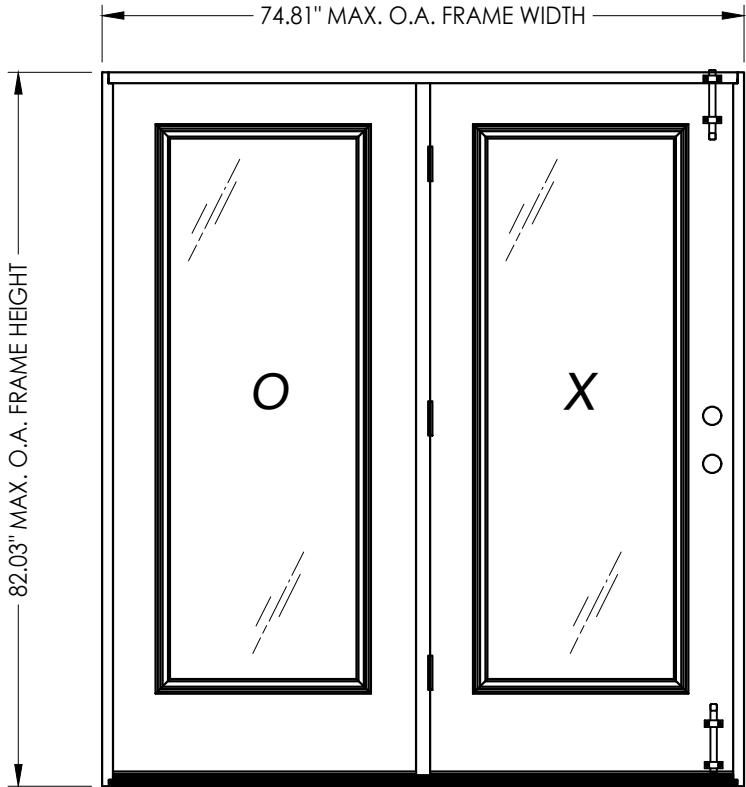


WOOD EDGE
GLAZED STEEL PATIO DOOR
CHS - Center Hinged
INSWING
"NON-IMPACT"

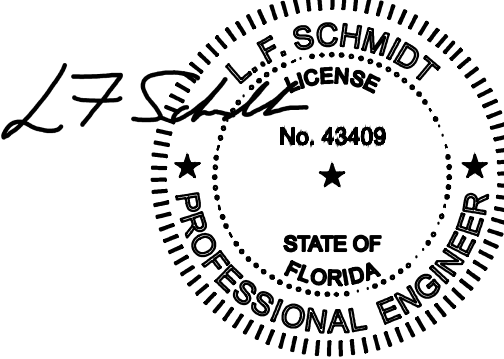
GENERAL NOTES

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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS, DESIGN PRESSURES AND GENERAL NOTES
2	DOOR PANEL CROSS SECTIONS & GLAZING DETAILS
3	HORIZONTAL CROSS SECTIONS
4	VERTICAL CROSS SECTIONS
5	VERTICAL CROSS SECTIONS
6	BUCK & FRAME ANCHORING
7	BILL OF MATERIALS & COMPONENTS



CONFIGURATION	DESIGN PRESSURE (PSF) INSWING	
	POSITIVE	NEGATIVE
OX, XO	+48.67	-64.0



Digitally signed by Lyndon F Schmidt
Date: 2023.08.07 14:02:28 -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

PRODUCT:
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

7/14/20

UPDATE TO 7TH ED (2020)

FBC

LFS

NO.

DATE

BY

REVISIONS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

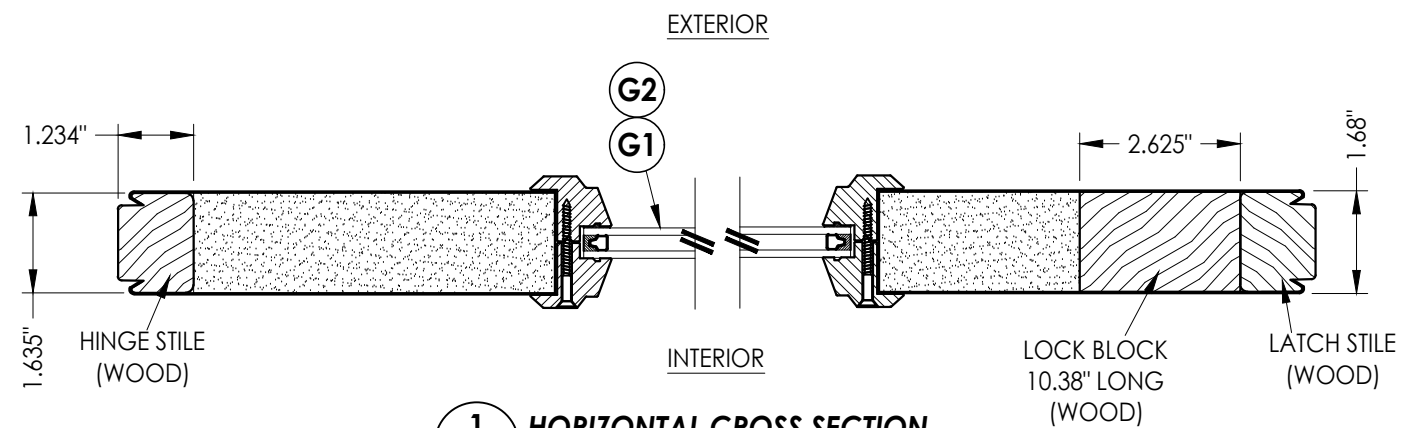
CHK. BY: LFS

DRAWING NO.:
FL-21131.13

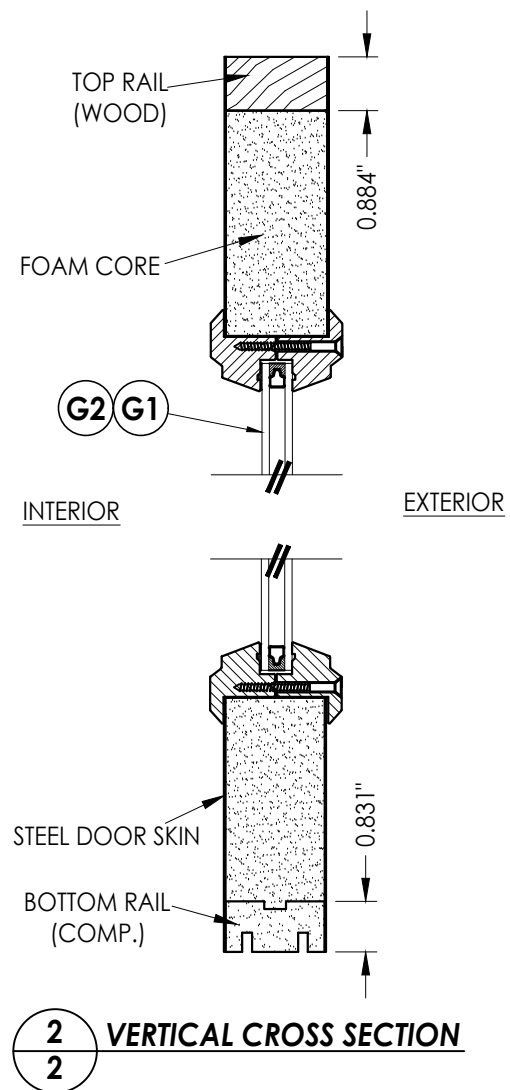
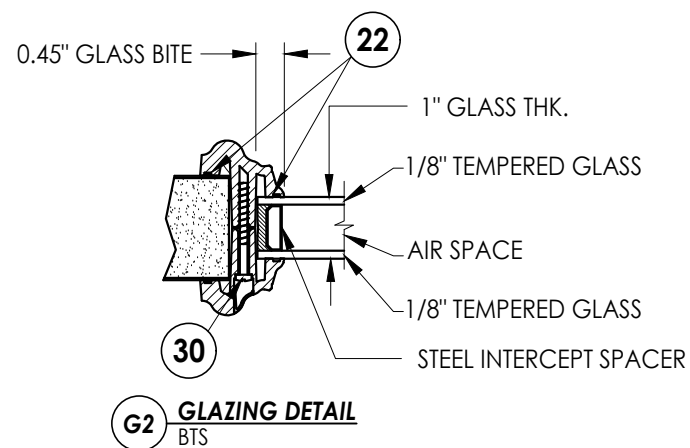
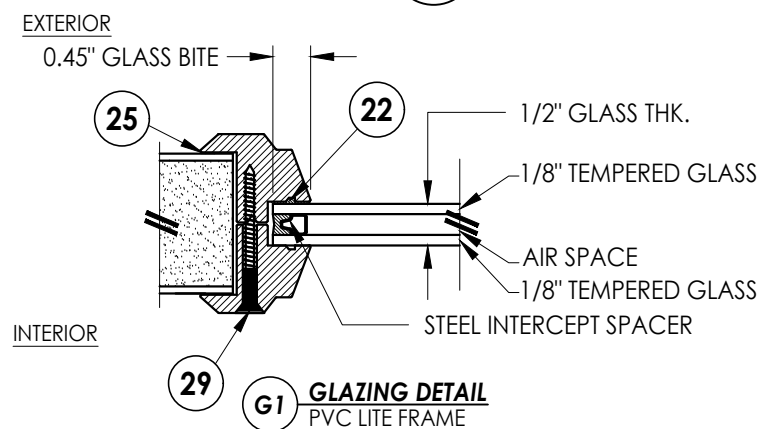
SHEET 1 OF 7

RW

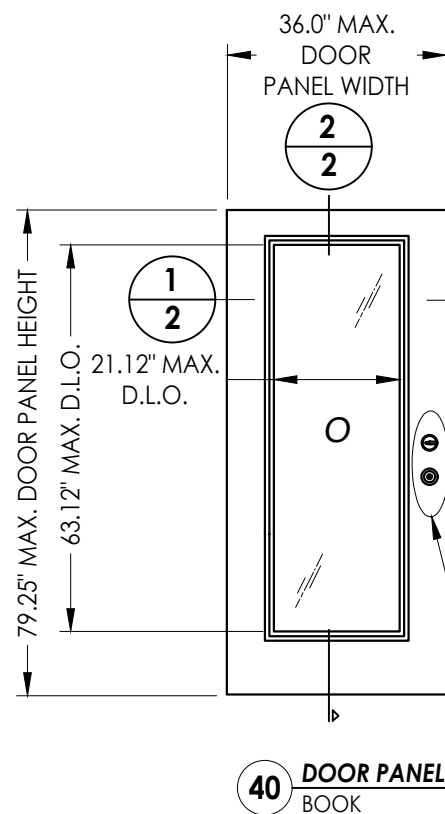
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



1 HORIZONTAL CROSS SECTION

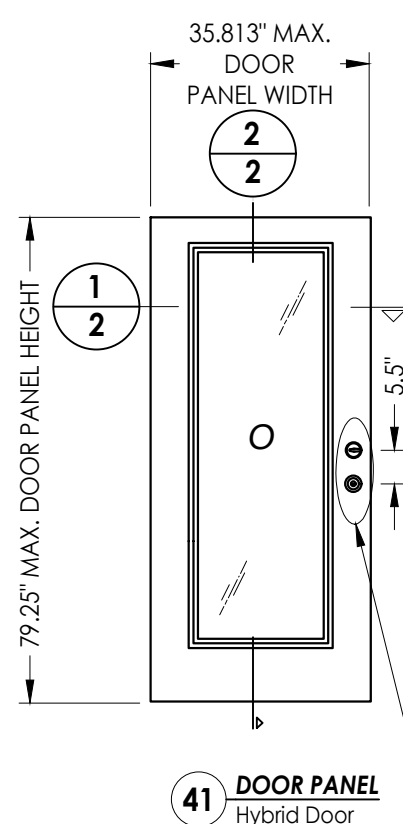


2 VERTICAL CROSS SECTION
2



40 **DOOR PANEL**
BOOK

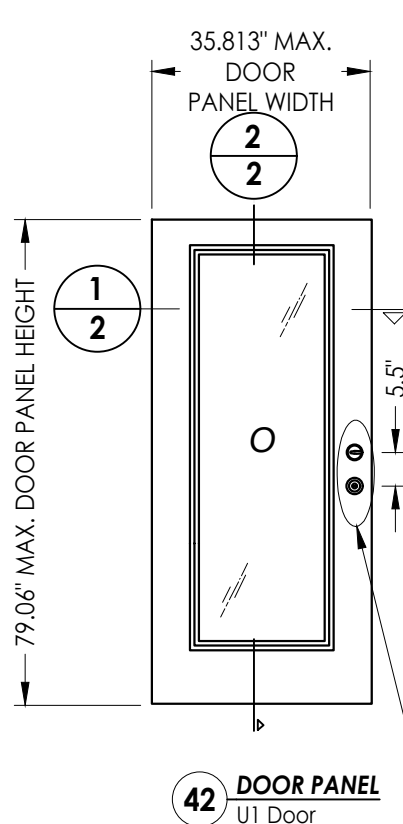
SEE HARDWARE CHART



41 DOOR PANEL

Hybrid Door

SEE HARDWARE CHART



42 DOOR PANEL

U1 Door

SEE HARDWARE CHART

HARDWARE TABLE	
MANUFACTURER	MODEL
KWIKSET	KNOB: KWIKSET SERIES DEADBOLT: KWIKSET SERIES (660)

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	
REVISIONS					

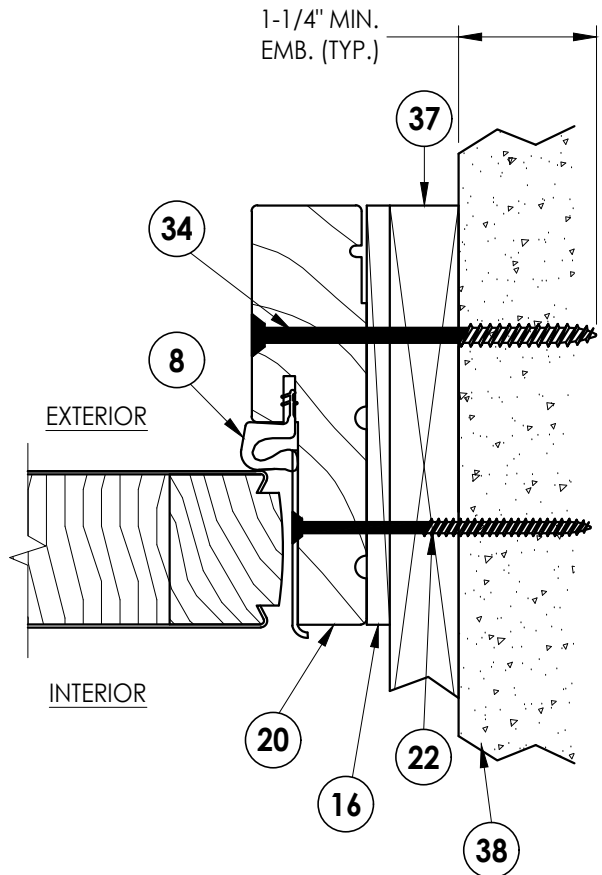
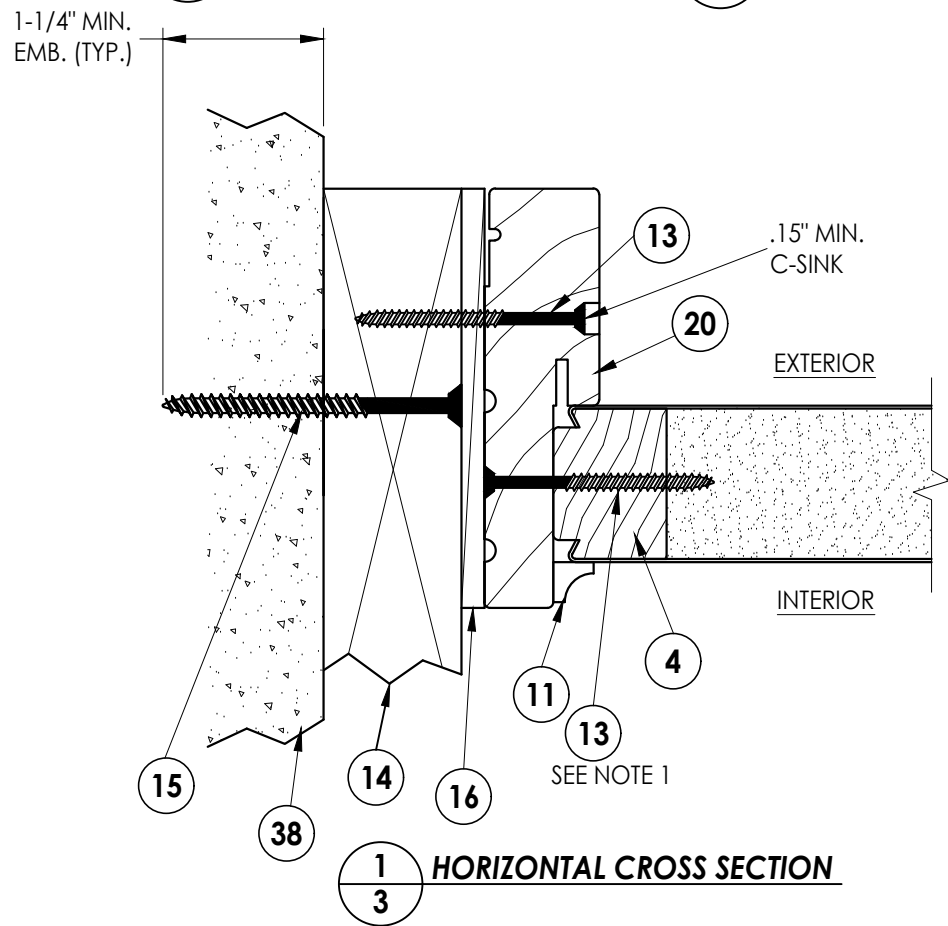
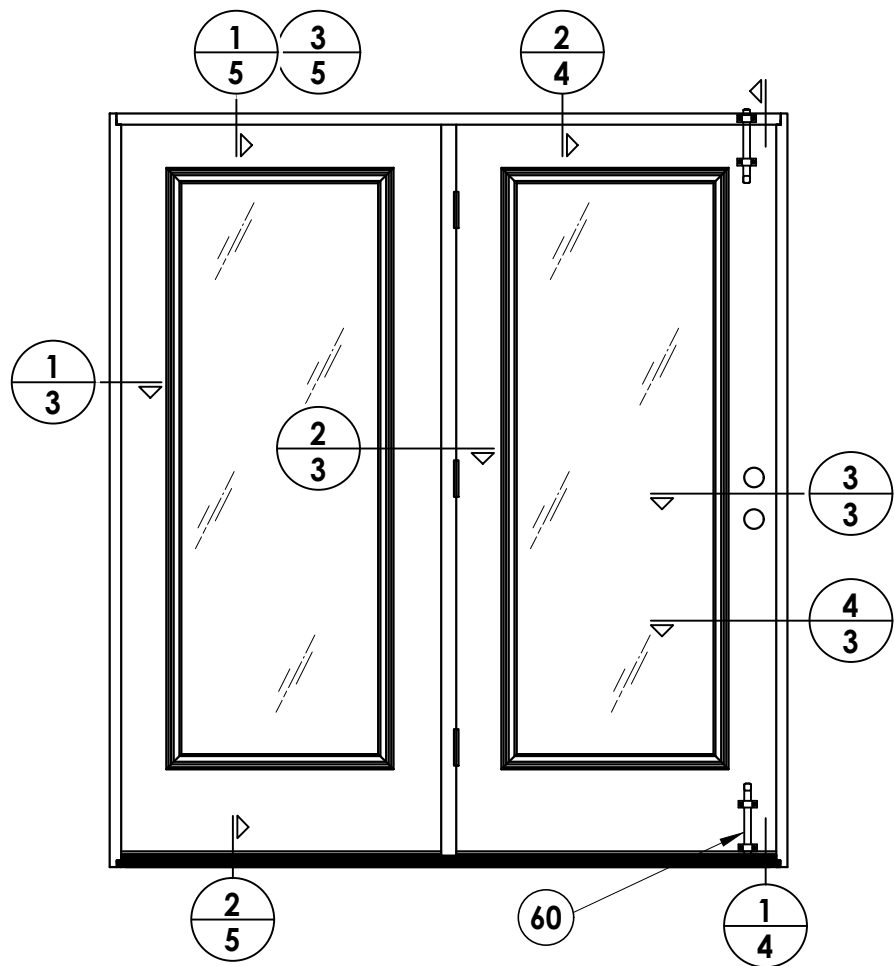
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21131.13
SHEET	2 OF 7

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

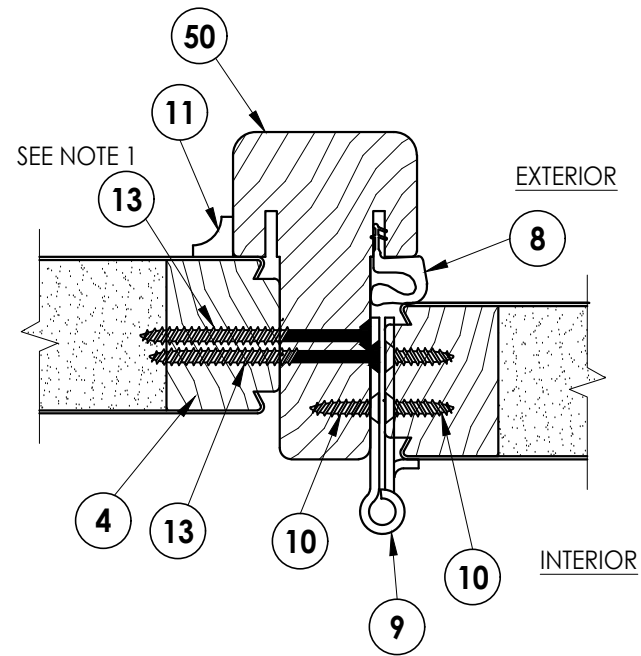
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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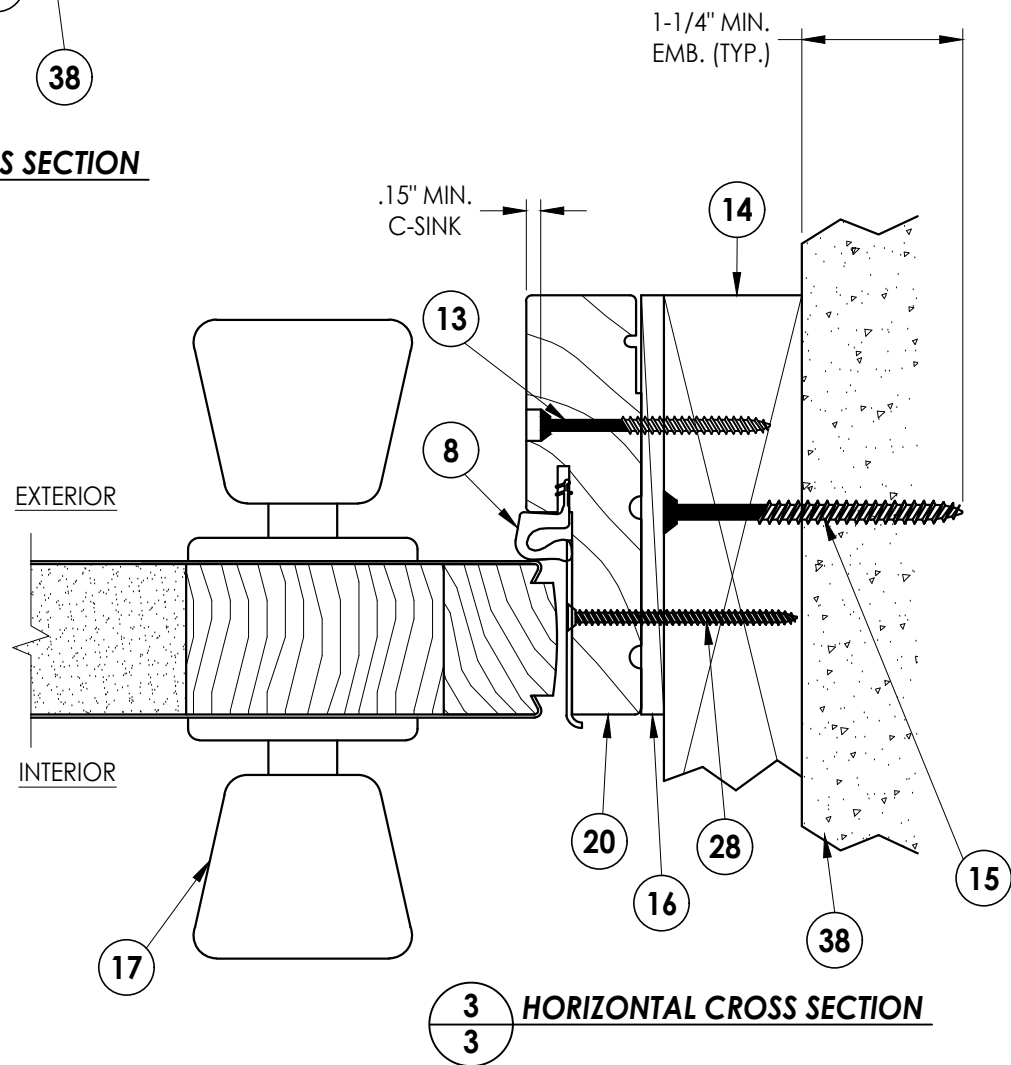
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4
3 HORIZONTAL CROSS SECTION



2
3 HORIZONTAL CROSS SECTION



3
3 HORIZONTAL CROSS SECTION

NOTES:

1. The sidelite is direct set into the jamb with item #13 at 6" from the top & bottom plus 2 more equally spaced (4 total).

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

PRODUCT:
THERMA-TRU
STEEL DOOR

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

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS		
		BY	LFS	FBC
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1	7/14/20	UPDATE TO 7TH ED (2020)	FBC	LFS

DATE: 10/12/17

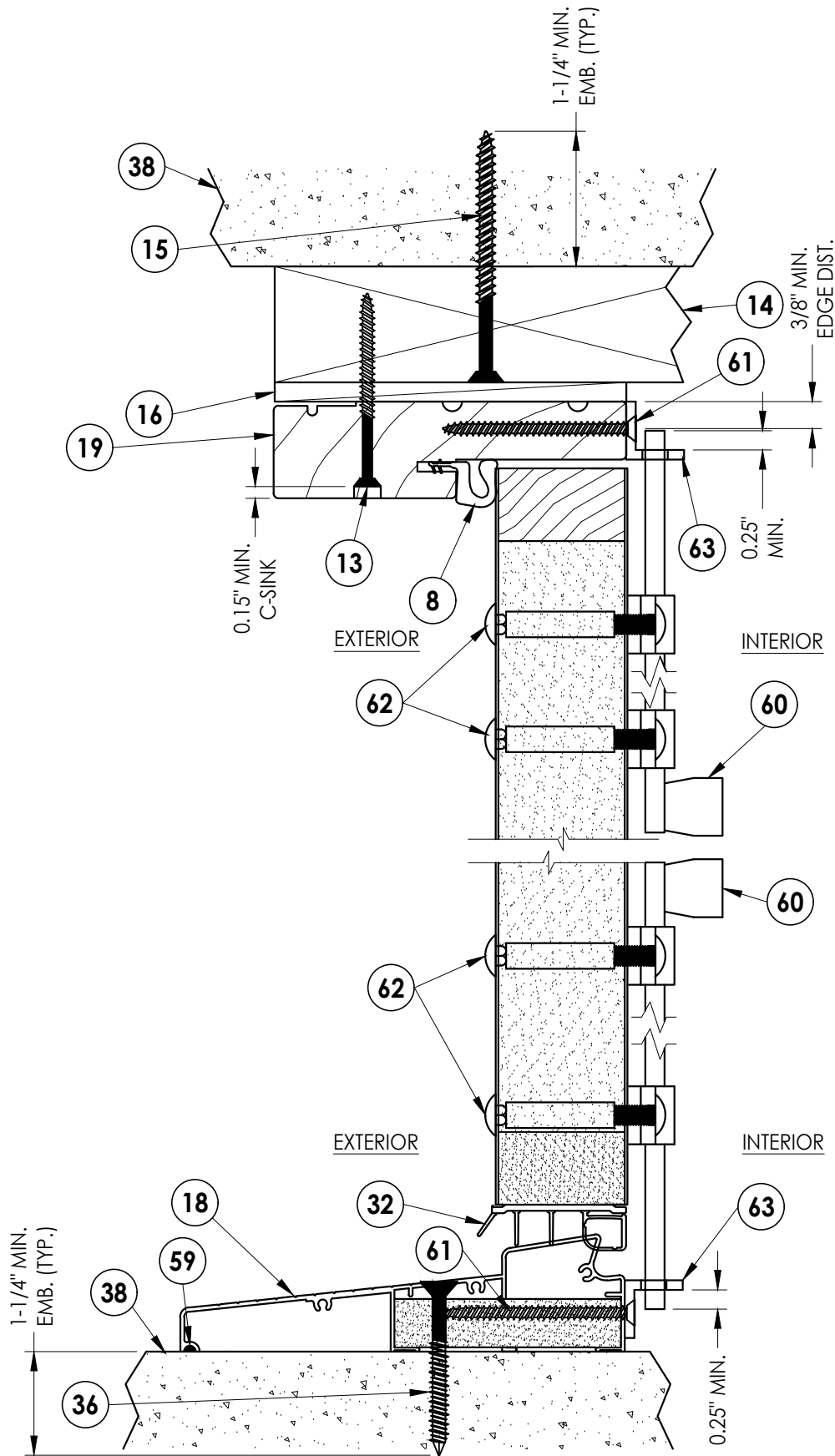
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DWG. BY: JK

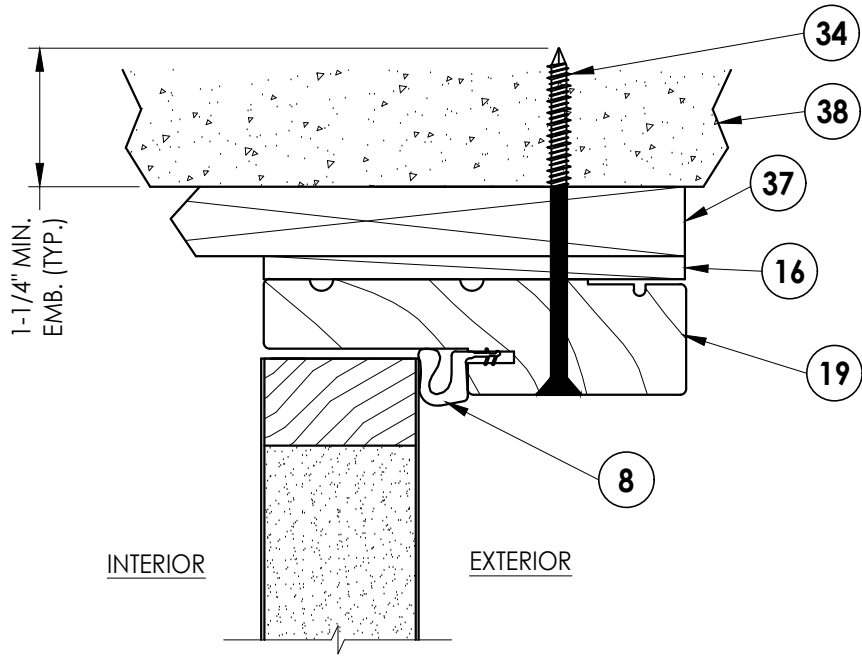
CHK. BY: LFS

DRAWING NO.:
FL-21131.13

SHEET 3 OF 7



1
4 VERTICAL CROSS SECTION



2
4 VERTICAL CROSS SECTION
SHOWN w/ 1X SUB-BUCK

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

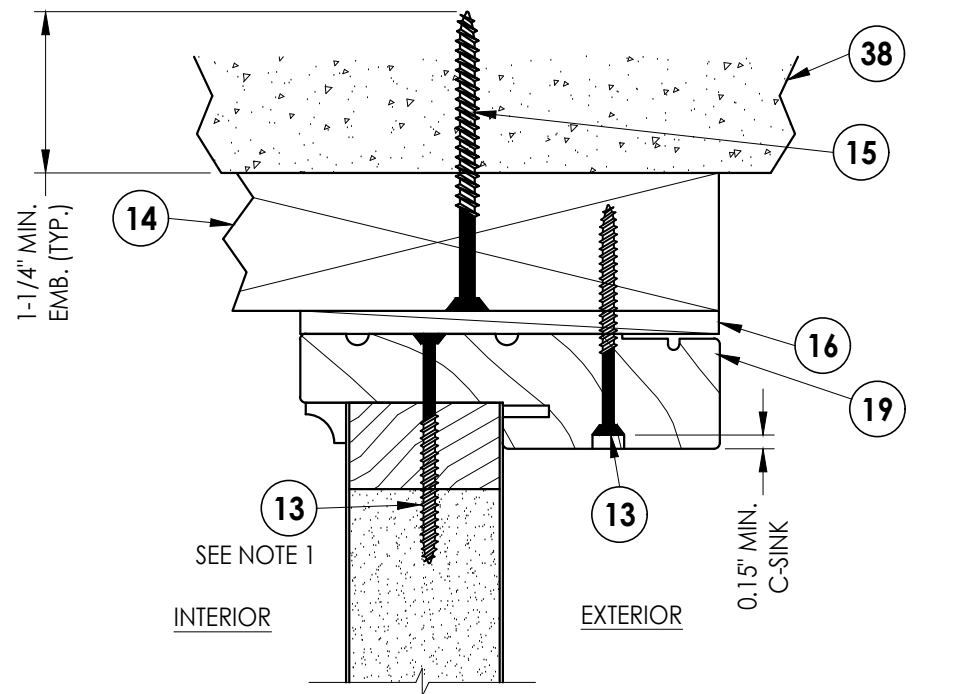
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SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21131.13
SHEET	4 OF 7

PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

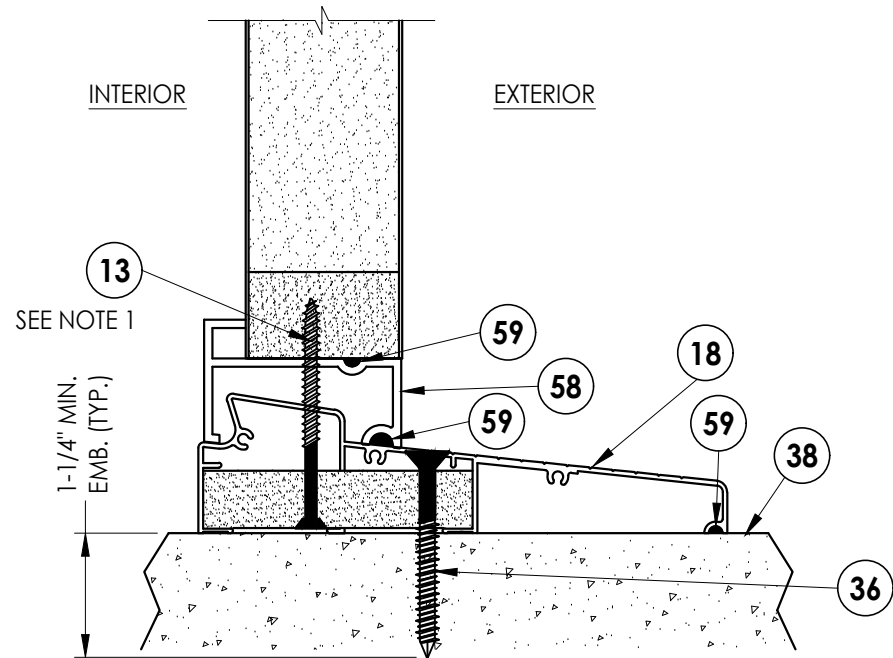
Documents Prepared By:
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P.E. No. 43409

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

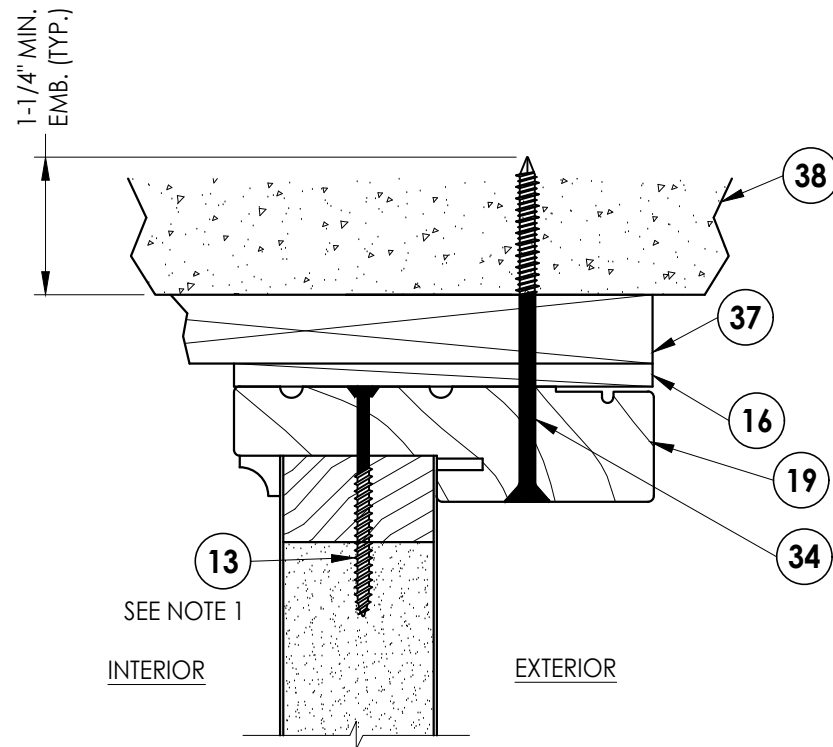
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1
5 VERTICAL CROSS SECTION



2
5 VERTICAL CROSS SECTION



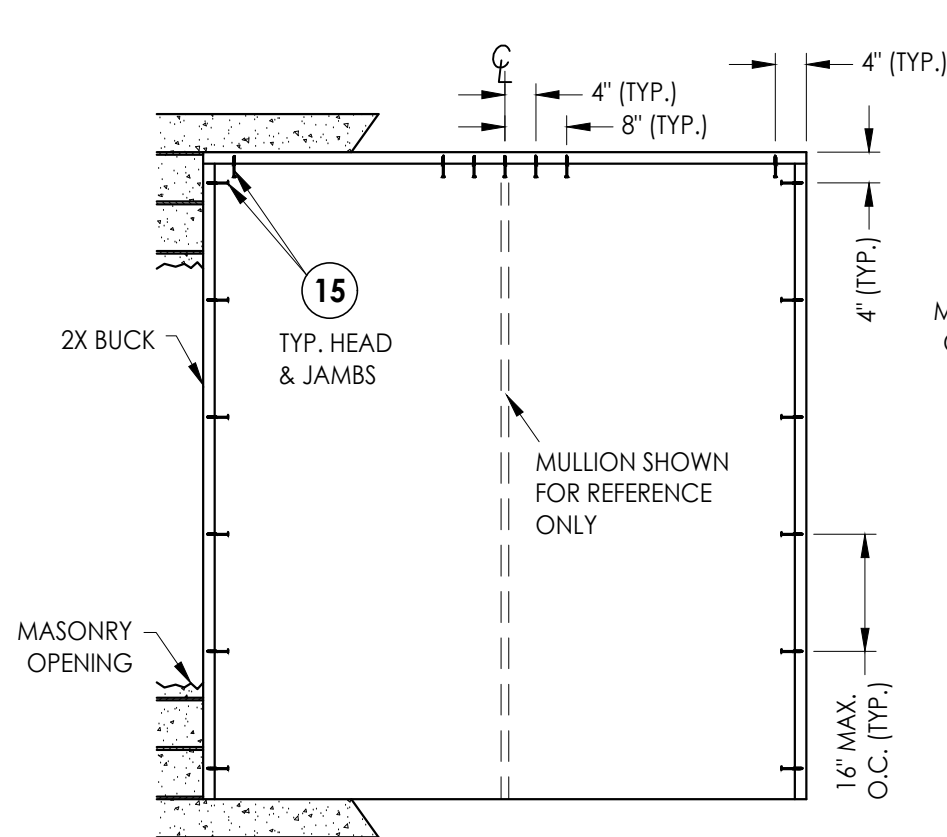
3
5 VERTICAL CROSS SECTION
SHOWN w/ 1X SUB-BUCK

NOTES:

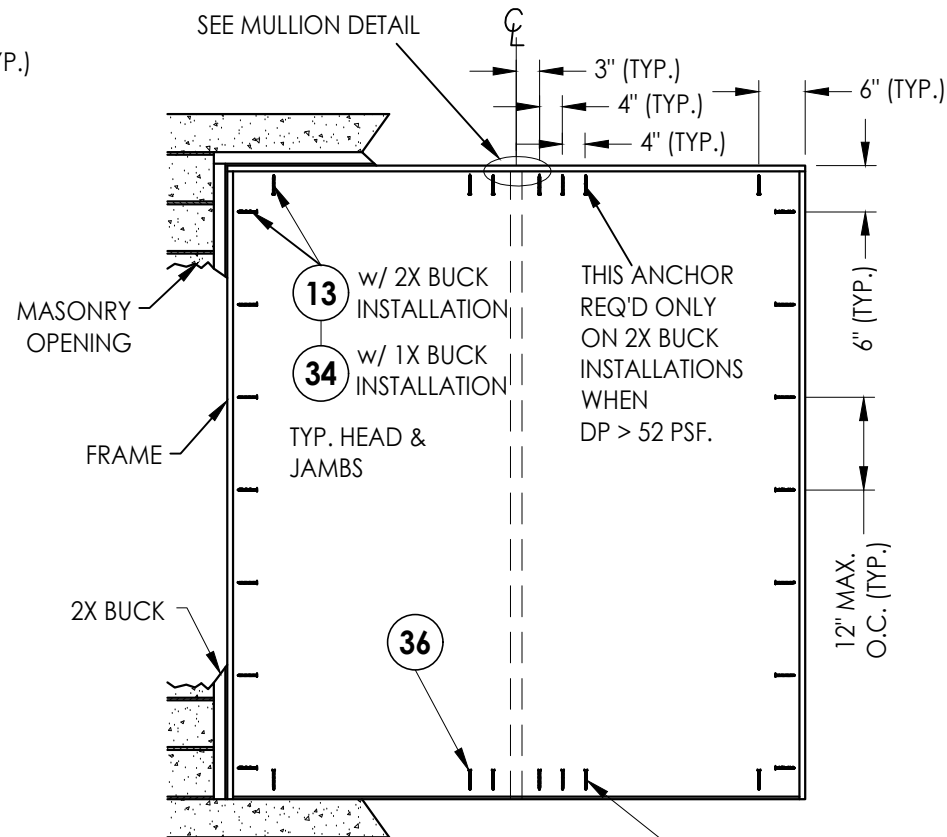
1. The sidelite is direct set into the head & sill with item #13 at 6" from each end and @ centerline (3 total).

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: VERTICAL CROSS SECTIONS	
		LFS	BY
		FBC	
2	8/07/23	UPDATE TO 8TH ED. (2023)	FBC
1	7/14/20	UPDATE TO 7TH ED (2020)	FBC
NO.	DATE	REVISIONS	
DATE: 10/12/17			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-21131.13			
SHEET 5 OF 7			

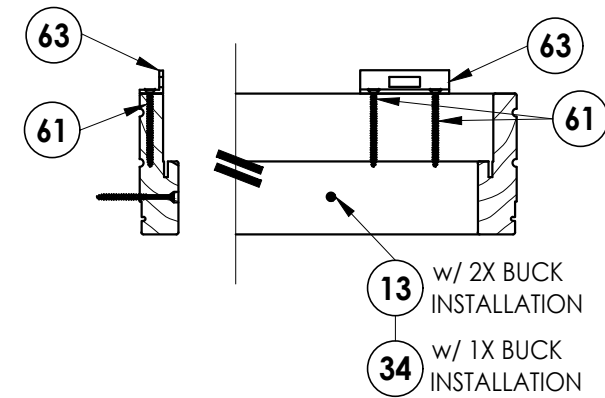
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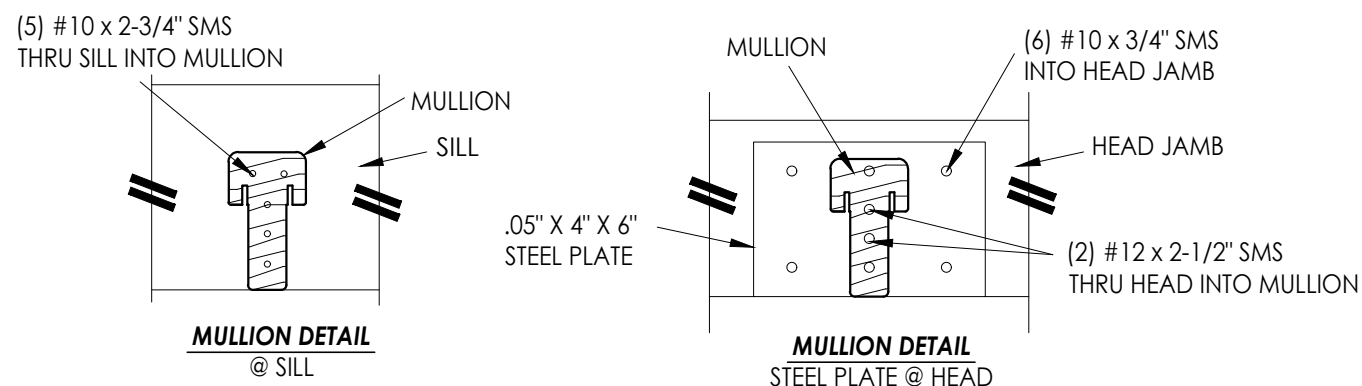
BUCK ANCHORING



FRAME ANCHORING

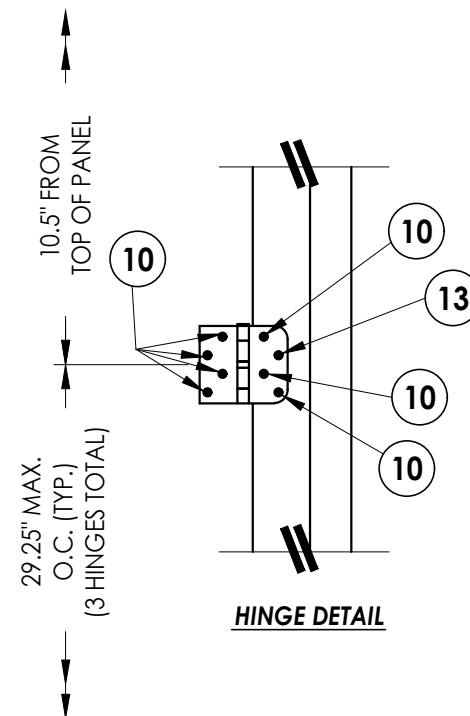


DETAIL "2"
SURFACE BOLT @ HEAD

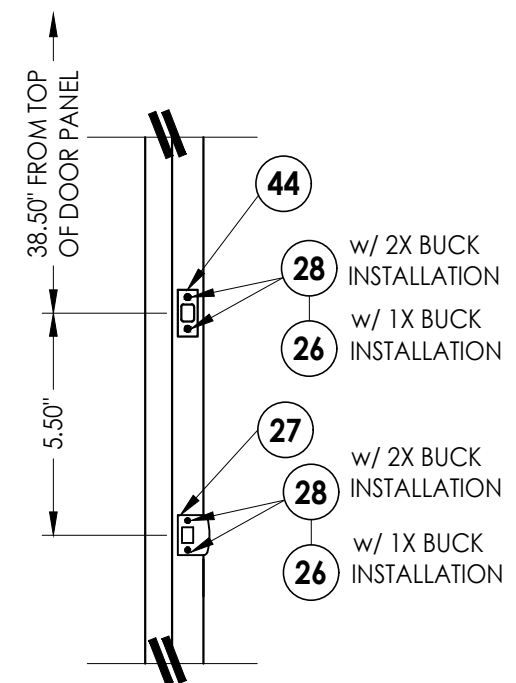


MULLION DETAIL
@ SILL

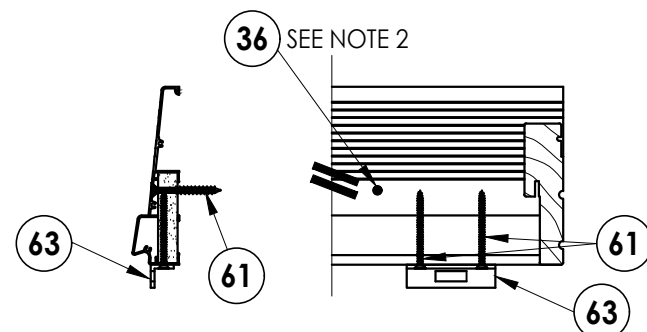
MULLION DETAIL
STEEL PLATE @ HEAD



HINGE DETAIL



LATCH & DEABOLT DETAIL



DETAIL "1"
SURFACE BOLT @ 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
STEEL DOOR

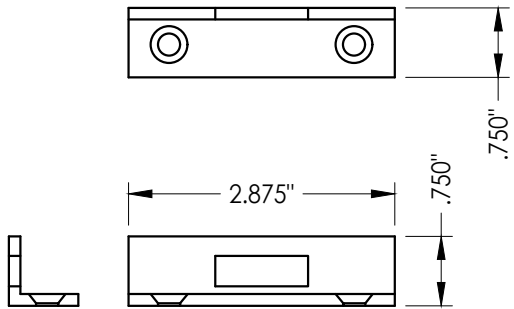
PART OR ASSEMBLY:
BUCK & FRAME
ANCHORING

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

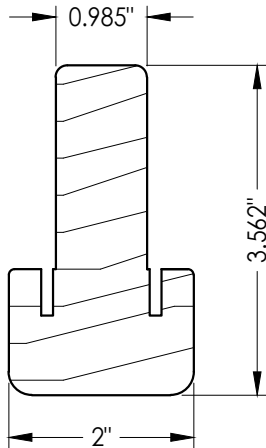
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-21131.13
SHEET 6 OF 7

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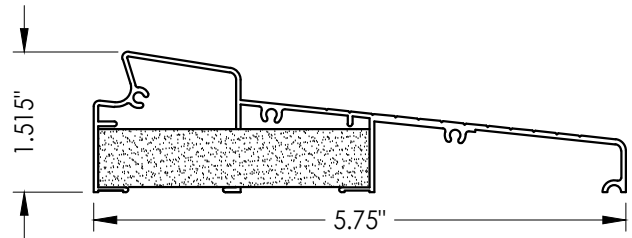
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
8	COMPRESSION WEATHER-STRIP	FOAM
9	4" X 4" SELF LOCATING HINGE .097" THK.	STEEL
10	#10 X 3/4" PFH WOOD SCREW	STEEL
11	COVE MOLDING	-
13	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
14	2X BUCK (SG >= 0.55)	WOOD
15	1/4" X 2-3/4" DeWALT CONCRETE SCREW	STEEL
16	MAX. 1/4" SHIM SPACE	WOOD
18	THRESHOLD INSWING (THERMA-TRU)	ALUM./WOOD
19	HEADER JAMB (PINE, S.G. >= 0.42)	WOOD
20	SIDE JAMB (PINE, S.G. >= 0.42)	WOOD
22	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
25	GLAZING COMPOUND (BOSTIK HOT-MELT)	SILICONE
26	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL
27	LATCH STRIKE	STEEL
28	#8 X 2-1/2" PFH WOOD SCREW	STEEL
32	DUAL DUROMETER ACTIVE DOOR SWEEP	PVC
34	1/4" X 3-3/4" ITW CONCRETE SCREW	STEEL
36	1/4" X 2-3/4" ITW CONCRETE SCREW	STEEL
37	1X BUCK (SG >= 0.55)	WOOD
38	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
41	1/4" X 3-1/4" ITW CONCRETE SCREW	STEEL
44	DEADBOLT STRIKE PLATE	STEEL
48	#8-10 X 1-1/2" PPH PLASCREW	STEEL
50	MULLION (PINE, S.G. >= 0.42)	WOOD
56	#10 X 1" PFH SCREW	STEEL
57	#7 X 1-1/2" PFH SCREW	STEEL
58	FIXED PANEL THRESHOLD ADAPTER	-
59	SEALANT 1/8" THK. CELLULAR GLAZING TAPE (STIK-II TAPE)	SILICONE
60	H.B. IVES SURFACE MOUNTED SLIDE BOLT w/ 1/2" THROW	STEEL
61	#10 X 2-1/2" PFH SCREW	STEEL
62	1/4"-20 SEX BOLT w/ 1/4"-20 FEMALE END	STEEL
63	SURFACE BOLT STRIKE PLATE	STEEL



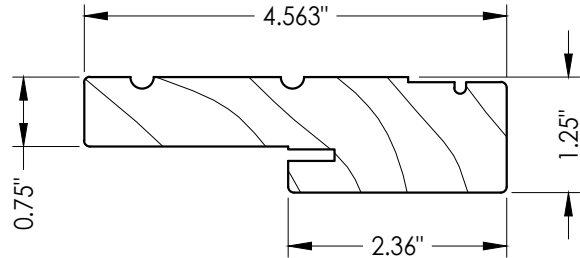
63 SURFACE BOLT STRIKE PLATE



50 MULLION



18 INSWING THRESHOLD



19 20 HEAD & SIDE JAMB

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"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	1-1/2"

WOOD SCREW INSTALLATION NOTES:

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

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

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

PRODUCT:

THERMA-TRU
STEEL DOOR

PART OR ASSEMBLY:

BILL OF MATERIALS &
COMPONENTS

REVISIONS

DATE: 10/12/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21131.13

SHEET 7 OF 7