

G:\2023 FBC DRAWINGS\Therma-Tru\FL-30077 R2\FL-30077.13-15.dwg

Therma-Tru® DOORS

Fiber-Classic® & Smooth-Star®

CUT DOWN COMPOSITE EDGE OPAQUE FIBERGLASS DOUBLE DOOR w/ or w/out SIDELITES

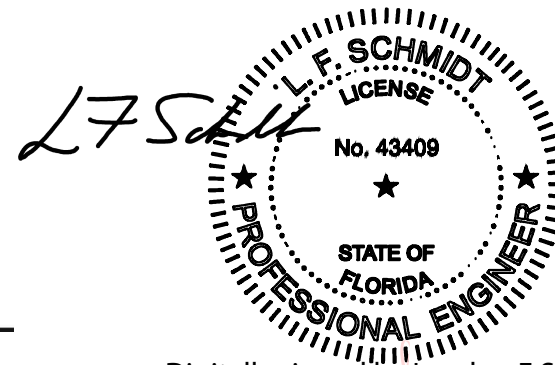
OUTSWING
"IMPACT"

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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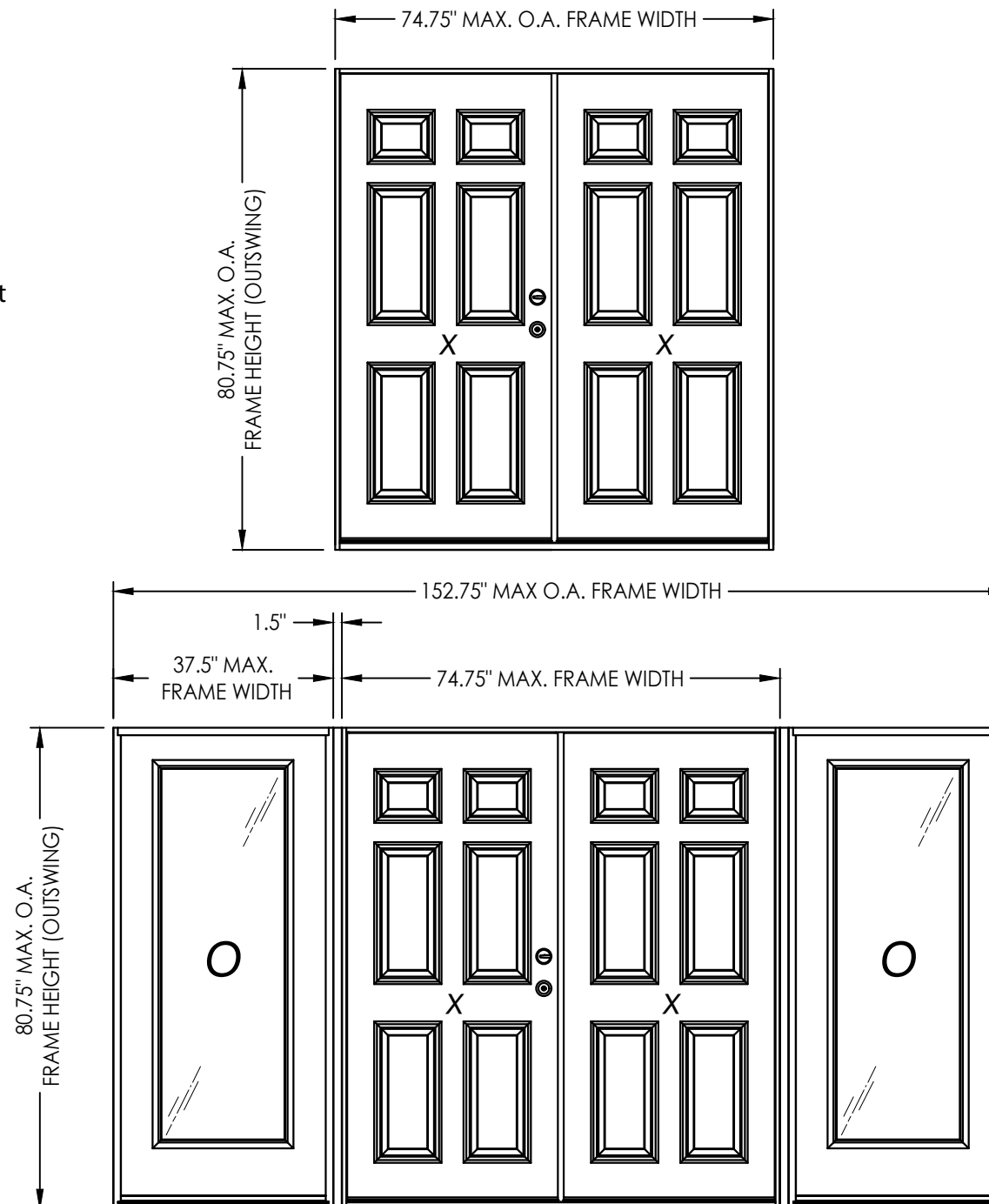
SHEET#	DESCRIPTION	SHEET#	
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2	Door Panel Details	9	Buck Anchoring
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6	Horizontal & Vertical Cross Sections (1X Buck)	13	Components
7	Horizontal & Vertical Cross Sections (Direct to Masonry)	14	Bill of Materials



Digitally signed by Lyndon F Schmidt
Date: 2023.08.18 09:21:09 -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
XX	Latch & Deadbolt	+60.0	-60.0
OXXO	Latch & Deadbolt	+55.0	-55.0
XX, OXXO	Multipoint	+55.0	-55.0

See Sheet 4 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

NO.	DATE	REVISIONS	
		PO	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.

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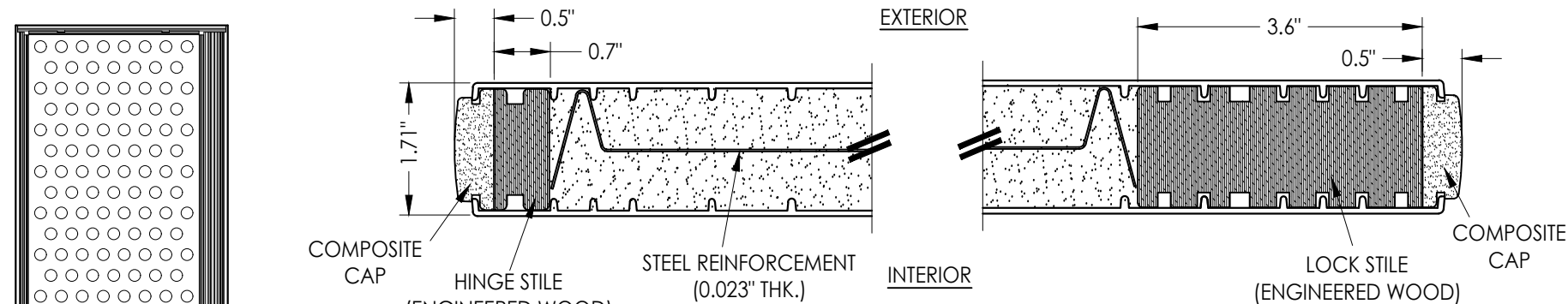
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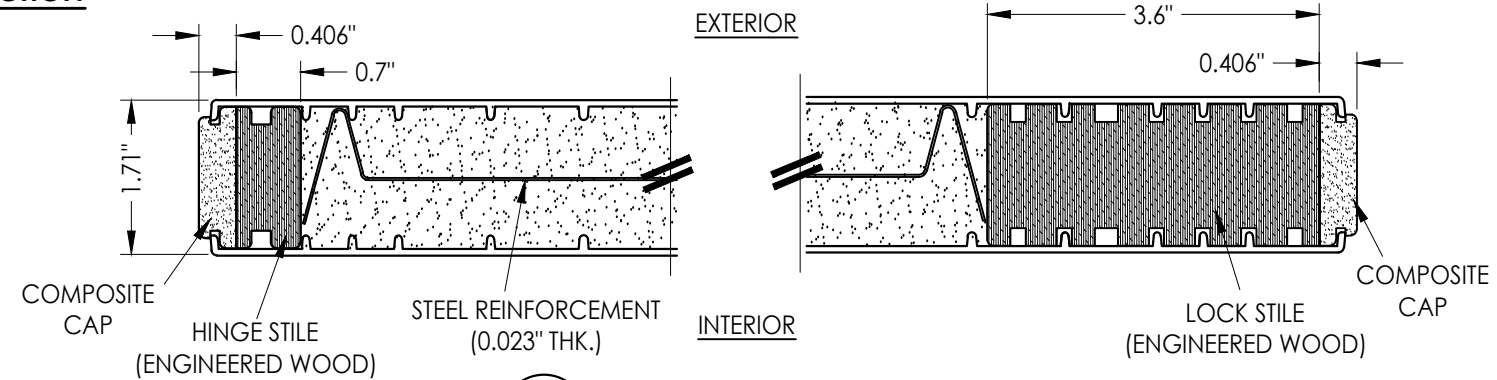
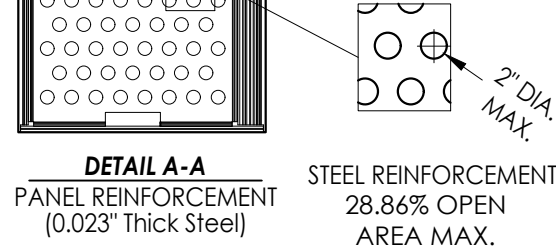
FL-30077.15

SHEET 1 OF 14

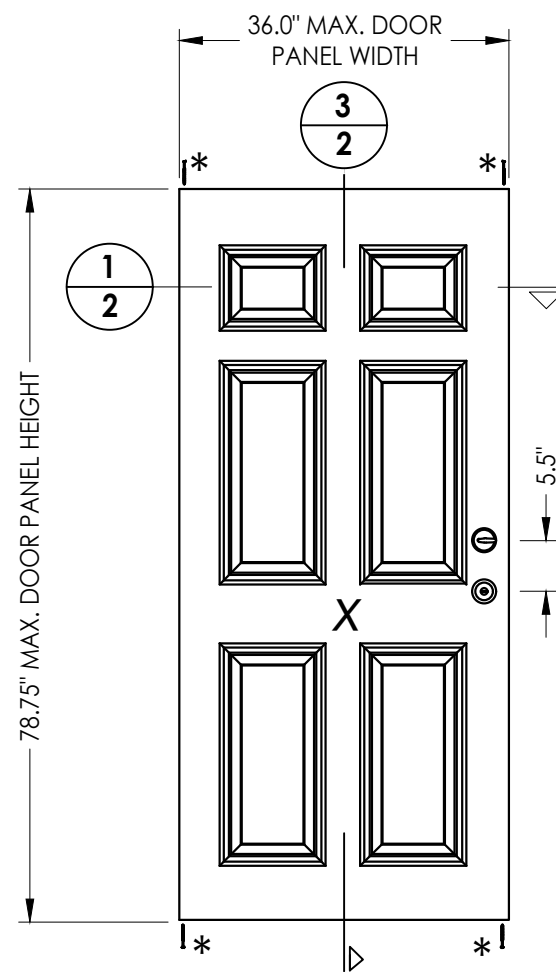
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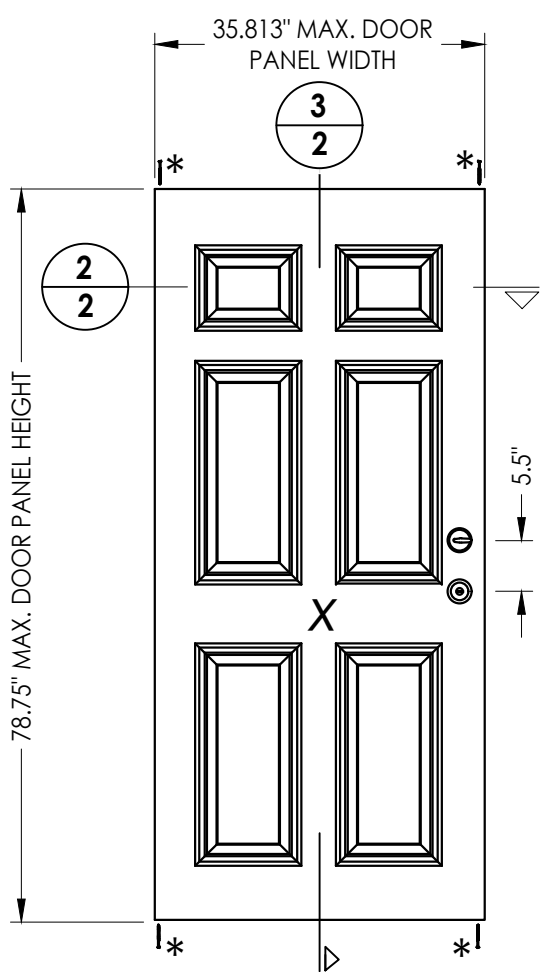
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HORIZONTAL CROSS SECTION



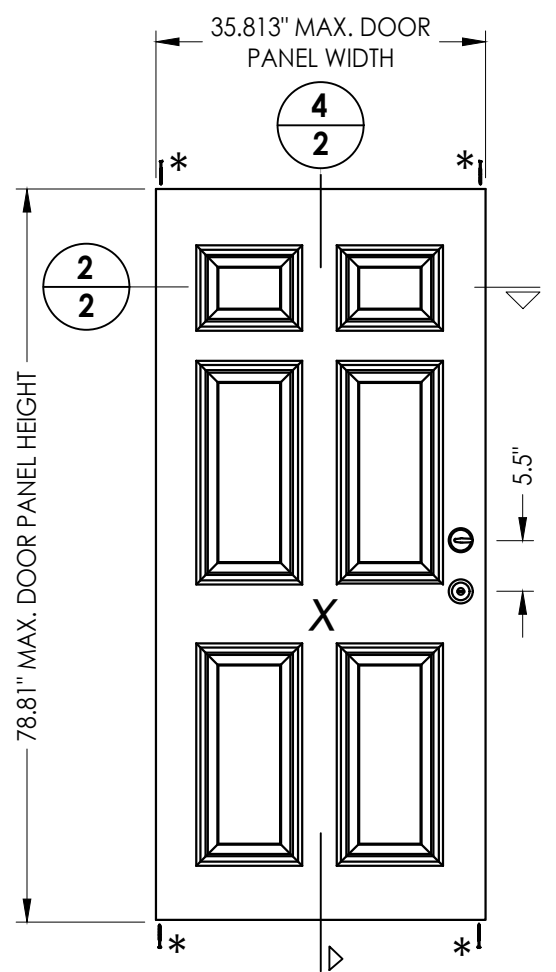
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2
HORIZONTAL CROSS SECTION



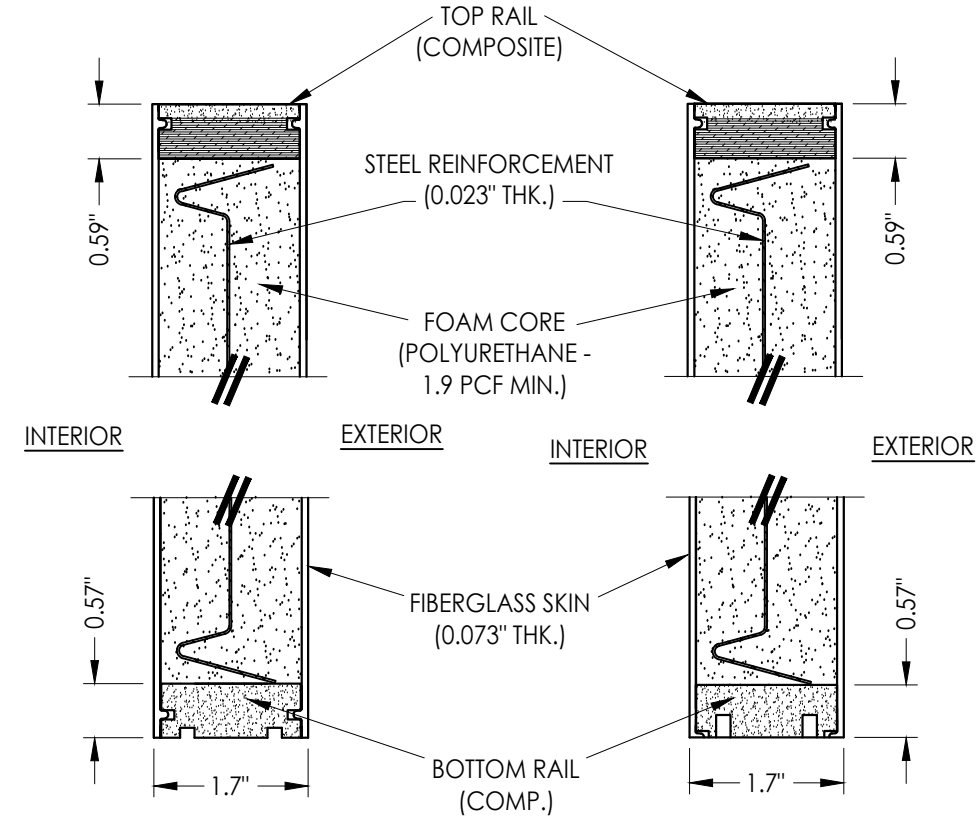
40
DOOR PANEL
BOOK



41
DOOR PANEL
Hybrid Door



42
DOOR PANEL
U1 Door



3
2
VERTICAL CROSS SECTION

4
2
VERTICAL CROSS SECTION

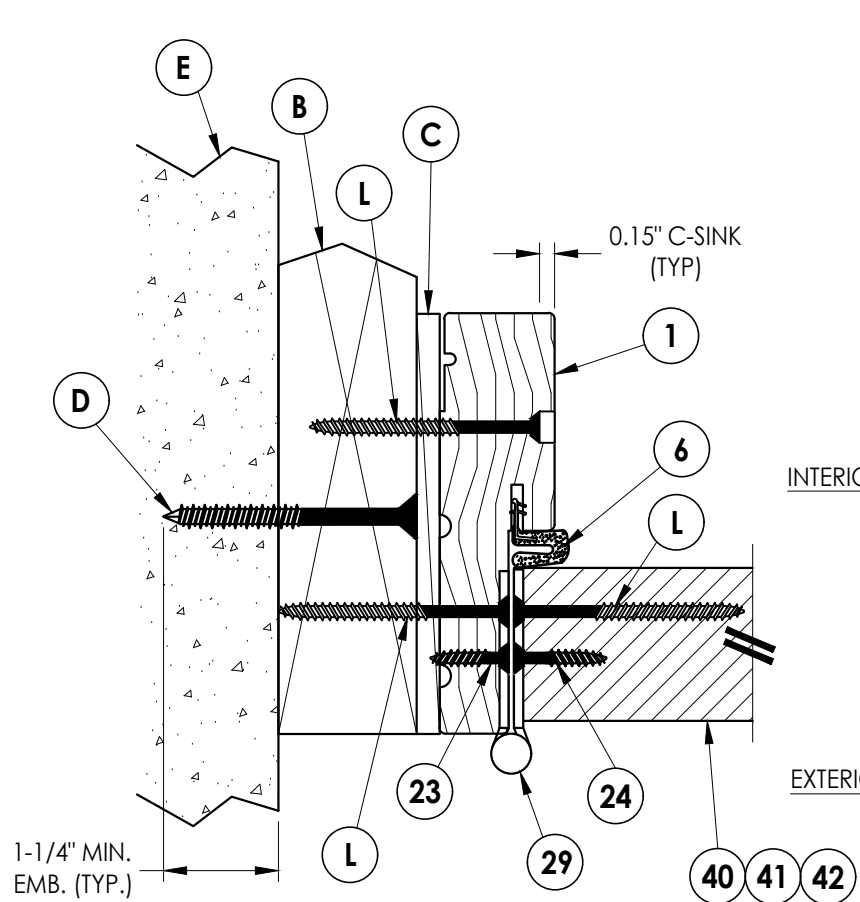
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: DOOR PANEL DETAILS			
2	8/17/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
1	7/15/20	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-30077.15							
SHEET 2 OF 14							



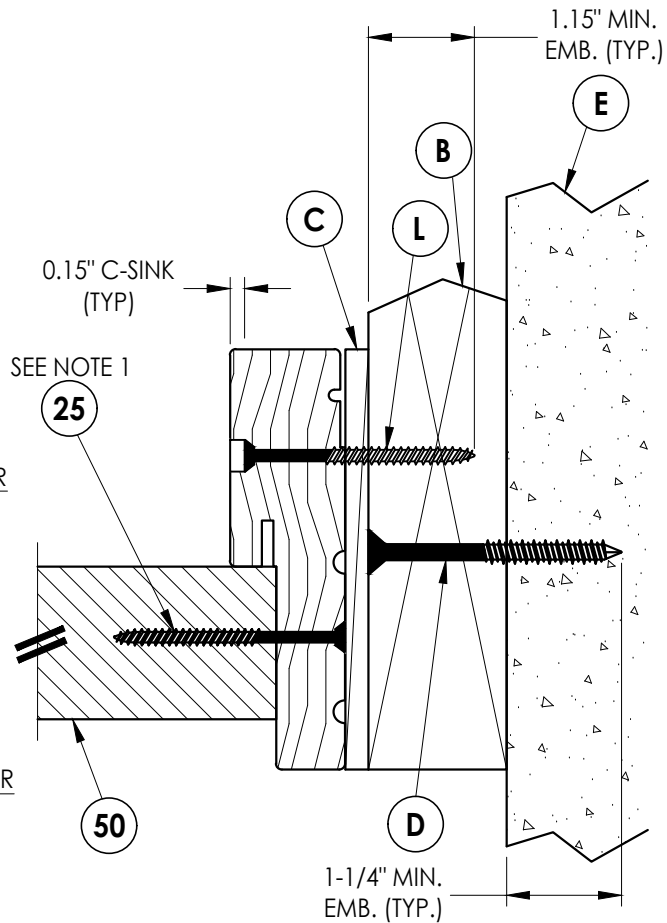
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SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
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SHEET	4 OF 14

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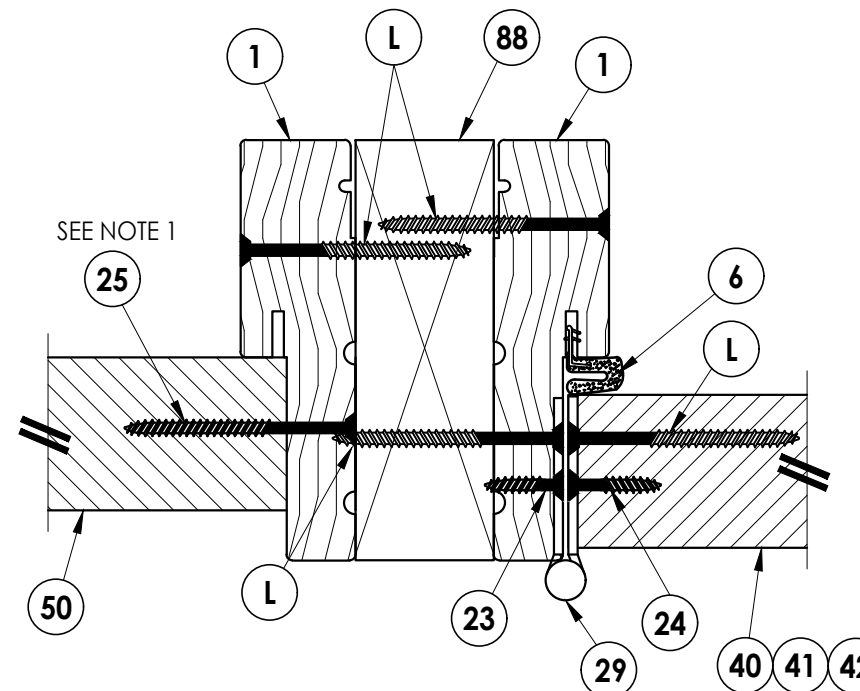
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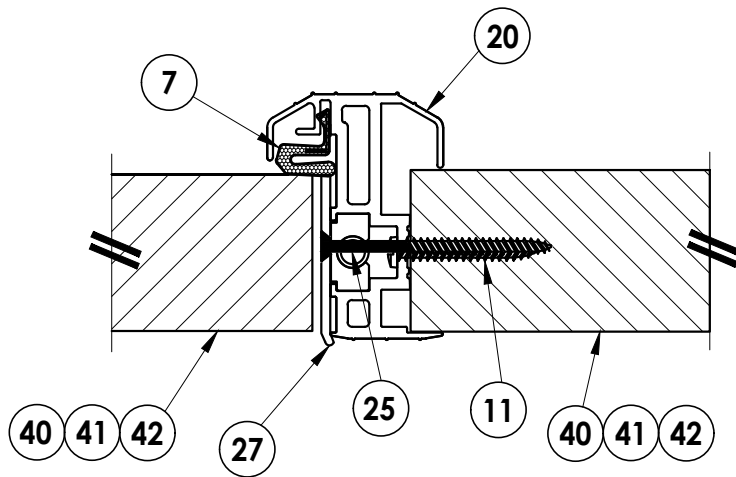
1
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck



2
5 **HORIZONTAL CROSS SECTION**
Shown w/ 2X Buck



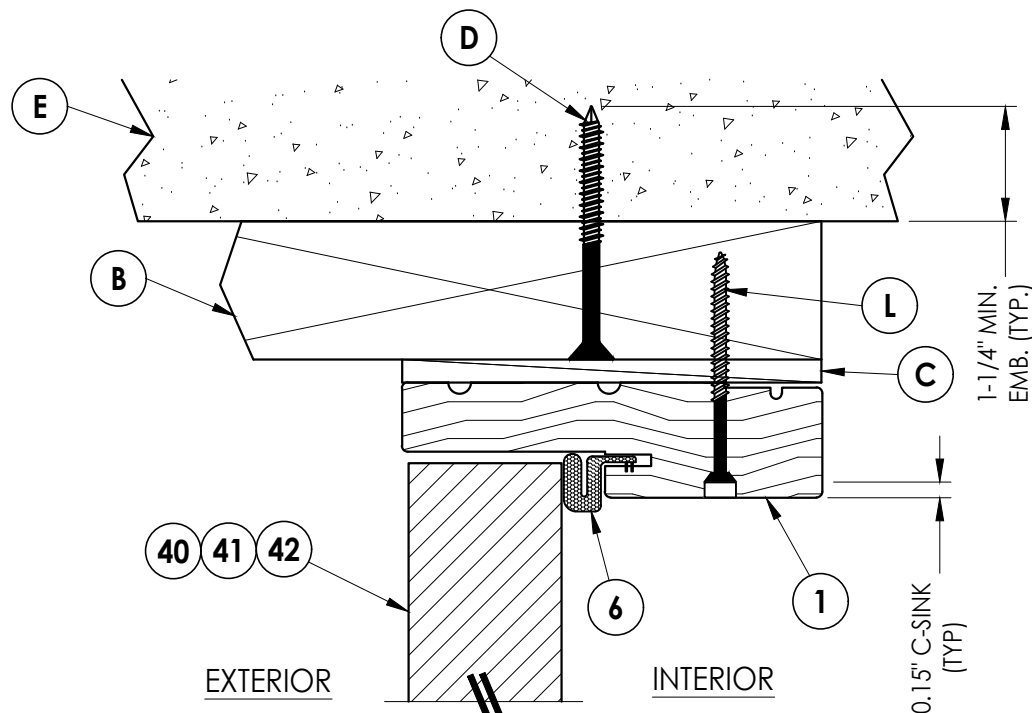
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5 **HORIZONTAL CROSS SECTION**



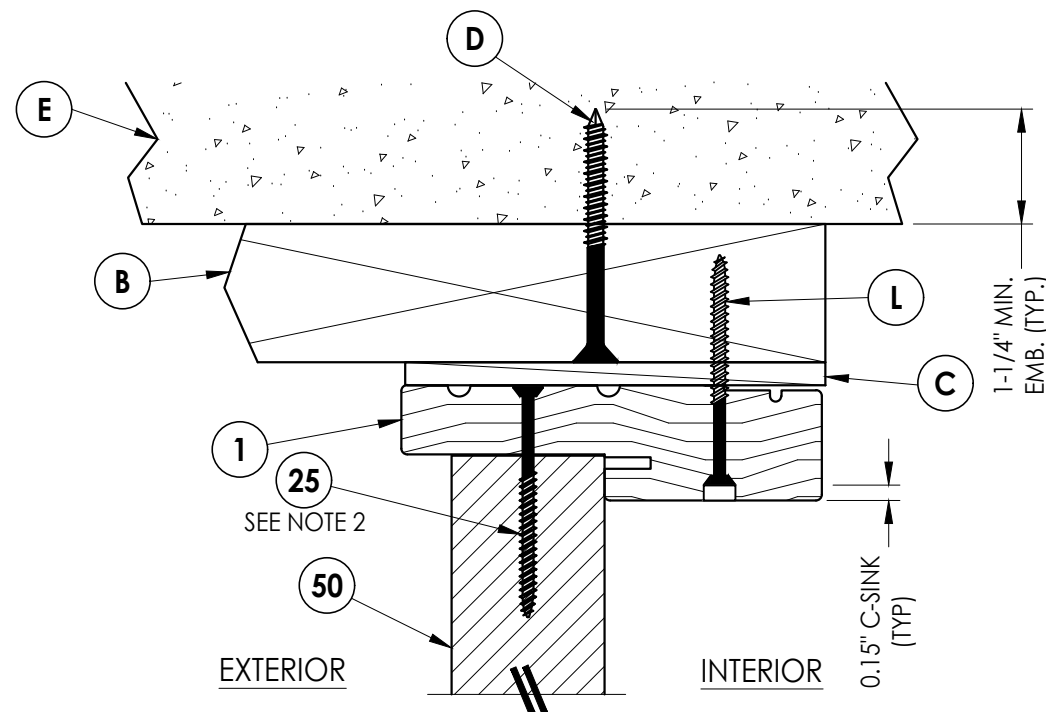
6
5 **HORIZONTAL CROSS SECTION**

Notes:

1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



3
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck



4
5 **VERTICAL CROSS SECTION**
Shown w/ 2X Buck

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

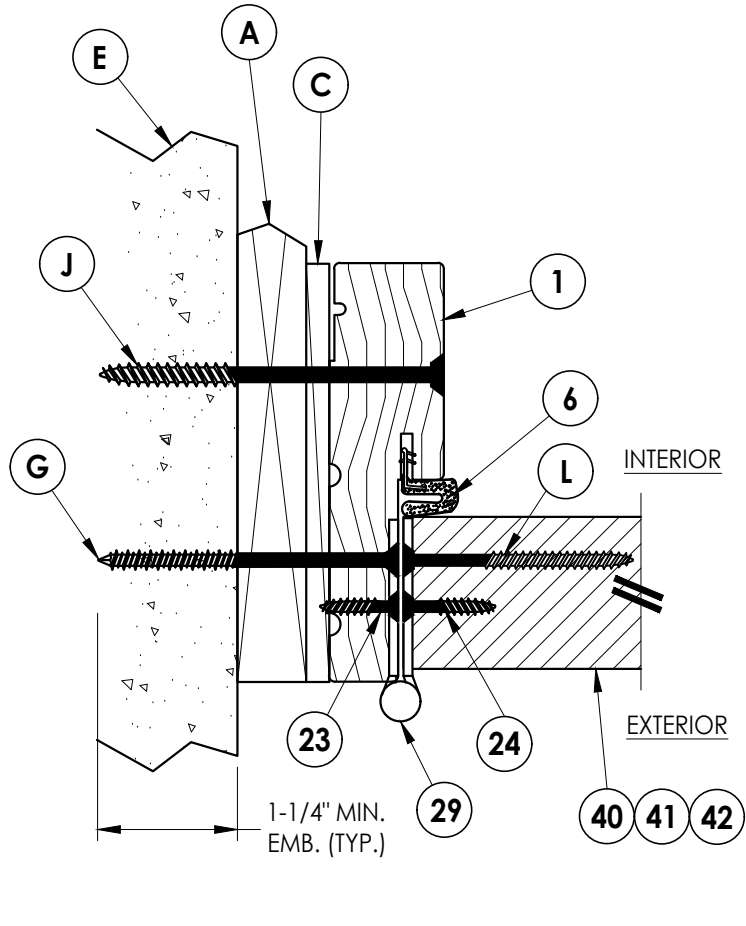
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CHK. BY: LFS

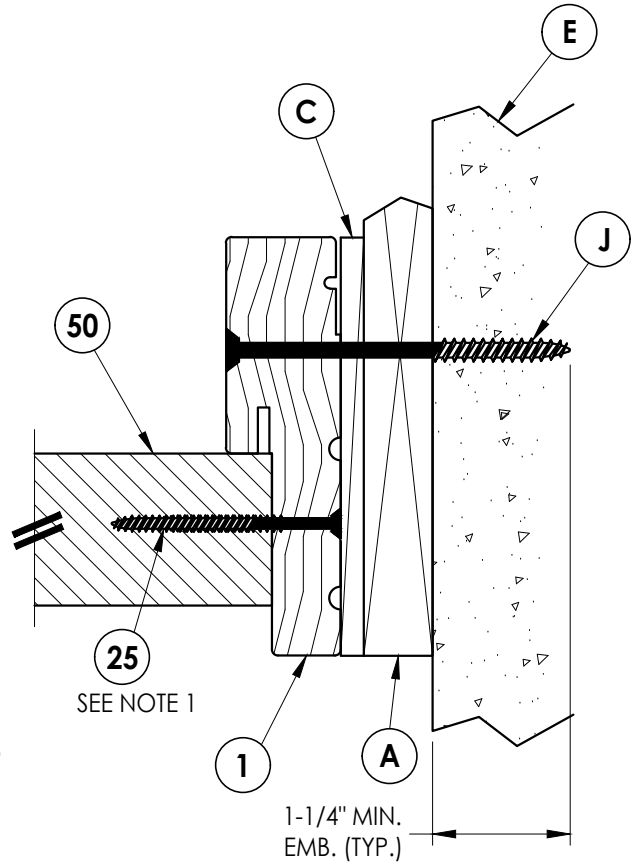
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SHEET 5 OF 14

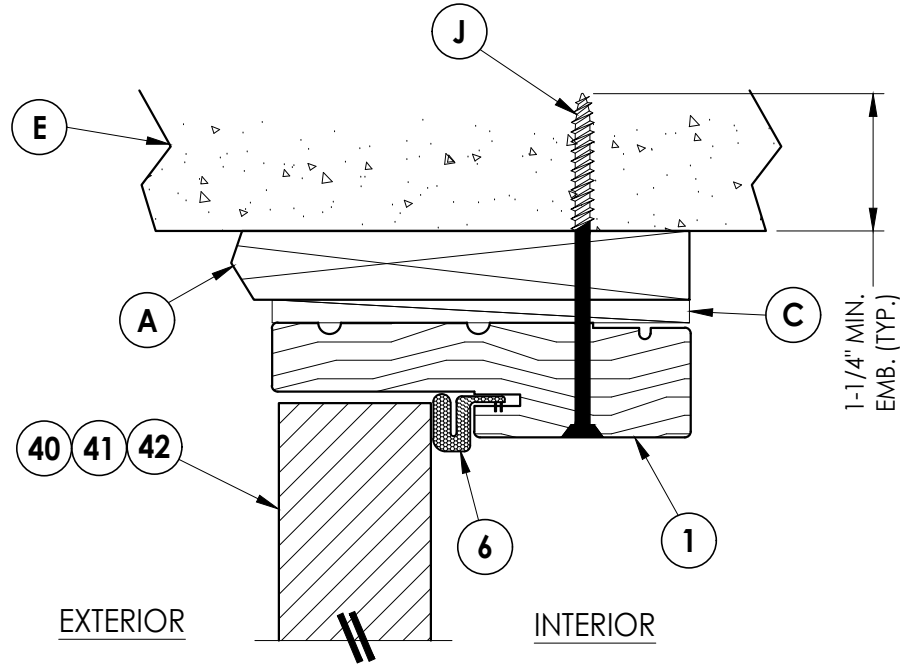
- Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



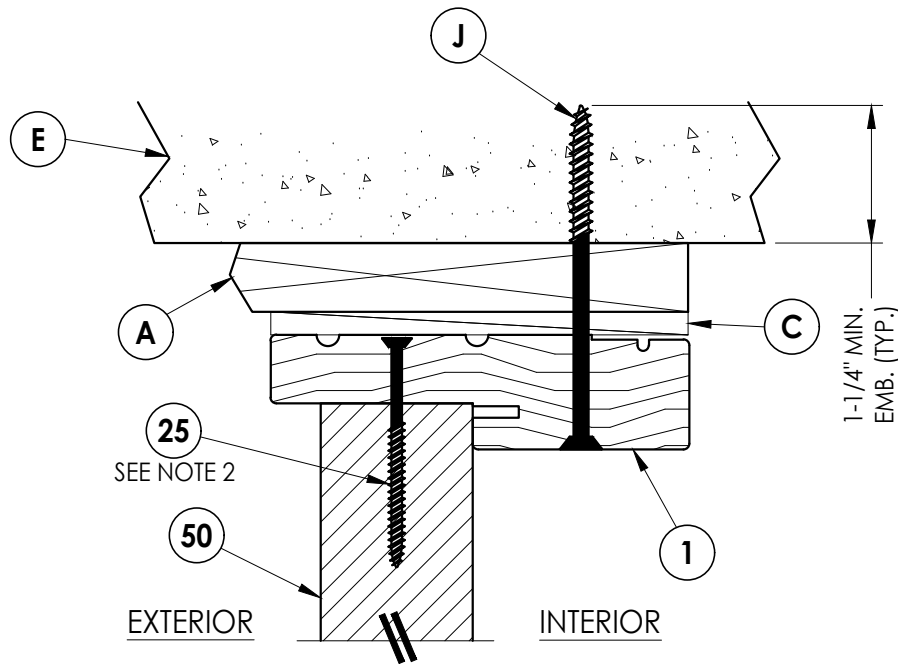
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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)

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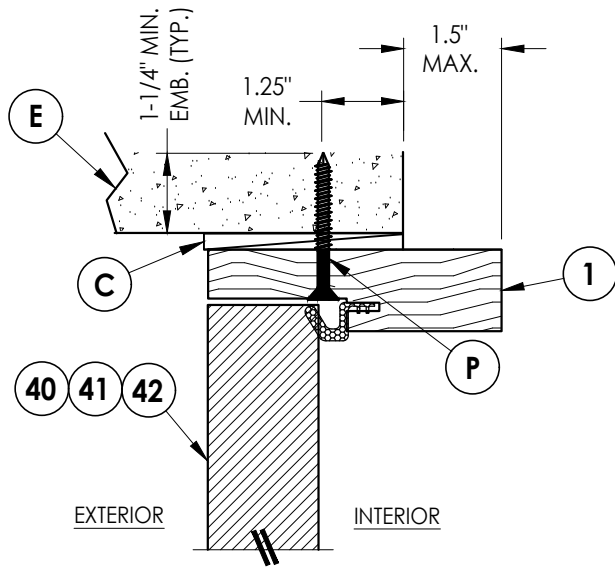
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

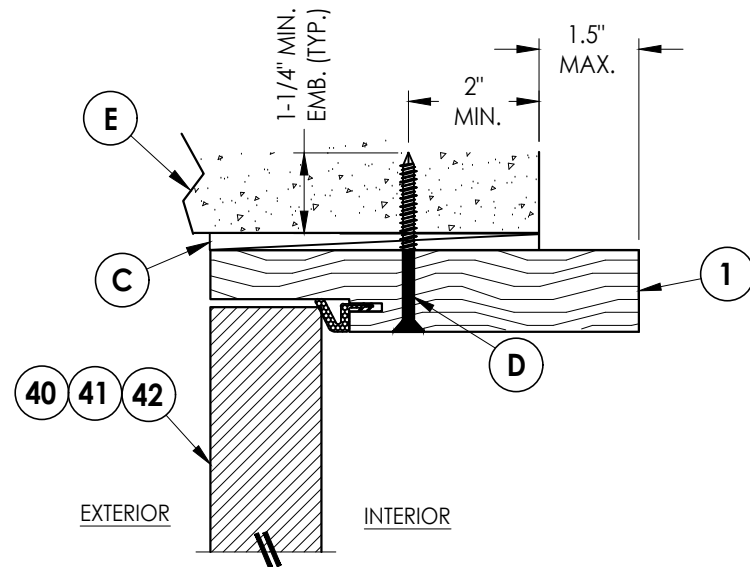
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (1X BUCK)

NO.	DATE	REVISIONS		
		DATE	BY	PO
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1	7/15/20	UPDATE TO 7th ED (2020)	FBC	PO

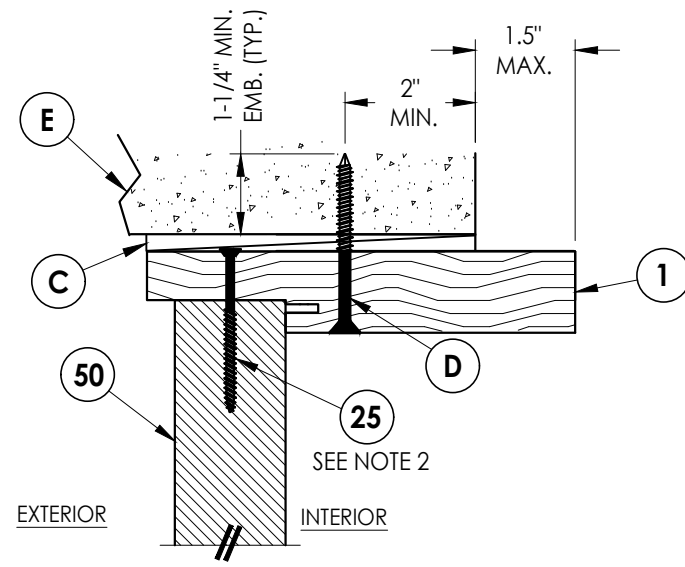
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DWG. BY: RW
CHK. BY: LFS
DRAWING NO.: FL-30077.15
SHEET 6 OF 14



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



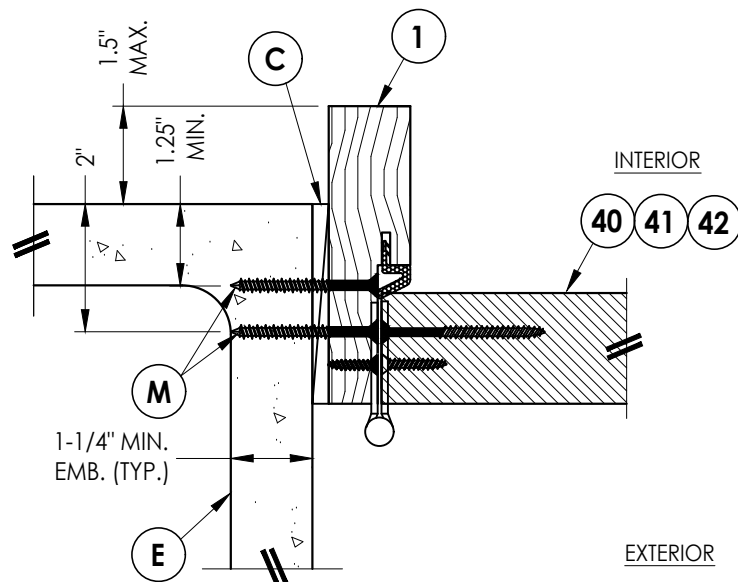
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7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
6-9/16" jamb



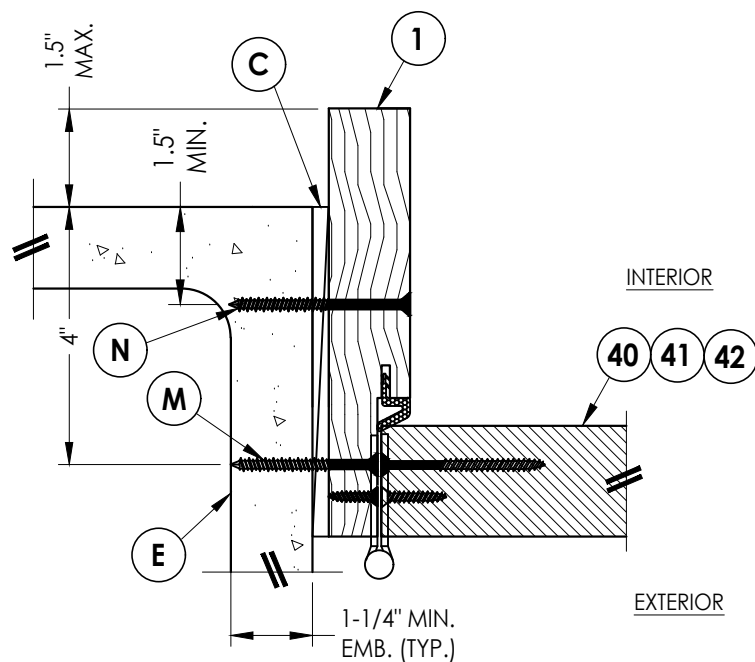
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7 **VERTICAL CROSS SECTION**
Shown Direct to Masonry
6-9/16" jamb

Notes:

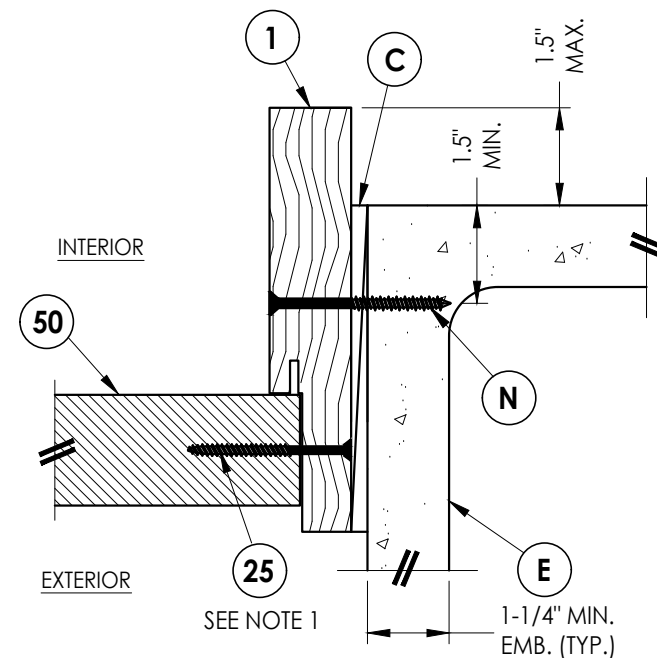
1. Sidelite assembly screws located 6" from each end plus 5 more equally spaced between (7 screws total per side jamb).
2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



1
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
6-9/16" jamb
Double Door Only (N/A w/ Sidelites)



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



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

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Lyndon F. Schmidt
P.E. No. 43409

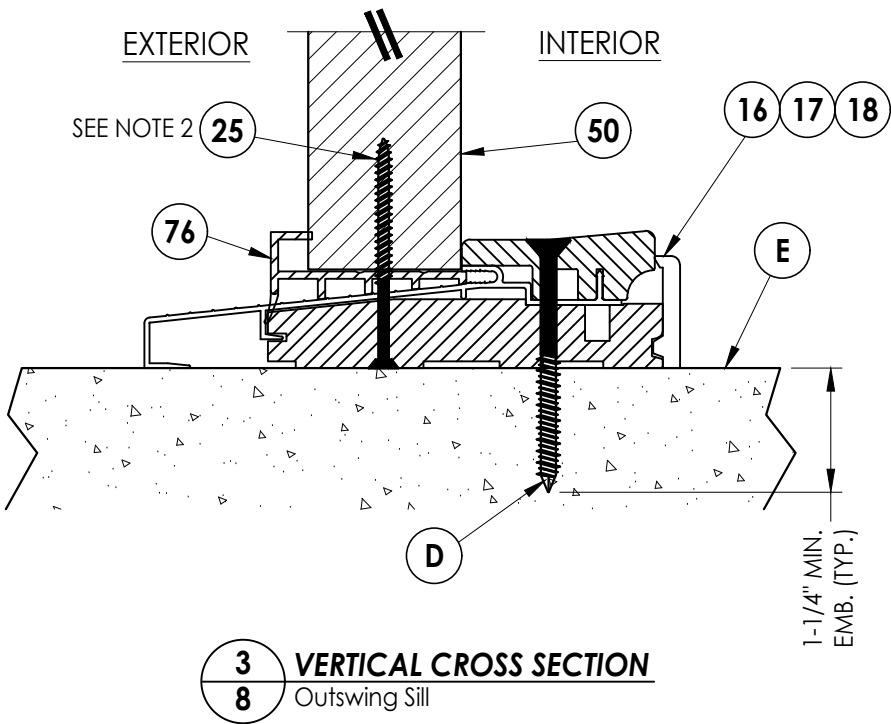
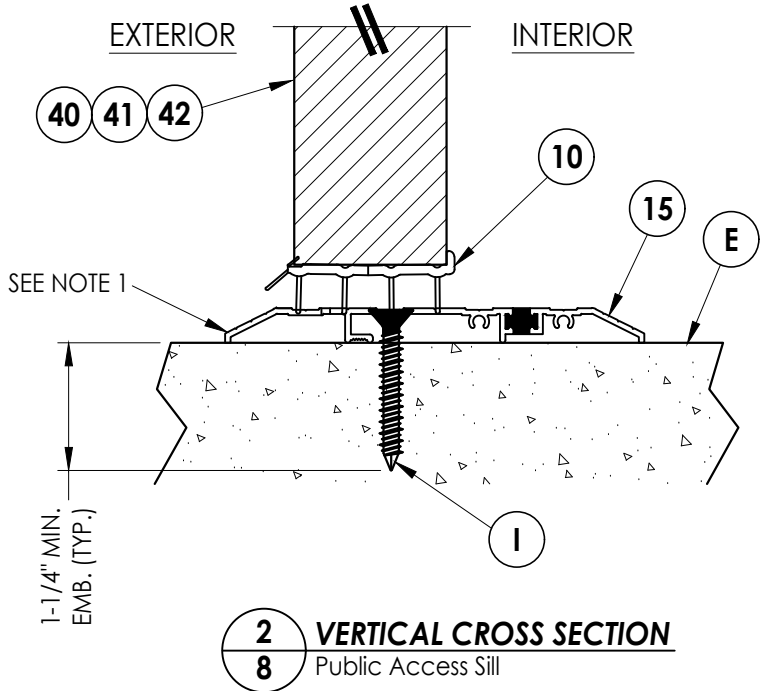
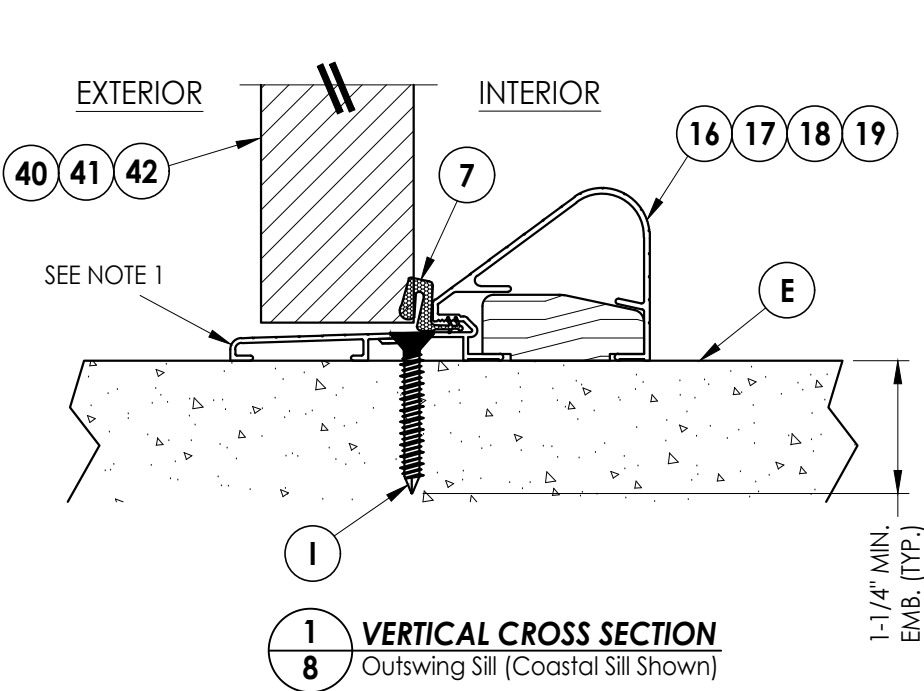
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

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

DATE: 08/12/19
SCALE: N.T.S.
DWG. BY: RW
CHK. BY: LFS
DRAWING NO.:
FL-30077.15
SHEET 7 OF 14

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



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
FIBERGLASS DOOR

PART OR ASSEMBLY:
VERTICAL CROSS
SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS		
		BY	PO	LFS
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.

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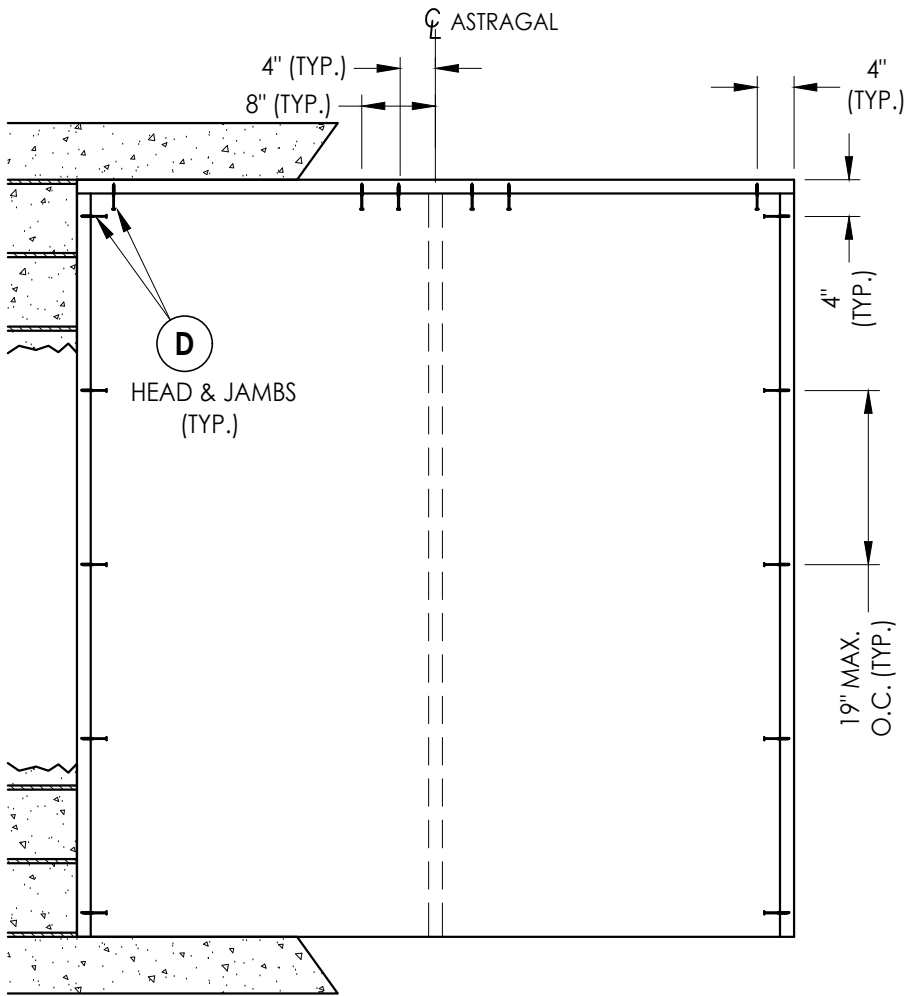
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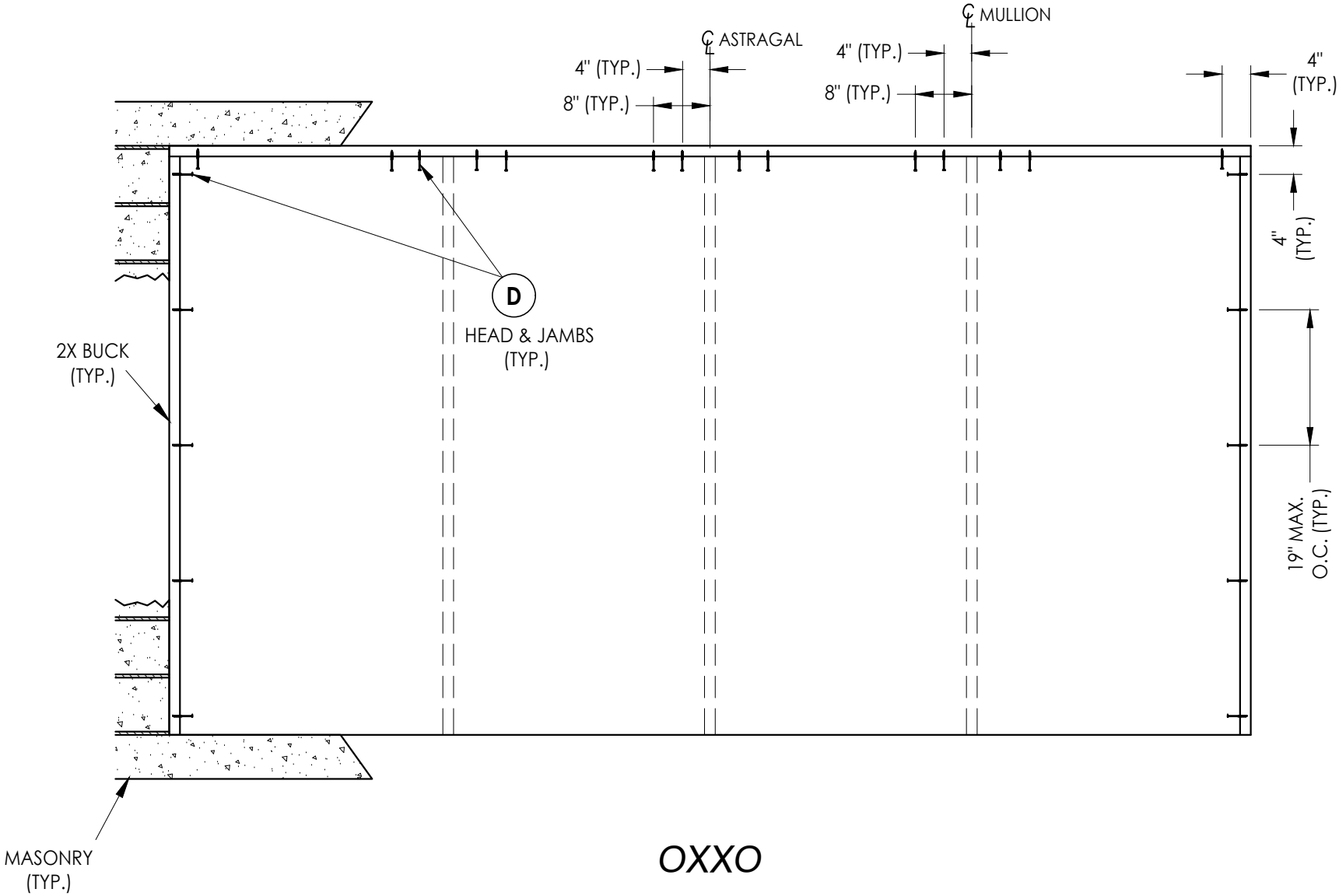
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SHEET 8 OF 14

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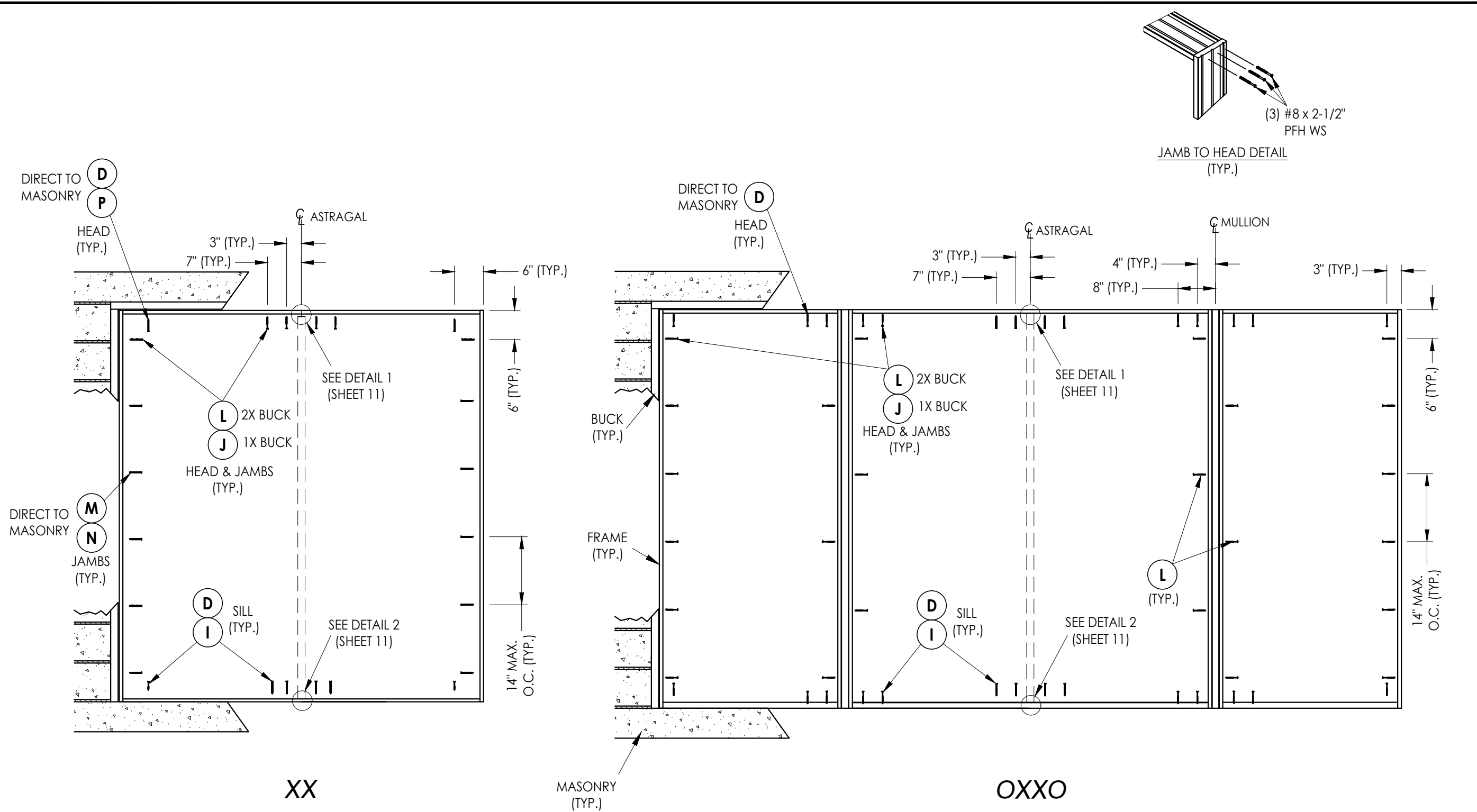
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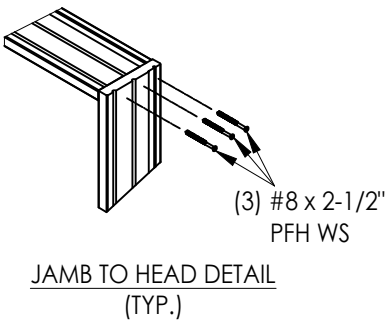
OXXO

2X BUCK ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: BUCK ANCHORING			
				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-30077.15							
SHEET 9 OF 14							



FRAME ANCHORING

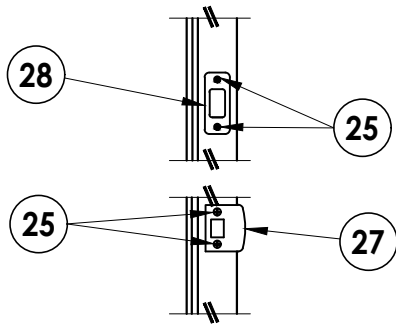


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NO.	DATE			BY	
					REVISIONS

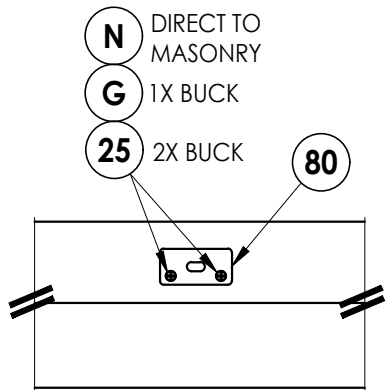
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DRAWING NO.:	FL-30077.15
SHEET	10 OF 14

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P.E. No. 43409

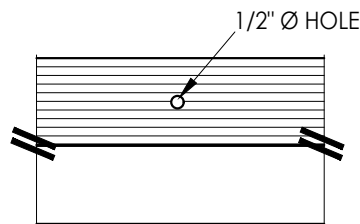
RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813



LATCH & DEADBOLT DETAIL
Schlage / Kwikset

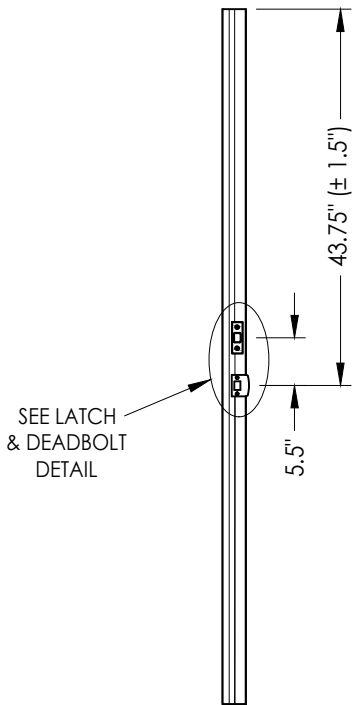


DETAIL 1
Coastal Astragal Strike Plate @ Head

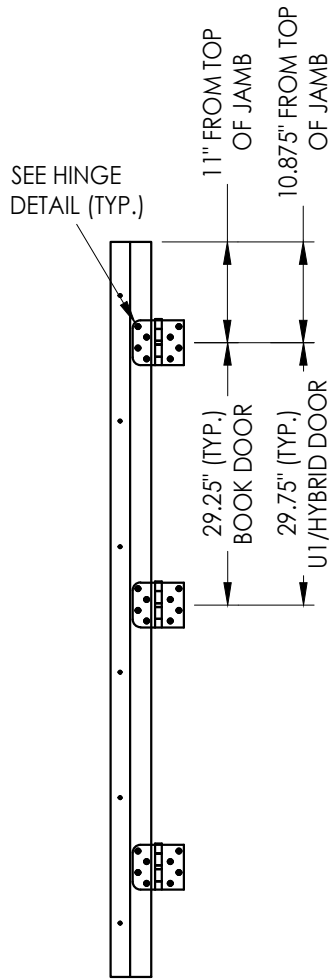


DETAIL 2
Outswing
Astragal Bolt Hole @ Sill

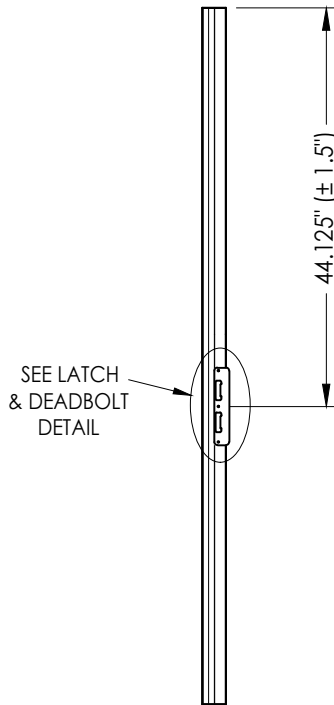
LATCH & DEADBOLT STRIKE DETAILS



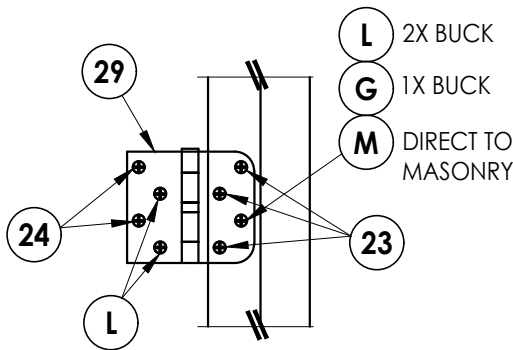
ASTRAGAL
Latch and Deadbolt



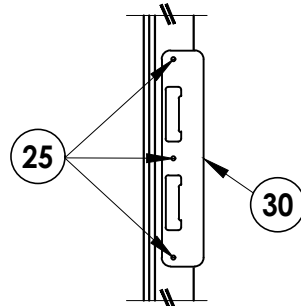
HINGE JAMB



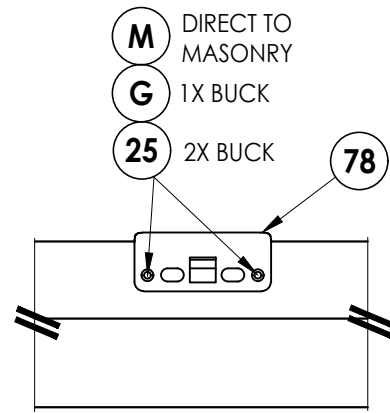
ASTRAGAL
Multipoint Lock



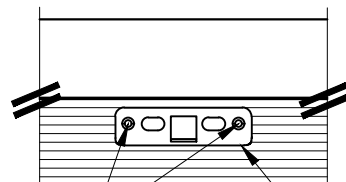
HINGE DETAIL



LATCH & DEADBOLT DETAIL
Multipoint Lock



DETAIL 1
Multipoint Lock Strike Plate @ Head



DETAIL 2
Outswing
Multipoint Lock Strike Plate @ Sill

MULTIPOINT LOCK STRIKE DETAILS

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P.E. No. 43409

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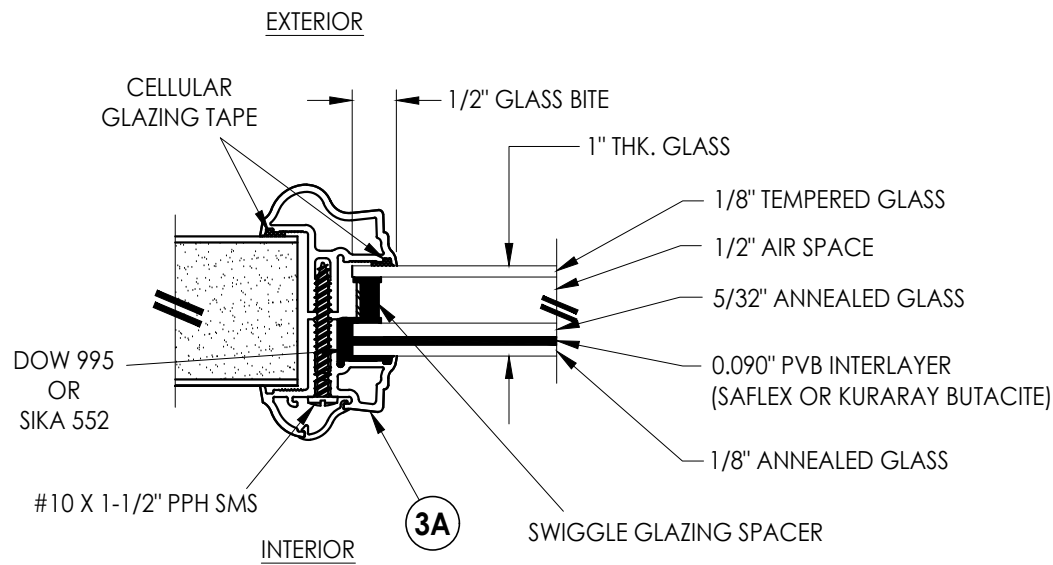
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
HARDWARE DETAILS

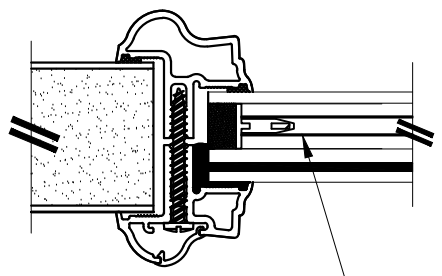
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2	8/17/23	UPDATE TO 8TH ED. (2023) FBC
1	7/15/20	UPDATE TO 7th ED (2020) FBC

DATE:	08/12/19
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-30077.15
SHEET	11 OF 14

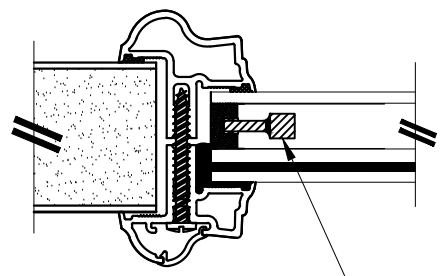
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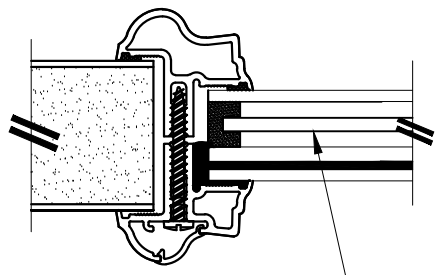
G1 GLAZING DETAIL
Aluminum Impact Lite Frame
Door Panels & Sidelites



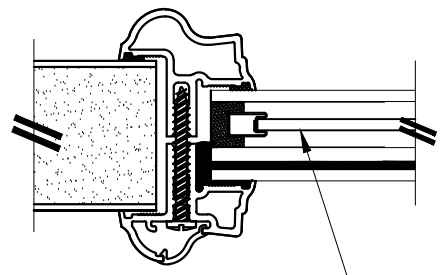
INTERNAL GRID (GBG)



WROUGHT IRON INSERT

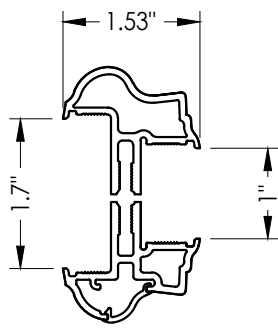


PRIVACY INSERT

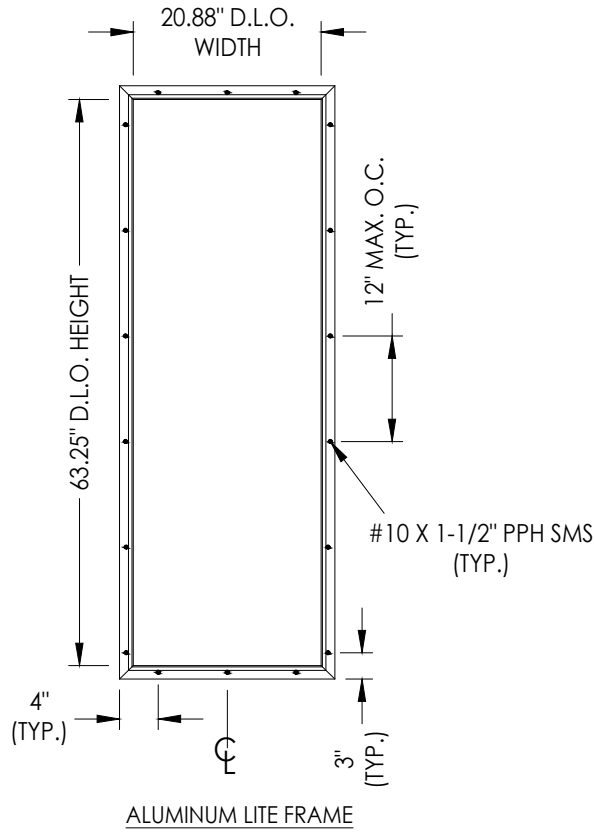


DECORATIVE INSERT

1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS

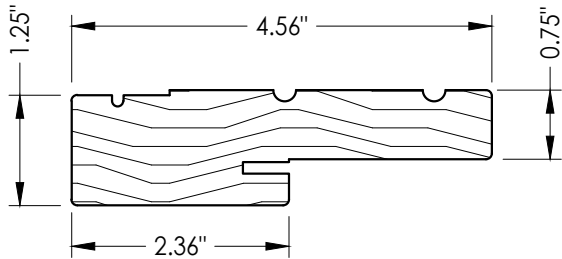


3A ALUMINUM FRAME
Aluminum Impact Lite Frame
Door Panels & Sidelites

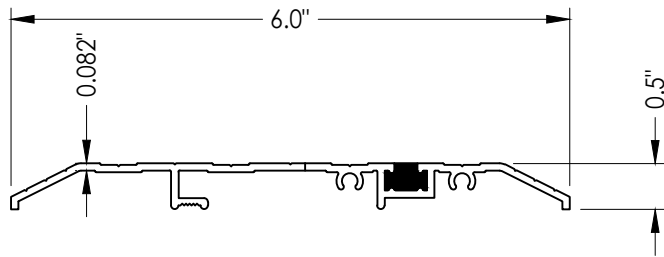


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		R.W. BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY: GLAZING DETAILS	
		LFS	BY
		FBC	PO
2	8/17/23	UPDATE TO 8TH ED. (2023)	DATE
1	7/15/20	UPDATE TO 7th ED (2020)	NO.
REVISIONS			
DATE: 08/12/19			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-30077.15			
SHEET 12 OF 14			

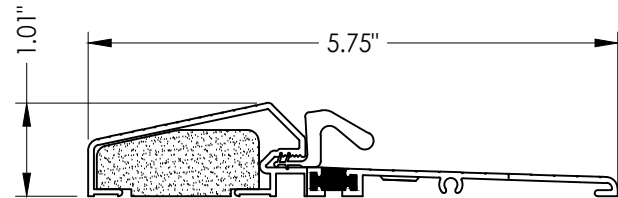
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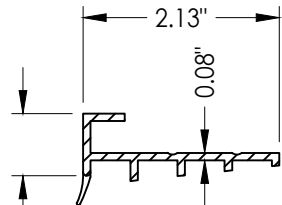
1 WOOD JAMB



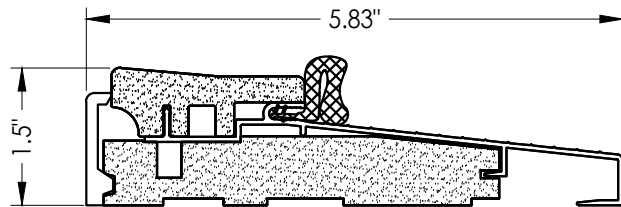
15 PUBLIC ACCESS THRESHOLD



18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)

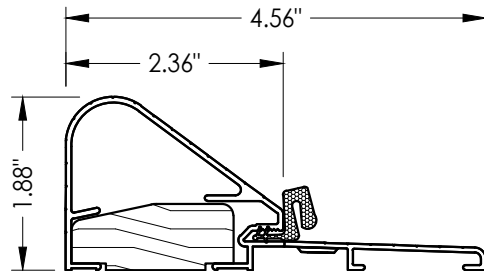


76 SIDELITE SPACER
Outswing

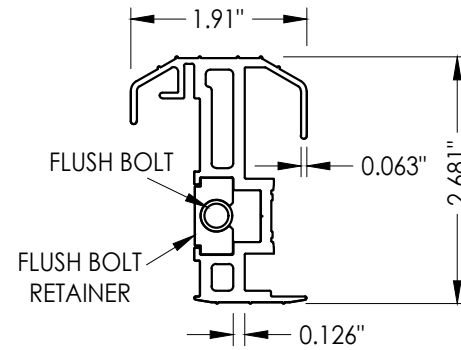


16 OUTSWING THRESHOLD
Composite Sill

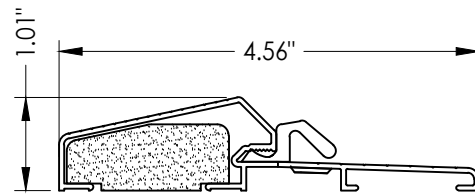
MAX. +55 PSF
(where water infiltration is required)



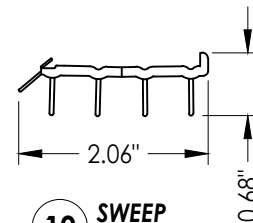
19 COASTAL OUTSWING THRESHOLD
Wood / Aluminum Sill



20 COASTAL ALUMINUM ASTRAGAL



17 OUTSWING THRESHOLD
Composite / Aluminum Sill



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
FIBERGLASS DOOR

PART OR ASSEMBLY:

COMPONENTS

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

DATE: 08/12/19

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:

FL-30077.15

SHEET 13 OF 14

