

WOOD EDGE

GLAZED STEEL DOUBLE DOOR

w/ or w/out SIDELITES

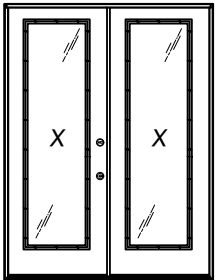
INSWING/OUTSWING

"IMPACT"

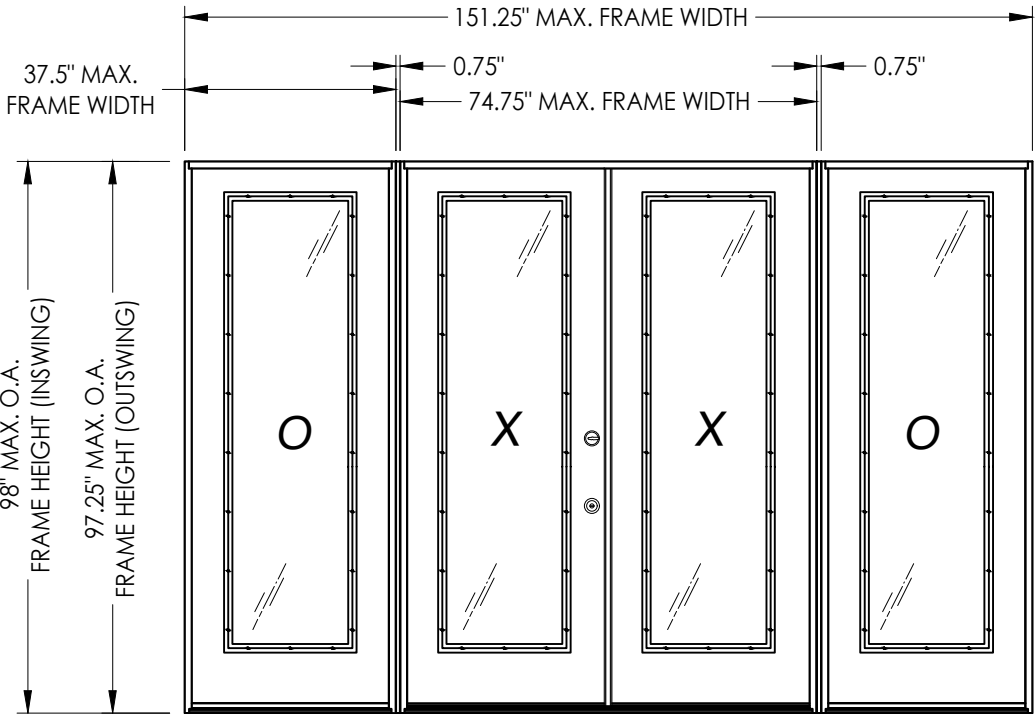
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding 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 areas 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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials

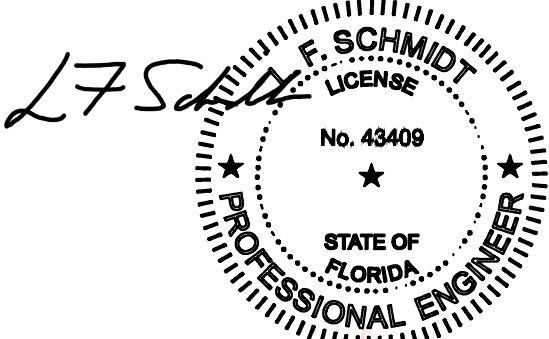


XX



OXXO

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XX, OXXO	+47.0	-50.0	+47.0	-47.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 15:55:16 -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

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

THERMA-TRU
STEEL DOOR

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

2

8/07/23

UPDATE TO 8TH ED. (2023)

FBC

LFS

1

7/20/20

UPDATE TO 7th ED (2020)

FBC

LFS

NO.

DATE

BY

REVISIONS

DATE: 8/02/16

SCALE: N.T.S.

DWG. BY: JK

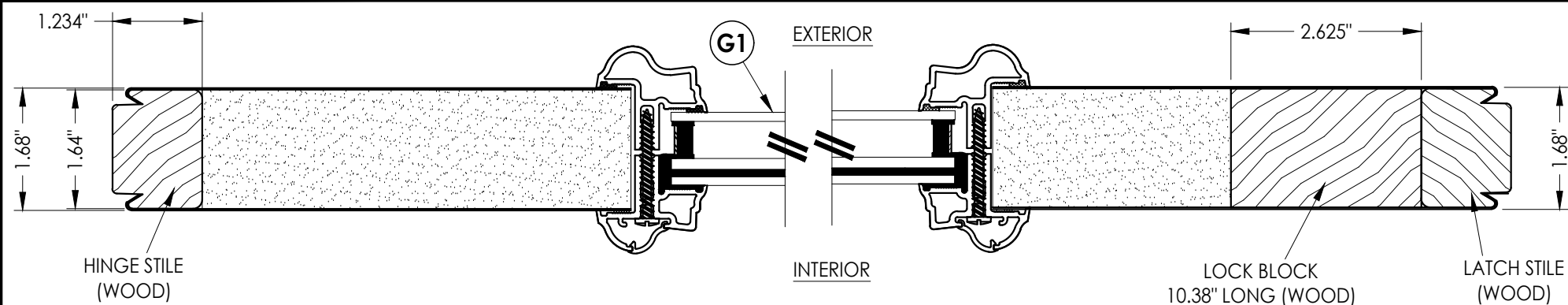
CHK. BY: LFS

DRAWING NO.: FL-21132.14

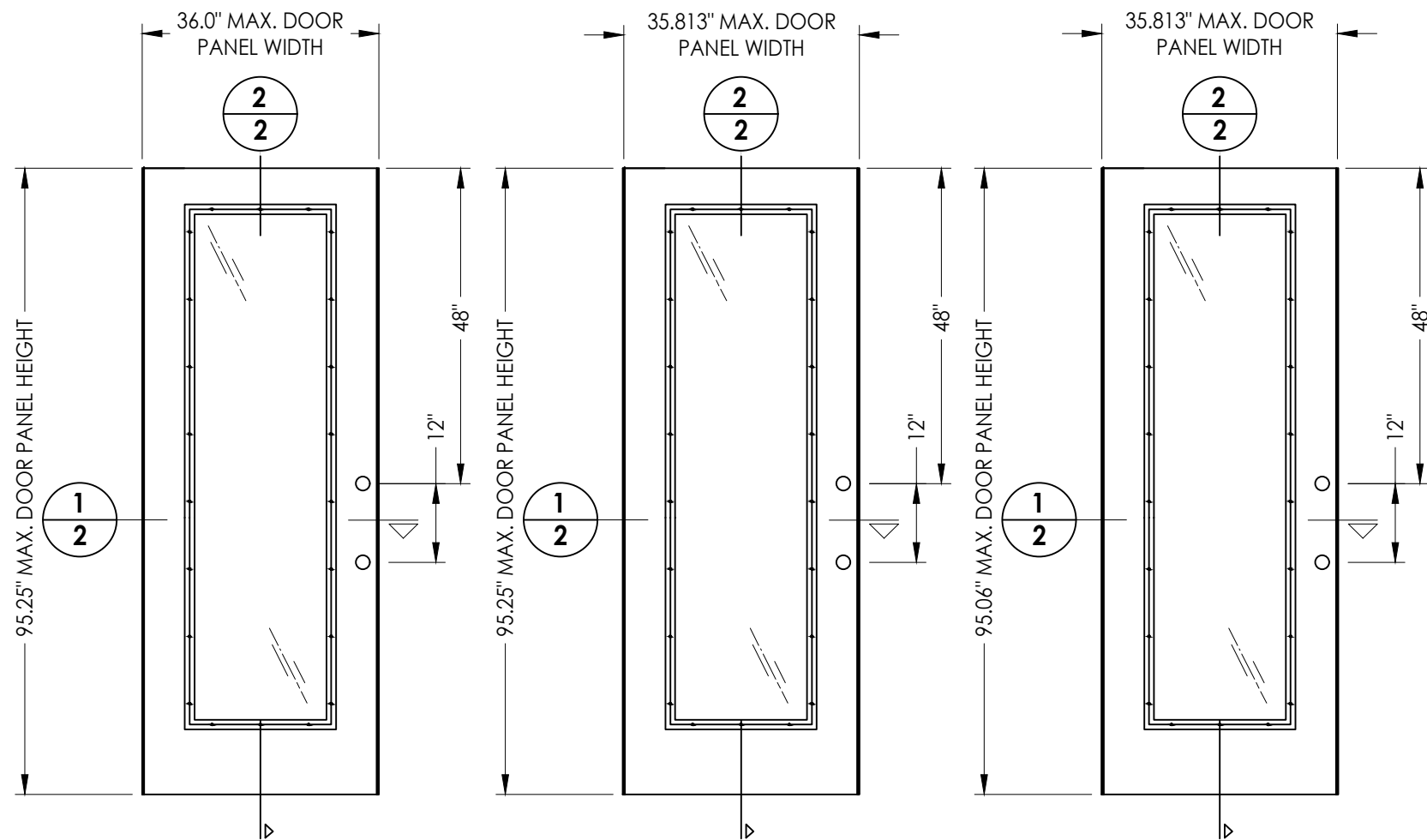
SHEET 1 OF 14

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-21132 R2\FL-21132.12-14.dwg



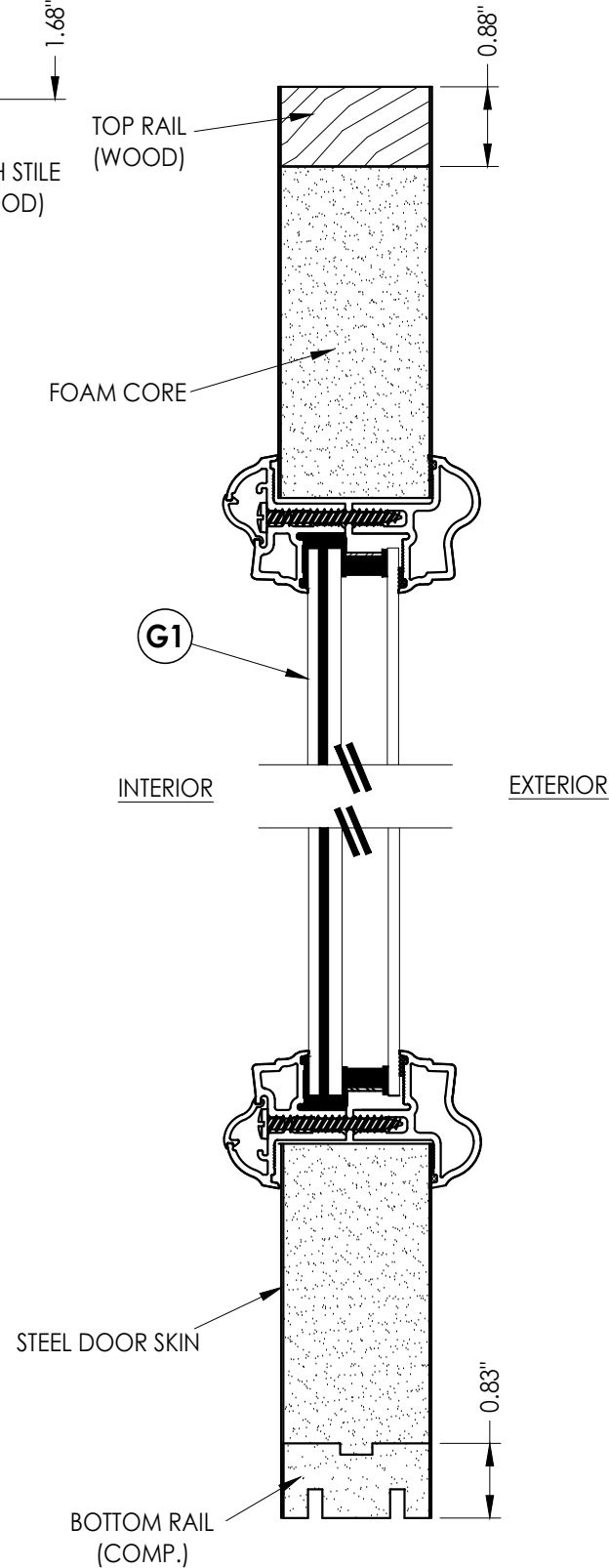
1
2 **HORIZONTAL CROSS SECTION**



40 **DOOR PANEL**
BOOK

41 **DOOR PANEL**
Hybrid Door

42 **DOOR PANEL**
U1 Door



2
2 **VERTICAL CROSS SECTION**

"TRADITIONS" SERIES DOOR PANEL

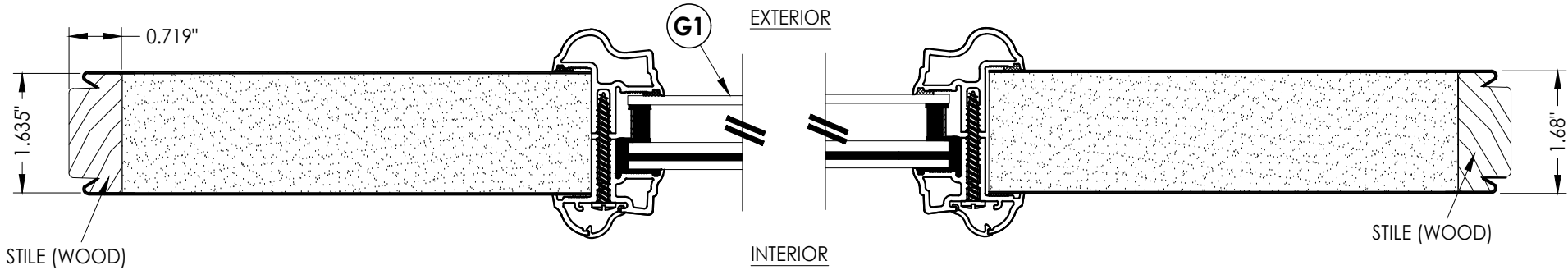
STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, F_y = 48,470 PSI MIN.)
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

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

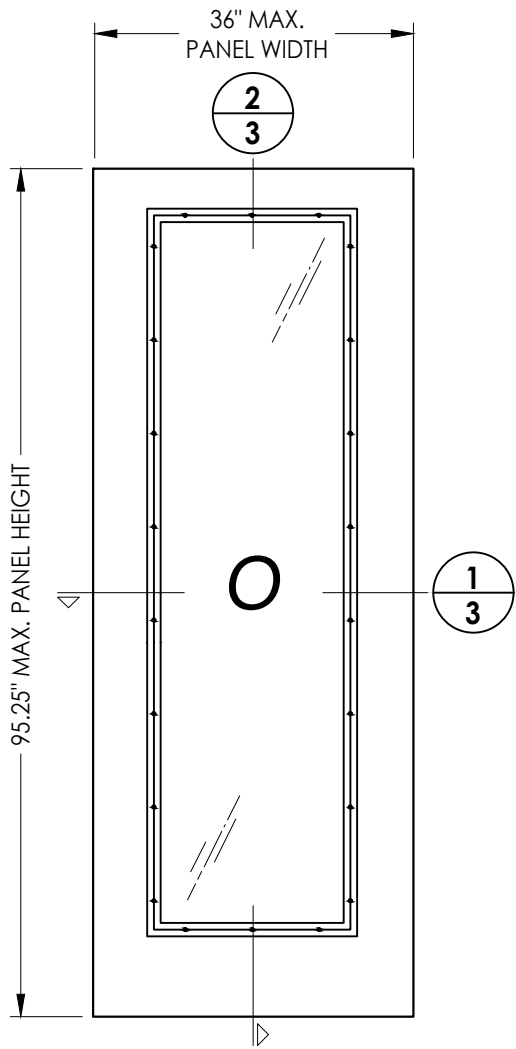
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		"TRADITIONS" DOOR PANEL DETAILS	
NO.	DATE	REVISIONS	
		BY	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/20/20	UPDATE TO 7th ED (2020)	FBC
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.14			
SHEET 2 OF 14			

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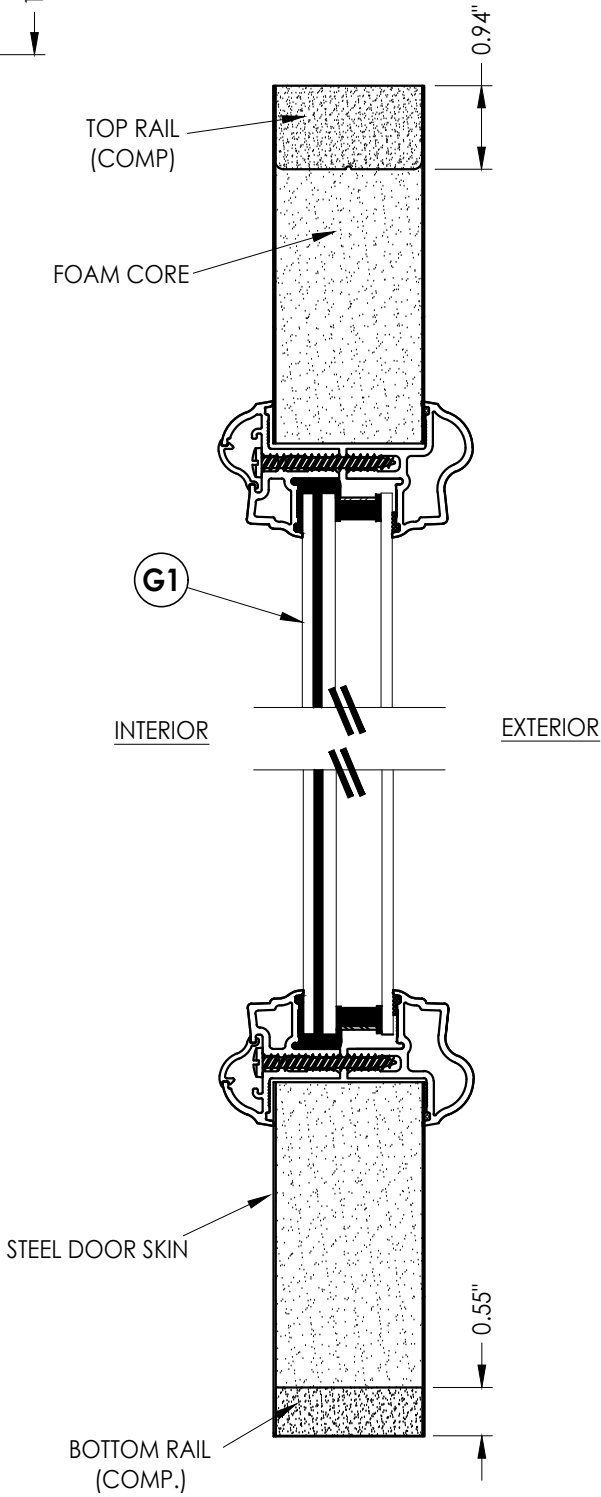
1
3 HORIZONTAL CROSS SECTION



50 SIDELITE PANEL

SIDELITE PANEL

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



2
3 VERTICAL CROSS SECTION

DATE:	10/12/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21132.14
SHEET	3 OF 14

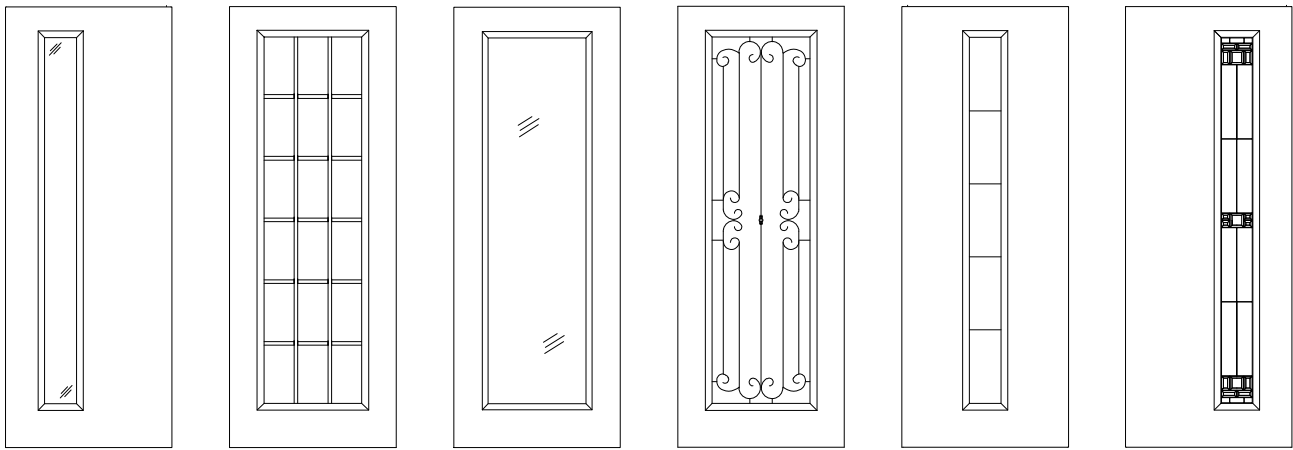
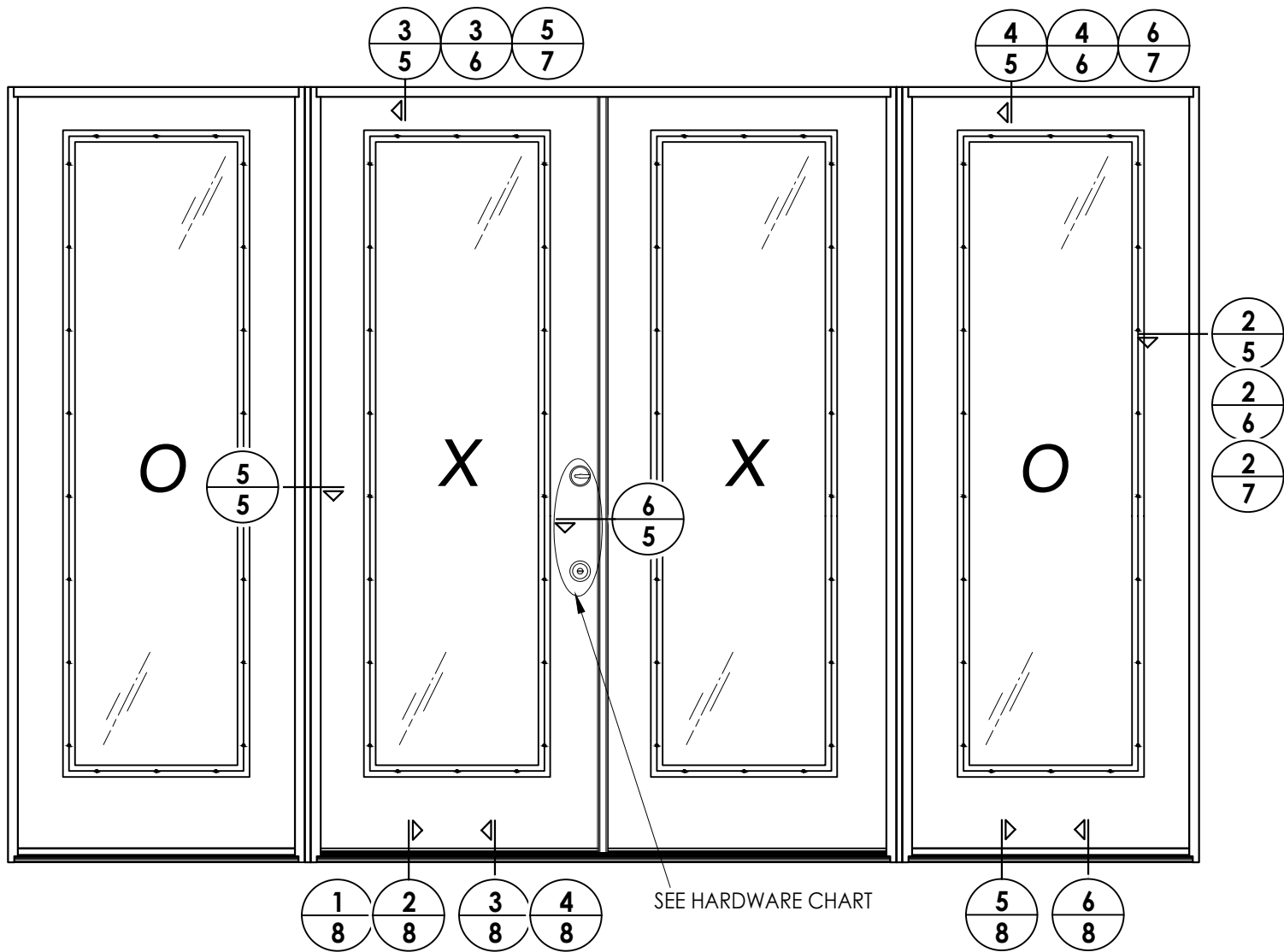
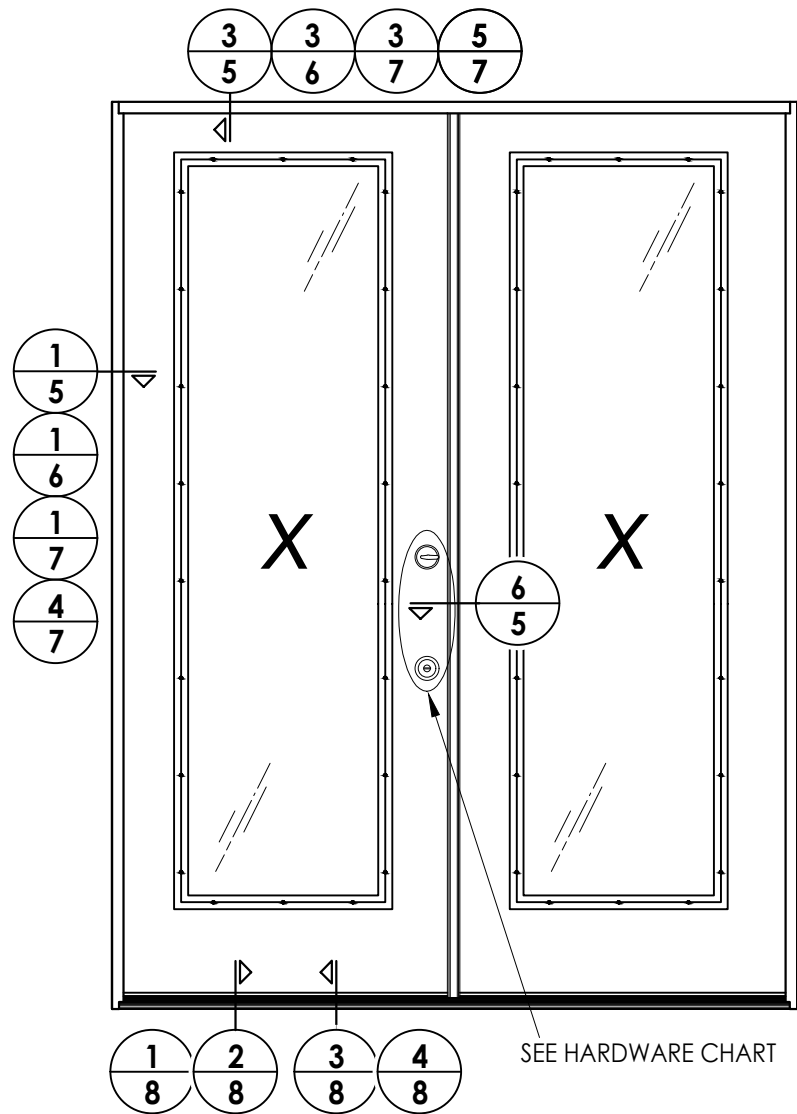
PRODUCT:		THERMA-TRU STEEL DOOR	
PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC LFS
1	7/20/20	UPDATE TO 7th ED (2020)	FBC LFS
NO.	DATE		BY

REVISIONS

Documents Prepared By:
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FBPE Registry No. 9813

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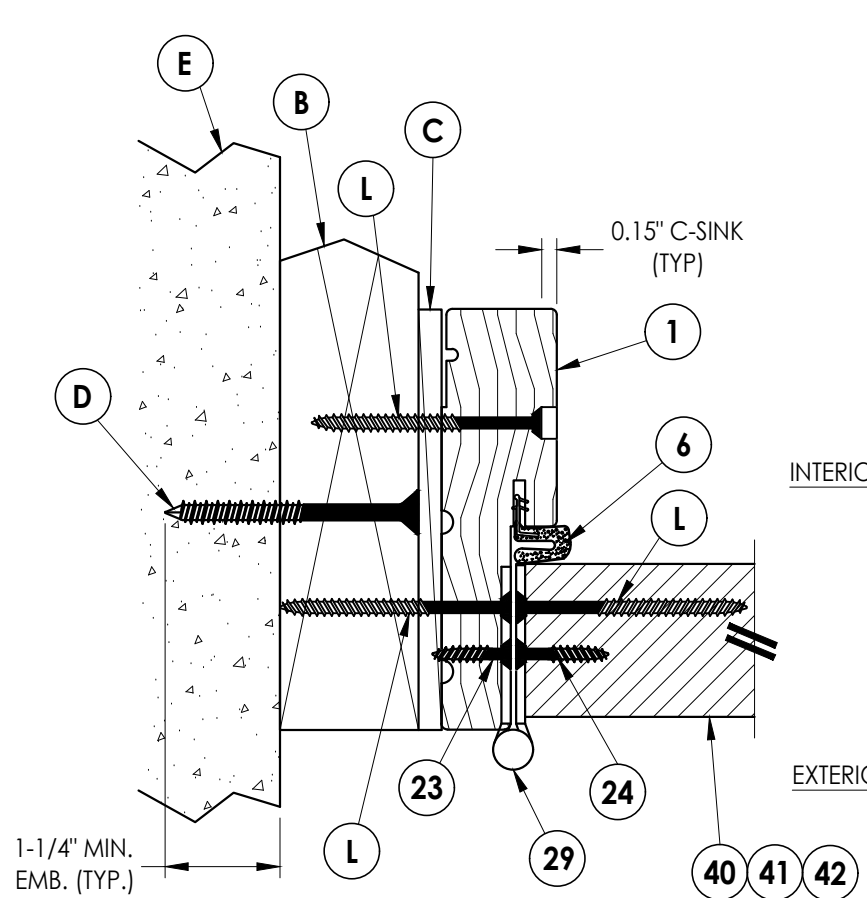
Traditions Door Panel Options

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

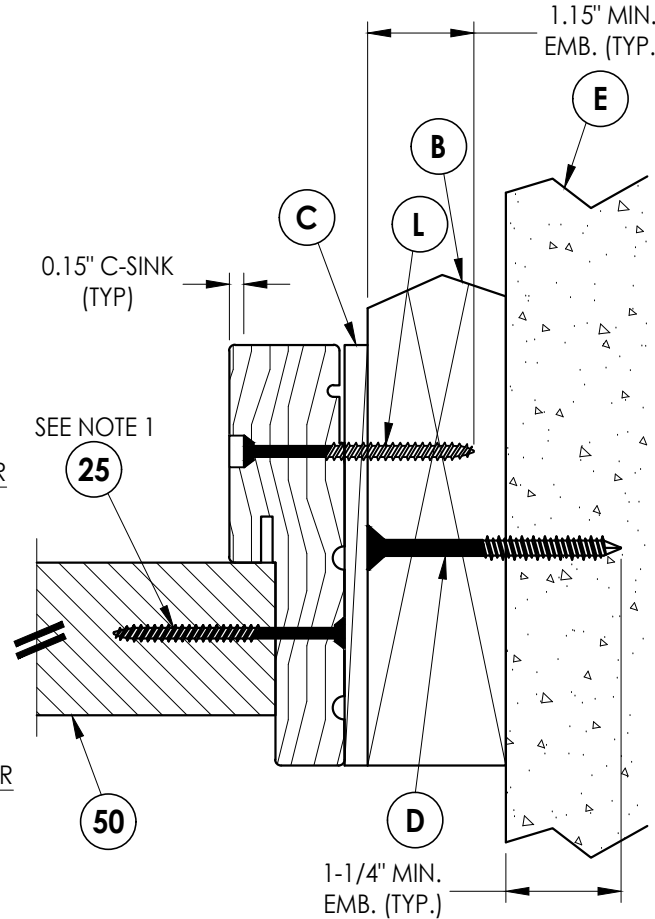
HARDWARE TABLE		
MANUFACTURER	MODEL	
SCHLAGE	Knob:	F51
	Deadbolt:	B60
KWIKSET	Knob:	SIGNATURE SERIES
	Deadbolt:	SIGNATURE SERIES (980)

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
		BY	
REVISIONS			
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.14			
SHEET 4 OF 14			

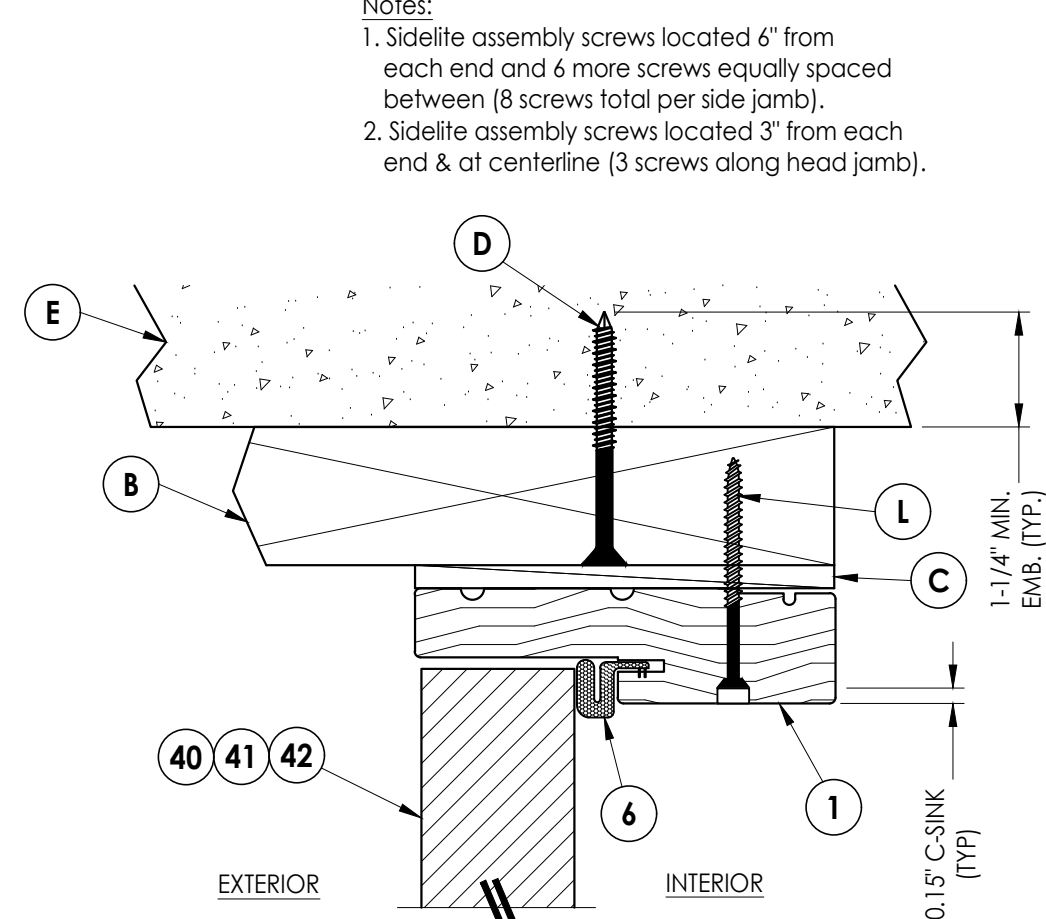
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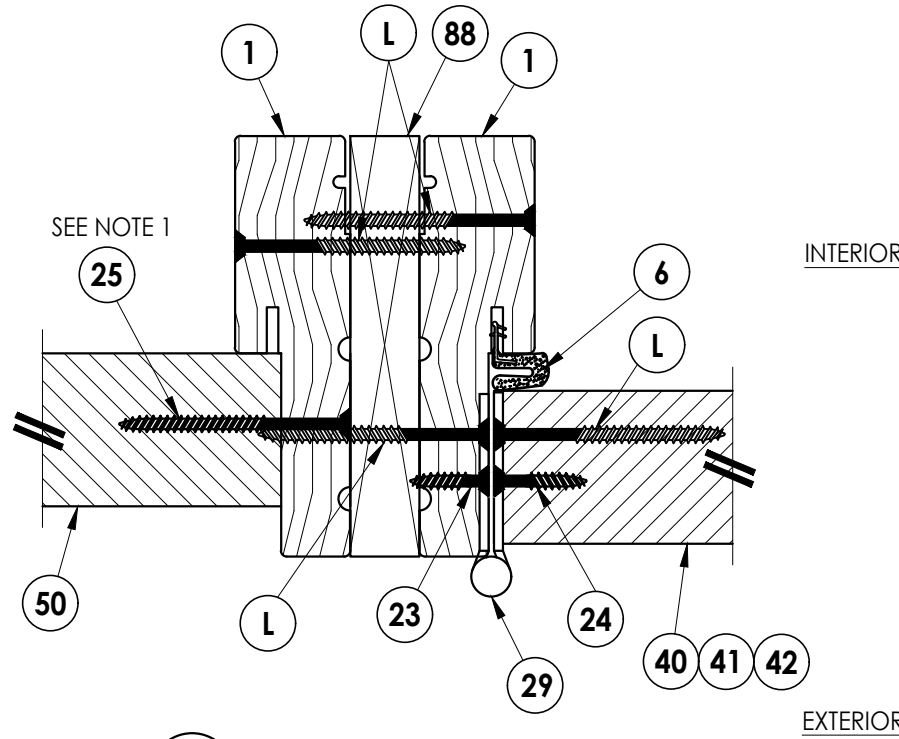
1 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



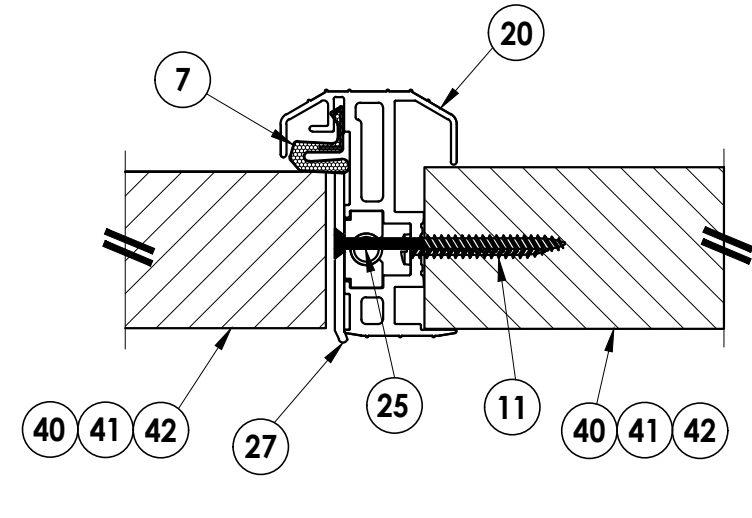
2 **HORIZONTAL CROSS SECTION**
5 Outswing shown (Inswing similar)



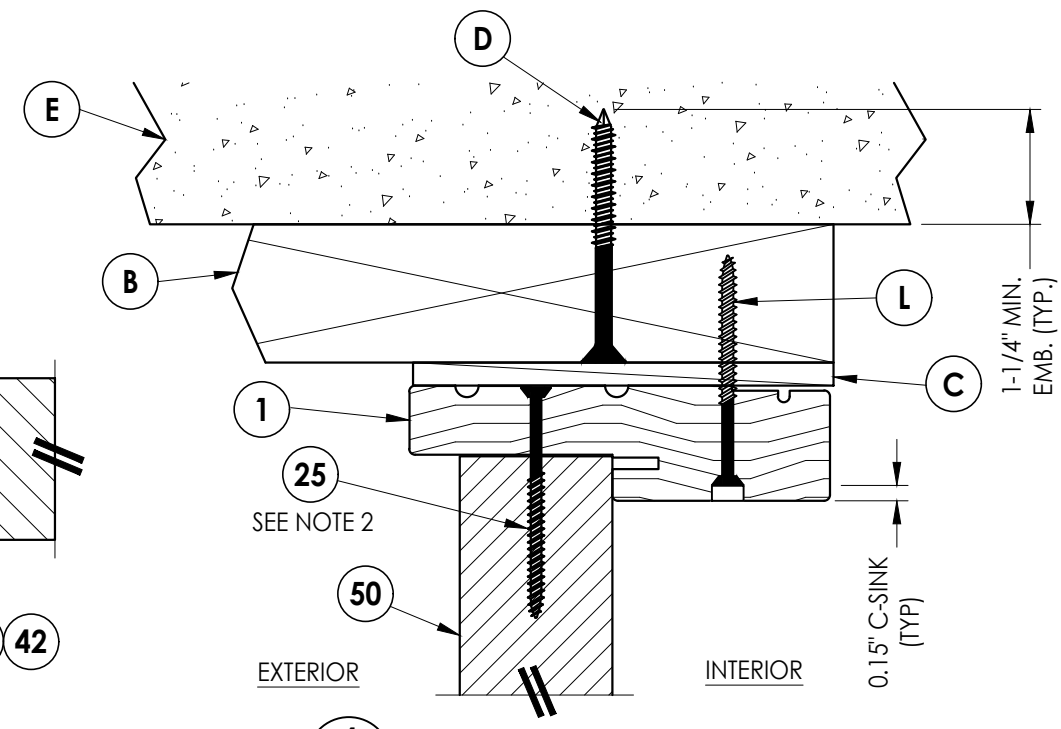
3 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)



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



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



4 **VERTICAL CROSS SECTION**
5 Outswing shown (Inswing similar)

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

Documents Prepared By:
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P.E. No. 43409

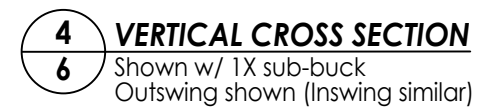
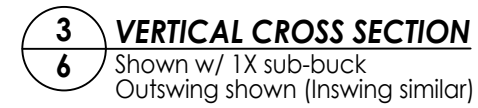
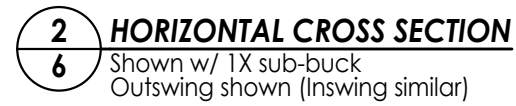
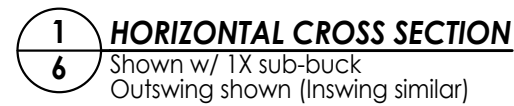
PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:		REVISIONS	
HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		NO.	DATE
LFS	8/07/23	2	UPDATE TO 8TH ED. (2023) FBC
LFS	7/20/20	1	UPDATE TO 7th ED (2020) FBC

DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-21132.14
SHEET 5 OF 14

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

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

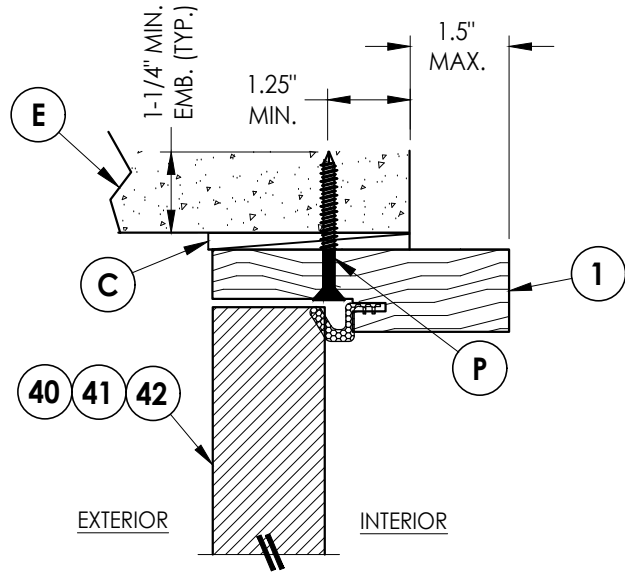


DATE:	10/12/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21132.14
SHEET	6 OF 14

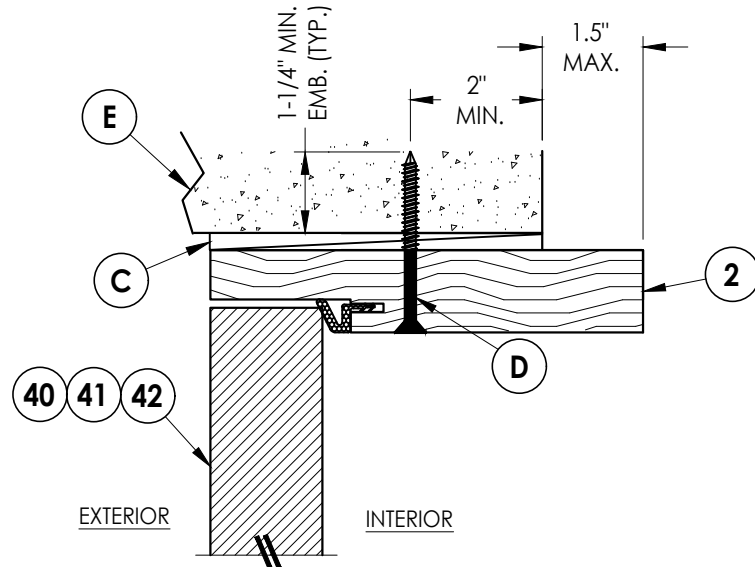
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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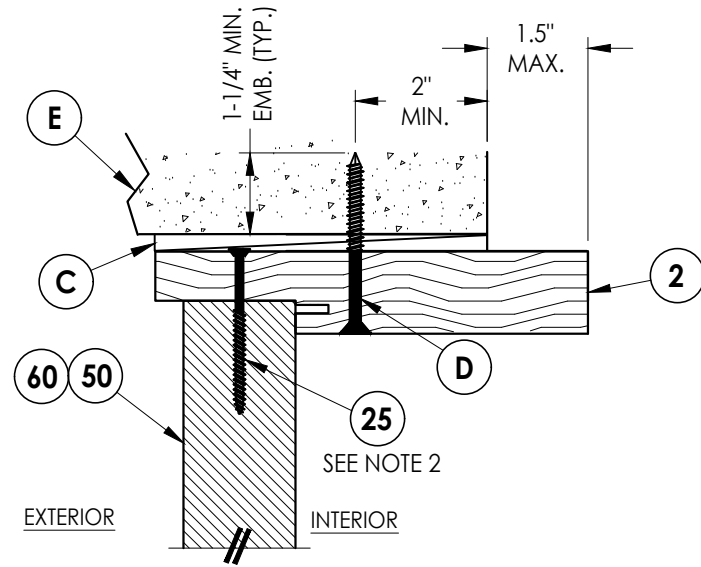
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3
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



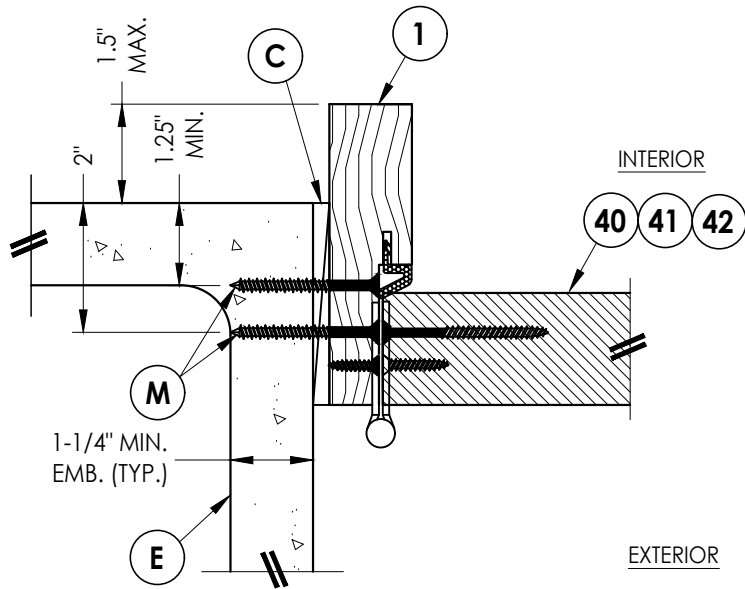
5
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



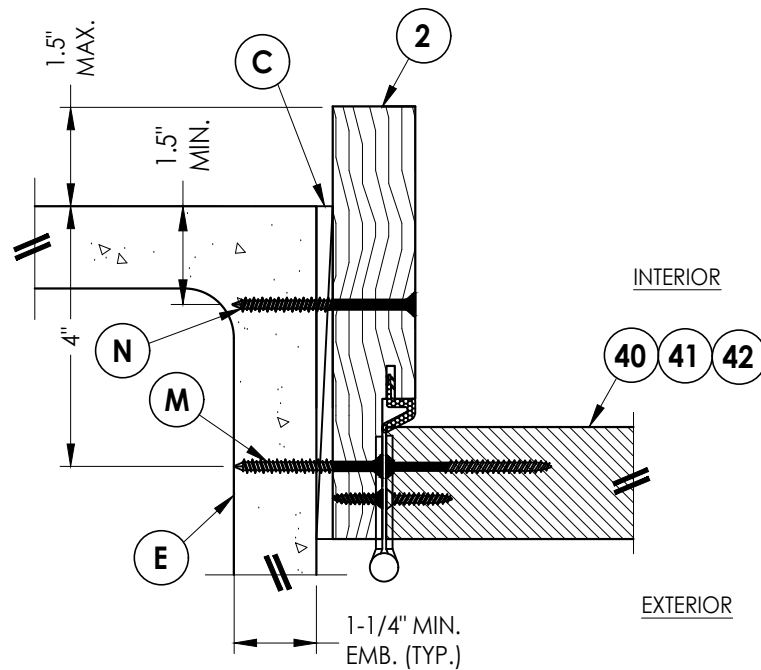
6
7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

Notes:

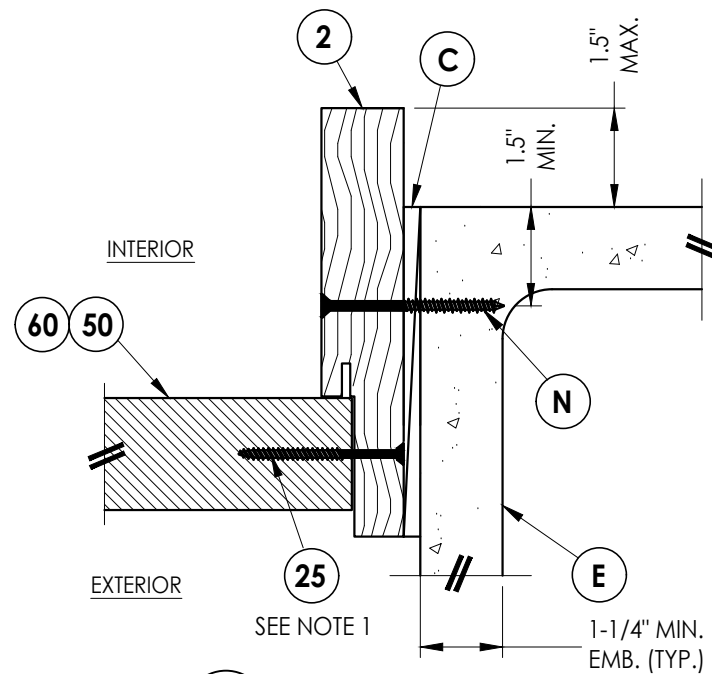
1. Sidelite assembly screws located 6" from each end plus 6 more equally spaced between (8 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



1
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb
Double Door Only (N/A w/ Sidelites)



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



2
7 **HORIZONTAL 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
LFB86 Registered Professional Engineer No. E9863 43409

PRODUCT:
THERMA-TRU
STEEL DOOR

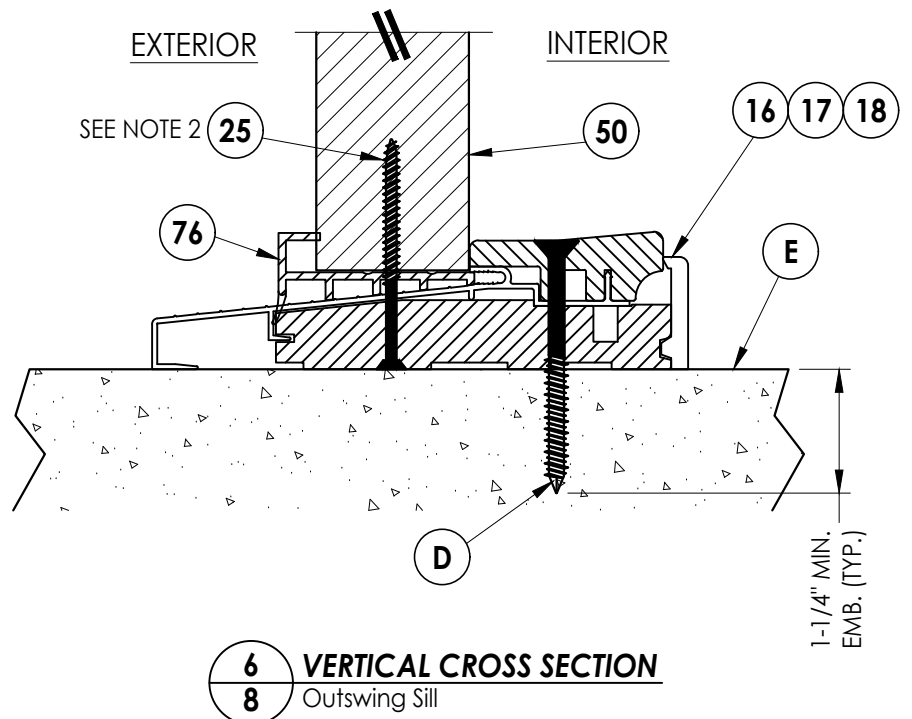
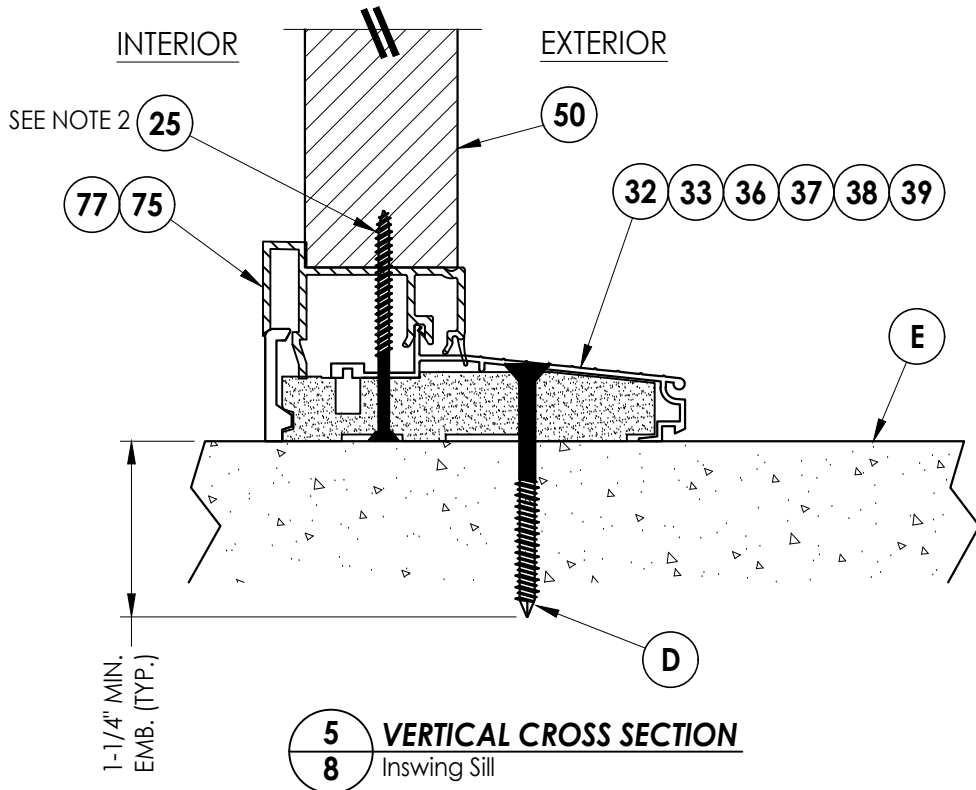
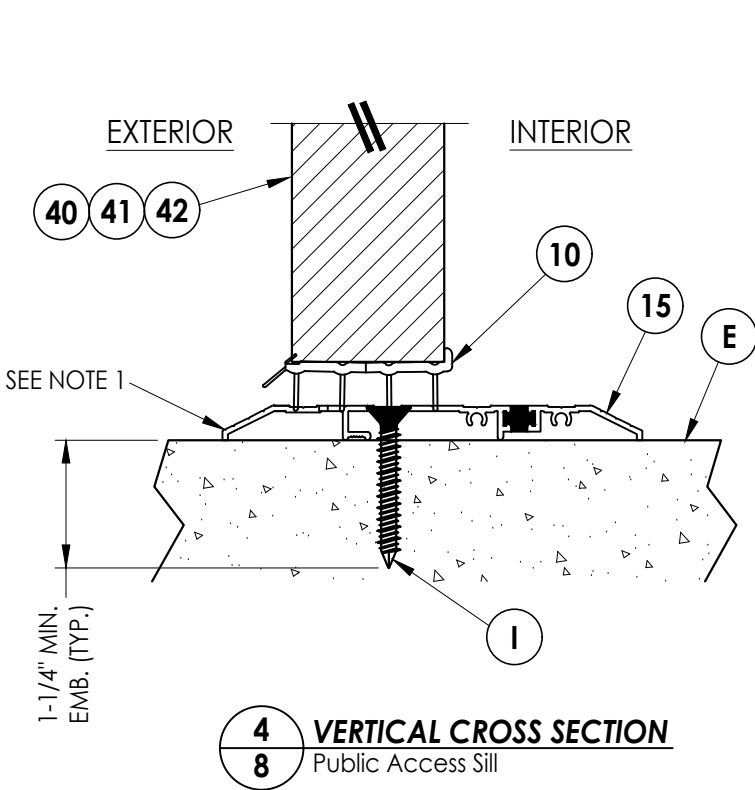
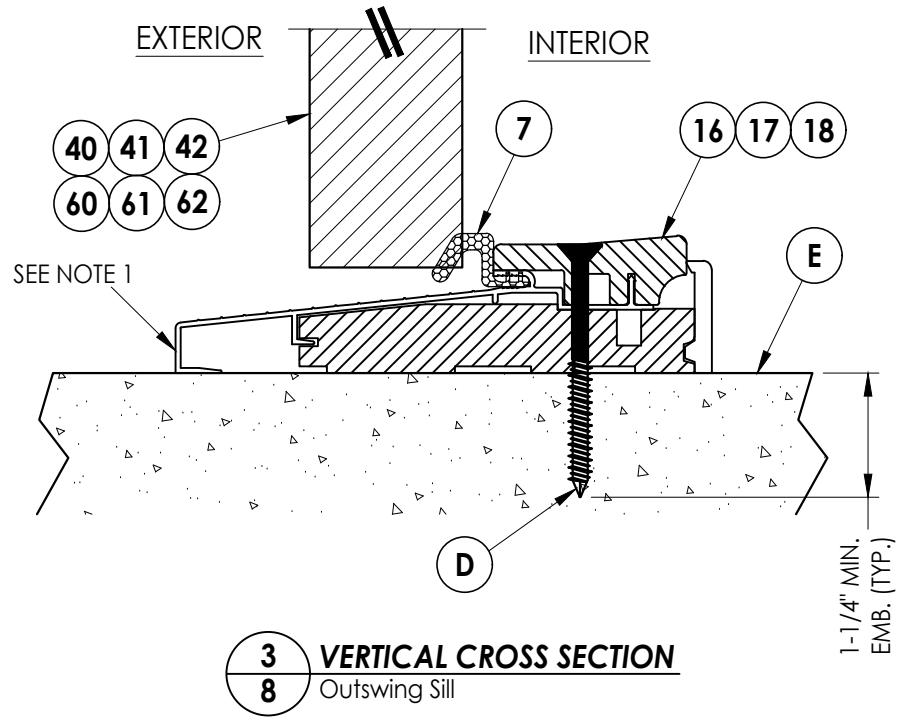
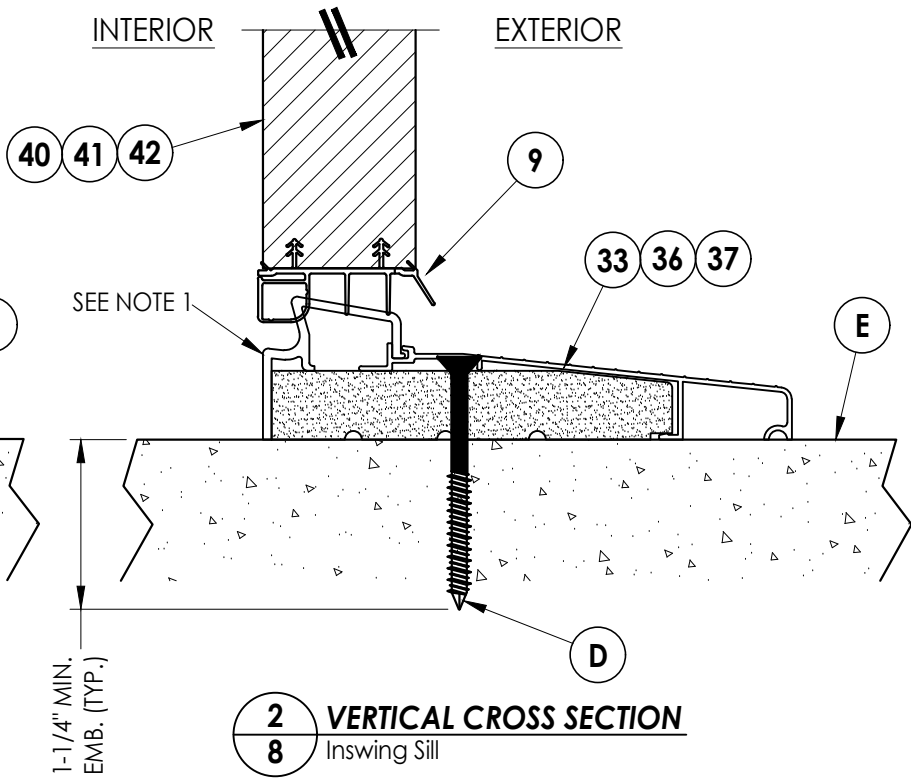
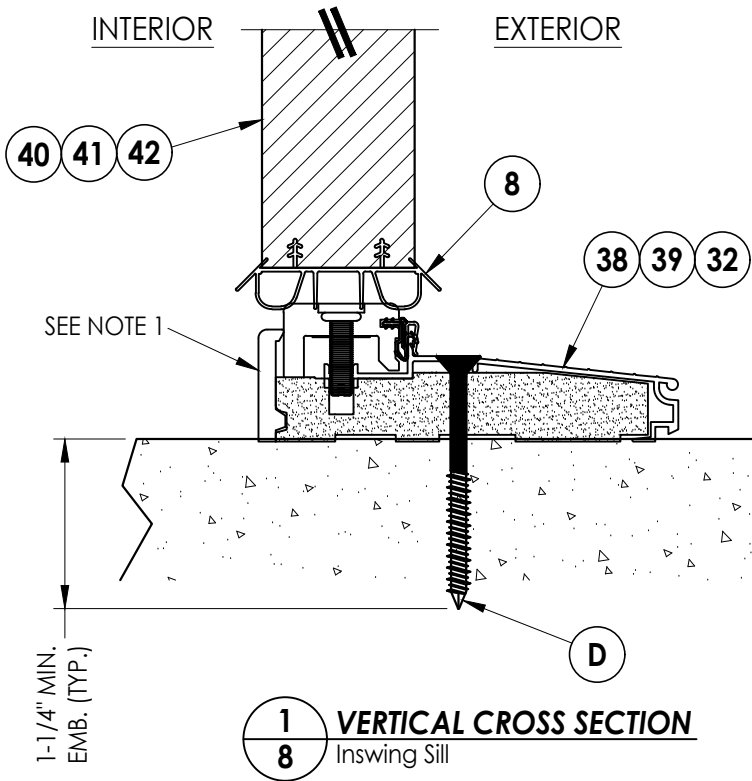
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

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

DATE: 8/02/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21132.14
SHEET 7 OF 14

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- Notes:
- 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 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 screws at each end.
 - Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



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

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

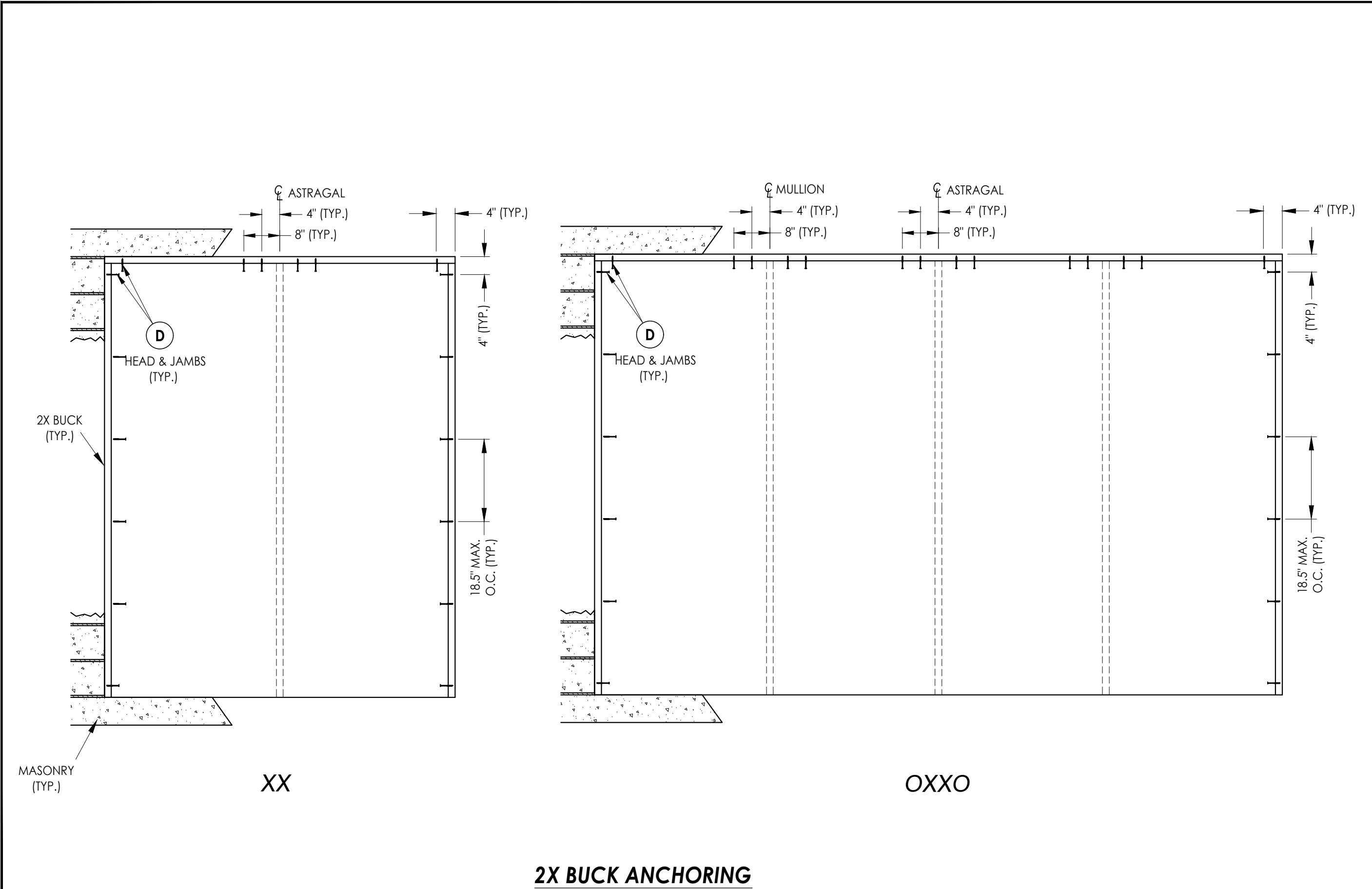
PRODUCT:
THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

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

DATE: 10/12/17
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-21132.14
SHEET 8 OF 14

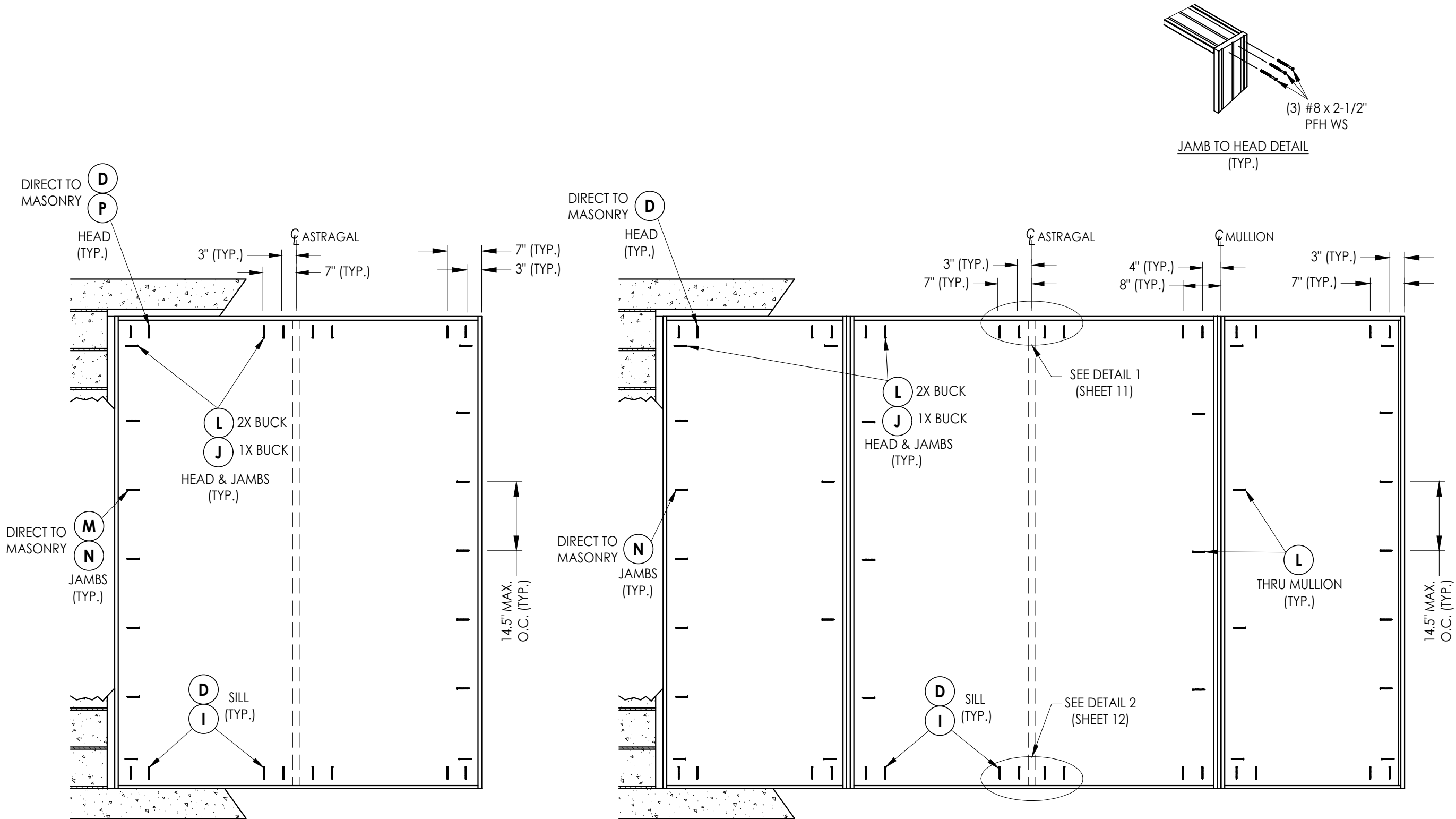
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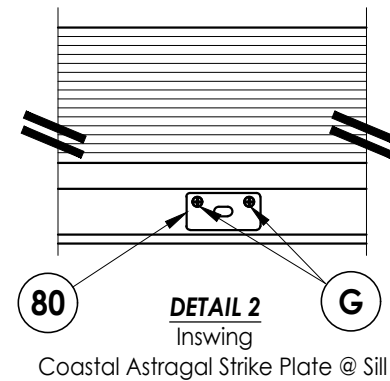
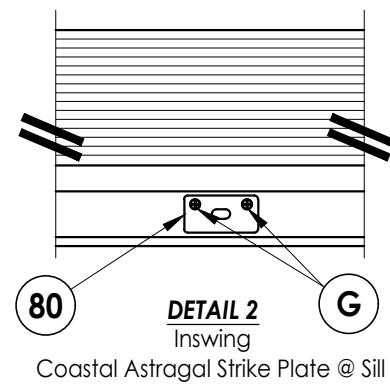
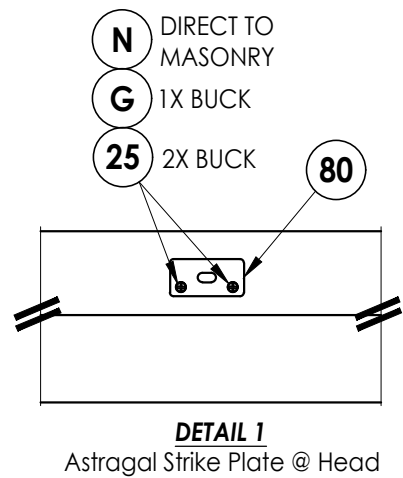
2X BUCK ANCHORING

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			

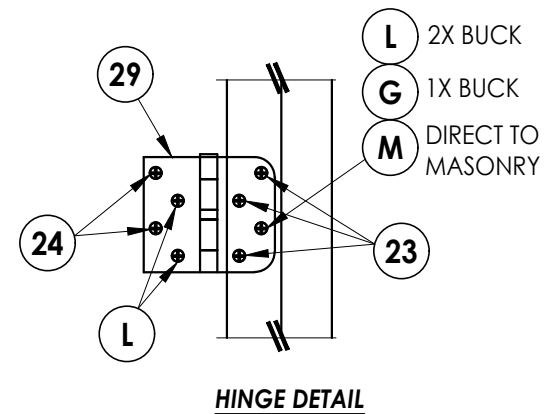
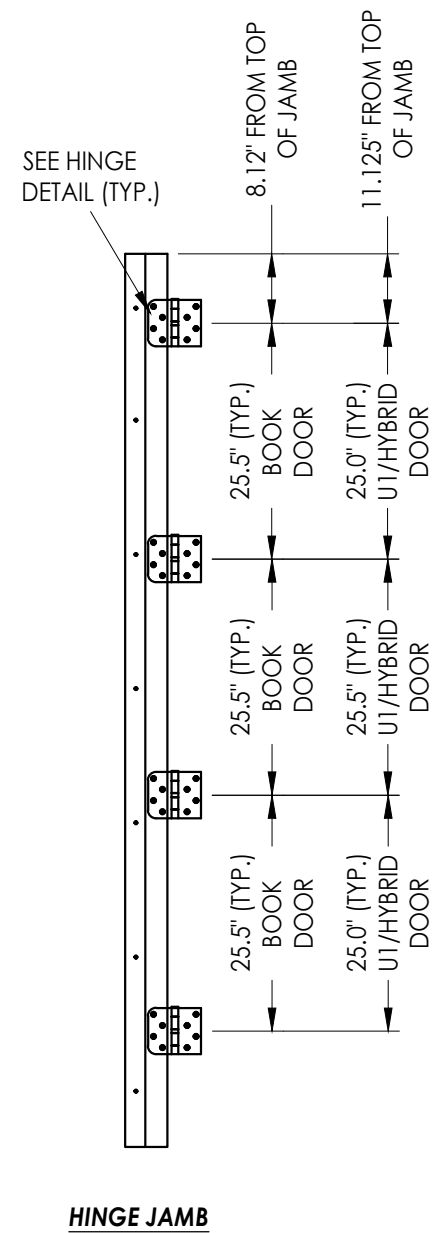
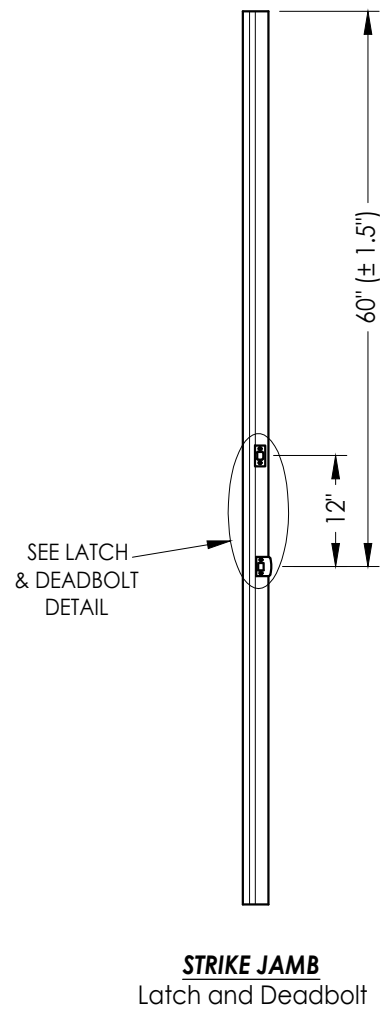
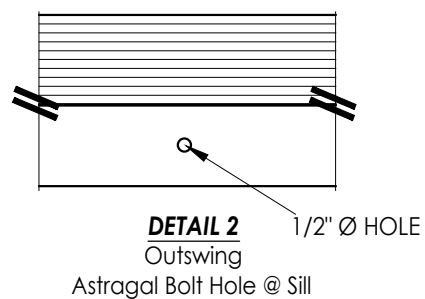
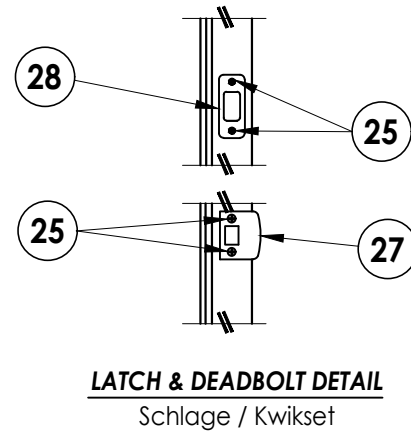
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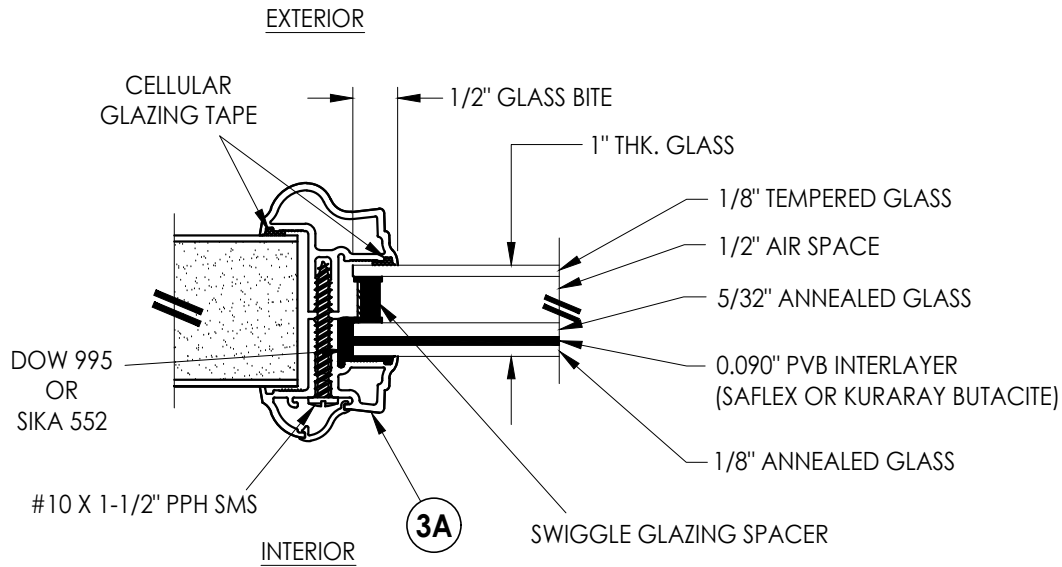
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
		LFS	BY
		FBC	
2	8/07/23	UPDATE TO 8TH ED. (2023)	
1	7/20/20	UPDATE TO 7th ED (2020)	
NO.	DATE		
REVISIONS			
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21132.14			
SHEET 10 OF 14			



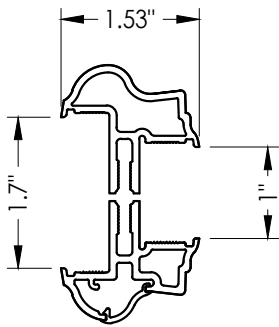
LATCH & DEADBOLT STRIKE DETAILS

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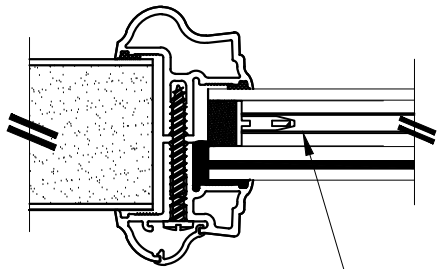
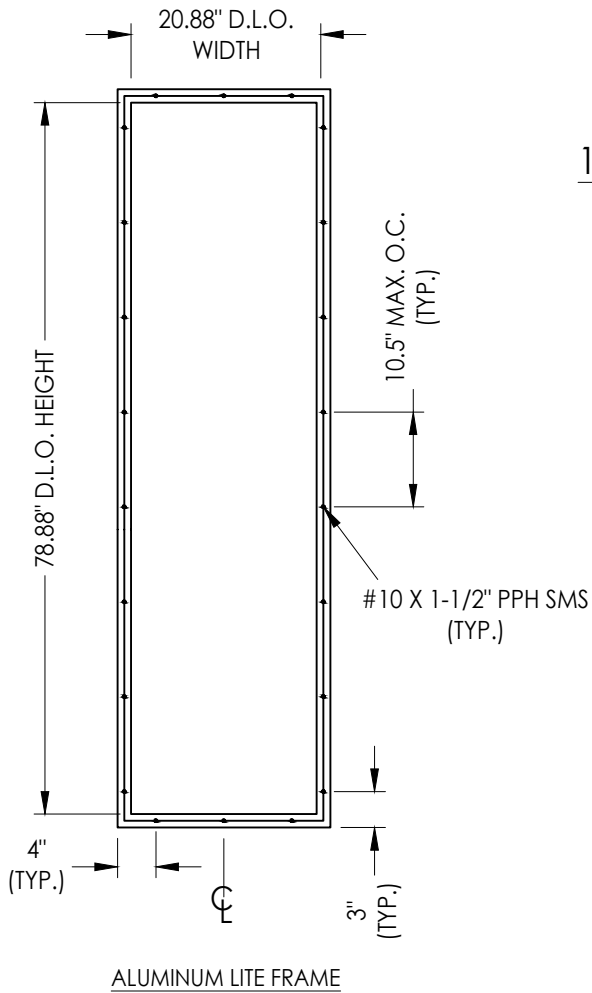
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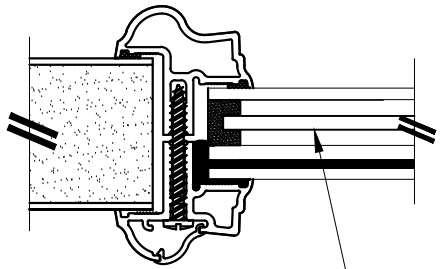
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



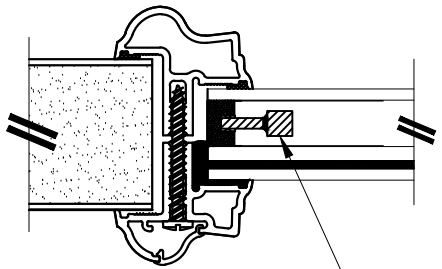
3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites



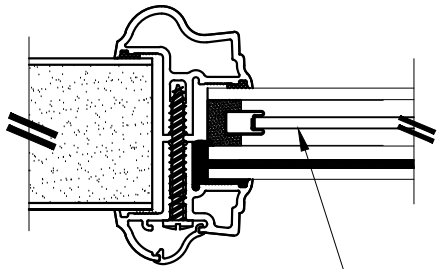
INTERNAL GRID (GBG)



PRIVACY INSERT



WROUGHT IRON INSERT



DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

Documents Prepared By:
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PRODUCT: THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:

GLAZING DETAILS

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

DATE: 8/02/16

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-21132.14

SHEET 12 OF 14

Technical drawing of a mechanical part with the following dimensions:

- Overall height: 1.25"
- Overall width: 4.56"
- Overall depth: 0.75"
- Internal width dimension: 2.36"

Technical drawing of a mechanical part. The drawing shows a side view of a component with a wavy, undulating top surface. The overall width is 6.56 inches. The overall height is 1.25 inches. The overall depth is 0.75 inches. A specific section of the part, located towards the right side, has a width of 4.36 inches. This section features a small, rectangular protrusion on its bottom surface. The drawing is a black and white line drawing with dimension lines and arrows indicating the measurements.

Technical drawing of a Flush Bolt Retainer. The drawing shows a cross-section of the component with the following dimensions and labels:

- Overall width: 1.91"
- Width of the central section: 0.126"
- Thickness of the central section: 0.063"
- Labels: FLUSH BOLT and FLUSH BOLT RETAINER (with arrows pointing to the respective parts).

Technical drawing of a cross-section of a beam. The drawing shows a wide top flange with a thickness of 0.082 inches. The total width of the flange is 6.0 inches. The web of the beam has a thickness of 0.5 inches. The cross-section includes a central vertical web and several horizontal stiffeners or ribs.

Technical drawing of a rectangular object, possibly a component of a machine. The drawing shows a side view with a handle on the left and a textured base. Dimensions are indicated: a height of 1.55" and a length of 5.75".

Side elevation drawing of the building. The drawing shows a sloped roof and a textured wall. Dimensions are indicated: a vertical height of 1.55' and a horizontal length of 7.5'.

A cross-sectional diagram of a beam. The total width is labeled as 2.18". The total height is labeled as 1.5". A central hole is shown with a diameter of 0.08". The beam has a T-shaped profile with a horizontal flange and a vertical web. The flange has a central hole. The web is attached to the bottom of the flange. The hole is located in the center of the flange. The dimensions are given in inches.

Diagram of a C-channel cross-section with dimensions:

- Total width: 2.14"
- Total height: 1.32"
- Web thickness: 0.08"
- Flange thickness: 0.93"

A technical drawing of a cross-section of a double U-shaped profile. It features two vertical stems connected by two horizontal top bars. The distance between the inner curves of the U-shapes is dimensioned as 1.79".

1.92"

2.06"

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BILL OF MATERIALS			BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL	ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (SG >= 0.42)	WOOD	25	#8 x 2-1/2" PFH WOOD SCREW	STEEL
B	2X BUCK (SG >= 0.42)	WOOD	26	#8 x 5/8" PFH WOOD SCREW	STEEL
C	1/4" MAX. SHIM SPACE	-	27	LATCH STRIKE PLATE	STEEL
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	28	DEADBOLT STRIKE PLATE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	29	4" X 4" HINGE	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	36	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	37	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
P	1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
1	JAMB (FINGER JOINT PINE)	WOOD	41	DOOR PANEL (HYBRID)	-
2	JAMB (FINGER JOINT PINE)	WOOD	42	DOOR PANEL (U1)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	50	SIDELITE (FULL LITE)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	75	SIDELITE SPACER (INSWING)	PVC
8	SWEEP	VINYL	76	SIDELITE SPACER (OUTSWING)	PVC
9	SWEEP (USE W/ MODERATE CLIMATE THRESHOLD)	VINYL	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
10	SWEEP (USE W/ PUBLIC ACCESS THRESHOLD)	VINYL	80	ASTRAGAL STRIKE PLATE	STEEL
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL	88	2X MULLION (SG >= 0.55)	WOOD
15	PUBLIC ACCESS THRESHOLD	ALUM			
16	OUTSWING THRESHOLD	ALUM/COMP			
17	OUTSWING THRESHOLD	ALUM/COMP			
18	OUTSWING THRESHOLD	ALUM/COMP			
20	COASTAL ALUMINUM ASTRAGAL	ALUM			
23	#10 x 3/4" PFH WOOD SCREW	STEEL			
24	#10 x 1" PFH WOOD SCREW	STEEL			

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min.

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.

[illegible]