

Z:\2023 FBC Drawings\Therma-Tru\FL-21133 R10\FL-21133.19-20.dwg

THERMA-TRU[®]
DOORS

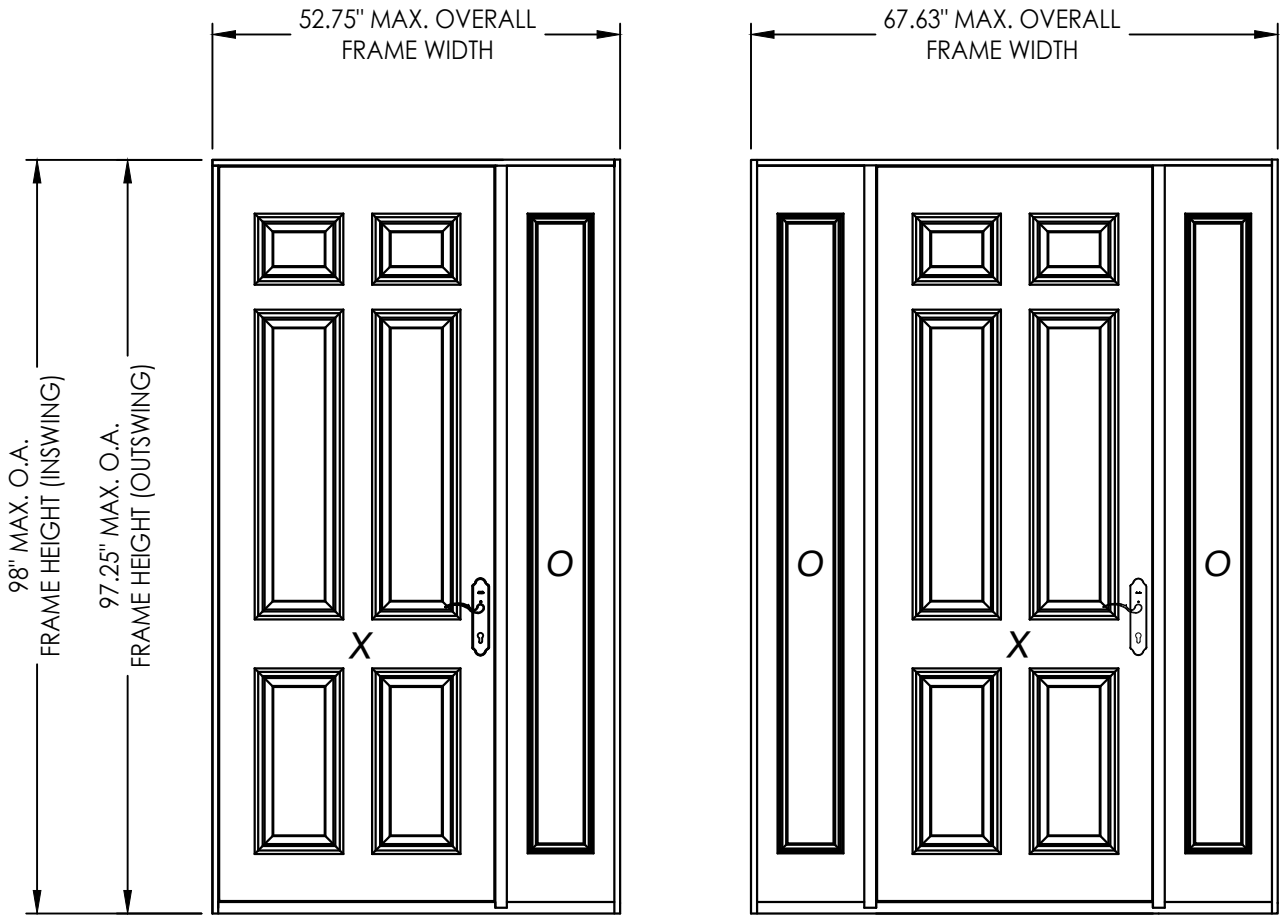
Fiber-Classic[®] & Smooth-Star[®]

WOOD EDGE
OPAQUE FIBERGLASS SINGLE DOOR
w/ SIDELITE(S)
INSWING/OUTSWING
"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 as follows: Wind Zones 1, 2 & 3: Glazed Sidelites only; Wind Zone 4: Entire System.
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.
6. Fiber-Classic & Smooth-Star Door and Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

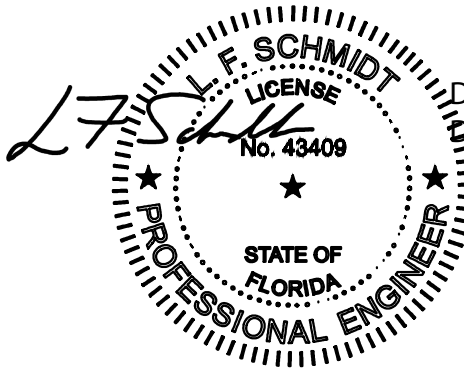
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Sidelite Panel Details
4	Elevations
5	Horizontal & Vertical Cross Sections (2X Buck)
6	Horizontal & Vertical Cross Sections (1X Buck)
7	Horizontal & Vertical Cross Sections (Direct to Masonry)
8	Vertical Cross Sections (Thresholds)
9	Buck Anchoring
10	Frame Anchoring
11	Hardware Details
12	Glazing Details
13	Components
14	Bill of Materials



CONTINUOUS HEAD & SILL

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+55.0	-55.0	+60.0	-60.0

See Sheet 4 for Hardware Specifications



Digitally signed by Lyndon F Schmidt
Date: 2023.08.23 16:17:11 -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
FIBERGLASS DOOR

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-21133.20

SHEET 1 OF 14

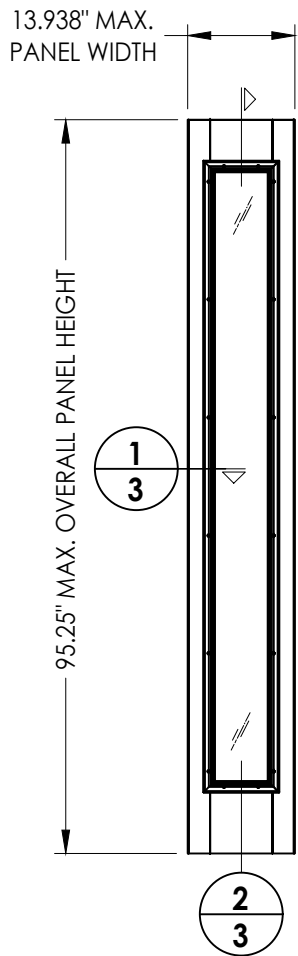
Part or Assembly:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS

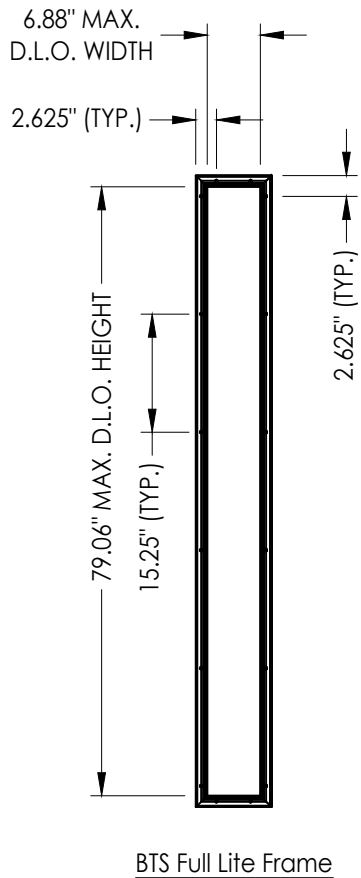
4 8/23/23 UPDATE TO 8TH ED. (2023) FBC LFS
3 7/16/20 UPDATE TO 7th ED (2020) FBC PO
2 10/10/18 REV. DOOR PANEL OPTION NOTE MT
1 11/15/17 RECESSED PANEL NOTATION JK
NO. DATE

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

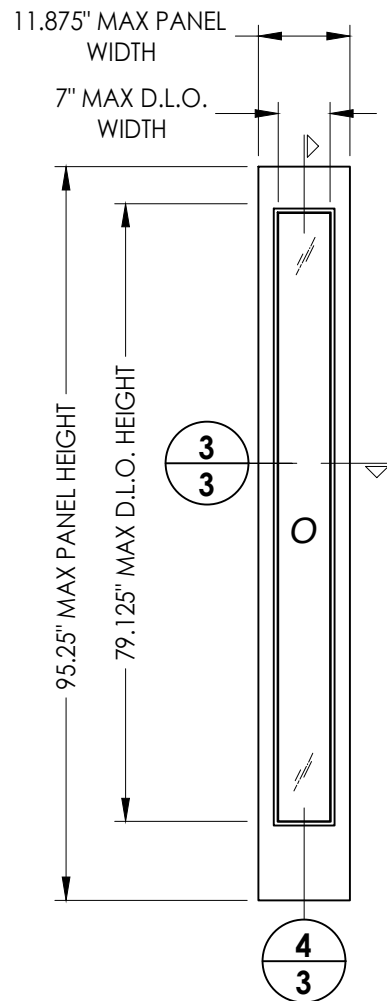
Z:\2023 FBC Drawings\Therma-Tru\FL-21133 R10\FL-21133.19-20.dwg



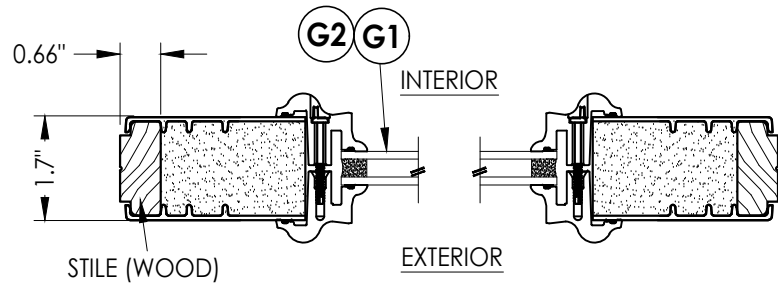
50 **SIDELITE PANEL**
FULL LITE
LIP LITE



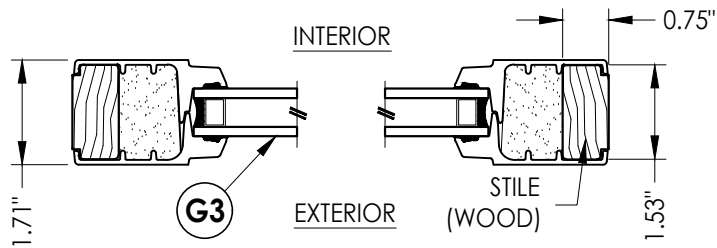
BTS Full Lite Frame



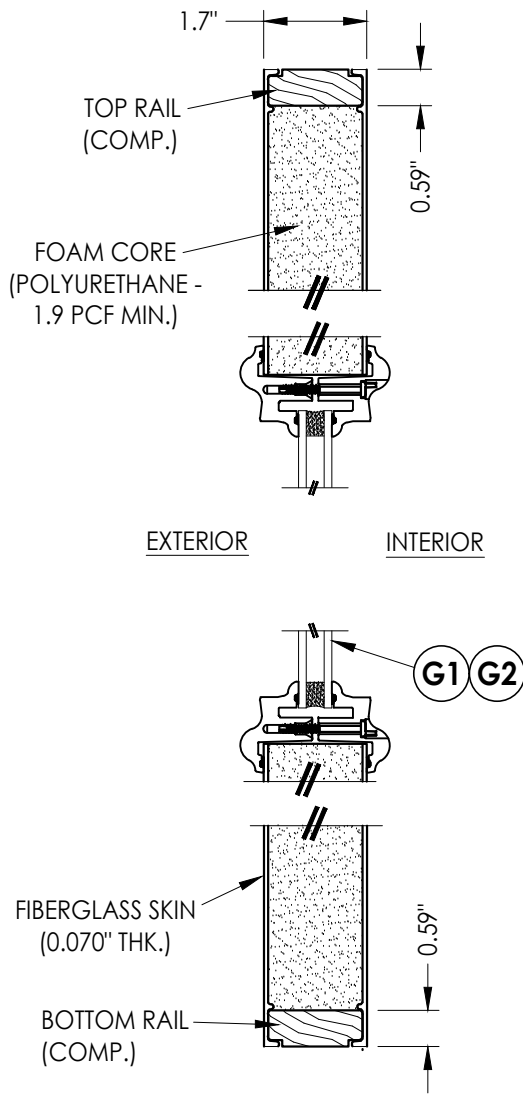
60 **SIDELITE PANEL**
FULL LITE
FLUSH GLAZED



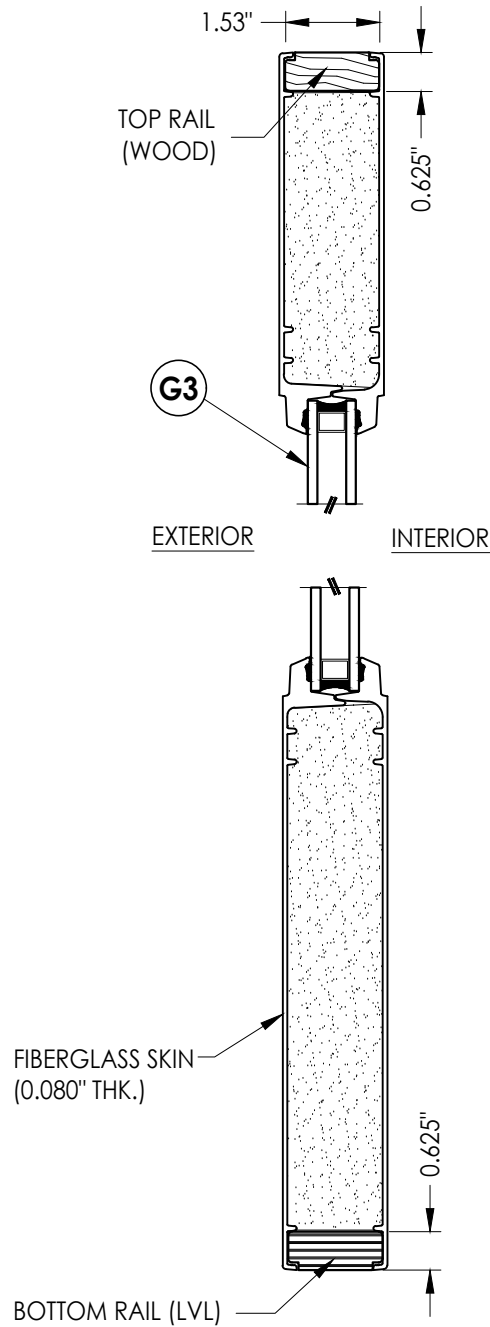
1 **HORIZONTAL CROSS SECTION**
3 Lip Lite Glazing



3 **HORIZONTAL CROSS SECTION**
3 Flush Glazed



2 **VERTICAL CROSS SECTION**
3 Lip Lite Glazing

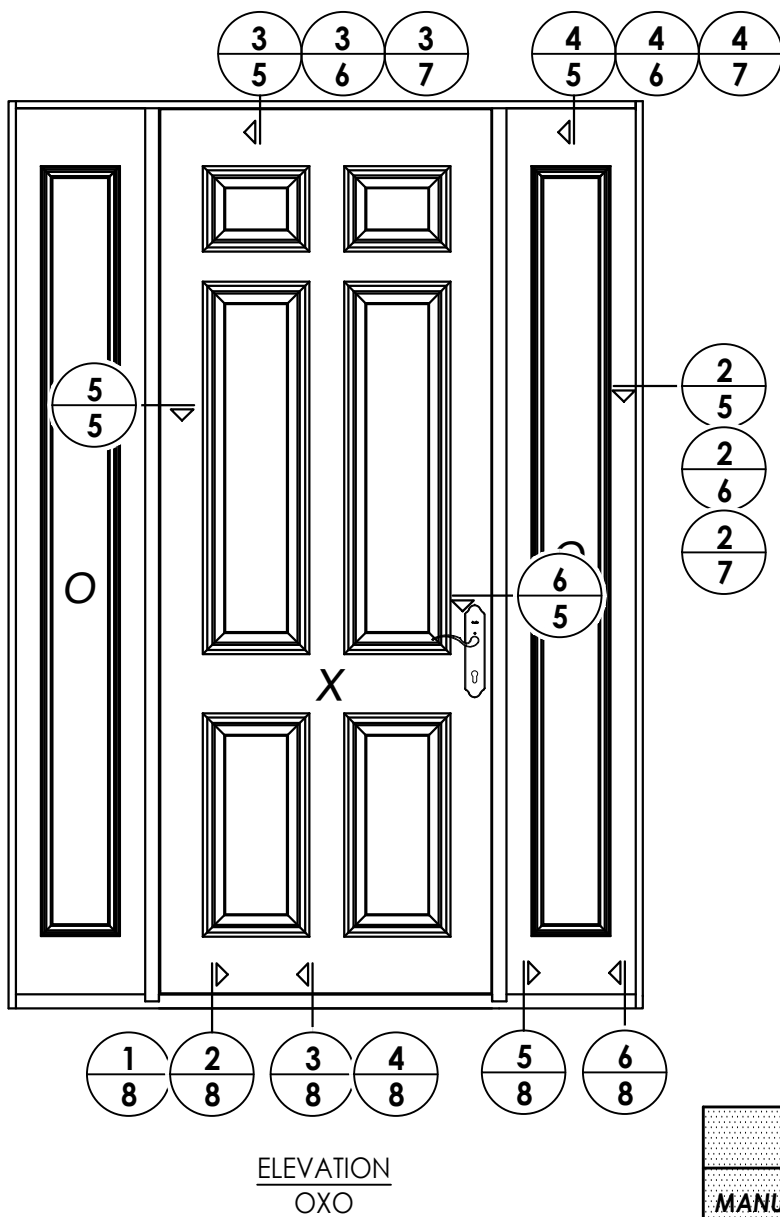


4 **VERTICAL CROSS SECTION**
3 Flush Glazed

PRODUCT:		THERMA-TRU FIBERGLASS DOOR		PART OR ASSEMBLY:		SIDELITE PANEL DETAILS	
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	PO	MT	JK
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO			BY
2	10/10/18	REV. DOOR PANEL OPTION NOTE					
1	11/15/17	RECESSED PANEL NOTATION					
		NO.	DATE				
REVISIONS							
DATE: 07/07/17							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-21133.20							
SHEET 3 OF 14							

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



HARDWARE TABLE	
MANUFACTURER	MODEL
HOPPE (THERMA-TRU)	MULTIPOINT : MPDGART (3 pt. Manual Tongue)

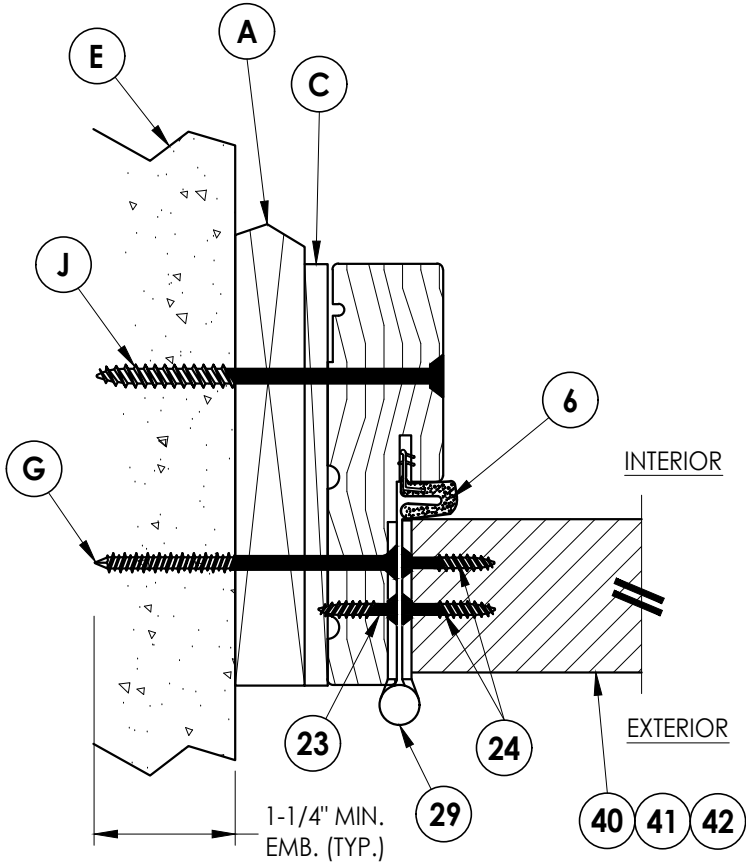
Products approved include all embossed and recessed panel doors.
Similar opaque panel configurations are allowed.
Panels shown are for illustration and are representative only.

DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21133.20
SHEET	4 OF 14

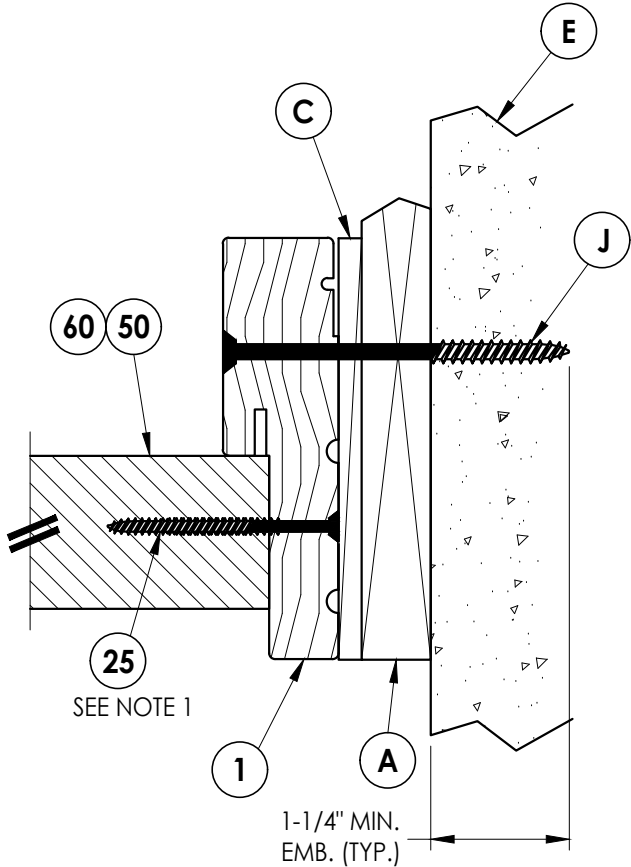
© 2017 R.W. BUILDING CONSULTANTS INC.

Z:\2023 FBC Drawings\Therma-Tru\FL-21133 R10\FL-21133.19-20.dwg

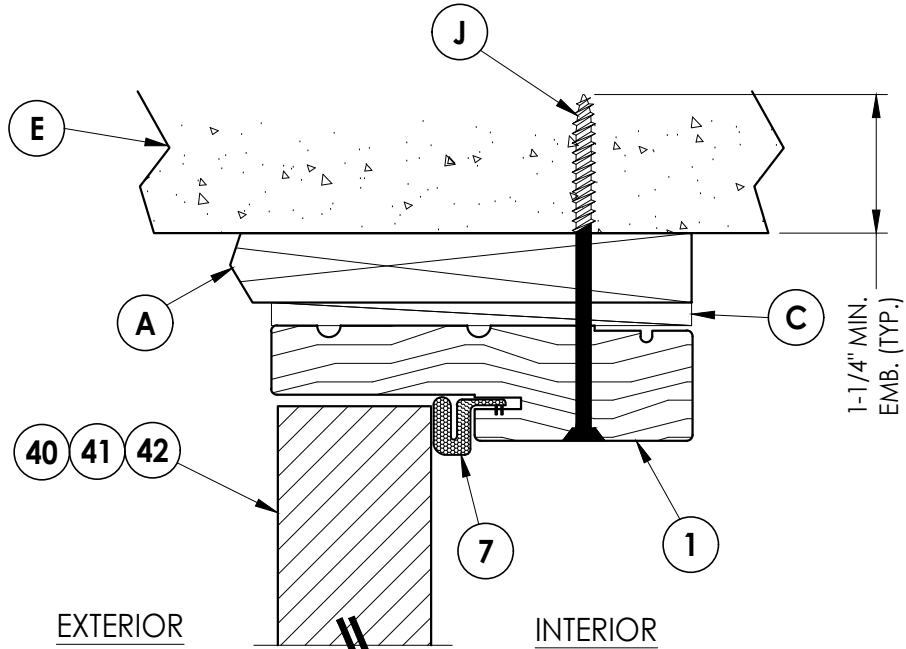
- Notes:
1. Sidelite assembly screws located 6" from each end and then 6 more equally spaced (8 total along jamb/mullion).
 2. Sidelite assembly screws located 3" from each end (2 total along head/sill).



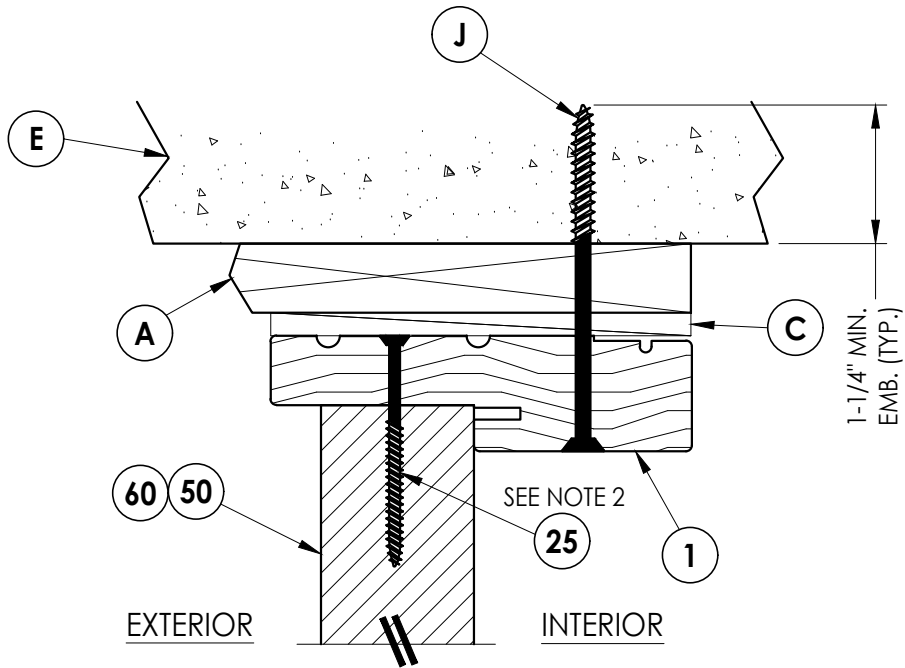
1
6 **HORIZONTAL CROSS SECTION**
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



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
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	7/16/20	UPDATE TO 7th ED (2020) FBC PO
2	10/10/18	REV. DOOR PANEL OPTION NOTE MT
1	11/15/17	RECESSED PANEL NOTATION JK
		BY

DATE: 07/07/17

SCALE: N.T.S.

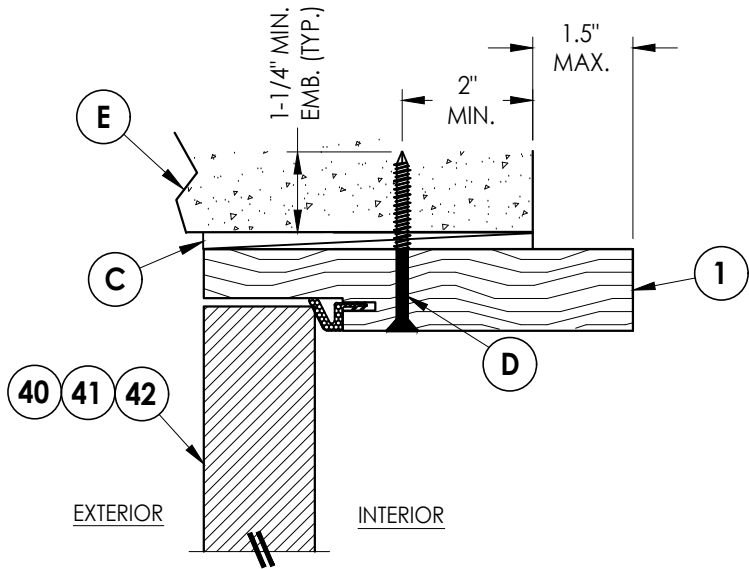
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

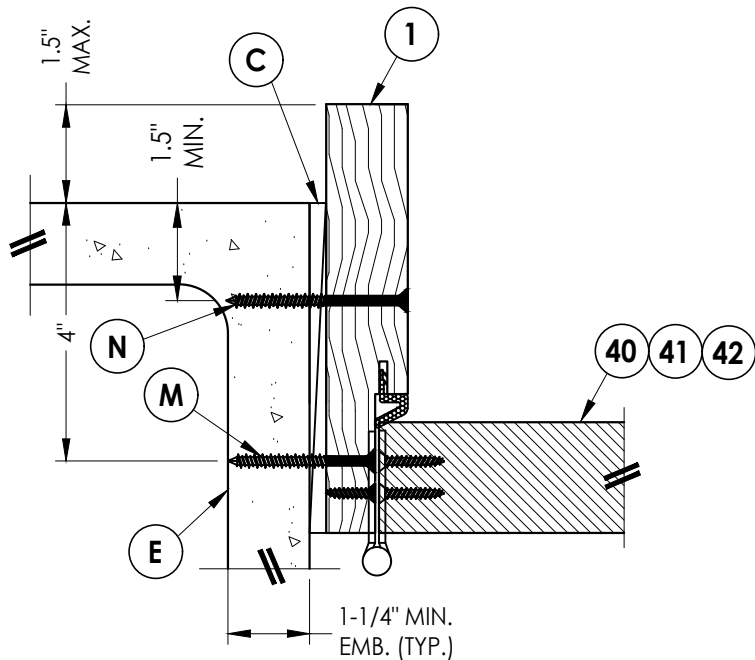
FL-21133.20

SHEET 6 OF 14

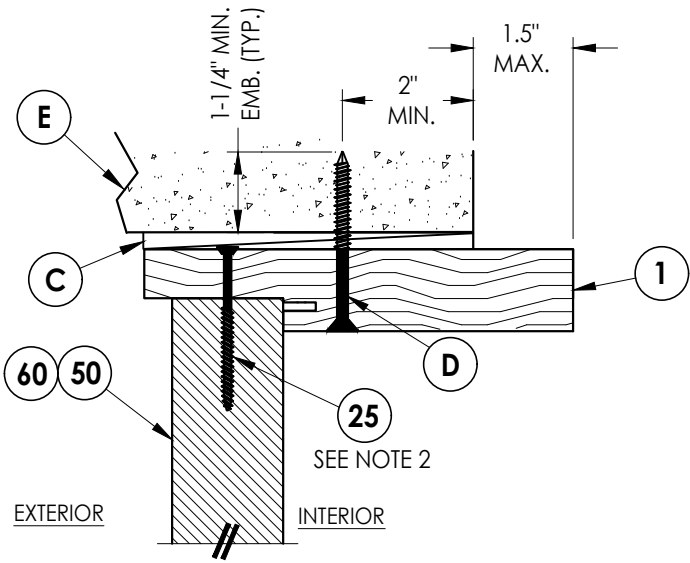


3
7 **HORIZONTAL CROSS SECTION**
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb

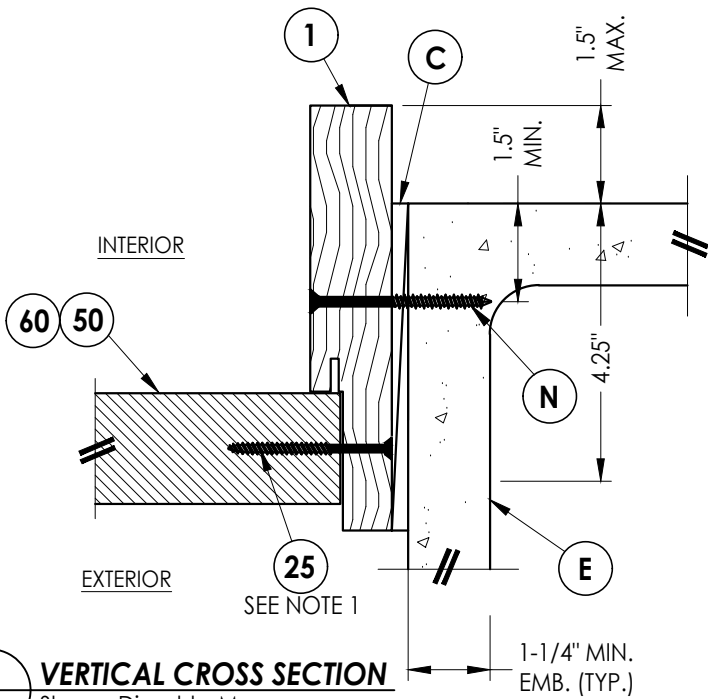
- Notes:
1. Sidelite assembly screws located 6" from each end and then 6 more equally spaced (8 total along jamb/mullion).
 2. Sidelite assembly screws located 3" from each end (2 total along head/sill).



1
7 **HORIZONTAL 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



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

PRODUCT:		THERMA-TRU FIBERGLASS DOOR			
		PART OR ASSEMBLY: HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)			
DATE:	4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
	3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO
	2	10/10/18	REV. DOOR PANEL OPTION	NOTE	MT
	1	11/15/17	RECESSED PANEL NOTATION		JK
	NO.	DATE			BY
REVISIONS					
DATE: 07/07/17					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
DRAWING NO.: FL-21133.20					
SHEET 7 OF 14					

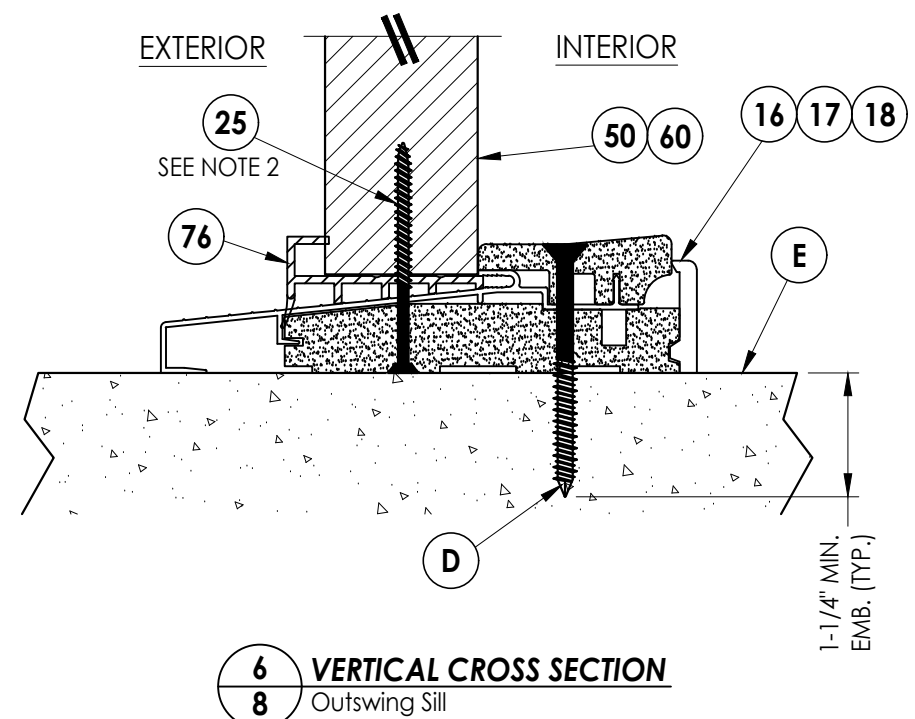
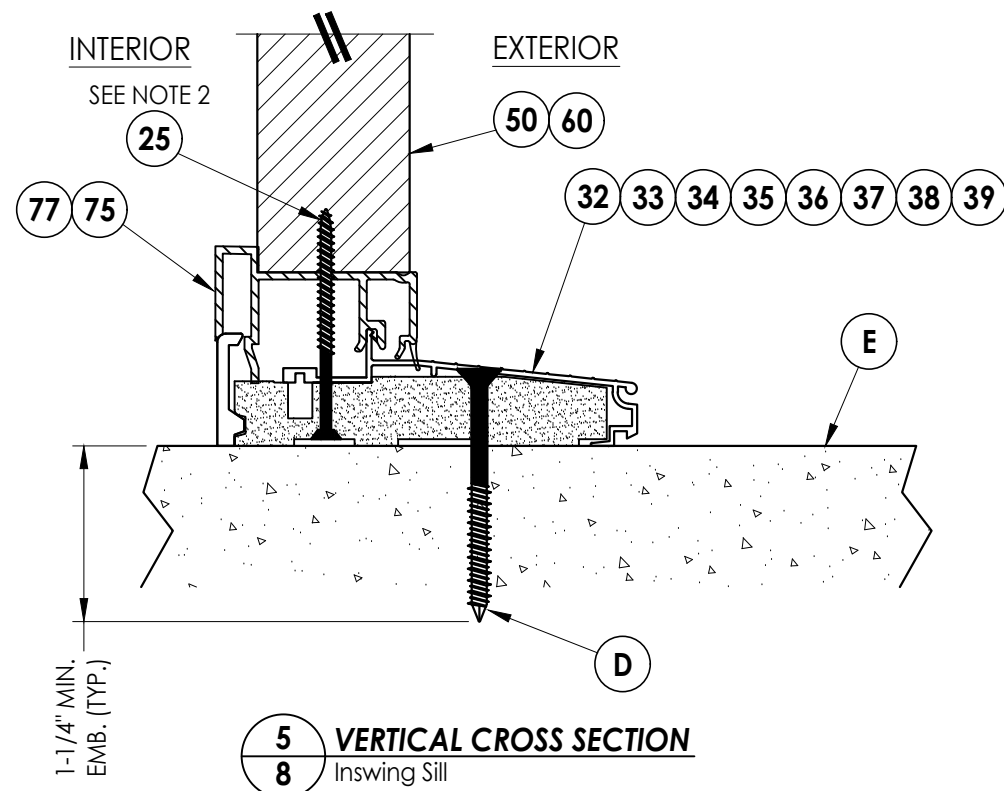
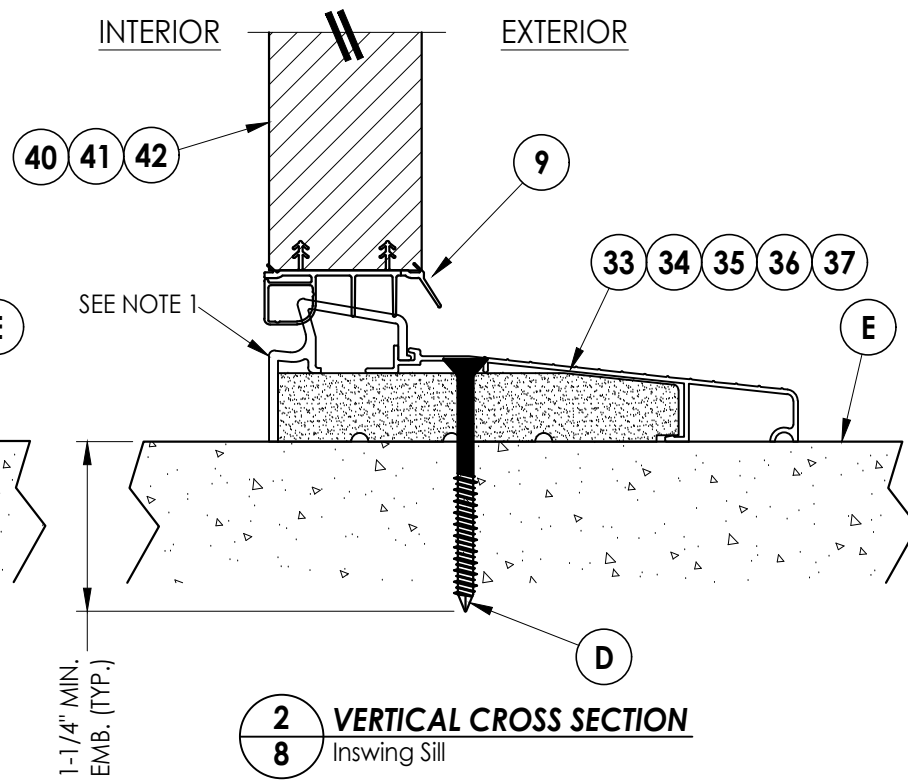
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW

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

© 2017 R.W. BUILDING CONSULTANTS INC.

1. Sill Item #'s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pph screws at each end.
Sill Item #'s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" pph 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 (2 total along head/sill).



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

PART OR ASSEMBLY:

[illegible]



MASONRY
(TYP.)

OXO

2X BUCK ANCHORING

DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21133.20
SHEET	9 OF 14

4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC	LFS		
3	7/16/20	UPDATE TO 7th ED (2020)	FBC	PO		
2	10/10/18	REV. DOOR PANEL OPTION NOTE		MT		
1	11/15/17	RECESSED PANEL NOTATION		JK		
NO.	DATE			BY		
				REVISIONS		

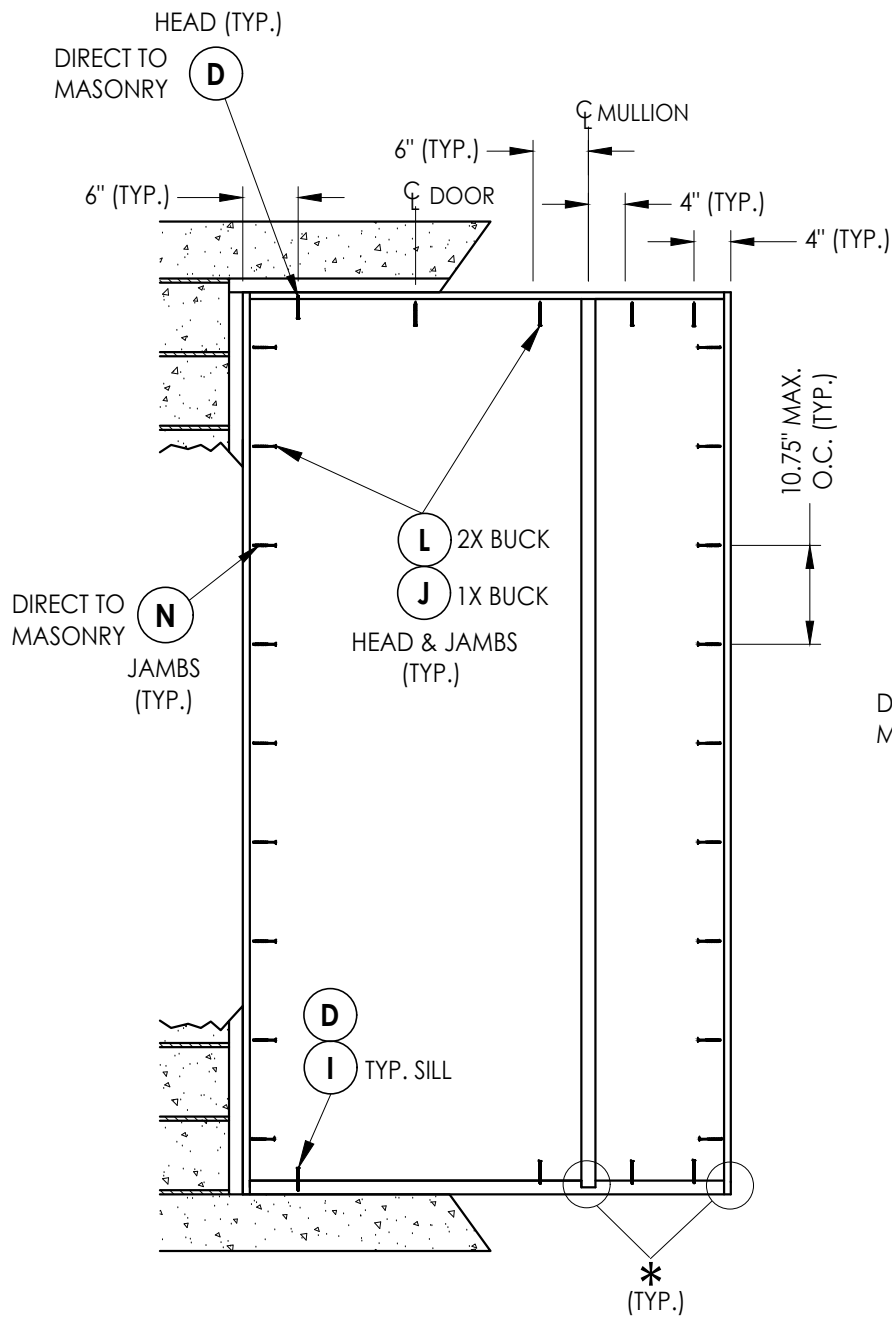
PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY: BUCK ANCHORING

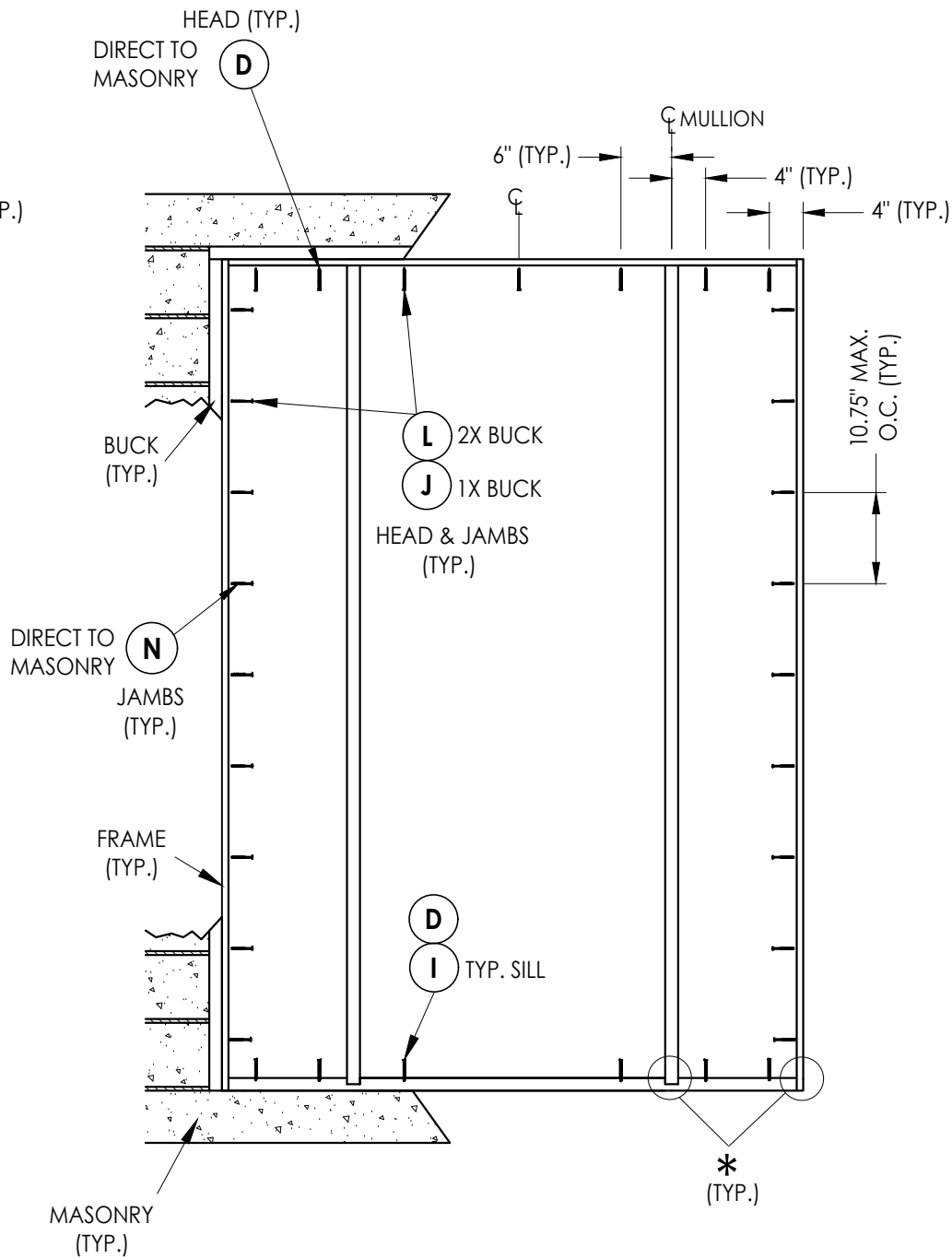
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

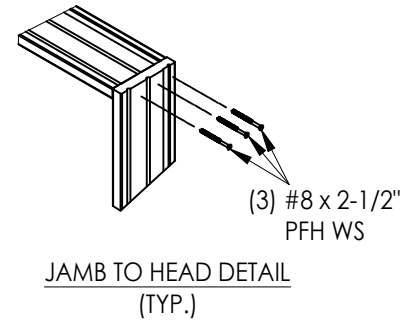
Z:\2023 FBC Drawings\Therma-Tru\FL-21133 R10\FL-21133.19-20.dwg



XO/OX



OXO



* The frame jambs and vertical mullions are secured to the head and sill with (3) #8 x 2-1/2" wood screws each.

FRAME ANCHORING

NO.	DATE	REVISIONS			
		BY	JK	MT	PO
1	11/15/17	RECESSED PANEL NOTATION			
2	10/10/18	REV. DOOR PANEL OPTION NOTE			
3	7/16/20	UPDATE TO 7th ED (2020) FBC			
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC	LFS		

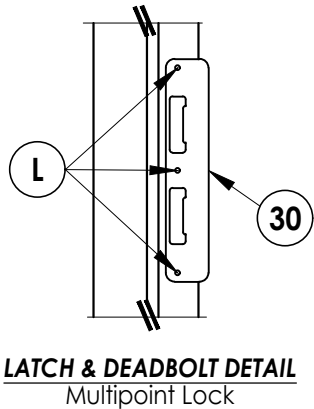
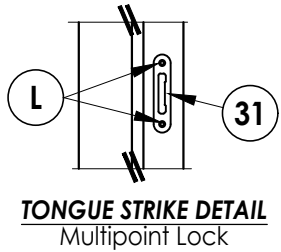
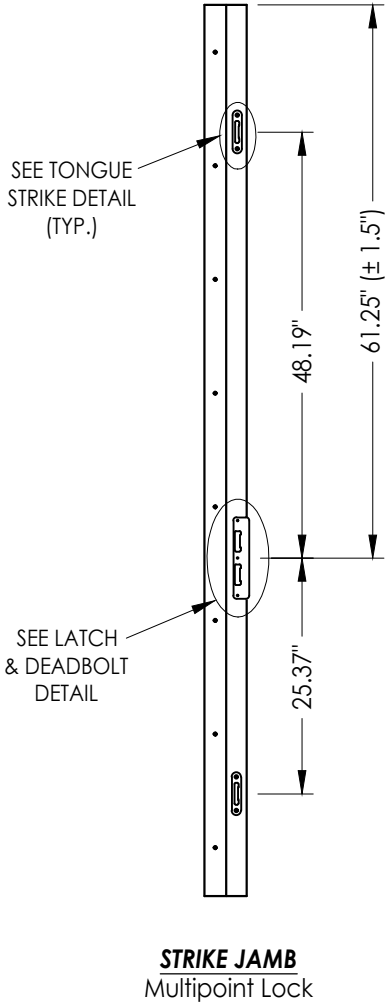
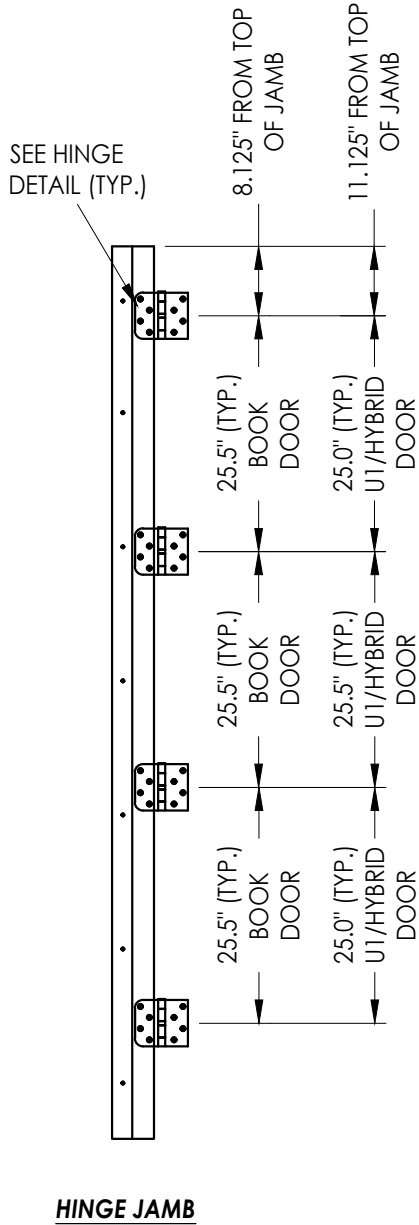
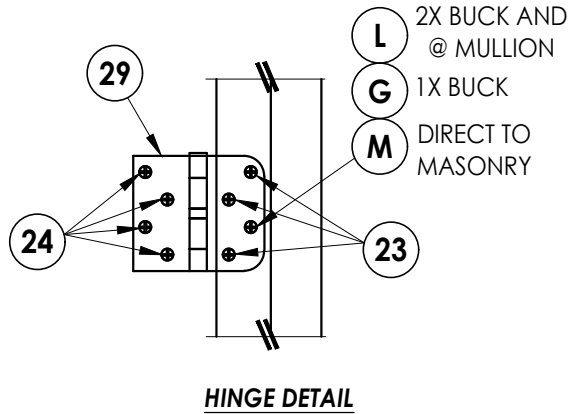
DATE:	07/07/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21133.20
SHEET	10 OF 14

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

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



MULTIPOINT LOCK STRIKE DETAILS

DATE: 07/07/17				DRAWING NO.: FL-21133.20				SHEET 11 OF 14			
SCALE: N.T.S.				CHK. BY: LFS				DWG. BY: JK			
8/23/23 UPDATE TO 8TH ED. (2023) FBC LFS				NO. DATE				REVISIONS			
4	8/23/23	UPDATE TO 8TH ED. (2023) FBC	LFS								
3	7/16/20	UPDATE TO 7th ED (2020) FBC	PO								
2	10/10/18	REV. DOOR PANEL OPTION NOTE	MT								
1	11/15/17	RECESSED PANEL NOTATION	JK								
PRODUCT: THERMA-TRU FIBERGLASS DOOR				PART OR ASSEMBLY: HARDWARE DETAILS				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			

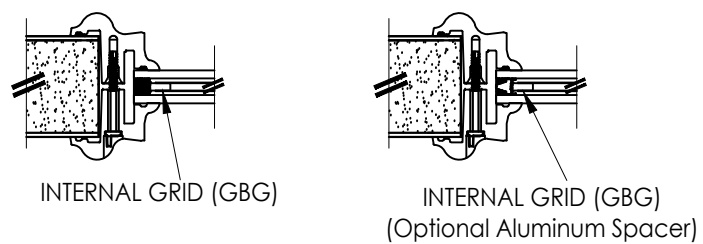


Diagram illustrating six different window blind insert configurations:

- DECORATIVE INSERT
- PRIVACY INSERT
- WROUGHT IRON INSERT
- INTERNAL GRID (GBG)
- INTERNAL GRID (GBG) (Optional Aluminum Spacer)
- MINI BLIND (Aluminum Spacer)

INTERNAL GRID (GBG) INTERNAL GRID (GBG) DECORATIVE INSERT PRIVACY INSERT

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

ASSEMBLY:

[illegible]

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

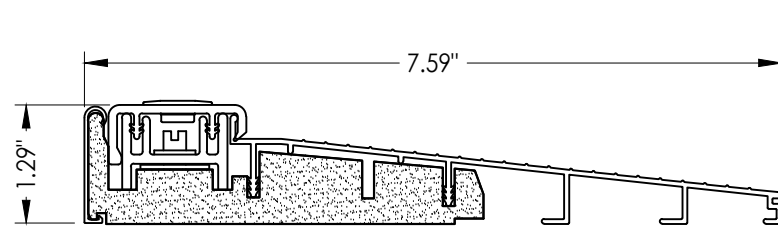
CHK. BY: LFS

DRAWING NO.:

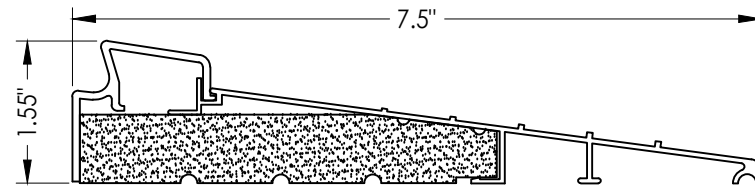
FL-21133.20

SHEET 12 OF 14

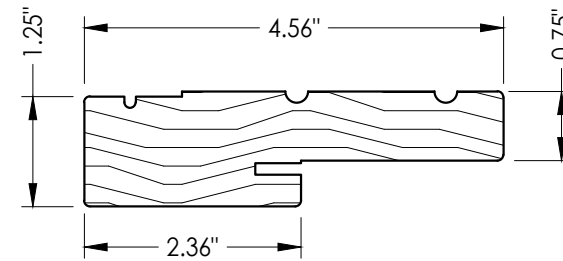
Z:\2023 FBC Drawings\Therma-Tru\FL-21133 R10\FL-21133.19-20.dwg



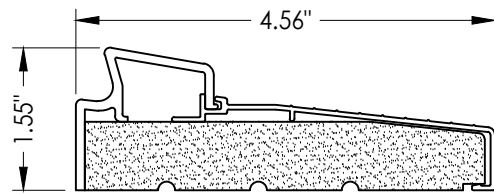
32 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill 7-1/2"



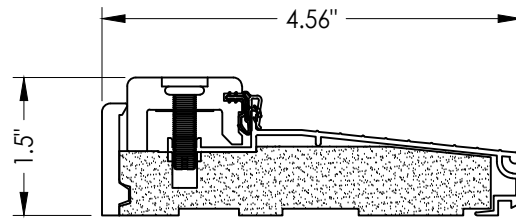
37 INSWING THRESHOLD
Inswing Basic Fixed 7-1/2" Sill



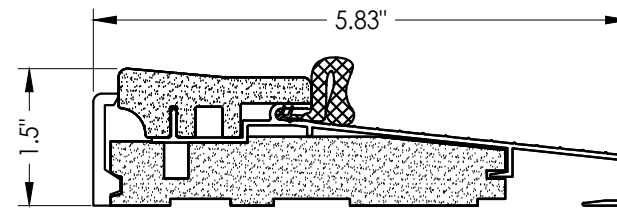
1 WOOD JAMB



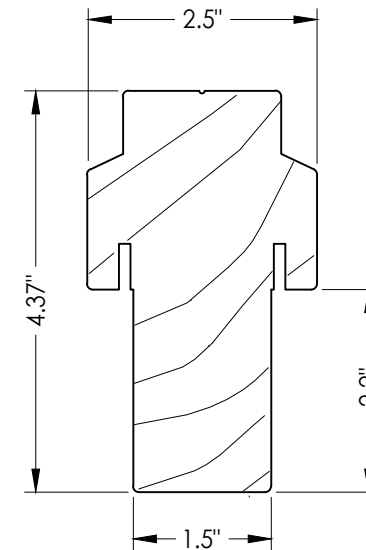
33 INSWING THRESHOLD
Inswing Basic Fixed Sill



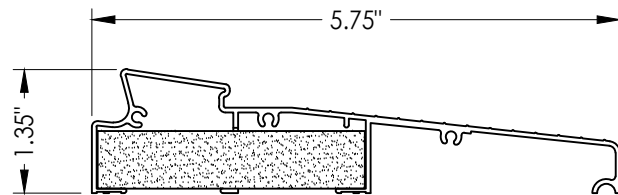
38 INSWING THRESHOLD
Inswing Composite Adjustable Sill



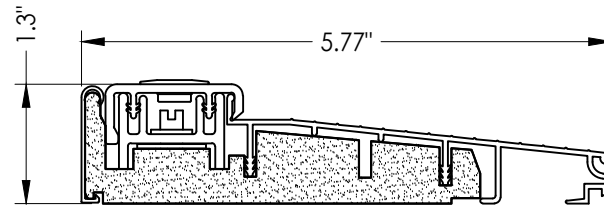
16 OUTSWING THRESHOLD
Composite Sill



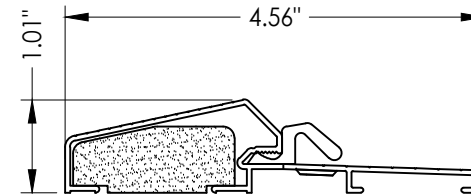
2 INTEGRAL MULLION



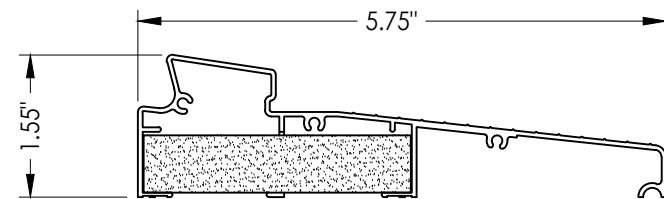
34 INSWING THRESHOLD
Inswing Moderate Climate Sill 1-3/8"



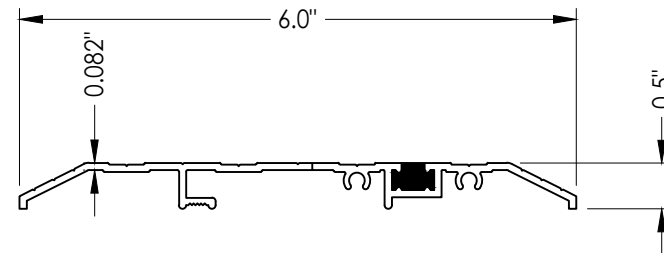
39 INSWING THRESHOLD
Inswing Basic Composite Adjustable Sill



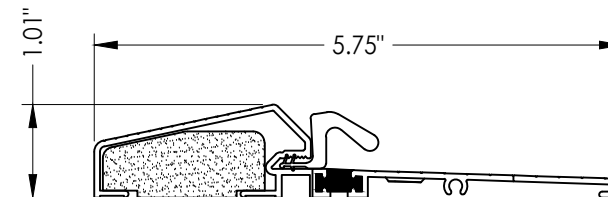
17 OUTSWING THRESHOLD
Composite / Aluminum Sill



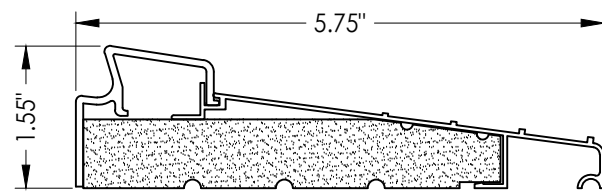
35 INSWING THRESHOLD
Inswing Moderate Climate Sill



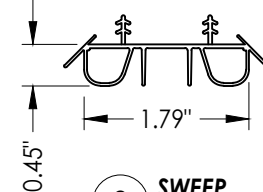
15 PUBLIC ACCESS THRESHOLD



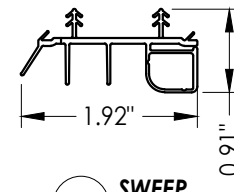
18 OUTSWING THRESHOLD
Composite / Aluminum Sill
(Thermal Break)



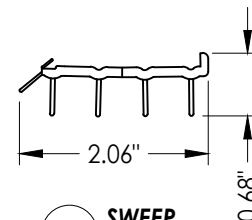
36 INSWING THRESHOLD
Inswing Basic Fixed 5-3/4" Sill



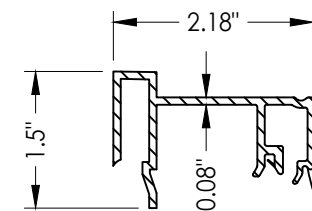
8 SWEEP



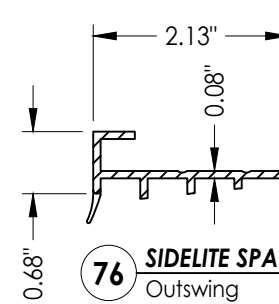
9 SWEEP



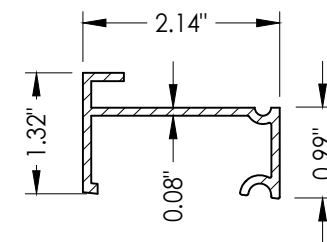
10 SWEEP



75 SIDELITE SPACER
Inswing



76 SIDELITE SPACER
Outswing



77 SIDELITE SPACER
Inswing
Moderate Climate Threshold

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

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

PART OR ASSEMBLY:

COMPONENTS

NO.	DATE	REVISIONS			
		BY	JK	MT	LFS
4	8/23/23	UPDATE TO 8TH ED. (2023)	FBC		
3	7/16/20	UPDATE TO 7th ED (2020)	FBC		
2	10/10/18	REV. DOOR PANEL OPTION	NOTE		
1	11/15/17	RECESSED PANEL NOTATION			

DATE: 07/07/17

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-21133.20

SHEET 13 OF 14

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	29	4" X 4" HINGE	STEEL
C	1/4" MAX. SHIM SPACE	-	30	LATCH & DEADBOLT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	31	MULTIPOINT STRIKE PLATE (TONGUE SYSTEM)	ALUM/COMP
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	32	INSWING THRESHOLD	ALUM/COMP
			33	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	34	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	35	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
1	JAMB (FINGER JOINT PINE)	WOOD	40	DOOR PANEL (BOOK)	-
2	INTEGRAL MULLION (PINE, SG >=0.42)	WOOD	41	DOOR PANEL (HYBRID)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	42	DOOR PANEL (U1)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	50	SIDELITE (FULL LITE)	-
8	SWEEP	VINYL	60	SIDELITE (FLUSH GLAZED)	-
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	75	SIDELITE SPACER (INSWING)	PVC
10	SWEEP (USE w/ PUBLIC ACCESS THRESHOLD)	VINYL	76	SIDELITE SPACER (OUTSWING)	PVC
15	PUBLIC ACCESS THRESHOLD	ALUM	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
16	OUTSWING THRESHOLD	ALUM/COMP			
17	OUTSWING THRESHOLD	ALUM/COMP			
18	OUTSWING THRESHOLD	ALUM/COMP			
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.

[illegible]