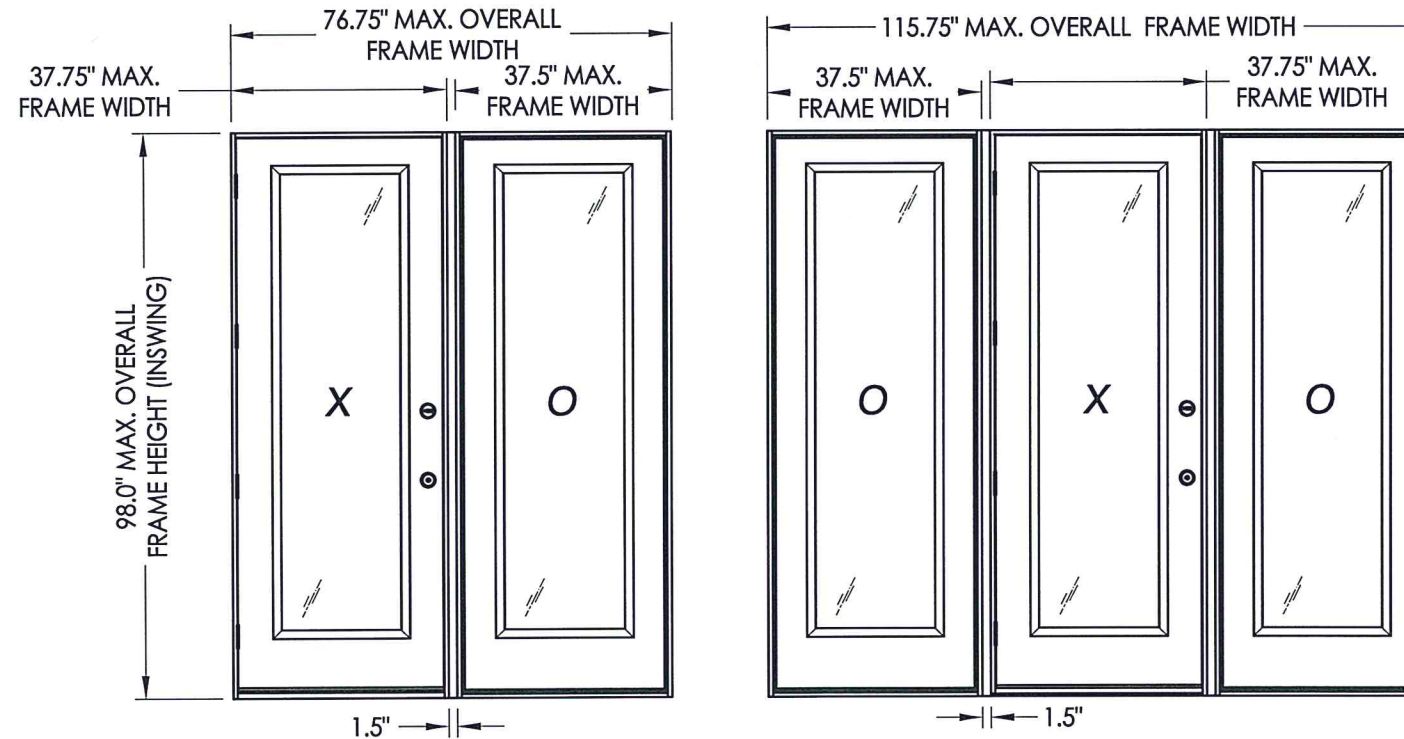
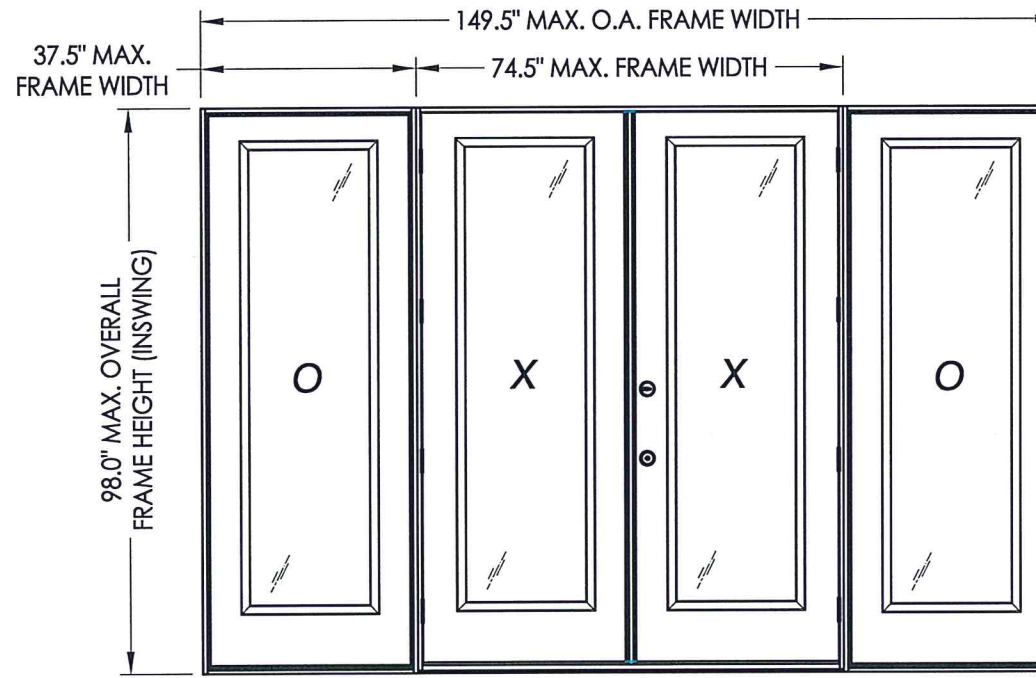




215 EAST ROOSEVELT AVE.
ZEELAND, MI 49464

FIBERGLASS ENTRY DOOR INSWING "IMPACT"



EVALUATED FOR USE IN THE STATE OF TEXAS

TDI DR-692

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.

TABLE OF CONTENTS

| SHEET # | DESCRIPTION |
|---------|--|
| 1 | Typical elevations, design pressures & general notes |
| 2 | Door/Sidelite panel details |
| 3 | Lite frame and glazing details |
| 4 | Elevations & hardware table |
| 5 | Horizontal cross sections |
| 6 | Vertical cross sections |
| 7 | Frame anchoring |
| 8 | Astragal details |
| 9 | Bill of materials & components |

| CONFIGURATION | MAX. FRAME DIMENSION | DESIGN PRESSURE (PSF) INSWING | |
|---------------|----------------------|-------------------------------|----------|
| | | POSITIVE | NEGATIVE |
| OX/XO | 76.75" x 98.0" | +35.0 | -40.0 |
| OXO | 115.75" x 98.0" | +35.0 | -40.0 |
| OXXO | 149.5" x 98.0" | +35.0 | -40.0 |



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

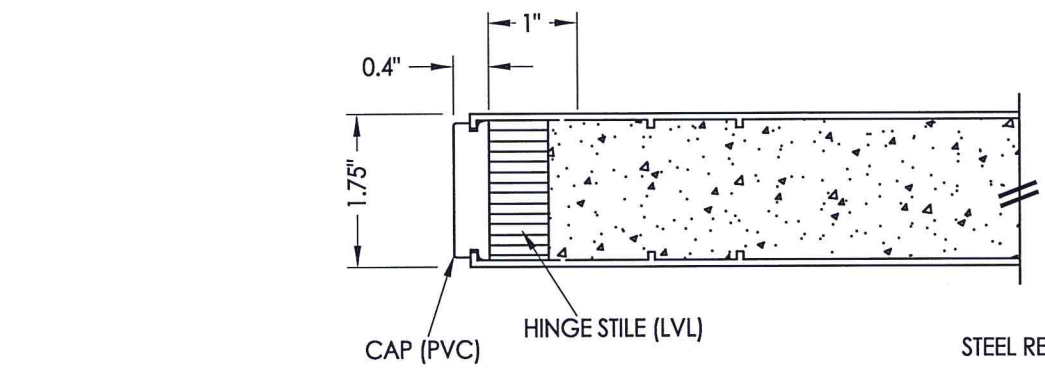
RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11862

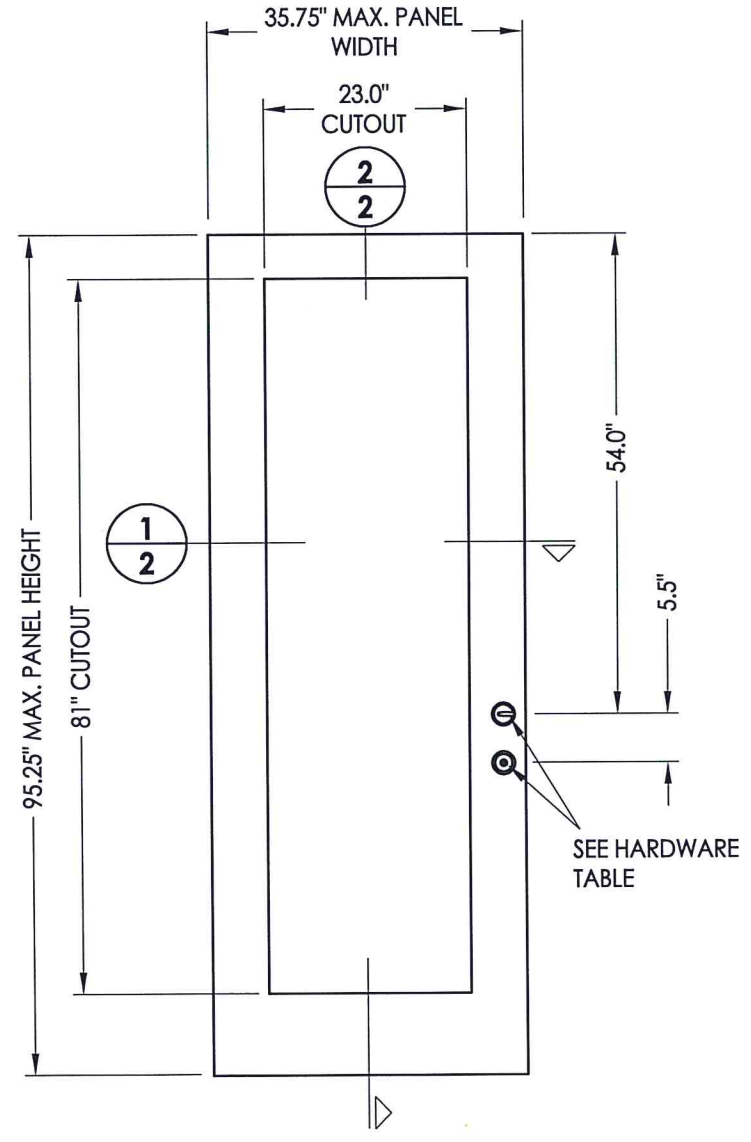
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IRC/IBC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |

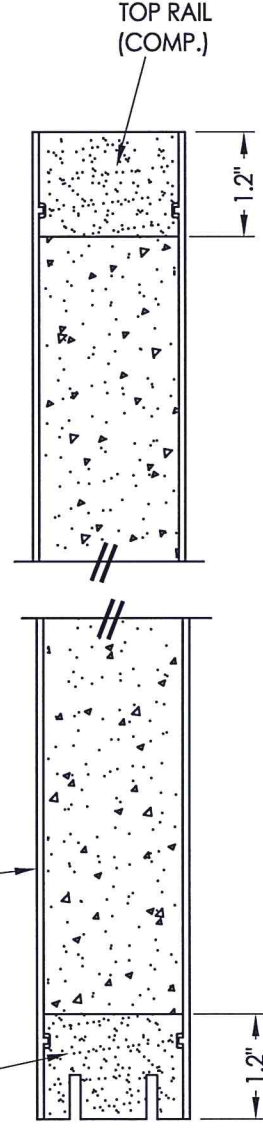
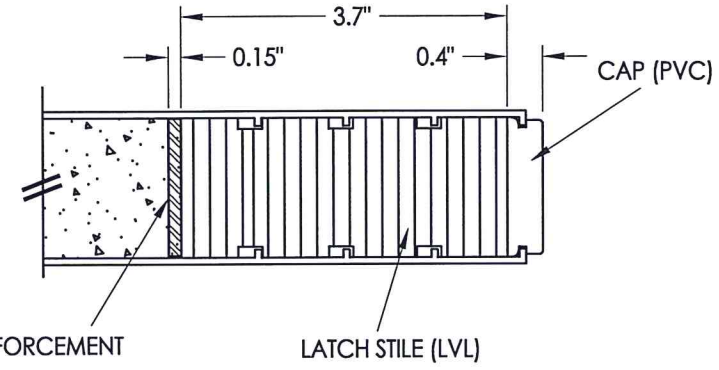
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 1 OF 9



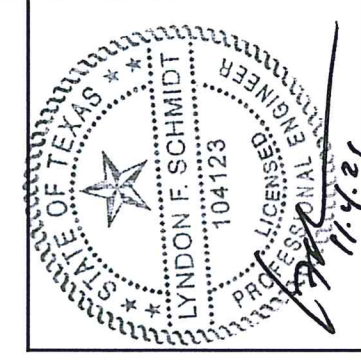
1
2 HORIZONTAL CROSS SECTION



40 DOOR PANEL
Plastpro



2
2 VERTICAL CROSS SECTION



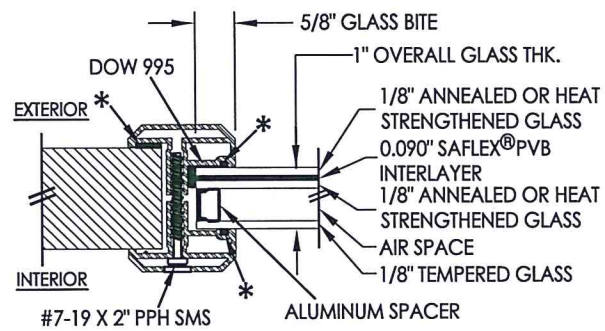
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

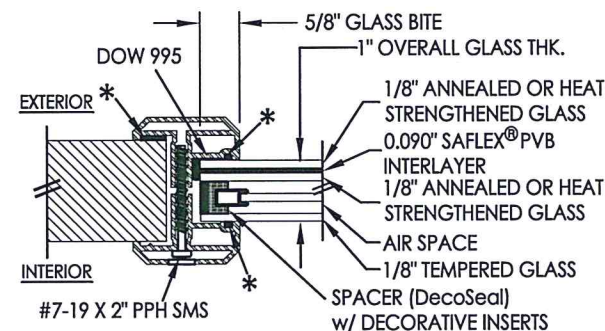
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CERTIFICATE OF REGISTRATION # F-11852

| | | | |
|-------------------|----------|-----------------------------|-----------------------------|
| PRODUCT: | | FIBERGLASS DOOR | |
| PART OR ASSEMBLY: | | DOOR/SIDELITE PANEL DETAILS | |
| NO. | DATE | BY | REVISIONS |
| 3 | 10/26/21 | LFS | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | LFS | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | JK | ADD H.S. GLAZING OPTION |

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 2 OF 9

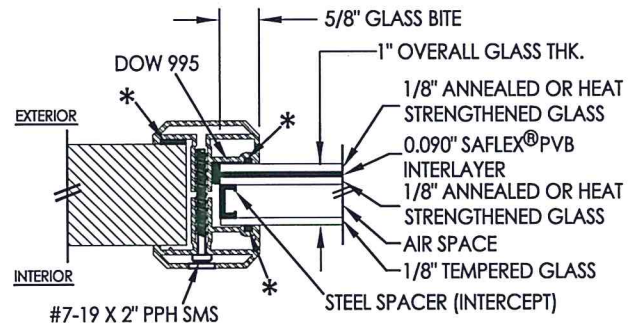


G1 GLAZING DETAIL
Flat Frame Profile

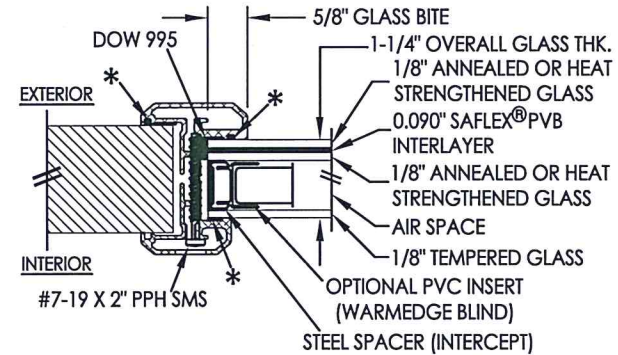


G3 GLAZING DETAIL
Flat Frame Profile

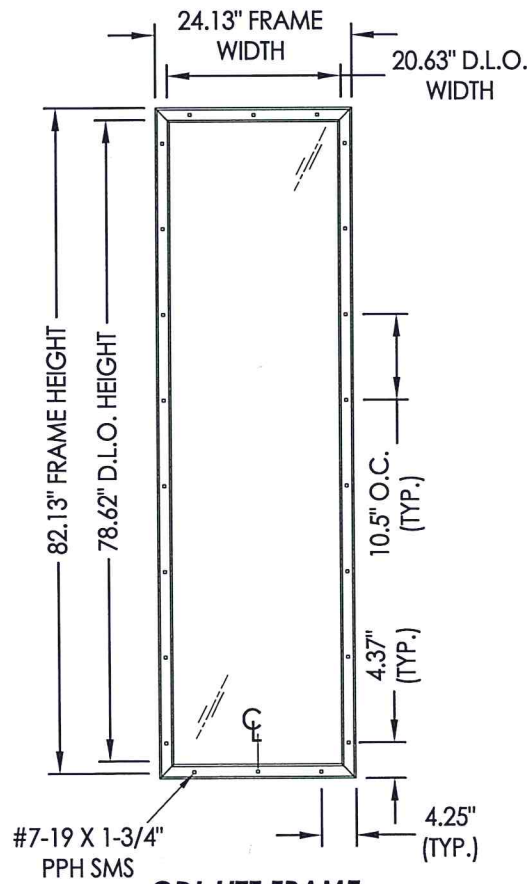
* NON-STRUCTURAL
BACKBEDDING
(READI-SEAL)



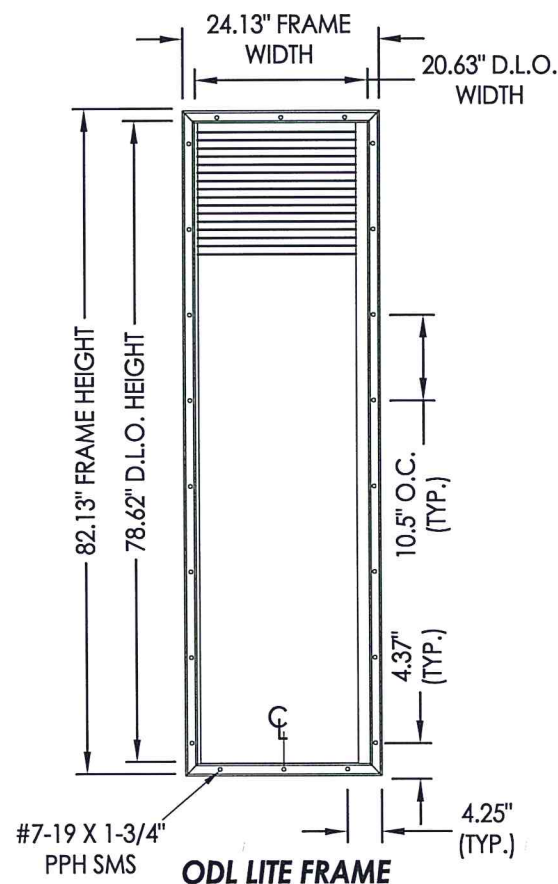
G2 GLAZING DETAIL
Flat Frame Profile



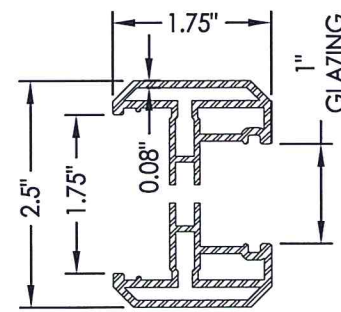
G4 GLAZING DETAIL
Flat Frame Profile
w/ Blinds Between Glass



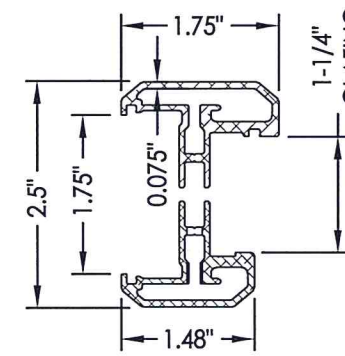
ODL LITE FRAME
"Flat Frame" Aluminum



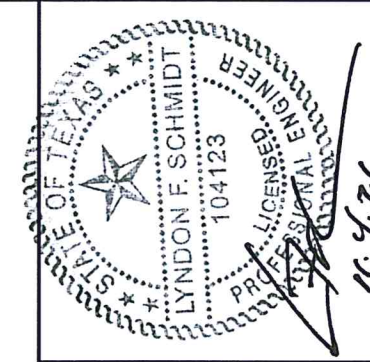
ODL LITE FRAME
"Flat Frame" Aluminum
w/ Blinds Between Glass



ODL LITE FLAT FRAME
1" GLAZING



ODL LITE FLAT FRAME
1-1/4" GLAZING



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Phone No.: 813.659.9197

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

PRODUCT: FIBERGLASS DOOR

PART OR ASSEMBLY:
LITE FRAME &
GLAZING DETAILS

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |
| | | |
| | | |

DATE: 6/13/13

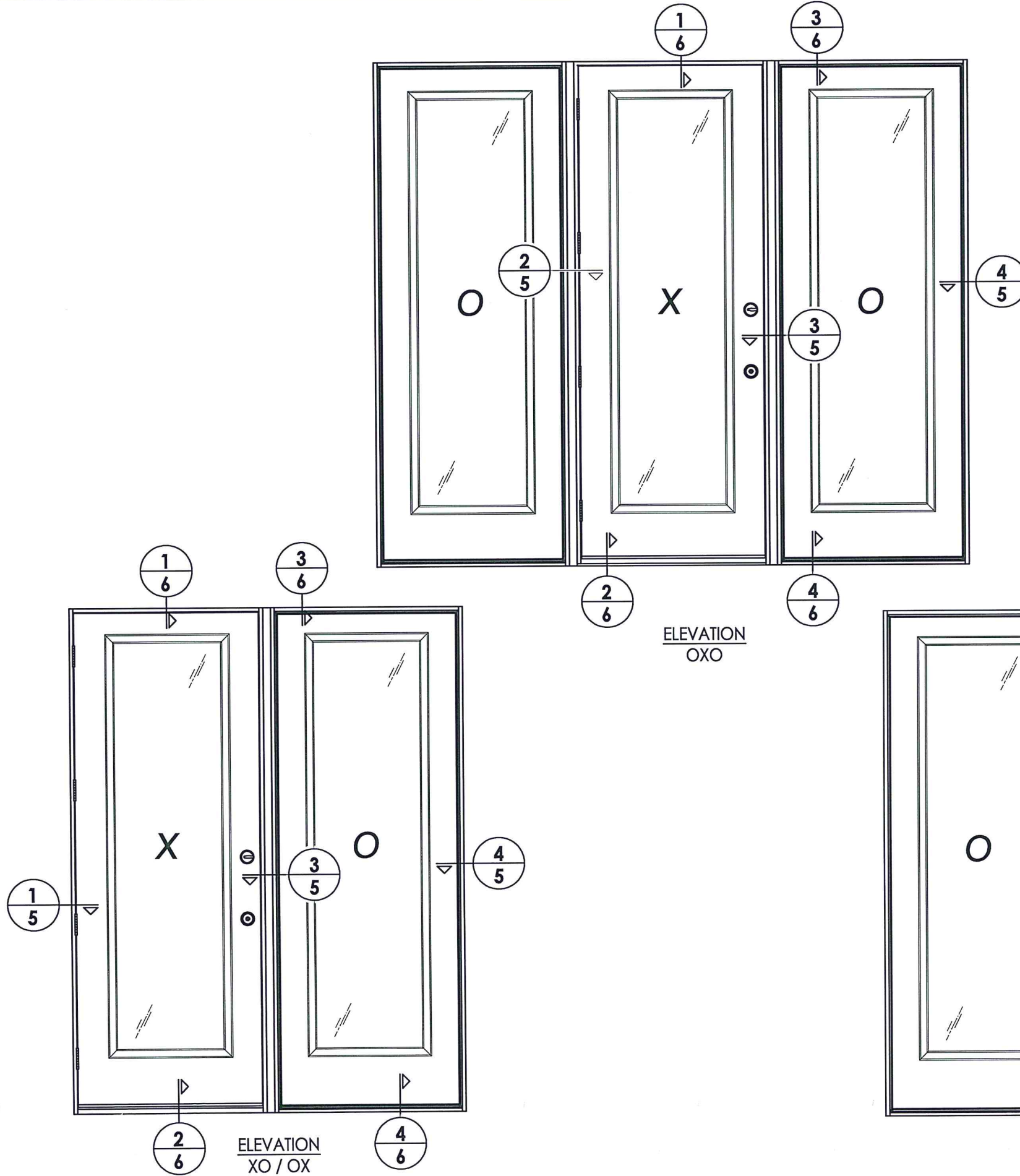
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4377

SHEET 3 OF 9



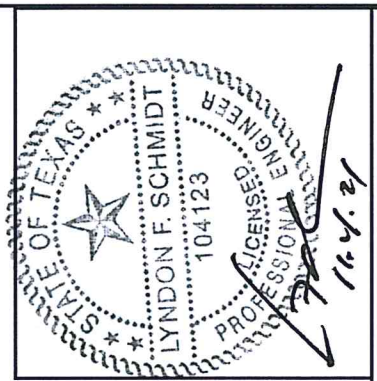
ELEVATION
OXO

ELEVATION
XO / OX

ELEVATION
OXXO

| HARDWARE TABLE | | |
|----------------|-----------|------------------------|
| MANUFACTURER | MODEL | |
| KWIKSET | KNOB: | SIGNATURE SERIES |
| | DEADBOLT: | SIGNATURE SERIES (980) |
| SCHLAGE | KNOB: | "F" SERIES (F60) |
| | DEADBOLT: | "B" SERIES (B60/62) |
| PAMEX* | KNOB: | "FT" SERIES |
| | DEADBOLT: | "FD7" SERIES |

*MAX. DESIGN PRESSURE FOR PAMEX LOCK
INSWING = +30/-30 PSF



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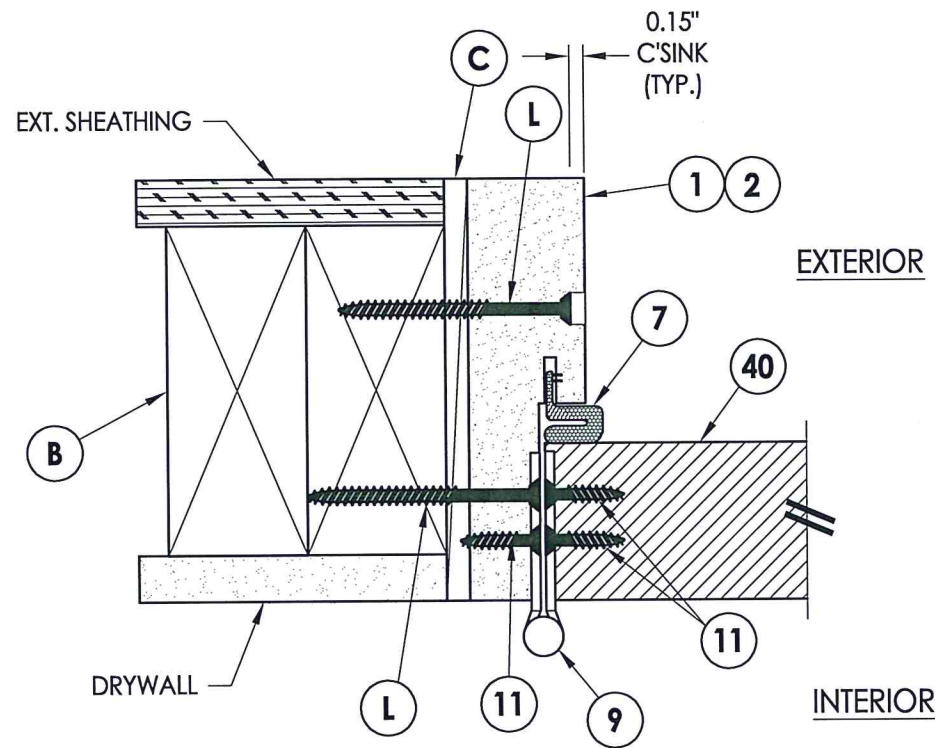
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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

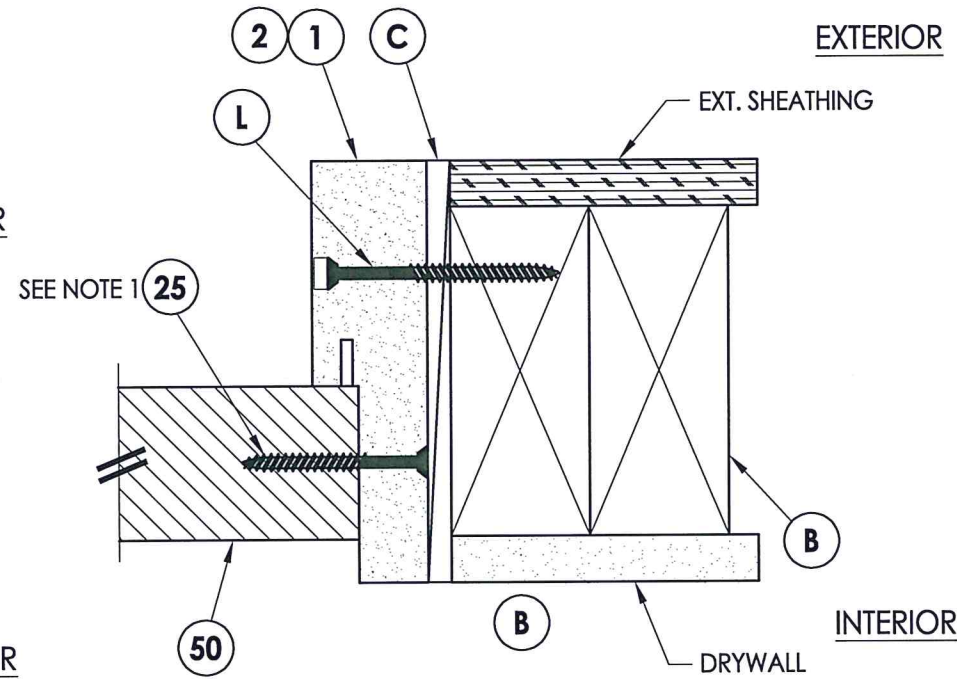
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: ELEVATIONS & HARDWARE TABLE

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |

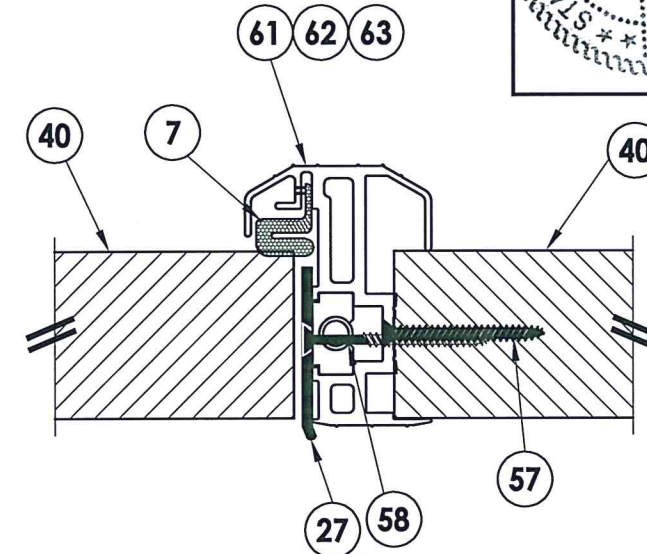
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 4 OF 9



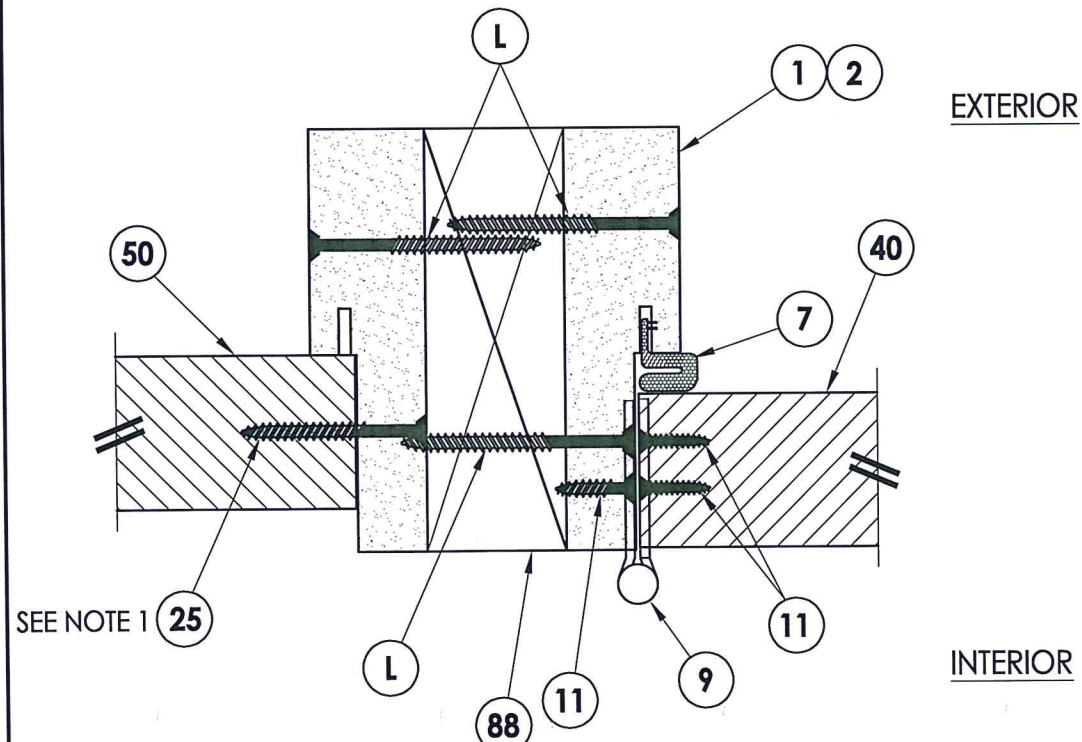
1
5 HORIZONTAL CROSS SECTION



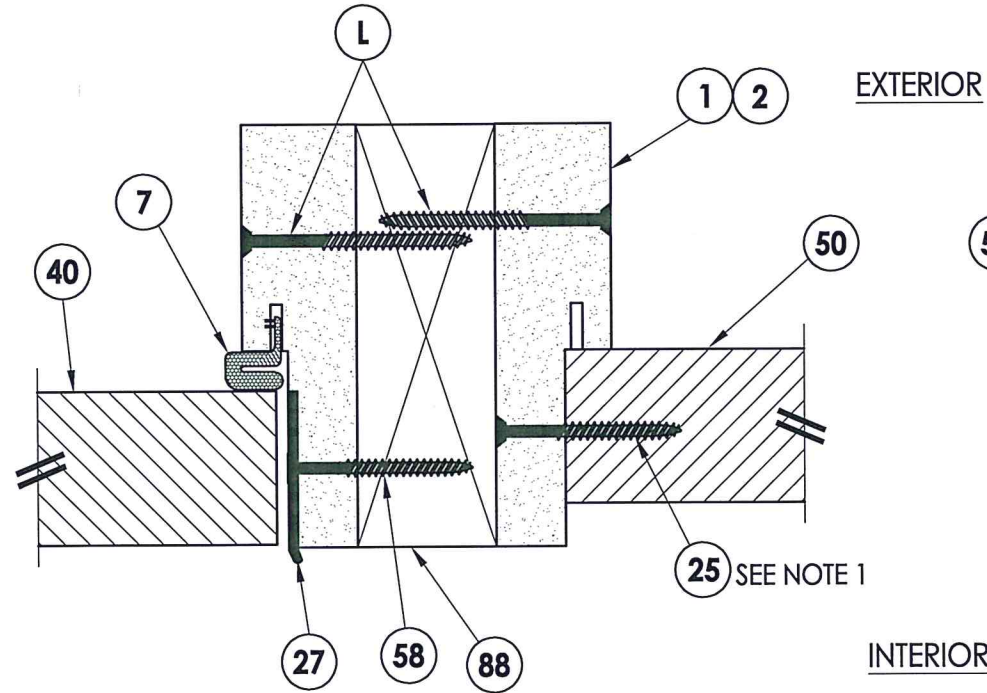
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5 HORIZONTAL CROSS SECTION



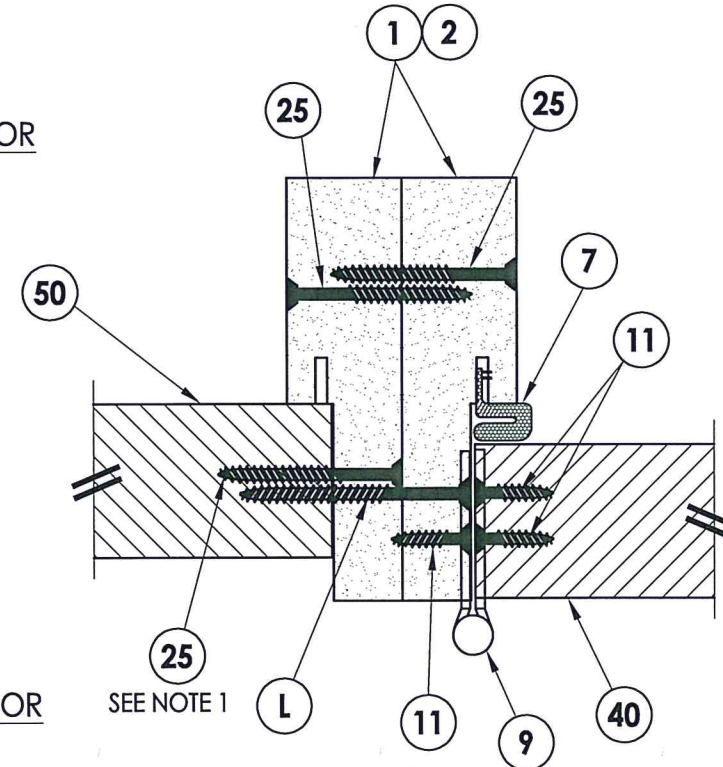
6
5 HORIZONTAL CROSS SECTION



2
5 HORIZONTAL CROSS SECTION

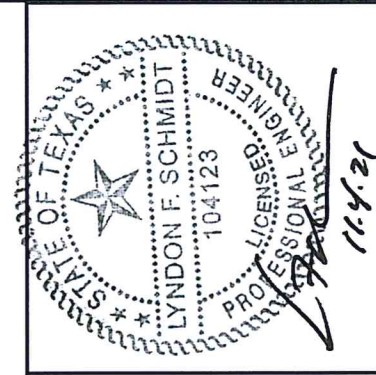


3
5 HORIZONTAL CROSS SECTION



5
5 HORIZONTAL CROSS SECTION

NOTE:
1. Sidelite panel screws located 6" from each end plus 5 more equally spaced (7 screws total).



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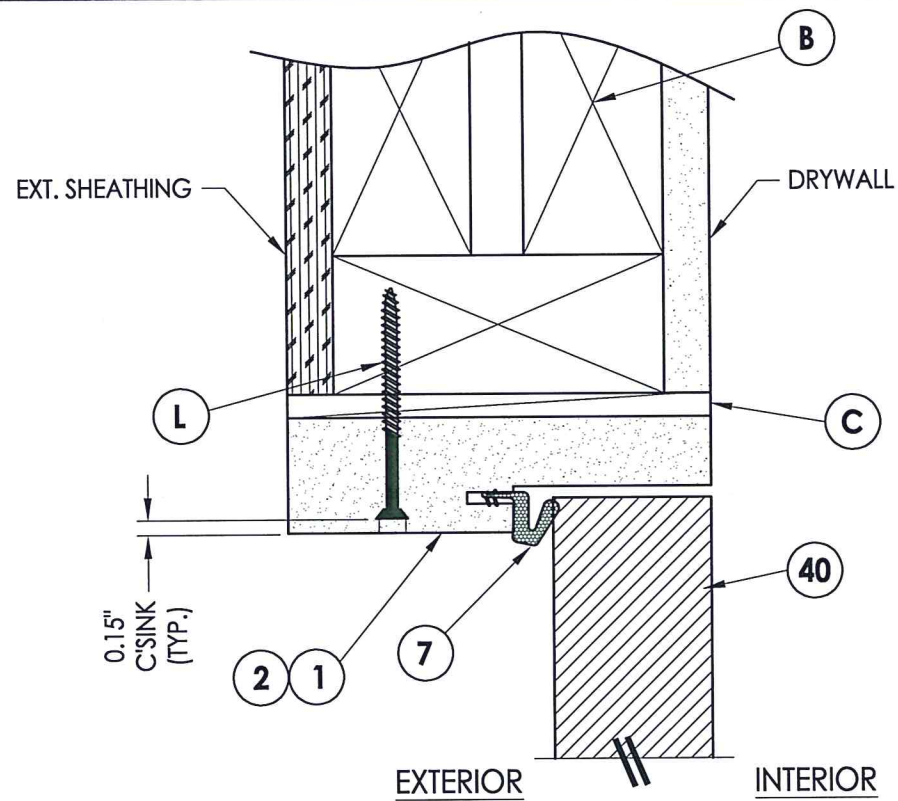
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Phone No.: 813.659.9197

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CERTIFICATE OF REGISTRATION # F-11852

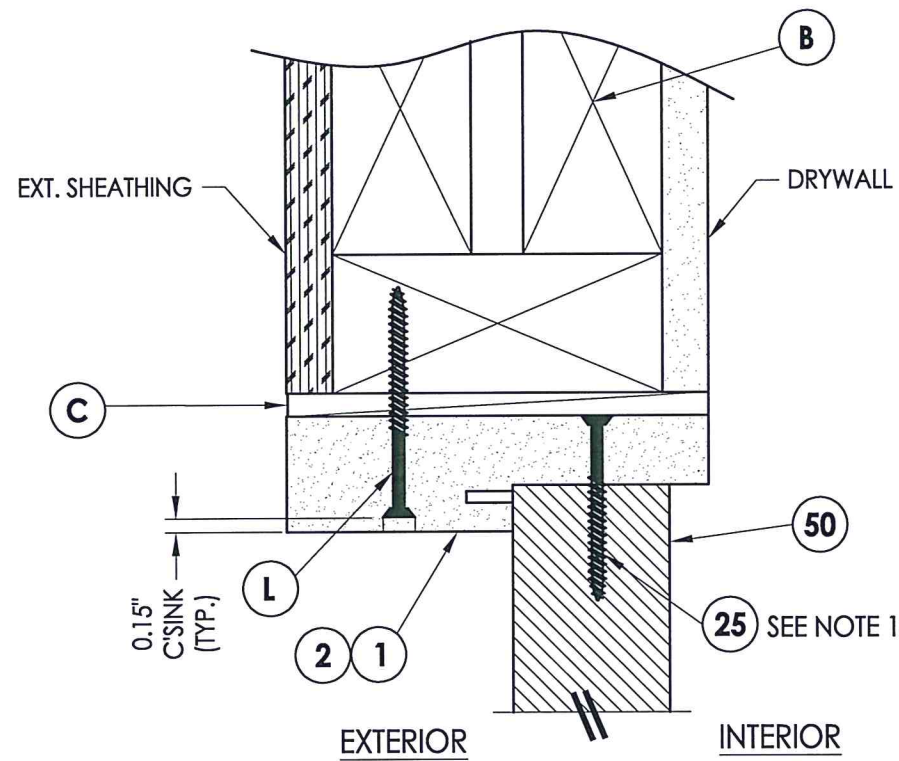
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |

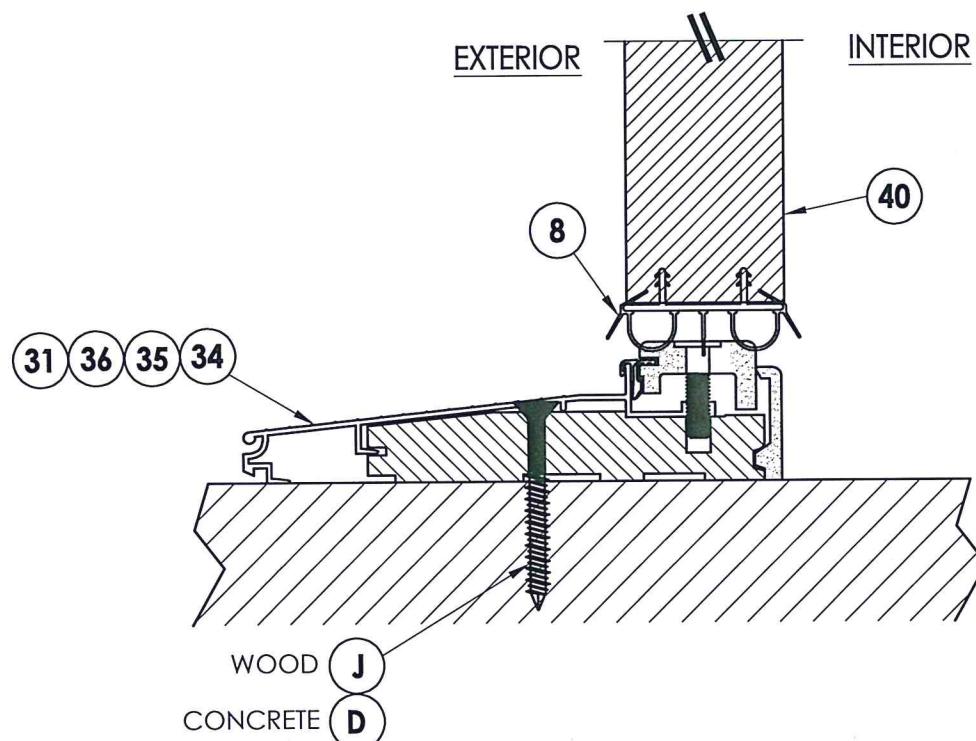
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 5 OF 9



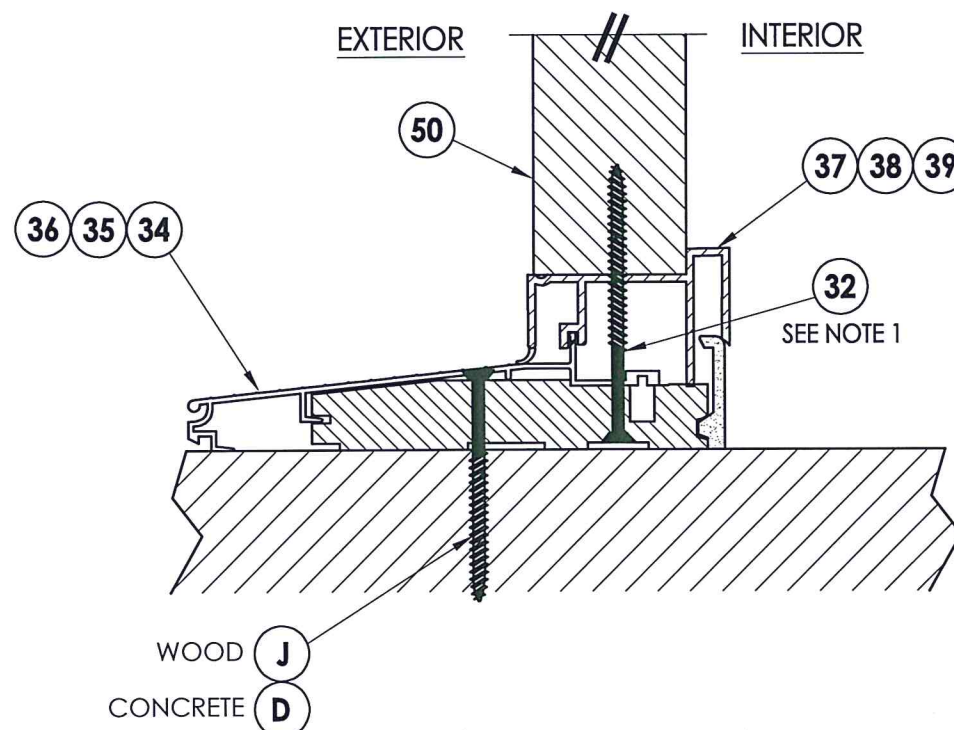
1
6 VERTICAL CROSS SECTION



3
6 VERTICAL CROSS SECTION

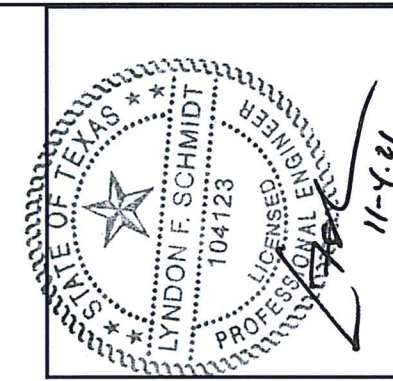


2
6 VERTICAL CROSS SECTION



4
6 VERTICAL CROSS SECTION

NOTE:
1. Sidelite panel screws located 6" from each end (2 Total).



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

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Phone No.: 813.659.9197

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

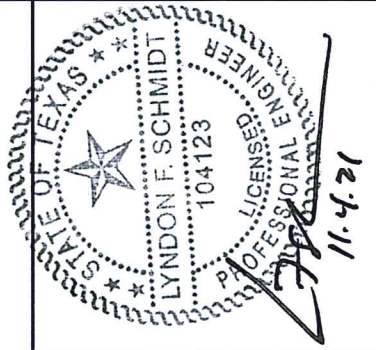
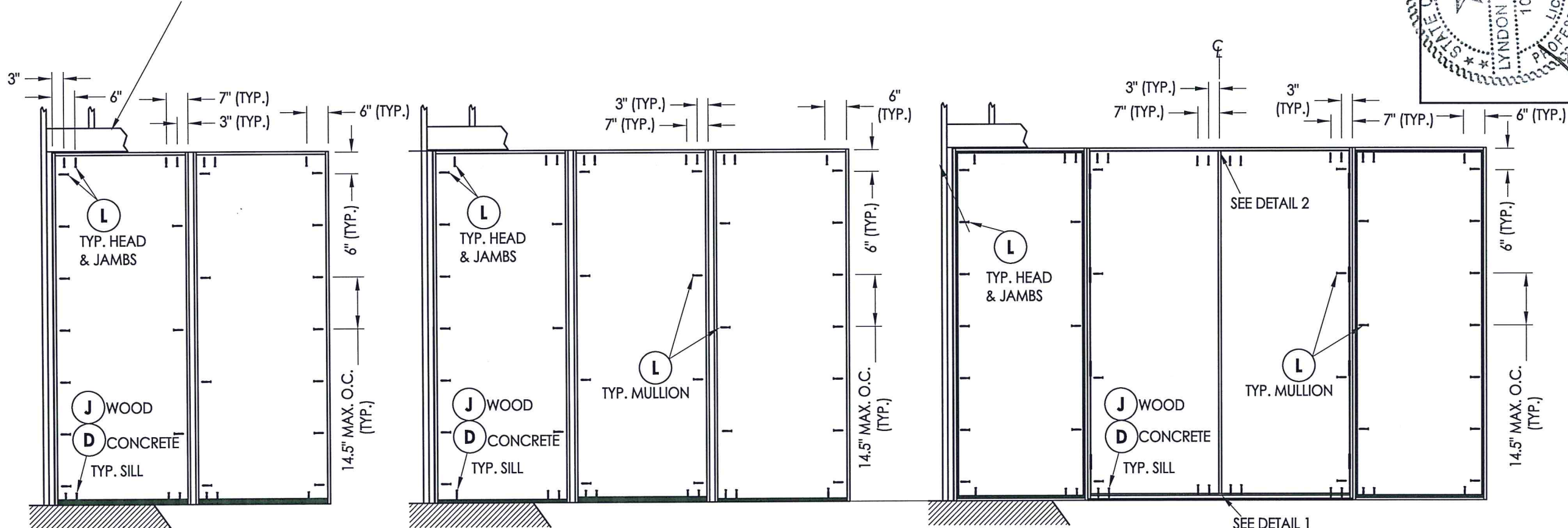
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|-------------------|-------------------------|
| PRODUCT: | FIBERGLASS DOOR |
| PART OR ASSEMBLY: | VERTICAL CROSS SECTIONS |

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |

| | |
|--------------|---------|
| DATE: | 6/13/13 |
| SCALE: | N.T.S. |
| DWG. BY: | JK |
| CHK. BY: | LFS |
| DRAWING NO.: | TX-4377 |
| SHEET | 6 OF 9 |

Z:\Clients\ODL, Inc. PERMANENT\B - Texas Dept of Ins\TDI - 692\Drawings\TX-4376-77.dwg

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



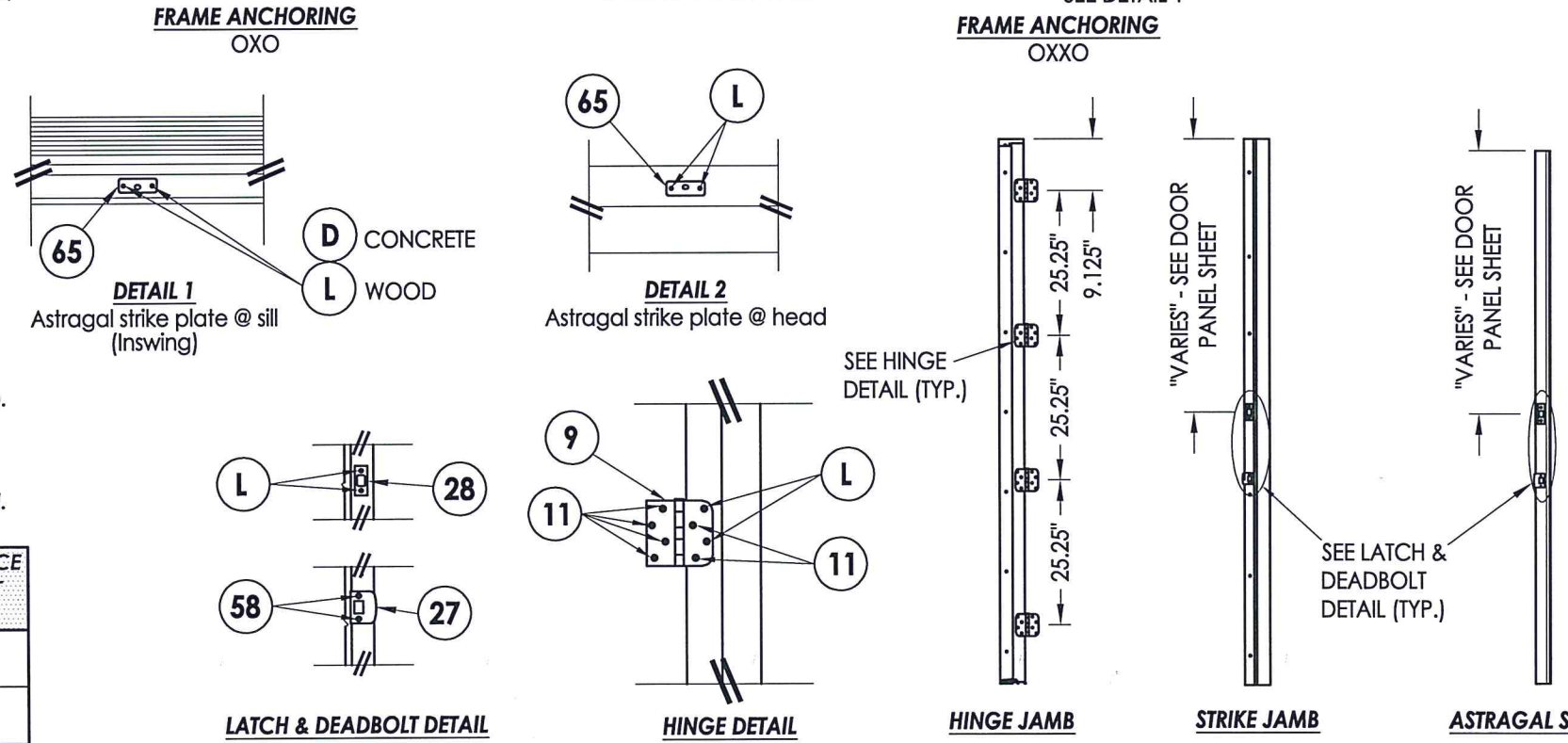
Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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

FRAME ANCHORING
XO (shown)
OX (similar)

FLOOR SUBSTRATE MATERIAL (TYP.)
CONCRETE (MIN. 3000 PSI)
WOOD ($G \geq 0.42$)



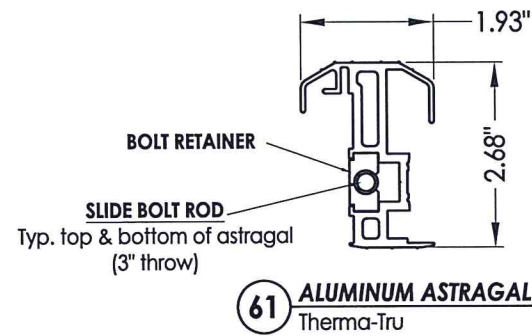
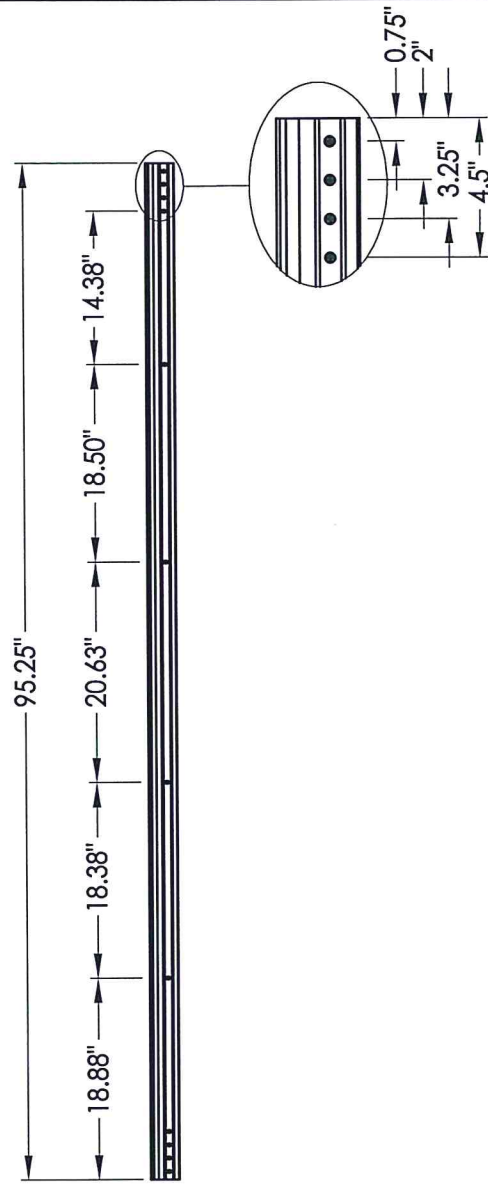
- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
 - Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required 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® | 1/4" | 1-3/4" | 1-1/2" | 4" |
| DeWALT ULTRACON® | 1/4" | 1-3/4" | 1" | 3" |

| | | |
|-------------------|-----------------|-----|
| PRODUCT: | FIBERGLASS DOOR | |
| PART OR ASSEMBLY: | FRAME ANCHORING | |
| NO. | DATE | BY |
| 3 | 10/26/21 | LFS |
| 2 | 5/31/18 | LFS |
| 1 | 12/14/15 | JK |
| REVISIONS | | |
| DATE: | 6/13/13 | |
| SCALE: | N.T.S. | |
| DWG. BY: | JK | |
| CHK. BY: | LFS | |
| DRAWING NO.: | TX-4377 | |
| SHEET | 7 OF 9 | |

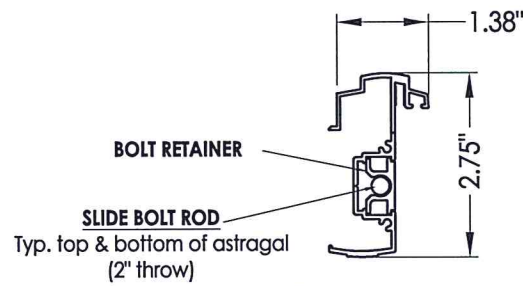
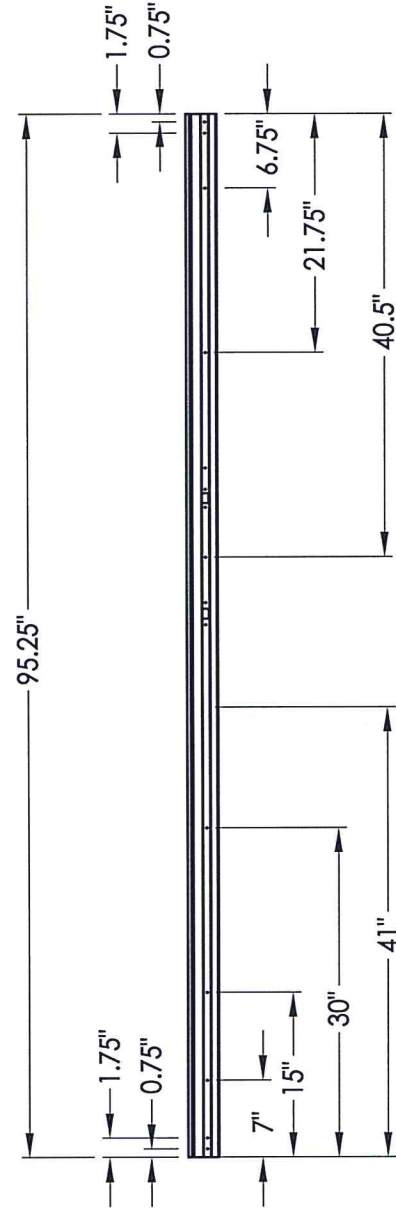
© 2013 R.W. BUILDING CONSULTANTS INC.

ASTRAGAL SCREW LOCATIONS



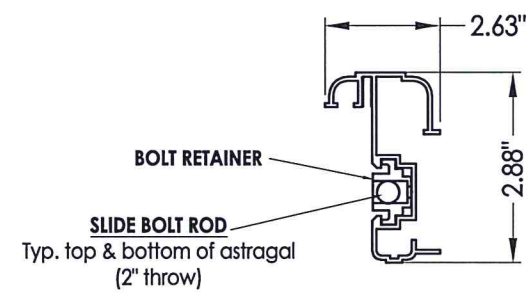
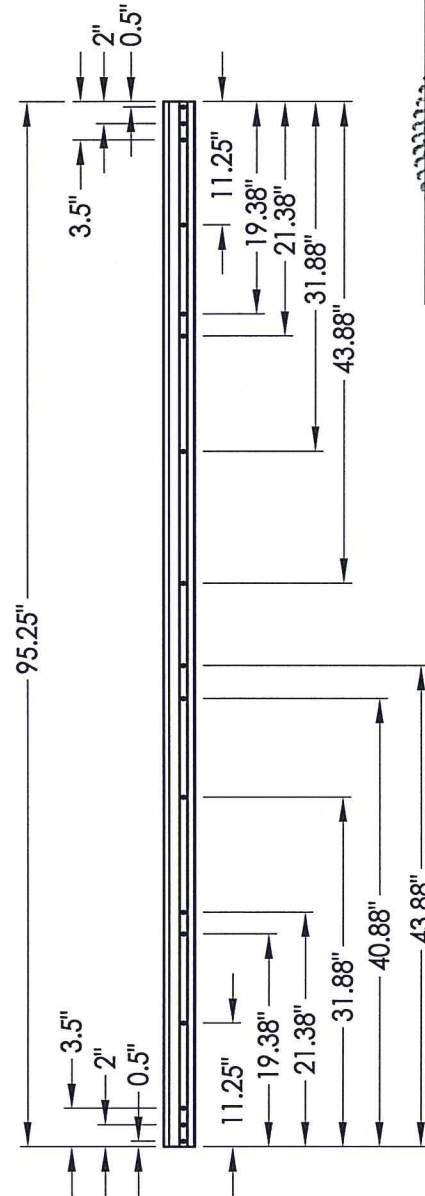
61 ALUMINUM ASTRAGAL
Therma-Tru
8'0 ALUMINUM ASTRAGAL ASSEMBLY
Therma-Tru

ASTRAGAL SCREW LOCATIONS



62 ASTRAGAL
Columbia
8'0 ALUMINUM ASTRAGAL ASSEMBLY
Columbia

ASTRAGAL SCREW LOCATIONS



63 ASTRAGAL
DLP
8'0 ALUMINUM ASTRAGAL ASSEMBLY
DLP



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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Vairico FL 33595
Phone No.: 813.659.9197

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

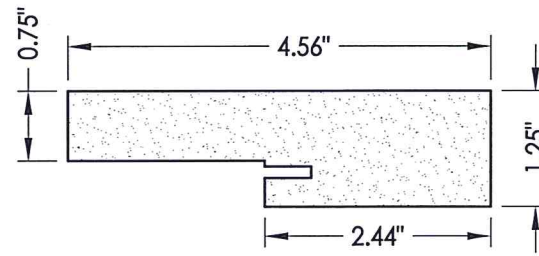
PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: ASTRAGAL DETAILS

| REVISIONS | |
|-----------|-------------------------------------|
| NO. | DATE |
| 3 | 10/26/21 UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 ADD H.S. GLAZING OPTION |
| | DATE |
| | BY |
| | JK |
| | LFS |

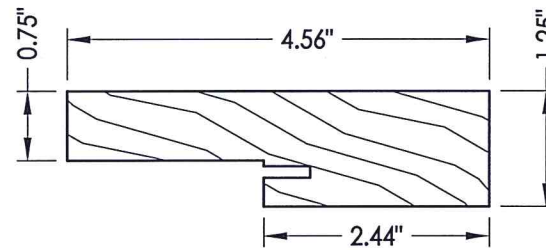
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 8 OF 9

Z:\Clients\ODL, Inc. PERMANENT\B - Texas Dept of Ins\YDI - 692\Drawings\TX-4376-77.dwg

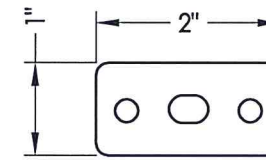
| BILL OF MATERIALS | | |
|-------------------|--|-----------|
| ITEM # | DESCRIPTION | MATERIAL |
| B | 2X FRAMING (G >= 0.42) | WOOD |
| C | 1/4" MAX. SHIM SPACE | - |
| D | 1/4" PFH DeWALT OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.) | STEEL |
| J | #10 X 3" PFH WOOD SCREW (1-1/2" MIN. EMB.) | STEEL |
| L | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.) | STEEL |
| 1 | HEAD & JAMB | COMP |
| 2 | HEAD & JAMB | WOOD |
| 7 | WEATHERSTRIP | FOAM |
| 8 | DOOR BOTTOM SWEEP | VINYL |
| 9 | 4" X 4" HINGE | STEEL |
| 11 | #9 X 3/4" PFH WOOD SCREW | STEEL |
| 24 | #10 X 1-1/2" PFH WOOD SCREW | STEEL |
| 25 | #10 X 2" PFH WOOD SCREW | STEEL |
| 27 | LATCH STRIKE PLATE | STEEL |
| 28 | DEADBOLT STRIKE PLATE | STEEL |
| 31 | ADA THRESHOLD | ALUM |
| 34 | INSWING THRESHOLD | ALUM/COMP |
| 35 | INSWING THRESHOLD | ALUM/COMP |
| 36 | INSWING THRESHOLD | ALUM/COMP |
| 37 | INSWING SIDELITE SEAT | PVC |
| 38 | INSWING SIDELITE SEAT | PVC |
| 39 | INSWING SIDELITE SEAT | PVC |
| 40 | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR DETAILS | - |
| 50 | SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR DETAILS | - |
| 57 | #8 X 2" PFH SMS | STEEL |
| 58 | #8 X 2-1/2" PFH WOOD SCREW | STEEL |
| 61 | ASTRAGAL (THERMA-TRU) | ALUM |
| 62 | ASTRAGAL (COLUMBIA) | ALUM |
| 64 | ASTRAGAL (DLP) | ALUM |
| 65 | ASTRAGAL STRIKE PLATE | STEEL |



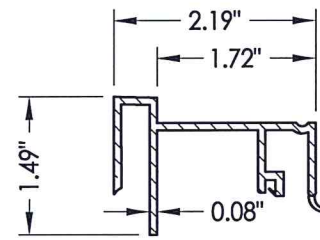
1 HEAD & JAMB
Composite



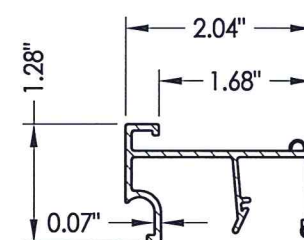
2 HEAD & JAMB
Finger joint pine



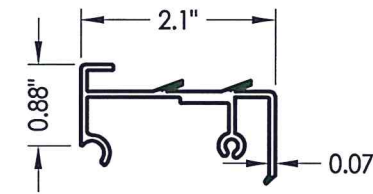
65 HEAD & SILL STRIKE PLATE



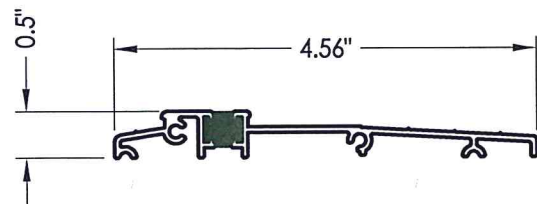
37 INSWING SIDELITE SEAT
Therma-Tru



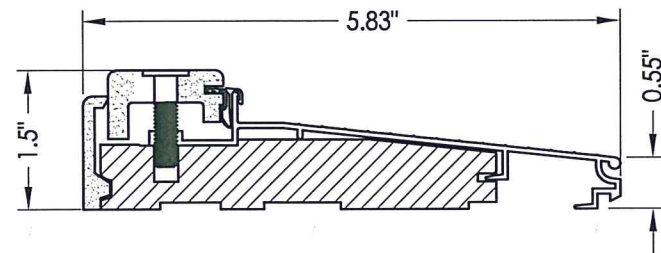
38 INSWING SIDELITE SEAT
Endura 60 SERIES



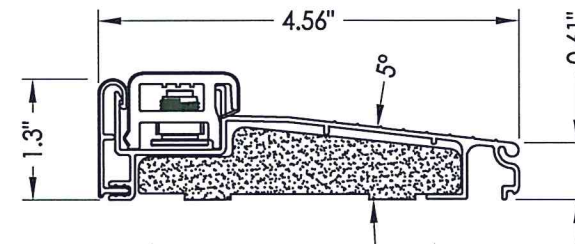
39 INSWING SIDELITE SEAT
Columbia



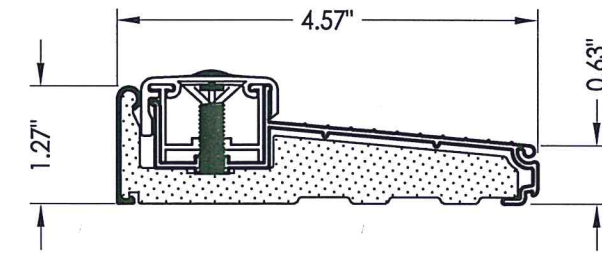
31 ADA THRESHOLD
Columbia



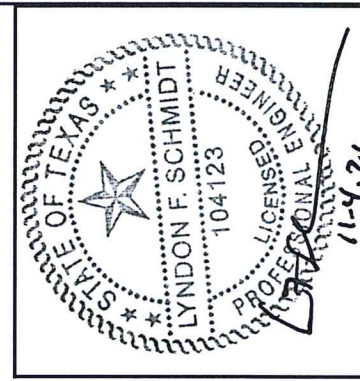
34 INSWING THRESHOLD
Therma-Tru



35 INSWING THRESHOLD
Endura ZAIL 4565
with Composite Substrate



36 INSWING THRESHOLD
Columbia 900 Series



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PRODUCT: FIBERGLASS DOOR
PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

| NO. | DATE | REVISIONS |
|-----|----------|-----------------------------|
| 3 | 10/26/21 | UPDATE TO 2018 IBC/IRC |
| 2 | 5/31/18 | ADD FLAT FRAME LITE PROFILE |
| 1 | 12/14/15 | ADD H.S. GLAZING OPTION |

DATE: 6/13/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4377
SHEET 9 OF 9