

GLAZED FIBERGLASS SINGLE DOOR w/ SIDELITE(S)

OUTSWING
"IMPACT"

EVALUATED FOR USE IN THE STATE OF TEXAS

DR-273

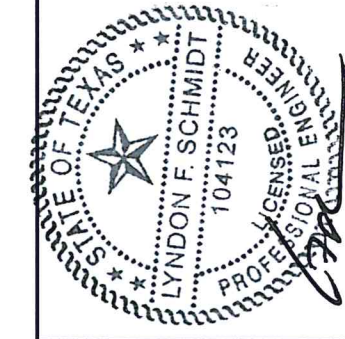
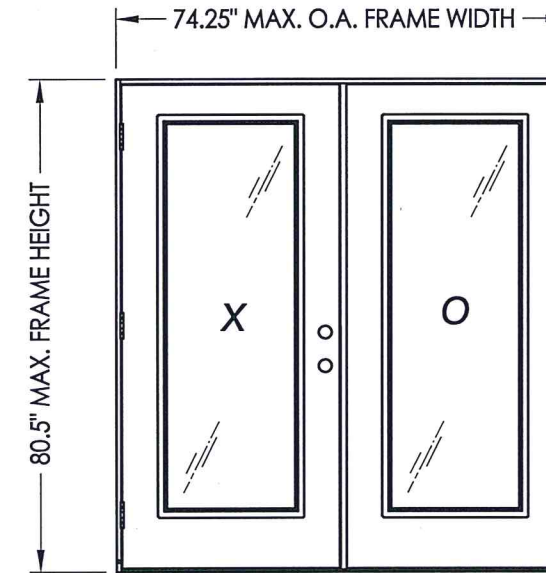
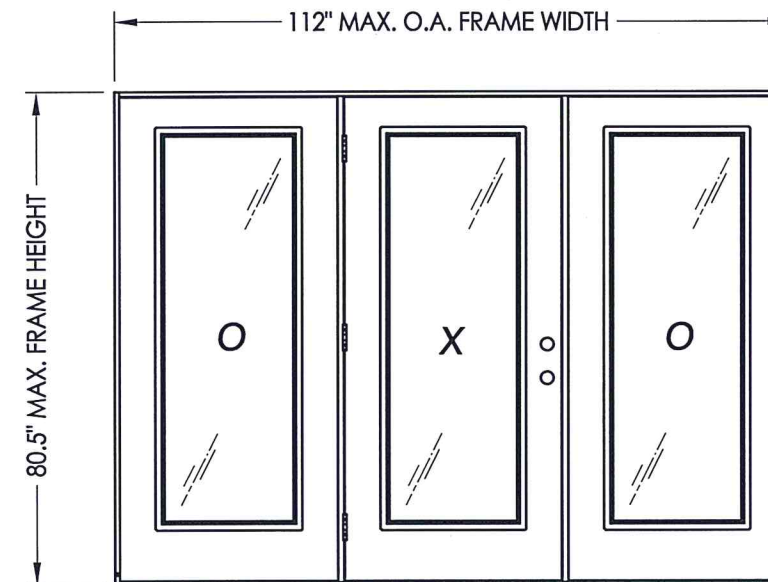
The Fiberglass Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

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 requiring 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.

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8	Vertical cross sections
9	Frame anchoring (OX/XO)
10	Frame anchoring (OXO)
11	Components
12	Bill of materials

CONFIGURATION	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
OX/XO	74.25" x 80.5"	+ 55.0	- 55.0
OXO	112.0" x 80.5"	+ 55.0	- 55.0

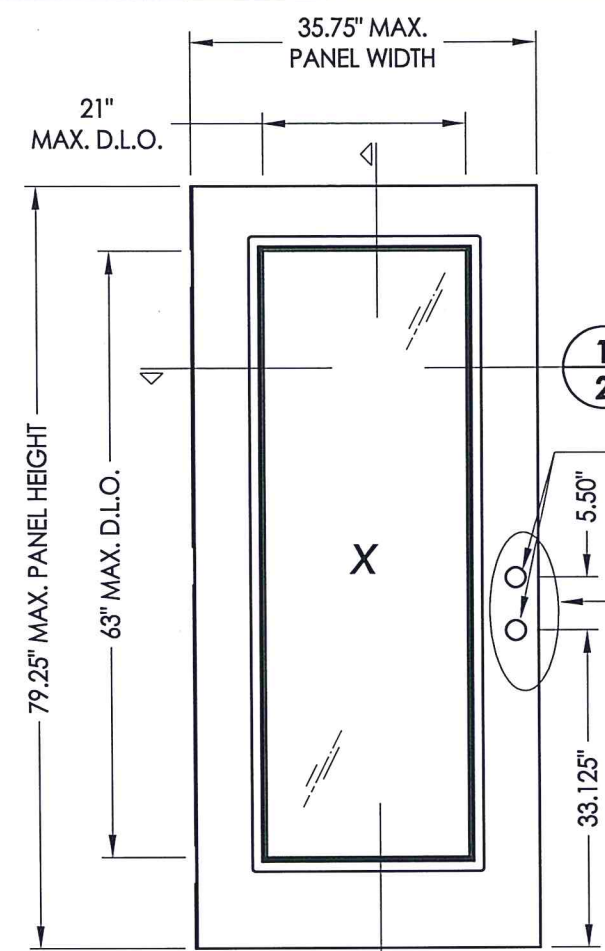


Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

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-11852

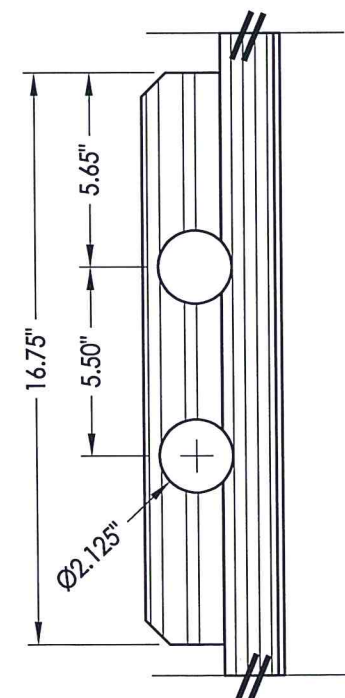
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		LFS	BY
		8/10/21	DATE
1		NO.	REVISIONS
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4155			
SHEET 1 OF 12			

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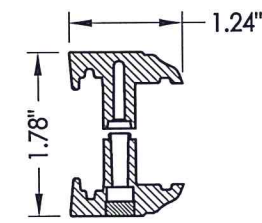


2
2

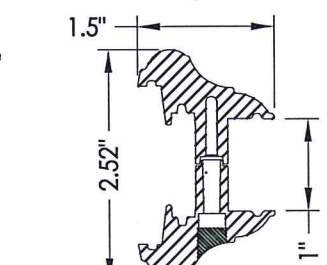
40 DOOR PANEL
Full life



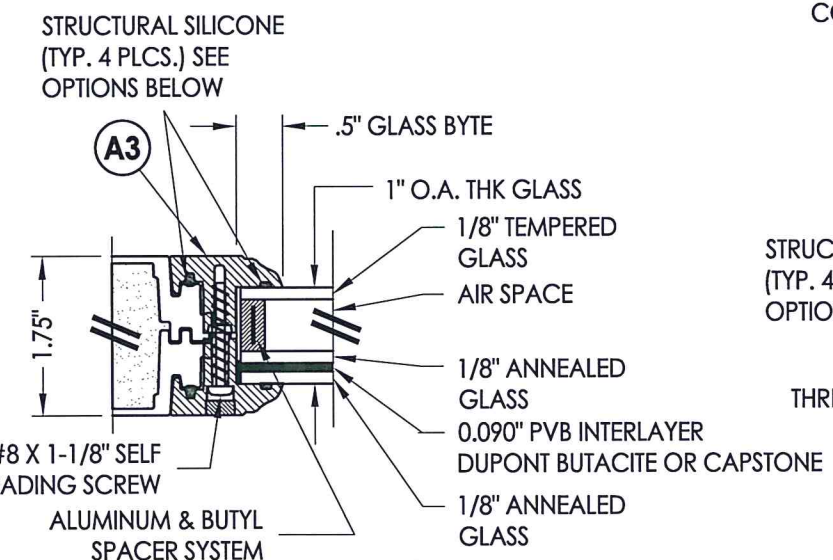
DETAIL 1



A3 FLUSH GLAZED FRAME
ABS or PC/ASA

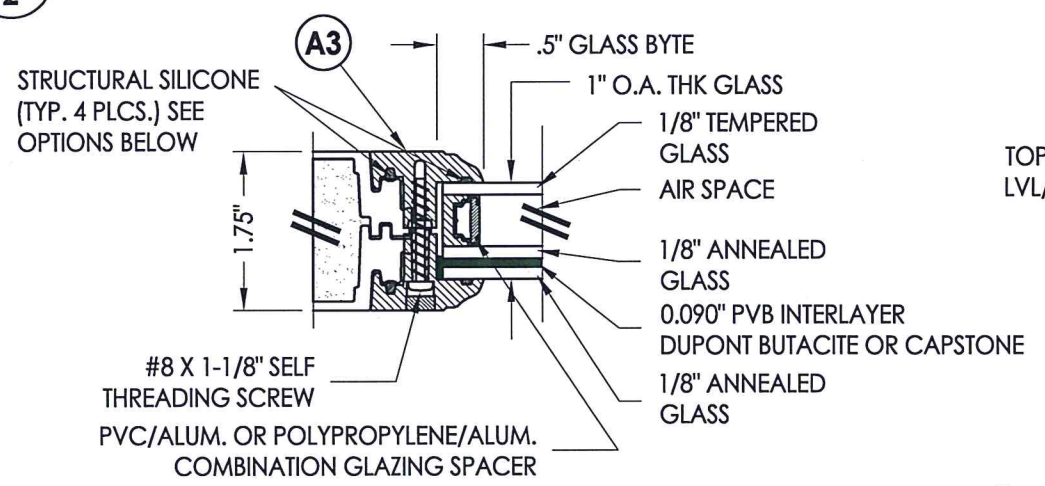


B3 MAHOGANY LITE FRAME
ABS or PC/ASA

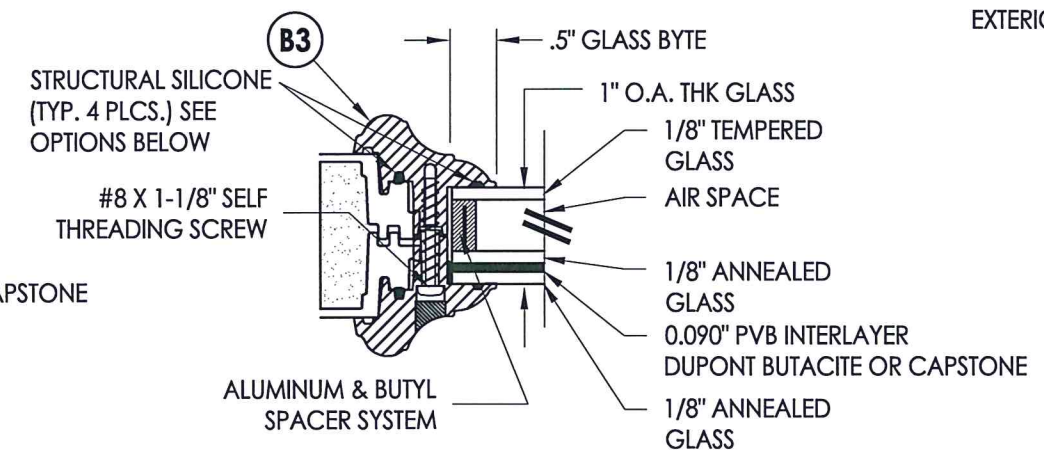


G1 GLAZING DETAIL

1
2 HORIZONTAL CROSS SECTION



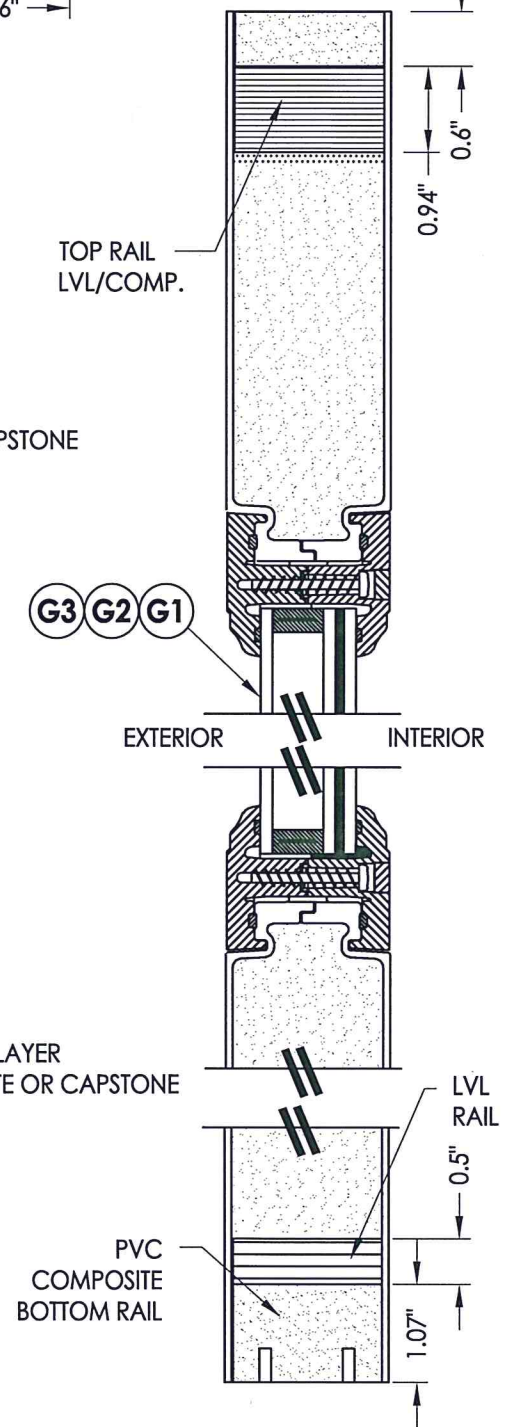
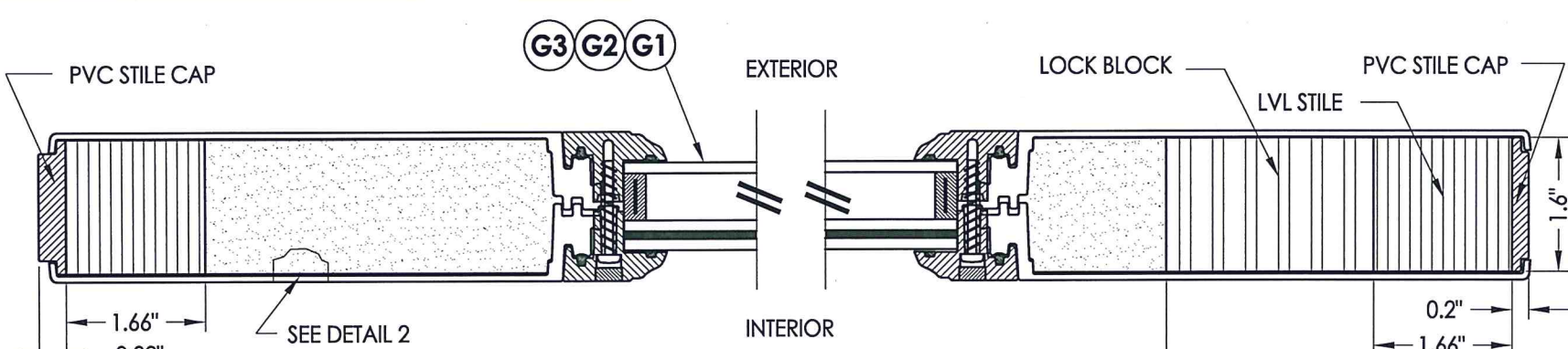
G2 GLAZING DETAIL



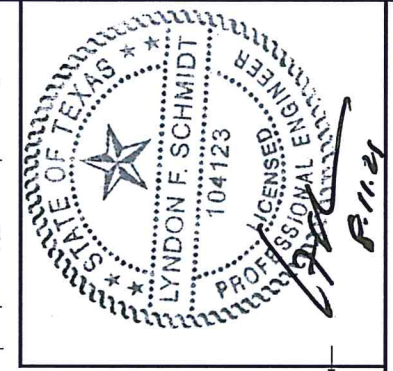
G3 GLAZING DETAIL

LITE FRAME SCREW SPACING:
At each corner plus 6 more along sides (11\"/>

STRUCTURAL SILICONE OPTIONS:
SILICONE BY CAPSTONE (4PL)
DOW 995 STRUCTURAL SILICONE
SILICONE BY DONGYANG SILICONE CO.

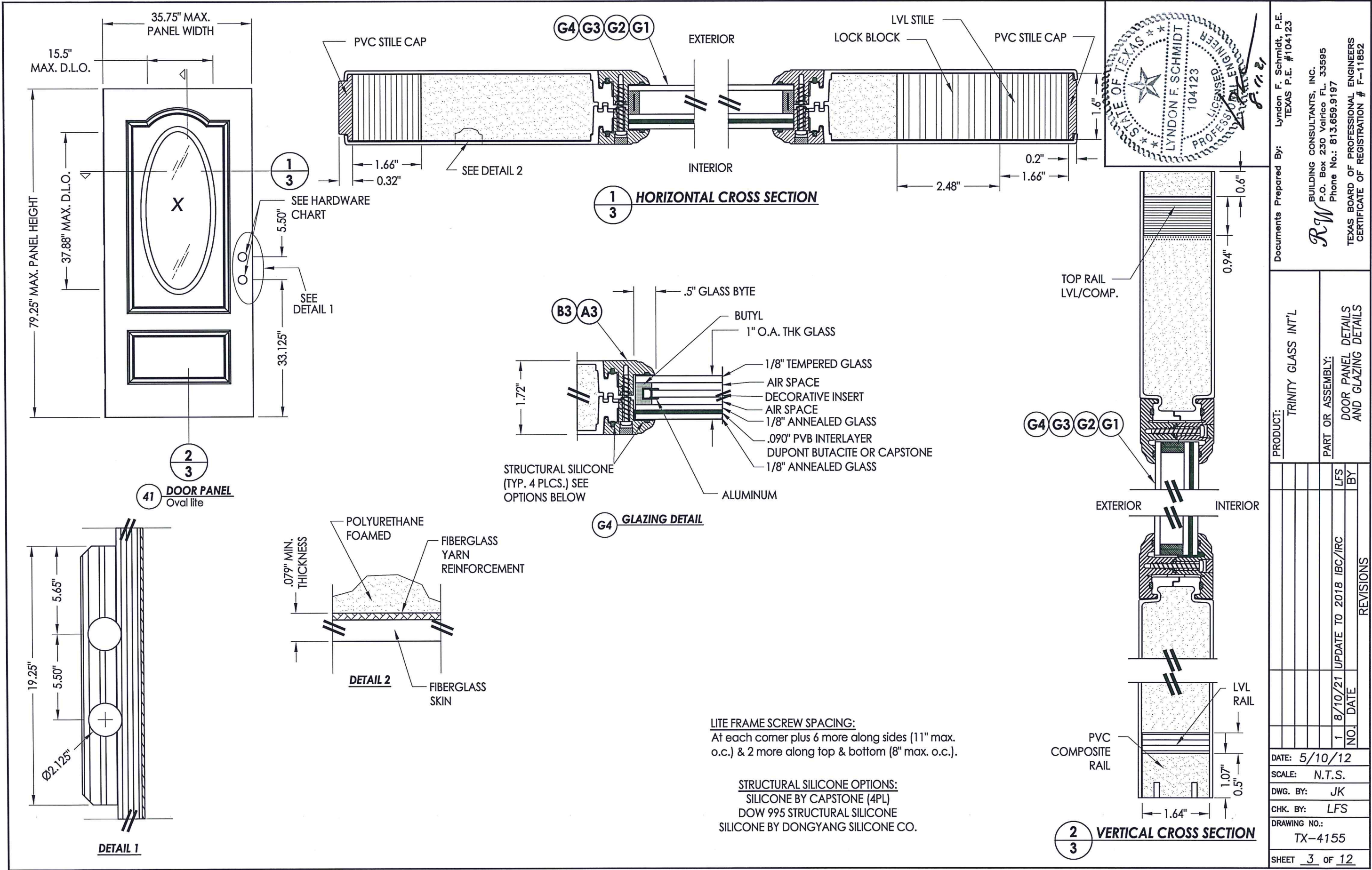


2
2 VERTICAL CROSS SECTION

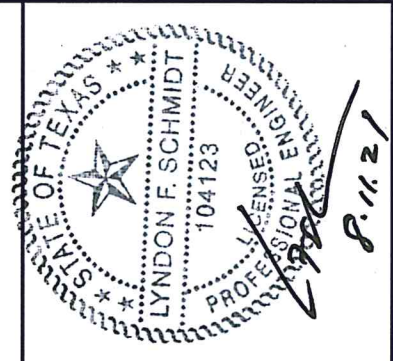
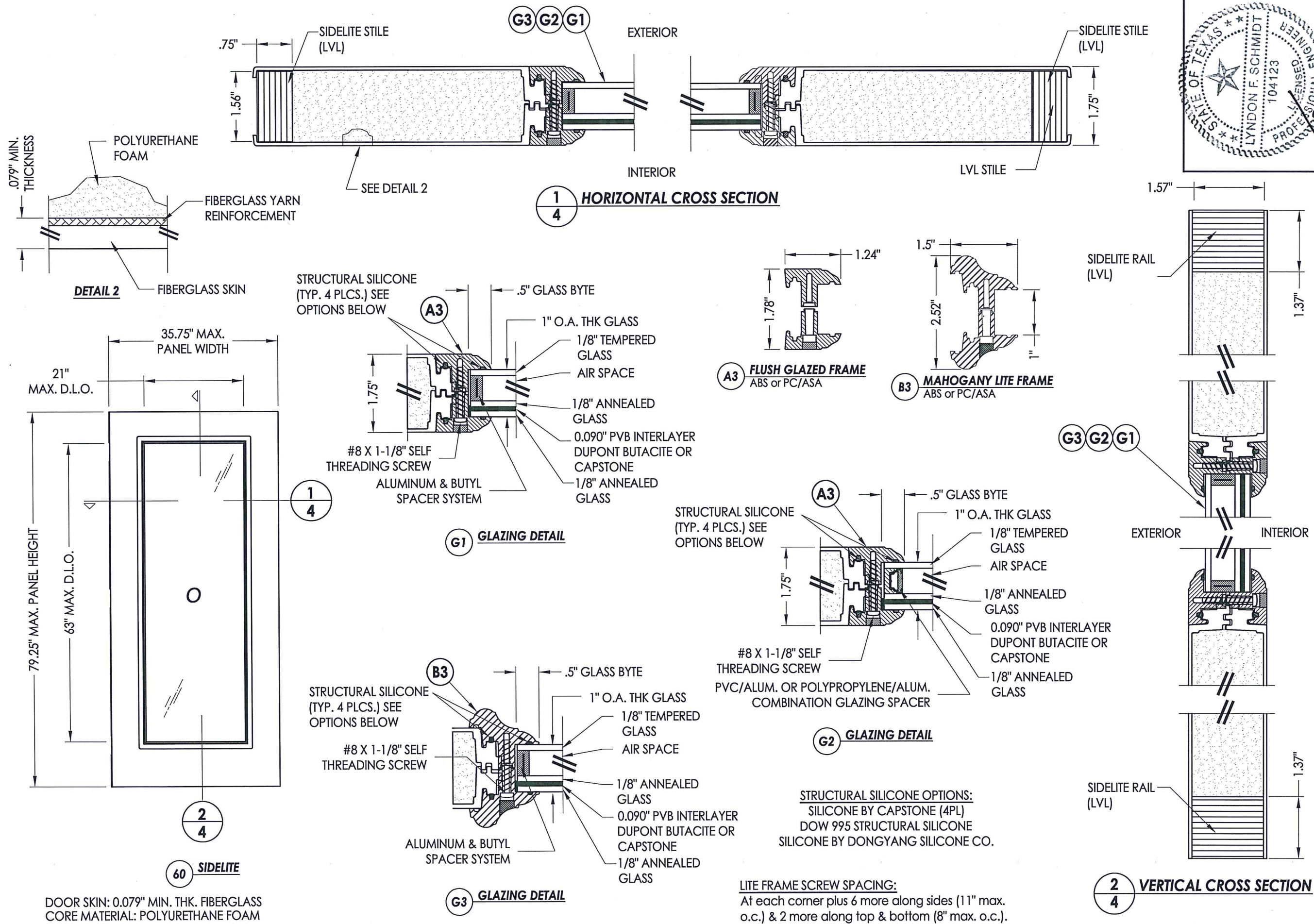


Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197	
PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: DOOR PANEL DETAILS	
		LFS	BY
		1	8/10/21
		NO.	DATE
		REVISIONS	
DATE: 5/10/12		SCALE: N.T.S.	
DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: TX-4155		SHEET 2 OF 12	

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

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY:
SIDELITE PANEL
DETAILS AND GLAZING DETAILS

NO.	DATE	REVISIONS
1	8/10/21	UPDATE TO 2018 IBC/IRC
LFS		BY

DATE: 5/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4155

SHEET 4 OF 12

HARDWARE CHART	
MANUFACTURER	MODEL
KWIKSET	KNOB: KWIKSET SERIES (660) DEADBOLT: KWIKSET SERIES (660)
KWIKSET	KNOB: SIGNATURE SERIES (740) DEADBOLT: SIGNATURE SERIES (780)
KWIKSET	KNOB: SIGNATURE SERIES (740) DEADBOLT: SIGNATURE SERIES (980)

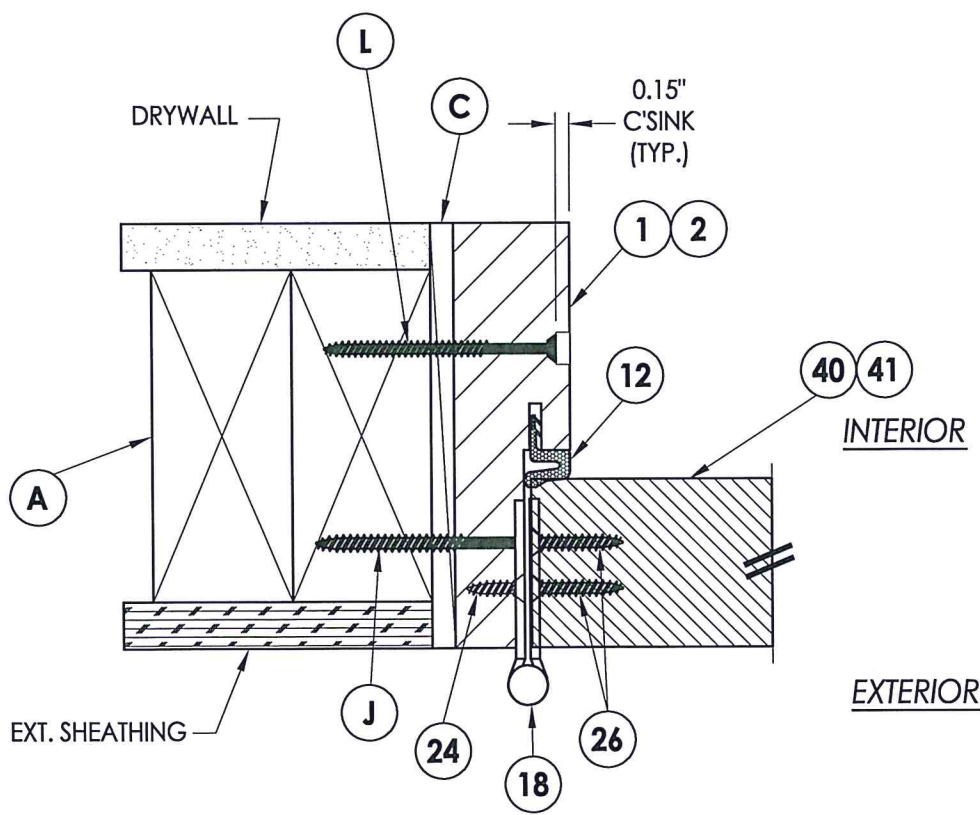


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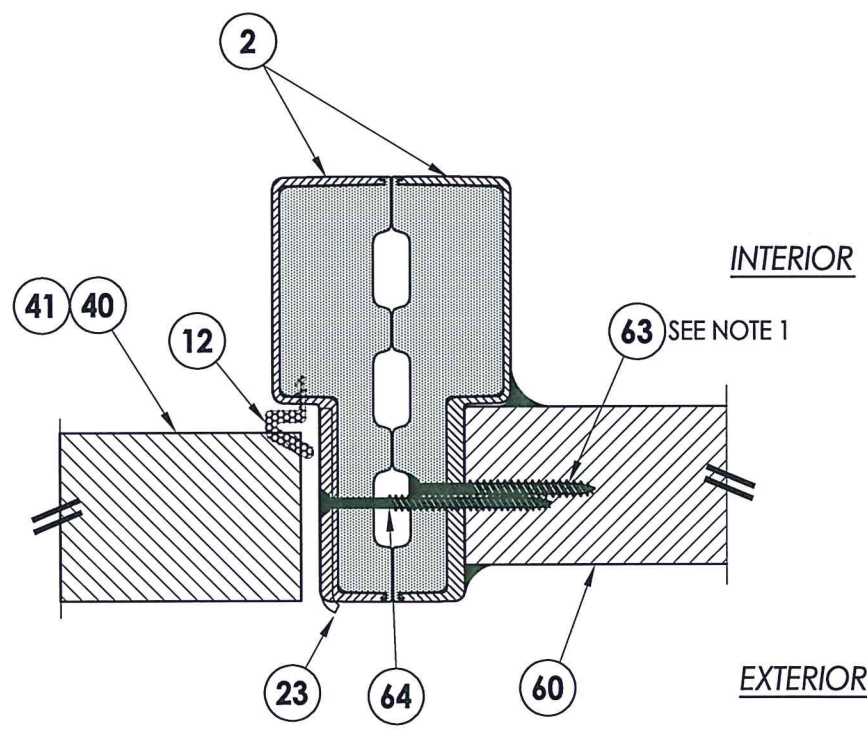
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

DATE: 5/10/12		PRODUCT: TRINITY GLASS INT'L	
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4155		PART OR ASSEMBLY: ELEVATIONS	
SHEET 5 OF 12			

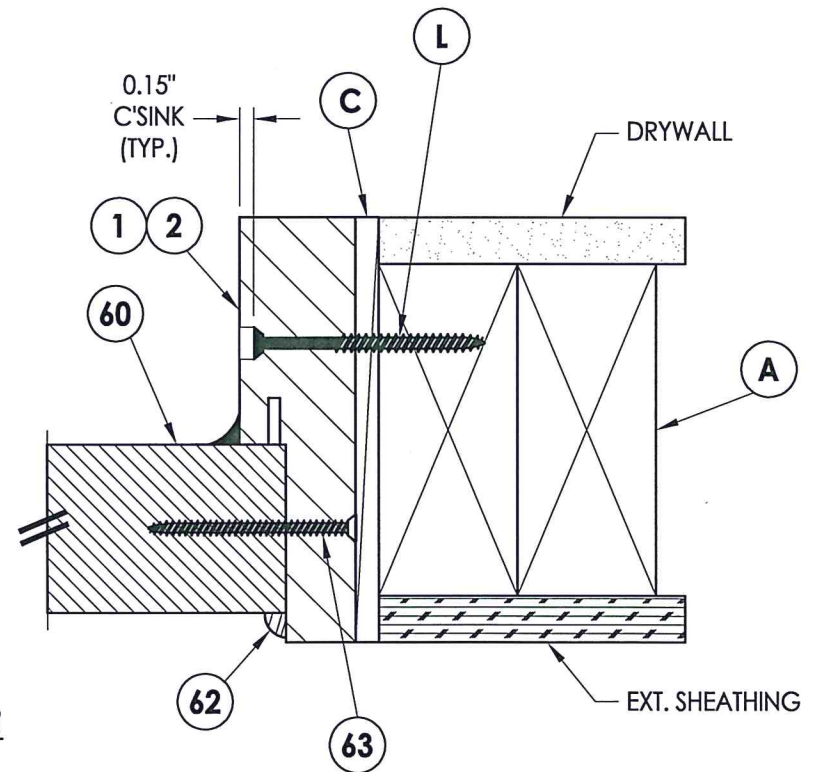
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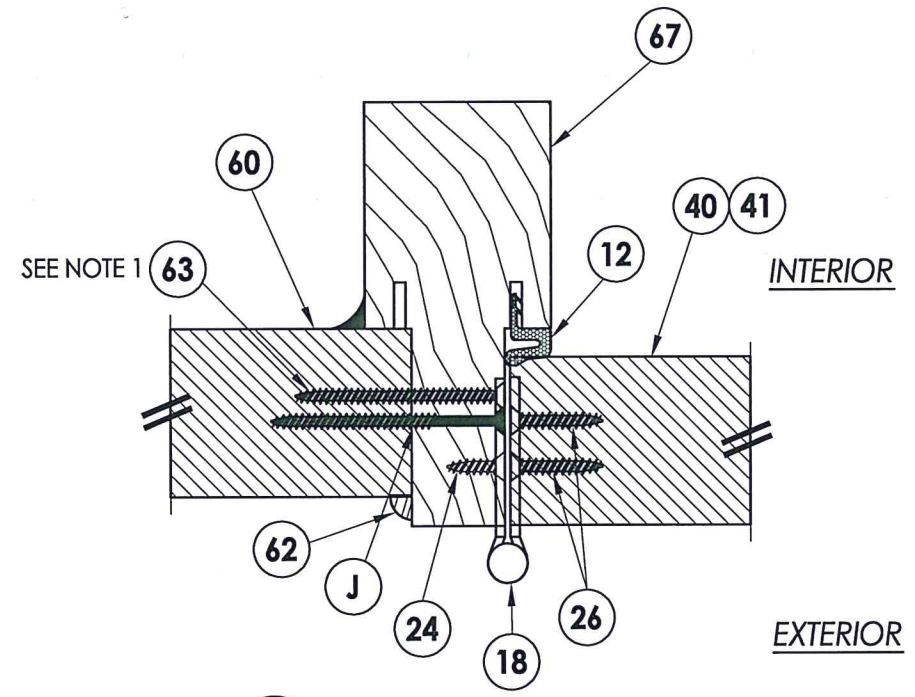
1
6 **HORIZONTAL CROSS SECTION**



2
6 **HORIZONTAL CROSS SECTION**
Shown w/ PVC jambs (back-to-back)



3
6 **HORIZONTAL CROSS SECTION**



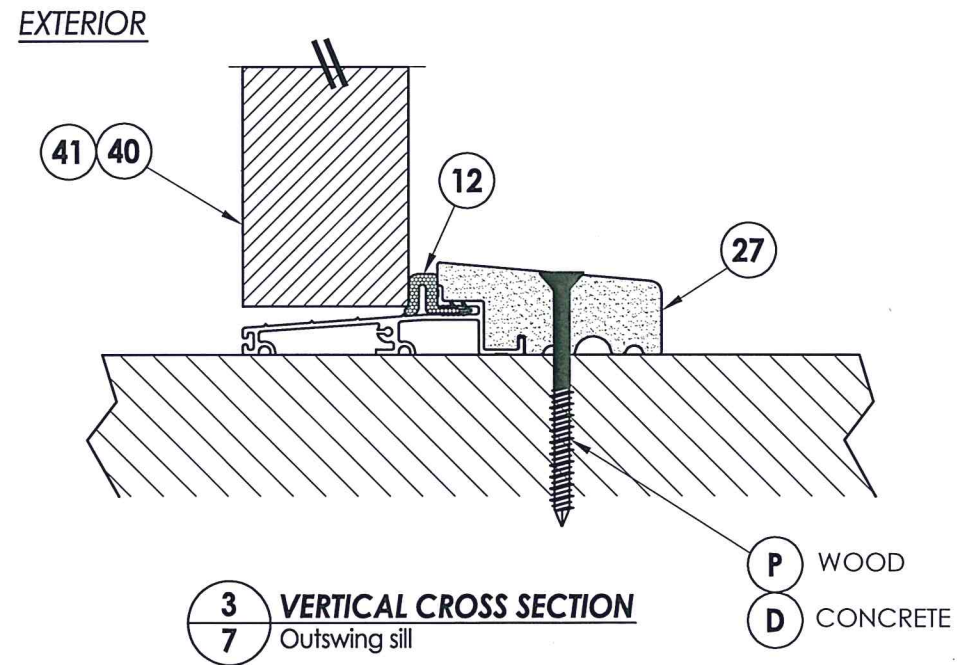
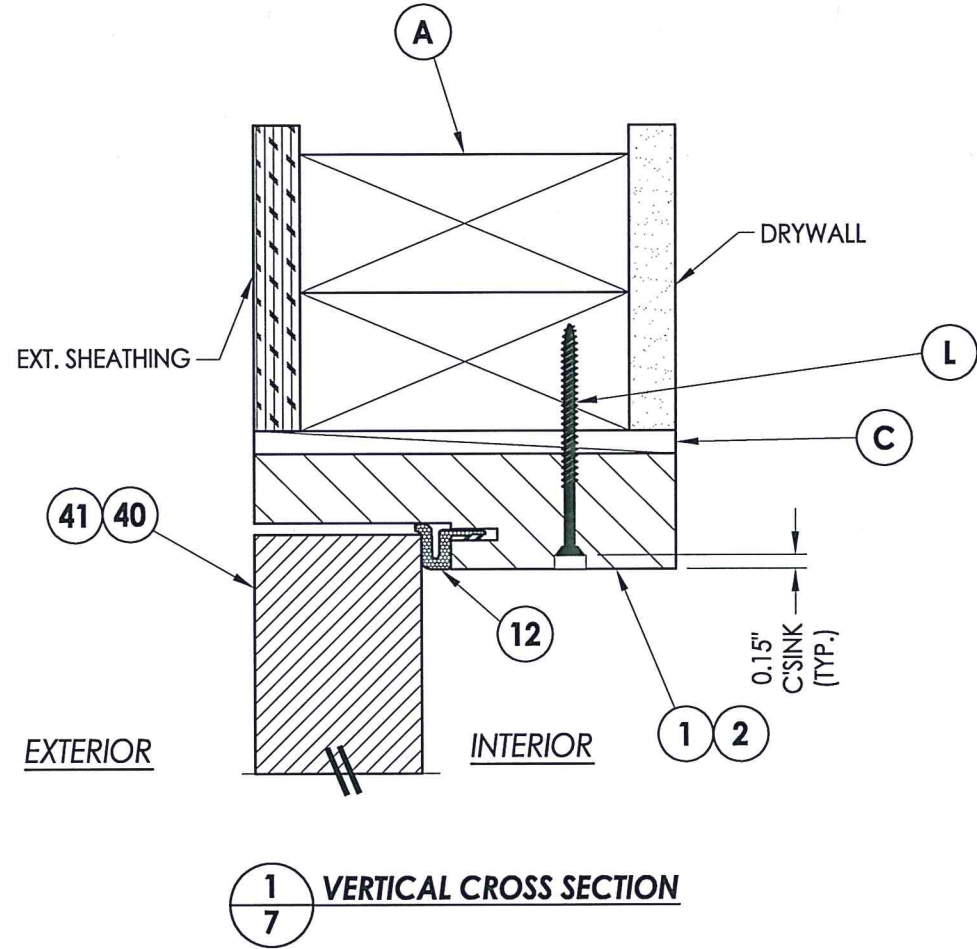
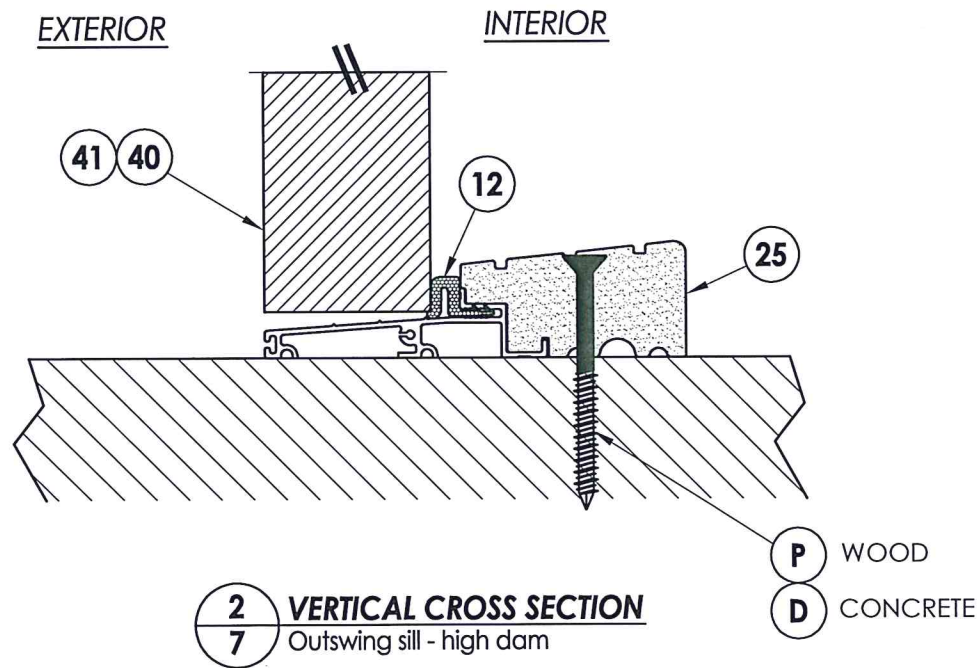
4
6 **HORIZONTAL CROSS SECTION**
Shown w/ wood integral mullion

NOTE:
1. Item #63 located 6" from each end
and 3 more equally spaced (5 total).



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PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			
				LFS	BY
				1	8/10/21
				NO.	DATE
				REVISIONS	
DATE: 5/10/12		SCALE: N.T.S.		DWG. BY: JK	
				CHK. BY: LFS	
				DRAWING NO.: TX-4155	
SHEET 6		OF 12			

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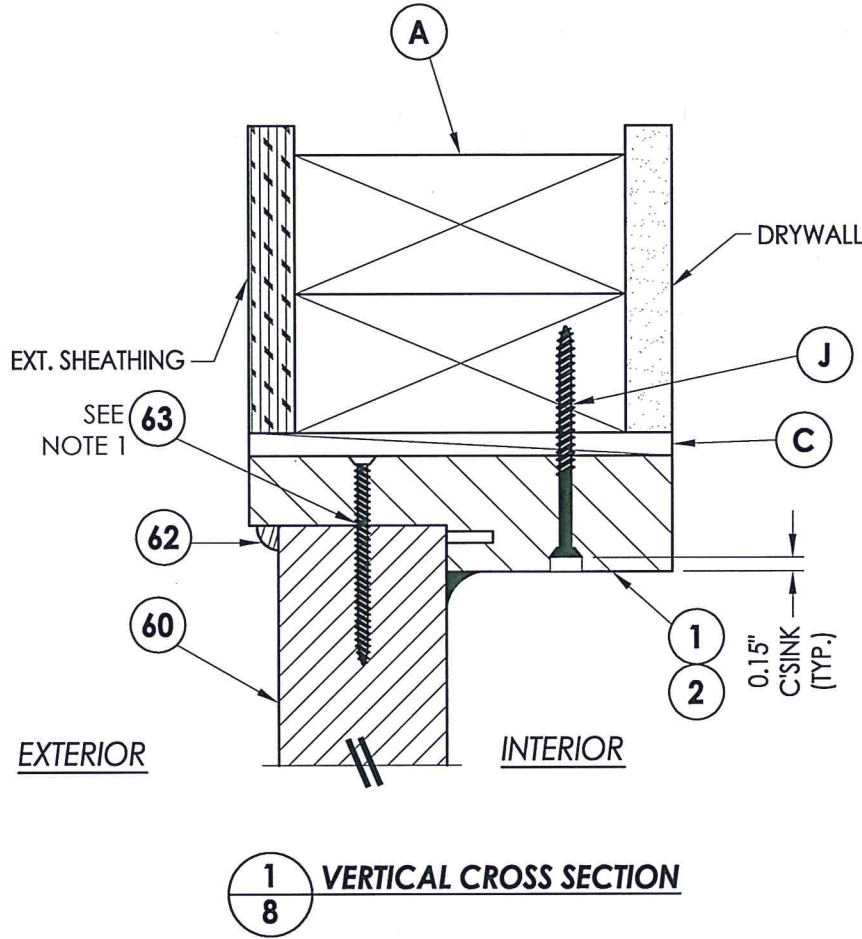
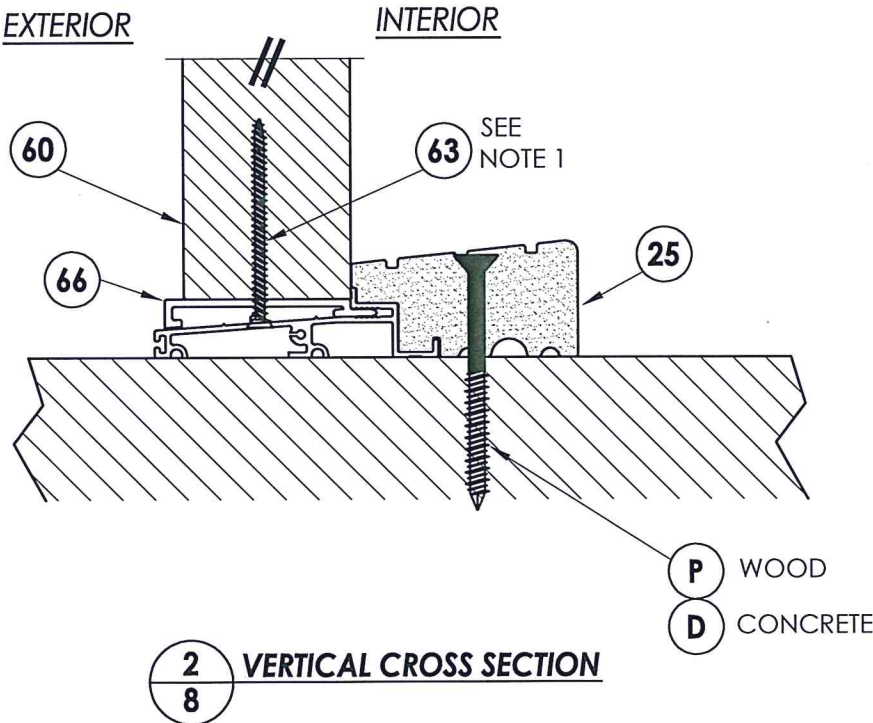


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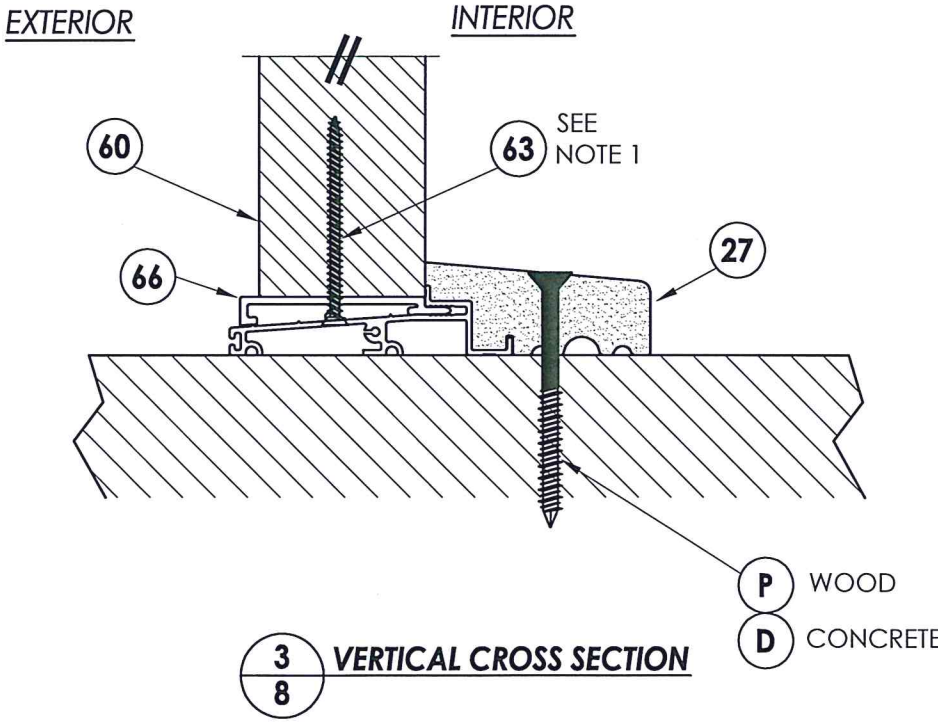
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P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT:		TRINITY GLASS INT'L	
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS	
NO.	DATE	REVISIONS	
		LFS	BY
1	8/10/21	UPDATE TO 2018 IBC/IRC	
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4155			
SHEET 7 OF 12			

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NOTE:
1. Screws thru head and sill jamb located 3" from each end and O.C. (TYP.) line.



PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
		REVISIONS	
		NO.	DATE
		1	8/10/21
		UPDATE TO 2018 IBC/IRC	
		LFS	BY

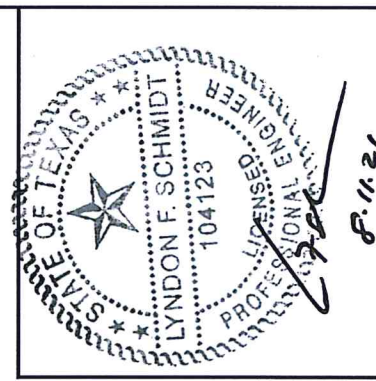
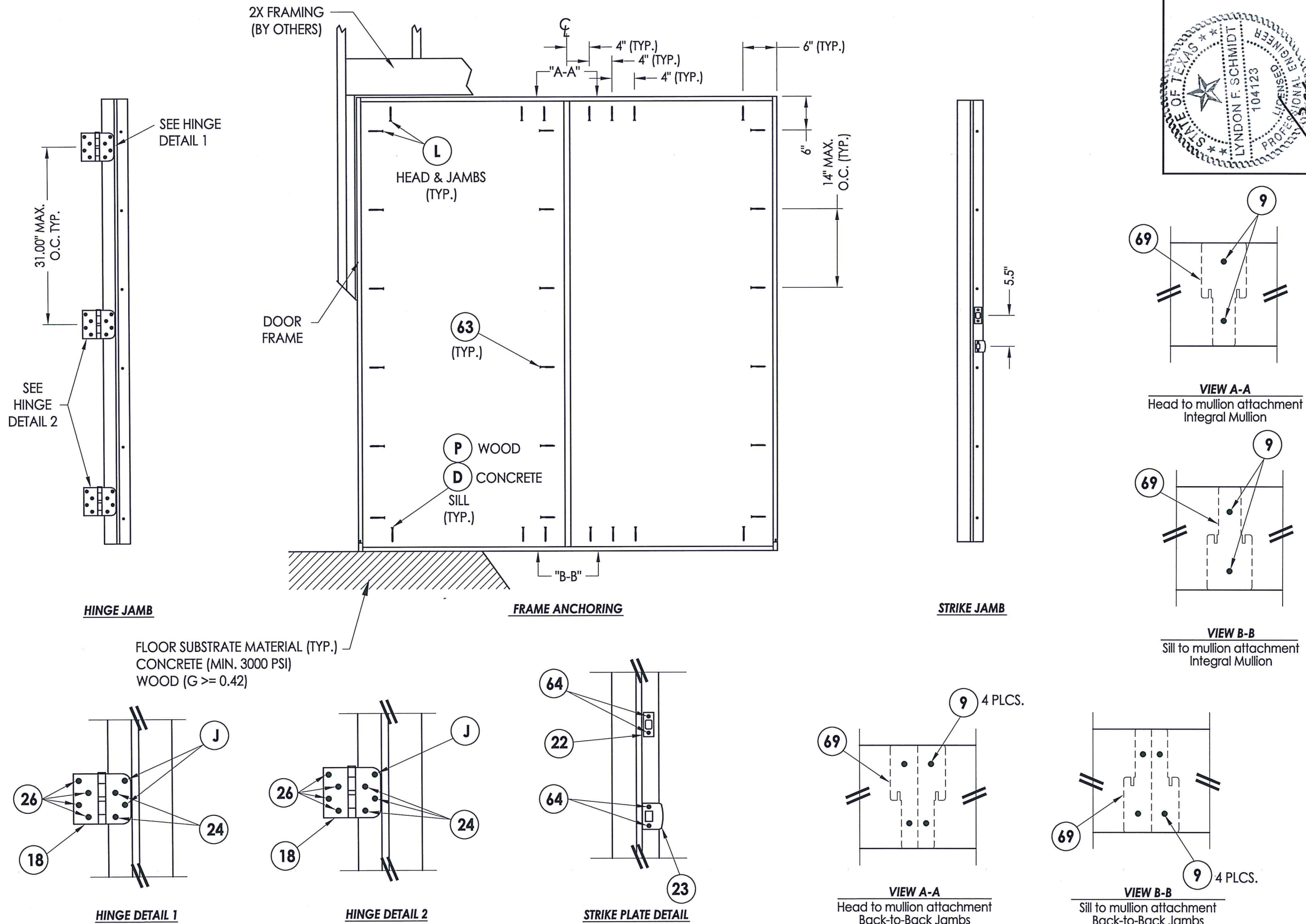
Documents Prepared By: Lyndon F. Schmidt, P.E.
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CERTIFICATE OF REGISTRATION # F-11852

DATE: 5/10/12
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4155
SHEET 8 OF 12

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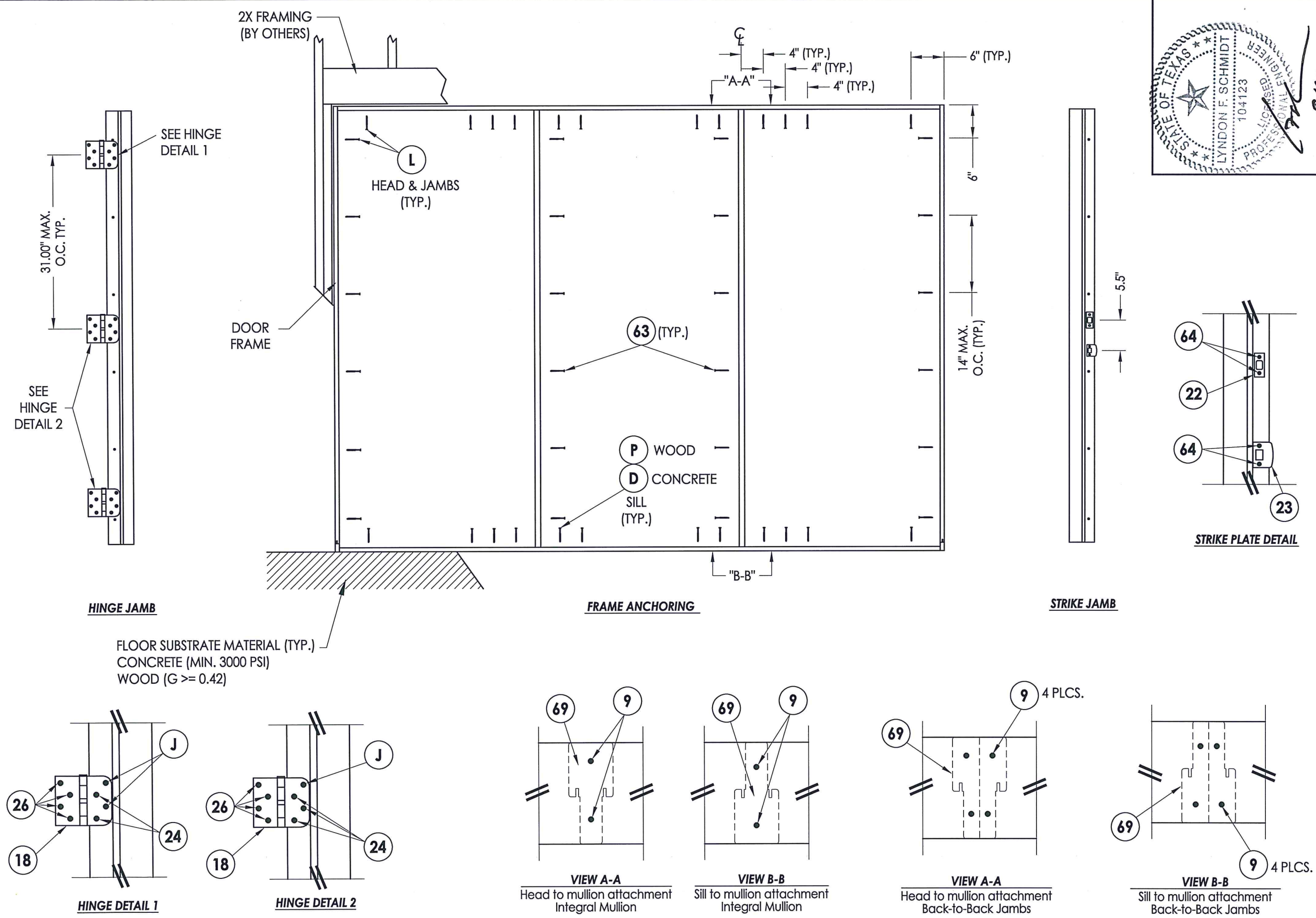
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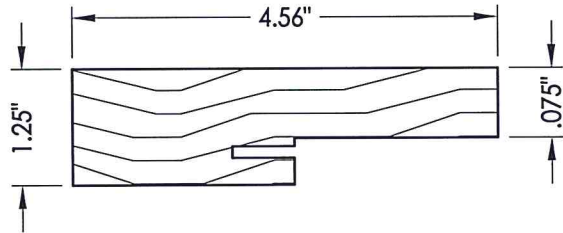
TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: FRAME ANCHORING (OX/XO)	
			LFS
			BY
1	8/10/21	UPDATE TO 2018 IBC/IRC	
NO.	DATE		
			REVISIONS
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4155			
SHEET 9 OF 12			

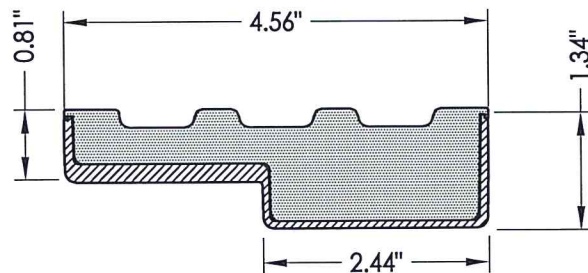
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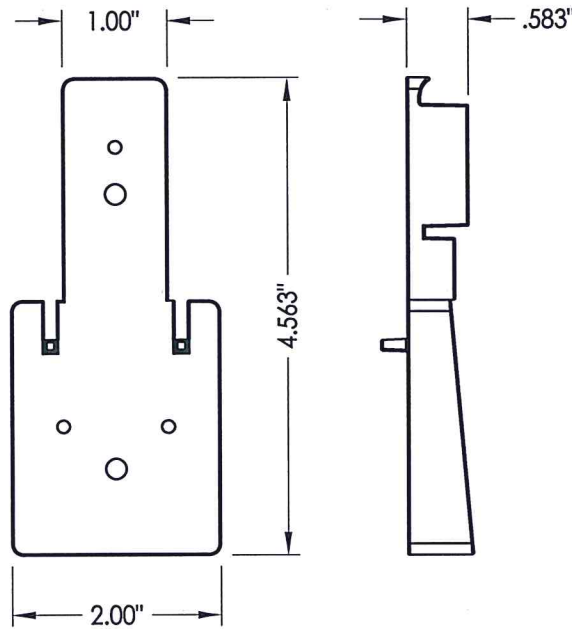
Documents Prepared By: Lyndon F. Schmidt, P.E. TEXAS P.E. #104123		BUILDING CONSULTANTS, INC. P.O. Box 230 Valrico FL 33595 Phone No.: 813.659.9197	
PRODUCT: TRINITY GLASS INT'L		PART OR ASSEMBLY: FRAME ANCHORING (OXO)	
		LFS	
		BY	
		REVISIONS	
		1 8/10/21 UPDATE TO 2018 IBC/IRC	
		NO. DATE	
DATE: 5/10/12			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: TX-4155			
SHEET 10 OF 12			



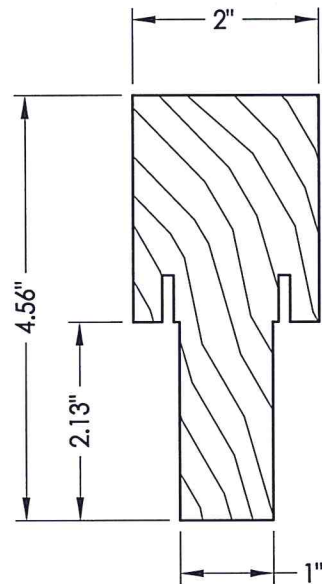
1 HEAD & JAMBS
Wood



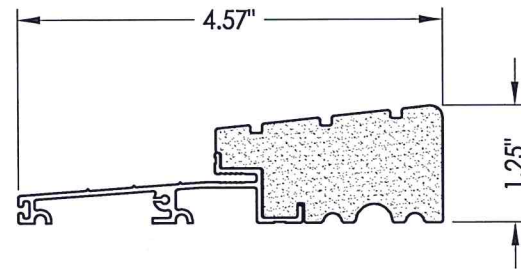
2 HEAD & JAMBS
Composite PVC Base
w/ Fiberglass Wrap



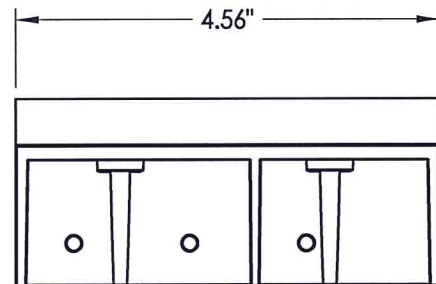
69 MULLION BASE KIT
Optional



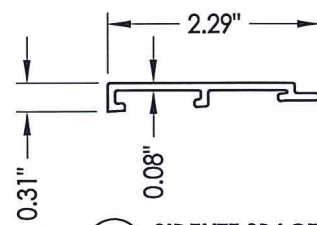
67 INTEGRAL MULLION



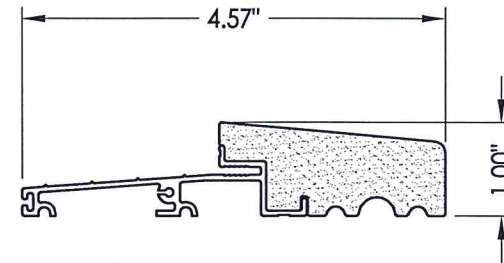
25 OUTSWING THRESHOLD
High-dam option



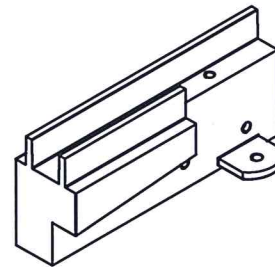
19 SILLKEY DETAILS
Optional



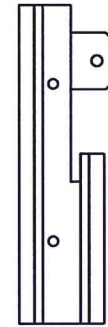
66 SIDELITE SPACER
Outswing



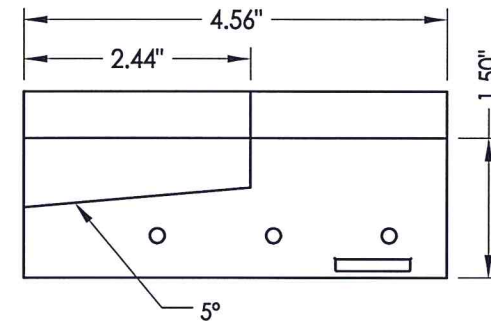
27 OUTSWING THRESHOLD



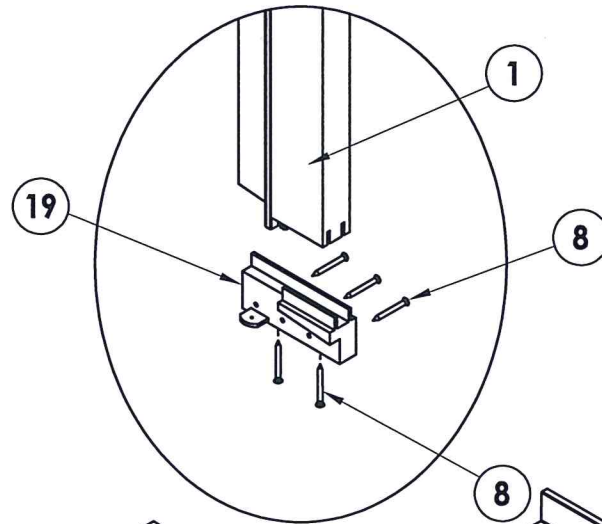
SILLKEY, LEFT
SCALE: NONE



SILLKEY, RIGHT
SCALE: NONE



5°



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CERTIFICATE OF REGISTRATION # F-11852

PRODUCT: TRINITY GLASS INT'L

PART OR ASSEMBLY: COMPONENTS

NO.	DATE	REVISIONS
1	8/10/21	UPDATE TO 2018 IBC/IRC
LFS		
BY		

DATE: 5/10/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4155

SHEET 11 OF 12

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	#9 X 2-1/4" PFH WS	STEEL
L	#8 X 2-1/2" PFH WS	STEEL
P	#10 X 3" PFH WS	STEEL
1	HEAD & JAMBS (FINGER-JOINT PINE: G >= 0.42)	WOOD
2	HEAD & JAMBS (FIBERGLASS/COMPOSITE)	FIBERGLASS/COMP
8	#6 X 1-1/4 PFH DRYWALL SCREW	STEEL
9	#9 X 2-1/4" PFH WOOD SCREW	STEEL
12	WEATHER STRIP QEBD650 Q-LON	-
18	4" X 4" HINGE	STEEL
19	SILLKEY	PC/ASA
22	DEADBOLT STRIKE PLATE	STEEL
23	STRIKE PLATE	STEEL
24	#9 X 5/8" PFH WS	STEEL
25	OUTSWING HIGH-DAM THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
26	#9 X 1" PFH WS	STEEL
27	OUTSWING THRESHOLD ALUMINUM W/ COMPOSITE SUBSTRATE	ALUM./ COMP.
40	DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
60	SIDELITE PANEL - SEE SIDELITE PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS	-
62	QUARTER ROUND	WOOD
63	#8 X 2-1/4" PFH WOOD SCREW	STEEL
64	#8 X 2" PFH WOOD SCREW	STEEL
66	SIDELITE SPACER	ALUM
67	INTEGRAL MULLION (G >= 0.42)	WOOD
69	MULLION BASE KIT	PC/ASA

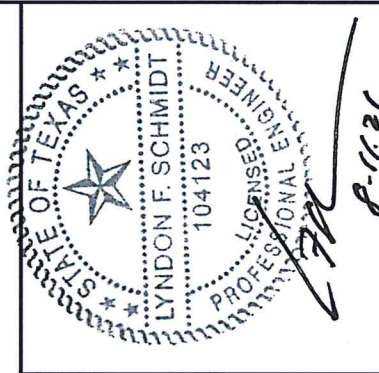
CONCRETE ANCHOR NOTES:

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. O.C. (TYP.)" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. O.C. (TYP.)" 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"	4"
DeWALT ULTRACON®	1/4"	1-3/4"	1"	4"

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.



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