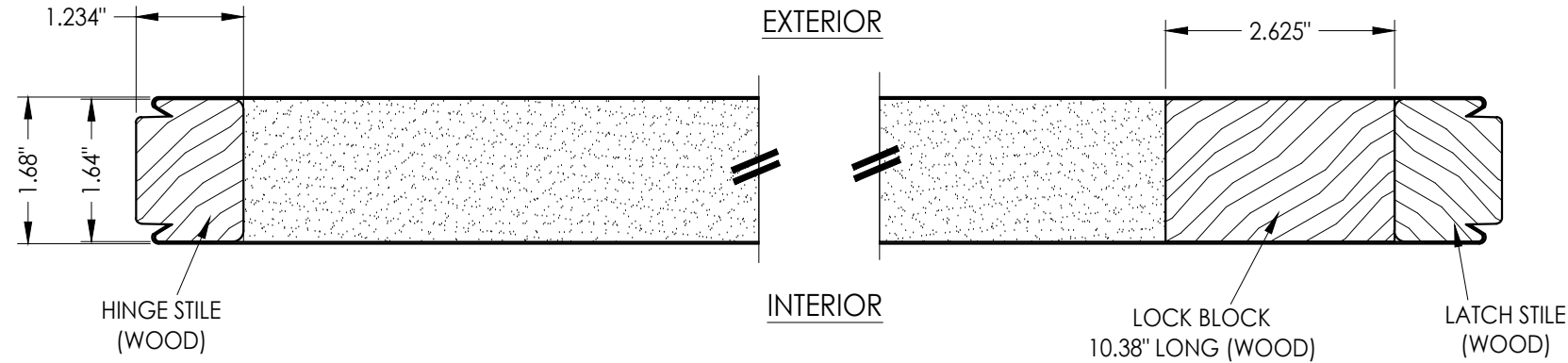
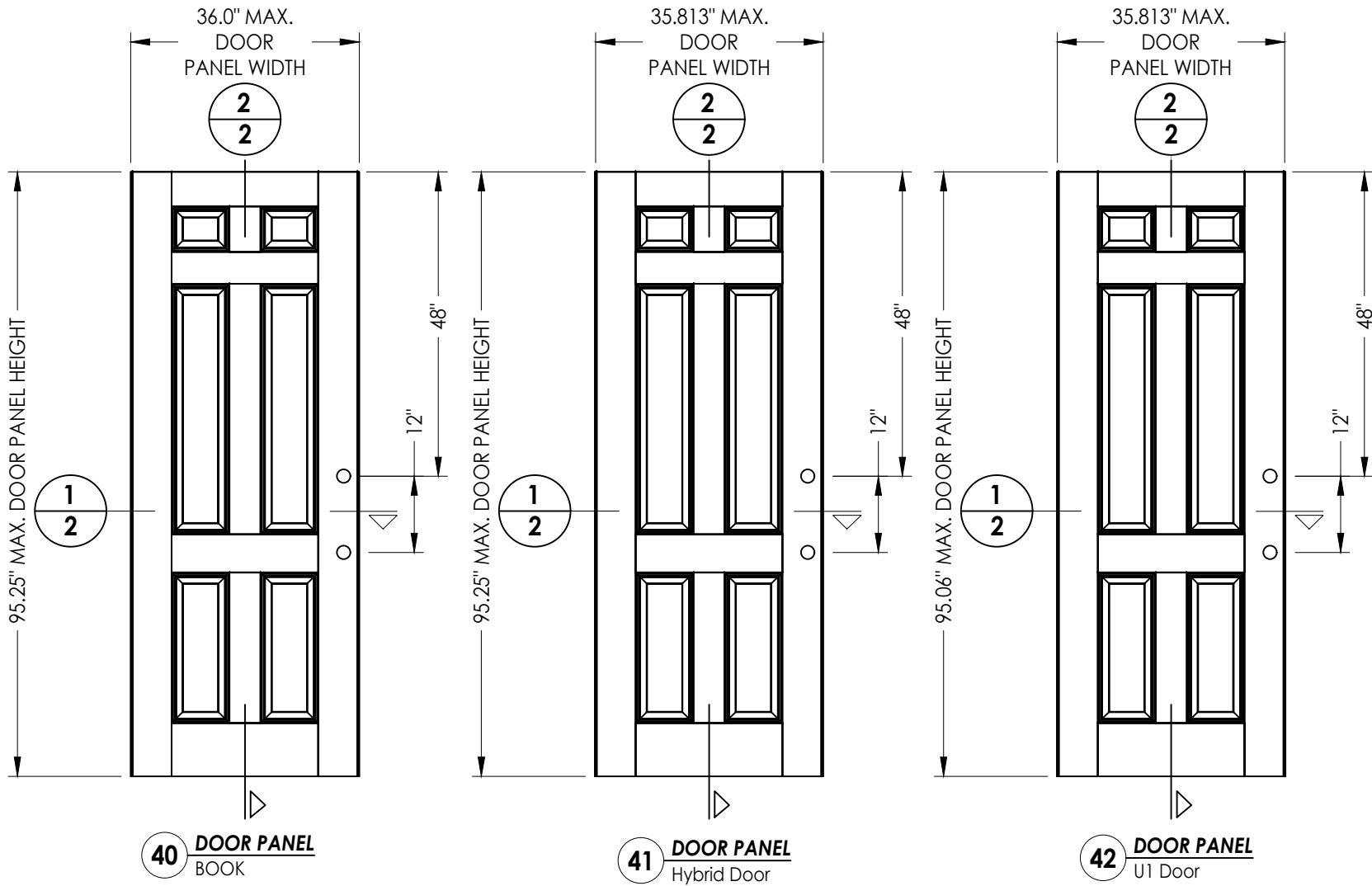


Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.4-6.dwg

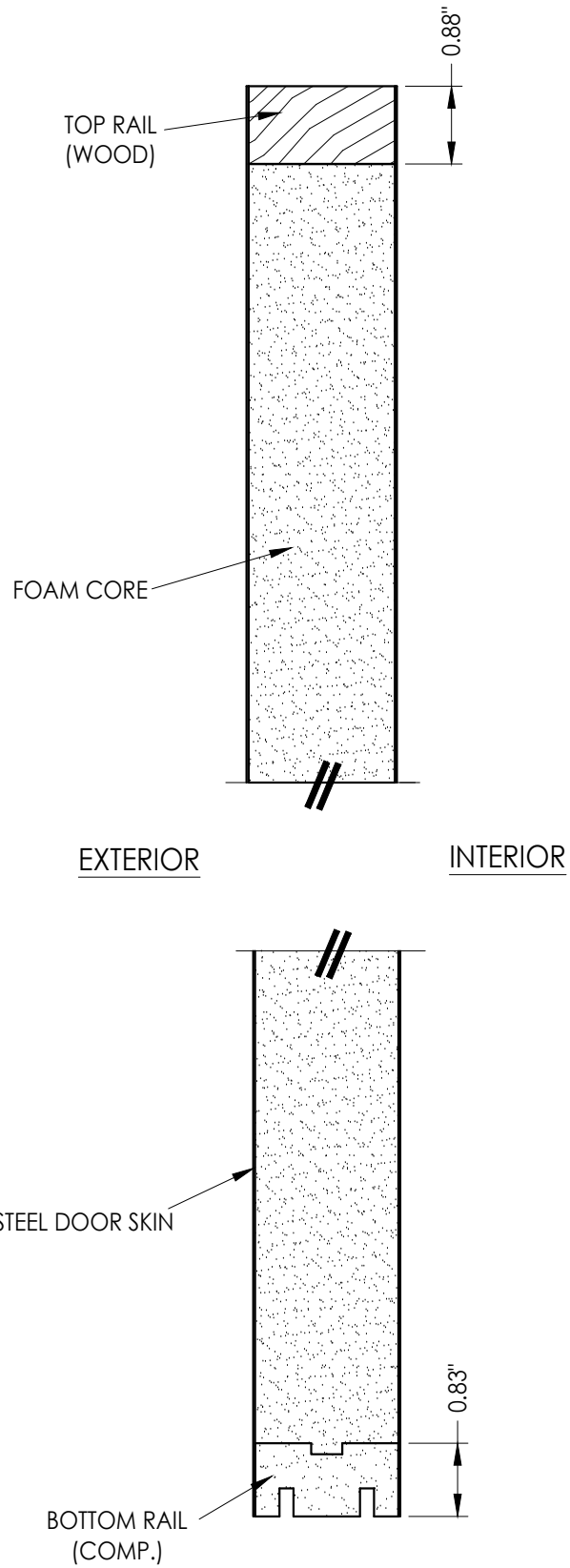


1
2 **HORIZONTAL CROSS SECTION**



"TRADITIONS" SERIES DOOR PANEL

STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, Fy = 48,470 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)



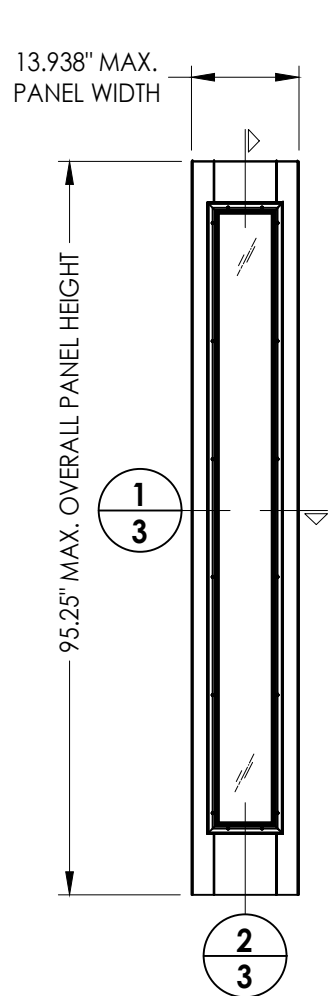
2
2 **VERTICAL CROSS SECTION**

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

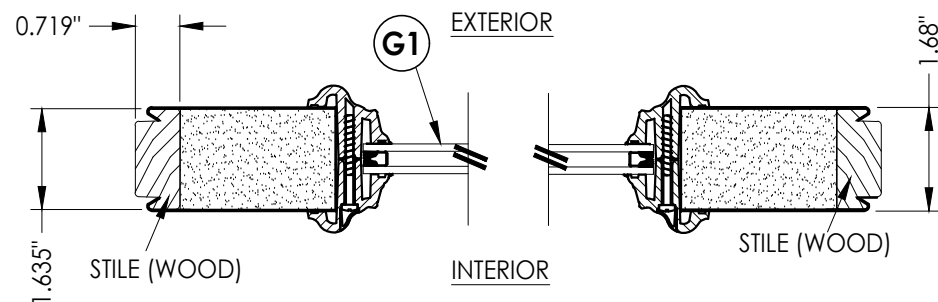
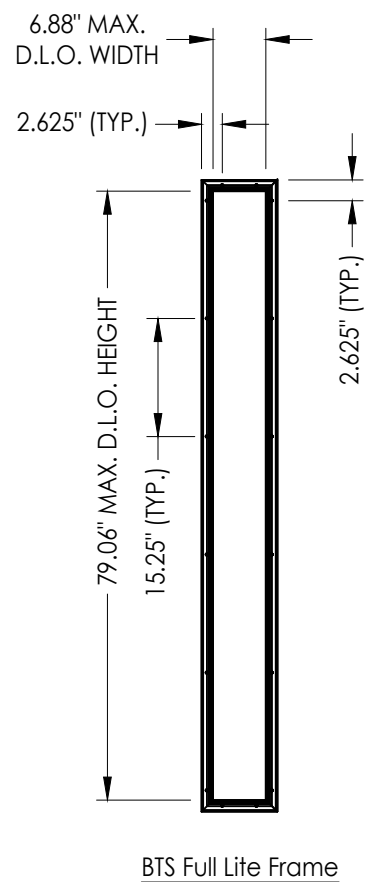
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		DOOR PANEL DETAILS	
		LFS	BY
		DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC	
1	7/14/20	UPDATE TO 7TH ED (2020) FBC	
DATE		NO.	BY
10/12/17			
SCALE:		N.T.S.	
DWG. BY:		JK	
CHK. BY:		LFS	
DRAWING NO.:		FL-21131.5	
SHEET		2 OF 13	

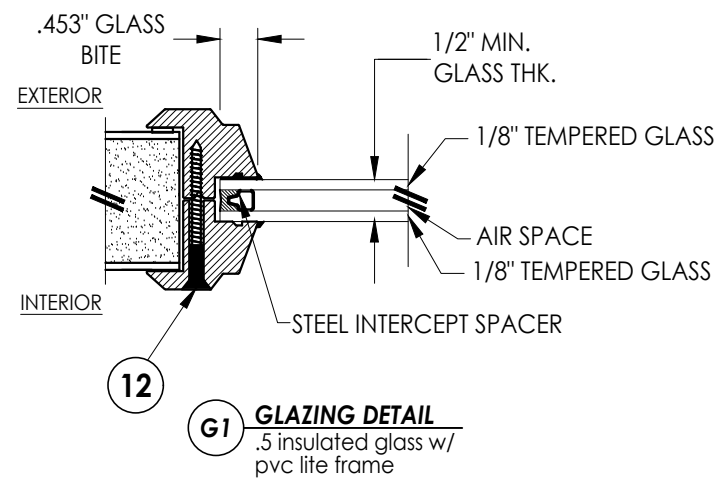
STEEL SKIN "TRADITIONS": 24 GA. (0.022" MIN. THICKNESS, $F_y = 48,470$ PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)
SIDELITE WOOD COMPONENTS: PINE ($SG \geq 0.42$)



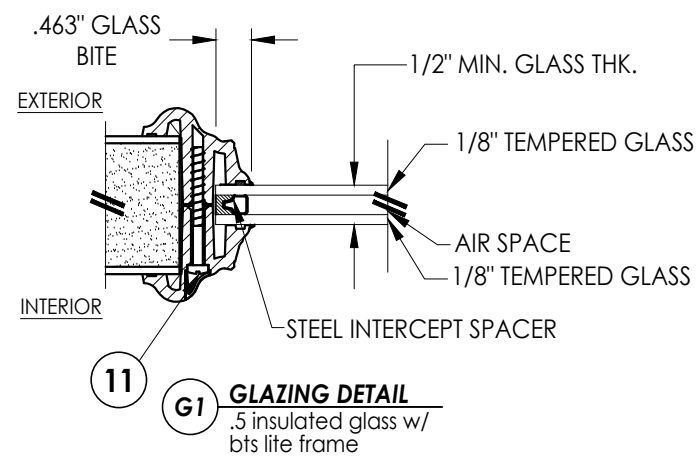
50 SIDELITE PANEL



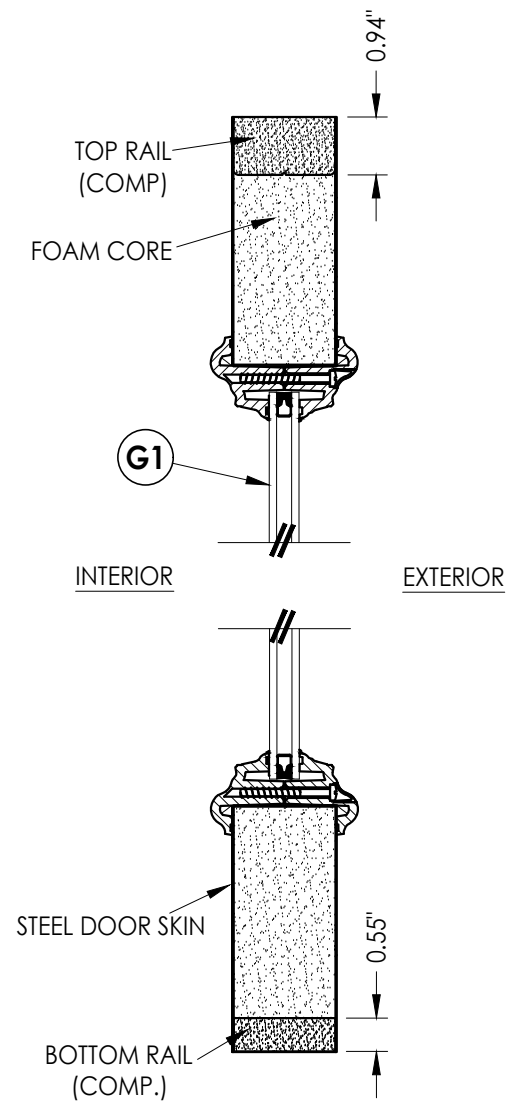
1 **HORIZONTAL CROSS SECTION**
3



G1 GLAZING DETAIL



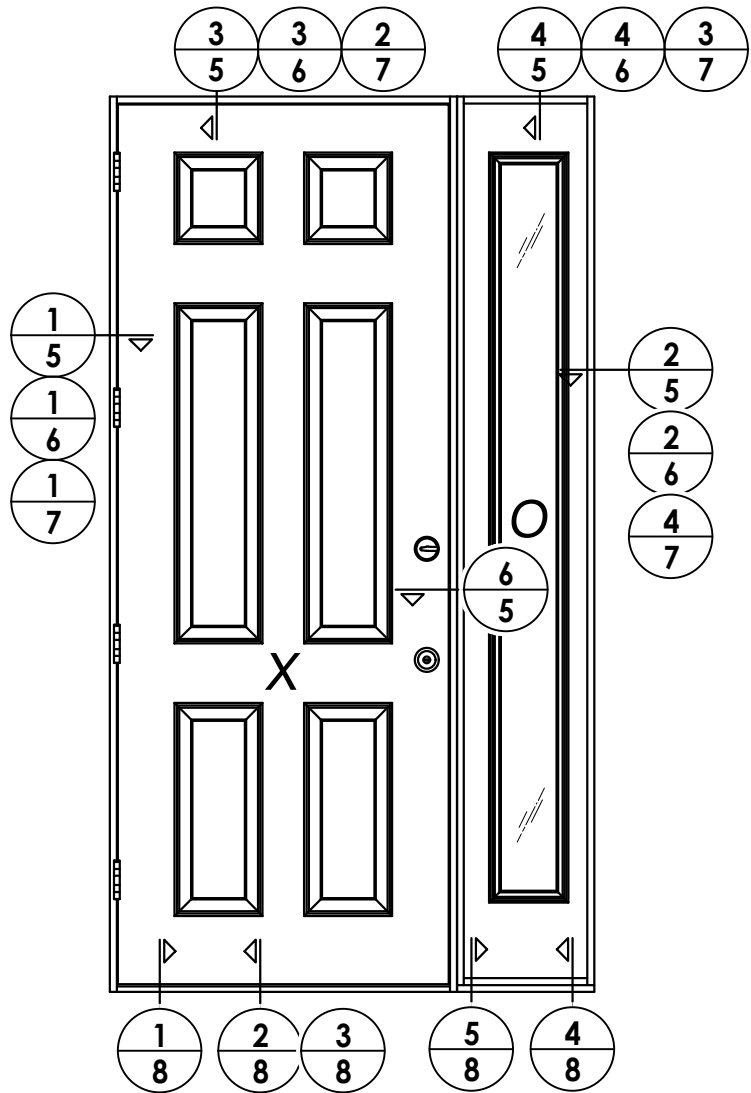
G1 GLAZING DETAIL



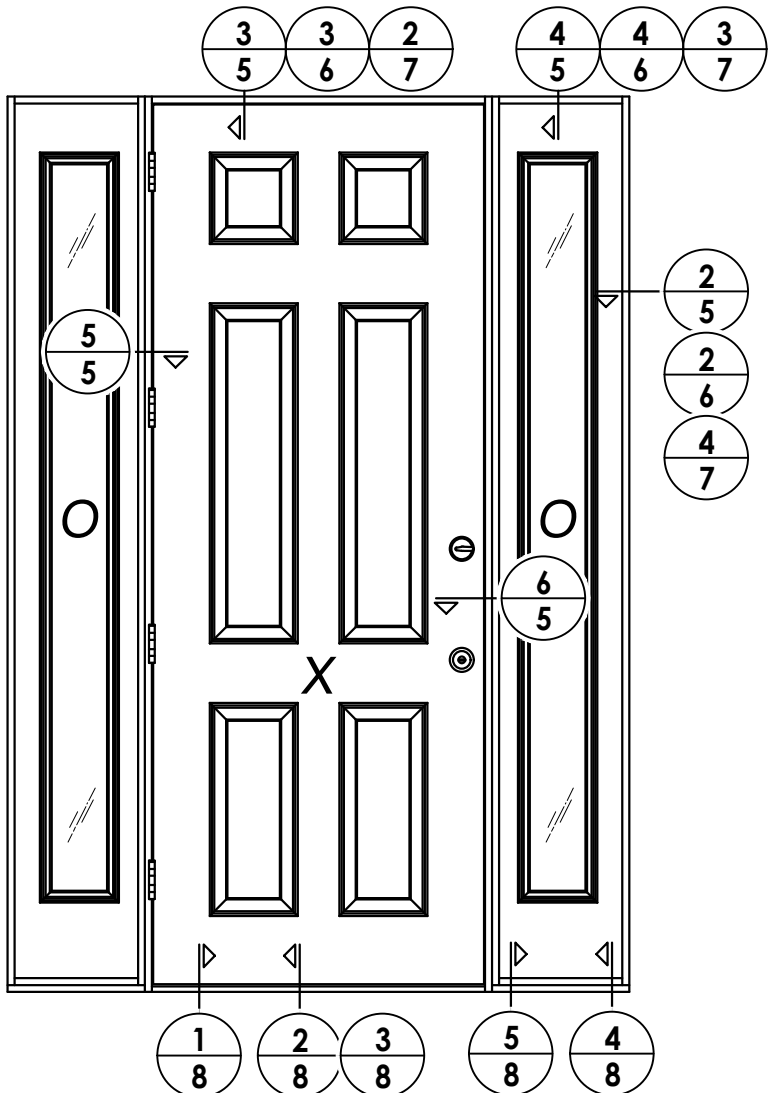
2 VERTICAL CROSS SECTION

DATE: 10/12/17		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU		Lyndon F. Schmidt	
DWG. BY: JK		STEEL DOOR		P.E. No. 43409	
CHK. BY: LFS		PART OR ASSEMBLY:		 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-21131.5		SIDELITE PANEL DETAILS			
SHEET 3 OF 13					
REVISONS					
NO.		DATE			
2		8/07/23		UPDATE TO 8TH ED. (2023) FBC LFS	
1		7/14/20		UPDATE TO 7TH ED (2020) FBC LFS	
				BY	

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ELEVATION
XO



ELEVATION
OXO

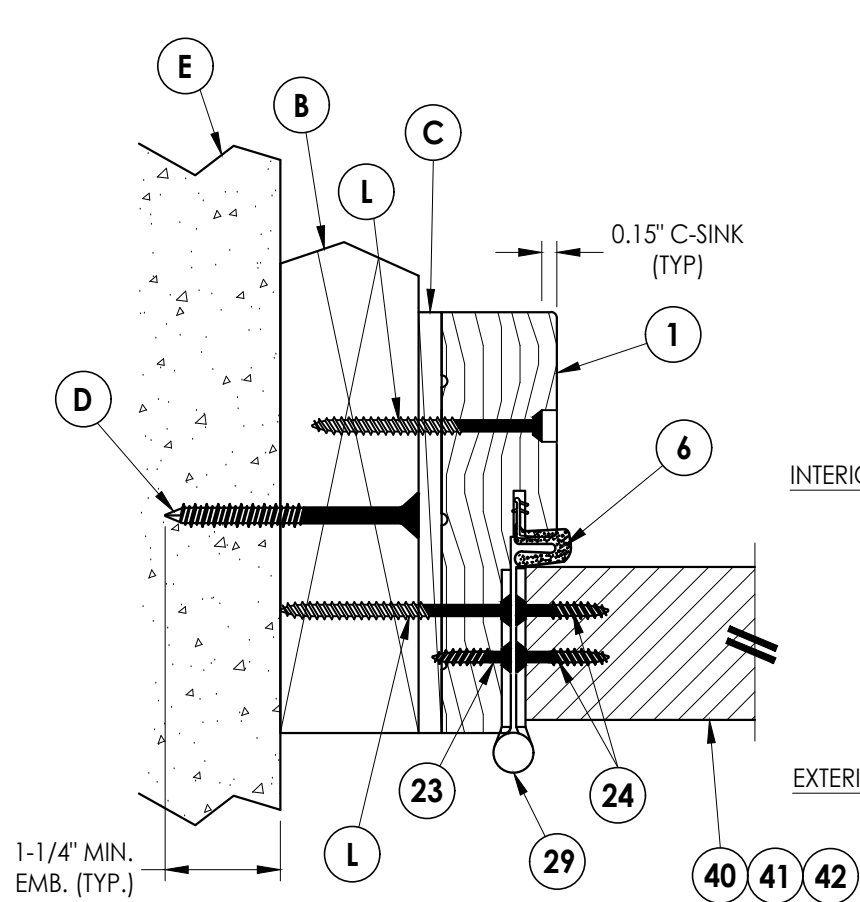


"TRADITIONS" Door Panel Options
Panel options shown are for illustration and are representative only
(similar opaque panel configurations are allowed)

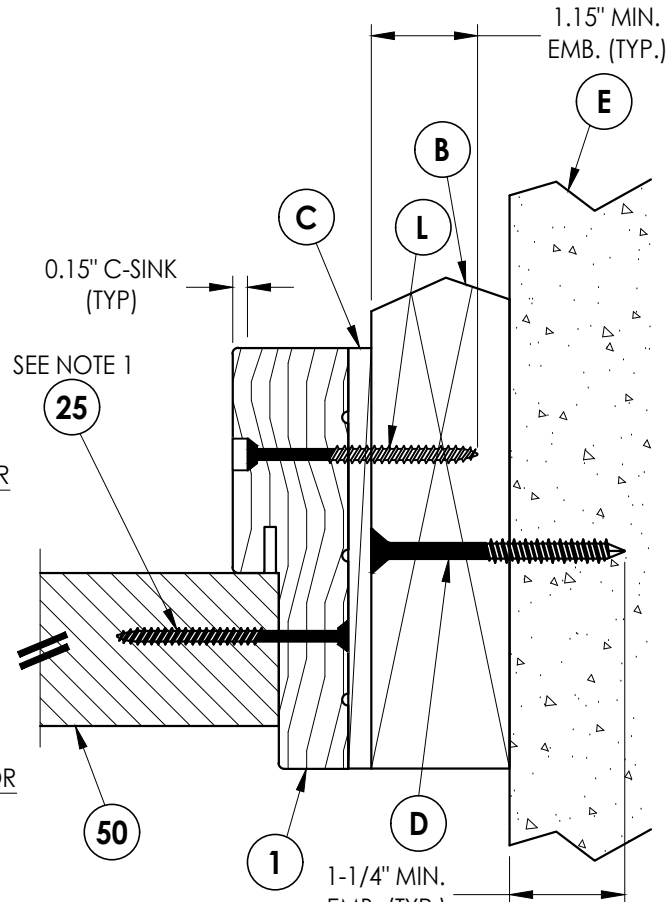
HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	KNOB:	F51
	DEADBOLT:	B60
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)

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 STEEL DOOR				PART OR ASSEMBLY: ELEVATIONS			
				LFS	FBC		
				LFS	FBC		
				NO.	DATE		
DATE: 10/12/17				REVISIONS			
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21131.5							
SHEET 4 OF 13							

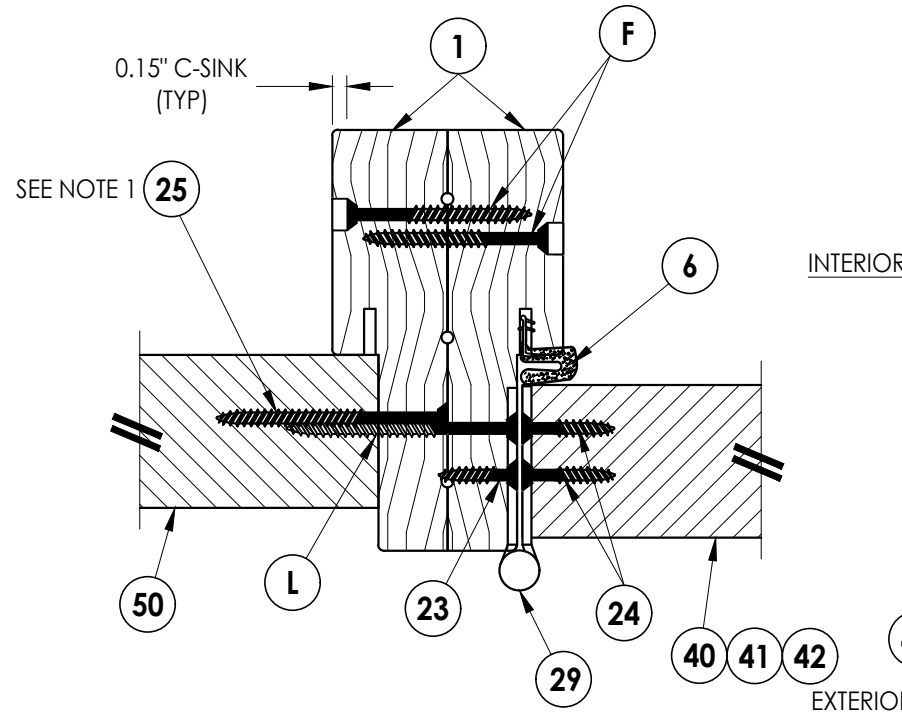
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.4-6.dwg



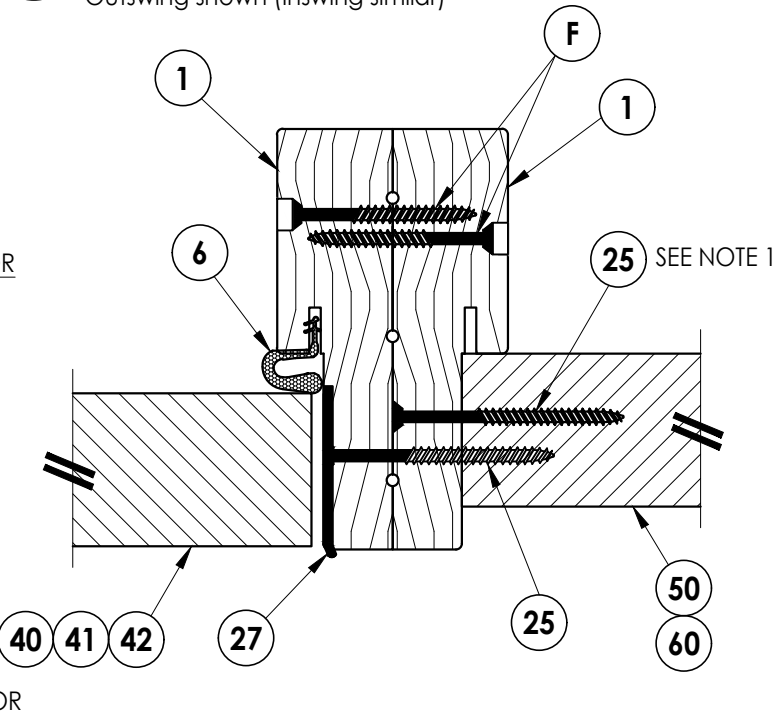
1 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



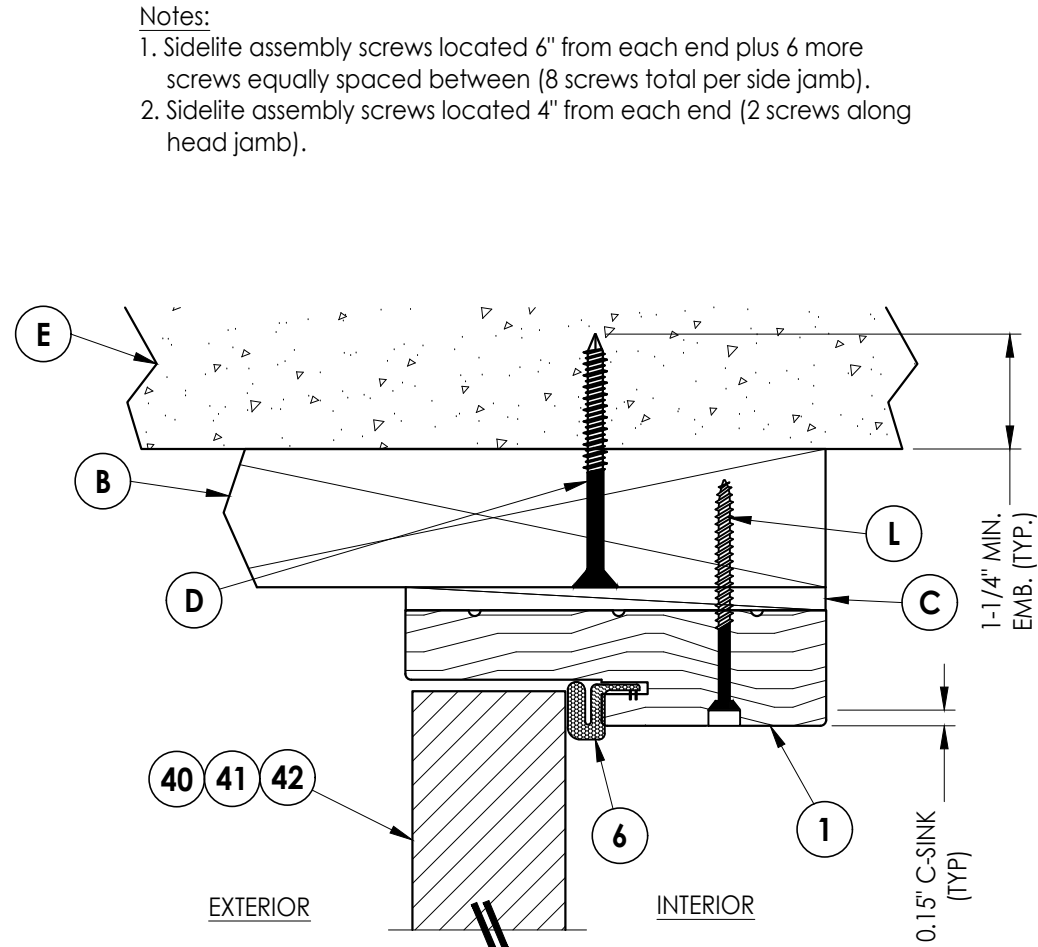
2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (Inswing similar)



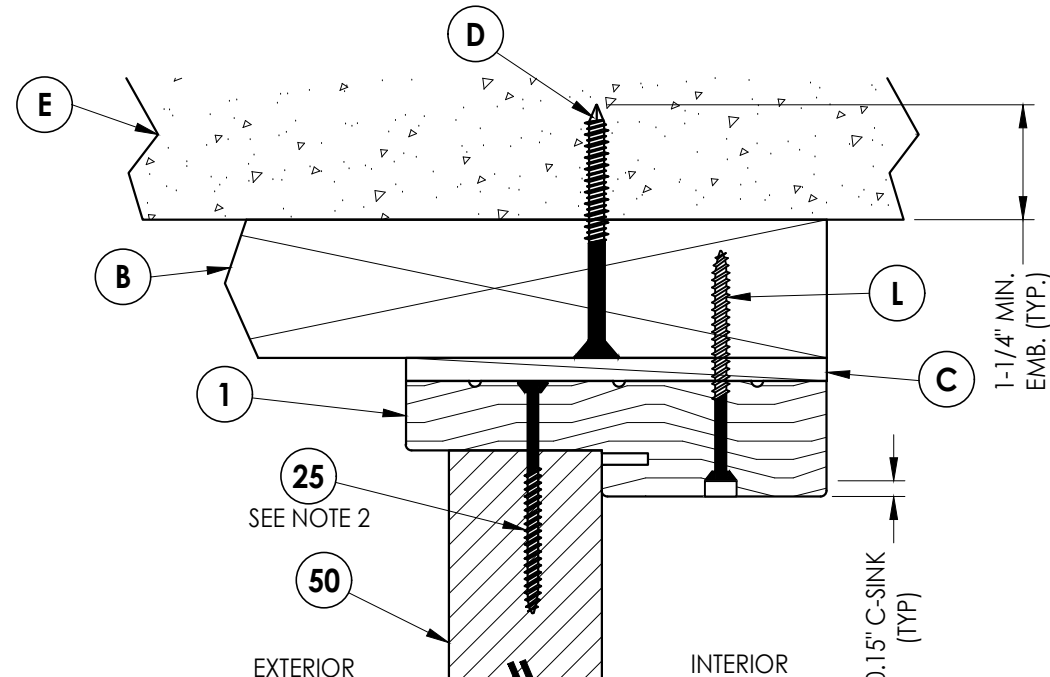
5 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



6 HORIZONTAL CROSS SECTION
5 Outswing shown (Inswing similar)



3 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
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 4" 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
STEEL DOOR

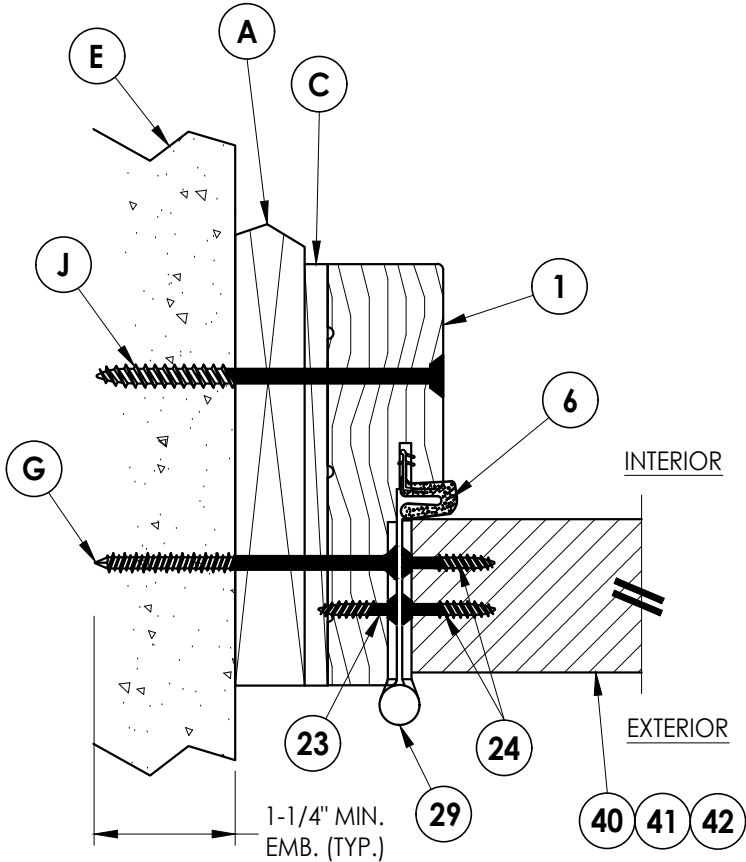
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS	BY
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/14/20	UPDATE TO 7TH ED (2020) FBC	LFS

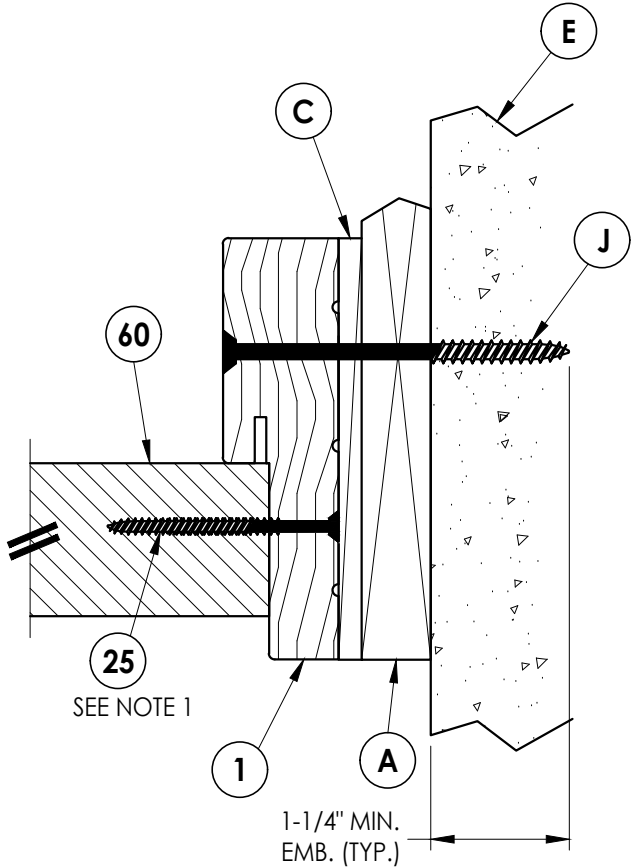
DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21131.5
SHEET 5 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.4-6.dwg

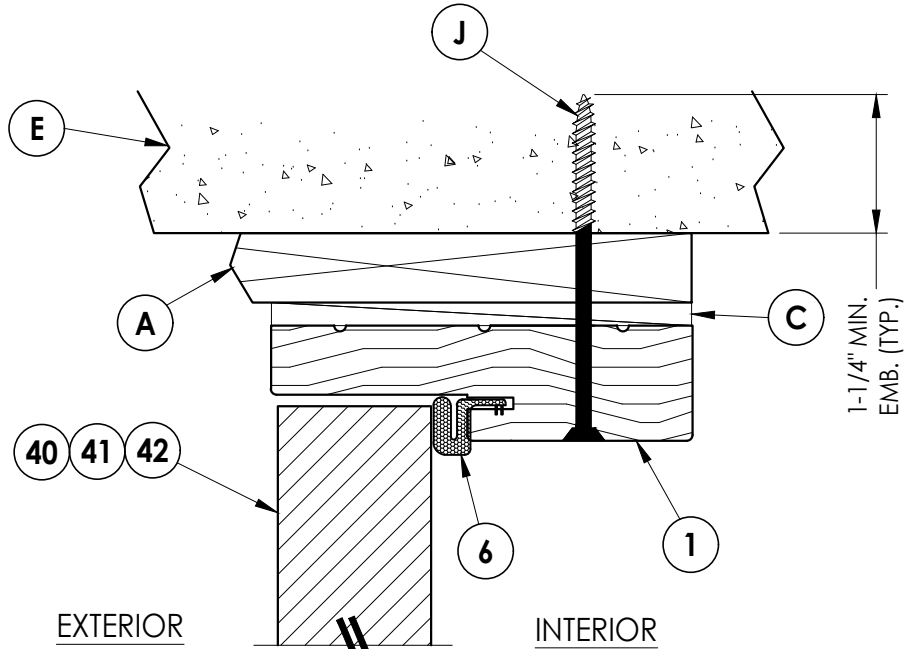
- Notes:
1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
 2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



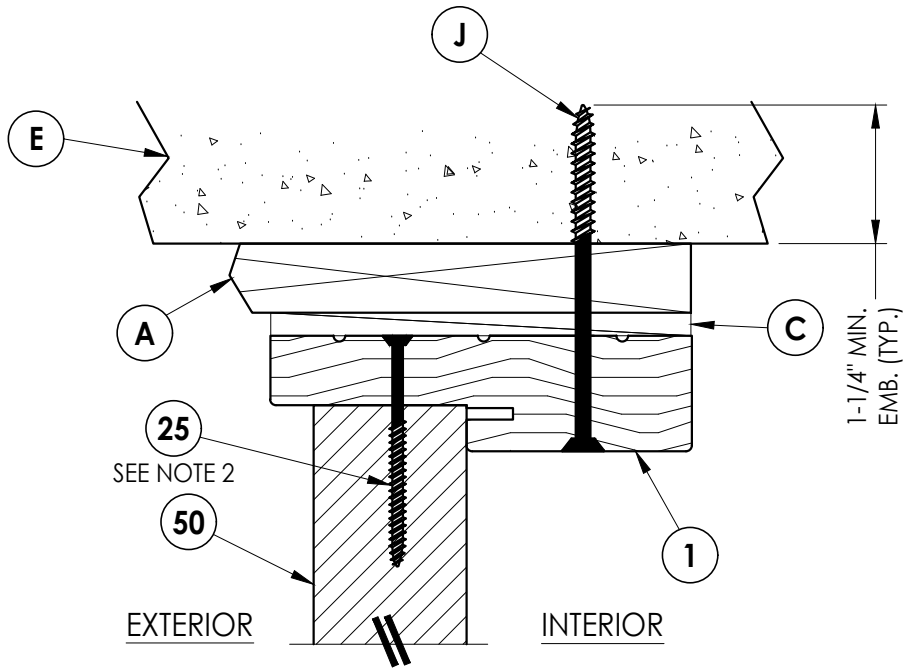
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



4
6 **VERTICAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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
STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

REVISIONS		NO.	DATE	BY
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
1	7/14/20	UPDATE TO 7TH ED (2020)	FBC	LFS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

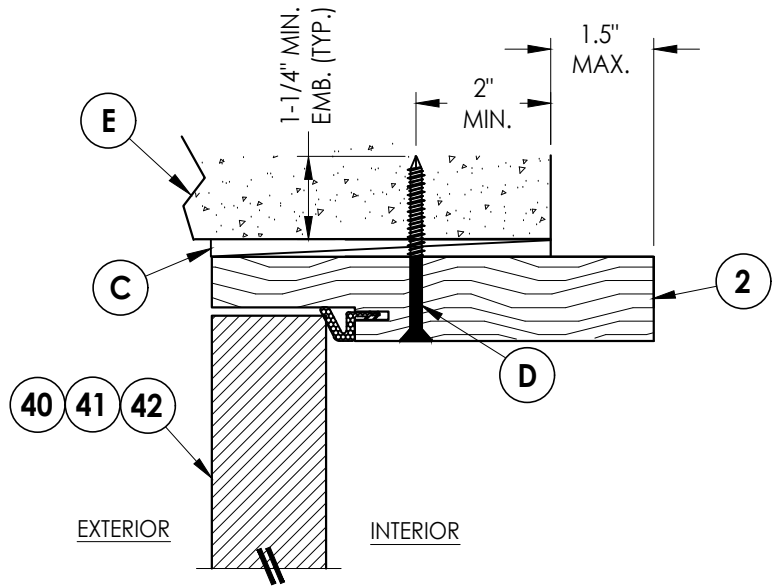
CHK. BY: LFS

DRAWING NO.:

FL-21131.5

SHEET 6 OF 13

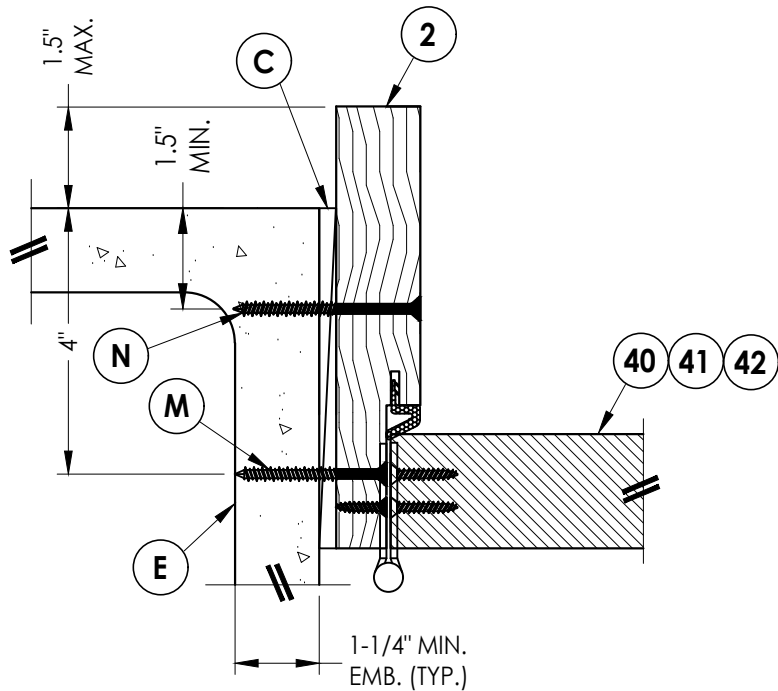
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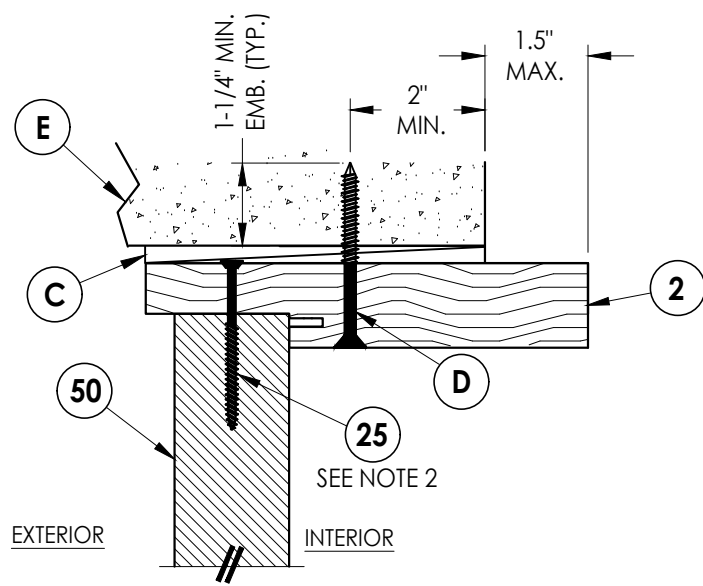
2
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

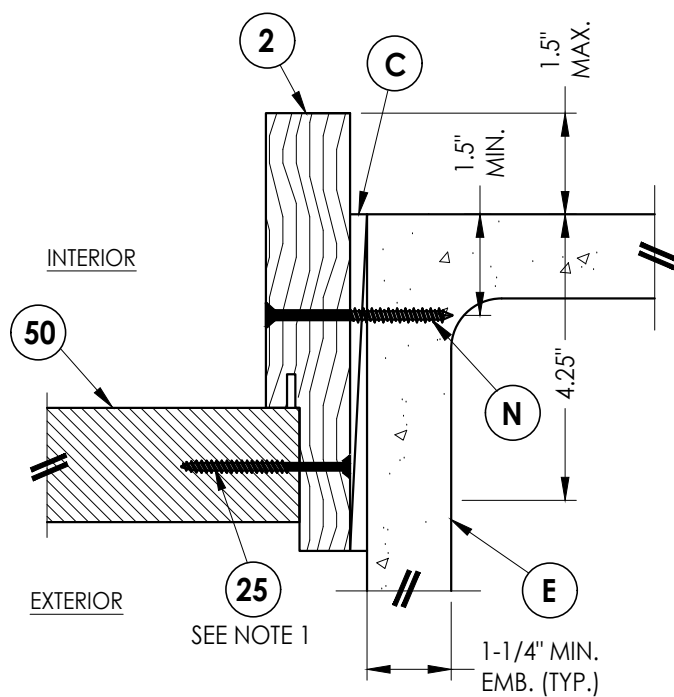
1. Sidelite assembly screws located 6" from each end plus 6 more screws equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



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



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



4
7 **VERTICAL CROSS SECTION**
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
STEEL DOOR

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

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/14/20	UPDATE TO 7TH ED (2020) FBC LFS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

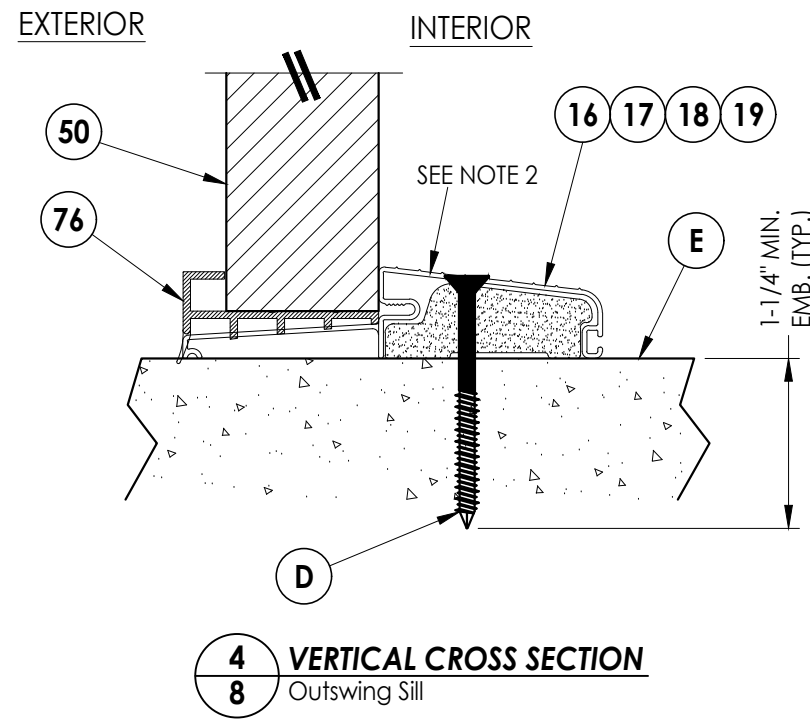
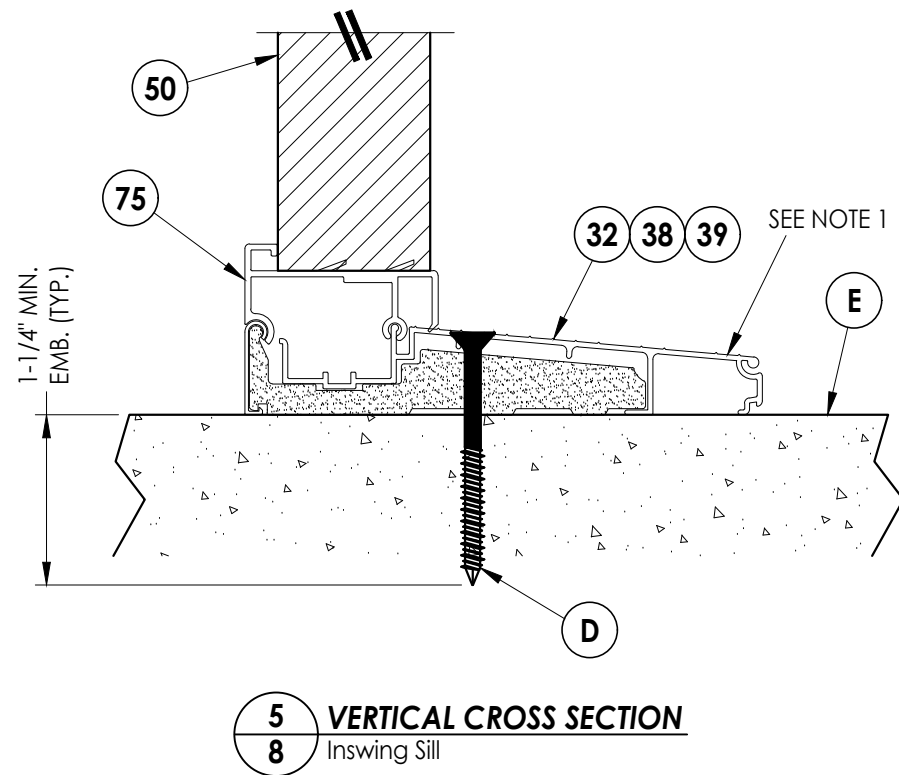
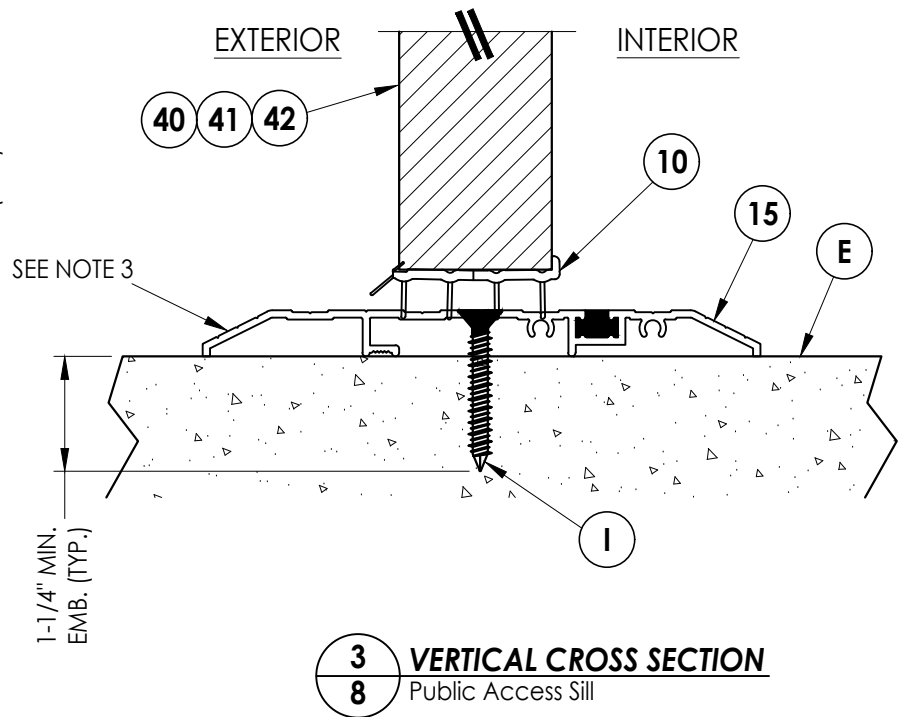
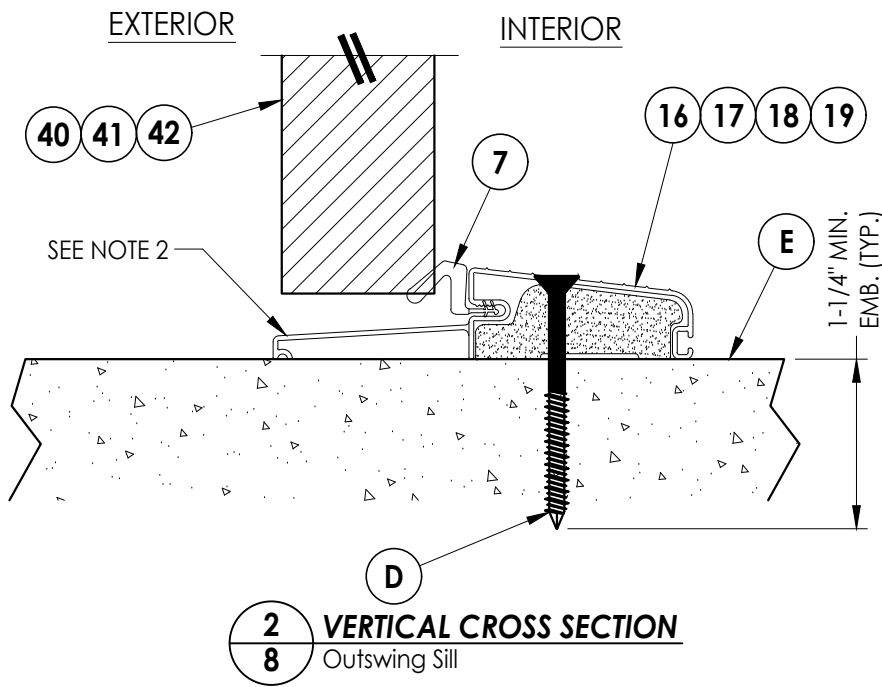
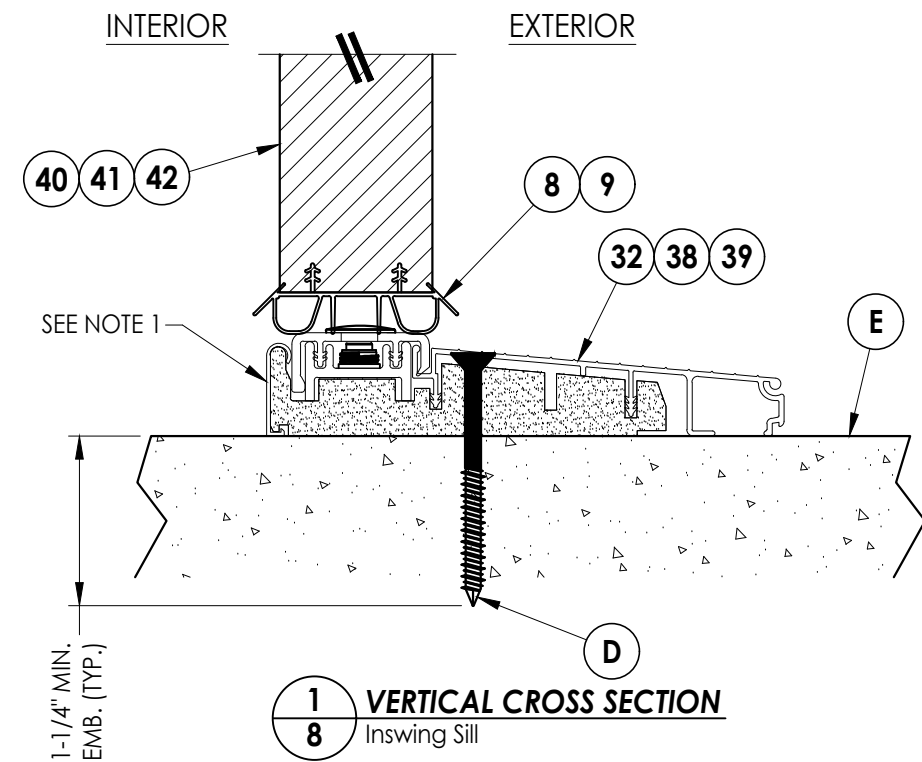
DRAWING NO.:

FL-21131.5

SHEET 7 OF 13

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.4-6.dwg

- Notes:
- Sill Item #'s 16, 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws or (3) 2.5" staples 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.



Documents Prepared By:
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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
STEEL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/14/20	UPDATE TO 7TH ED (2020) FBC LFS

DATE: 10/12/17

SCALE: N.T.S.

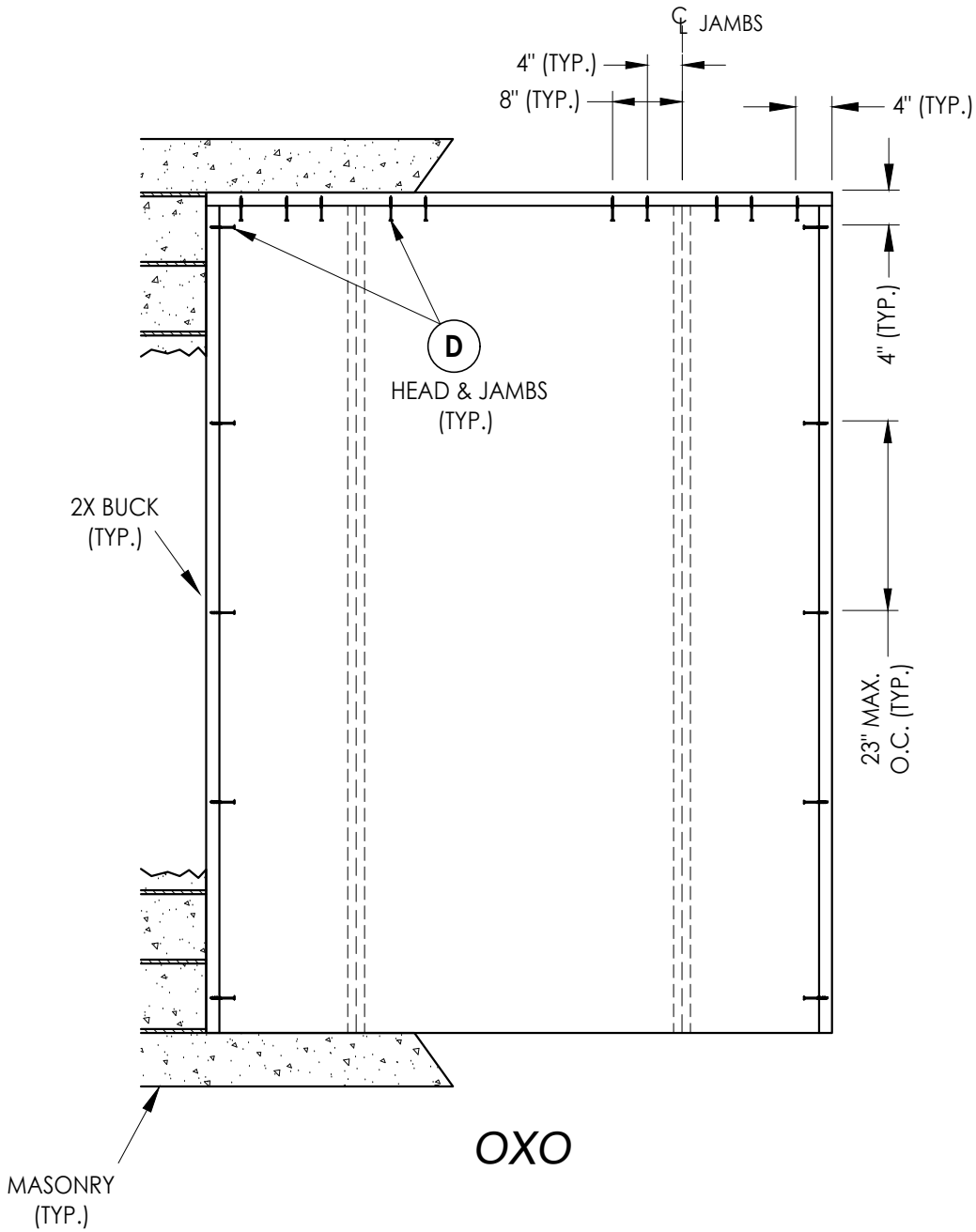
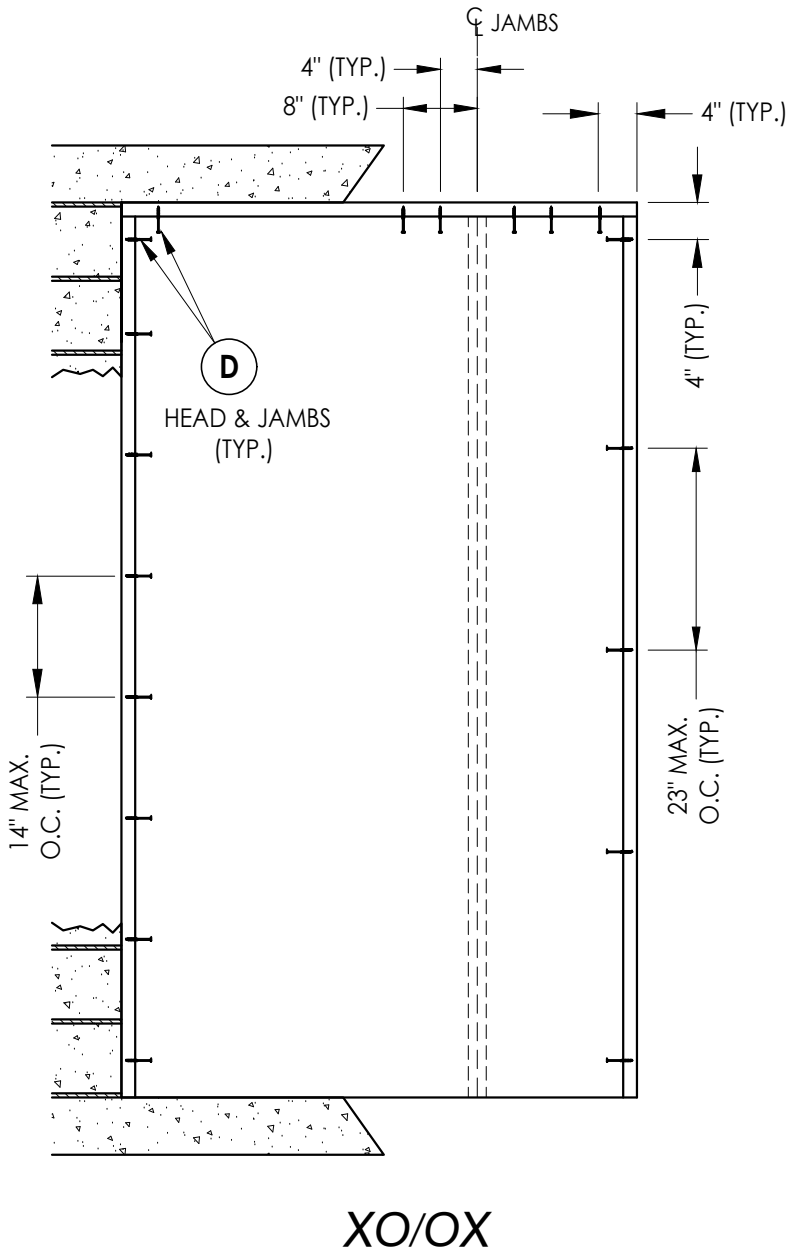
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-21131.5

SHEET 8 OF 13

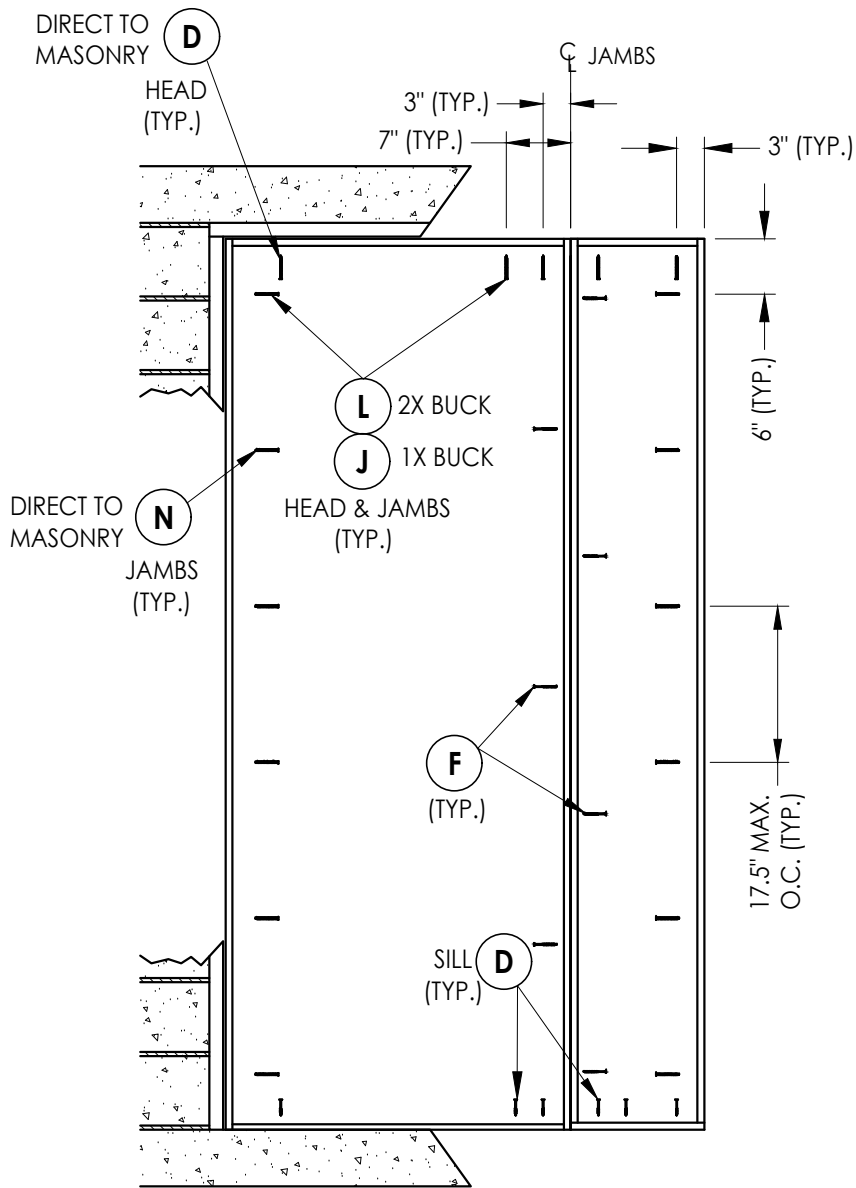
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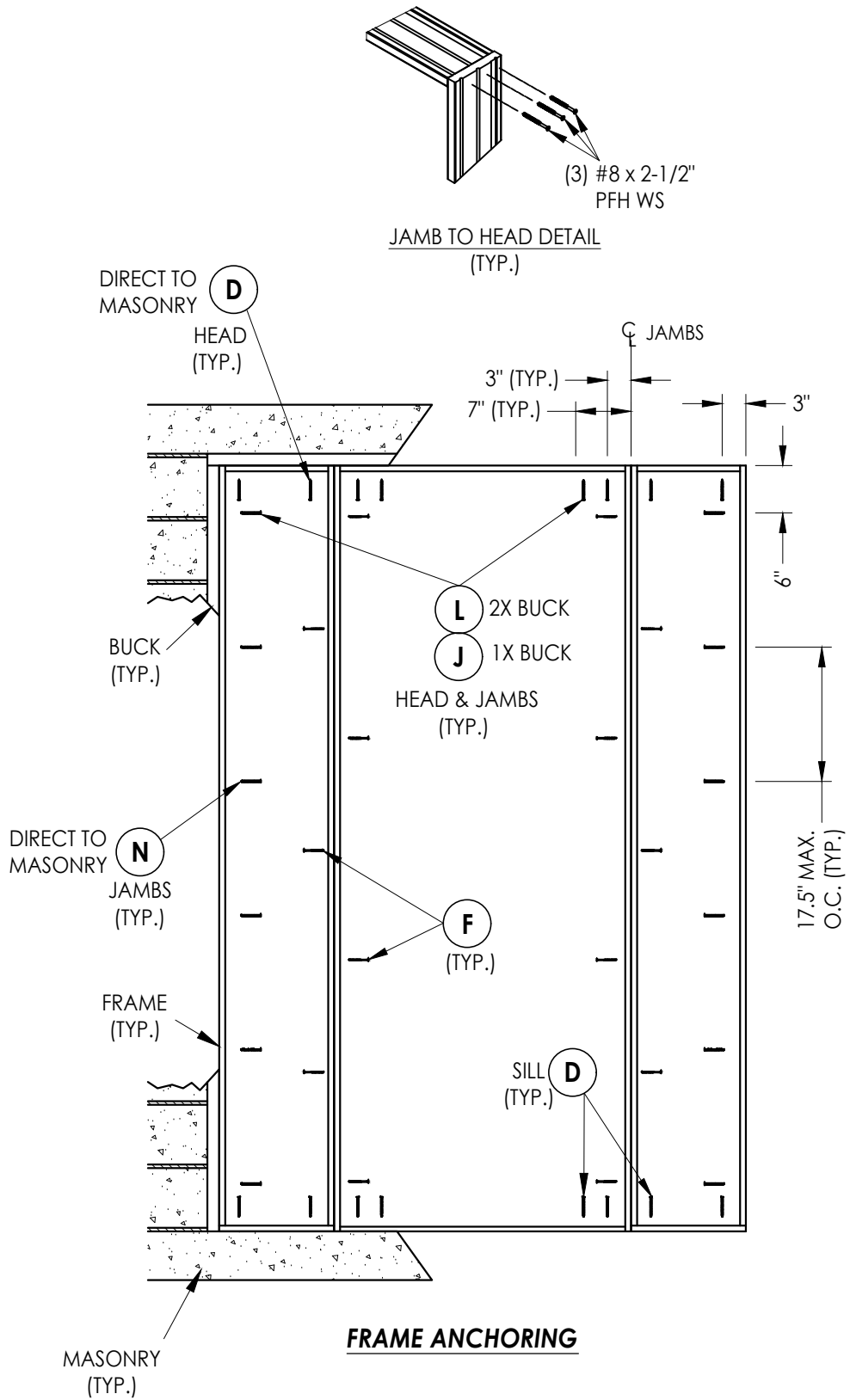
2X BUCK ANCHORING

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 STEEL DOOR				PART OR ASSEMBLY: BUCK ANCHORING			
				2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
				1	7/14/20	UPDATE TO 7TH ED (2020)	FBC
				NO.	DATE		BY
				REVISIONS			
DATE: 10/12/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21131.5							
SHEET 9 OF 13							

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.4-6.dwg



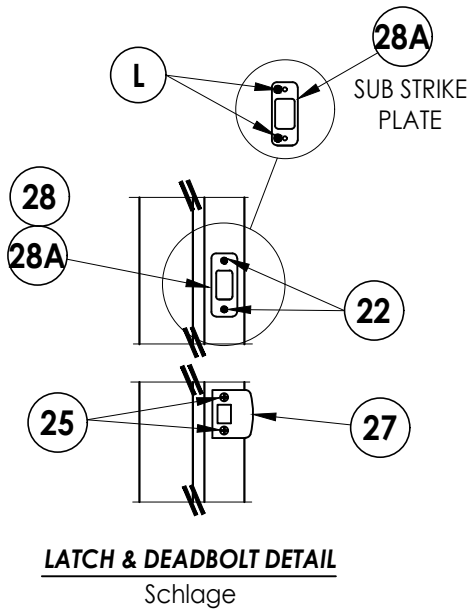
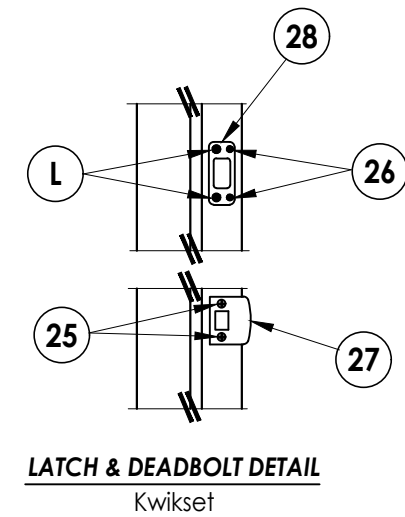
FRAME ANCHORING



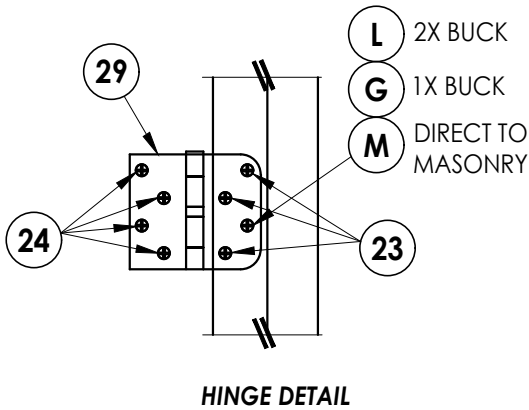
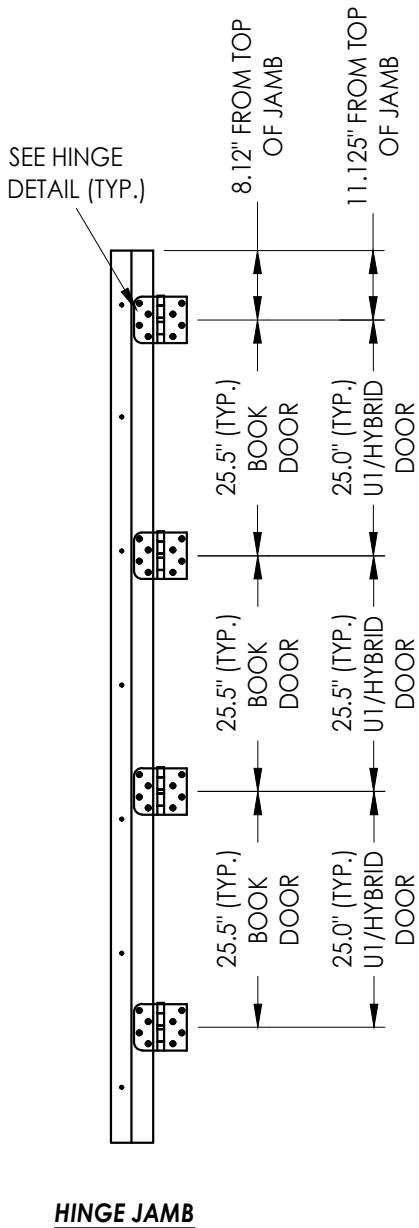
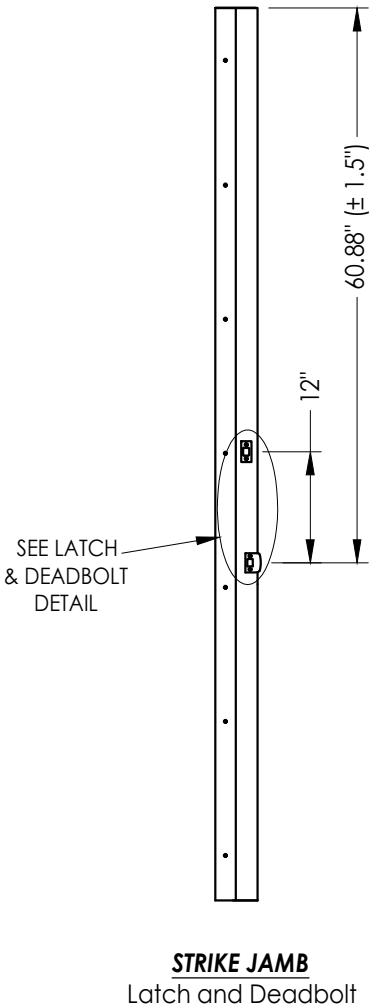
FRAME ANCHORING

FRAME ANCHORING

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	
THERMA-TRU STEEL DOOR		FRAME ANCHORING	
PRODUCT:		PART OR ASSEMBLY:	
		FRAME ANCHORING	
		REVISIONS	
		DATE: 10/12/17	
		SCALE: N.T.S.	
		DWG. BY: JK	
		CHK. BY: LFS	
		DRAWING NO.: FL-21131.5	
		SHEET 10 OF 13	
		2 8/07/23 UPDATE TO 8TH ED. (2023) FBC LFS	
		1 7/14/20 UPDATE TO 7TH ED (2020) FBC LFS	
		NO. DATE BY	



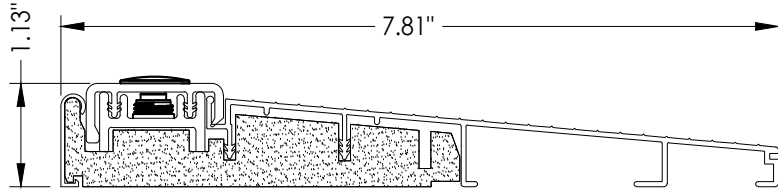
LATCH & DEADBOLT STRIKE DETAILS

[illegible]

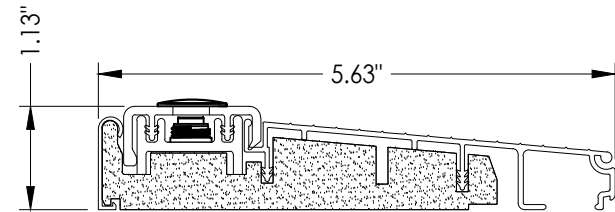
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

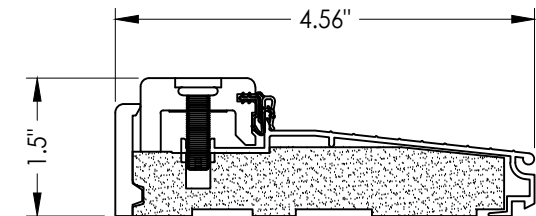
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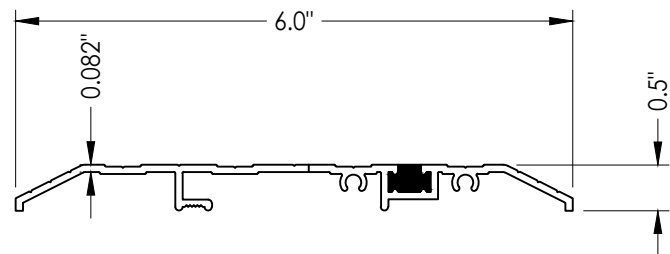
32 INSWING THRESHOLD
Inswing Composite Adjustable 7-3/4" Sill



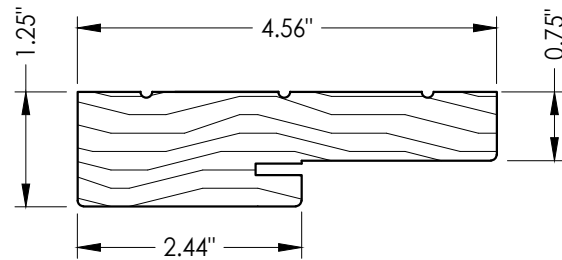
39 INSWING THRESHOLD
Inswing Composite Adjustable Sill



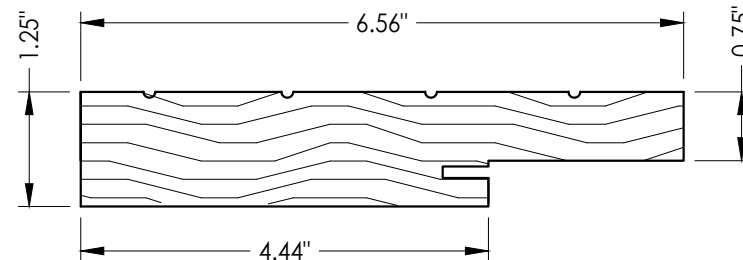
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



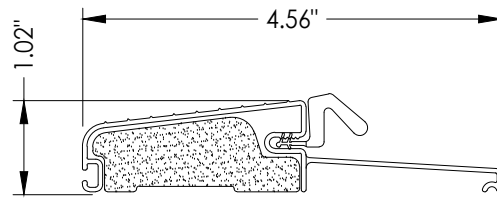
15 PUBLIC ACCESS THRESHOLD



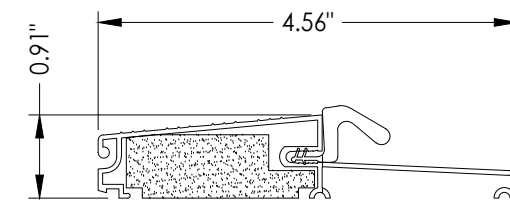
1 WOOD JAMB



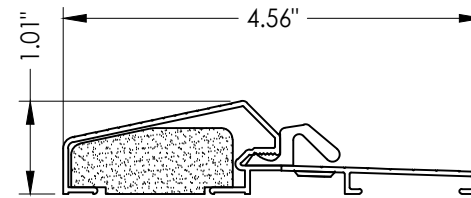
2 WOOD JAMB



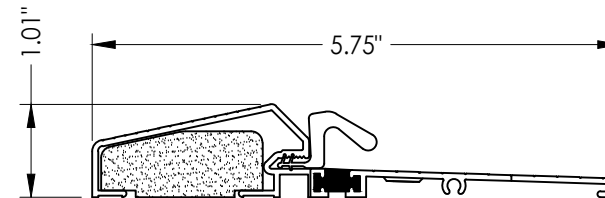
16 OUTSWING THRESHOLD
Composite Sill



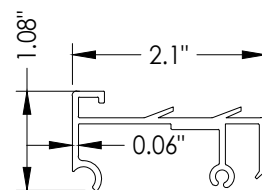
19 OUTSWING THRESHOLD
Composite Sill



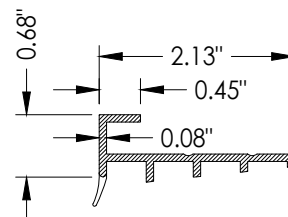
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



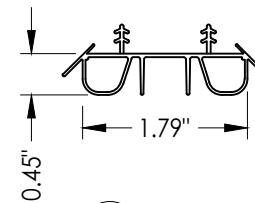
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



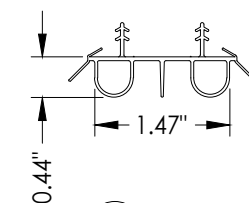
75 SIDELITE SPACER



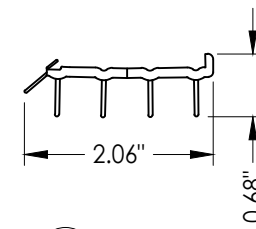
76 SIDELITE SPACER



8 SWEEP



9 SWEEP



10 SWEEP

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
STEEL DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	REVISIONS
2	8/07/23	UPDATE TO 8TH ED. (2023) FBC
1	7/14/20	UPDATE TO 7TH ED (2020) FBC
LFS		BY

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21131.5

SHEET 12 OF 13

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 2" PFH WOOD SCREW	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
K	1/2" X 1" X 25 GA. CORRUGATED FASTENER	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL
1	JAMB (FINGER JOINT PINE)	WOOD
2	JAMB (FINGER JOINT PINE)	WOOD
6	WEATHERSTRIP (MEDIUM REACH)	FOAM
7	WEATHERSTRIP (LONG REACH)	FOAM
8	SWEEP	VINYL
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL
15	PUBLIC ACCESS THRESHOLD	ALUM
16	OUTSWING THRESHOLD	ALUM/COMP
17	OUTSWING THRESHOLD	ALUM/COMP
18	OUTSWING THRESHOLD	ALUM/COMP
19	OUTSWING THRESHOLD	ALUM/COMP
22	#8 x 3/4" PFH WOOD SCREW	STEEL
23	#10 x 3/4" PFH WOOD SCREW	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
25	#8 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
34	INTERIOR MULL CASING	WOOD
35	EXTERIOR MULL CASING	WOOD
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (U1)	-
50	SIDELITE (FULL LITE)	-
75	SIDELITE SPACER (INSWING)	PVC
76	SIDELITE SPACER (OUTSWING)	PVC

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.

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SHEET 13 OF 13		REVISIONS			