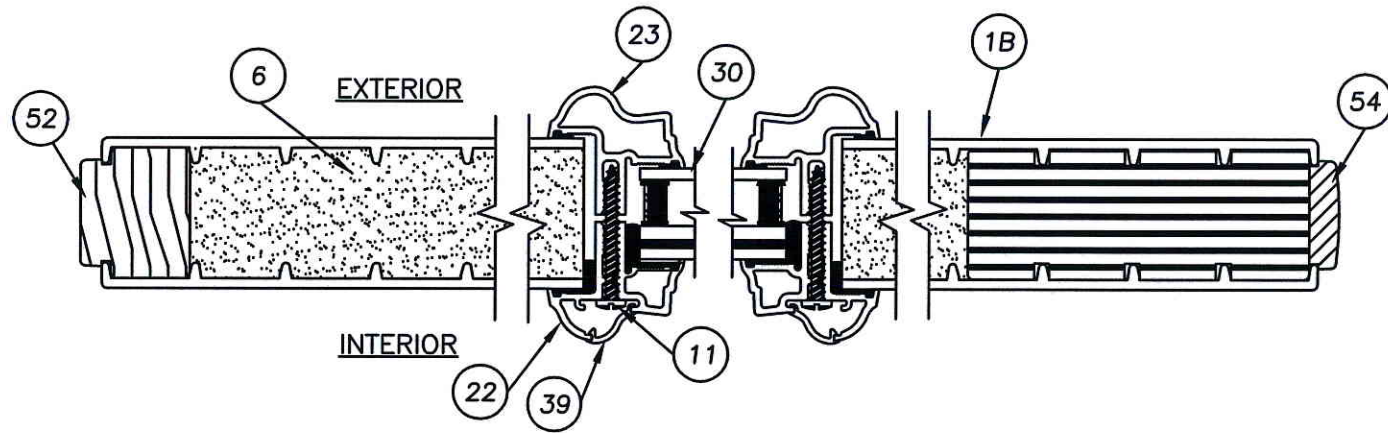
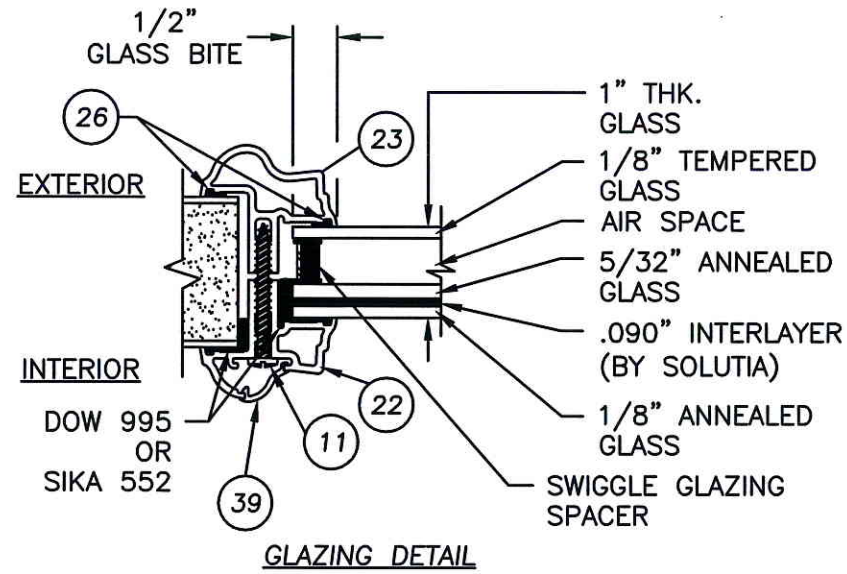
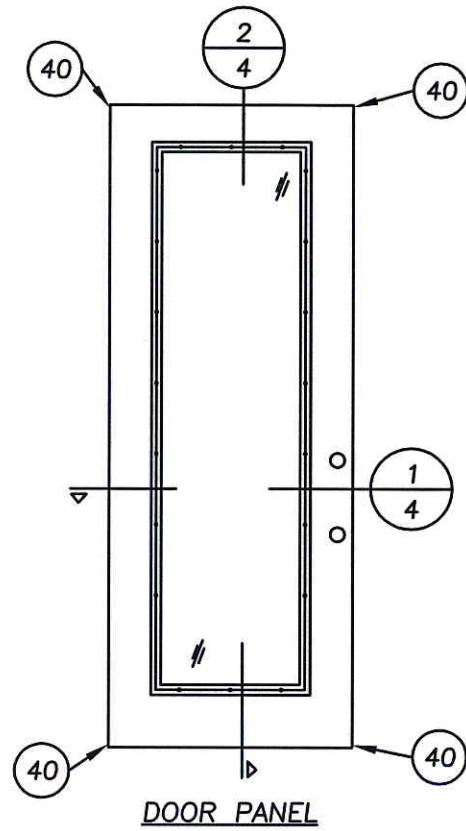
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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DOOR
IN/OUTSWING "IMPACT"

PART OR ASSEMBLY:
"CLASSIC CRAFT" & "C.C. RUSTIC"
DOOR PANEL DETAILS

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4195
SHEET 3 OF 9



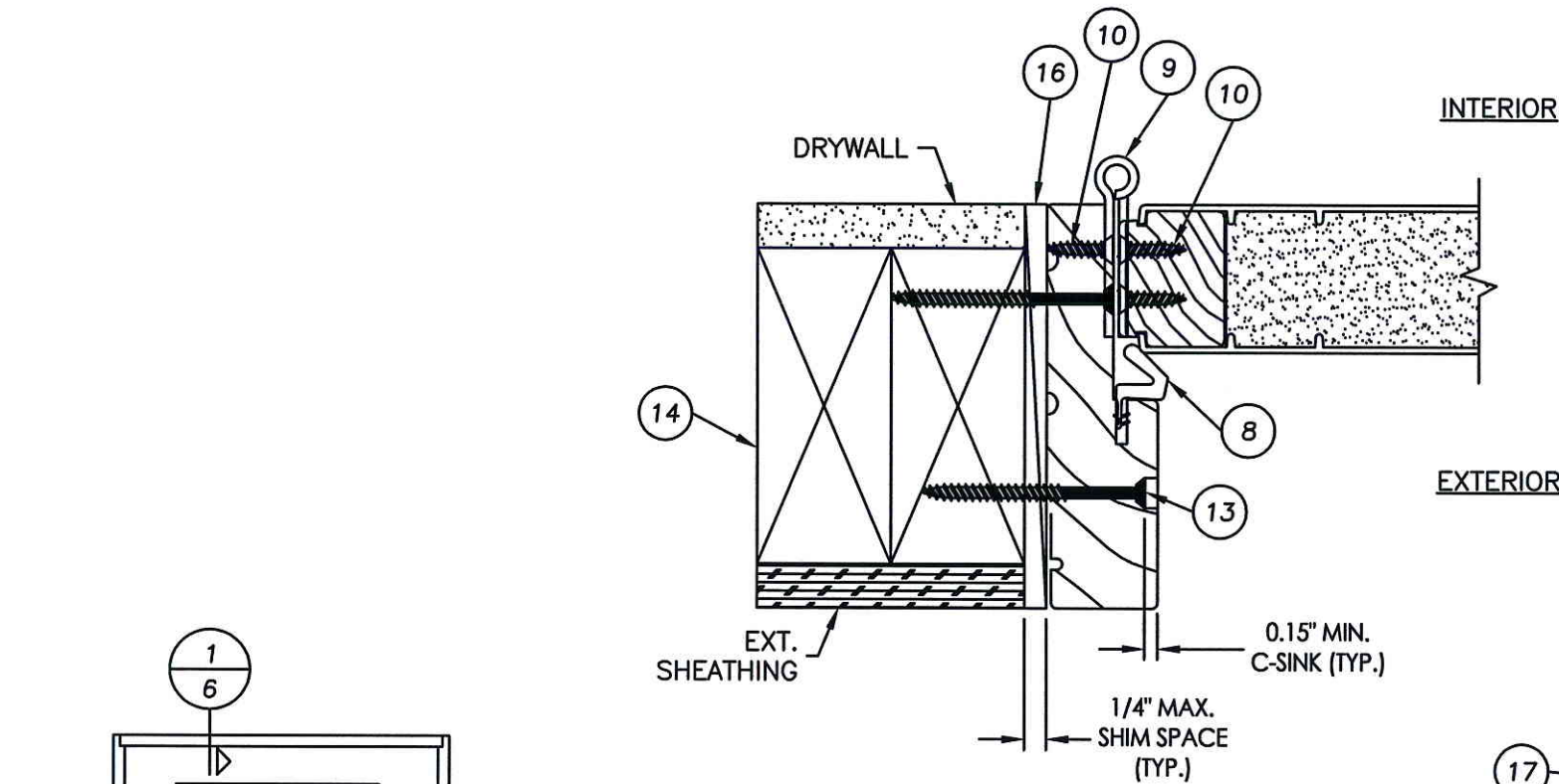
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

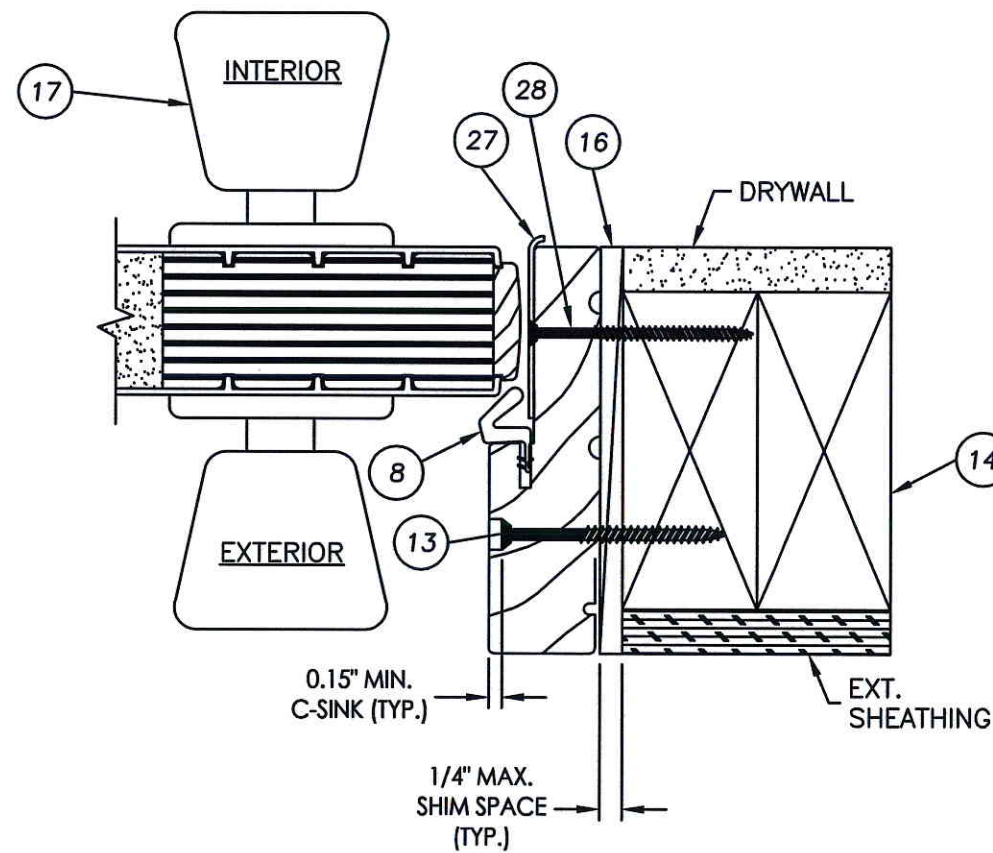
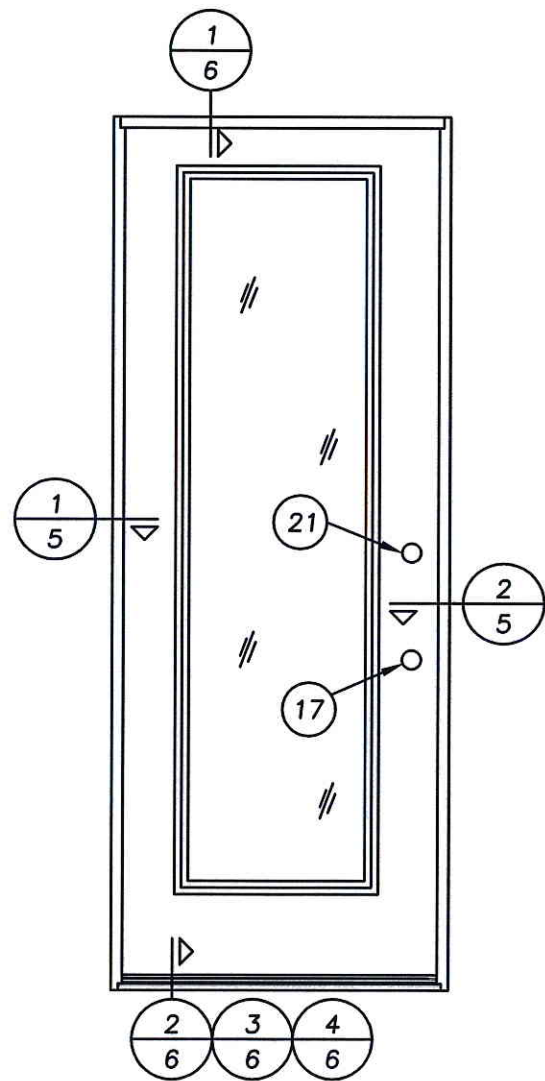
PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DOOR
IN/OUTSWING "IMPACT"
PART OR ASSEMBLY:
"FIBER CLASSIC"
DOOR PANEL DETAILS

| NO. | DATE | BY |
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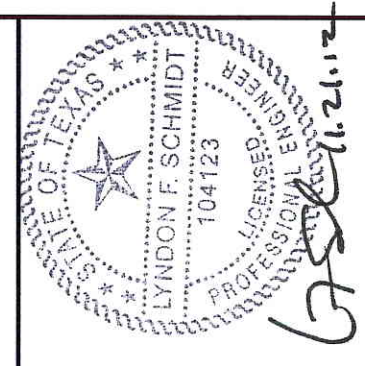
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CHK. BY: LFS
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SHEET 4 OF 9



1 HORIZONTAL CROSS SECTION
5 INSWING SHOWN (OUTSWING ALSO APPROVED)
 ("Smooth Star Series" shown)

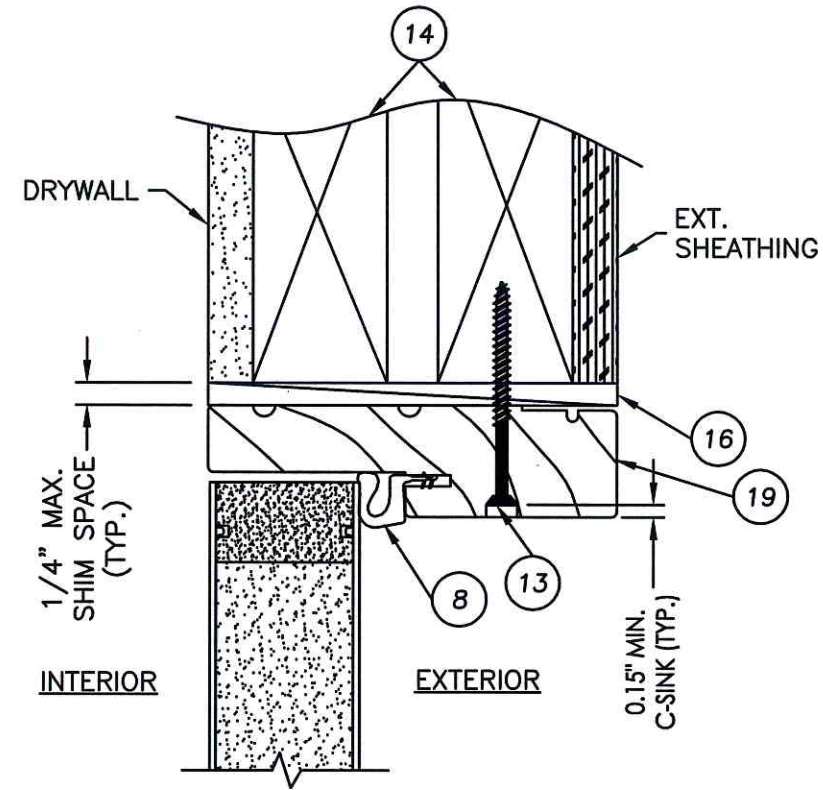


2 HORIZONTAL CROSS SECTION
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 ("Smooth Star Series" shown)

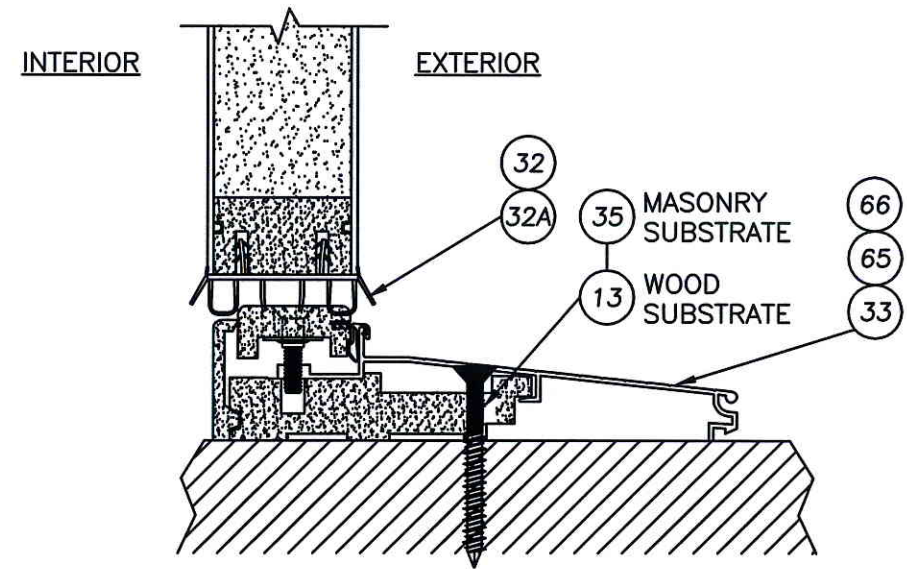


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 P.O. Box 230 Valrico FL 33595
 Phone No.: 813.659.9197
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 CERTIFICATE OF REGISTRATION # F-11852

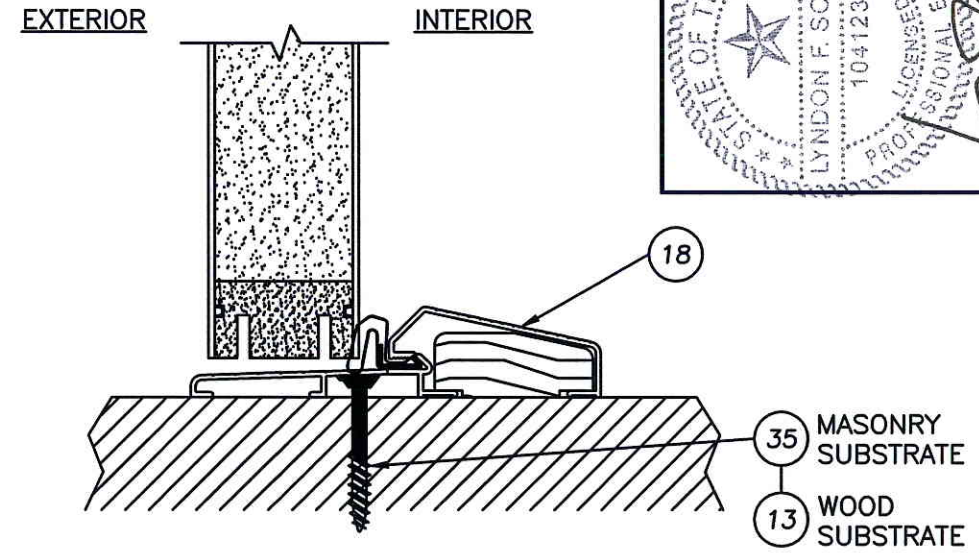
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| PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR IN/OUTSWING "IMPACT" | |
| PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS | |
| NO. | DATE |
| BY | REVISIONS |
| DATE: 7/17/12 | |
| SCALE: N.T.S. | |
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| CHK. BY: LFS | |
| DRAWING NO.: TX-4195 | |
| SHEET 5 OF 9 | |



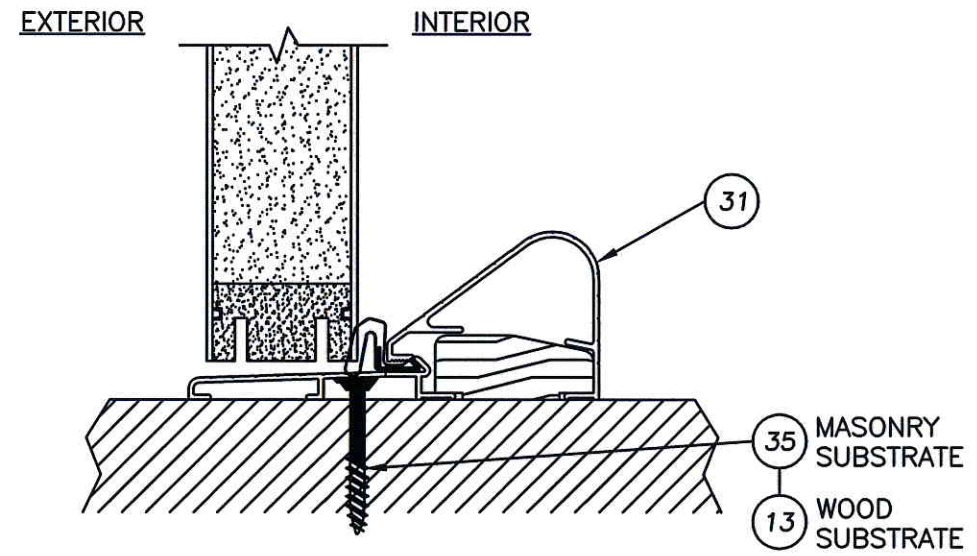
1 VERTICAL CROSS SECTION
6 INSWING SHOWN (OUTSWING ALSO APPROVED)
("SMOOTH STAR SERIES" SHOWN)



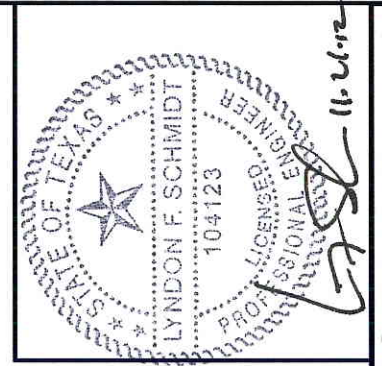
2 VERTICAL CROSS SECTION
6 INSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



3 VERTICAL CROSS SECTION
6 OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)



4 VERTICAL CROSS SECTION
6 OUTSWING CONFIGURATION
("SMOOTH STAR SERIES" SHOWN)

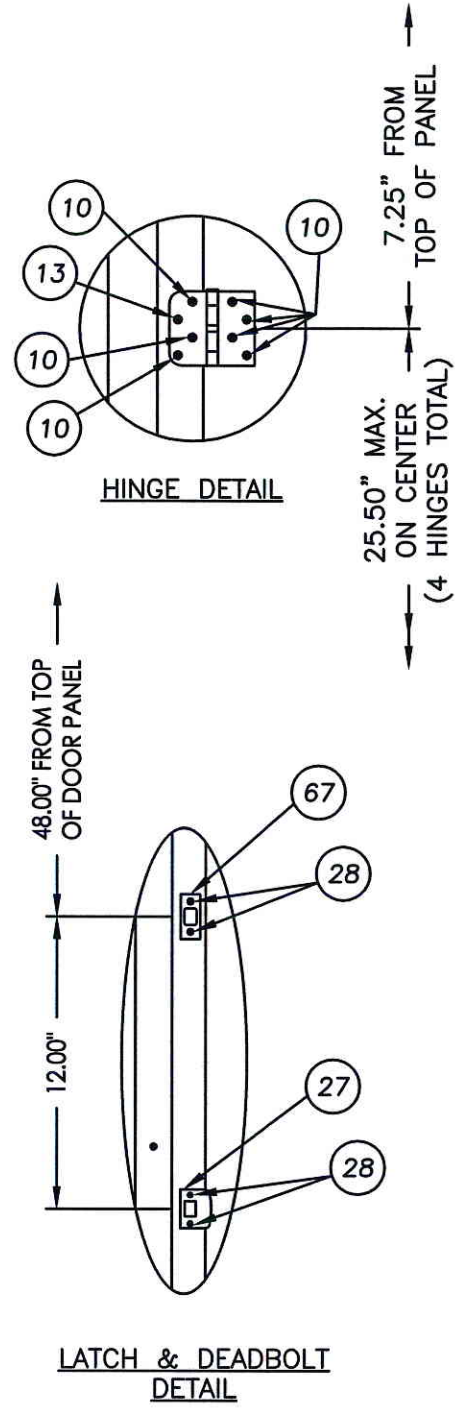
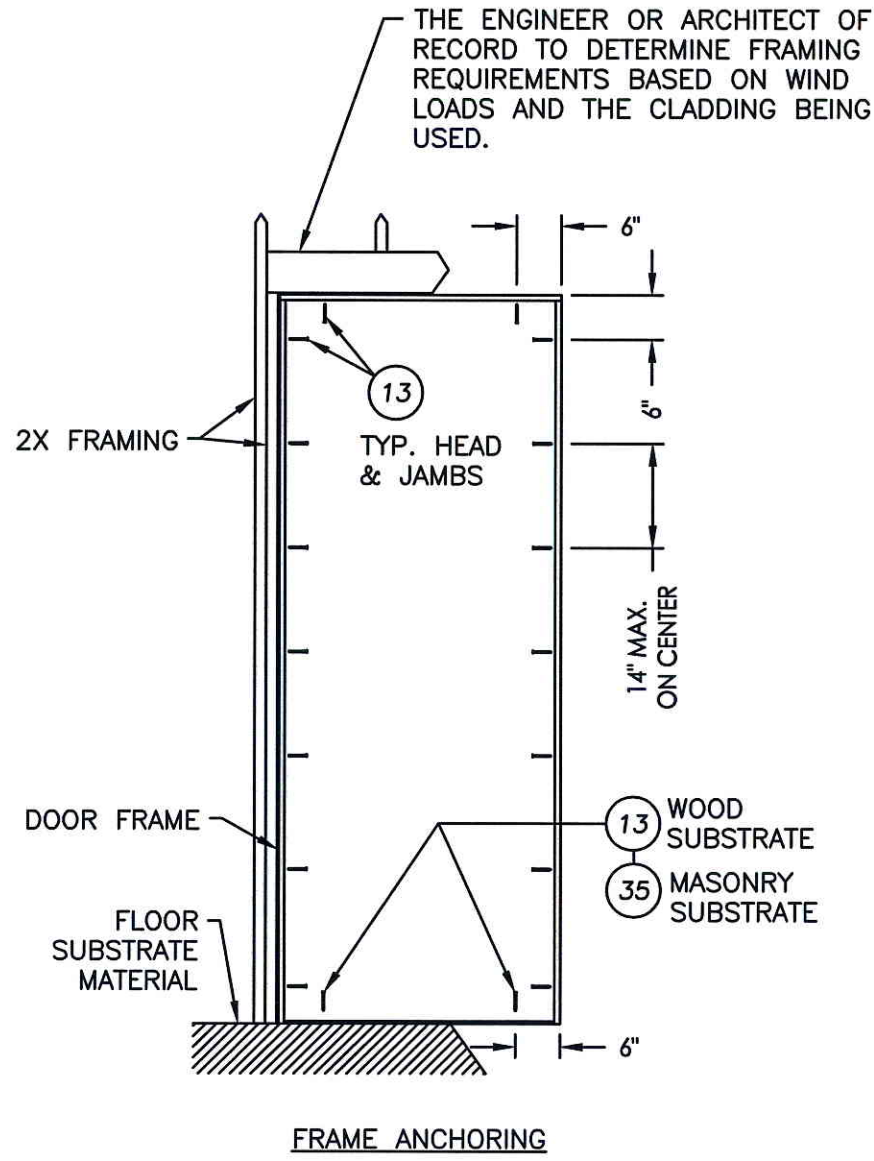


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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CERTIFICATE OF REGISTRATION # F-11852

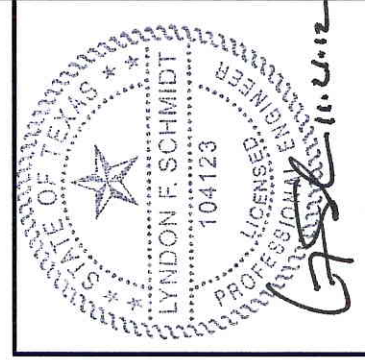
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| PART OR ASSEMBLY: | VERTICAL CROSS SECTIONS | |
| DATE: | 7/17/12 | |
| SCALE: | N.T.S. | |
| DWG. BY: | JK | |
| CHK. BY: | LFS | |
| DRAWING NO.: | TX-4195 | |
| SHEET | 6 | of 9 |
| NO. | DATE | REVISIONS |
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CONCRETE 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" |



Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DOOR
IN/OUTSWING IMPACT

PART OR ASSEMBLY: FRAME ANCHORING

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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DATE: 7/17/12

SCALE: N.T.S.

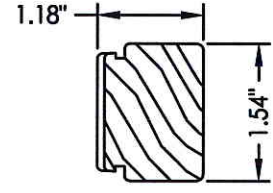
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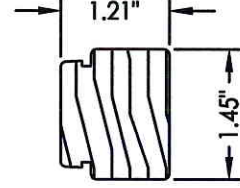
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SHEET 7 OF 9

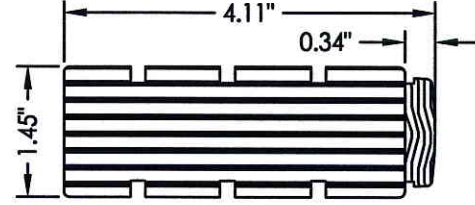
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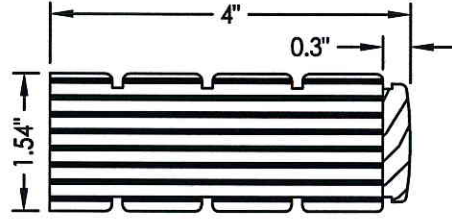
4 HINGE STILE
(SMOOTH STAR)



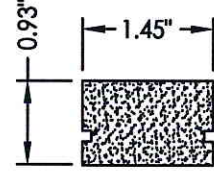
52 HINGE STILE
(FIBER CLASSIC)



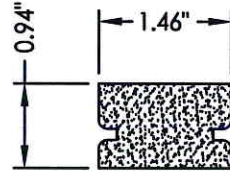
54 LOCK STILE
(FIBER CLASSIC)



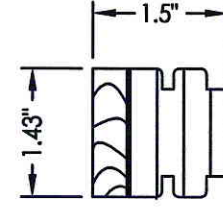
3 LATCH STILE
(SMOOTH STAR)



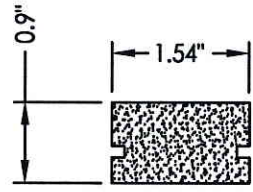
50 DOOR TOP RAIL
(FIBER CLASSIC)



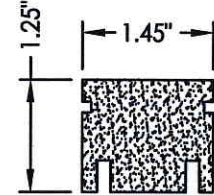
46 DOOR TOP RAIL
(CLASSIC CRAFT)
(& RUSTIC)



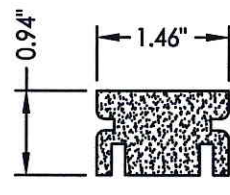
49 HINGE STILE
(CLASSIC CRAFT)
(& RUSTIC)



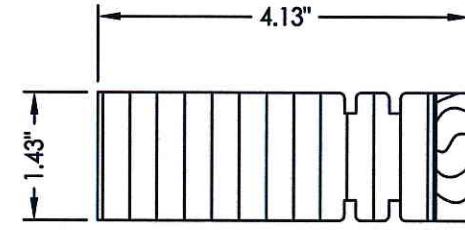
2 DOOR TOP RAIL
(SMOOTH STAR)



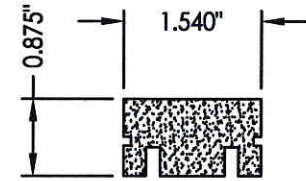
51 DOOR BOTTOM RAIL
(FIBER CLASSIC)



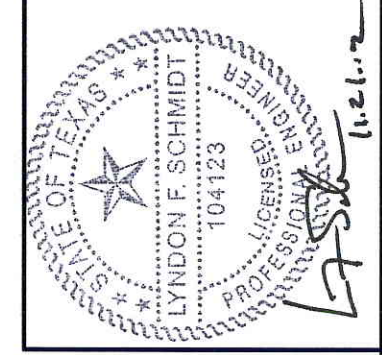
47 DOOR BOTTOM RAIL
(CLASSIC CRAFT)
(& RUSTIC)



48 LATCH STILE
(CLASSIC CRAFT)
(& RUSTIC)



5 BOTTOM RAIL DOOR
(SMOOTH STAR)



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

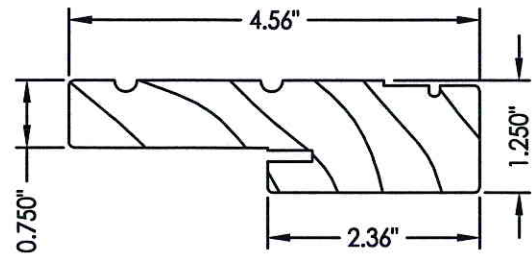
PRODUCT: THERMA-TRU
GLAZED FIBERGLASS DOOR
IN/OUTSWING IMPACT
PART OR ASSEMBLY:
COMPONENTS

| REVISIONS | |
|-----------|------|
| NO. | DATE |
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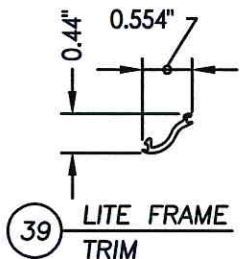
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4195
SHEET 8 OF 9

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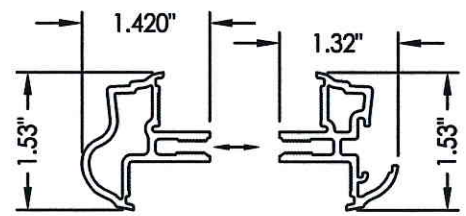
| Item | DESCRIPTION | Material |
|------|---|-------------|
| 1 | DOOR SKIN; SMOOTH STAR SERIES (.075" MIN.) | FIBERGLASS |
| 1A | DOOR SKIN; CLASSIC CRAFT & RUSTIC SERIES (.090" MIN.) | FIBERGLASS |
| 1B | DOOR SKIN; FIBER CLASSIC SERIES (.065" MIN.) | FIBERGLASS |
| 2 | TOP RAIL DOOR THERMA-TRU (SMOOTH STAR) | COMP. |
| 3 | LATCH STILE DOOR THERMA-TRU (SMOOTH STAR) | LVL |
| 4 | HINGE STILE / DOOR, STILE / SIDELITE THERMA-TRU (SMOOTH STAR) | WOOD |
| 5 | BOTTOM RAIL DOOR THERMA-TRU (SMOOTH STAR) | COMP. |
| 6 | POLYURETHANE FOAM (1.9lbs. DENSITY) | FOAM |
| 7 | MEDIUM REACH COMPRESSION WEATHER-STRIP (THERMA-TRU) | FOAM |
| 8 | LONG REACH COMPRESSION WEATHER-STRIP (THERMA-TRU) | FOAM |
| 9 | 4" x 4" HINGE .097" THK. (THERMA-TRU) | STEEL |
| 10 | #10 x 3/4" PFH WOOD SCREW (Hinge to Frame) | STEEL |
| 12 | #10 x 2" PFH WOOD SCREW | STEEL |
| 13 | #10 x 2-1/2" PFH WOOD SCREW | STEEL |
| 14 | 2X FRAMING (G>= 0.42) | WOOD |
| 16 | MAX. 1/4" SHIM MATERIAL | WOOD |
| 17 | LOCK - KWIKSET 200 SERIES | STEEL |
| 18 | THRESHOLD OUTSWING (THERMA-TRU) | ALUM./WOOD |
| 19 | HEADER JAMB (4.656" x 1.25" THERMA-TRU, PINE) | WOOD |
| 20 | SIDE JAMB (4.656" x 1.25" THERMA-TRU) (FJ PINE) | WOOD |
| 21 | DEADBOLT - KWIKSET 780 SERIES | STEEL |
| 22 | INTERIOR LITE FRAME | ALUM. |
| 23 | EXTERIOR LITE FRAME | ALUM. |
| 25 | SILICONE CAULK | SILICONE |
| 26 | CELLULAR GLAZING TAPE | FOAM |
| 27 | LATCH STRIKE | STEEL |
| 28 | #8 x 2-1/2" PFH WOOD SCREW | STEEL |
| 29 | #8 x 3" PFH SCREW | STEEL |
| 30 | 1" THK. INSUL. LAMINATED GLASS (INTERLAYER BY SOLUTIA) 1/8" TEMP.- AIR - 5/32" ANN. / .090" INTERLAYER / 1/8" ANN. | GLASS |
| 31 | OUTSWING THRESHOLD COASTAL | ALUM./WOOD |
| 32 | DOOR BOTTOM SWEEP (INSWING) | PVC |
| 32A | DOOR BOTTOM SWEEP (INSWING) | PVC |
| 33 | INSWING THRESHOLD HPA | ALUM./COMP. |
| 35 | 1/4" ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.) | STEEL |
| 39 | LITE FRAME TRIM | PVC |
| 40 | #9 x 3" PFH WOOD SCREW | STEEL |
| 46 | TOP RAIL (CLASSIC CRAFT & RUSTIC) | COMP. |
| 47 | BOTTOM RAIL (CLASSIC CRAFT & RUSTIC) | COMP. |
| 48 | LATCH SIDE STILE (CLASSIC CRAFT & RUSTIC) | LSL / OAK |
| 49 | HINGE SIDE STILE (CLASSIC CRAFT & RUSTIC) | LSL / OAK |
| 50 | TOP RAIL (FIBER CLASSIC) | COMP. |
| 51 | BOTTOM RAIL (FIBER CLASSIC) | COMP. |
| 52 | HINGE SIDE STILE (FIBER CLASSIC) | WOOD |
| 54 | LATCH SIDE STILE (FIBER CLASSIC) | LVL / OAK |
| 65 | INSWING THRESHOLD SELF ADJUSTING | ALUM./COMP. |
| 66 | INSWING THRESHOLD IMPERIAL | ALUM./COMP. |
| 67 | DEAD BOLT STRIKE PLATE | STEEL |



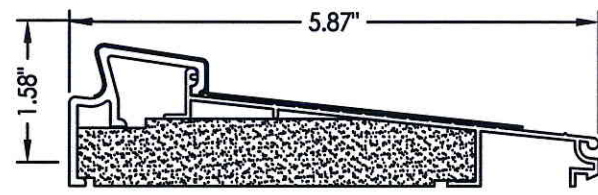
19 20 HEAD & SIDE JAMB



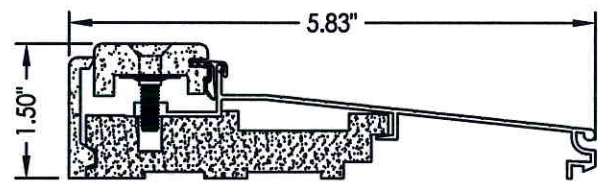
39 LITE FRAME TRIM



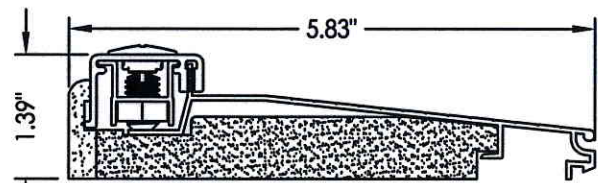
23 EXT. LITE FRAME 22 INT. LITE FRAME



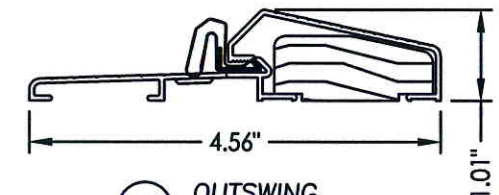
65 INSWING SELF ADJUST THRESHOLD



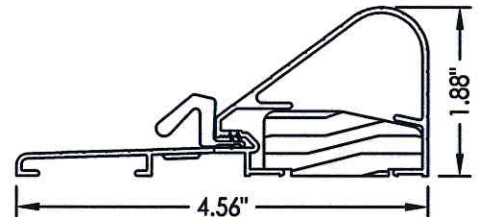
66 INSWING IMPERIAL THRESHOLD



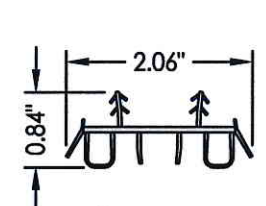
33 INSWING HPA THRESHOLD



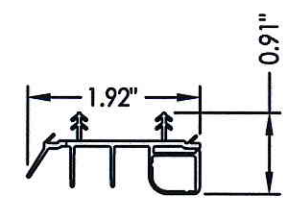
18 OUTSWING THRESHOLD



31 OUTSWING COASTAL THRESHOLD



32A SWEEP



32 SWEEP



Documents Prepared By: Lyndon F. Schmidt, P.E.
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TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: THERMA-TRU GLAZED FIBERGLASS DOOR IN/OUTSWING IMPACT
PART OR ASSEMBLY:

BILL OF MATERIAL & COMPONENTS

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
| | | | |
| | | | |
| | | | |

DATE: 7/17/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4195
SHEET 9 OF 9