

THERMA-TRU® DOORS

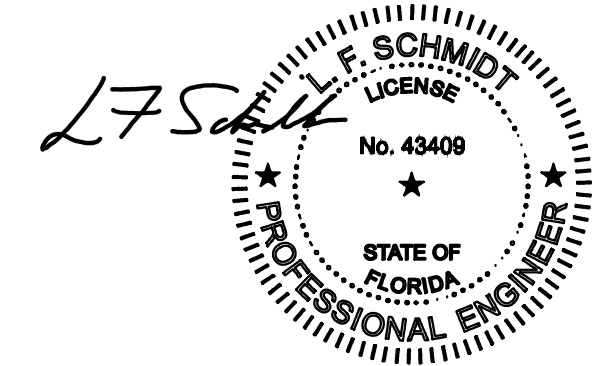
Fiber-Classic® & Smooth-Star®

CUT DOWN WOOD EDGE OPAQUE FIBERGLASS SINGLE DOOR OUTSWING "IMPACT"

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 Section 1626 of the FBC and does not require an impact resistant covering.
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.
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. This product meets the water infiltration requirements for the "HVHZ".
8. Outswing configurations using Coastal Sill (item #19) & Composite Sill (item #16) under active doors 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.

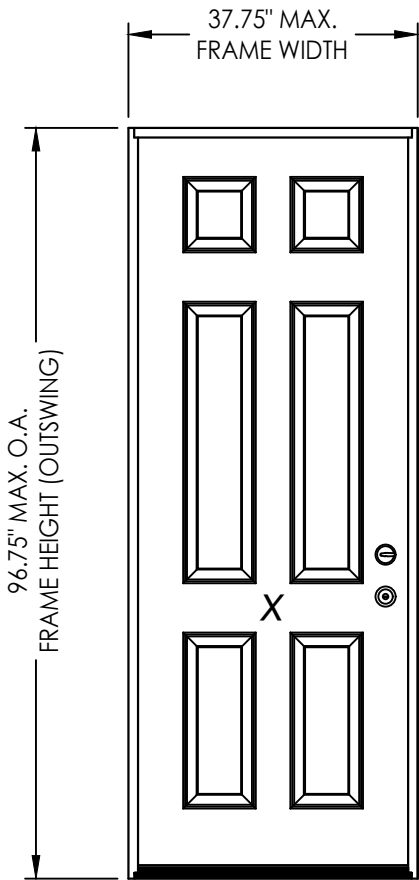
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6	Horizontal & Vertical Cross Sections (Direct to Masonry)		



Digitally signed by Lyndon F Schmidt
Date: 2023.08.18 10:05:05 -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	LOCK HARDWARE	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
X	Latch & Deadbolt	+55.0	-55.0
X	Multipoint	+70.0	-70.0

See Sheet 3 for Hardware Specifications

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

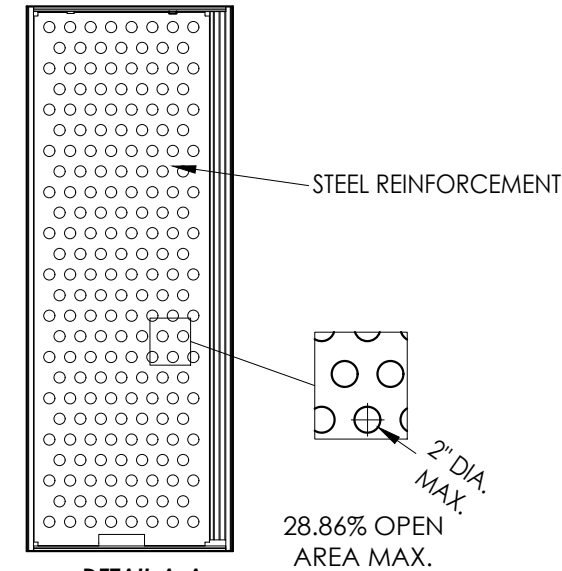
RW

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: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
		LFS	PO
		BY	
		REVISIONS	
		2	8/17/23 UPDATE TO 8TH ED. (2023) FBC
		1	7/15/20 UPDATE TO 7th ED (2020) FBC
		NO.	DATE
DATE: 08/12/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-30077.4			
SHEET 1 OF 11			

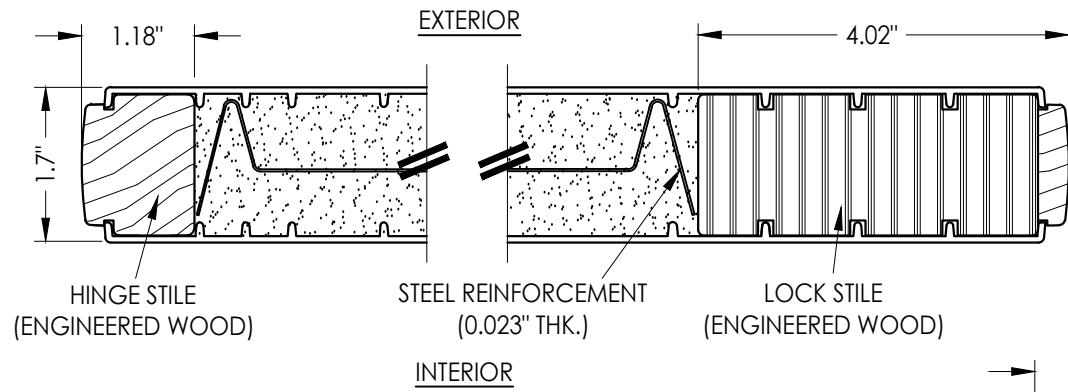
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G:\2023 FBC DRAWINGS\Therma-Tru\FL-30077 R2\FL-30077 4-6.dwg

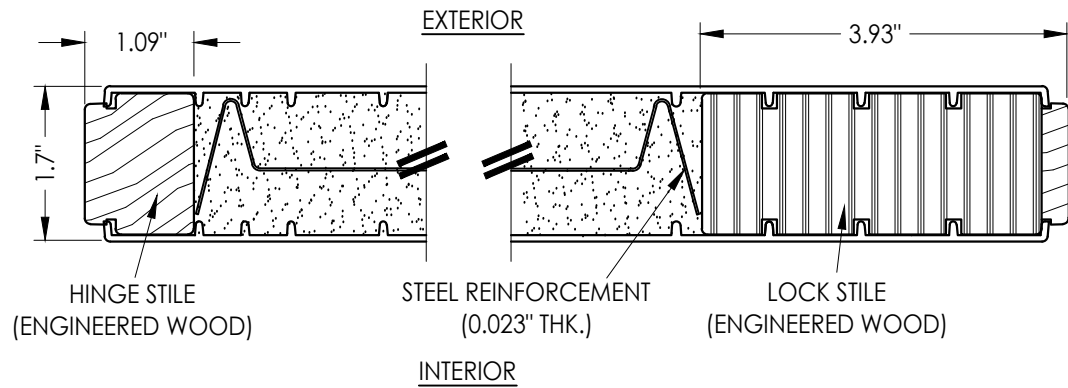


DETAIL A-A
PANEL REINFORCEMENT
(0.023" Thick Steel)

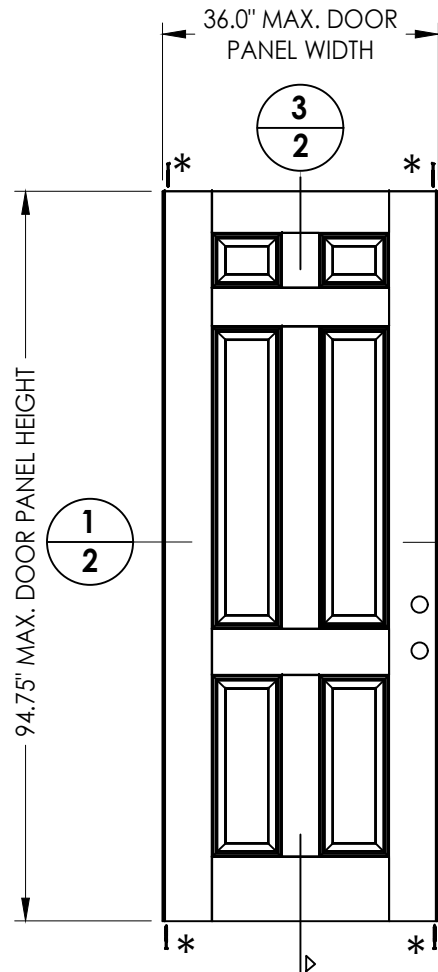
* #8 X 2.5" PFH WS (TYP. @ EACH DOOR CORNER)



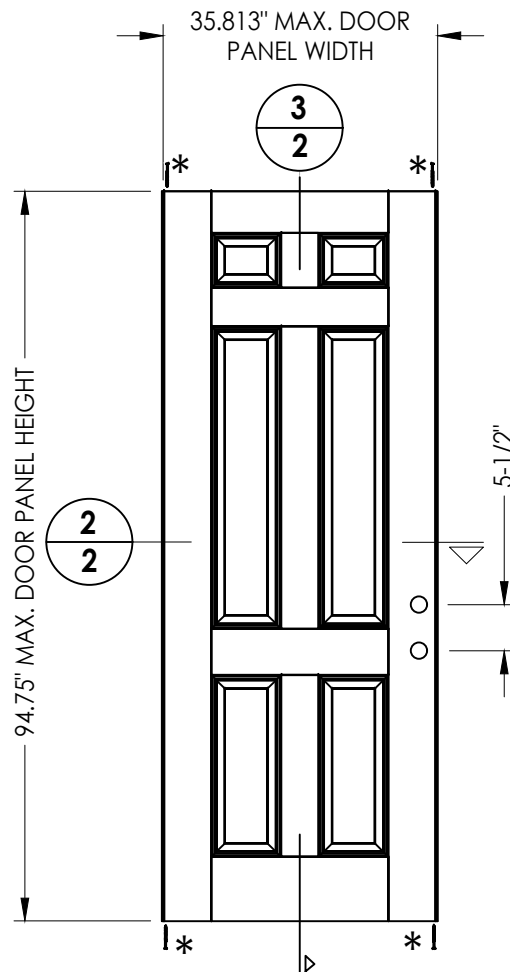
1 2 HORIZONTAL CROSS SECTION



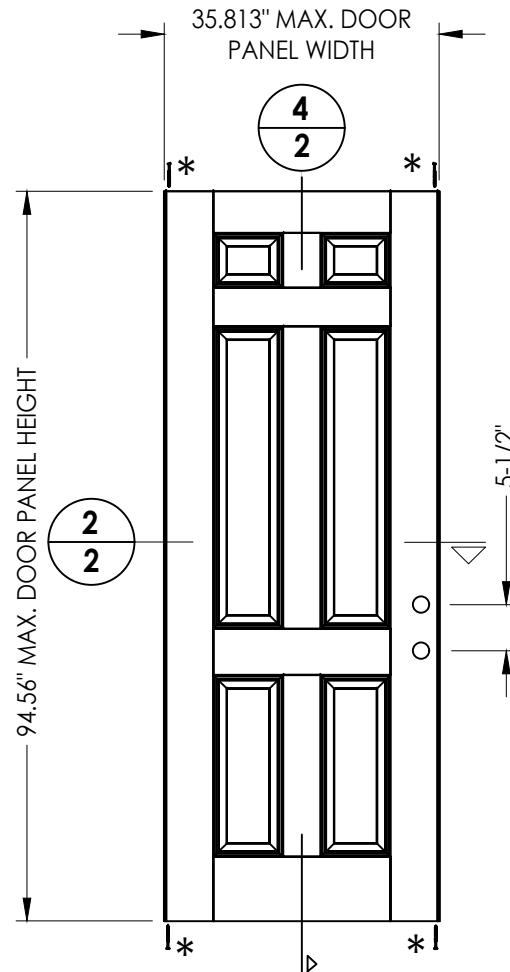
2 2 HORIZONTAL CROSS SECTION



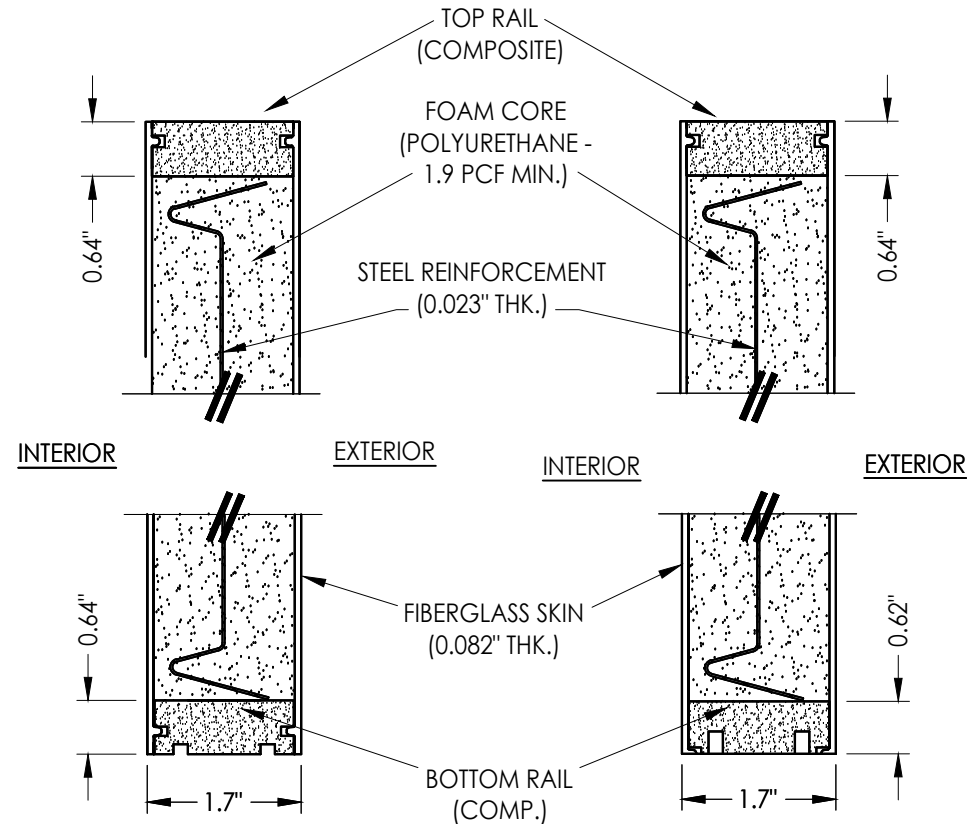
40 DOOR PANEL BOOK



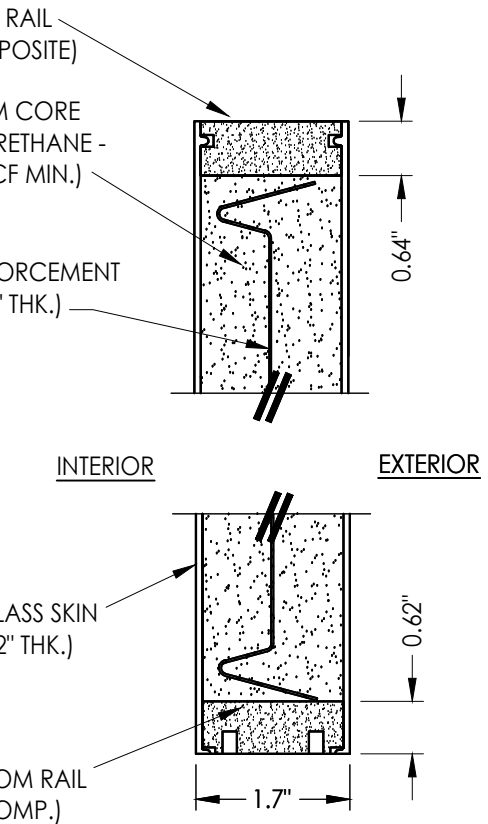
41 DOOR PANEL Hybrid Door



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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE: 08/12/19

SCALE: N.T.S.

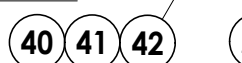
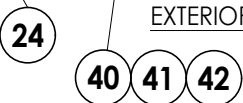
DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-30077.4

SHEET 2 OF 11

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FBPE Registry No. 9813

 $\frac{1}{4}$ 
$$\frac{3}{4}$$

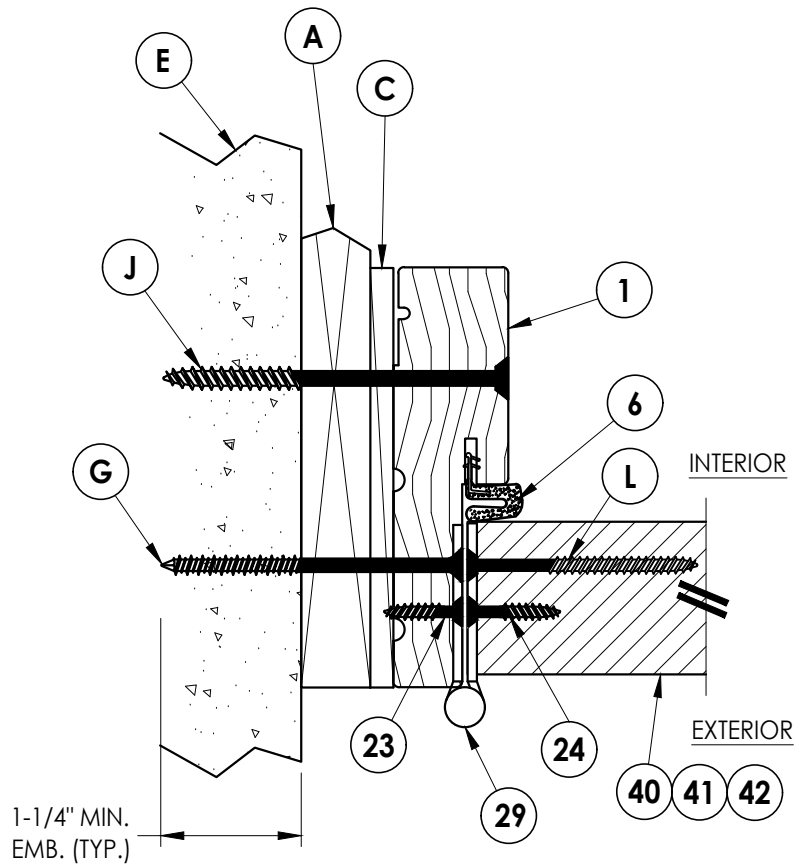
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

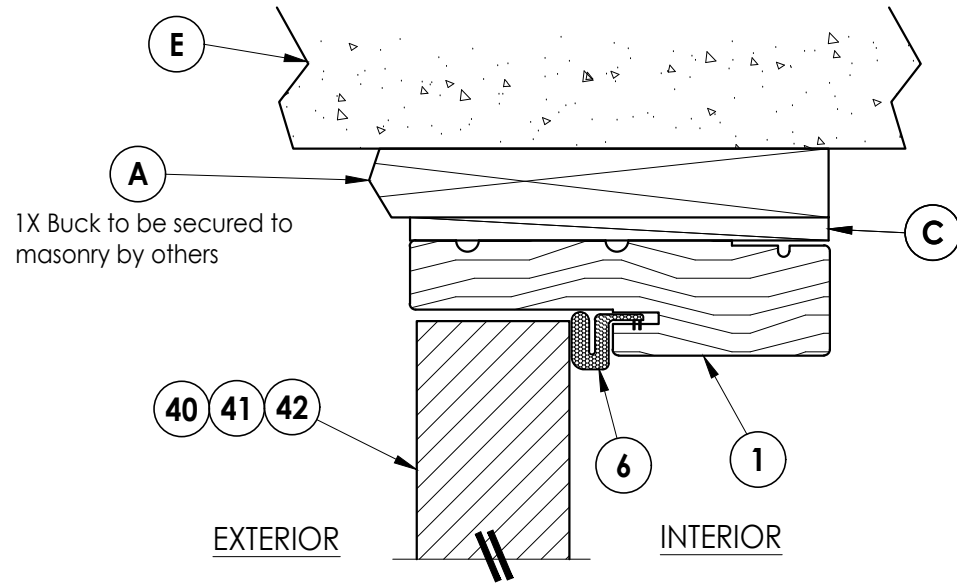
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Phone No.: 813.659.9197
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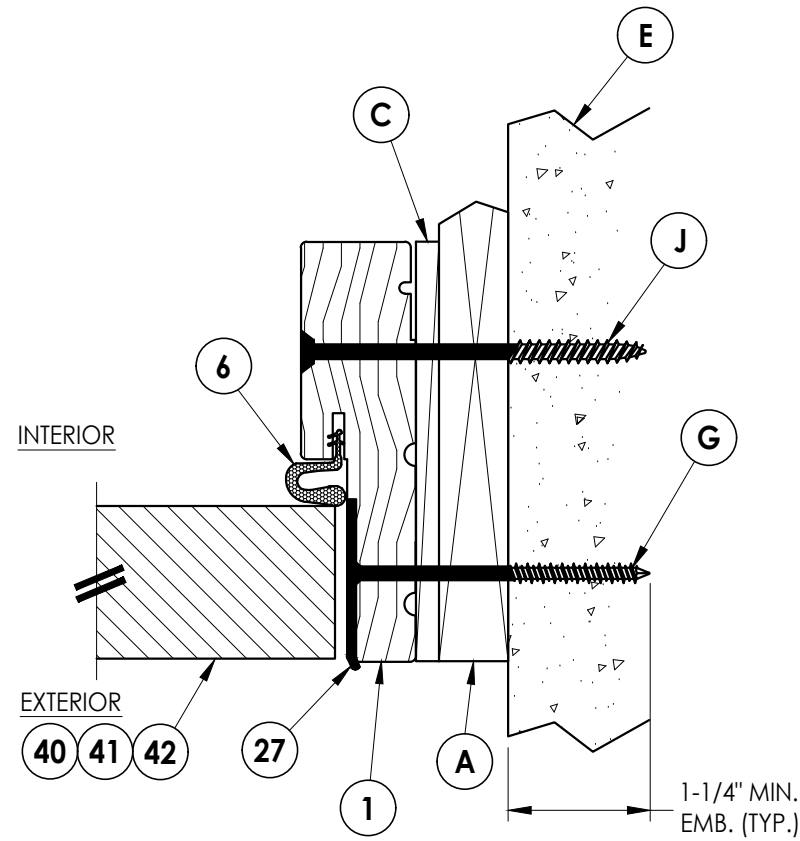
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2 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-buck



1 VERTICAL CROSS SECTION
5 Shown w/ 1X sub-buck



3 HORIZONTAL CROSS SECTION
5 Shown w/ 1X sub-buck

Documents Prepared By:
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P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC LFS
1	7/15/20	UPDATE TO 7th ED (2020) FBC PO

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

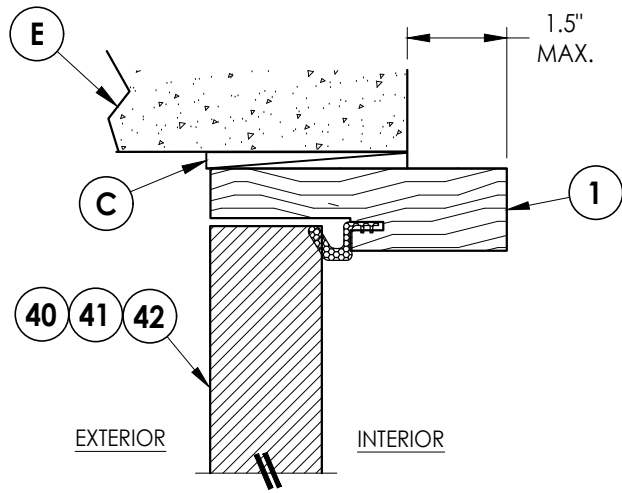
CHK. BY: LFS

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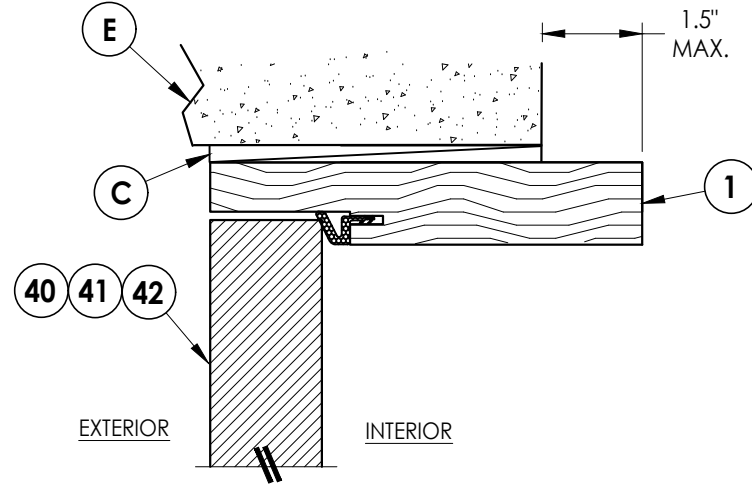
FL-30077.4

SHEET 5 OF 11

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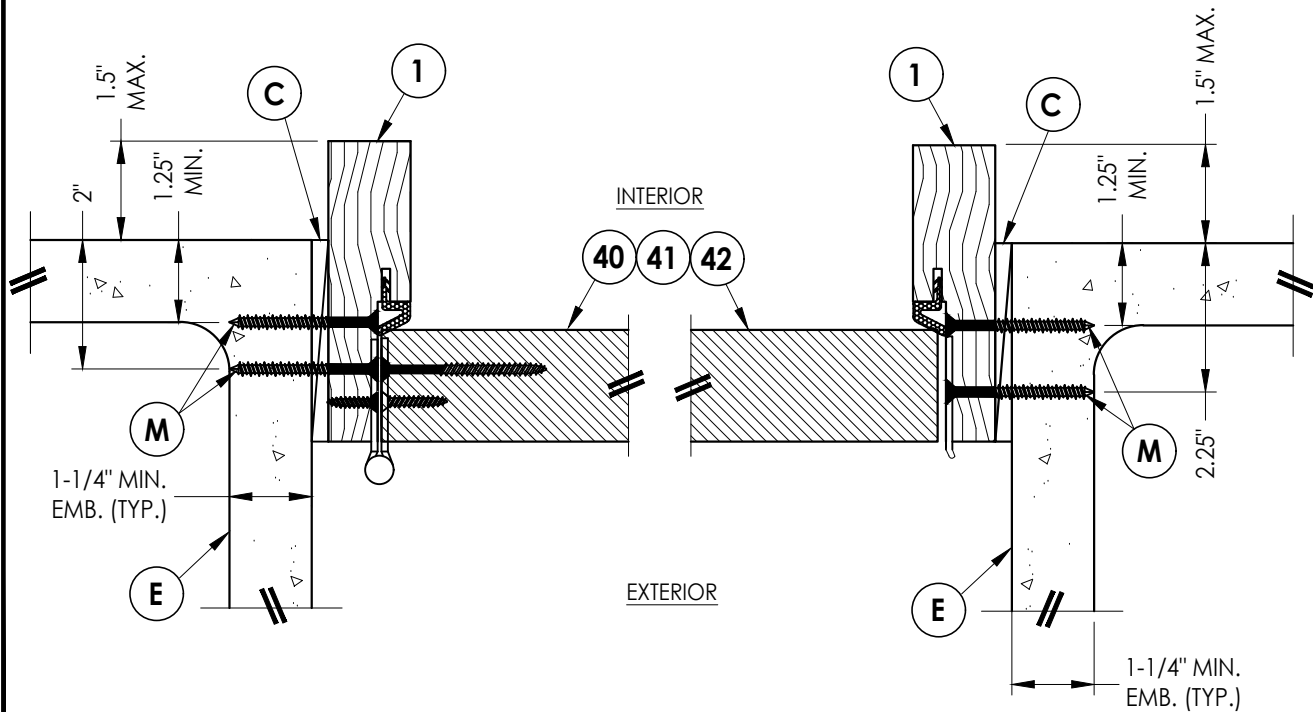


1
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
w/ 4-9/16" jamb

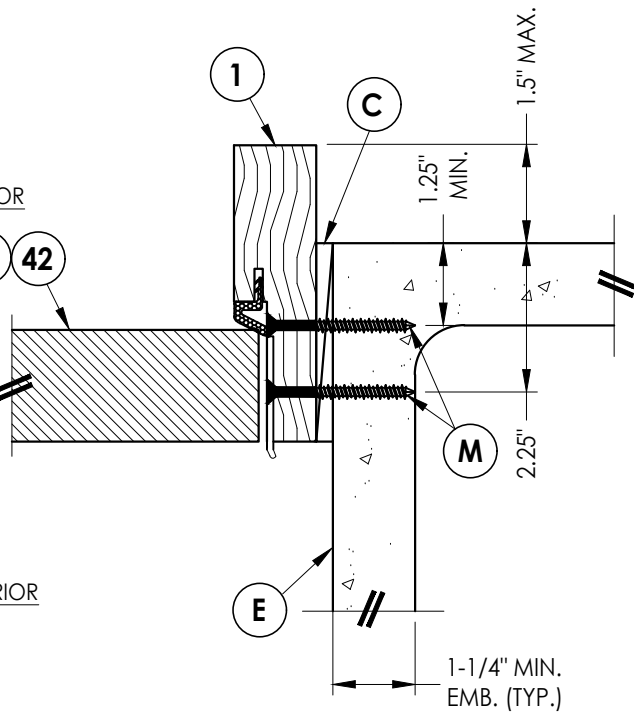


4
6 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
w/ 6-9/16" jamb

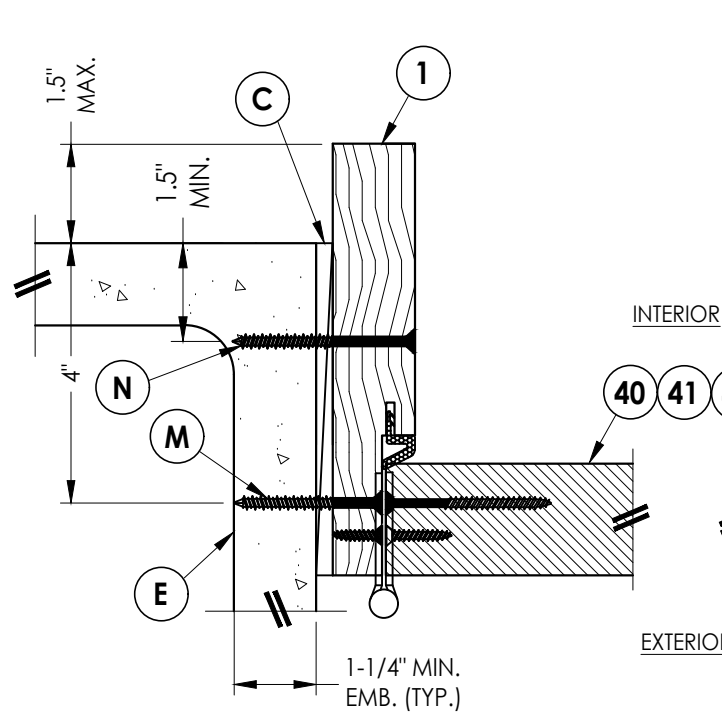
DIRECT TO MASONRY MAX. DESIGN PRESSURE:
w/ STANDARD STRIKE = ± 47 PSF
w/ SECURITY STRIKE = ± 55 PSF



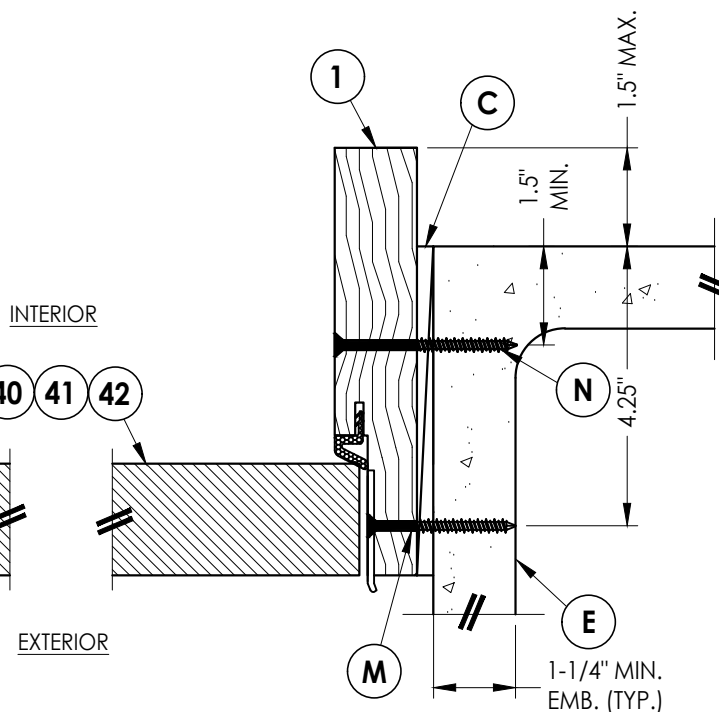
2
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
w/ 4-9/16" jamb



3
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
w/ 4-9/16" jamb



5
6 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
w/ 6-9/16" jamb



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

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

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PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
SECTIONS (DIRECT TO MASONRY)

NO.	DATE	REVISIONS	BY
2	8/17/23	UPDATE TO 8TH ED. (2023) FBC	LFS
1	7/15/20	UPDATE TO 7TH ED (2020) FBC	PO

DATE: 08/12/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-30077.4
SHEET 6 OF 11

1. Sill Item #s 17, 18, & 19 are attached to jambs w/ (3) #8 X 2-1/2" pfh screws at each end.
Sill Item # 16 is 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.



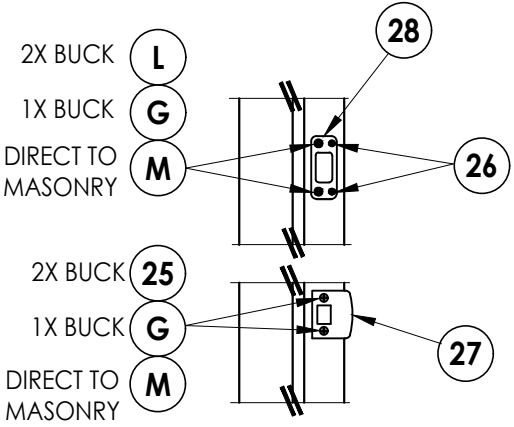
2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS						
1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO						
NO.	DATE			BY						
									REVISIONS	
DATE: 08/12/19										
SCALE: N.T.S.										
DWG. BY: RW										
CHK. BY: LFS										
DRAWING NO.: FL-30077.4										
SHEET 7 OF 11										

Documents Prepared By:
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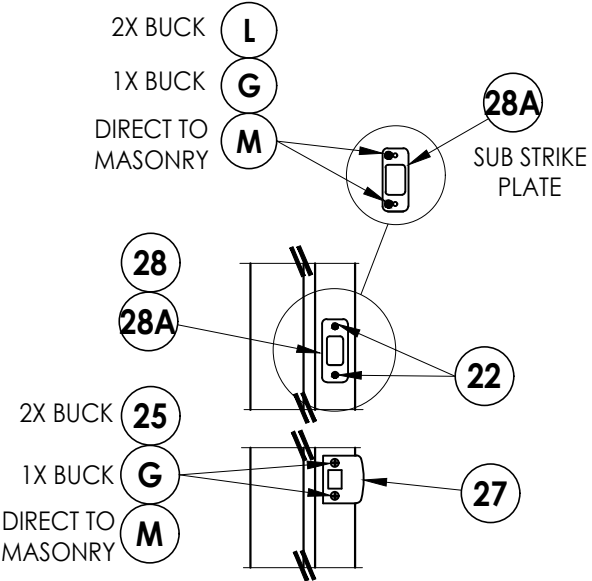
PRODUCT: THERMA-TRU FIBERGLASS DOOR	PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)
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LATCH & DEADBOLT DETAIL

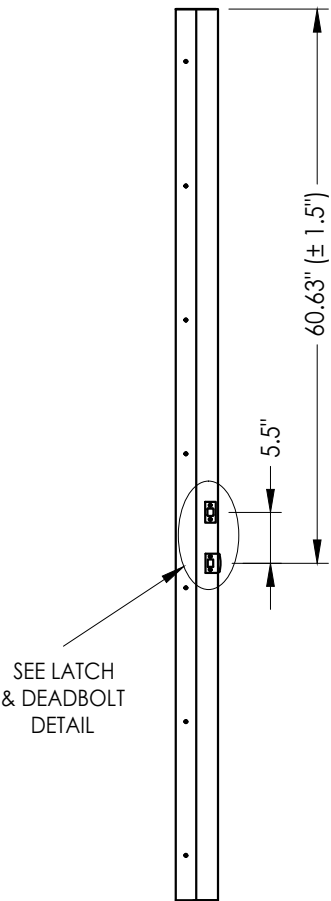
Kwikset



LATCH & DEADBOLT DETAIL

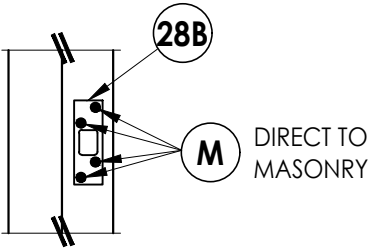
Schlage

LATCH & DEADBOLT STRIKE DETAILS



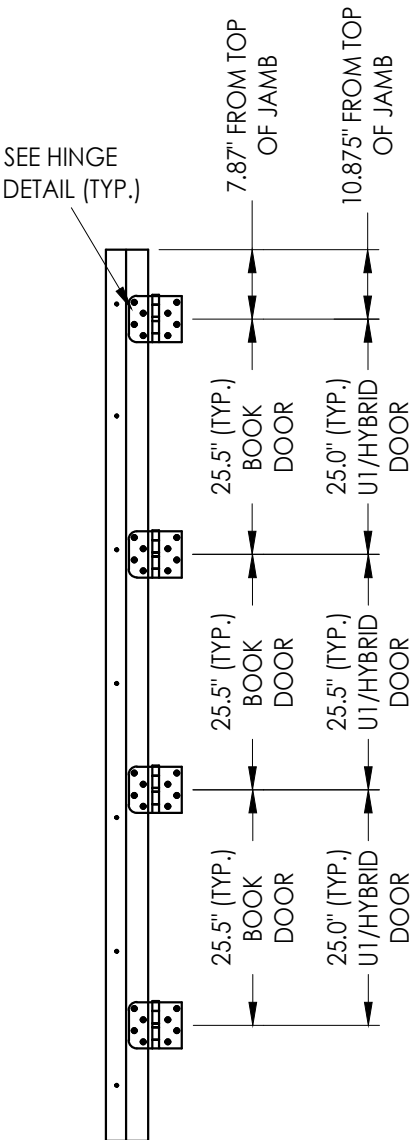
STRIKE JAMB

Latch & Deadbolt

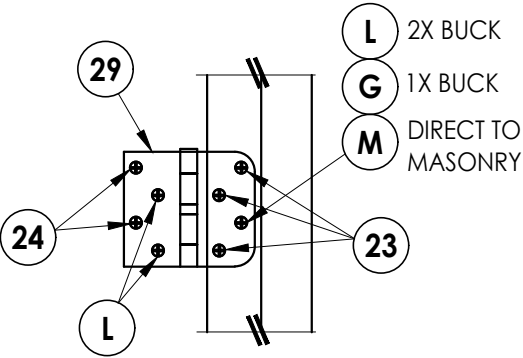


DEADBOLT STRIKE DETAILS

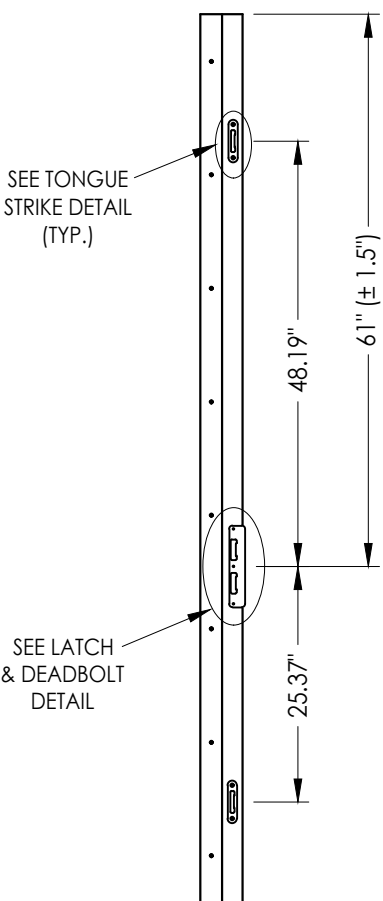
(Security Deadbolt Strike Plate)



HINGE JAMB

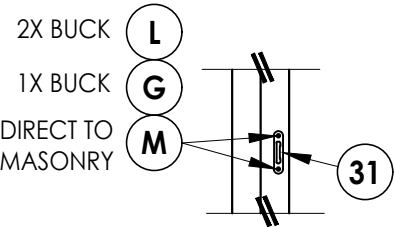


HINGE DETAIL



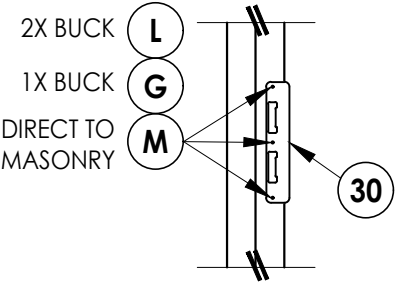
STRIKE JAMB

Multipoint Lock



TONGUE STRIKE DETAIL

Multipoint Lock

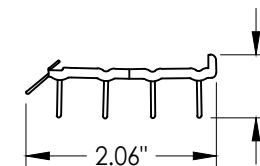
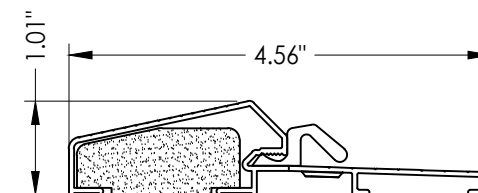
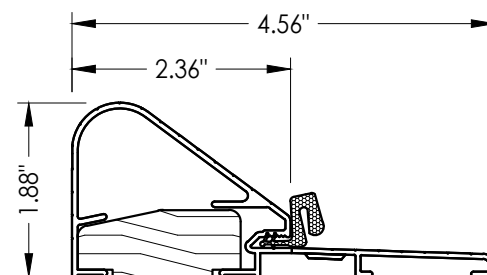
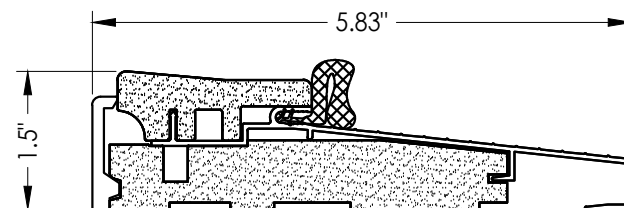
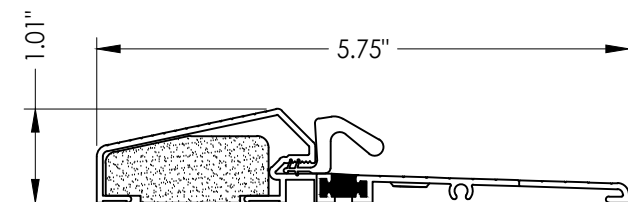
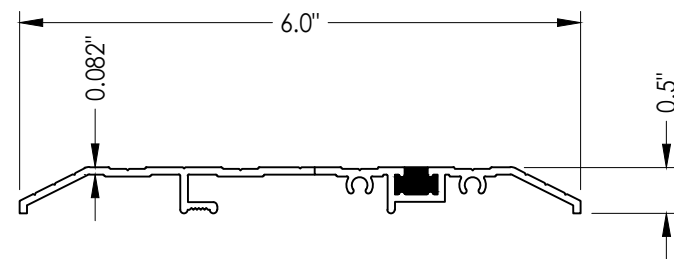
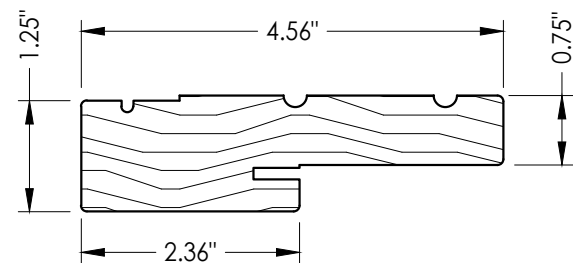


LATCH & DEADBOLT DETAIL

Multipoint Lock

MULTIPOINT LOCK STRIKE 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				
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: HARDWARE DETAILS				
				2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
				1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO
				NO.	DATE			BY
				REVISIONS				
DATE: 08/12/19								
SCALE: N.T.S.								
DWG. BY: RW								
CHK. BY: LFS								
DRAWING NO.: FL-30077.4								
SHEET 9 OF 11								

[illegible]

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 (STANDARD)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A	DEADBOLT SUB STRIKE PLATE	STEEL
			28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	29	4" X 4" HINGE	STEEL
J	1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	STEEL
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	40	DOOR PANEL (BOOK)	-
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	41	DOOR PANEL (HYBRID)	-
1	JAMB (FINGER JOINT PINE)	WOOD	42	DOOR PANEL (U1)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM			
7	WEATHERSTRIP (LONG REACH)	FOAM			
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	COASTAL OUTSWING THRESHOLD	ALUM/WOOD			
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			

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.

DATE: 08/12/19		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		THERMA-TRU		Lyndon F. Schmidt	
DWG. BY: RW		FIBERGLASS 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-30077.4		BILL OF MATERIALS			
SHEET 11 OF 11		LFS			
		2 8/17/23 UPDATE TO 8TH ED. (2023) FBC			
		1 7/15/20 UPDATE TO 7th ED (2020) FBC			
		NO. DATE		BY	
				REVISIONS	