



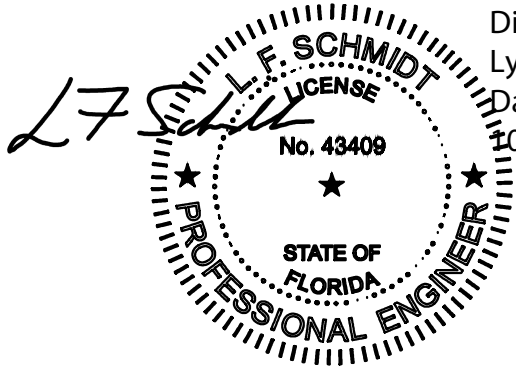
Fiber-Classic® & Smooth-Star®

COMPOSITE EDGE
OPAQUE FIBERGLASS SINGLE DOOR
INSWING/OUTSWING
"IMPACT" DOOR w/ "NON-IMPACT" SIDELITES

GENERAL NOTES

1. This product evaluation drawing has been developed in compliance with the 8th Edition (2023) Florida Building Code (FBC) including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with FBC Section 1626 and does not require an impact resistant covering. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Section 1626.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1. The non-impact sidelite(s) must be protected with an impact resistant covering complying with FBC Sections 1609.1.2 & R301.2.1.2.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using Coastal Sill (item #19) & Composite Sill (item #16) under active doors and all sills used under sidelites meet water infiltration requirements for "HVHZ". All other configurations do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
8. Fiber-Classic & Smooth-Star Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

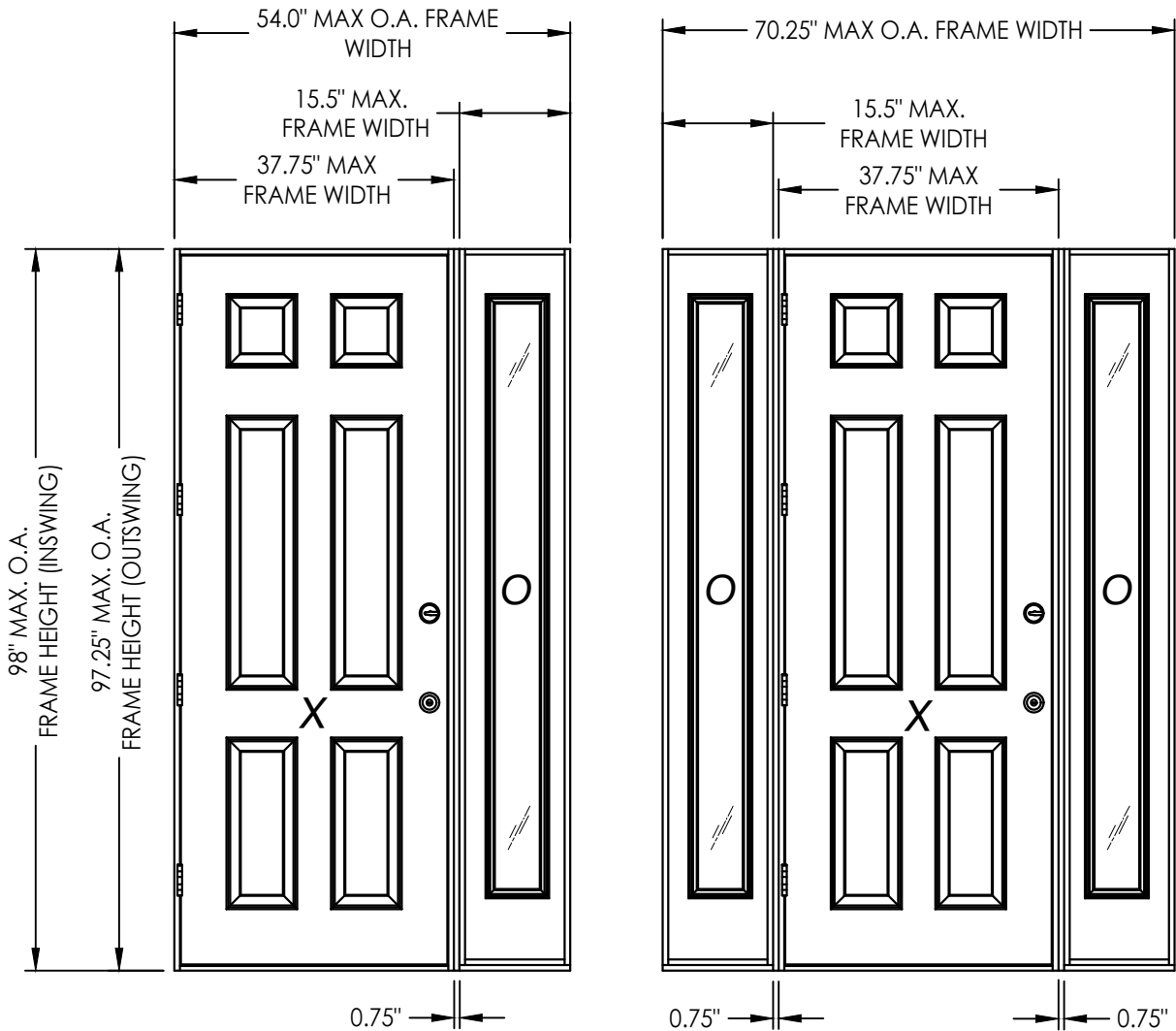
TABLE OF CONTENTS			
SHEET #	DESCRIPTION	SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	8	Vertical Cross Sections (Thresholds)
2	Door Panel Details	9	Buck Anchoring
3	Sidelite Panel Details	10	Frame Anchoring
4	Elevations	11	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)	12	Glazing Details
6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by
Lyndon F Schmidt
Date: 2023.07.25
10:58:30 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+65.0	-65.0	+65.0	-65.0

See Sheet 4 for Hardware Specifications

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

THERMA TRU
FIBERGLASS DOOR

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

3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK
NO.	DATE			BY

REVISIONS

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

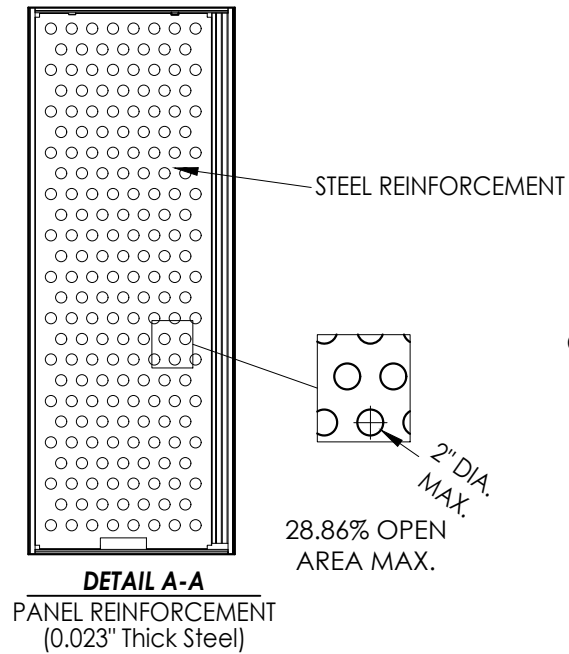
CHK. BY: LFS

DRAWING NO.:
FL-20470.15

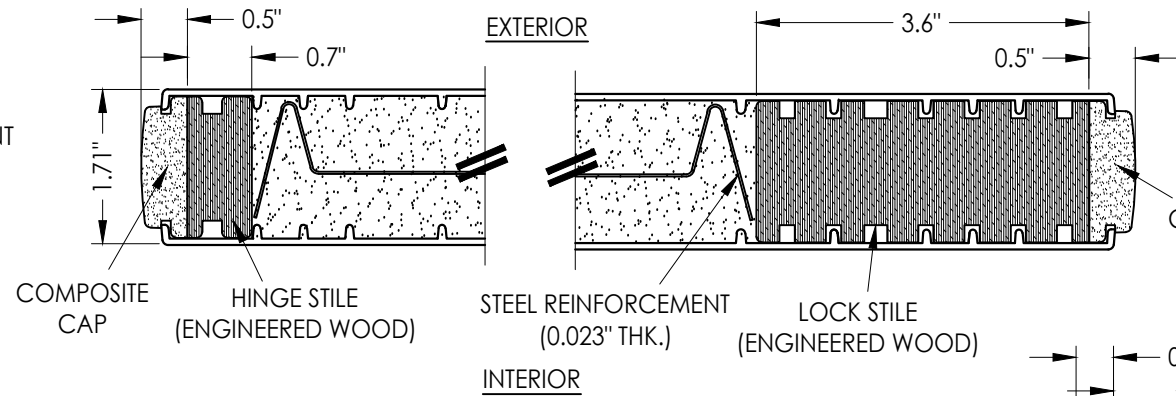
SHEET 1 OF 14

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

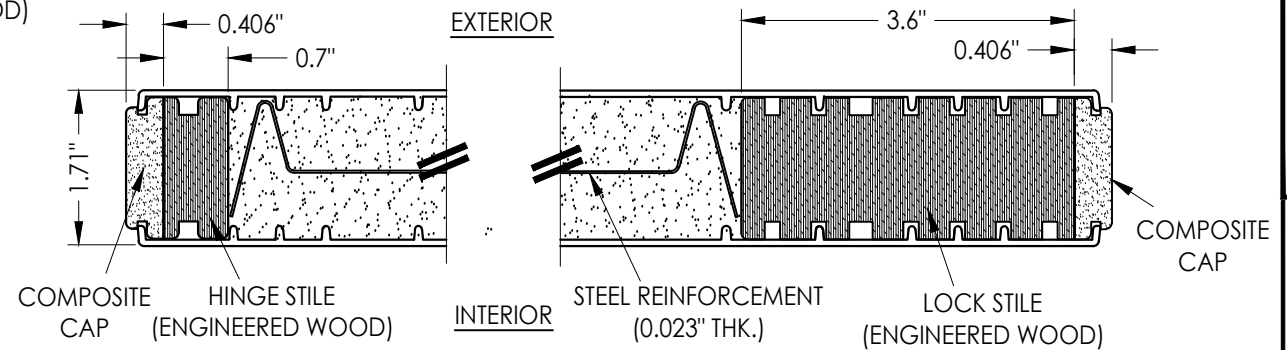
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



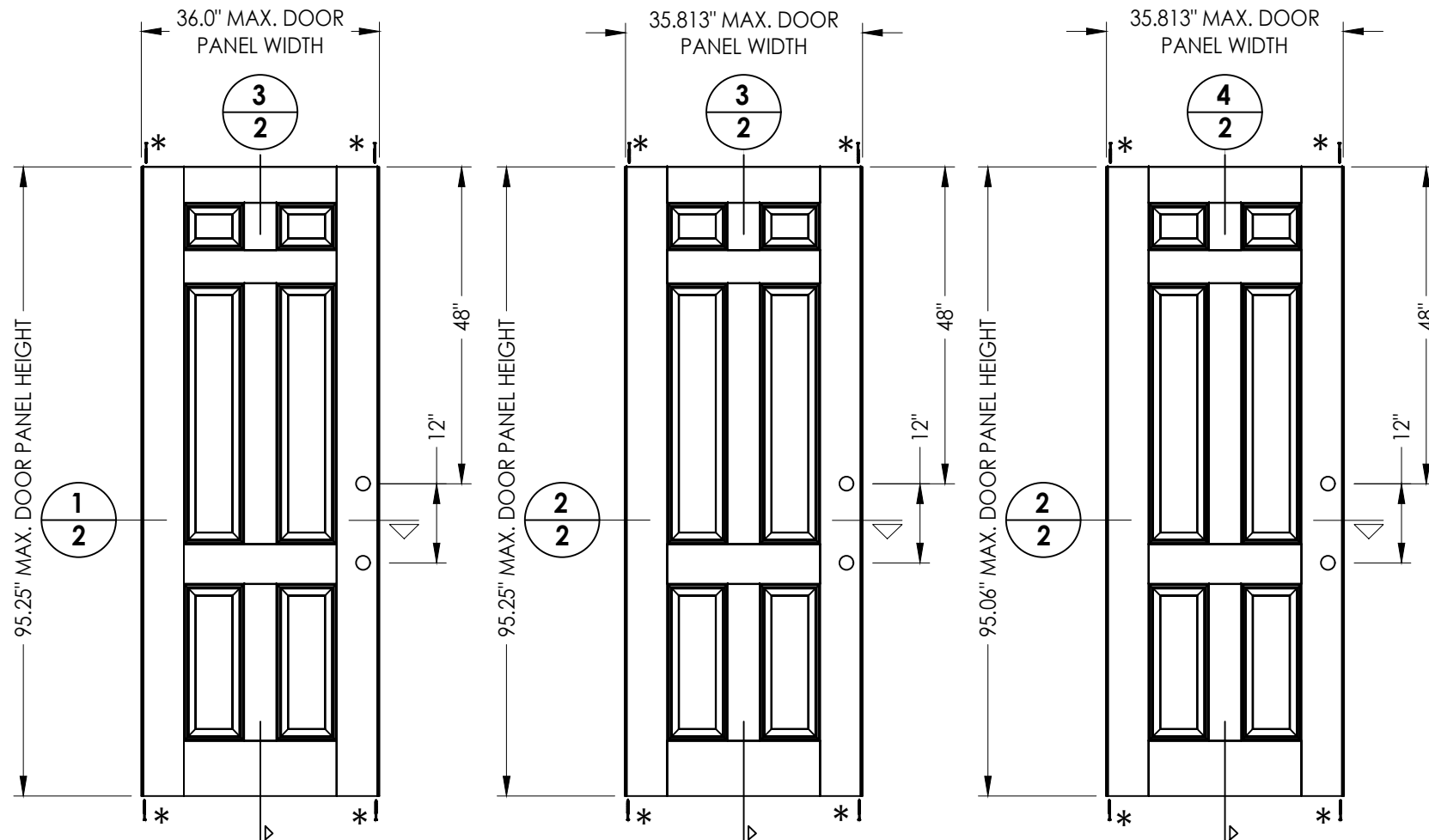
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



1
2 HORIZONTAL CROSS SECTION



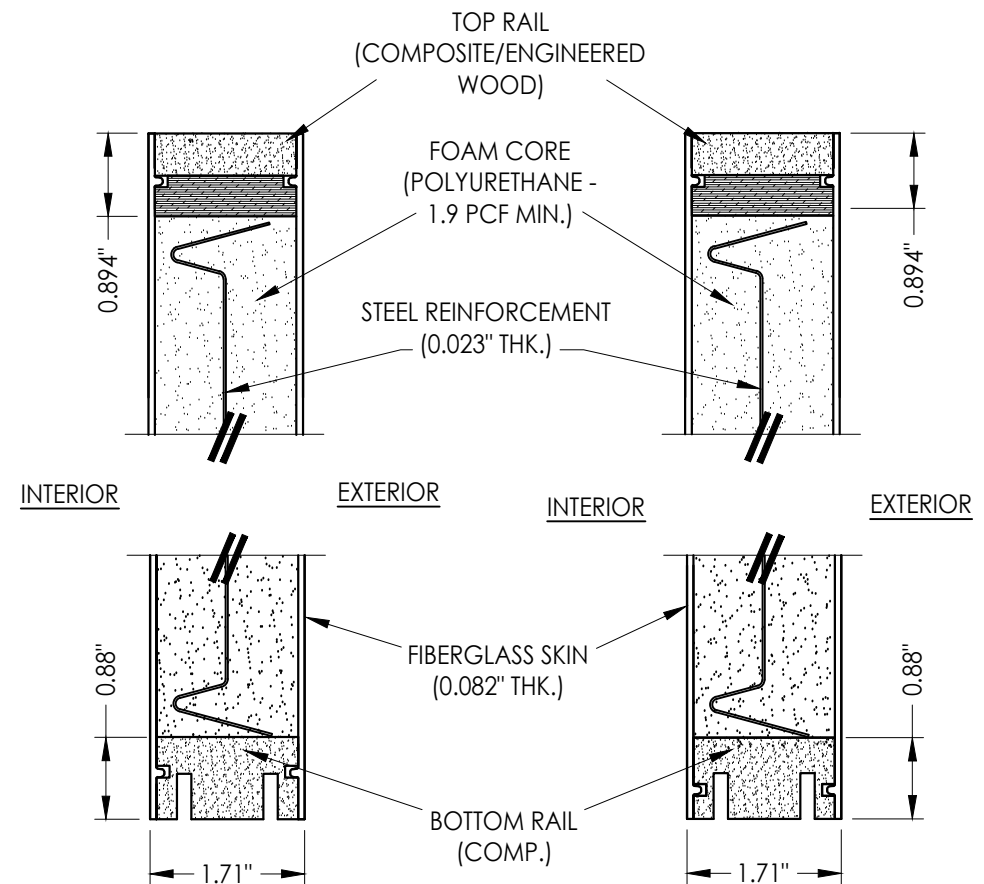
2
2 HORIZONTAL CROSS SECTION



40 DOOR PANEL
BOOK

41 DOOR PANEL
Hybrid Door

42 DOOR PANEL
U1 Door



3
2 VERTICAL CROSS SECTION

4
2 VERTICAL CROSS SECTION

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

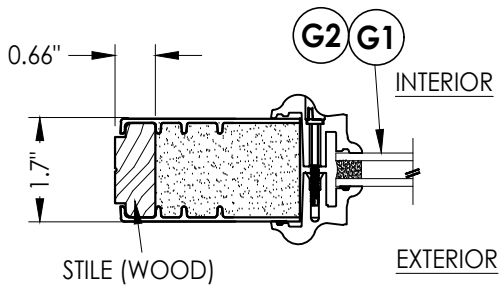
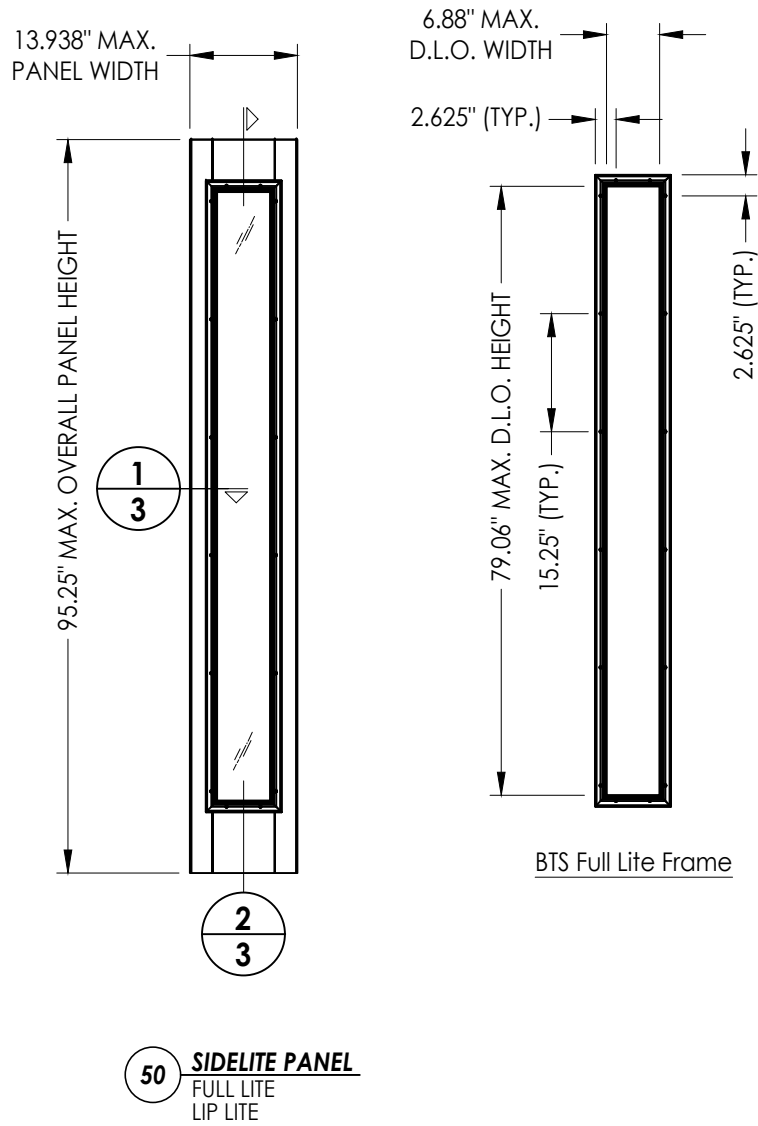
PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

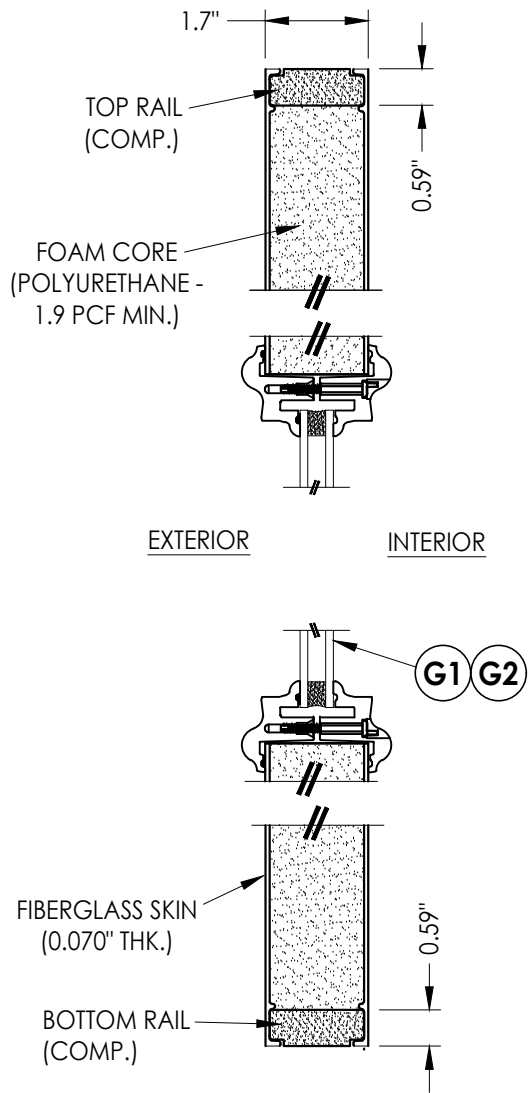
NO.	DATE	REVISIONS			
		BY	CHK	DATE	DESCRIPTION
3	7/25/23	LFS			UPDATE TO 8TH ED. (2023) FBC
2	7/22/20	LFS			UPDATE TO 7th ED (2020) FBC
1	7/14/17	JK			UPDATE TO 6TH ED. (2017) FBC

DATE: 8/10/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20470.15
SHEET 2 OF 14

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



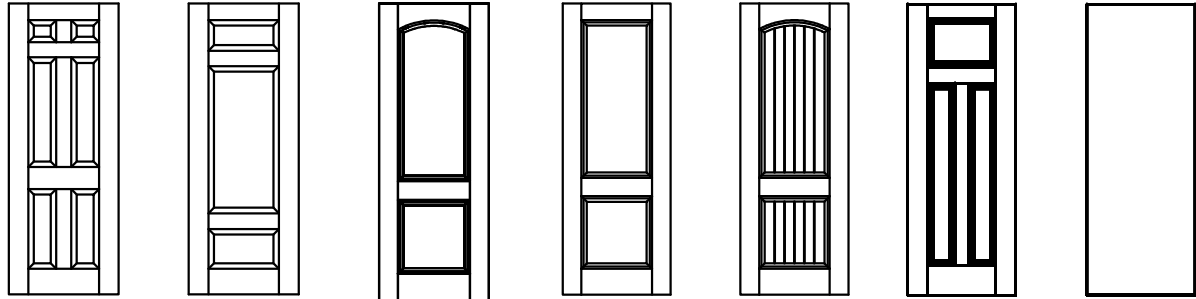
1
3 HORIZONTAL CROSS SECTION
Lip Lite Glazing



2
3 VERTICAL CROSS SECTION
Lip Lite Glazing

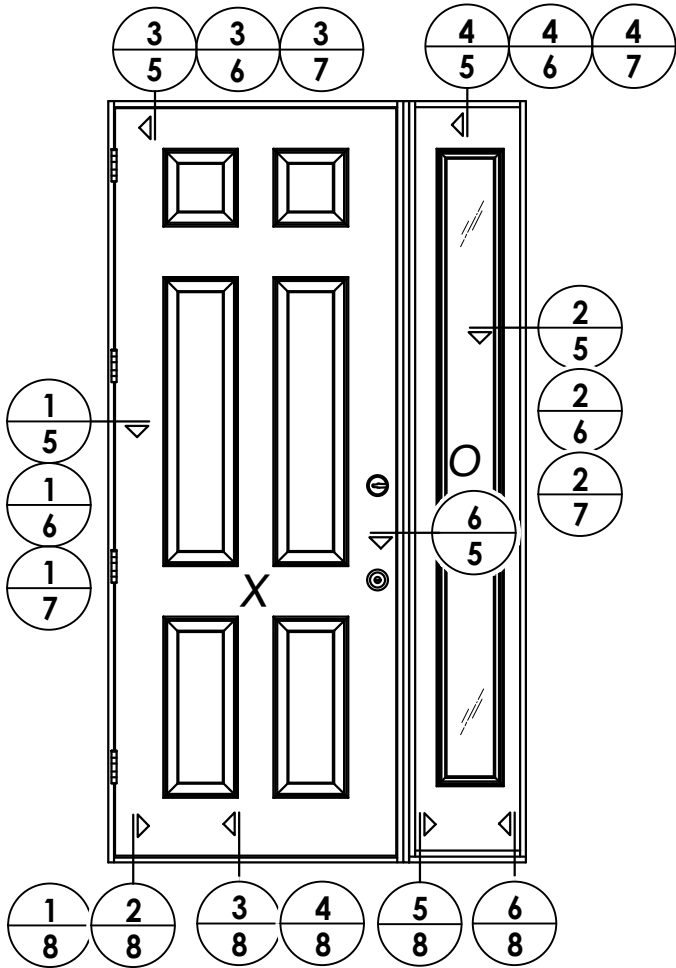
PRODUCT:		THERMA TRU FIBERGLASS DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS		R^W BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS	
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK	
NO.	DATE			BY	
					REVISIONS
DATE: 8/10/16					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-20470.15					
SHEET 3 OF 14					

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg

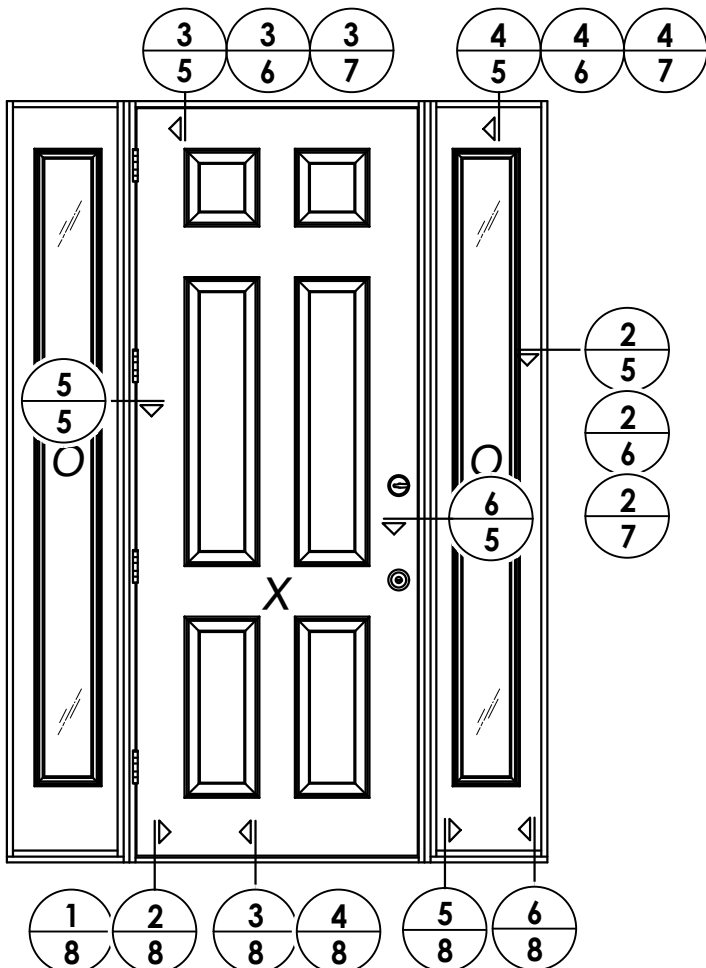


Fiber-Classic/Smooth-Star Door Panel Options

Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)



ELEVATION
XO

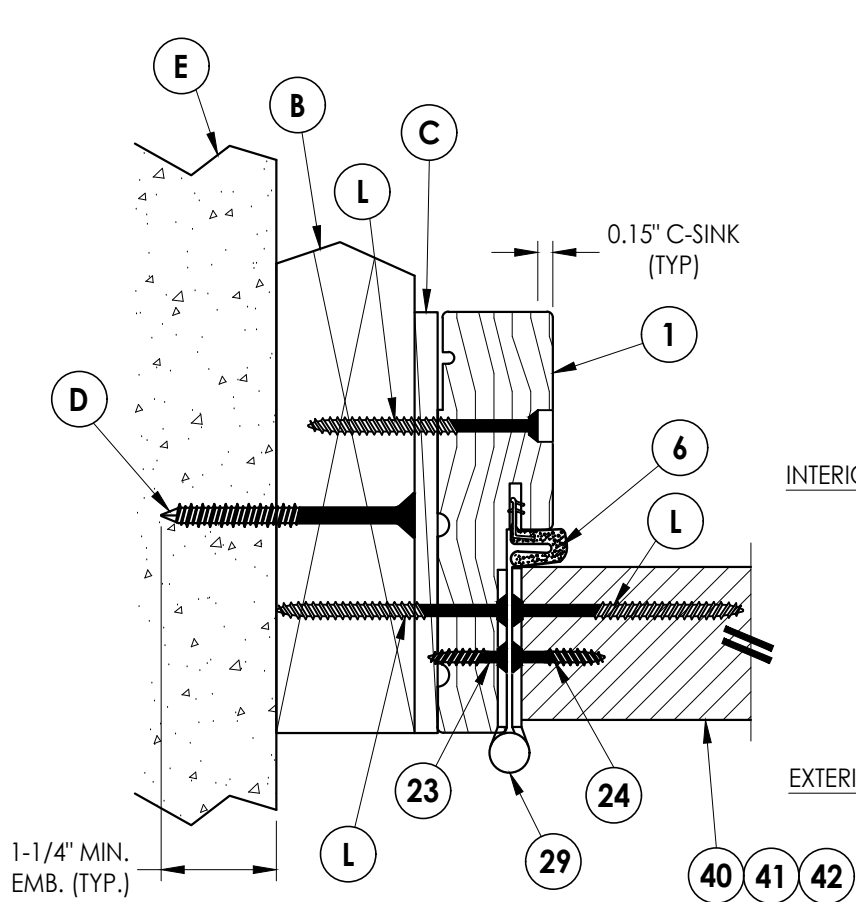


ELEVATION
OXO

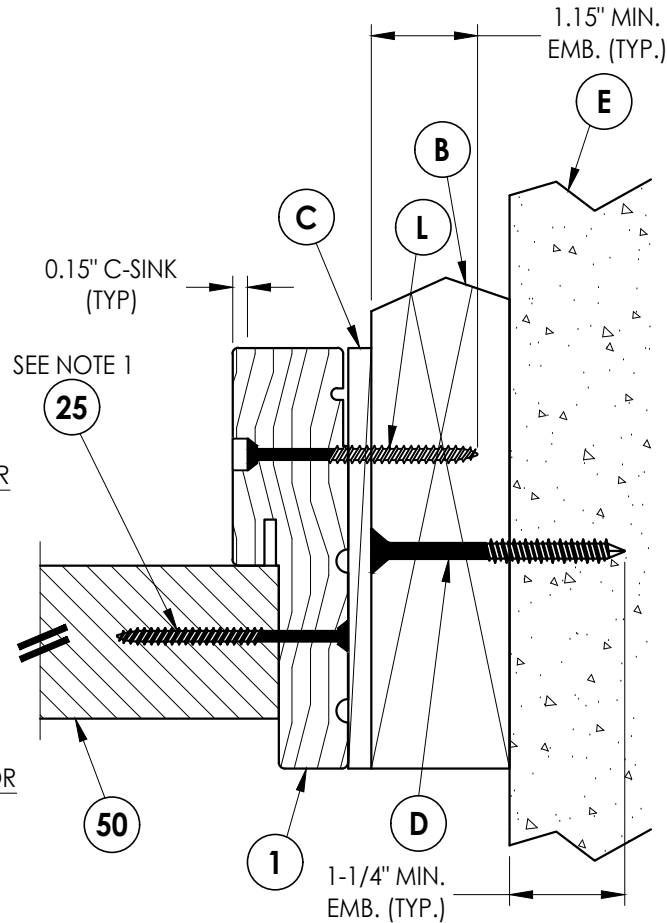
HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)	

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA TRU FIBERGLASS DOOR		PART OR ASSEMBLY: ELEVATIONS	
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020)	FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 8/10/16			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20470.15			
SHEET 4 OF 14			

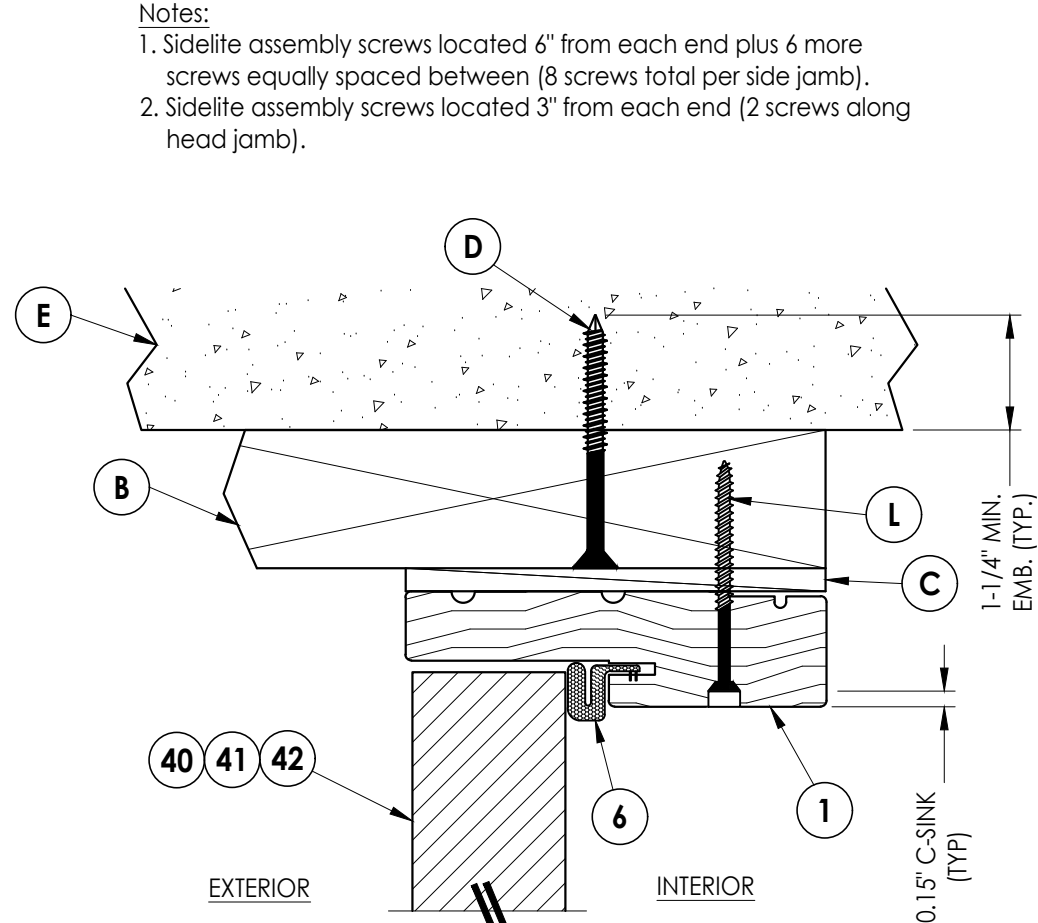
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



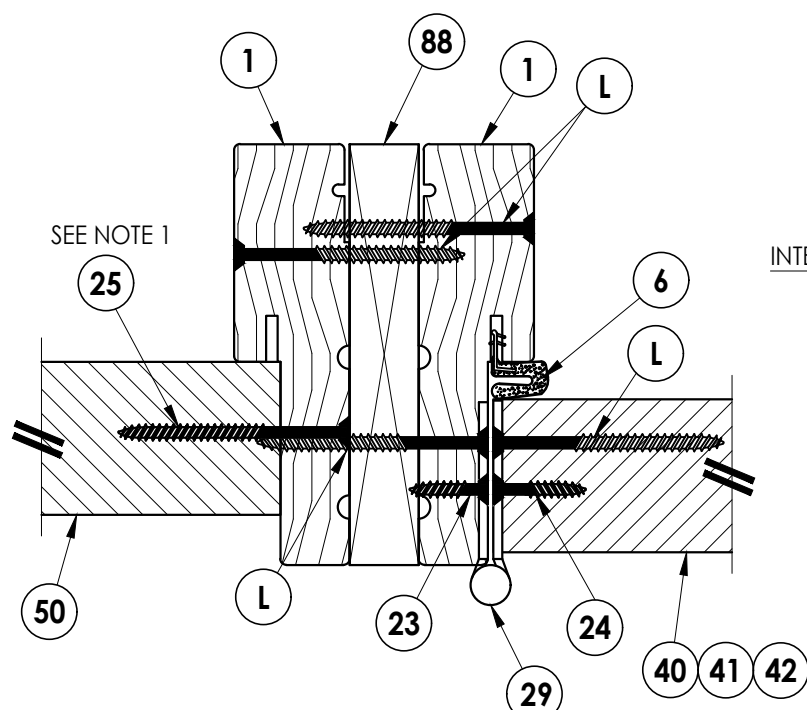
1 **HORIZONTAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



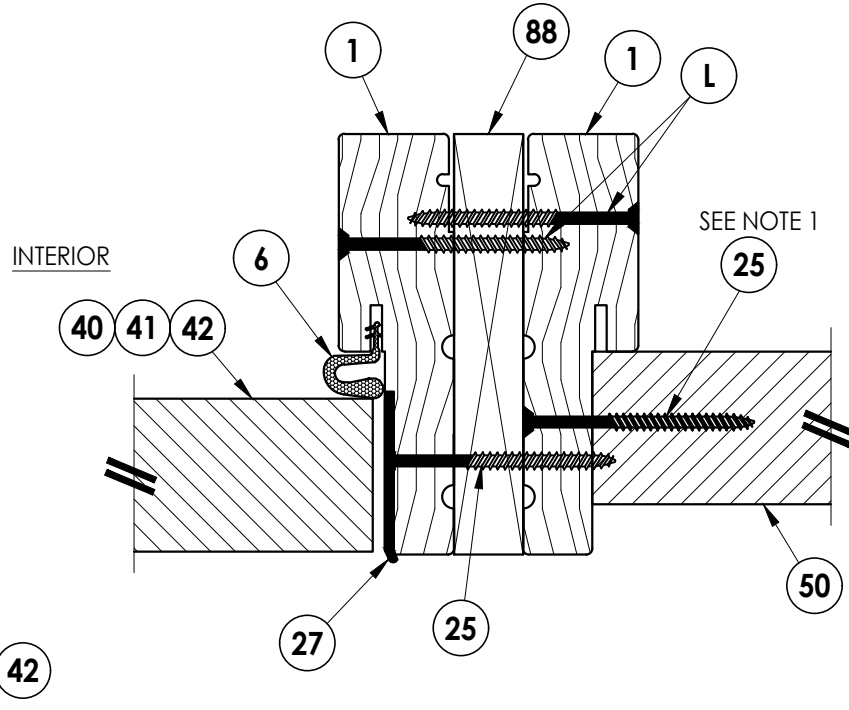
2 **HORIZONTAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



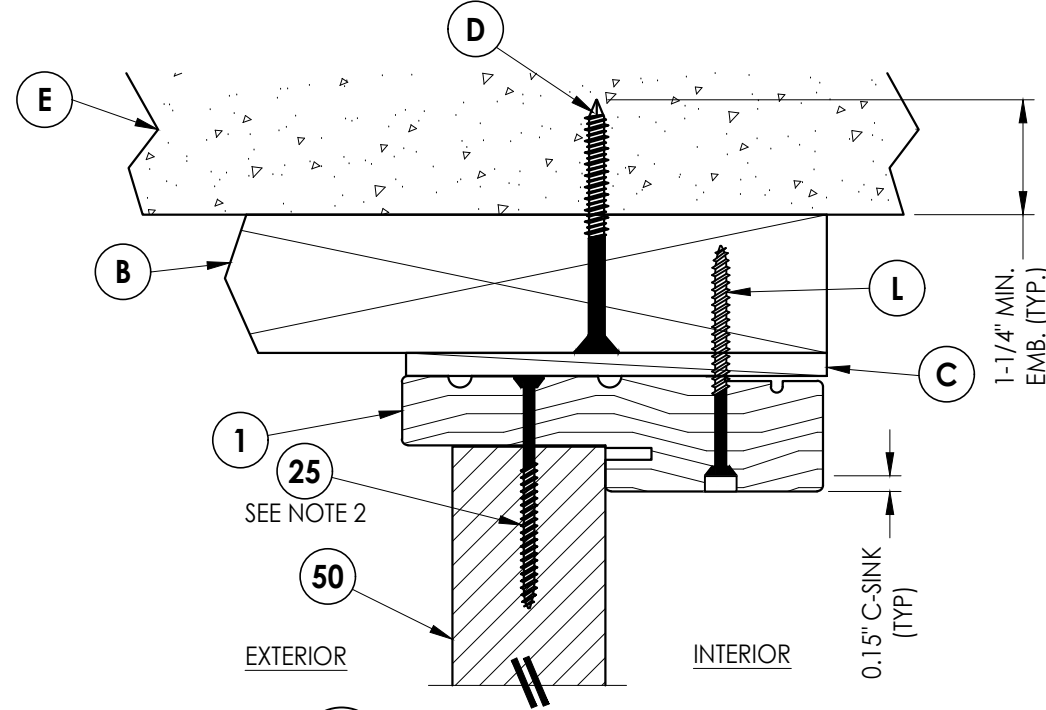
3 **VERTICAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



5 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



6 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



4 **VERTICAL CROSS SECTION**
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)

- Notes:
1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS	BY
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC	LFS
2	7/22/20	UPDATE TO 7TH ED (2020) FBC	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC	JK

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

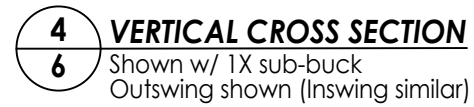
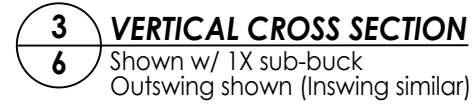
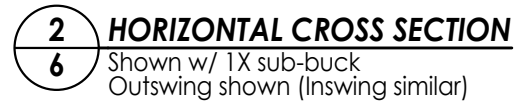
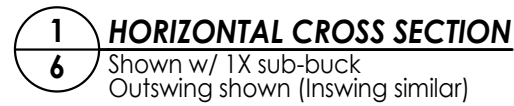
CHK. BY: LFS

DRAWING NO.:

FL-20470.15

SHEET 5 OF 14

1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).

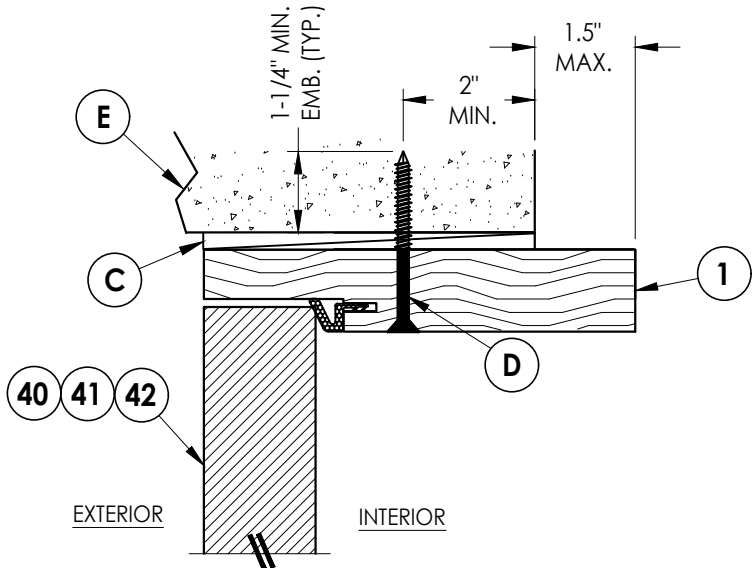


DATE:	8/10/16
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-20470.15
SHEET	6 OF 14

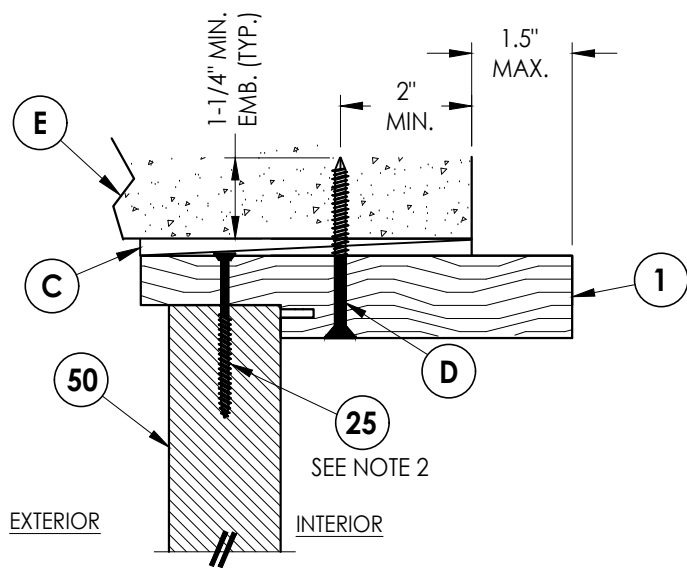
R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

PORT OR ASSEMBLY:

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg

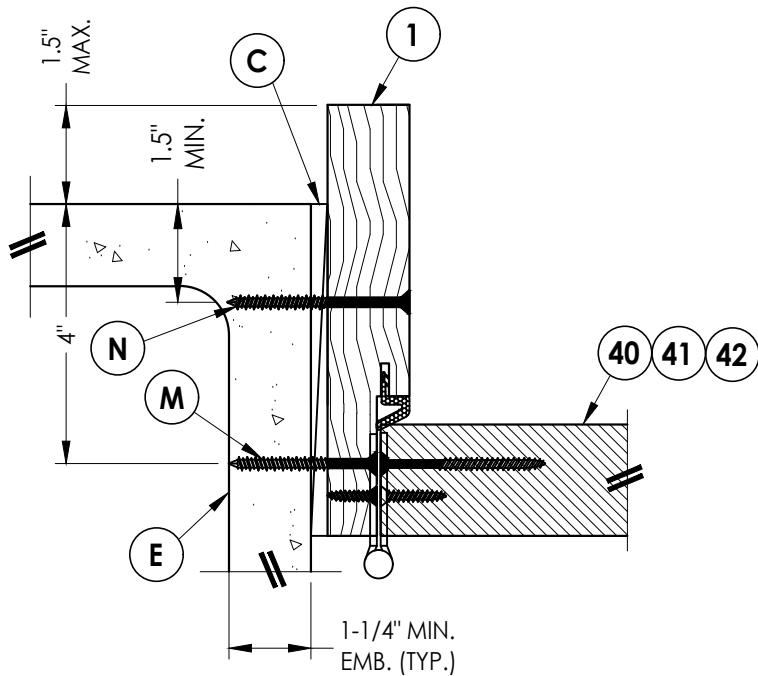


3 HORIZONTAL CROSS SECTION
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

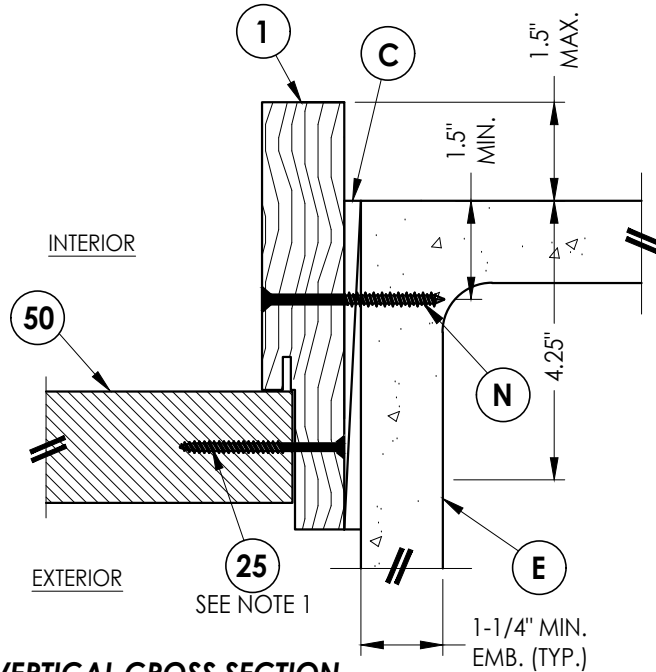


4 VERTICAL CROSS SECTION
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

- Notes:
1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end (2 screws along head jamb).



1 HORIZONTAL CROSS SECTION
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



2 VERTICAL CROSS SECTION
7 Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK
NO.	DATE	BY

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

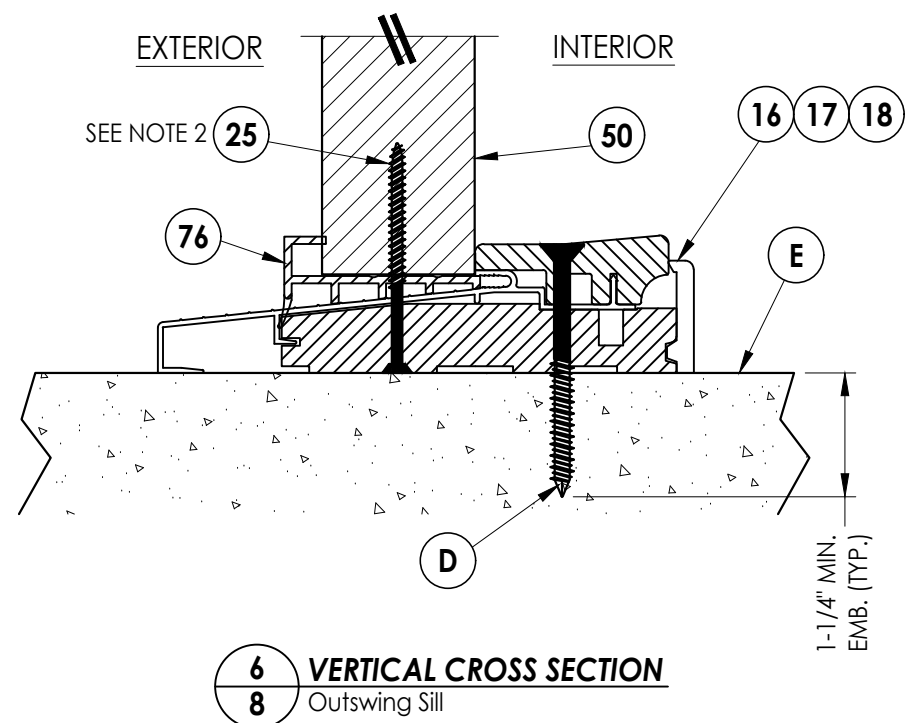
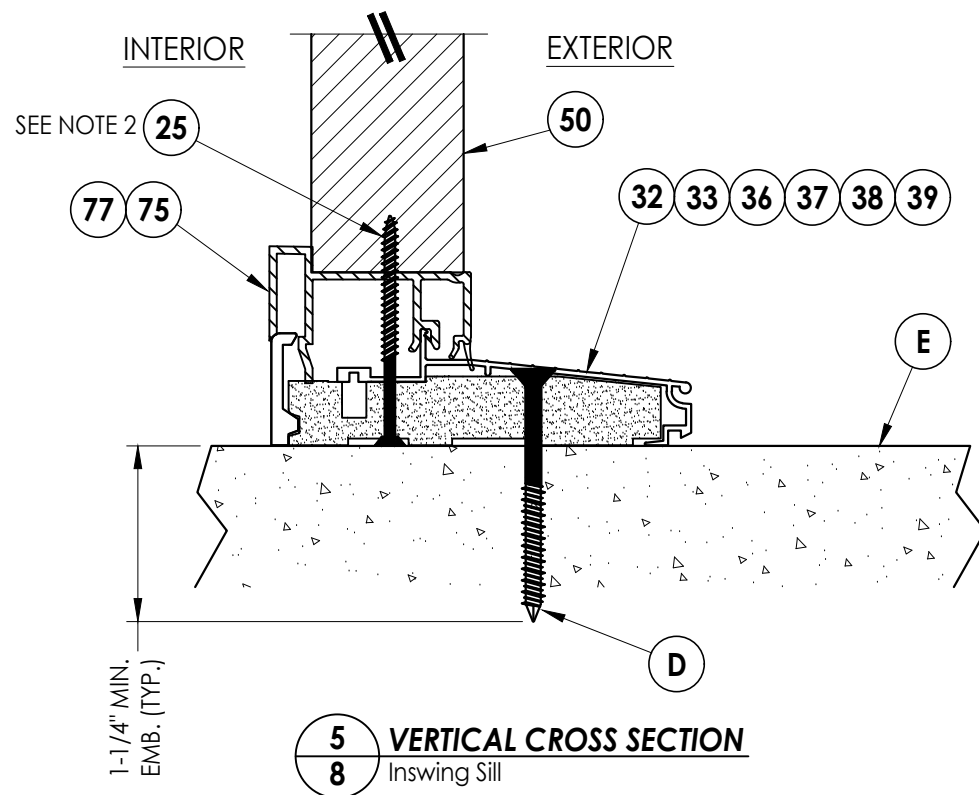
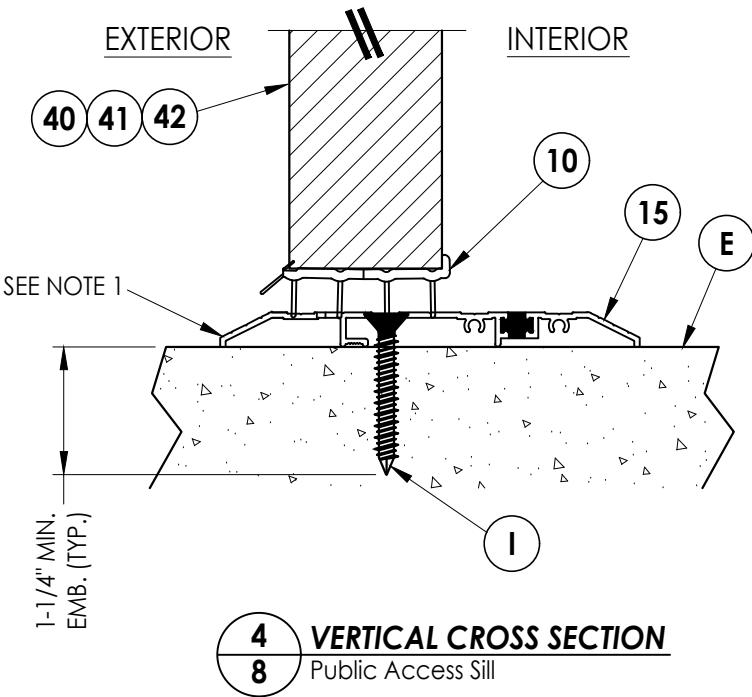
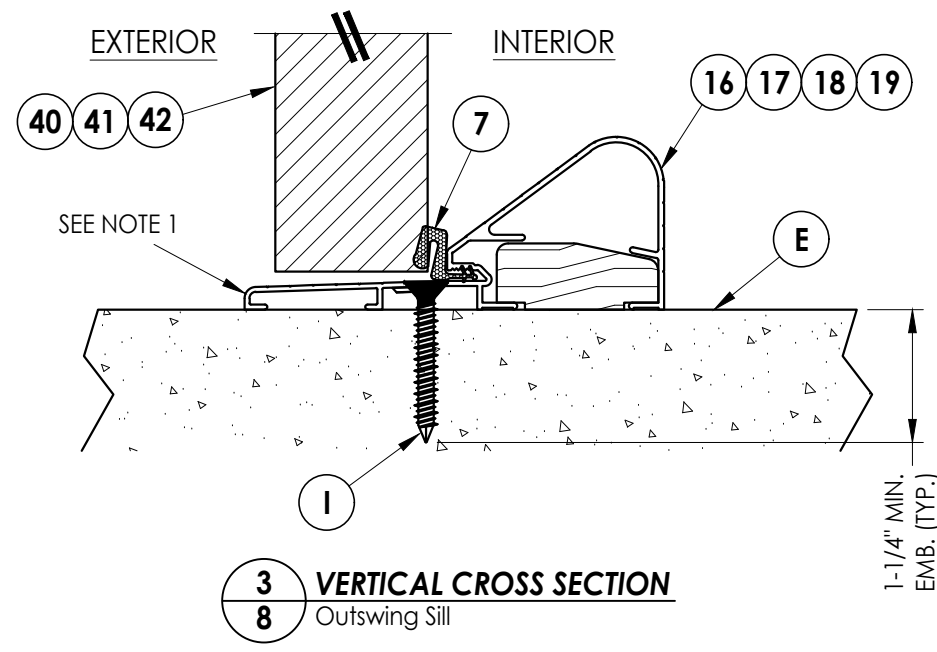
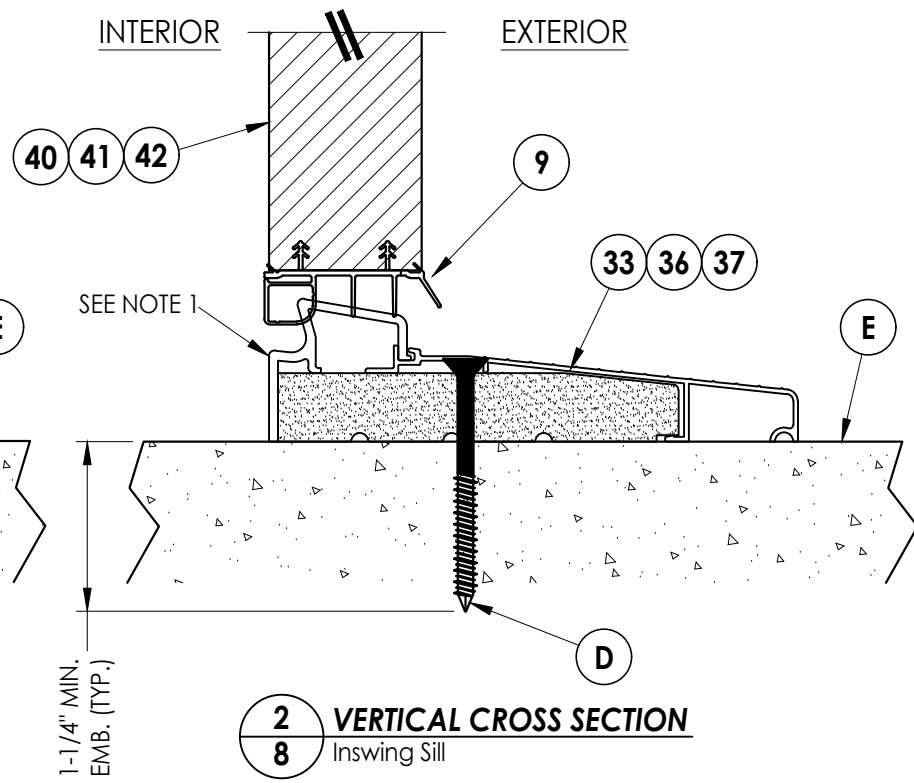
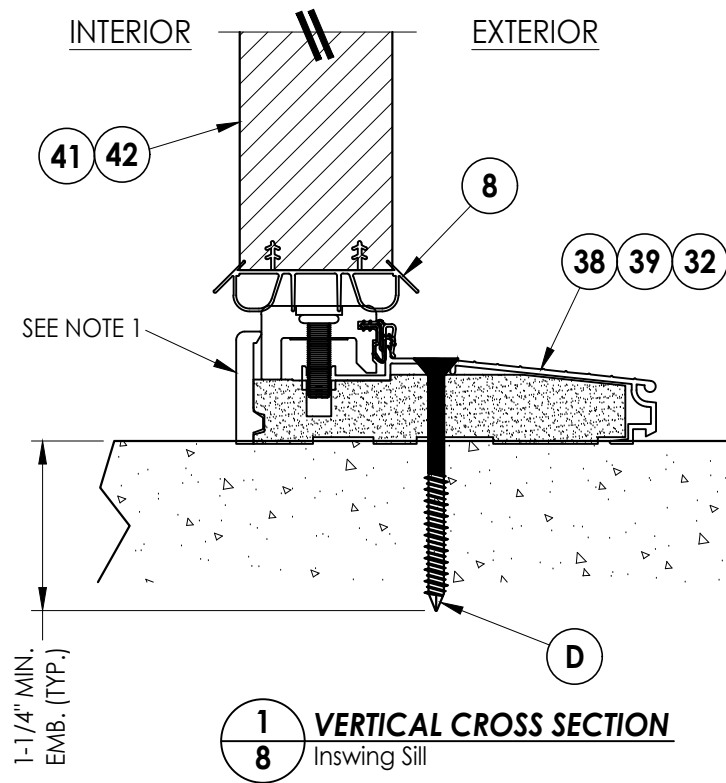
CHK. BY: LFS

DRAWING NO.:
FL-20470.15

SHEET 7 OF 14

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg

- Notes:
1. Sill Item #'s 16, 32, 33, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item #'s 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pfh screws at each end.
Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/22/20	UPDATE TO 7th ED. (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 8/10/16

SCALE: N.T.S.

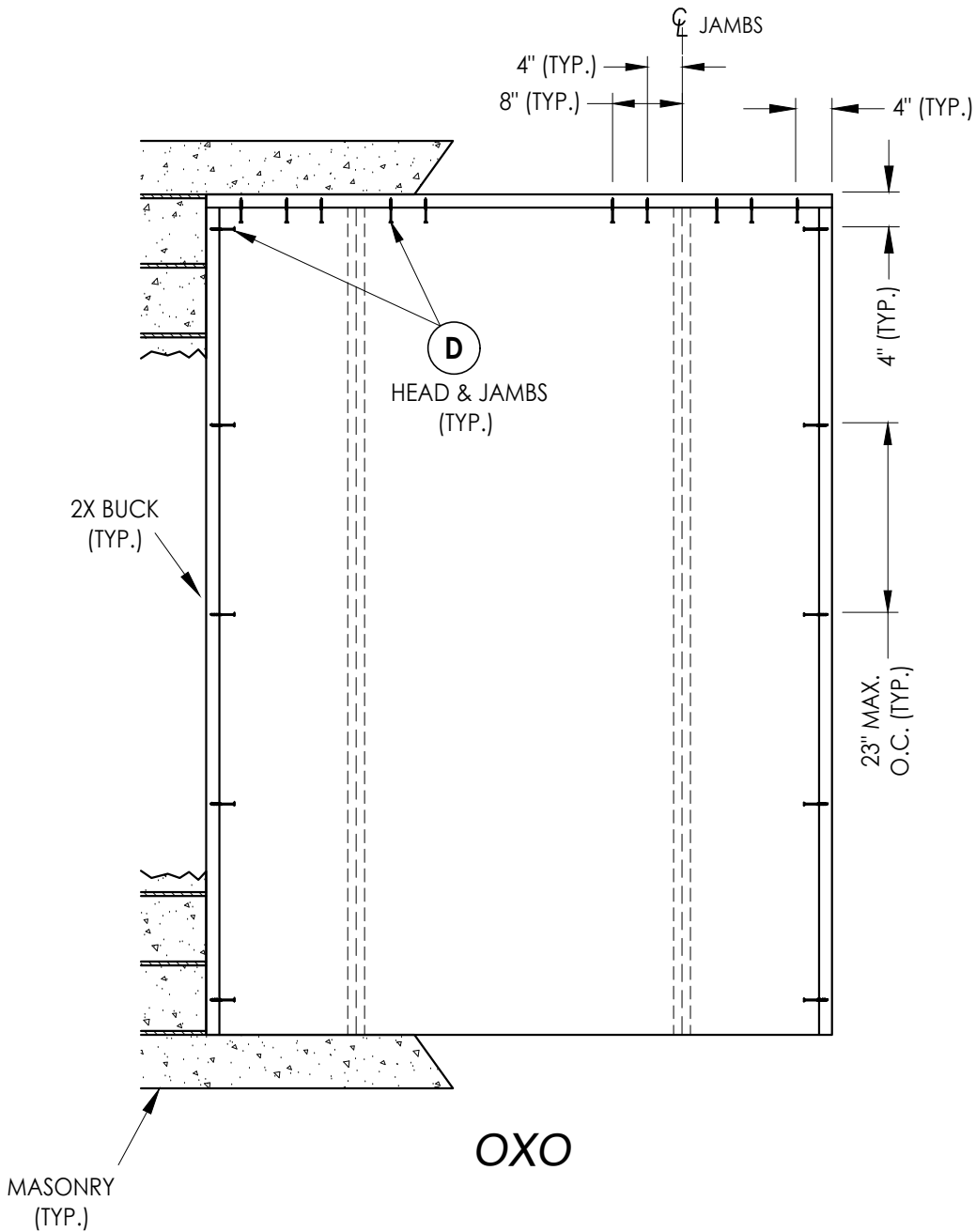
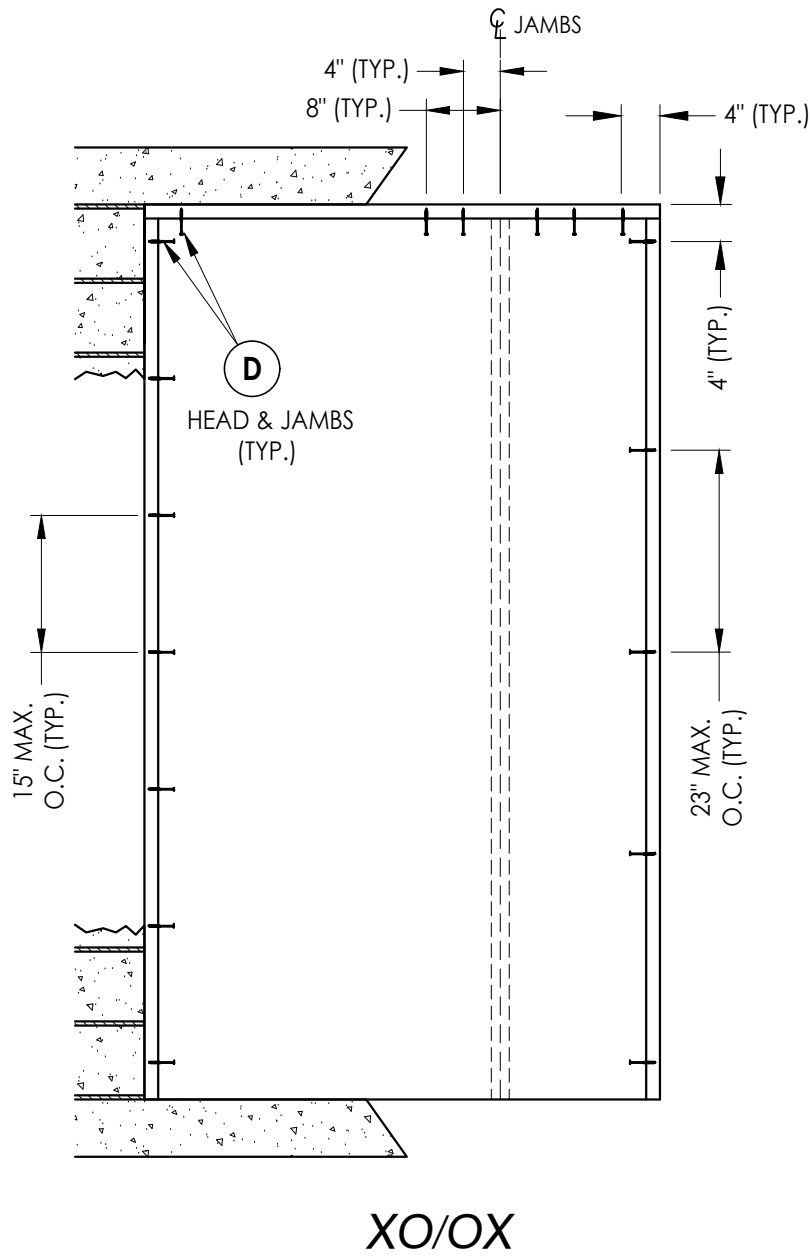
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-20470.15

SHEET 8 OF 14

Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



2X BUCK ANCHORING

NO.		DATE	REVISIONS	
3	7/25/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	7/22/20	UPDATE TO 7th ED (2020)	FBC	LFS
1	7/14/17	UPDATE TO 6TH ED. (2017)	FBC	JK
NO.		DATE	BY	

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

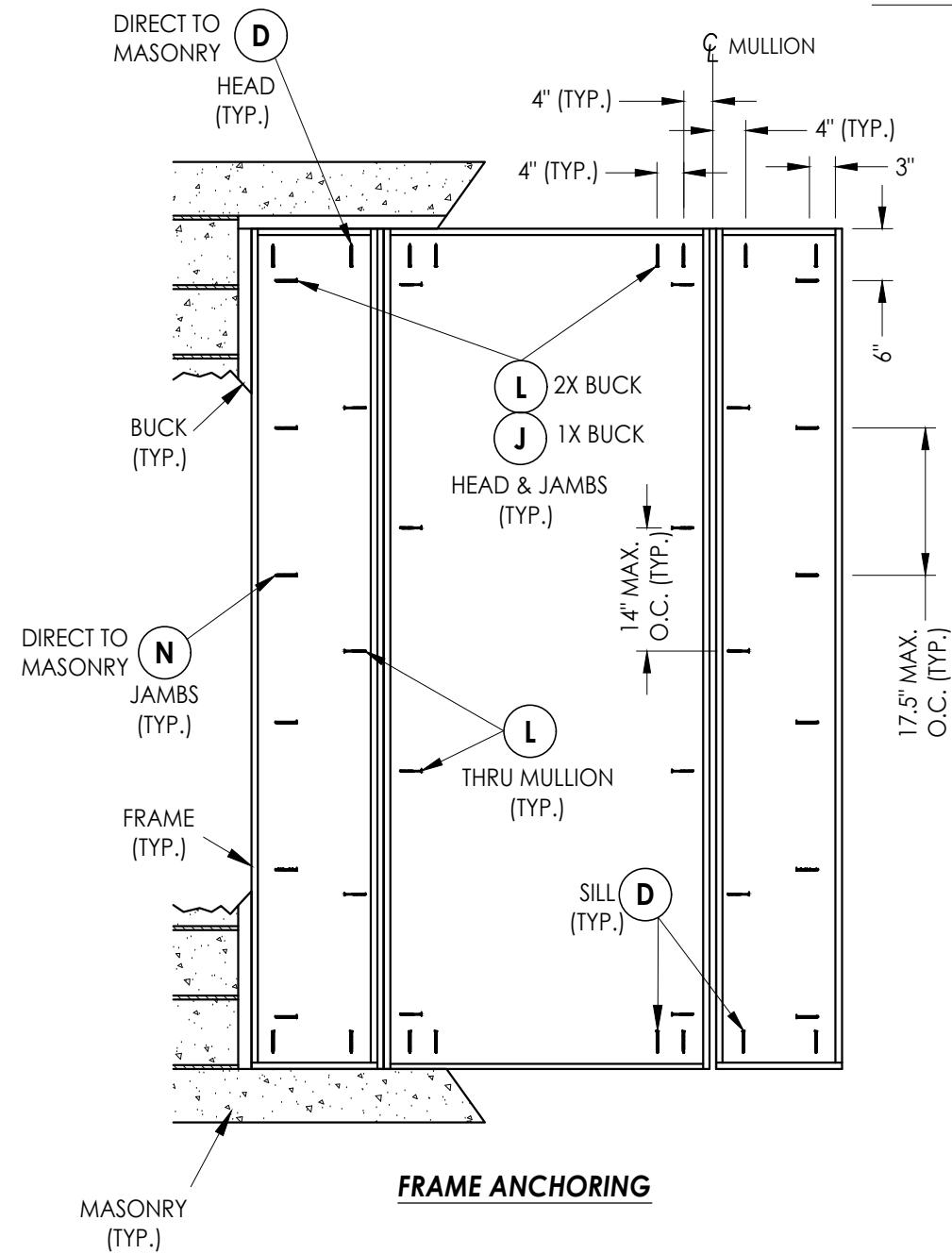
FL-20470.15

SHEET 9 OF 14

PRODUCT:	
THERMA TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:	
BUCK ANCHORING	

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



FRAME ANCHORING

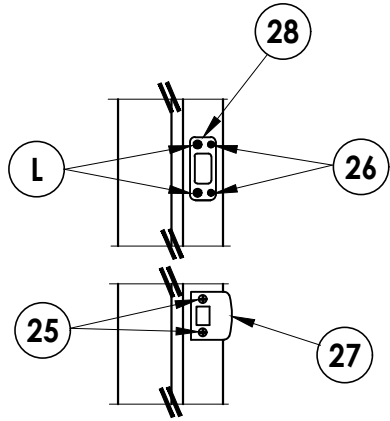
FRAME ANCHORING

[illegible]

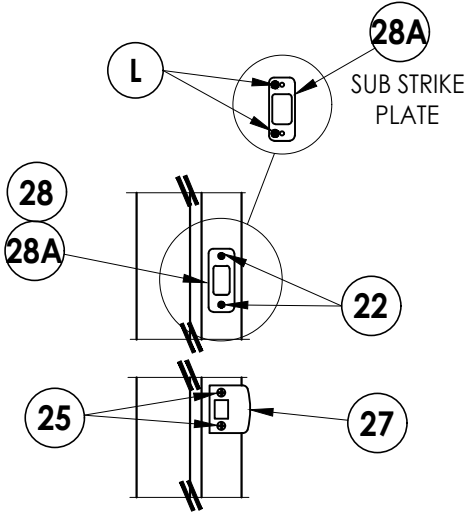
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

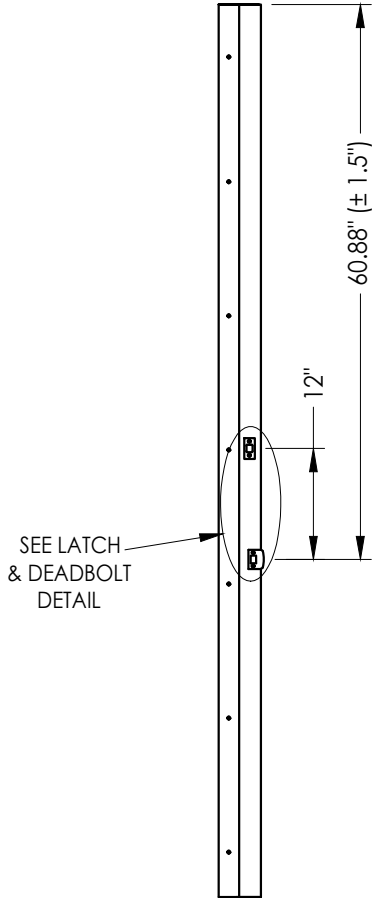
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



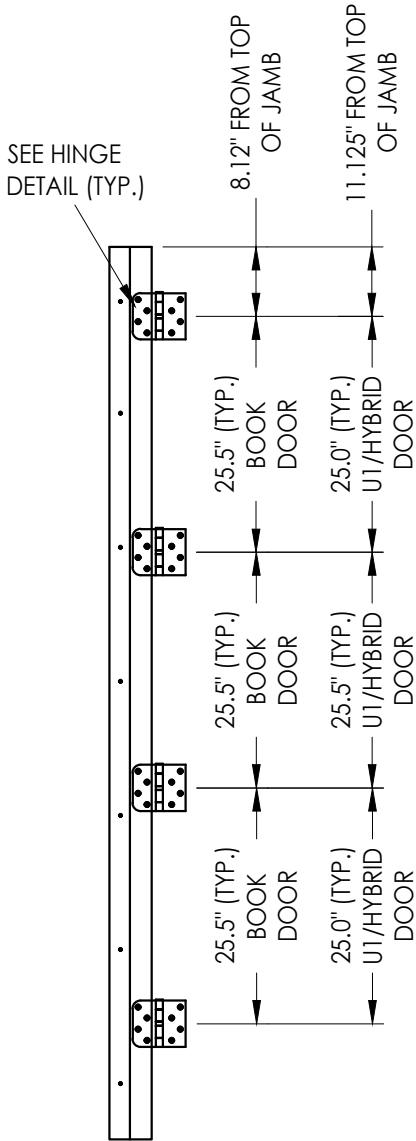
LATCH & DEADBOLT DETAIL
Kwikset



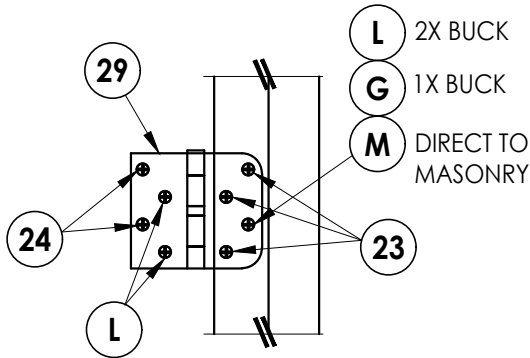
LATCH & DEADBOLT DETAIL
Schlage



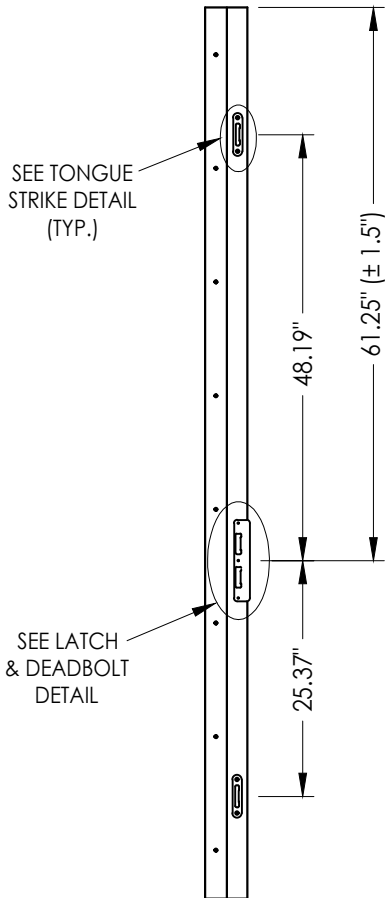
STRIKE JAMB
Latch and Deadbolt



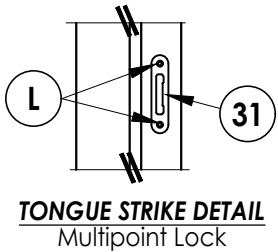
HINGE JAMB



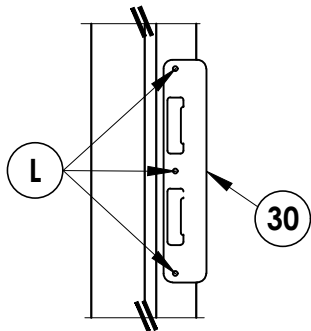
HINGE DETAIL



STRIKE JAMB
Multipoint Lock



TONGUE STRIKE DETAIL
Multipoint Lock



LATCH & DEADBOLT DETAIL
Multipoint Lock

LATCH & DEADBOLT STRIKE DETAILS

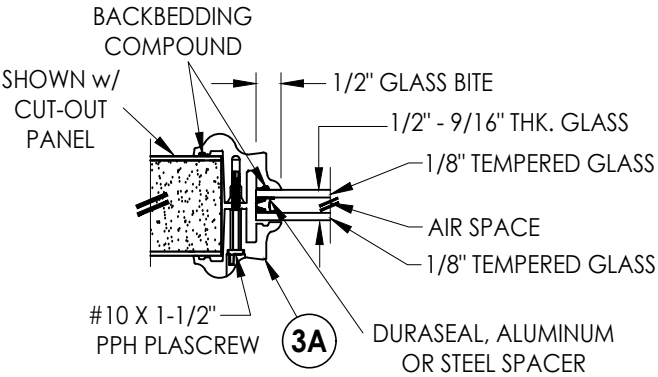
MULTIPOINT LOCK STRIKE DETAILS

DATE		NO.		DATE	
8/10/16		3		7/25/23	
N.T.S.		2		7/22/20	
JK		1		7/14/17	
LFS		NO.		DATE	
FL-20470.15		11		OF 14	

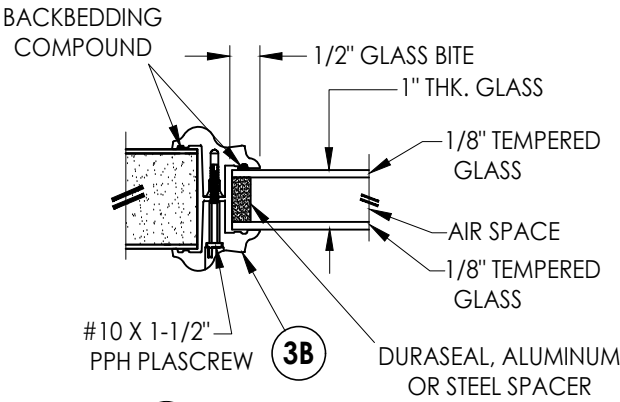
PRODUCT:		PART OR ASSEMBLY:	
THERMA TRU FIBERGLASS DOOR		HARDWARE DETAILS	

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
---	--	--	--

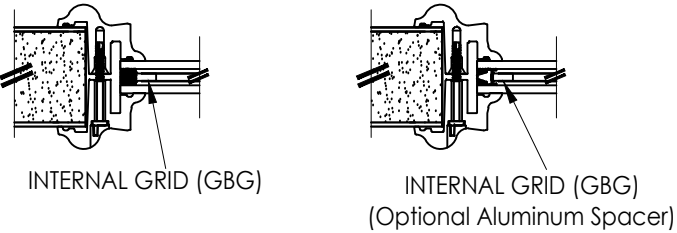
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



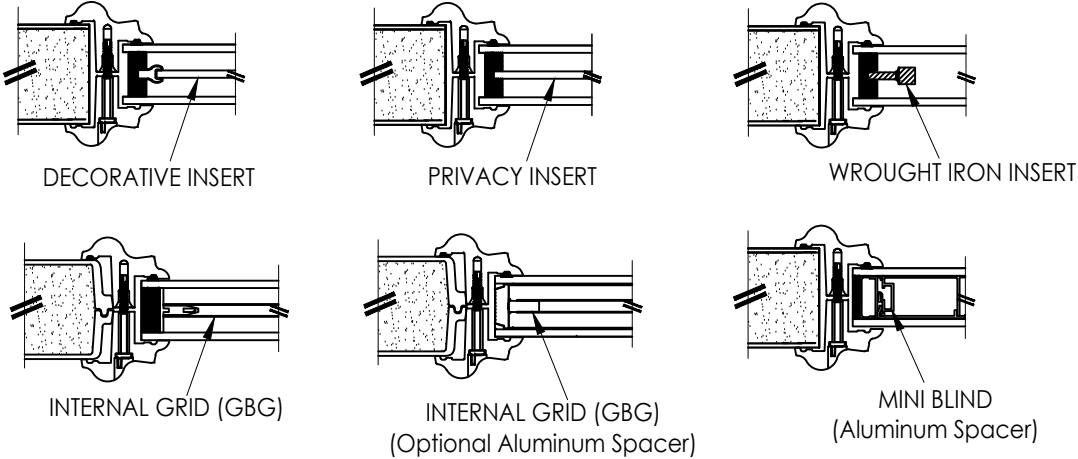
G1 GLAZING DETAIL
BTS Lite Frame
Sidelites



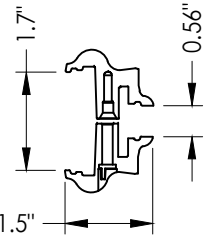
G2 GLAZING DETAIL
BTS Lite Frame
Sidelites



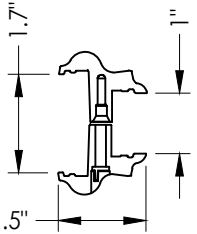
9/16" INSULATED GLASS INSERT OPTIONS



1" INSULATED GLASS INSERT OPTIONS



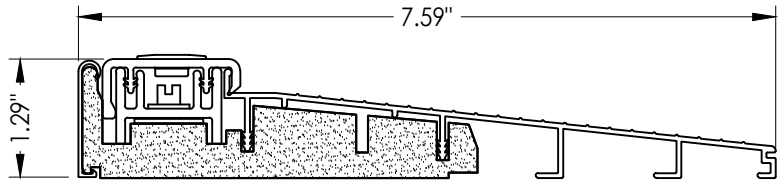
3A BTS LITE FRAME
1/2" & 9/16" Glazing



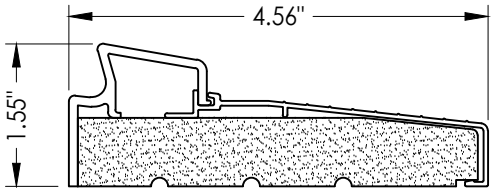
3B BTS LITE FRAME
1" Glazing

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		GLAZING DETAILS	

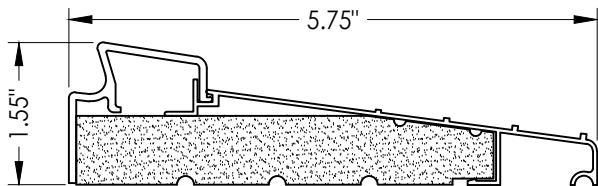
Z:\2023 FBC Drawings\Therma-Tru\FL-20470 R4\FL-20470.13-16.dwg



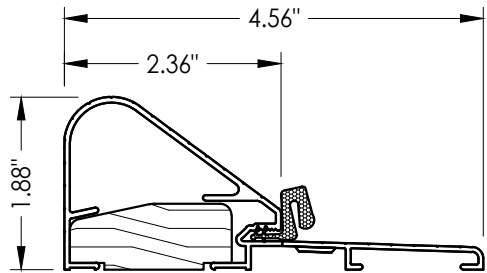
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



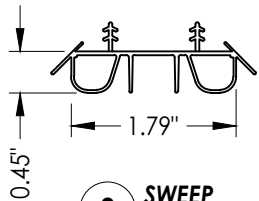
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



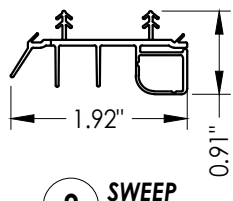
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



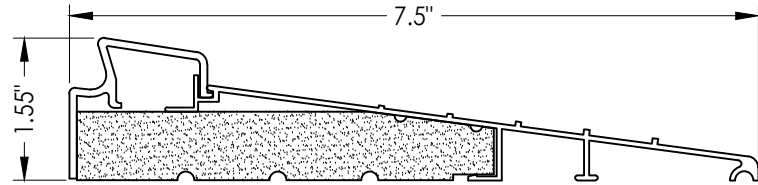
19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



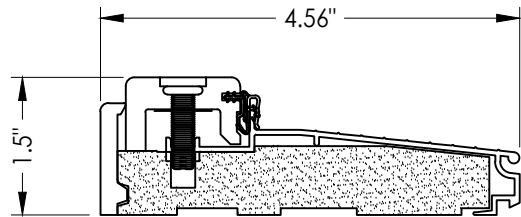
8 SWEEP



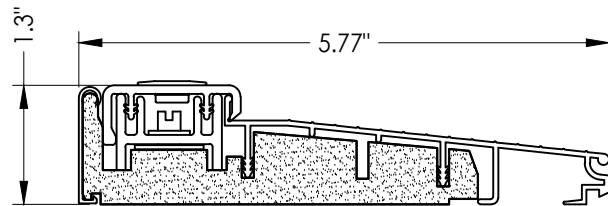
9 SWEEP



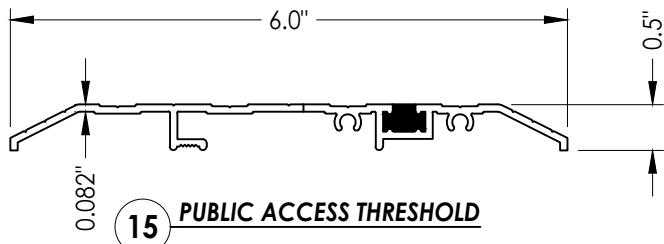
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



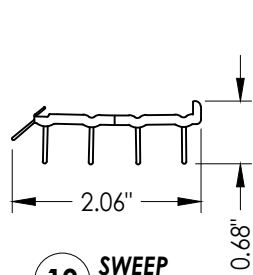
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



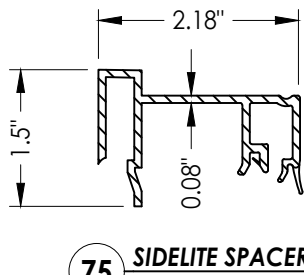
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



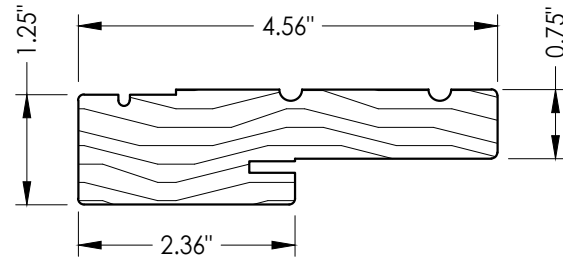
15 PUBLIC ACCESS THRESHOLD



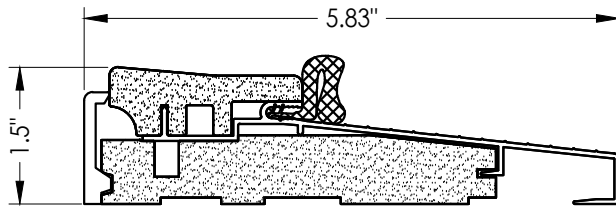
10 SWEEP



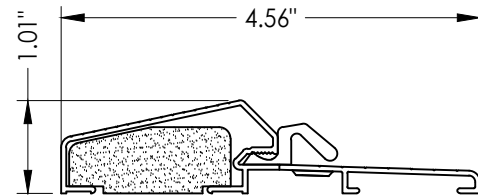
75 SIDELITE SPACER
Inswing



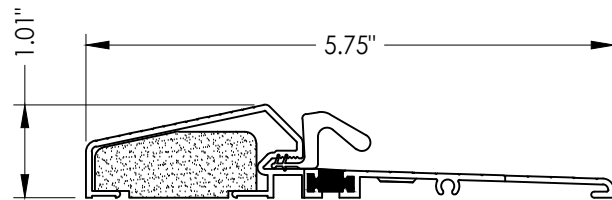
1 WOOD JAMB



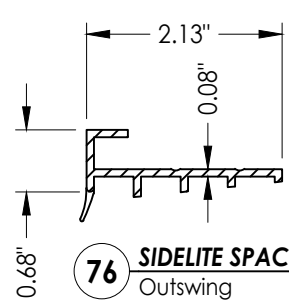
16 OUTSWING THRESHOLD
Composite Sill



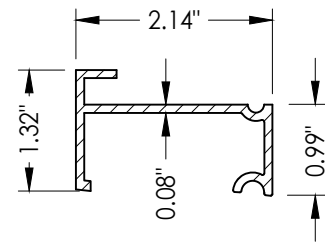
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
THERMA TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS
3	7/25/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/22/20	UPDATE TO 7th ED (2020) FBC LFS
1	7/14/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 8/10/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-20470.15

SHEET 13 OF 14

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"

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

DATE: 8/10/16		PRODUCT: THERMA TRU FIBERGLASS DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY:	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-20470.15		BILL OF MATERIALS	
SHEET 14 OF 14			

Lyndon F. Schmidt
P.E. No. 43409

REV BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33593

P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813