



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL17540-R5
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Therma-Tru Corporation
Address/Phone/Email	1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628 sjasperson@thermatru.com
Authorized Signature	Vivian Wright rickw@rwblgdgconsultants.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.
Florida License	PE-43409
Quality Assurance Entity	National Accreditation and Management Institute
Quality Assurance Contract Expiration Date	12/31/2026
Validated By	Ryan J. King, P.E. ☒ Validation Checklist - Hardcopy Received
Certificate of Independence	FL17540 R5 COI (d) Certificate of Independence.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM E1886	2002
ASTM E1886	2005
ASTM E1996	2005
ASTM E1996	2002
ASTM E1996	2009
ASTM E1996	2006
ASTM E330	2002
ASTM E331	2000
TAS 201, 202, 203	1994

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

07/12/2020

Date Validated

07/15/2020

Date Pending FBC Approval

07/20/2020

Date Approved

10/13/2020

Summary of Products

FL #	Model, Number or Name	Description
17540.1	a. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.1 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.1.pdf Created by Independent Third Party: Yes
17540.2	b. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.2 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.2.pdf Created by Independent Third Party: Yes
17540.3	c. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.3.pdf Created by Independent Third Party: Yes
17540.4	d. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.4 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.4.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.4.pdf Created by Independent Third Party: Yes
17540.5	e. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.5 for Design Pressure Ratings, any		Installation Instructions FL17540 R5 II (g) Inst 17540.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports

additional use limitations, installation instructions and product particulars.		FL17540 R5 AE (g) Eval 17540.5.pdf Created by Independent Third Party: Yes
17540.6	f. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.6 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.6.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.6.pdf Created by Independent Third Party: Yes
17540.7	g. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.7 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.7.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.7.pdf Created by Independent Third Party: Yes
17540.8	h. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.8 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (h) Eval 17540.8.pdf Created by Independent Third Party: Yes

[Back](#)
[Next](#)

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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

THERMA-TRU®

Benchmark® Doors

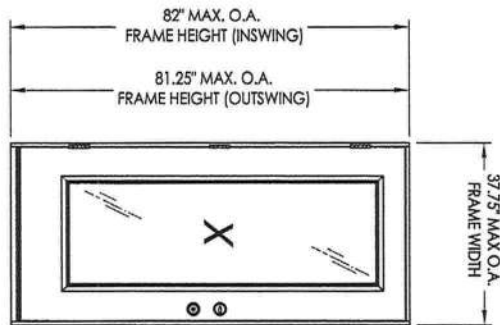
WOOD EDGE GLAZED FIBERGLASS SINGLE DOOR INSWING/OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 "V" 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.
6. Benchmark Door 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	Elevations
4	Horizontal & Vertical Cross Sections (2x Buck)
5	Horizontal & Vertical Cross Sections (1x Buck)
6	Horizontal & Vertical Cross Sections (Direct to Masonry)
7	Vertical Cross Sections (Threshold)
8	Buck & Frame Anchoring
9	Hardware Details
10	Glazing Details
11	Components
12	Bill of Materials



CONFIGURATION	LOCK HARDWARE	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF)	
		INSWING	OUTSWING	POSITIVE	NEGATIVE
X	Latch & Deadbolt	+50.0	-50.0	+50.0	-50.0

See Sheet 3 for Hardware Specifications

PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DATE	REVISION	BY	DATE
7/14/20	UPDATE TO 7th ED (2020) FBC	LFS	
10/08/18	REV. DOOR PANEL OPTION NOTE	MT	
12/03/17	RECESSED PANEL NOTATION	JK	
7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK	
NO.	DATE	BY	DATE

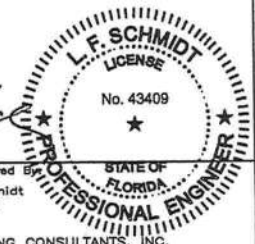
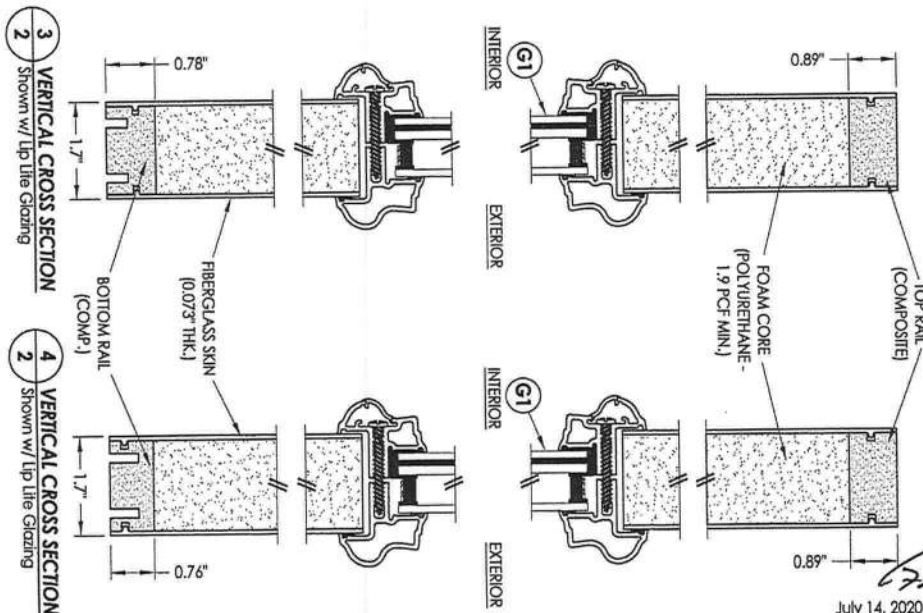
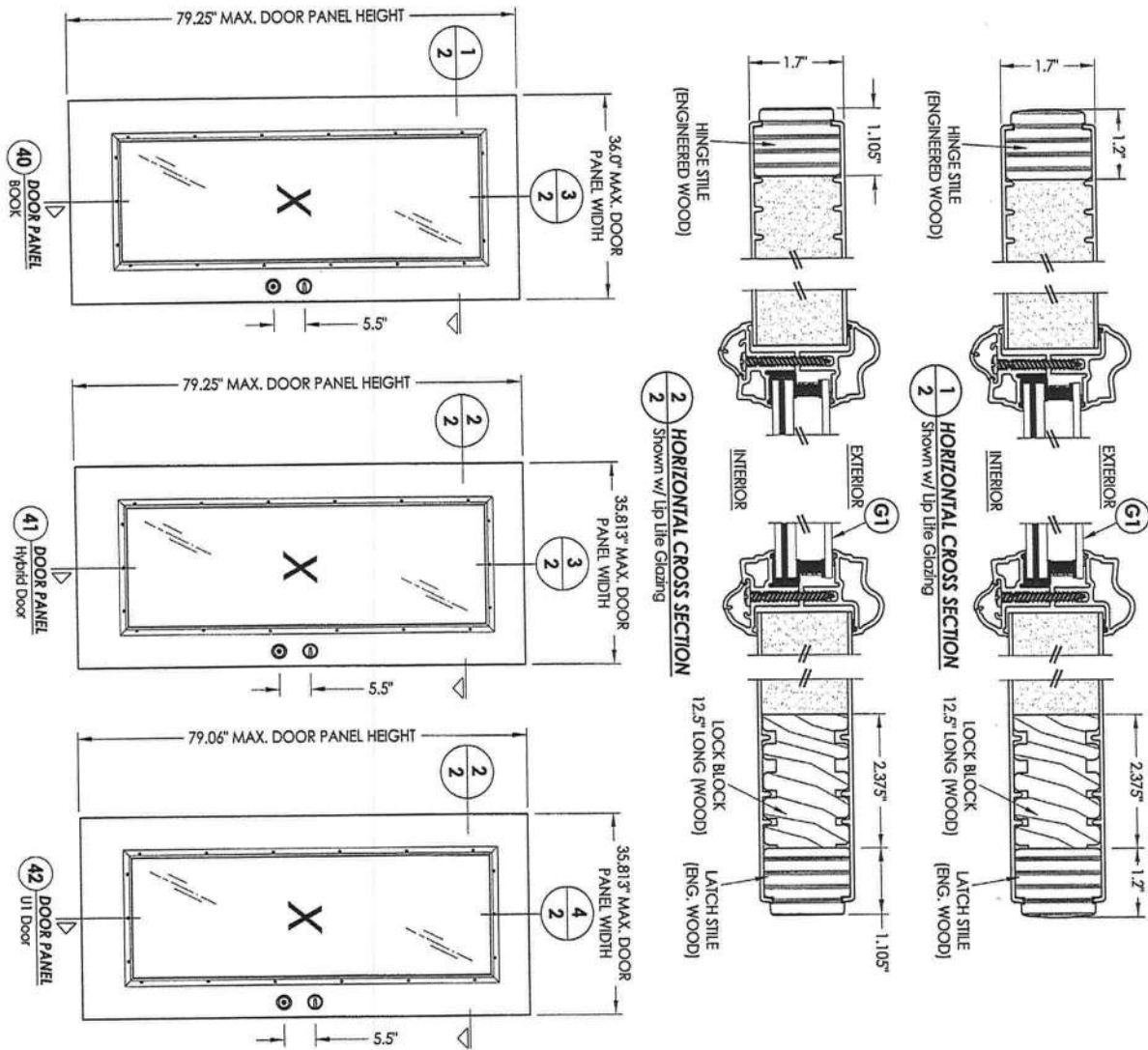
REVISIONS

July 14, 2020

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Lyndon F. Schmidt
P.E. No. 43409

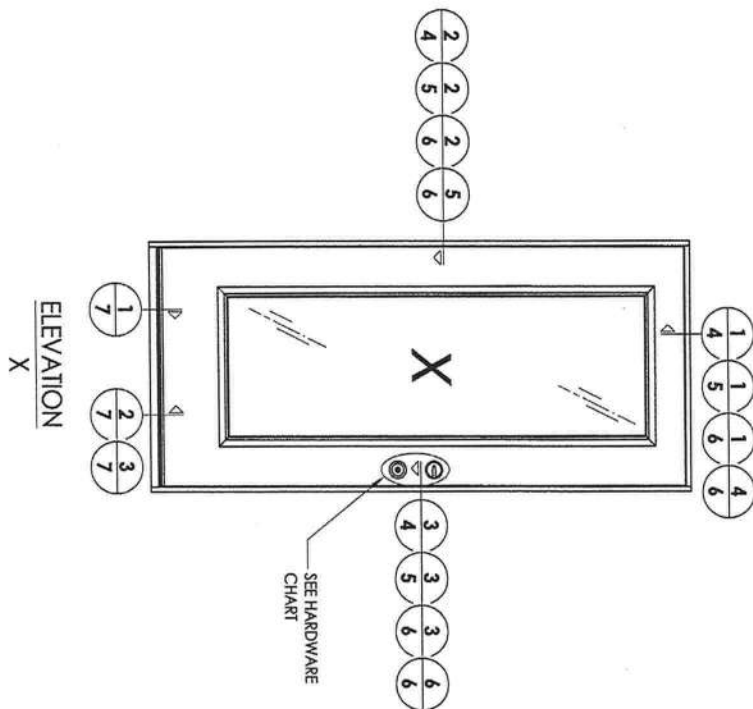
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813





July 14, 2020

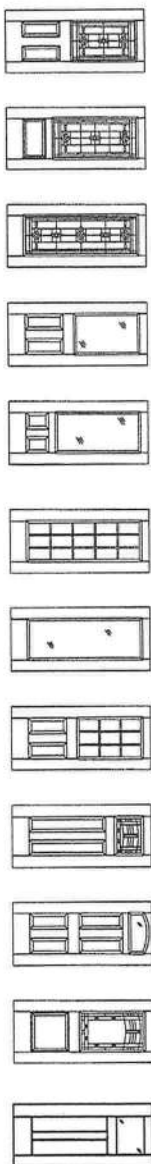
SHEET 2 OF 12	DATE: 04/28/15 SCALE: N.T.S. CHK: BR JK DWG: BR LFS	4 7/14/20 UPDATE TO 7th ED (2020) FBC LFS 3 10/08/18 REV. DOOR PANEL OPTION NOTE MT 2 12/03/17 RECESSED PANEL NOTATION JK 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC JK NO. DATE REVISIONS	PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: DOOR PANEL DETAILS	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	
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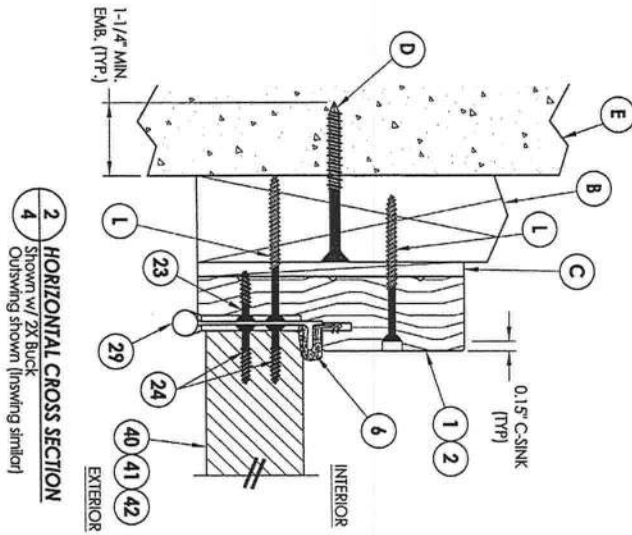
HARDWARE TABLE	
MANUFACTURER	MODEL
SCHLAGE	KNOB: F51 DEADBOLT: B60
Kwikset	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)

Benchmark Door Panel Options

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

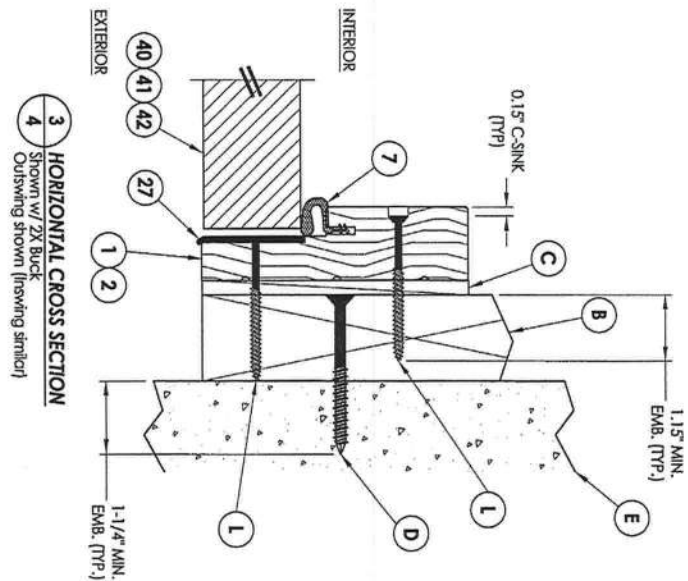
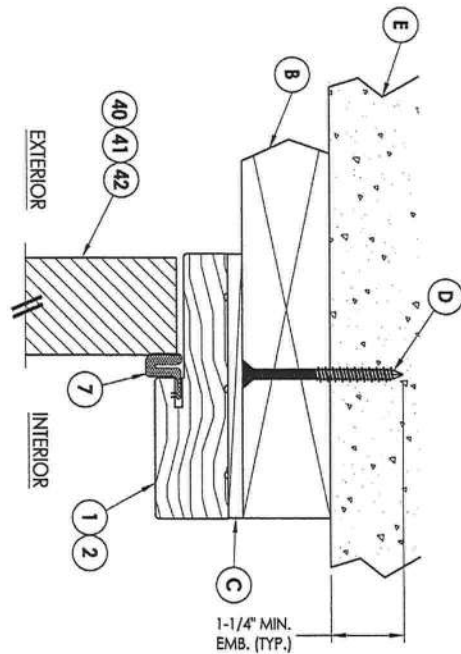


SHEET 3 OF 12 DRAWING NO.: FL-17540.5 CHK. BY: LFS DWS. BY: JK SCALE: N.T.S. DATE: 04/28/15				PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: ELEVATIONS		July 14, 2020 Documents Prepared By: Lyndon F. Schmidt P.E. No. 43408 BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
REVISIONS NO. DATE DESCRIPTION 4 7/14/20 UPDATE TO 7th ED (2020) FBC LFS 3 10/08/18 REV. DOOR PANEL OPTION NOTE MT 2 12/03/17 RECESSED PANEL NOTATION JK 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC JK				PROFESSIONAL ENGINEER L. F. SCHMIDT LICENSE No. 43408 STATE OF FLORIDA		R.W.	



2 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (inswing similar)

1 VERTICAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (inswing similar)



3 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (inswing similar)

July 14, 2020

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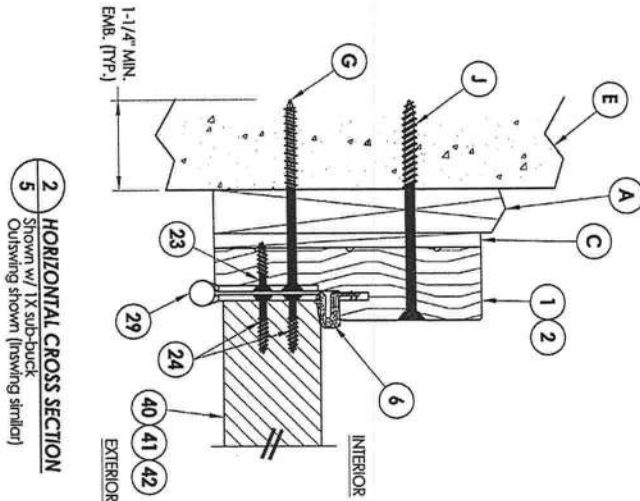
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Phone No.: 813.659.9197
FBPE Registry No. 9813



REVISIONS			
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4	7/14/20	UPDATE TO 7th ED (2020) FBC	LFS
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1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK

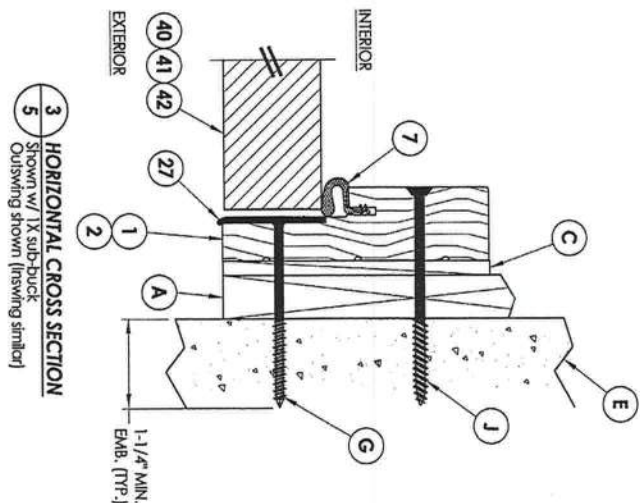
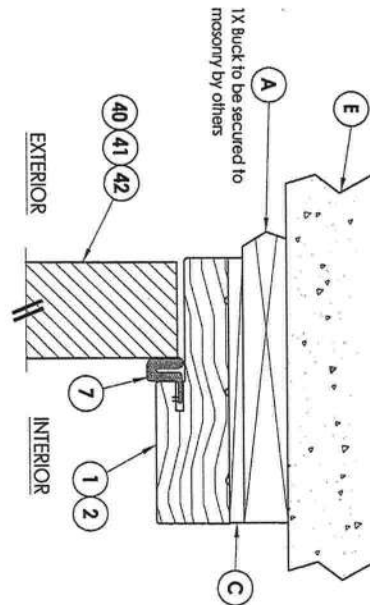
PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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



2 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)

1 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)

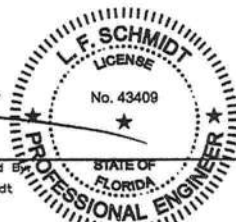


3 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)

July 14, 2020

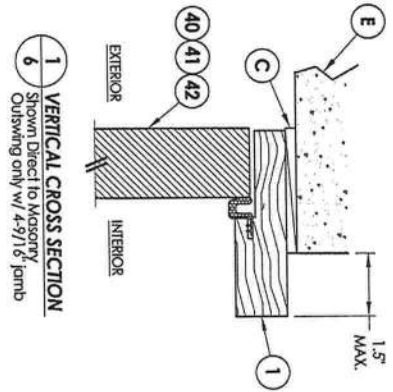
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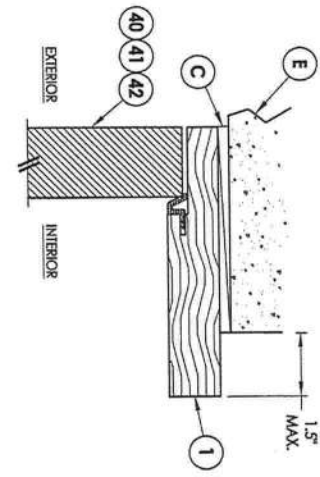


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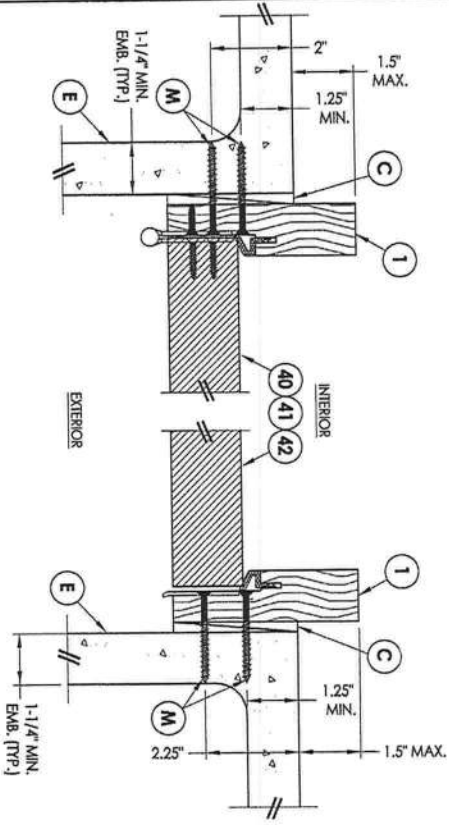
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PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)



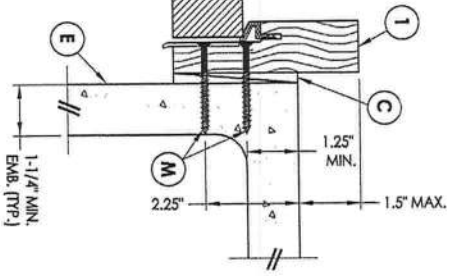
1
6
VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



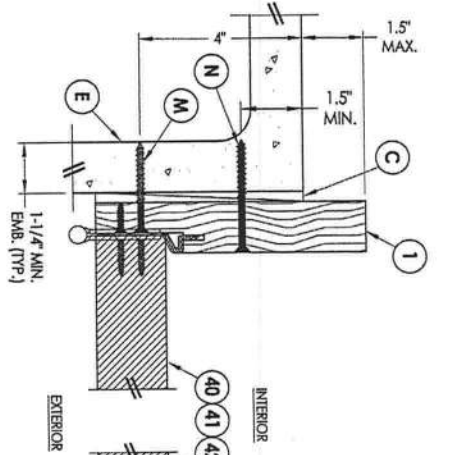
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VERTICAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



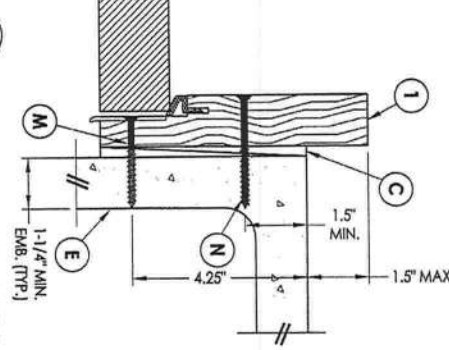
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6
HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 4-9/16" jamb



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



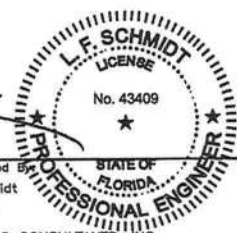
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HORIZONTAL CROSS SECTION
Shown Direct to Masonry
Outswing only w/ 6-9/16" jamb



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

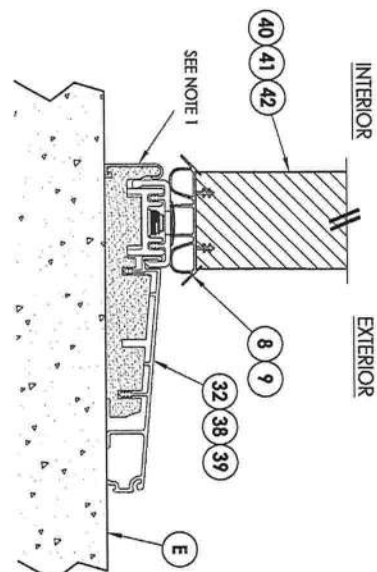
July 14, 2020

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FBPE Registry No. 9813

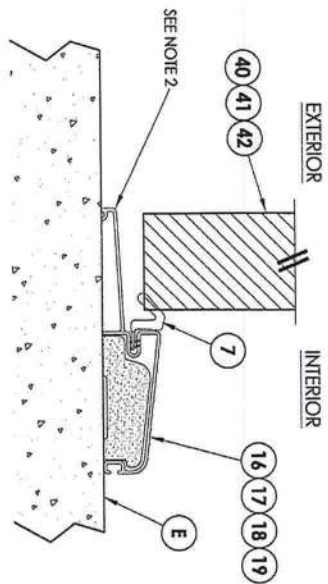


REVISIONS			PRODUCT:	
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3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT	
2	12/03/17	RECESSED PANEL NOTATION	JK	
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK	
PART OR ASSEMBLY:			HORIZONTAL & VERTICAL SECTIONS (DIRECT TO MASONRY)	
DATE: 04/28/15			SCALE: N.T.S.	
CHK. BY: JK			DWG. NO.: FL-17540.5	
SHEET 6 OF 12				

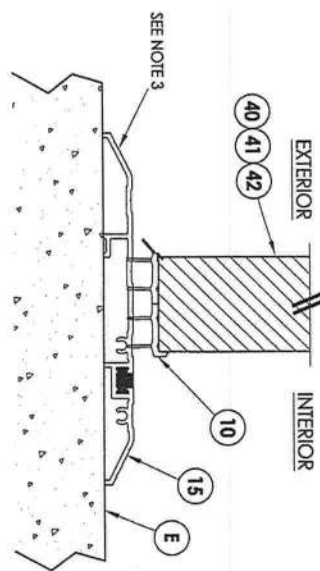
- Notes:
1. Still item #5 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" pin screws or (3) 2.5" staples at each end.
 2. Still item #5 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" pin screws of each end.
 3. Still item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS screws at each end.



1 VERTICAL CROSS SECTION
7 Insulating Sill



2 VERTICAL CROSS SECTION
7 Outswing Sill



3 VERTICAL CROSS SECTION
7 Public Access Sill

July 14, 2020

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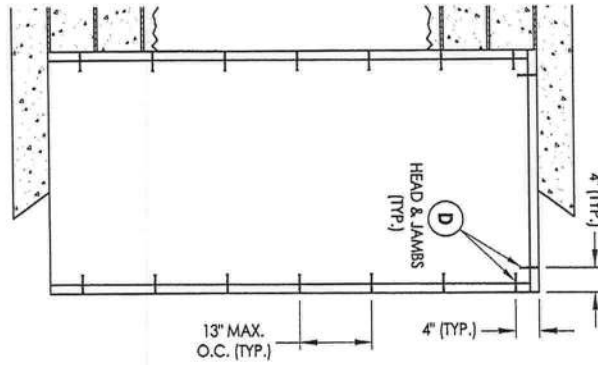
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



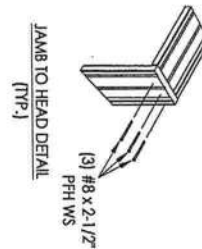
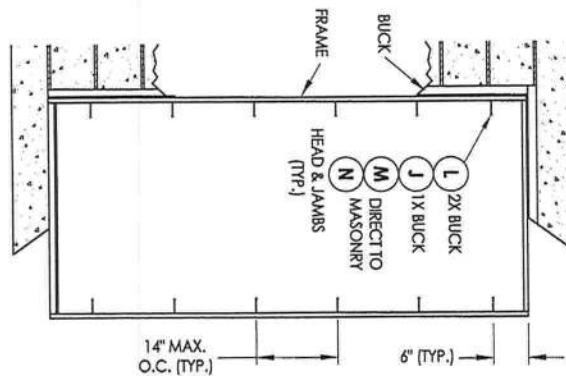
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PART OR ASSEMBLY:				VERTICAL CROSS SECTIONS (THRESHOLDS)			
NO.	DATE	REVISIONS	BY	DATE	REVISIONS	BY	DATE
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3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT				
2	12/03/17	RECESSED PANEL NOTATION	JK				
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK				

DATE: 04/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.5
SHEET 7 OF 12

2X BUCK ANCHORING



FRAME ANCHORING



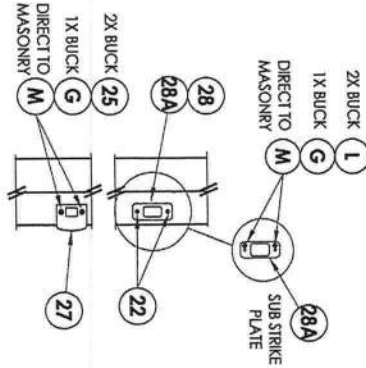
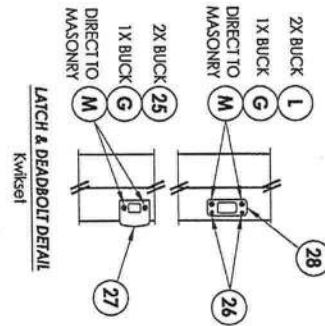
SHEET 8 OF 12	DRAWING NO.: FL-17540.5	CHK. BY: LFS	SCALE: N.T.S.	DATE 04/28/15																																							

July 14, 2020

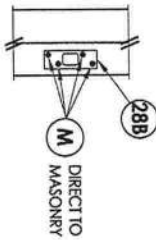
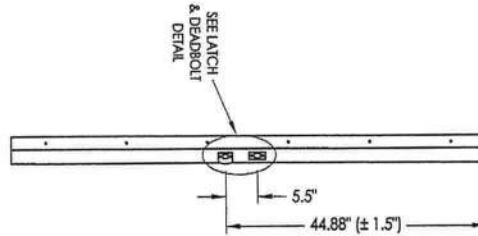
Documents Prepared by
Lyndon F. Schmidt
P.E. No. 43409

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

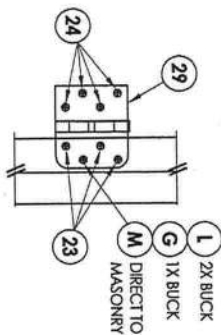
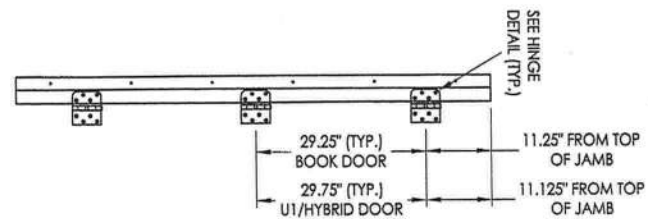




LATCH & DEADBOLT STRIKE DETAILS
(Standard Deadbolt Strike Plate)



DEADBOLT STRIKE DETAILS
(Security Deadbolt Strike Plate)

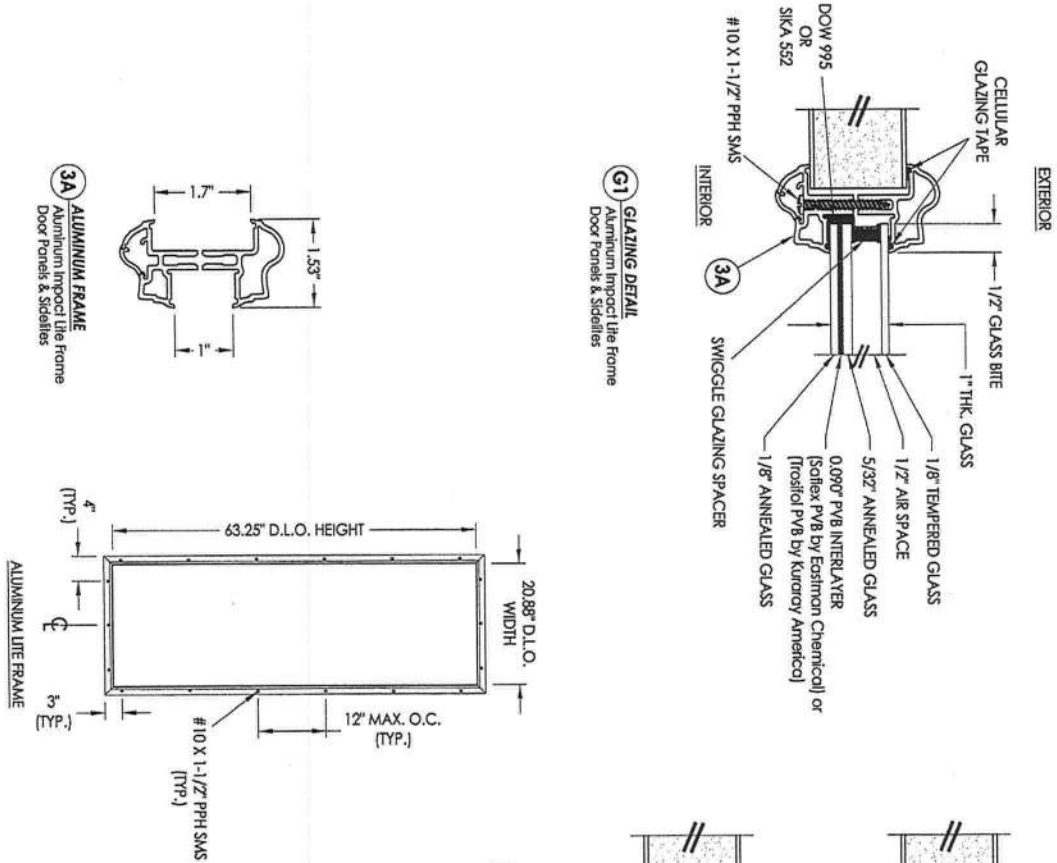


HINGE DETAIL

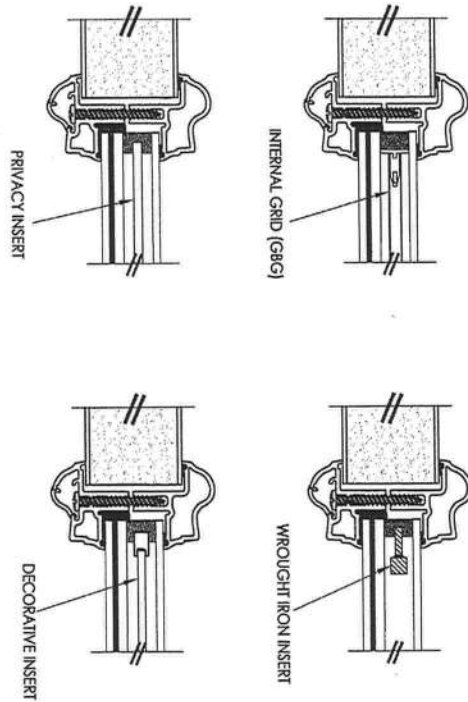
July 14, 2020



PRODUCT:		THERMA-TRU FIBERGLASS DOOR	
PART OR ASSEMBLY:		HARDWARE DETAILS	
NO.	DATE	REVISIONS	BY
4	7/14/20	UPDATE TO 7th ED (2020) FBC	LFS
3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
2	12/03/17	RECESSED PANEL NOTATION	JK
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK

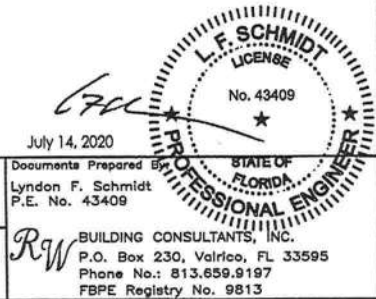


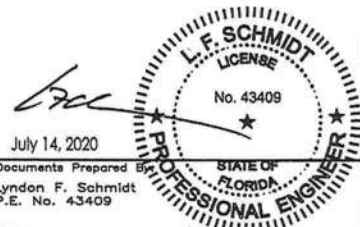
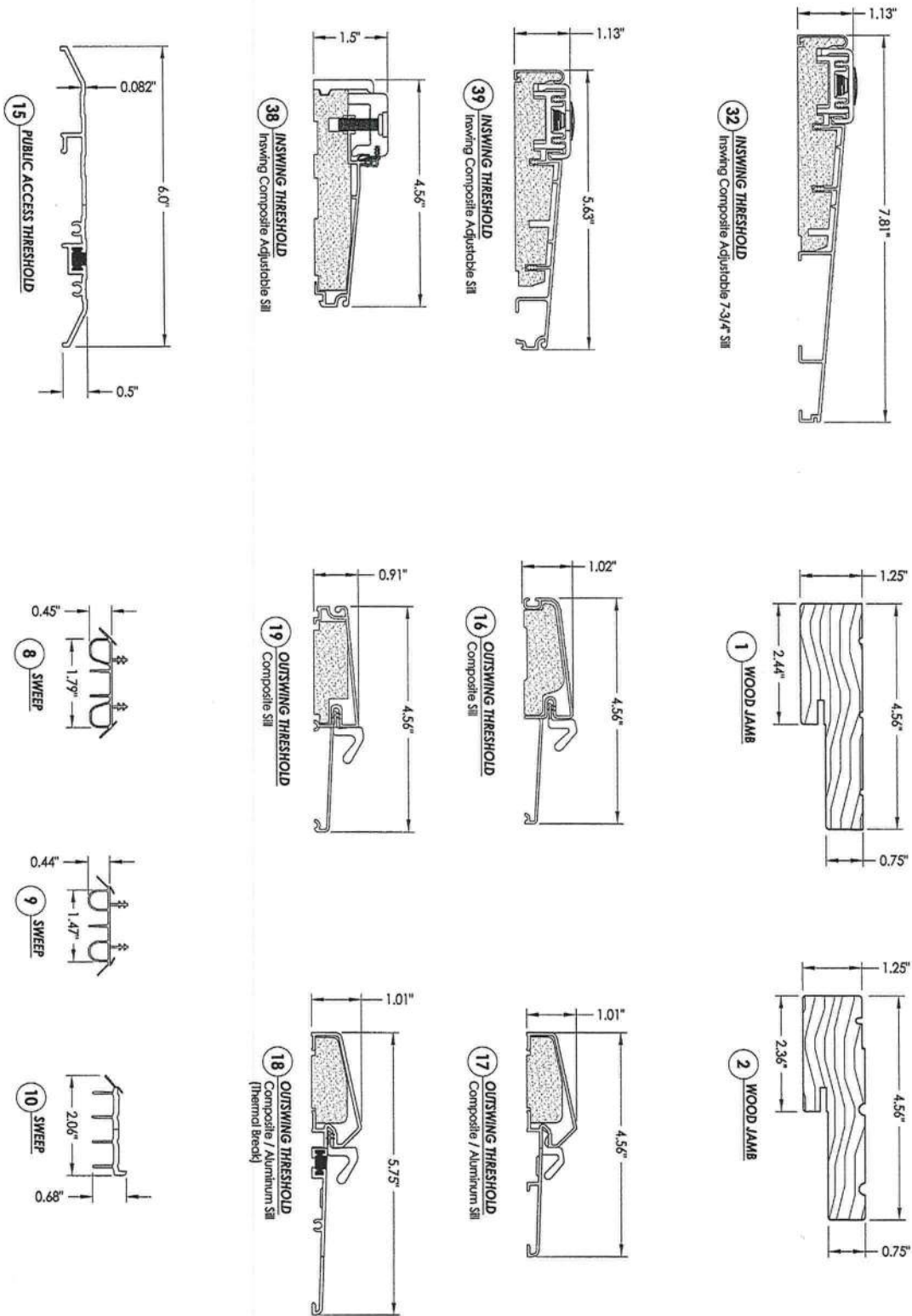
1" LAMINATED INSULATED IMPACT GLASS INSERT OPTIONS



DATE: 04/28/15 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO. FL-17540.5 SHEET 10 OF 12				PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: GLAZING DETAILS		Documents Prepared by Lyndon F. Schmidt P.E. No. 43409 STATE OF FLORIDA PROFESSIONAL ENGINEER Rw BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																					
REVISIONS <table><tr><td>NO.</td><td>DATE</td><td></td><td></td></tr><tr><td>4</td><td>7/14/20</td><td>UPDATE TO 7th ED (2020) FBC</td><td>LFS</td></tr><tr><td>3</td><td>10/08/18</td><td>REV. DOOR PANEL OPTION NOTE</td><td>MT</td></tr><tr><td>2</td><td>12/03/17</td><td>RECESSED PANEL NOTATION</td><td>JK</td></tr><tr><td>1</td><td>7/17/17</td><td>UPDATE TO 6TH ED. (2017) FBC</td><td>JK</td></tr></table>				NO.	DATE			4	7/14/20	UPDATE TO 7th ED (2020) FBC	LFS	3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT	2	12/03/17	RECESSED PANEL NOTATION	JK	1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK				
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1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK																								

July 14, 2020





July 14, 2020

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:		COMPONENTS	
NO.	DATE	REVISIONS	BY
4	7/14/20	UPDATE TO 7th ED (2020) FBC	LFS
3	10/08/18	REV. DOOR PANEL OPTION NOTE	MT
2	12/03/17	RECESSED PANEL NOTATION	JK
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC	JK

BILL OF MATERIALS		BILL OF MATERIALS	
ITEM #	DESCRIPTION	MATERIAL	ITEM #
A	1X BUCK (SG >= 0.42)	WOOD	25
B	2X BUCK (SG >= 0.42)	WOOD	26
C	1/4" MAX. SHIM SPACE	-	27
D	1/4" X 2-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	28
E	MASONRY - 3000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	28A
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	28B
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	29
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	32
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	38
N	3/16" X 2-3/4" ITW CONCRETE SCREW	STEEL	39
1	JAMB (FINGER JOINT PINE)	WOOD	40
2	JAMB (FINGER JOINT PINE)	WOOD	41
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	42
7	WEATHERSTRIP (LONG REACH)	FOAM	
8	SWEEP	VINYL	
9	SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)	VINYL	
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	OUTSWING THRESHOLD	ALUM/COMP	
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	

ITEM #	DESCRIPTION	MATERIAL
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 5/8" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE (STANDARD)	STEEL
28A	DEADBOLT SUB STRIKE PLATE	STEEL
28B	DEADBOLT STRIKE PLATE (SECURITY)	STEEL
29	4" X 4" HINGE	STEEL
32	INSWING THRESHOLD	ALUM/COMP
38	INSWING THRESHOLD	ALUM/COMP
39	INSWING THRESHOLD	ALUM/COMP
40	DOOR PANEL (BOOK)	-
41	DOOR PANEL (HYBRID)	-
42	DOOR PANEL (UI)	-

CONCRETE ANCHOR NOTES:

1. Concrete anchor locations of 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	1/4"	1-1/4"	2"	4"
ELCO	1/4"	1-1/4"	1"	4"
ULTRACON	1/4"	1-1/4"	1"	4"
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.

REVISIONS NO. DATE DESCRIPTION BY 4 7/14/20 UPDATE TO 7th ED (2020) FBC LFS 3 10/08/18 REV. DOOR PANEL OPTION NOTE MT 2 12/03/17 RECESSED PANEL NOTATION JK 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC JK		PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: BILL OF MATERIALS	July 14, 2020 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
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Product Approval
USER: Public User

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SECRETARY

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #	FL20468-R5
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Therma-Tru Corporation
Address/Phone/Email	1750 Indian Wood Circle Maumee, OH 43537 (800) 843-7628 sjasperson@thermatru.com
Authorized Signature	Vivian Wright rickw@rwblgdgconsultants.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Lyndon F. Schmidt, P.E.
Florida License	PE-43409
Quality Assurance Entity	National Accreditation and Management Institute
Quality Assurance Contract Expiration Date	12/31/2026
Validated By	Ryan J. King, P.E. ☒ Validation Checklist - Hardcopy Received
Certificate of Independence	FL20468 R5 COI (e) Certificate of Independence.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM E1886	2002
ASTM E1886	2005
ASTM E1886	2013
ASTM E1996	2014
ASTM E1996	2009
ASTM E1996	2006
ASTM E1996	2002
ASTM E1996	2005
ASTM E330	2002
ASTM E330	2014
ASTM E331	2000

Equivalence of Product Standards
Certified By

Florida Licensed Professional Engineer or Architect
FL20468 R5 Equiv of Standards (a).pdf

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

12/31/2020

Date Validated

04/15/2021

Date Pending FBC Approval

04/22/2021

Date Approved

06/08/2021

Summary of Products

FL #	Model, Number or Name	Description
20468.1	a. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Opaque Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.1 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468 R5 II (f) Inst 20468.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468 R5 AE (g) Eval 20468.1.pdf Created by Independent Third Party: Yes
20468.2	b. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.2 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468 R5 II (f) Inst 20468.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468 R5 AE (g) Eval 20468.2.pdf Created by Independent Third Party: Yes
20468.3	c. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Opaque Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468 R5 II (f) Inst 20468.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468 R5 AE (g) Eval 20468.3.pdf Created by Independent Third Party: Yes
20468.4	d. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Opaque Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.4 for Design Pressure Ratings, any		Installation Instructions FL20468 R5 II (f) Inst 20468.4.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports

additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		FL20468_R5_AE (g) Eval 20468.4.pdf Created by Independent Third Party: Yes
20468.5	e. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Opaque Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.5 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.5.pdf Created by Independent Third Party: Yes
20468.6	f. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Opaque Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.6 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.6.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.6.pdf Created by Independent Third Party: Yes
20468.7	g. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.7 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.7.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.7.pdf Created by Independent Third Party: Yes
20468.8	h. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.8 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.8.pdf Created by Independent Third Party: Yes
20468.9	i. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.9 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J"		Installation Instructions FL20468_R5_II (f) Inst 20468.9.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.9.pdf Created by Independent Third Party: Yes

part numbers for these doors, which have been stained or painted within six months of installation.)		
20468.10	j. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Glazed Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.10 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.10.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.10.pdf Created by Independent Third Party: Yes
20468.11	k. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Glazed Composite Edge Fiberglass Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.11 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.11.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.11.pdf Created by Independent Third Party: Yes
20468.12	l. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 8'0 "Impact" Glazed Composite Edge Fiberglass Double Door with or without Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.12 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (f) Inst 20468.12.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (h) Eval 20468.12.pdf Created by Independent Third Party: Yes
20468.13	m. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Molded Open Composite Edge Fiberglass Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.13 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (g) Inst 20468.13.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (g) Eval 20468.13.pdf Created by Independent Third Party: Yes
20468.14	n. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Molded Open Composite Edge Fiberglass Single Door with Glazed Molded Open Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.14 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (g) Inst 20468.14.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (g) Eval 20468.14.pdf Created by Independent Third Party: Yes
20468.15	o. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Glazed Molded Open Composite Edge Fiberglass Double Door with or without Glazed Molded Open

		Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.15 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (g) Inst 20468.15.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (g) Eval 20468.15.pdf Created by Independent Third Party: Yes
20468.16	p. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Opaque Composite Edge Fiberglass Single Door with Molded Open Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.16 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (g) Inst 20468.16.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (g) Eval 20468.16.pdf Created by Independent Third Party: Yes
20468.17	q. Therma-Tru Fiber-Classic and Smooth-Star	Nominal 6'8 "Impact" Opaque Composite Edge Fiberglass Double Door with or without Glazed Molded Open Sidelites (Inswing/Outswing; XX or OXXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 20468.17 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars. (For Fiber-Classic and Smooth-Star Door and Sidelite panels, this product approval requires the use of "J" part numbers for these doors, which have been stained or painted within six months of installation.)		Installation Instructions FL20468_R5_II (g) Inst 20468.17.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL20468_R5_AE (g) Eval 20468.17.pdf Created by Independent Third Party: Yes

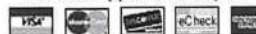
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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

THERMA-TRU[®] DOORS

Fiber-Classic[®] & Smooth-Star[®]

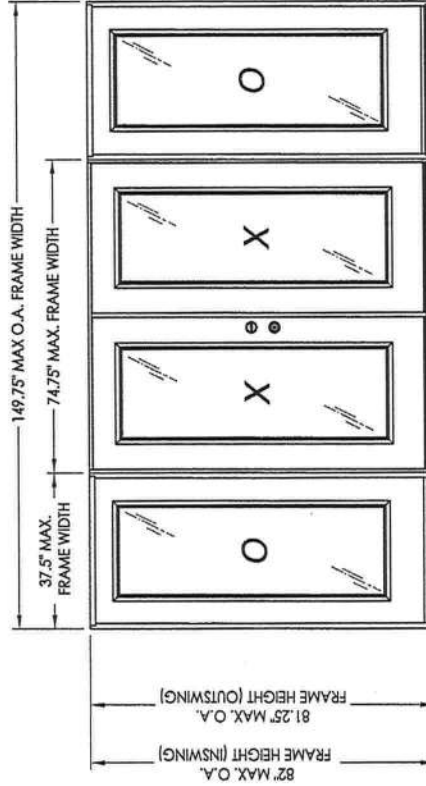
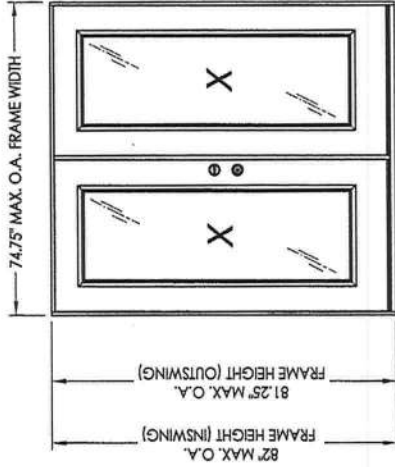
COMPOSITE EDGE GLAZED FIBERGLASS DOUBLE DOOR w/ or w/out SIDELITES INSWING/OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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.
6. Fiber-Classic & Smooth-Star Door & Sidelite panels require the use of "J" part numbers and must be stained or painted within six months of installation.

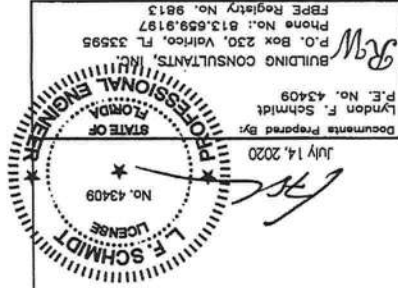
TABLE OF CONTENTS

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



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

See Sheet 4 for Hardware Specifications



Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
July 14, 2020

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR

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

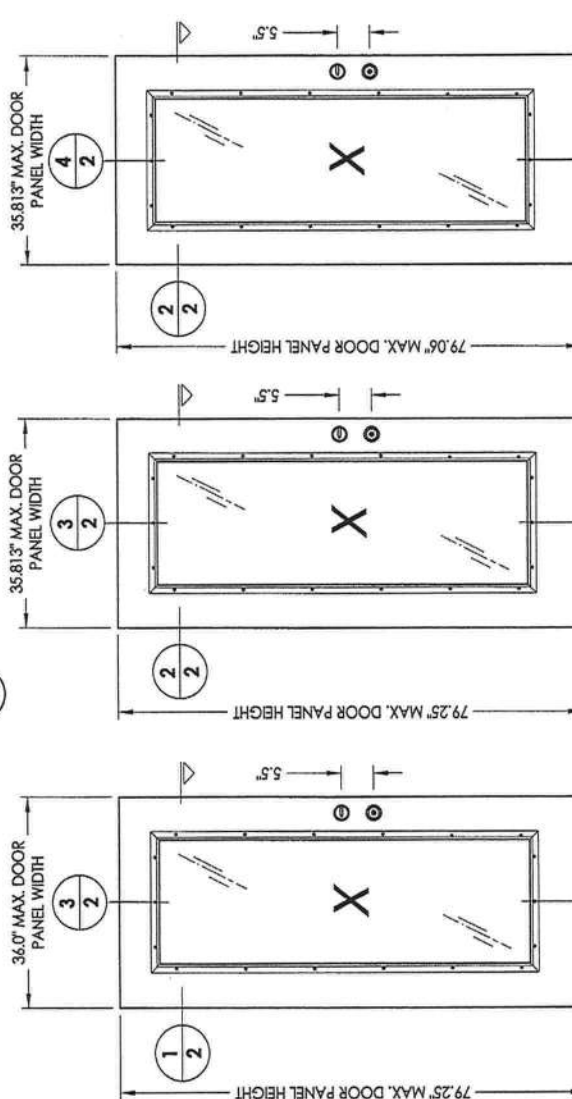
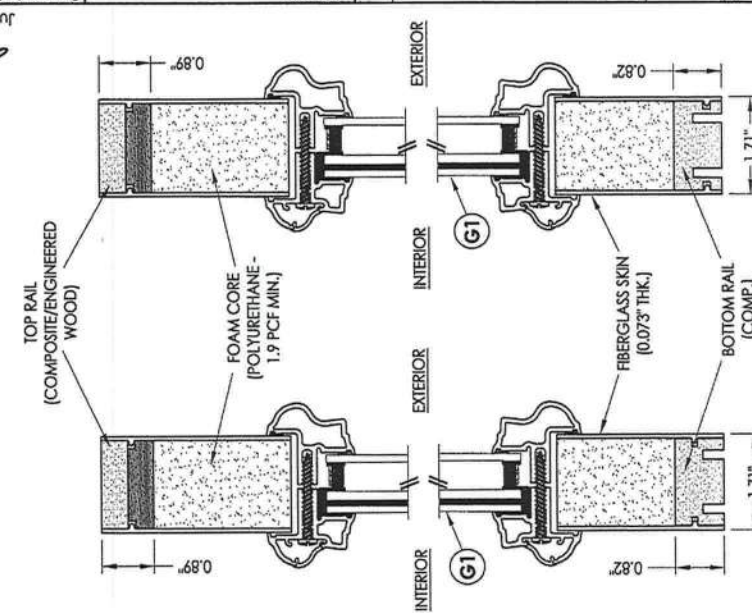
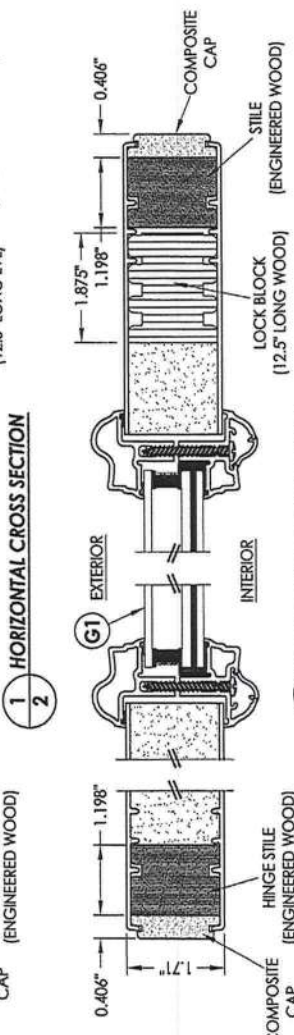
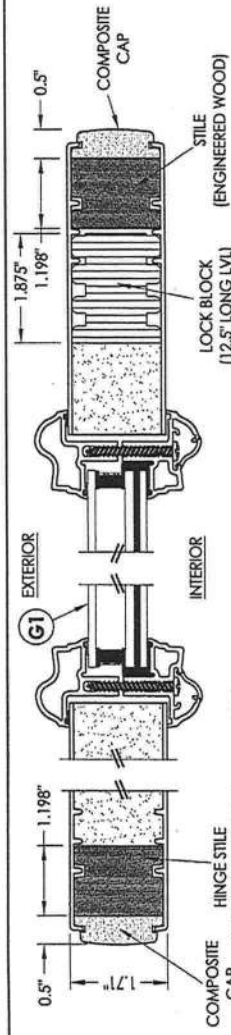
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7	10/08/18
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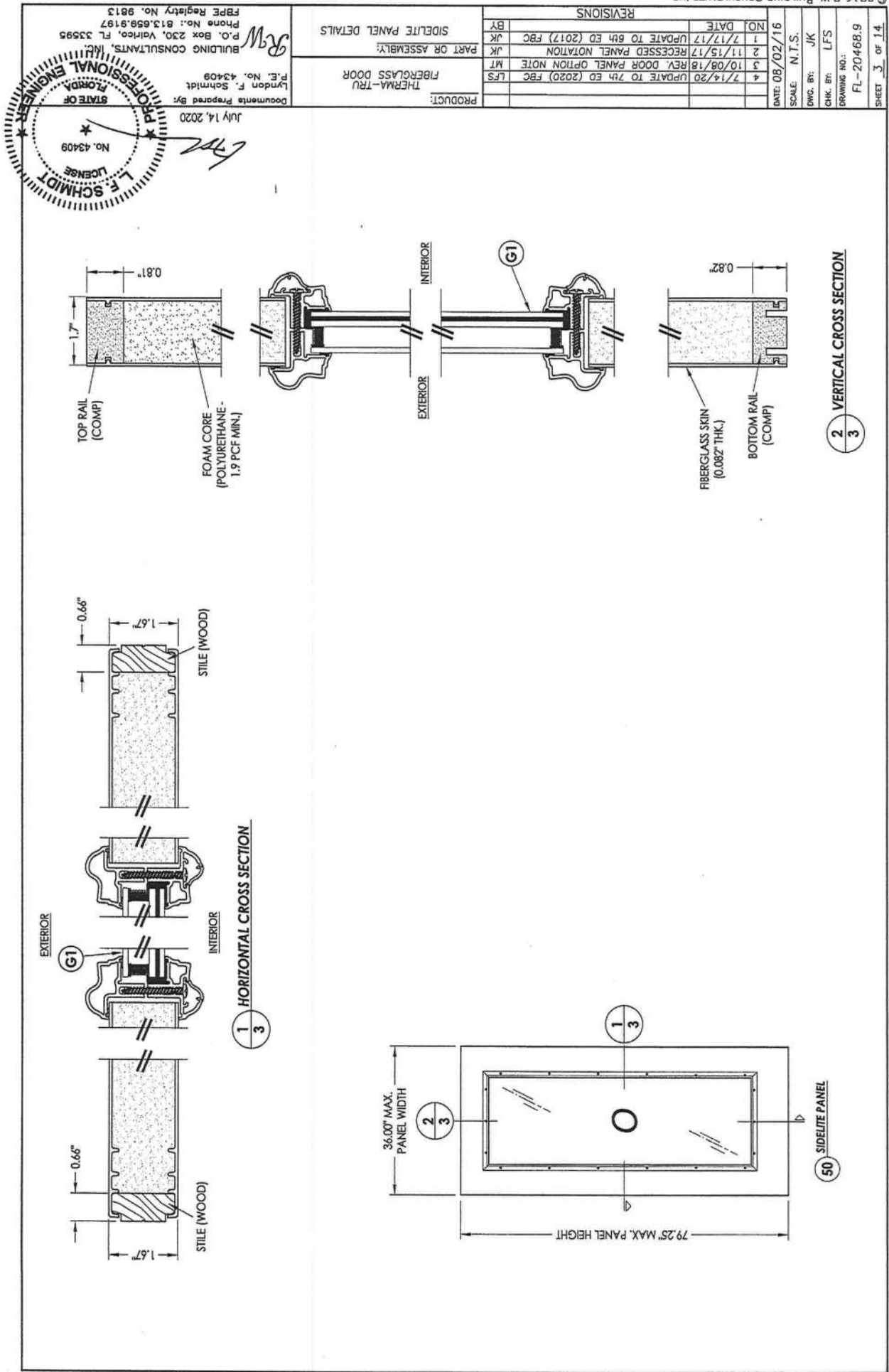
DATE: 08/02/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20468.9
SHEET 1 OF 14

PROFESSIONAL ENGINEER
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July 14, 2020
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 FBPE Registry No. 9813

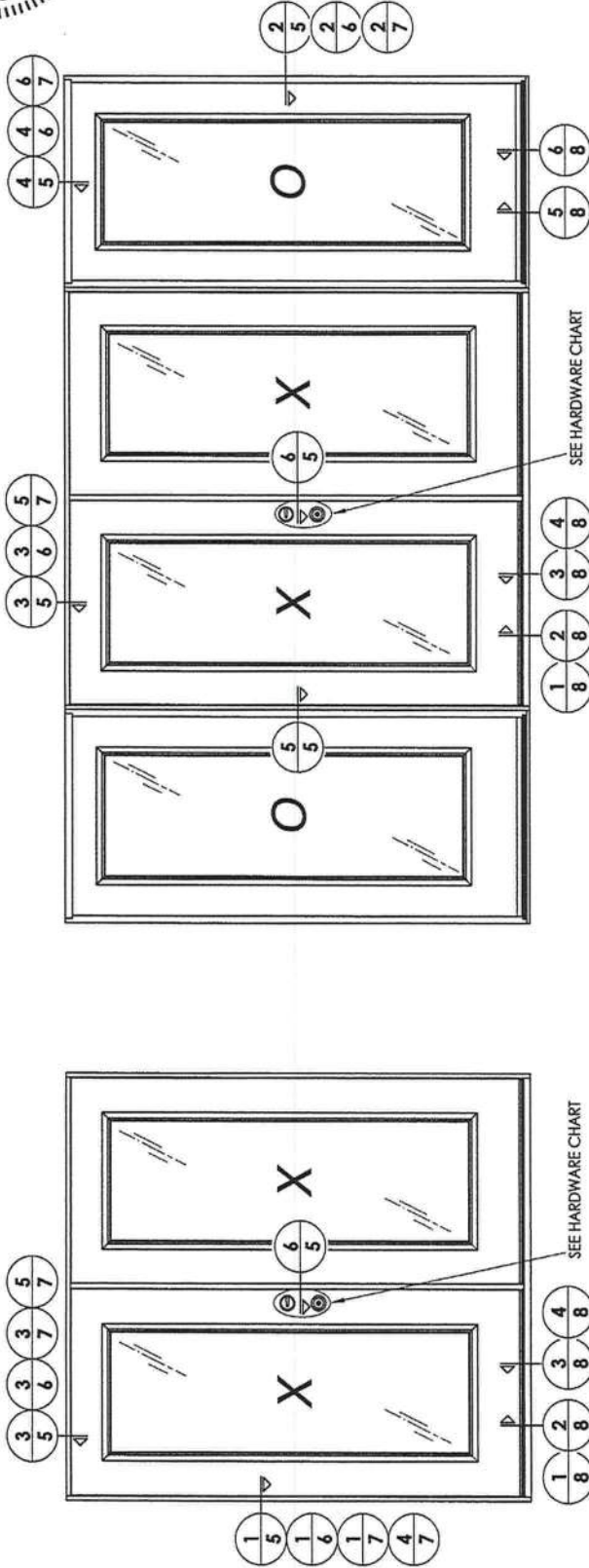
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4	7/14/20
UPDATE TO 6th ED (2017) FBC	
RECESSED PANEL NOTATION	
REV. DOOR PANEL OPTION NOTE	
UPDATE TO 7th ED (2020) FBC	
LFS	
MT	
JK	
JK	
BY	
PART OR ASSEMBLY:	
THERMA-TRU	
FIBERGLASS DOOR	
DOOR PANEL DETAILS	





PRODUCT:	THERMA-TRU FIBERGLASS DOOR	<i>JW</i>	PART OR ASSEMBLY:	ELEVATIONS
Documents Prepared By: Lynden F. Schmidt		P.E. No. 43409	BUILDING CONSULTANTS, INC. P.O. Box 230, Vero Beach, FL 33595 Phone No.: 813.659.9197 FBPE Regularity No. 9813	

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



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July 14, 2020

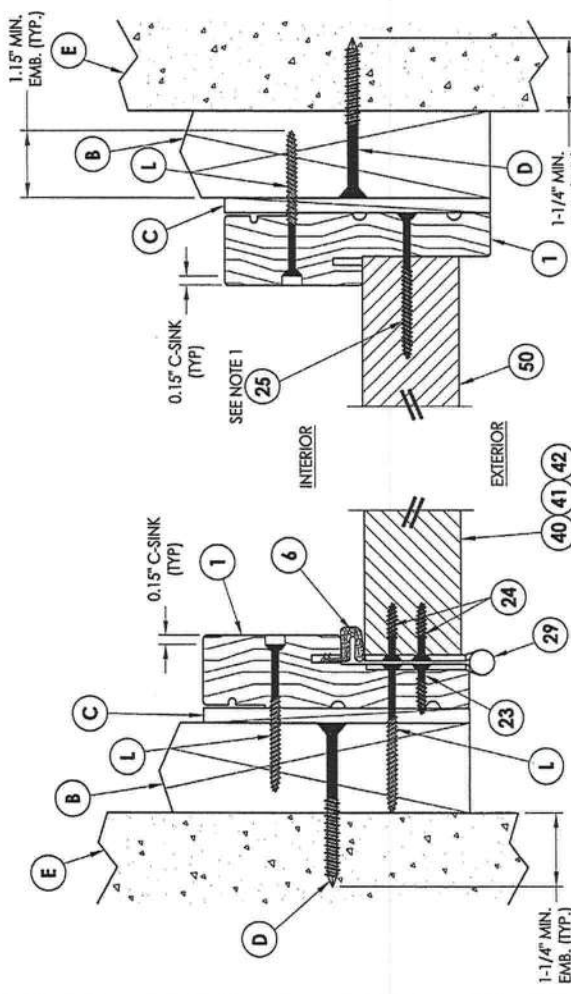
BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813

PRODUCT: THERMA-TRU FIBERGLASS DOOR

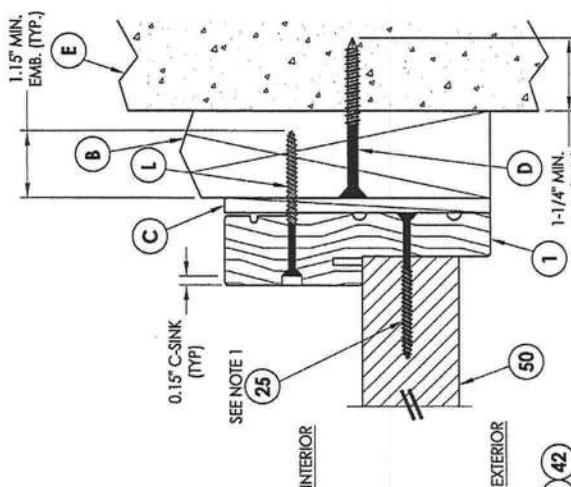
PART OR ASSEMBLY: CROSS SECTIONS (2X BUCK)

NO.	DATE	REVISIONS
1	7/17/17	UPDATE TO 6th ED (2017) FBC
2	11/15/17	RECESSED PANEL NOTATION
3	10/08/18	REV. DOOR PANEL OPTION NOTE
4	7/14/20	UPDATE TO 7th ED (2020) FBC
5		

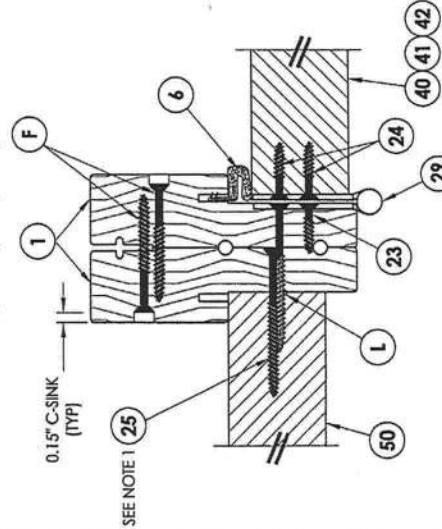
Notes:
 1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



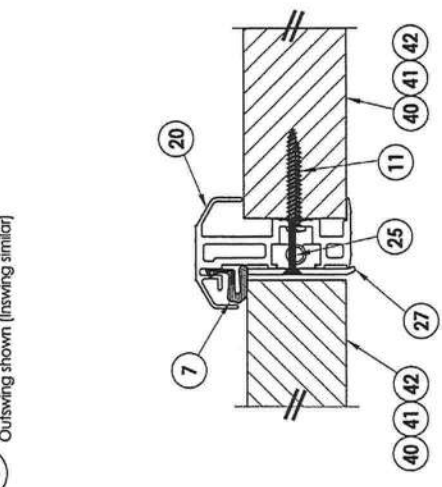
1 HORIZONTAL CROSS SECTION
 Shown w/ 2X Buck
 Outswing shown (inswing similar)



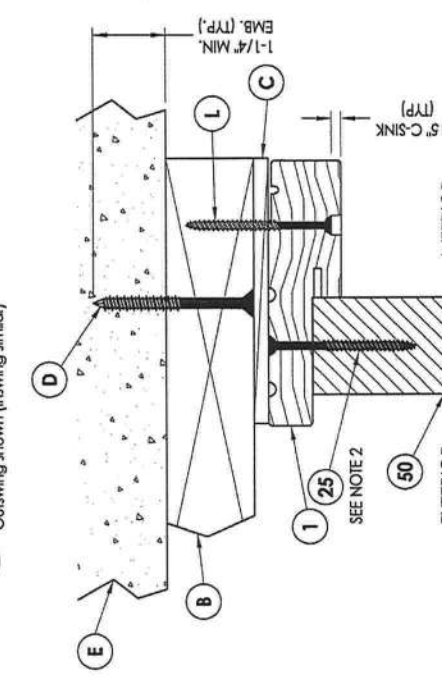
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 Shown w/ 2X Buck
 Outswing shown (inswing similar)



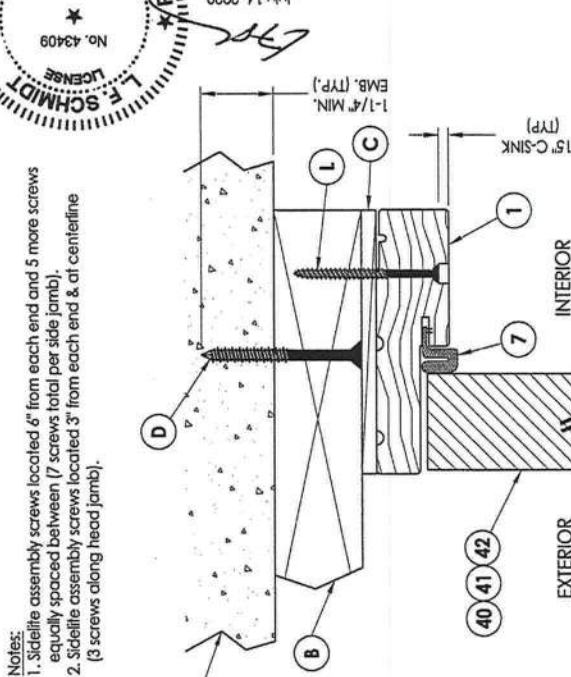
3 HORIZONTAL CROSS SECTION
 Shown w/ 2X Buck
 Outswing shown (inswing similar)



4 HORIZONTAL CROSS SECTION
 Shown w/ 2X Buck
 Outswing shown (inswing similar)

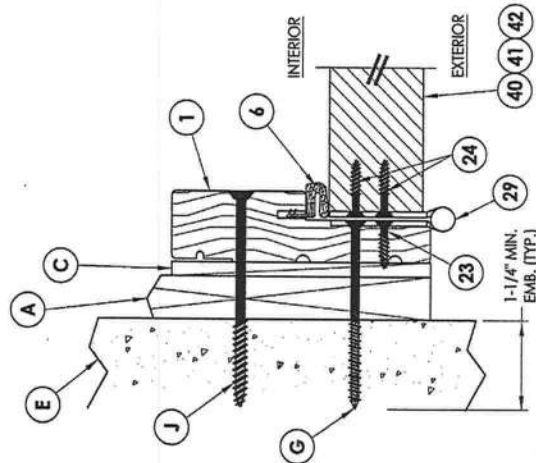


5 VERTICAL CROSS SECTION
 Shown w/ 2X Buck
 Outswing shown (inswing similar)

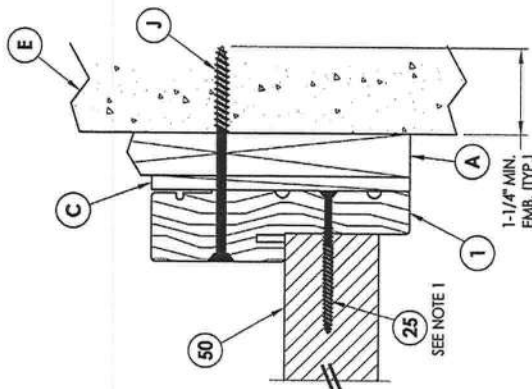


6 VERTICAL CROSS SECTION
 Shown w/ 2X Buck
 Outswing shown (inswing similar)

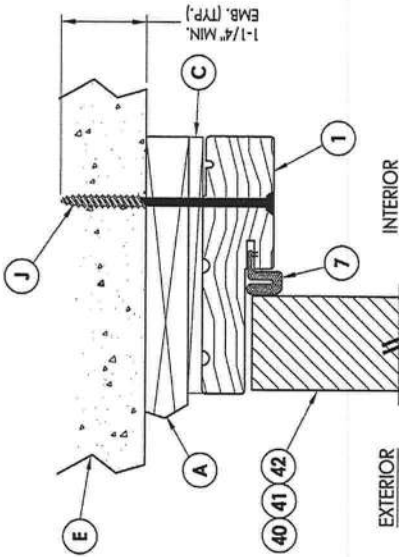
- Notes:
1. Sidelite assembly screws located 6" from each end and 5 more screws equally spaced between (7 screws total per side jamb).
 2. Sidelite assembly screws located 3" from each end & at centerline (3 screws along head jamb).



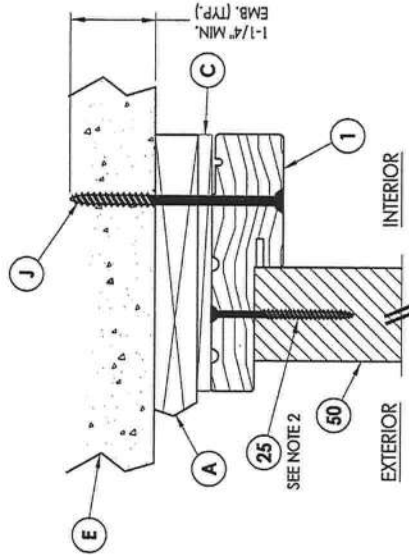
1 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)



2 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)



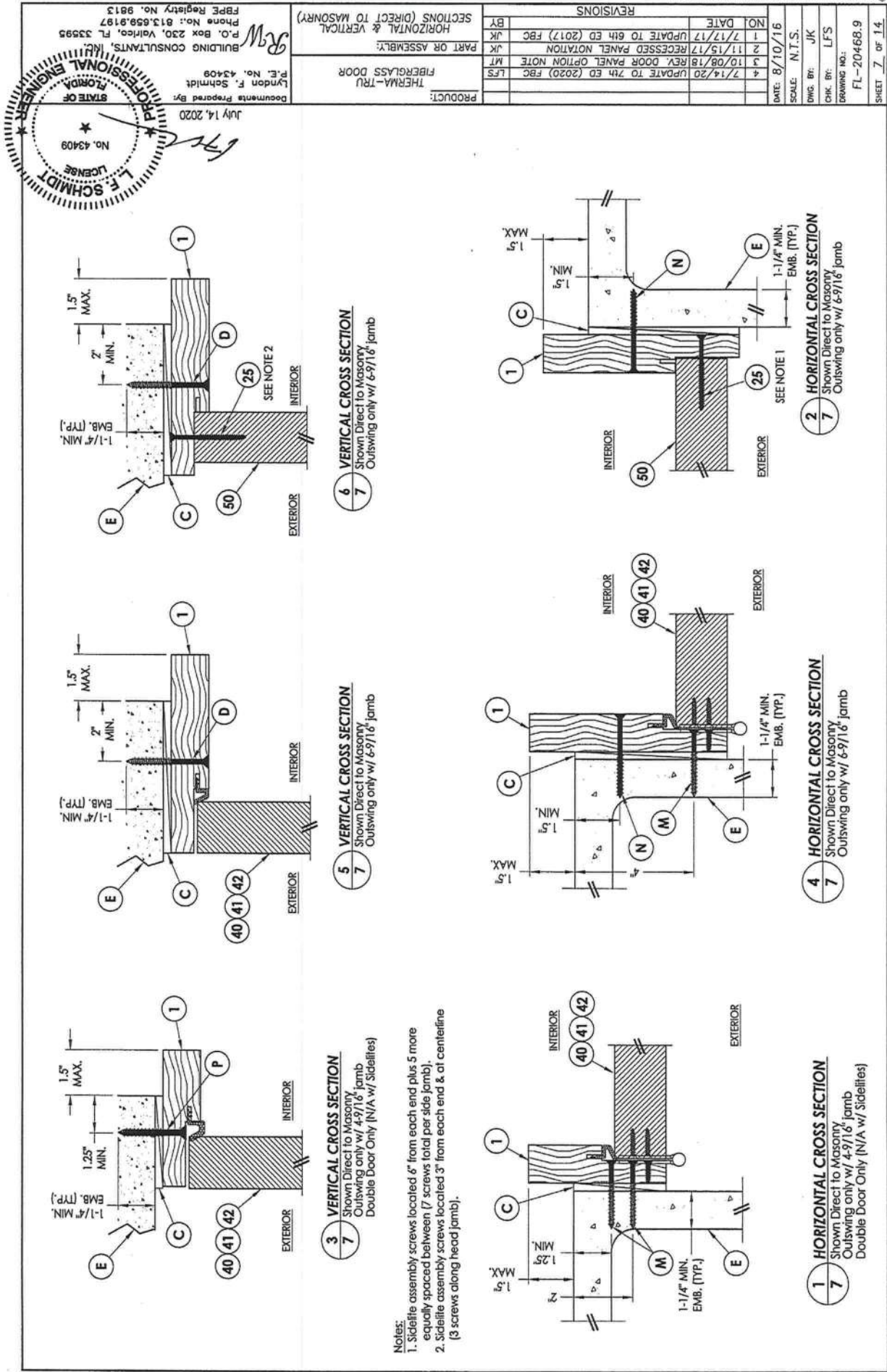
3 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)



4 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (inswing similar)

DATE: 08/02/16	NO. 1	DATE	7/17/17	REVISIONS
SCALE: N.T.S.	2	UPDATE TO 6th ED (2017) FBC	JK	HORIZONTAL & VERTICAL CROSS SECTIONS (1X BUCK)
BY: JK	3	REV. DOOR PANEL OPTION NOTE	MT	PART OR ASSEMBLY: FIBERGLASS DOOR
CHK: LFS	4	UPDATE TO 7th ED (2020) FBC	LFS	PRODUCT: THERMA-TRU
DRAWING NO.: FL-20468.9				
SHEET 5 of 14				

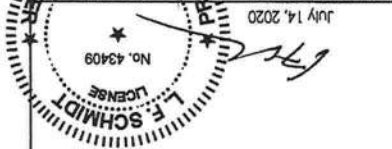
Documents Prepared By: Lyndon F. Schmidt
P.E. No. 43409
July 14, 2020
L.F. SCHMIDT
No. 43409
STATE OF FLORIDA
PROFESSIONAL ENGINEER
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vero Beach, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



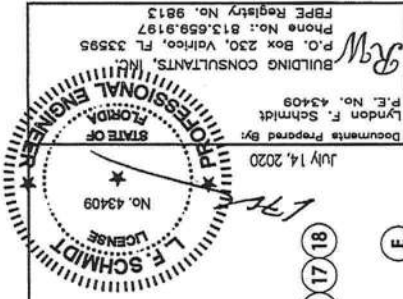
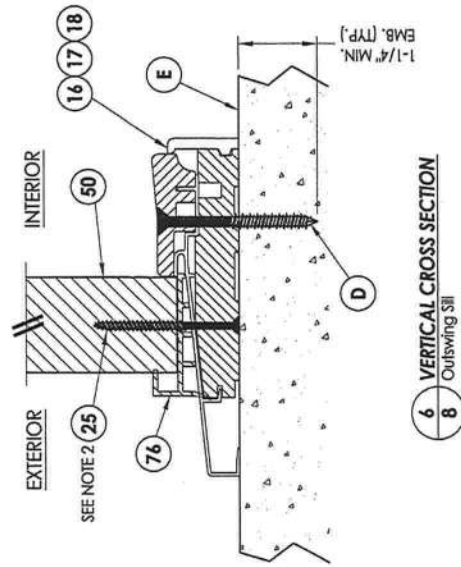
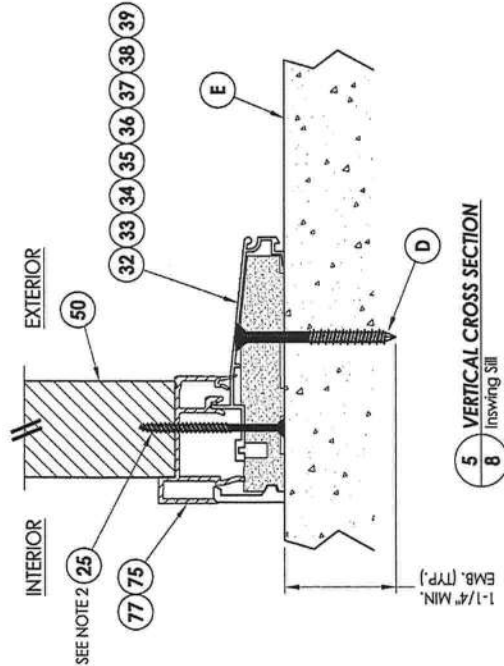
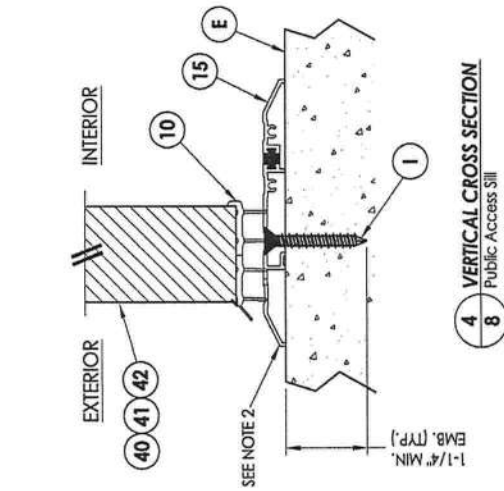
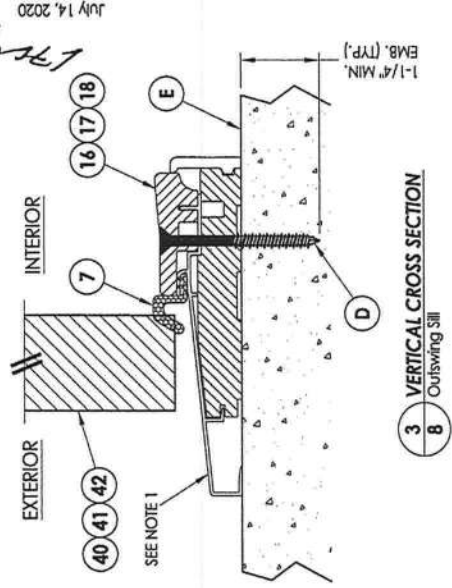
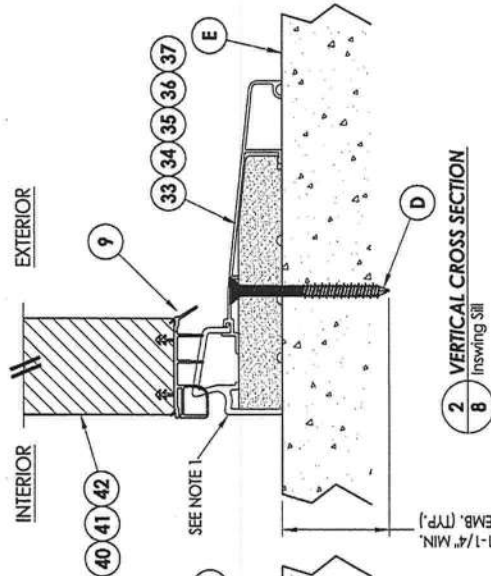
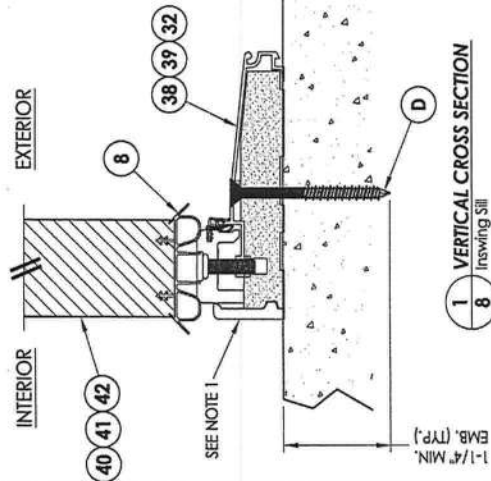
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1	7/17/17	UPDATE TO 6th ED (2017) FBC
2	11/15/17	RECESSED PANEL NOTATION
3	10/08/18	REV. DOOR PANEL OPTION NOTE
4	7/14/20	UPDATE TO 7th ED (2020) FBC
5	10/08/18	REV. DOOR PANEL OPTION NOTE
6	11/15/17	RECESSED PANEL NOTATION
7	7/17/17	UPDATE TO 6th ED (2017) FBC

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

Documents Prepared By:
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- Notes:
- Sill item #s 17, 18, 32, 34, 35, 36, 37, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" phs screws at each end.
 - Sill item #s 16 & 33 are attached to jambs w/ (2) #8 X 2-1/2" phs screws at each end.
 - Sill item #15 is attached to jambs utilizing (2) #10 X 2" phs screws at each end.
 - Sidelite assembly screws located 3" from each end & at centerline (3 screws along sill).



July 14, 2020

Documents Prepared By:

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Phone No.: 813.659.9197

FBPE Registry No. 9813

PRODUCT: THERMA-TRU
FIBERGLASS DOOR

PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)

NO.	DATE	REVISIONS
1	7/17/17	UPDATE TO 6th ED (2017) FBC
2	11/15/17	RECESSED PANEL NOTATION
3	10/08/18	REV. DOOR PANEL OPTION NOTE
4	7/14/20	UPDATE TO 7th ED (2020) FBC

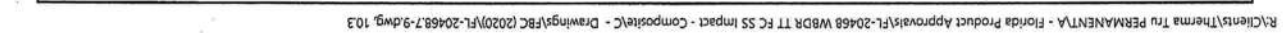
DATE: 08/02/16
SCALE: N.T.S.
CHK. BY: LFS
DRAWING NO.: FL-20468.9
SHEET 8 OF 14

PRODUCT:	TERMA-TRU FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK ANCHORING

PROFESSIONAL ENGINEER
STATE OF
FLORIDA



A circular professional engineer seal for the State of Florida. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "STATE OF FLORIDA" at the bottom, separated by two stars. Inside this ring, the name "L.F. SCHMIDT" is written in a larger font, with "LICENSE" below it. At the bottom of the inner circle is the license number "No. 43409". A star is positioned to the left of the license number. A horizontal line bisects the seal, and a diagonal line extends from the center towards the bottom right.



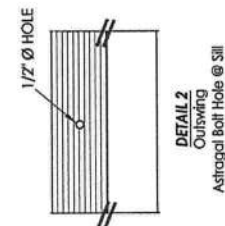
BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBP# Registry No. 9813

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

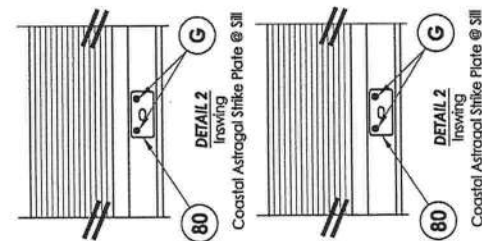
July 14, 2020

L.F. SCHMIDT
 LICENSE
 No. 43409
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

LATCH & DEADBOLT STRIKE DETAILS



Astragal Bolt Hole @ Sill

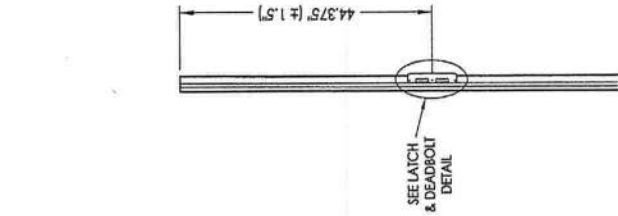
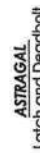


DETAIL 2
Inswing

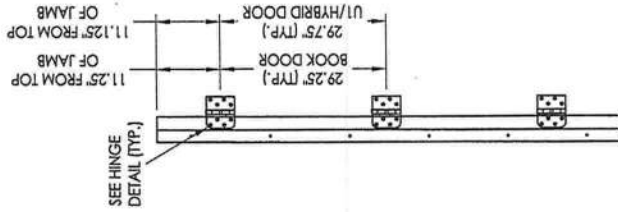
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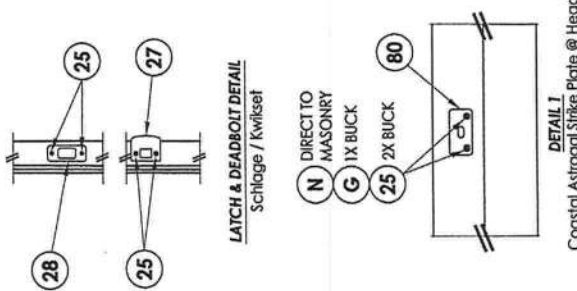
Coastal Astragal Strike Plate @ Sill



HINGE JAMB



ASTRAGAL
Latch and Deadbolt



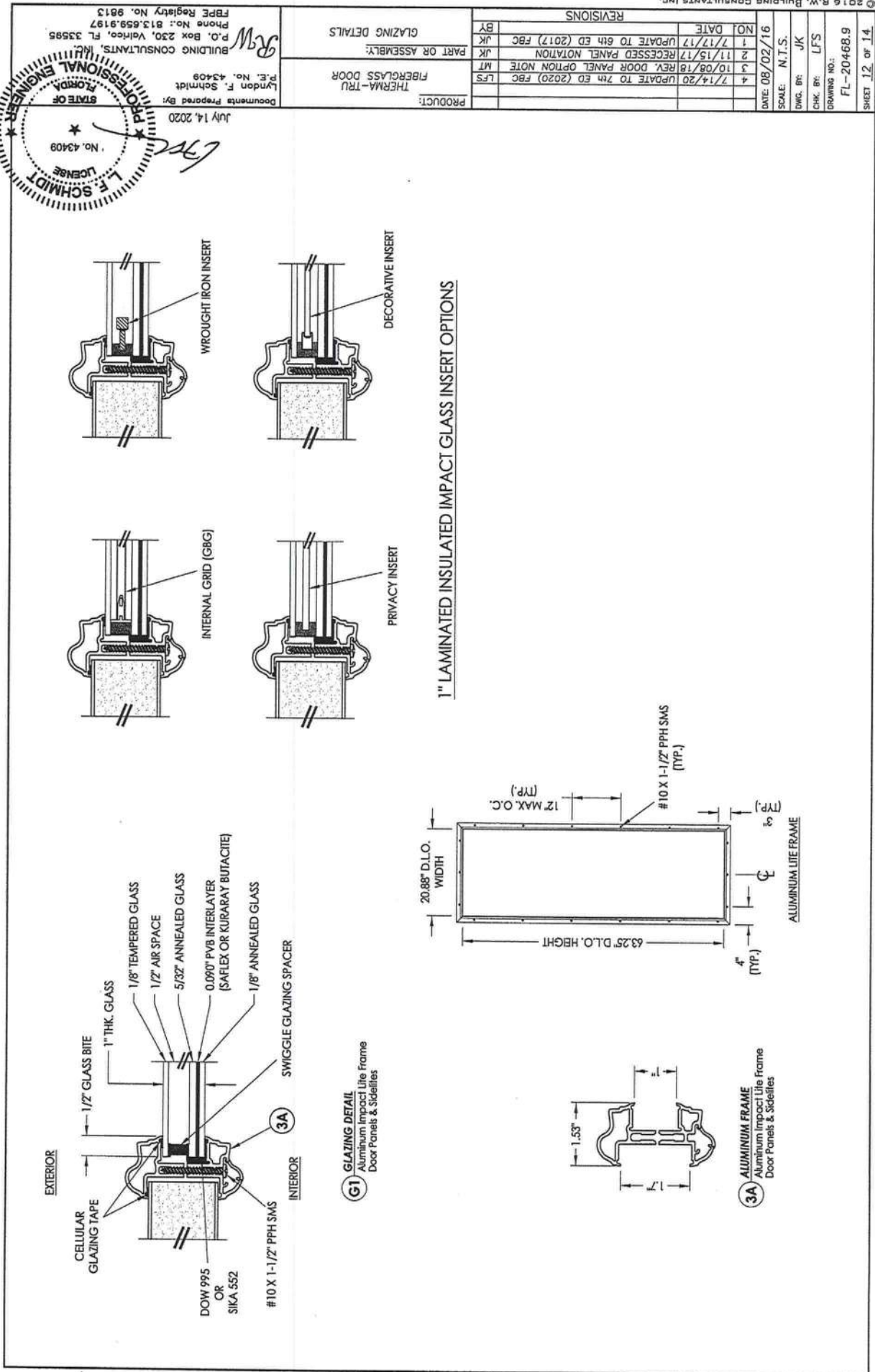
DETAIL 1

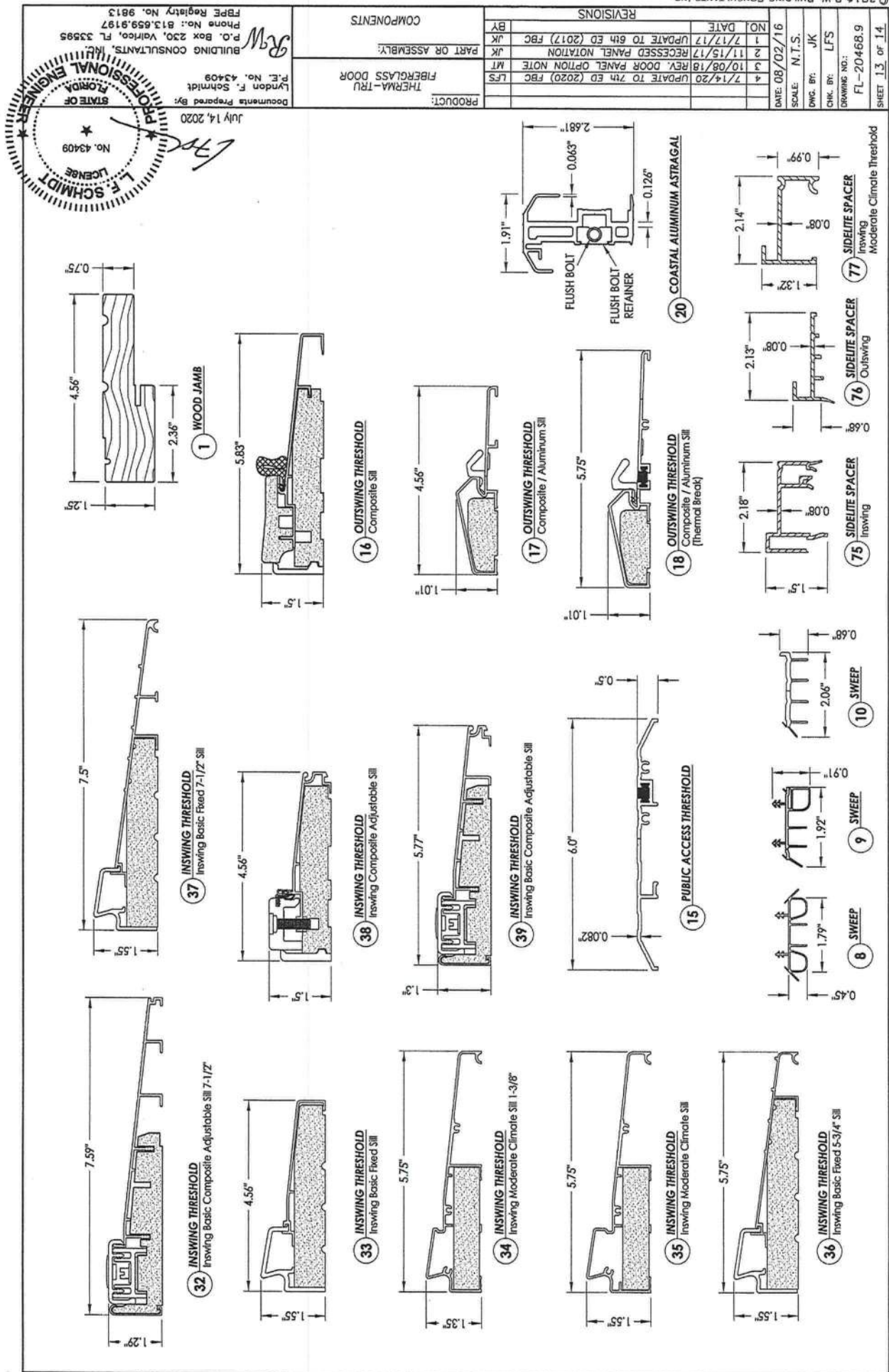
Schläge / Kwikset

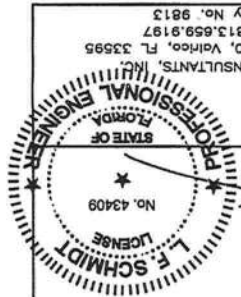
N DIRECT TO
MASONRY

G 1X BUCK

25 2X BUCK







Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
BILL OF MATERIALS

REVISIONS	
NO.	DATE
1	7/17/17
2	7/17/17
3	10/08/18
4	7/14/20
UPDATE TO 6th ED (2017) FBC	
RECESSSED PANEL NOTATION	
REV. DOOR PANEL OPTION NOTE	
UPDATE TO 7th ED (2020) FBC	
BY	
JK	

DATE: 08/02/16
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-20468.9
SHEET 14 of 14

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 ELCO 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
F	#10 X 2" PFH WOOD SCREW	STEEL	32	INSWING THRESHOLD	ALUM/COMP
G	3/16" X 3-1/4" ITW CONCRETE SCREW	STEEL	33	INSWING THRESHOLD	ALUM/COMP
I	1/4" X 1-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	34	INSWING THRESHOLD	ALUM/COMP
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL	35	INSWING THRESHOLD	ALUM/COMP
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL	36	INSWING THRESHOLD	ALUM/COMP
M	3/16" X 2-1/4" ITW CONCRETE SCREW	STEEL	37	INSWING THRESHOLD	ALUM/COMP
N	3/16" X 2-3/4" PFH ITW CONCRETE SCREW	STEEL	38	INSWING THRESHOLD	ALUM/COMP
P	1/4" X 2-3/4" PFH ELCO CONCRETE SCREW	STEEL	39	INSWING THRESHOLD	ALUM/COMP
1	JAMB (FINGER JOINT PINE)	WOOD	40	DOOR PANEL (BOOK)	-
6	WEATHERSTRIP (MEDIUM REACH)	FOAM	41	DOOR PANEL (HYBRID)	-
7	WEATHERSTRIP (LONG REACH)	FOAM	42	DOOR PANEL (UI)	-
8	SWEEP	VINYL	50	SIDELITE	-
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
11	#10 X 1-3/4" PFH WOOD SCREW	STEEL	77	SIDELITE SPACER (INSWING) - MODERATE CLIMATE SILL	PVC
15	PUBLIC ACCESS THRESHOLD	ALUM	78	MULTIPOINT LOCK STRIKE PLATE @ HEAD	STEEL
16	OUTSWING THRESHOLD	ALUM/COMP	79	MULTIPOINT LOCK STRIKE PLATE @ SILL	STEEL
17	OUTSWING THRESHOLD	ALUM/COMP	80	COASTAL ASTRAGAL STRIKE PLATE	STEEL
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:
- 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"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	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.



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

OFFICE OF THE
SECRETARY

FL #	FL1435-R26												
Application Type	Revision												
Code Version	2020												
Application Status	Approved												
Comments													
Archived	☐												
Product Manufacturer	PGT Industries												
Address/Phone/Email	1070 Technology Drive North Venice, FL 34275 (941) 486-0100 Ext 21140 jrosowski@pgtindustries.com												
Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com												
Technical Representative	Lynn Miller, P.E.												
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com												
Quality Assurance Representative													
Address/Phone/Email													
Category	Windows												
Subcategory	Single Hung												
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	A. Lynn Miller, P.E.												
Florida License	PE-58705												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	12/31/2023												
Validated By	Steven M. Urlich, PE ☒ Validation Checklist - Hardcopy Received												
Certificate of Independence	FL1435_R26_COI_Cert of Independence.pdf												
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA 101/IS2/A440</td> <td>2011</td> </tr> <tr> <td>ASTM E1886</td> <td>2013</td> </tr> <tr> <td>ASTM E1996</td> <td>2012</td> </tr> <tr> <td>ASTM E283</td> <td>2004</td> </tr> <tr> <td>ASTM E330</td> <td>2002</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	AAMA/WDMA/CSA 101/IS2/A440	2011	ASTM E1886	2013	ASTM E1996	2012	ASTM E283	2004	ASTM E330	2002
<u>Standard</u>	<u>Year</u>												
AAMA/WDMA/CSA 101/IS2/A440	2011												
ASTM E1886	2013												
ASTM E1996	2012												
ASTM E283	2004												
ASTM E330	2002												
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect												

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

08/10/2022

Date Validated

08/14/2022

Date Pending FBC Approval

08/23/2022

Date Approved

10/11/2022

Summary of Products

FL #	Model, Number or Name	Description
1435.1	SH-5400	EnergyVue Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL1435 R26 II SH5400FPA-NI.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL1435 R26 AE Eng Eval - SH5400.pdf Created by Independent Third Party: No
1435.2	SH-5500	WinGuard Vinyl Single Hung Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL1435 R26 II SH5500FPA-LM.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL1435 R26 AE Eng Eval - SH5500.pdf Created by Independent Third Party: No

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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

SERIES SH5500V IMPACT RESISTANT, VINYL SINGLE HUNG WINDOW

FLORIDA PRODUCT APPROVAL #1435

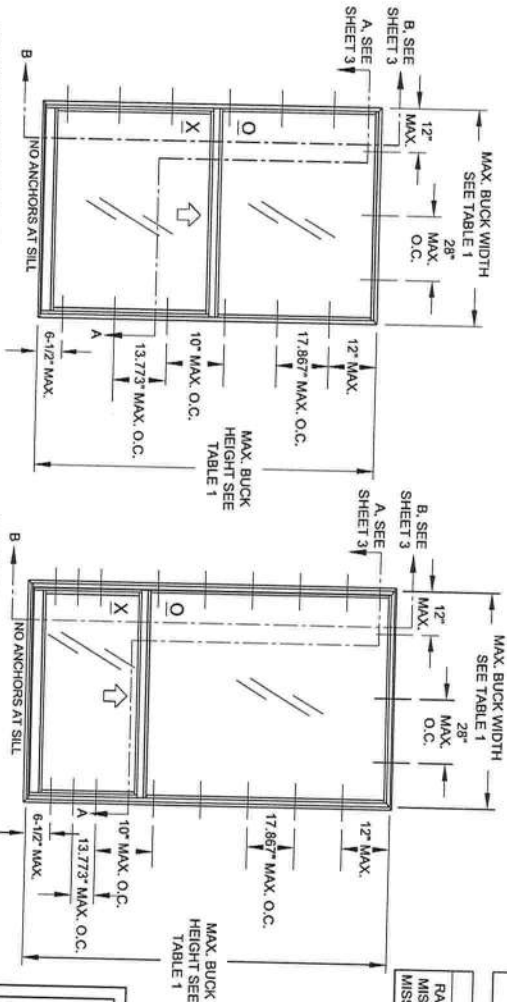
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLES 2 & 3. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

TABLE 1:

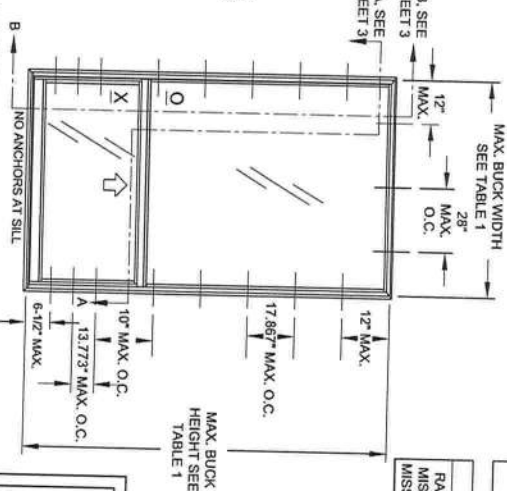
Window Buck Size	Configuration	Reinf. Level	Design Pressure (+) psf	Design Pressure (-) psf	Certification (CAR) Number
52-1/8"	84"	Equal-Lite			
52-1/8"	84"	Std. Proview	R1	50.0	50.0
52-1/8"	91-13/16"	Custom Sash			LC-PG50
52-1/8"	84"	Equal-Lite			
52-1/8"	84"	Std. Proview	R2	65.0	70.0
52-1/8"	91-13/16"	Custom Sash			LC-PG65

MIN. SASH HEIGHT = WINDOW BUCK HEIGHT - 50.136 (APPLIES TO ANY HEIGHT 91.78" OR LESS).

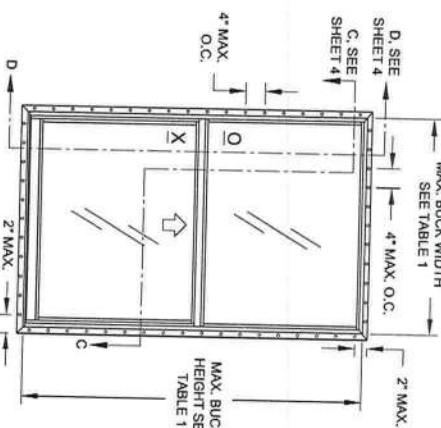
ELEVATION FOR TYP. EQUAL LEG FRAME,
EQUAL-LITE CONFIGURATION



ELEVATION FOR TYP. FLANGE FRAME,
PROVIEW/MORIEL CONFIGURATION
(COTTAGE SIMILAR)



ELEVATION FOR TYP. FIN OR J-CHANNEL FRAME,
EQUAL-LITE CONFIGURATION
(SMALLER ANCHOR DIMENSIONS FOR OTHER CONFIGURATIONS)



SHAPES MAY BE USED BY
INSCRIBING THE SHAPE IN
A BLOCK AND OBTAINING
DESIGN PRESSURES FOR
THAT BLOCK SIZE FROM
THE TABLE ON THIS SHEET

DESIGN PRESSURE RATINGS
SEE TABLES 2 - 6

IMPACT RATING
RATED FOR LARGE & SMALL
MISSILE IMPACT RESISTANCE
MISSILE LEVEL D, WINDZONE 4

MAX. BUCK
HEIGHT SEE
TABLE 1

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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(941) 480-1600
REGISTRATION #29296
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1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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VINYL SINGLE HUNG WINDOW (LM)
ELEVATION & GENERAL NOTES
SH5500V 1 OF 4
SH5500FPA-LM

ANTHONY LYNN MILLER
LICENSE
No. 68705
06/12/22
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E. # 58705

UPDATED CERT. METHOD
08/01/22

TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
Max. DP of 50.0 psf	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
3/16" Ultracon	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
Max. DP of 50.0 psf	Concrete (min. 3,000 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
3/16" Ultracon+	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
Max. DP of 50.0 psf	Concrete (min. 3 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Ultracon	P.T. Southern Pine (SG=0.55)	1"	1-3/4"
	Concrete (min. 2,85 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
1/4" Ultracon+	P.T. Southern Pine (SG=0.55)	1"	1-3/4"
	Concrete (min. 3 ksi)	1-3/16"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Crete-Flex (410 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3,275 ksi)	2-1/2"	1-1/4"
	Ungrouted CMU, (ASTM C-90)	1-1/2"	1-3/8"
1/4" Aggre-Gator (18-8 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3,275 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2"	1-1/4"

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

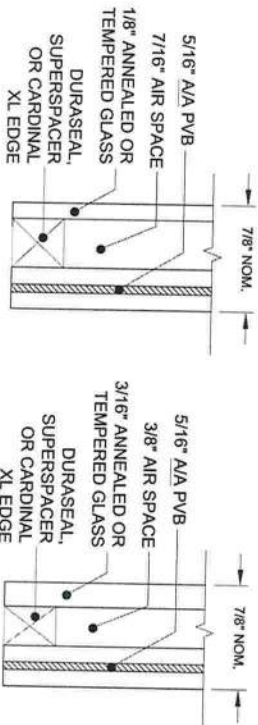
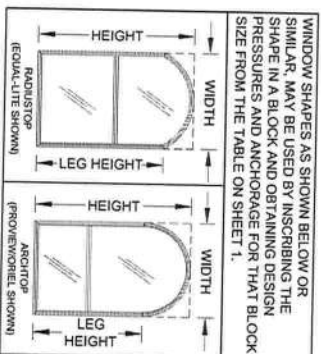
Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .131" Common Nail	P.T. Southern Pine (SG=0.55)	9/16"	2-7/16"
Max. DP of 50.0	P.T. Southern Pine (SG=0.55)	9/16"	2-7/16"
2-1/2" x .131" Ring-Shank Nail	P.T. Southern Pine (SG=0.55)	9/16"	2-7/16"
2-1/2" x .145" Roofing Nail	P.T. Southern Pine (SG=0.55)	3/4"	2-7/16"
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	Steel, A36	3/8"	0.050"

ANCHOR NOTES FOR TABLES 2 & 3:

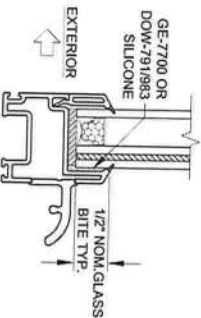
- 1) "UNROUTED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.
- 2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.
- 3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

TABLE 4: REINFORCEMENT TYPES

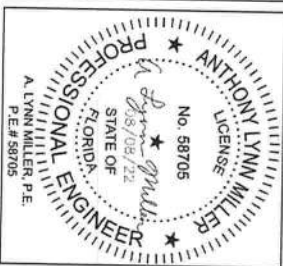
Level	Reinforcement		
	Upper Lite Bottom Rail	Top Rail	Lower Lite Bottom Rail Side Rails
R1	B	A	A
R2	C	A	A



GLASS TYPES

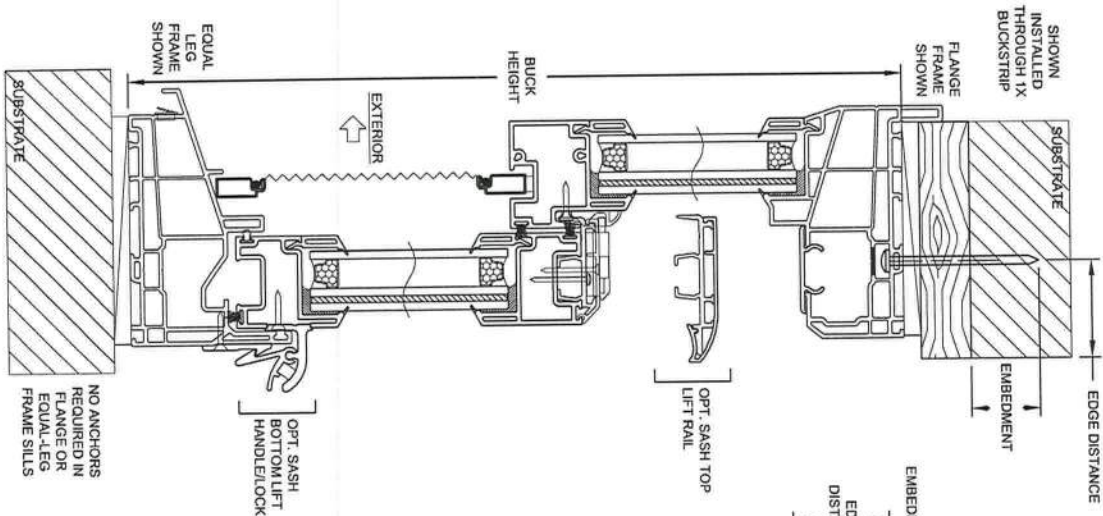


TYP. GLAZING DETAIL
PVB INTERLAYER MANUFACTURED BY KURARAY AMERICA, INC.

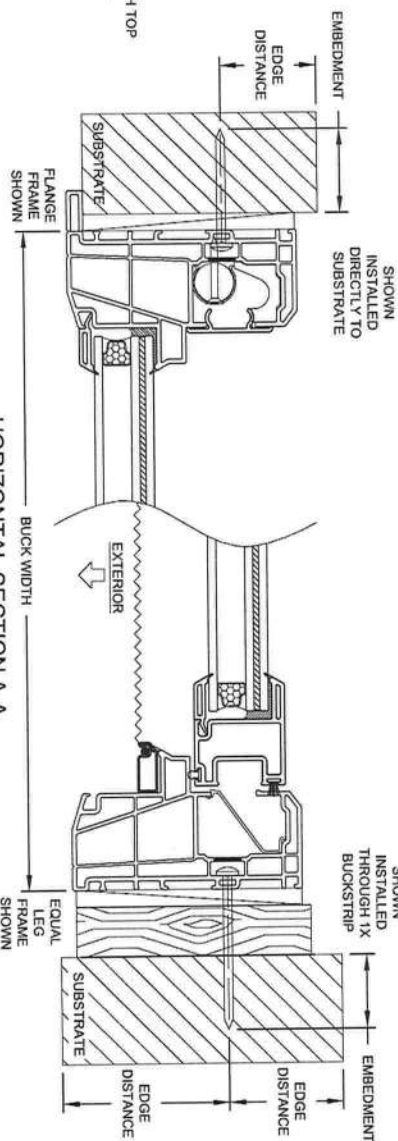


		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2022 PGT, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
VINYL SINGLE HUNG WINDOW (LM)		Date: 06/12/11	
ANCHOR & GLAZING DETAILS		Drawn By: JENS ROSOWSKI	
SH5500V	2 OF 4	SH5500FPA-LM	Date: 08/01/22

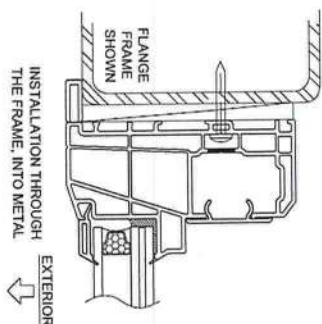
UPDATED CERT. METHOD



VERTICAL SECTION B-B

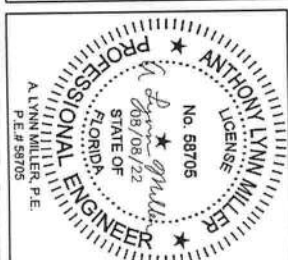


HORIZONTAL SECTION A-A



INSTALLATION NOTES:

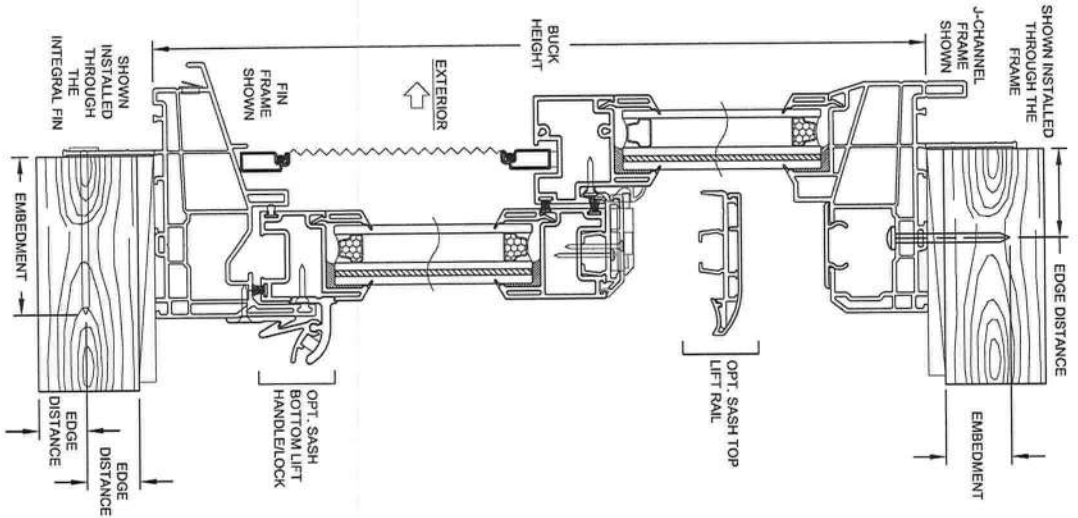
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.



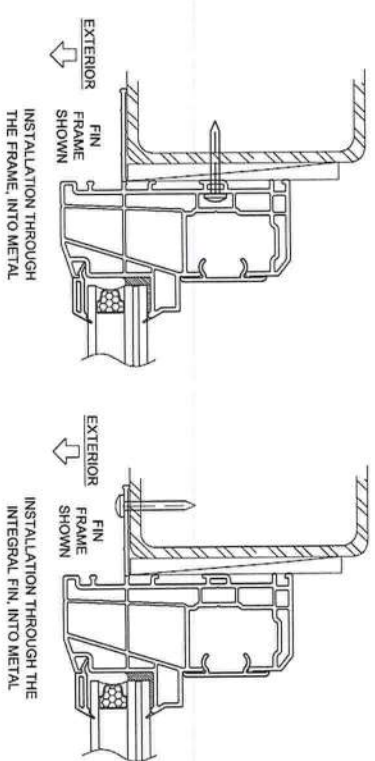
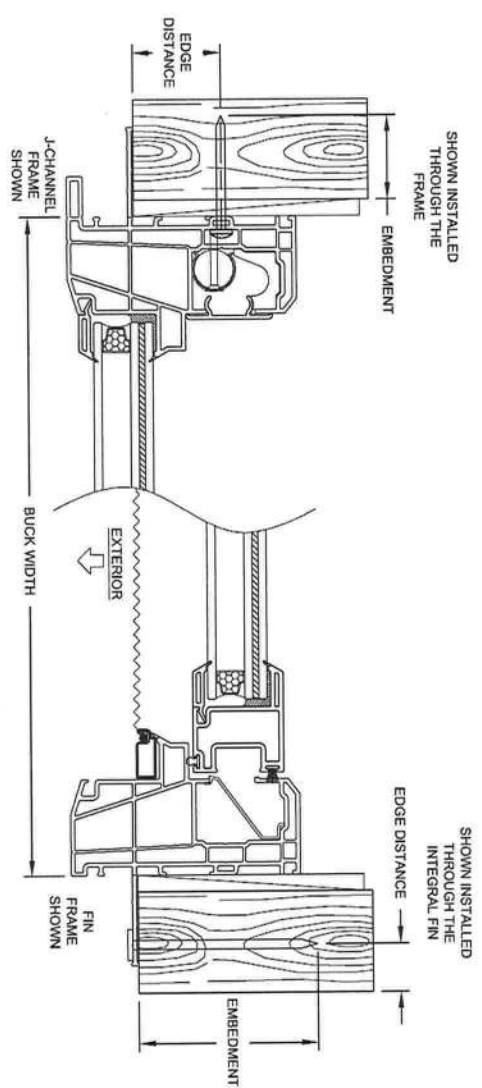
		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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VINYL SINGLE HUNG WINDOW (LM)		06/12/11	
FLANGE INSTALLATION		JENS ROSOWSKI	
SH5500V	3 OF 4	SH5500FPA-LM	

UPDATED CERT. METHOD	08/01/22	B
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VERTICAL SECTION D-D

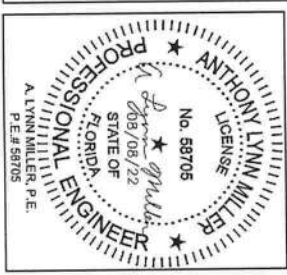


HORIZONTAL SECTION C-C



INSTALLATION NOTES:

- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
- 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
- 3) MAX. SHIM THICKNESS TO BE 1/4".
- 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
- 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.



		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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VINYL SINGLE HUNG WINDOW (LM)		06/12/11	
FIN INSTALLATION		JENS ROSOWSKI	
SH5500V	4 OF 4	SH5500FPA-LM	

Rev.	08/01/22	B
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Business & Professional Regulation



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Product Approval
USER: Public User

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FL #	FL13265-R6	
Application Type	Revision	
Code Version	2020	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	James Hardie Building Products	
Address/Phone/Email	10901 Elm Ave Fontana, CA 92337 (909) 681-7872 alex.haldeman@jameshardie.com	
Authorized Signature	Rathisha Sabaratnam rathisha.sabaratnam@jhresearchusa.com	
Technical Representative	Rathisha Sabaratnam	
Address/Phone/Email	10901 Elm Avenue Fontana, CA 90631 (909) 641-0498 rathisha.sabaratnam@jhresearchusa.com	
Quality Assurance Representative	Rathisha Sabaratnam	
Address/Phone/Email	10901 Elm Avenue Fontana, CA 92337 (909) 614-0498 rathisha.sabaratnam@jhresearchusa.com	
Category	Panel Walls	
Subcategory	Soffits	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	V. Andrew Tan	
Florida License	PE-81662	
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity	
Quality Assurance Contract Expiration Date	12/31/2023	
Validated By	John Southard, P.E. ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL13265 R6 COI 2001-10 Letter of Independence.pdf	
Referenced Standard and Year (of Standard)	Standard	Year
	ASTM C1186	2012
	ASTM E330	2002
Equivalence of Product Standards Certified By		

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

02/11/2021

Date Validated

02/16/2021

Date Pending FBC Approval

02/23/2021

Date Approved

04/13/2021

Summary of Products

FL #	Model, Number or Name	Description
13265.1	HardieSoffit Panels	HardieSoffit Panels, Cemsoffit Panels; fiber-cement soffit panels
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: For use inside a HVHZ install in accordance with Miami Dade County Florida NOA 20-0730.06; for use outside a HVHZ refer to manufacturer's installation instructions.		Installation Instructions FL13265_R6_II_2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf FL13265_R6_II_ER_2101-2 HardieSoffit.pdf FL13265_R6_II_HardieSoffit-Install-Instr.pdf Verified By: V. Andrew Tan 81662 Created by Independent Third Party: No Evaluation Reports FL13265_R6_AE_2001-14.3 NOA Hardie Plank-Panel-Soffit.pdf FL13265_R6_AE_ER_2101-2 HardieSoffit.pdf Created by Independent Third Party: Yes
13265.2	HardieSoffit VentedPlus Panels	HardieSoffit VentedPlus Panels; fiber-cement soffit panels
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other:		Installation Instructions FL13265_R6_II_HardieSoffit-Install-Instr.pdf Verified By: V. Andrew Tan 81662 Created by Independent Third Party: No Evaluation Reports FL13265_R6_AE_CAE_ER_2001-13.2 Soffit VentedPlus.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



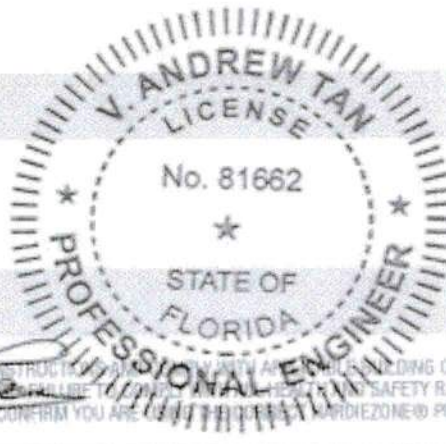
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Safe

securityMETRICS

Florida Product Approval

HardieSoffit® Panel

- For use inside HVHZ:
 - HardieSoffit Panel fastener types, fastening schedule, and installation shall be in accordance with the Miami-Dade County Florida NOA 20-0730.06. Consult the HardieSoffit product installation instructions on the following pages for all other installation requirements.
- For use outside of HVHZ,
 - HardieSoffit Panel fastener types, fastening schedule, and installation shall be in accordance with Engineering Evaluation Report ER 2001-13.1 or 2001-13.2. Consult the HardieSoffit product installation instructions on the following pages for all other installation requirements.



HardieSoffit® Panels

EFFECTIVE APRIL 2019

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS MAY VIOLATE APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT THE WEATHER RESISTANCE OF THE BUILDING. ALWAYS FOLLOW ALL APPLICABLE SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT. MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product.



CUTTING INSTRUCTIONS

OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- Cut using one of the following methods:
 - Best:** Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
 - Better:** Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
 - Good:** Circular saw equipped with a HardieBlade saw blade.

INDOORS

- DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.
- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
 - For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
 - For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
 - Go to jameshardiepros.com for additional cutting and dust control recommendations.

IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

GENERAL REQUIREMENTS:

- HardieSoffit® panels may be installed as a soffit or ceiling over either wood or steel 20 gauge (33 mils) minimum to 16 gauge (54 mils) framing complying with the local building code. See general fastening requirements. Install soffits to nominal 2 x 4 framing members spaced a maximum of 24 inches on center (fig.1), with the long dimension perpendicular to the rafter or joist framing.
- All edges must be supported by framing. (figs. 3 & 4)
- Install water barriers and air barriers as required by local building codes. James Hardie will assume no responsibility for moisture infiltration.
- Ensure gutters have end caps. Maintain a minimum 1 in gap between end caps and siding & trim (fig.5).
- Install kickout flashing at roof-wall junctions. (fig.6.)
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

INSTALLATION:

- HardieSoffit panels must be fastened to a solid, nailable substrate such as a wood 2x subfascia.
- Additional framing may be needed to ensure proper fastening.
- Soffits can be installed as shown in figure 1. Position the vent holes toward the outside of the eave for optimal airflow.
- 12 in to 24 in wide HardieSoffit® Vented panels provide 5.0; and HardieSoffit® VentedPlus™ panels provide 12.6 square inches of net free ventilation per lineal foot.
- Alternatively vents can be installed into non-vented soffit.
- If necessary, an insect screen can be installed using construction adhesive. Note: net free ventilation will be reduced.

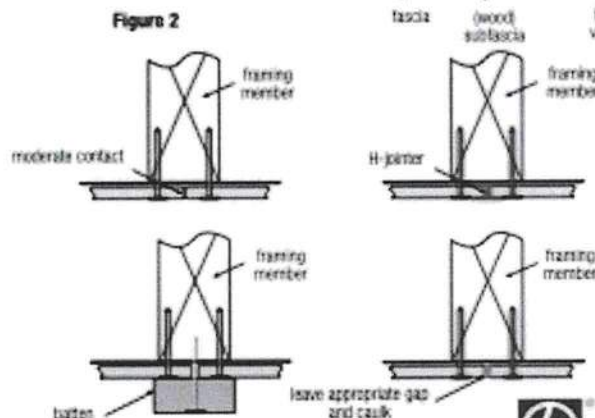
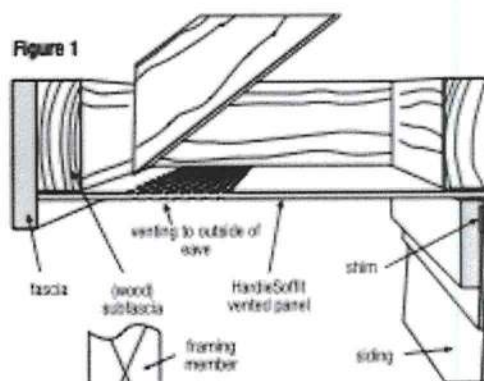
Jointing Methods

- Install panels in moderate contact at ends, provide PVC or metal jointers, battens or leave appropriate gap and caulk (fig 2).

Fastener Positioning

- Position fasteners 3/8 in from panel edges and no closer than 2 in away from corners when using soffit greater than 12 in wide (fig. 4) and no closer than 1 in away from corners when using soffit that is less than or equal to 12 in wide (fig. 3).

*For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-942-7343 or www.hardiewrap.com



VENTED SMOOTH | VENTEDPLUS™ SMOOTH | NON-VENTED SMOOTH | VENTED CEDARMILL® | VENTEDPLUS™ CEDARMILL® | NON-VENTED CEDARMILL®

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SP1204 P1/3 04/19



Figure 3

less than or equal to
12 in Wide Soffit

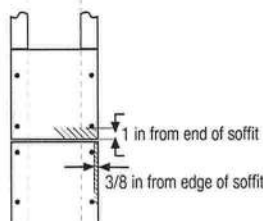


Figure 4

Greater than
12 in Wide Soffit

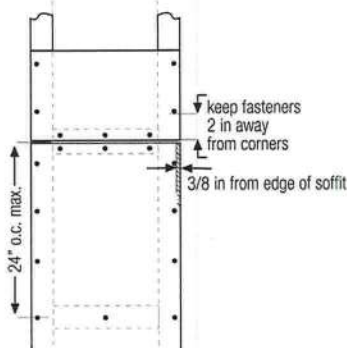


Figure 5

Maintain a minimum 1 in gap between
gutter end caps and siding & trim.

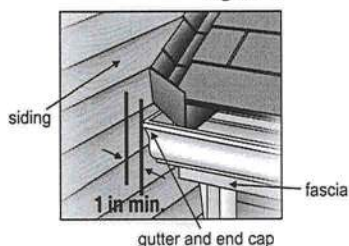
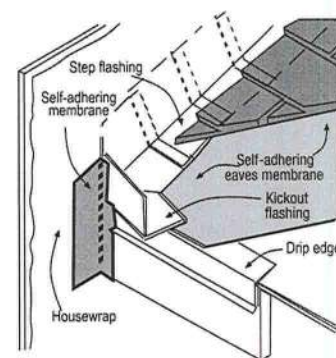


Figure 5

Figure 6



FASTENER REQUIREMENTS

- For wood frame construction a minimum 4d common nails spaced 8 in o.c. at panel edges and intermediate framing members spaced up to 24 in on center are suitable in most locations*.
- For conventional 20ga - 16ga steel frame construction a minimum No. 8-18 x 0.323 in HD x 1 in long ribbed bugle screws spaced 6 in o.c. at panel edges and intermediate framing members spaced up to 24 in on center are suitable in most locations*.

*Minimum Basic Wind Speed differs by locality. Where specified levels of wind resistance are required, refer to applicable Building Code Compliance Reports.

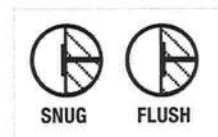
Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5."

GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie® products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.



DO NOT		DO NOT		DO NOT USE	
UNDER DRIVE		OVER DRIVE		ALUMINUM FASTENERS	
IF, THEN		IF, THEN ADDITIONAL NAIL			
WOOD FRAME	STEEL FRAME	FACE NAIL		CLIPPED HEAD NAILS	
HAMMER FLUSH	REMOVE & REPLACE	COUNTERSINK & FILL		STAPLES	



CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

CAULKING

For best results use an Elastomeric Joint Sealant complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions.

Note: some caulking manufacturers do not allow "tooling".

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products. Factory-primed James Hardie products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie® ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coat, available from your ColorPlus product dealer.

Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

SF1204 P3/3 04/19

SILICA WARNING

DANGER: May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

WARNING: This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to P65Warnings.ca.gov.

RECOGNITION: In accordance with ICC-ES Evaluation Report ESR-2273, HardieSoffit® panel is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardieSoffit panel is also recognized for application in the following: State of Florida Product Approval FL13265, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL1832-R16				
Application Type	Editorial Change				
Code Version	2020				
Application Status	Approved				
	*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.				
Comments					
Archived	☐				
Product Manufacturer	McElroy Metal, Inc.				
Address/Phone/Email	1500 Hamilton Rd. Bossier City, LA 71111 (318) 752-5045 tjohnson@mcelroymetal.com				
Authorized Signature	Tommy Johnson tjohnson@mcelroymetal.com				
Technical Representative	Tommy L. Johnson, PE				
Address/Phone/Email	1500 Hamilton Rd Bossier City, LA 71111 tjohnson@mcelroymetal.com				
Quality Assurance Representative	Gene Clark				
Address/Phone/Email	1500 Hamilton Road Bossier City, LA 71111 (318) 747-8000 gclark@mcelorymetal.com				
Category	Roofing				
Subcategory	Metal Roofing				
Compliance Method	Certification Mark or Listing				
Certification Agency	UL LLC				
Validated By	James L. Buckner, P.E. @ CBUCK Engineering ☒ Validation Checklist - Hardcopy Received				
Referenced Standard and Year (of Standard)	<table> <tr> <th>Standard</th><th>Year</th></tr> <tr> <td>UL 580</td><td>2006</td></tr> </table>	Standard	Year	UL 580	2006
Standard	Year				
UL 580	2006				
Equivalence of Product Standards Certified By					
Product Approval Method	Method 1 Option A				

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

04/28/2021
04/30/2021

05/07/2021

Summary of Products

FL #	Model, Number or Name	Description
1832.1	5V Crimp	24" coverage through fastened metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 453. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 453 5V Crimp.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 453 5V Crimp.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.2	MasterLok 90 (ML90)	Trapezoidal snap together standing seam metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 205. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 205 MasterLok 90.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 205 MasterLok 90.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.3	Max Rib	36" coverage through fastened metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 560. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 560 Max Rib.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 560 Max Rib.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.4	Maxima	Vertical Leg Mechanically seamed Standing Seam Metal Roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 construction No. 506A, 506B, 507A, 507B. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 506A Maxima Maxima ADV.pdf FL1832 R16 C CAC Construction No 506B Maxima Maxima ADV.pdf FL1832 R16 C CAC Construction No 506G Maxima .032 Aluminum.pdf FL1832 R16 C CAC Construction No 506H Maxima .032 Aluminum.pdf FL1832 R16 C CAC Construction No 507A Maxima 3 in.pdf FL1832 R16 C CAC Construction No 507B Maxima 3 in.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 506A Maxima Maxima ADV.pdf FL1832 R16 II Construction No 506B Maxima Maxima ADV.pdf FL1832 R16 II Construction No 506G Maxima .032 Aluminum.pdf FL1832 R16 II Construction No 506H Maxima .032 Aluminum.pdf FL1832 R16 II Construction No 507A Maxima 3 in.pdf FL1832 R16 II Construction No 507B Maxima 3 in.pdf Verified By: UL LLC Created by Independent Third Party:

		Evaluation Reports Created by Independent Third Party:
1832.5	Medallion I	Applied Batten Standing seam metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 280, 310. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 280 Medallion I.pdf FL1832 R16 C CAC Construction No 310 Medallion I.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 280 Medallion I.pdf FL1832 R16 II Construction No 310 Medallion I.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.6	Medallion II	Applied Batten Standing Seam Metal Roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 281, 308. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 281 Medallion II.pdf FL1832 R16 C CAC Construction No 308 Medallion II.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 281 Medallion II.pdf FL1832 R16 II Construction No 308 Medallion II.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.7	Medallion Lok	Vertical Leg Snap together Standing Seam Metal Roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 343, 468. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 343 Medallion Lok.pdf FL1832 R16 C CAC Construction No 468 Medallion Lok.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 343 Medallion Lok.pdf FL1832 R16 II Construction No 468 Medallion Lok.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.8	MegaRib	36" coverage through fastened metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 244. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 244 Mega Rib.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 244 Mega Rib.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.9	Mirage	Snap together standing seam metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 Construction No. 170. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 170 Mirage.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 170 Mirage.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.10	MultiRib	36" coverage through fastened metal roofing
Limits of Use Approved for use in HVHZ: No		Certification Agency Certificate FL1832 R16 C CAC Construction No 166 Multirib.pdf

Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 construction No. 166. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 166 Multirib.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:
1832.11	R-Panel	36" coverage through fastened metal roofing
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +0/-52.5 Other: Class 90 construction No. 161, 167. Not to be used in HVHZ. The use as a diaphragm is outside the scope of this approval.		Certification Agency Certificate FL1832 R16 C CAC Construction No 161 R Panel.pdf FL1832 R16 C CAC Construction No 167 R Panel.pdf FL1832 R16 C CAC UL QA Letter 3 29 2021.pdf Quality Assurance Contract Expiration Date 05/06/2026 Installation Instructions FL1832 R16 II Construction No 161 R Panel.pdf FL1832 R16 II Construction No 167 R Panel.pdf Verified By: UL LLC Created by Independent Third Party: Evaluation Reports Created by Independent Third Party:

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Product Approval Accepts:





Construction No. 468 TGKX.468 Roof Deck Constructions

[Page Bottom](#)

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

Roof Deck Constructions

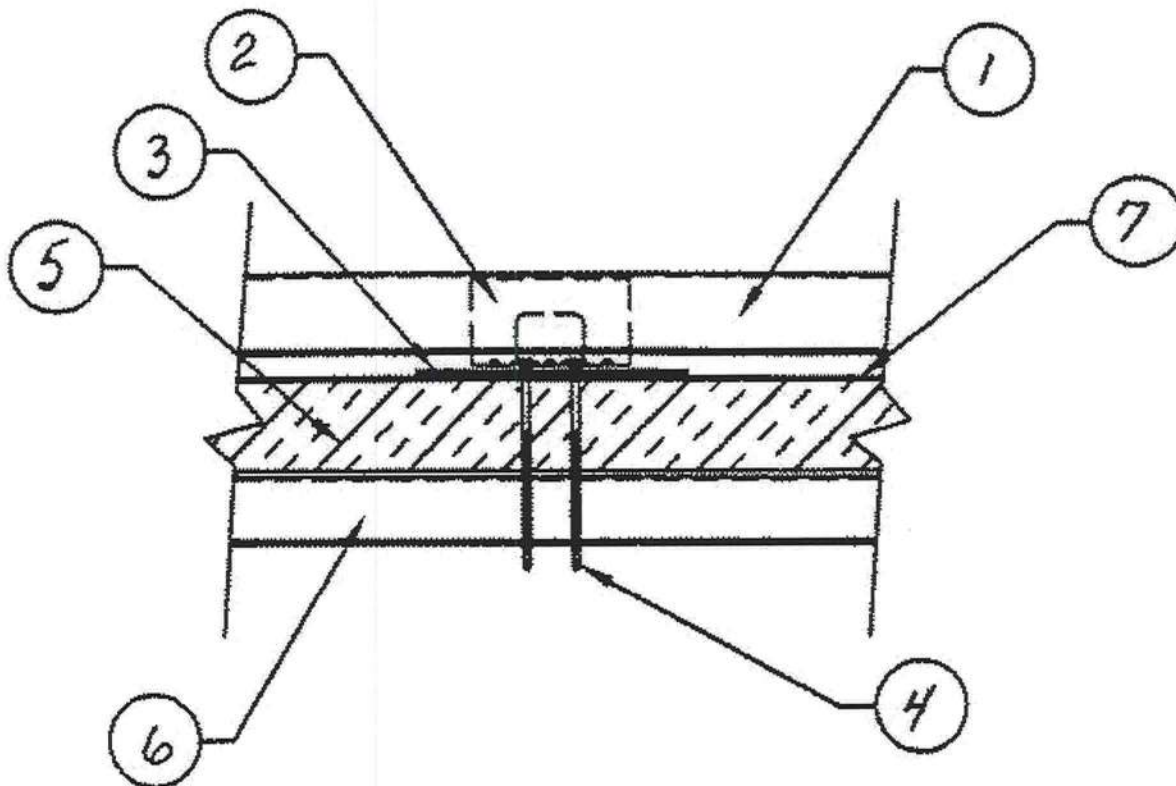
[See General Information for Roof Deck Constructions](#)

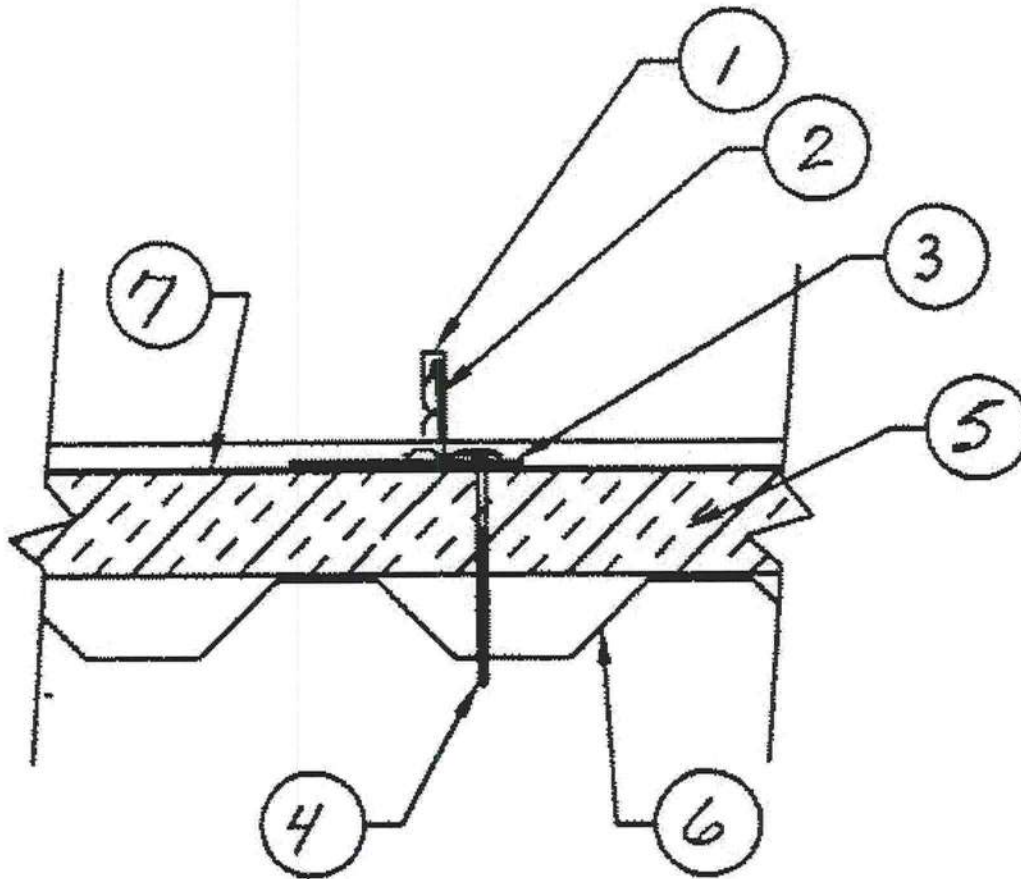
Construction No. 468

January 27, 2010

Uplift — Class 90

Fire Not Investigated





1. **Metal Roof Deck Panels*** — No. 24 MSG min thickness coated steel panels. Panel width 18 in. maximum. Panel ribs to be 1-3/4 in. high. Panels continuous over three or more clips with no end laps.

MCELROY METAL MILL INC ([View Classification](#)) — "Medallion-Lok" or "Metalogic-2000"

2. **Roof Deck Fasteners* (Panel Clips)** — One piece assembly, No. 18 MSG min thickness, 3-1/2 in. wide, 1-7/8 in. high. Clip spacing to be 48 in. OC. Clips to interface with Item 3 bearing plate.

MCELROY METAL MILL INC ([View Classification](#)) — "Medallion-Lok Clip"

3. **Bearing Plate** — One piece assembly, No. 18 MSG in thickness steel, 3-7/8 in. wide, 6 in. long. (50,000 psi min yield strength).

4. **Panel Fasteners — (Screws)** — Fasteners used to attach panel clips and bearing plates (Items 2 and 3) through rigid insulation and into light gauge steel deck (Item No. 6) to be No. 14 dia. with Phillips or square drive head, self-drilling steel screws. Two screws per clip to be used, inserted through 1/4 in. diam guide holes. Length of screws based on overall insulation thickness (4 in. max) plus metal deck depth.

5. **Foamed Plastic — (Rigid Insulation)** — Min thickness 1 in., max thickness 4 in. Density to be a min of 2 pcf. As an alternate, 7/16 in. thick oriented strand board (OSB) may be placed on top of the rigid insulation provided combined thickness of OSB and rigid insulation does not exceed 4 in. max.

6. **Liner Panel** — Min thickness No. 22 MSG. Coated steel (33,000 psi) min yield strength, min depth 1-1/2 in., fabricated to various profiles.

7. **Underlayment** — One ply of 30 lb roofing felt or one layer of bituminous resin type water proofing membrane.

8. **Supports (Not Shown)** — Used to support liner panels, spaced per deck manufacturer's specifications.

The following items may be used in conjunction with the "Medallion-Lok" Metal Roof Deck Panels (Item 1).

A. **Batten Clips*** — Slipped over ribs formed by roof deck panels. One piece assembly, 1-3/4 in. high, 1-3/4 in. max width, with four legs and two arms. Formed to engage ribs of "Medallion-Lok" Panels and Batten Cap (Item B). Clips spaced 48 in. OC.

MCELROY METAL MILL INC ([View Classification](#)) — "Medallion-Lok Batten Clip"

B. **Batten Cap*** — Slipped over batten clip. Two inches high, 1-1/2 in. wide at top with sides formed to engage batten clip (Item A). Snapped over batten clips.

MCELROY METAL MILL INC ([View Classification](#)) — "Medallion-Lok Batten Clip"

Refer to General Information, Roof Deck Construction (Roofing Materials and Systems Directory)
for items not evaluated.

*Bearing the UL Classification Mark

Last Updated on 2010-01-27

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Product Approval
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FL #	FL16342-R3	
Application Type	Revision	
Code Version	2020	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	Drexel Metals, Inc.	
Address/Phone/Email	204 Railroad Drive Ivyland, PA 18974 (502) 303-1511 jshumate@drexmet.com	
Authorized Signature	Jason Shumate jshumate@drexmet.com	
Technical Representative		
Address/Phone/Email		
Quality Assurance Representative		
Address/Phone/Email		
Category	Roofing	
Subcategory	Underlayments	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest	
Florida License	PE-74021	
Quality Assurance Entity	UL LLC	
Quality Assurance Contract Expiration Date	12/31/2025	
Validated By	Locke Bowden P.E. ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL16342_R3_COI_DRX13004.3_2020_FBC_Eval_MetShield_final.pdf	
Referenced Standard and Year (of Standard)	Standard ASTM D 1970	Year 2015
Equivalence of Product Standards Certified By		
Sections from the Code		
Product Approval Method	Method 1 Option D	

Date Submitted	08/09/2020
Date Validated	08/10/2020
Date Pending FBC Approval	08/24/2020
Date Approved	10/13/2020

Summary of Products

FL #	Model, Number or Name	Description
16342.1	MetShield	ASTM D 1970 self-adhering roofing underlayment
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use		Installation Instructions FL16342_R3_II_DRX13004.3 2020 FBC Eval MetShield final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes Evaluation Reports FL16342_R3_AE_DRX13004.3 2020 FBC Eval MetShield final.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



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CREEK

TECHNICAL SERVICES, LLC

Certificate of Authorization No. 29824
17520 Edinburgh Drive
Tampa, FL 33647
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: DREXEL METALS, INC.
1234 Gardiner Lane
Louisville, KY 40213
(502) 716-7143
www.drexmet.com

Issued August 9, 2020

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1507.1.1, 1507.2.4
Properties: Physical properties

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
Trinity ERD (TST6049)	C41280.10.12	ASTM D 1970	2015a
ICC-ES (EVL2396)	ESR-2206	ASTM D 1970	2015a

PRODUCT DESCRIPTION AND APPLICATION

MetShield MetShield is a coated-polyolefin-composite film surfaced, self-adhered ASTM D 1970 underlayment for use on steep slope roofs.

Deck Type: Solid or closely fitted plywood sheathing for new or existing construction. Plywood deck shall be installed in accordance with FBC requirements. Roof decks shall have no more than 1/8" gap at abutting joints.

Min. slope: In accordance with FBC requirements

Attachment method: Underlayment shall be attached in accordance with the FBC Section 1507.1.1, Table 1507.1.1.1 and manufacturer's installation instructions.

Min. application temperature: 40°F. *Contact the manufacturer when installing at temperatures below 40°F.*

Allowable roof coverings: Permitted to be used as prescribed in FBC Table 1507.1.1.1 with mechanically fastened roof coverings.



LIMITATIONS

- 1) This evaluation report is not use in the HVHZ.
- 2) Fire Classification is not within the scope of this evaluation.
- 3) Wind uplift resistance in not within scope of this evaluation.
- 4) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
- 5) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
- 6) MetShield may be used as described in other current FBC product approval documents.
- 7) MetShield shall not be used with adhered tile roof coverings nor installed over existing roof coverings.
- 8) MetShield shall be exposed on the roof deck for a maximum duration of 30 days.
- 9) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) as evidenced in the referenced documents submitted by the named manufacturer.



Zachary R. Priest
Digitally signed by Zachary R. Priest

2020.08.09

12:30:46

-04'00'

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT

FLORIDA DEPARTMENT OF
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Product Approval
USER: Public User

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[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL #	FL5012-R25												
Application Type	Revision												
Code Version	2020												
Application Status	Approved												
Comments													
Archived	☐												
Product Manufacturer	PGT Industries												
Address/Phone/Email	1070 Technology Drive North Venice, FL 34275 (941) 486-0100 Ext 21140 jrosowski@pgtindustries.com												
Authorized Signature	Jens Rosowski jrosowski@pgtindustries.com												
Technical Representative	Lynn Miller, P.E.												
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com												
Quality Assurance Representative													
Address/Phone/Email													
Category	Windows												
Subcategory	Fixed												
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received												
Florida Engineer or Architect Name who developed the Evaluation Report	A. Lynn Miller, P.E.												
Florida License	PE-58705												
Quality Assurance Entity	Keystone Certifications, Inc.												
Quality Assurance Contract Expiration Date	12/31/2023												
Validated By	Steven M. Urich, PE ☒ Validation Checklist - Hardcopy Received												
Certificate of Independence	FL5012_R25_COI_Cert of Independence.pdf												
Referenced Standard and Year (of Standard)	<table> <thead> <tr> <th><u>Standard</u></th><th><u>Year</u></th></tr> </thead> <tbody> <tr> <td>AAMA/WDMA/CSA 101/IS2/A440</td><td>2017</td></tr> <tr> <td>ASTM E 1886</td><td>2013</td></tr> <tr> <td>ASTM E1996</td><td>2012</td></tr> <tr> <td>ASTM E283</td><td>2004</td></tr> <tr> <td>ASTM E330</td><td>2002</td></tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	AAMA/WDMA/CSA 101/IS2/A440	2017	ASTM E 1886	2013	ASTM E1996	2012	ASTM E283	2004	ASTM E330	2002
<u>Standard</u>	<u>Year</u>												
AAMA/WDMA/CSA 101/IS2/A440	2017												
ASTM E 1886	2013												
ASTM E1996	2012												
ASTM E283	2004												
ASTM E330	2002												
Equivalence of Product Standards Certified By	Florida Licensed Professional Engineer or Architect FL5012_R25_Equiv_AAMA 101-97 and 05 to AAMA 101-17 Equivalency												

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

08/10/2022

Date Validated

08/14/2022

Date Pending FBC Approval

08/19/2022

Date Approved

10/11/2022

Summary of Products

FL #	Model, Number or Name	Description
5012.1	PW - 640	Aluminum Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R25 II FCA640FPA-NI.pdf Verified By: A. Lynn Miller, PE 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R25 AE Eng Eval - PW640.pdf Created by Independent Third Party: No
5012.2	PW-5420	EnergyVue Vinyl Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R25 II PW5420FPA-NI.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R25 AE Eng Eval - PW5420.pdf Created by Independent Third Party: No
5012.3	PW-5440	EnergyVue Vinyl Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R25 II PW5440FPA-NI.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R25 AE Eng Eval - PW5440.pdf Created by Independent Third Party: No
5012.4	PW-5520	WinGuard Vinyl Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R25 II PW5520FPA-LM.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R25 AE Eng Eval - PW5520.pdf Created by Independent Third Party: No
5012.5	PW-5540	WinGuard Vinyl Casement Picture Window
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the Installation Instructions for design pressure, size and anchorage information.		Installation Instructions FL5012 R25 II PW5540FPA-LM.pdf Verified By: A. Lynn Miller, P.E. 58705 Created by Independent Third Party: No Evaluation Reports FL5012 R25 AE Eng Eval - PW5540.pdf Created by Independent Third Party: No

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Product Approval Accepts:



SERIES PW5520V IMPACT RESISTANT, VINYL PICTURE WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE.

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLES 2 & 3. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.

4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. ANCHORS AND FRAME CORNERS SHOULD BE SEALED. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE WINDOW.

6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.

DESIGN PRESSURE RATING
SEE TABLE 1

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE MISSILE LEVEL D, WINDZONE 4

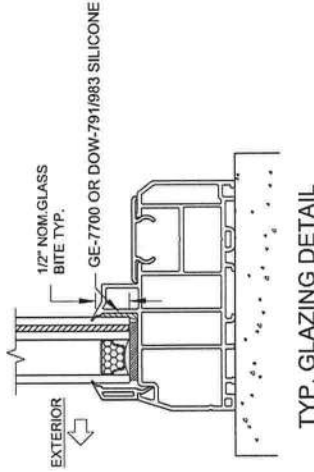
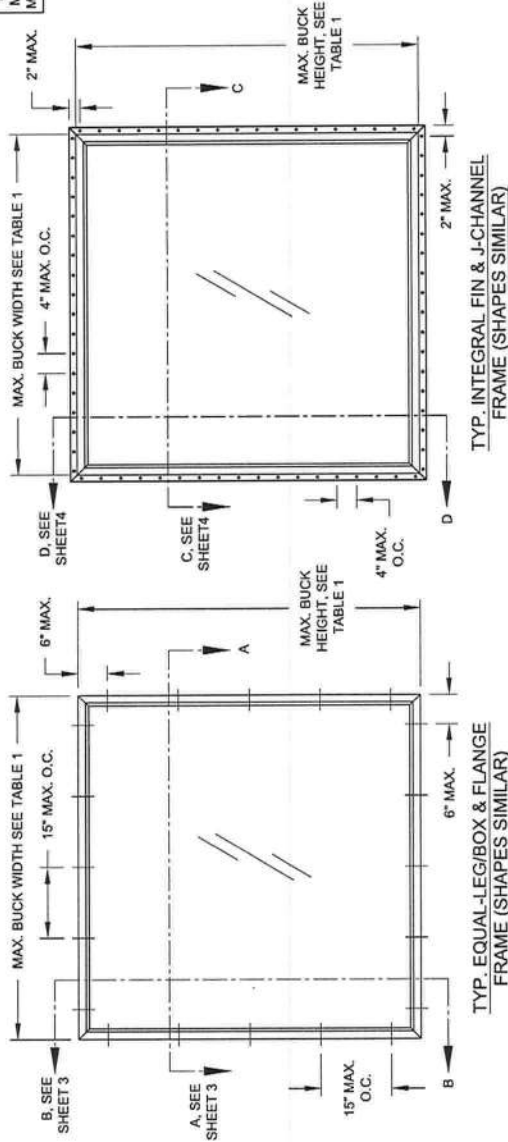
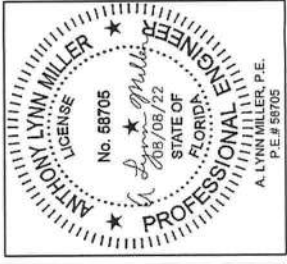


TABLE 1:

Window Buck Size		Design Pressure		Product Rating	
Width	Height	(+) psf	(-) psf		
84	54	65.0*	65.0*	CW-PG70	
84	54	70.0	70.0	CW-PG70	
84	72	70.0	70.0	CW-PG70	
96	63	70.0	70.0	CW-PG70	
75	48	50.0	50.0	CW-PG50	
36	72	50.0	50.0	CW-PG50	

* IMPACT/CYCLE DESIGN PRESSURE IS LIMITED FOR UNITS USING AN ANNEALED GLASS CAP.

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VINYL PICTURE WINDOW (LM) 06/12/11	ELEVATION & GENERAL NOTES JENS ROSOWSKI	Sheet 1 OF 4 DWG No. PW5520FPA-LM



Date 08/01/22 C	Updated Cert. Method
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TABLE 2: ANCHORS INSTALLED THROUGH FRAME

Anchor	Substrate	Min. Edge Distance	Min. Embedment
#10 SMS (steel, 18-8 S.S. or 410 S.S.) Max. DP of 50.0 psf	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
#12 SMS (steel, 18-8 S.S. or 410 S.S.)	P.T. Southern Pine (SG=0.55)	9/16"	1-3/8"
	Steel, A36	3/8"	0.050"
	Steel Stud, A653 Gr. 33	3/8"	0.0346" (20 Ga.)
	Aluminum, 6063-T5	3/8"	0.0713" (14 Ga.)
3/16" Ultracon Max. DP of 50.0 psf	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	7/16"	1-3/8"
3/16" Ultracon+ Max. DP of 50.0 psf	Concrete (min. 3 ksi)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 2.85 ksi)	1"	1-3/4"
1/4" Ultracon	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3 ksi)	1-3/16"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	1"	1-1/4"
1/4" Crete-Flex (410 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Concrete (min. 3.35 ksi)	1"	1-3/4"
	Ungrouted CMU, (ASTM C-90)	2-1/2"	1-1/4"
	Concrete (min. 3.275 ksi)	1-1/2"	1-3/8"
1/4" Aggre-Gator (18-8 S.S.)	P.T. Southern Pine (SG=0.55)	1"	1-3/8"
	Ungrouted CMU, (ASTM C-90)	2"	1-1/4"

1) "UNGRADED CMU" VALUES MAY BE USED FOR GROUTED CMU APPLICATIONS.

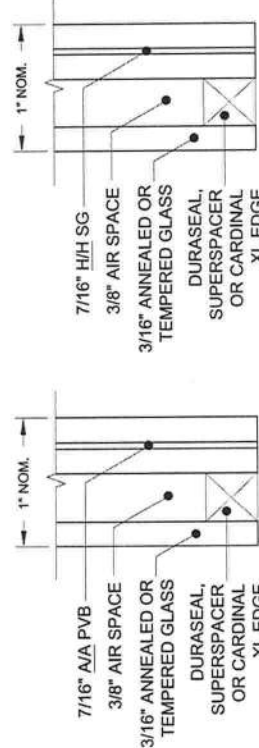
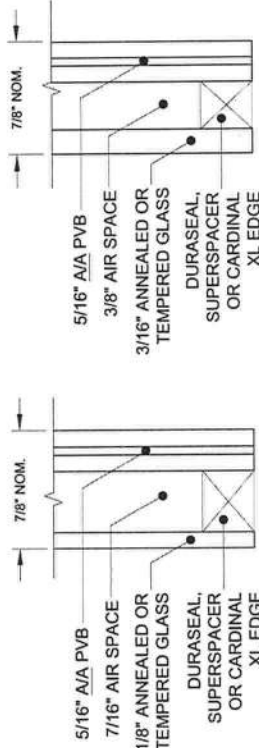
2) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.

3) ANCHOR LENGTH TO BE SO THAT A MIN. OF 3 THREADS EXTEND BEYOND THE METAL SUBSTRATE.

TABLE 3: ANCHORS INSTALLED THROUGH INTEGRAL FIN

Anchor	Substrate	Min. Edge Distance	Min. Embedment
2-1/2" x .131" Common Nail Max. DP of 50.0	P.T. Southern Pine (SG= .55)	9/16"	2-7/16"
	P.T. Southern Pine (SG= .55)	9/16"	2-7/16"
	P.T. Southern Pine (SG= .55)	9/16"	2-7/16"
	P.T. Southern Pine (SG= .55)	3/4"	1-3/8"
#10 SMS (steel, 18-8 S.S. or 410 S.S.)	Aluminum, 6063-T5	3/8"	0.050"
	Steel Stud, Gr. 33	3/8"	0.0346" (20 Ga.)
	Steel, A36	3/8"	0.050"
	Steel, A36	3/8"	0.050"

1) PANHEAD, FLATHEAD OR HEXHEAD ARE ACCEPTABLE.



GLAZING TYPES

VISIBLE LIGHT FORMULAS

WIDTH: BUCK WIDTH - 4-5/16"

HEIGHT: BUCK HEIGHT - 4-5/16"

VISIBLE LIGHT WIDTH OR HEIGHT

(ALSO REFERRED TO AS DAYLIGHT

OPENING) IS MEASURED FROM

BEADING TO BEADING.

PVB = KURARAY TROSIFOL PVB INTERLAYER BY KURARAY AMERICA, INC.

A = ANNEALED

H = HEAT STRENGTHENED

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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ANCHORS AND GLAZING
DETAILS
VINYL PICTURE WINDOW (LM)
06/12/11
JENS ROSOWSKI

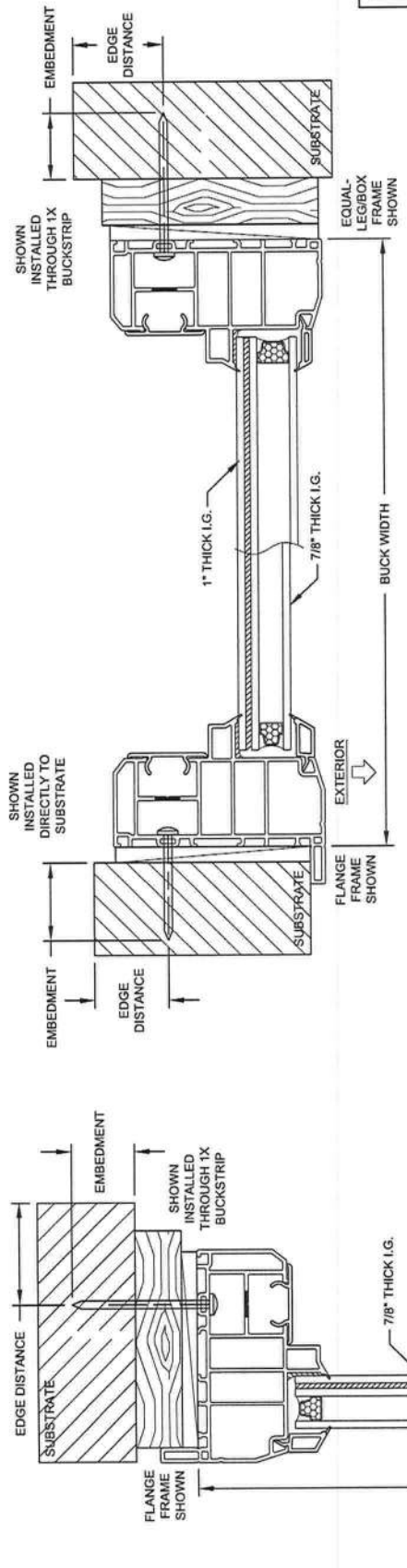
Rev. 08/01/22
C
UPDATED CERT. METHOD

2 OF 4
PW5520V
PW5520V-PA-LM

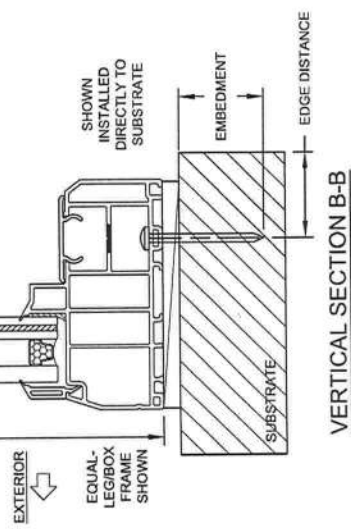
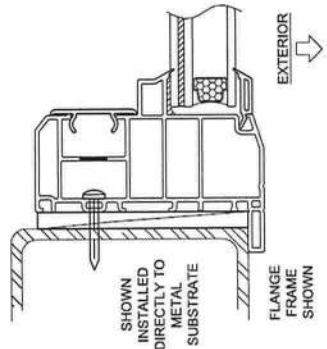


PW5520V		Sheet	3 OF 4	DWG No.	PW5520FPA-LM
VINYL PICTURE WINDOW (LM)		Date	06/12/11	Drawn By	JENS ROSOWSKI
FLANGE/EQUAL-LEG		INSTALLATION			
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REGISTRATION #29296		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1800			

ANTHONY LYNN MILLER
 No. 58705
 State of Florida
 PROFESSIONAL ENGINEER
 A. LYNN MILLER, P.E.
 P.E. # 58705



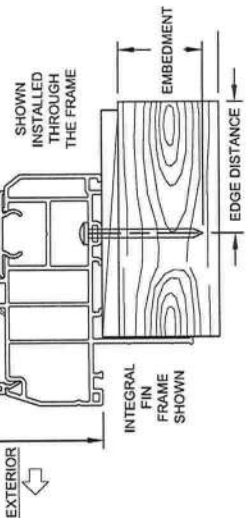
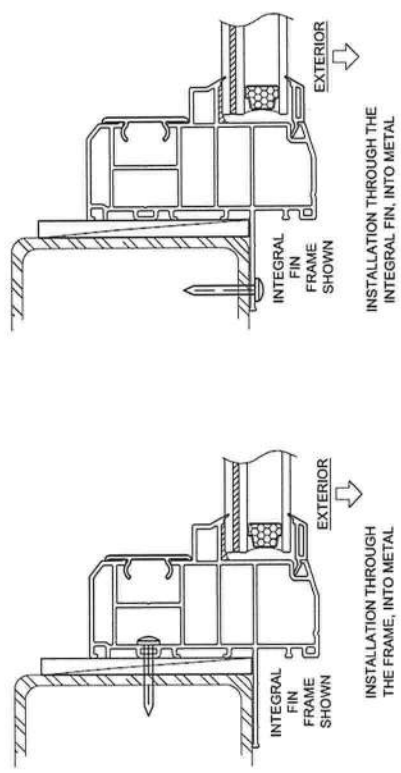
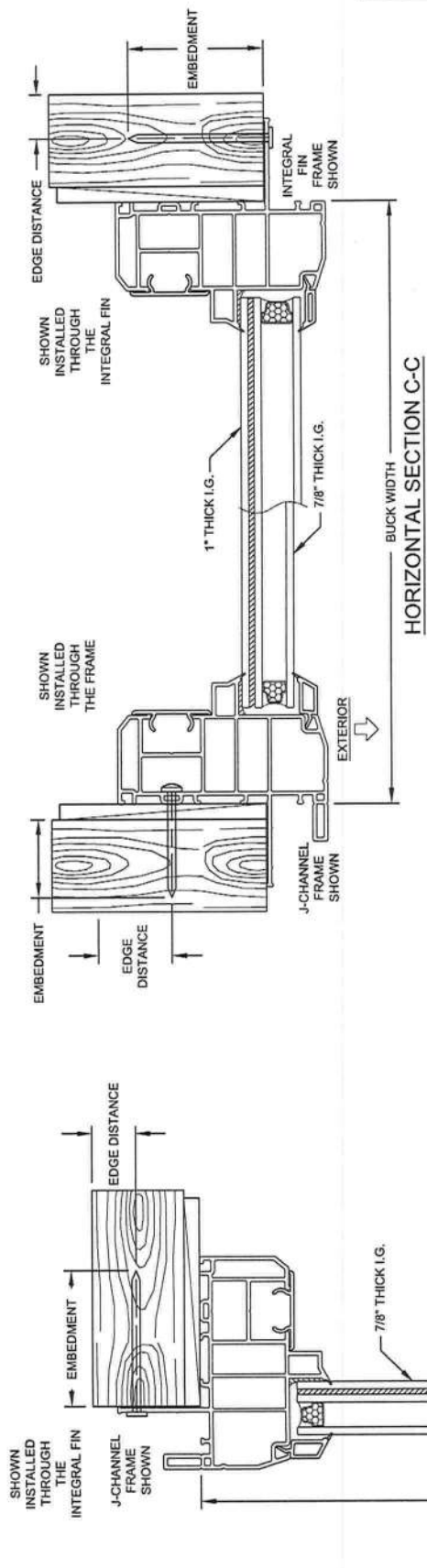
HORIZONTAL SECTION A-A



VERTICAL SECTION B-B

- INSTALLATION NOTES:
- 1) SEE SHEET 1 FOR SPACING REQUIREMENTS.
 - 2) SEE TABLE(S) ON SHEET 2 FOR ANCHORAGE AND SUBSTRATE REQUIREMENTS.
 - 3) MAX. SHIM THICKNESS TO BE 1/4".
 - 4) GLASS SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY AND MAY DIFFER TO MEET DESIGN REQUIREMENTS.
 - 5) FIN AND/OR FLANGE MAY BE REMOVED TO CREATE OTHER FRAME TYPES.

Series Desc. Title		PW5520V		Sheet 4 OF 4		DWG No. PW5520FPA-LM	
FIN INSTALLATION		VINYL PICTURE WINDOW (LM)		Date 06/12/11		Drawn By JENS ROSOWSKI	
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- INSTALLATION NOTES:**
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Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #

FL17540-R5

Application Type

Revision

Code Version

2020

Application Status

Approved

Comments

Archived



Product Manufacturer

Therma-Tru Corporation

Address/Phone/Email

1750 Indian Wood Circle
Maumee, OH 43537
(800) 843-7628
sjasperson@thermatru.com

Authorized Signature

Vivian Wright
rickw@rwblgdgconsultants.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Swinging Exterior Door Assemblies

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

☐ Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Lyndon F. Schmidt, P.E.

Florida License

PE-43409

Quality Assurance Entity

National Accreditation and Management Institute

Quality Assurance Contract Expiration Date

12/31/2026

Validated By

Ryan J. King, P.E.

☒ Validation Checklist - Hardcopy Received

Certificate of Independence

[FL17540 R5 COI \(d\) Certificate of Independence.pdf](#)

Referenced Standard and Year (of Standard)

Standard

Year

ASTM E1886	2002
ASTM E1886	2005
ASTM E1996	2005
ASTM E1996	2002
ASTM E1996	2009
ASTM E1996	2006
ASTM E330	2002
ASTM E331	2000
TAS 201, 202, 203	1994

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

07/12/2020

Date Validated

07/15/2020

Date Pending FBC Approval

07/20/2020

Date Approved

10/13/2020

Summary of Products

FL #	Model, Number or Name	Description
17540.1	a. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.1 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.1.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.1.pdf Created by Independent Third Party: Yes
17540.2	b. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.2 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.2.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.2.pdf Created by Independent Third Party: Yes
17540.3	c. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.3 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.3.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.3.pdf Created by Independent Third Party: Yes
17540.4	d. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Opaque Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.4 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.4.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.4.pdf Created by Independent Third Party: Yes
17540.5	e. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.5 for Design Pressure Ratings, any		Installation Instructions FL17540 R5 II (g) Inst 17540.5.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports

additional use limitations, installation instructions and product particulars.		FL17540 R5 AE (g) Eval 17540.5.pdf Created by Independent Third Party: Yes
17540.6	f. Therma-Tru Benchmark Doors	Nominal 6'8 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.6 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.6.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.6.pdf Created by Independent Third Party: Yes
17540.7	g. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door (Inswing/Outswing; X configuration)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.7 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.7.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (g) Eval 17540.7.pdf Created by Independent Third Party: Yes
17540.8	h. Therma-Tru Benchmark Doors	Nominal 8'0 "Impact" Glazed Fiberglass "Smooth Surface" or "Wood Grain" Single Door with Sidelite(s) (Inswing/Outswing; XO, OX or OXO configurations)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See INST 17540.8 for Design Pressure Ratings, any additional use limitations, installation instructions and product particulars.		Installation Instructions FL17540 R5 II (g) Inst 17540.8.pdf Verified By: Lyndon F. Schmidt, P.E. 43409 Created by Independent Third Party: Yes Evaluation Reports FL17540 R5 AE (h) Eval 17540.8.pdf Created by Independent Third Party: Yes

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Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

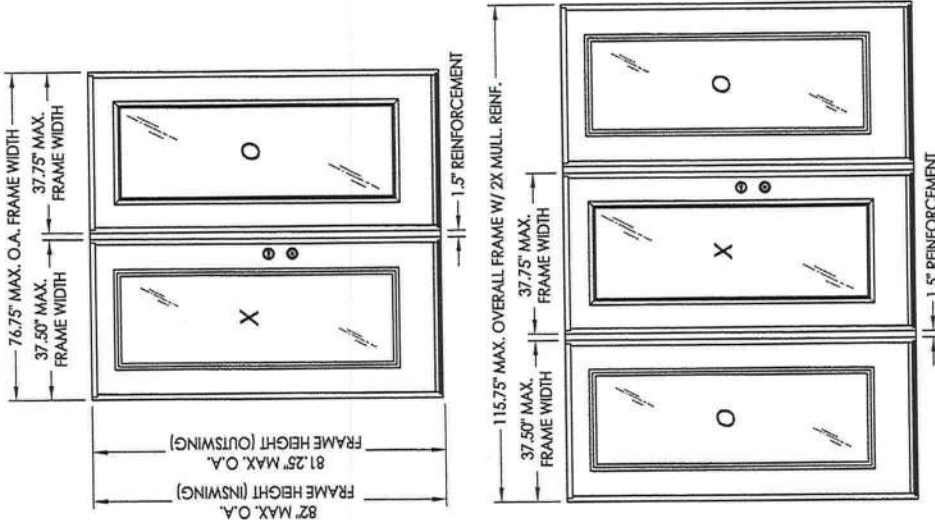
THERMA-TRU® Benchmark® Doors

WOOD EDGE GLAZED FIBERGLASS SINGLE DOOR W/ SIDELITE(S) INSWING/OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 & R301.2.1.1.
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.
6. Benchmark 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	SHEET#	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes	9	Vertical Cross Sections (Thresholds)
2	Door Panel Details	10	Buck Anchoring
3	Sidelite Panel Details	11	Frame Anchoring
4	Elevations	12	Hardware Details
5	Horizontal & Vertical Cross Sections (2X Buck)	13	Glazing Details
6	Horizontal Cross Sections	14	Components
7	Horizontal & Vertical Cross Sections (1X Buck)	15	Bill of Materials
8	Horizontal & Vertical Cross Sections (Direct to Masonry)		



CONFIGURATION	DESIGN PRESSURE (PSF)		DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
XO, OX, OXO	+50.0	-50.0	+50.0	-50.0

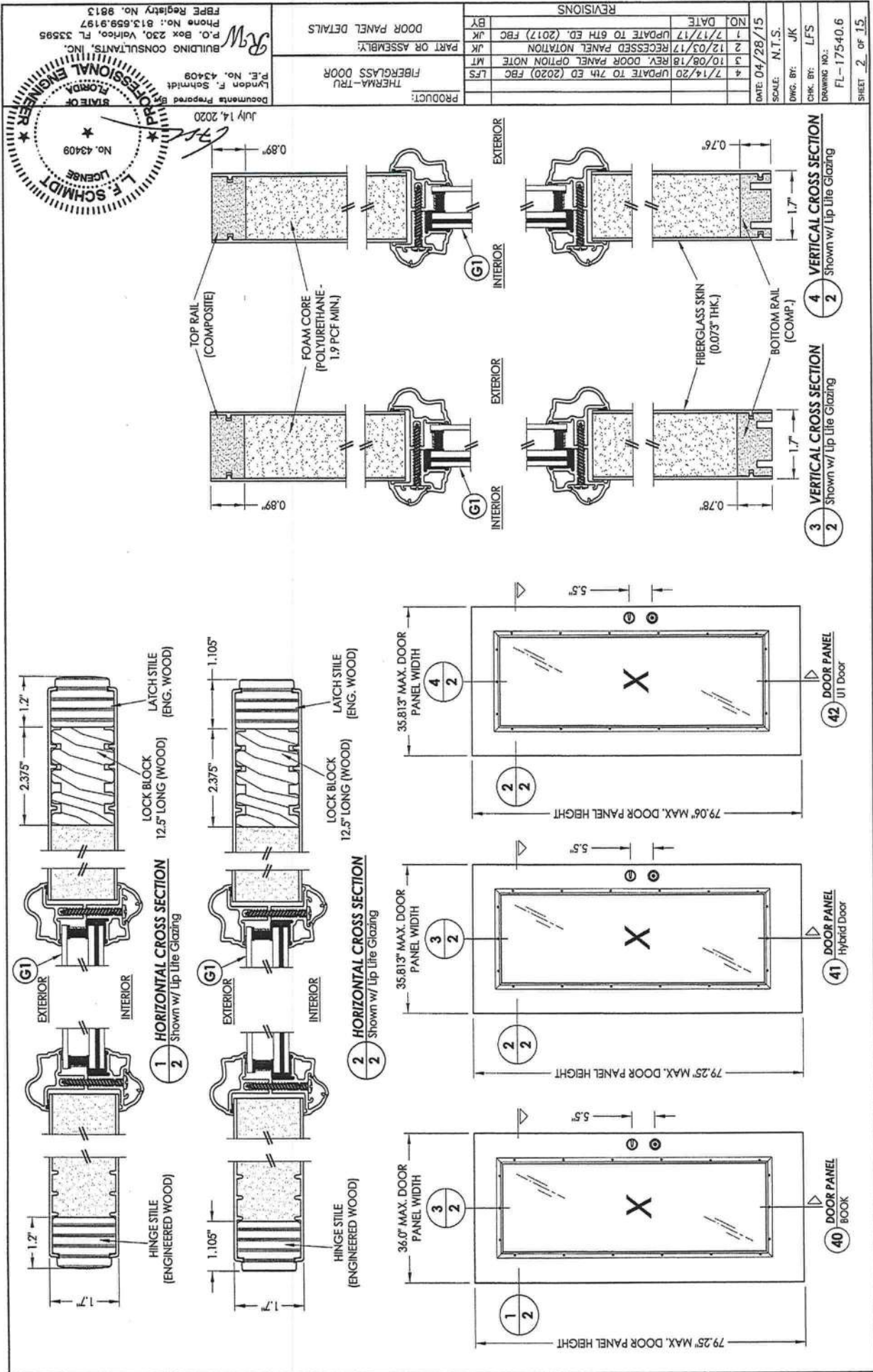
See Sheet 4 for Hardware Specifications

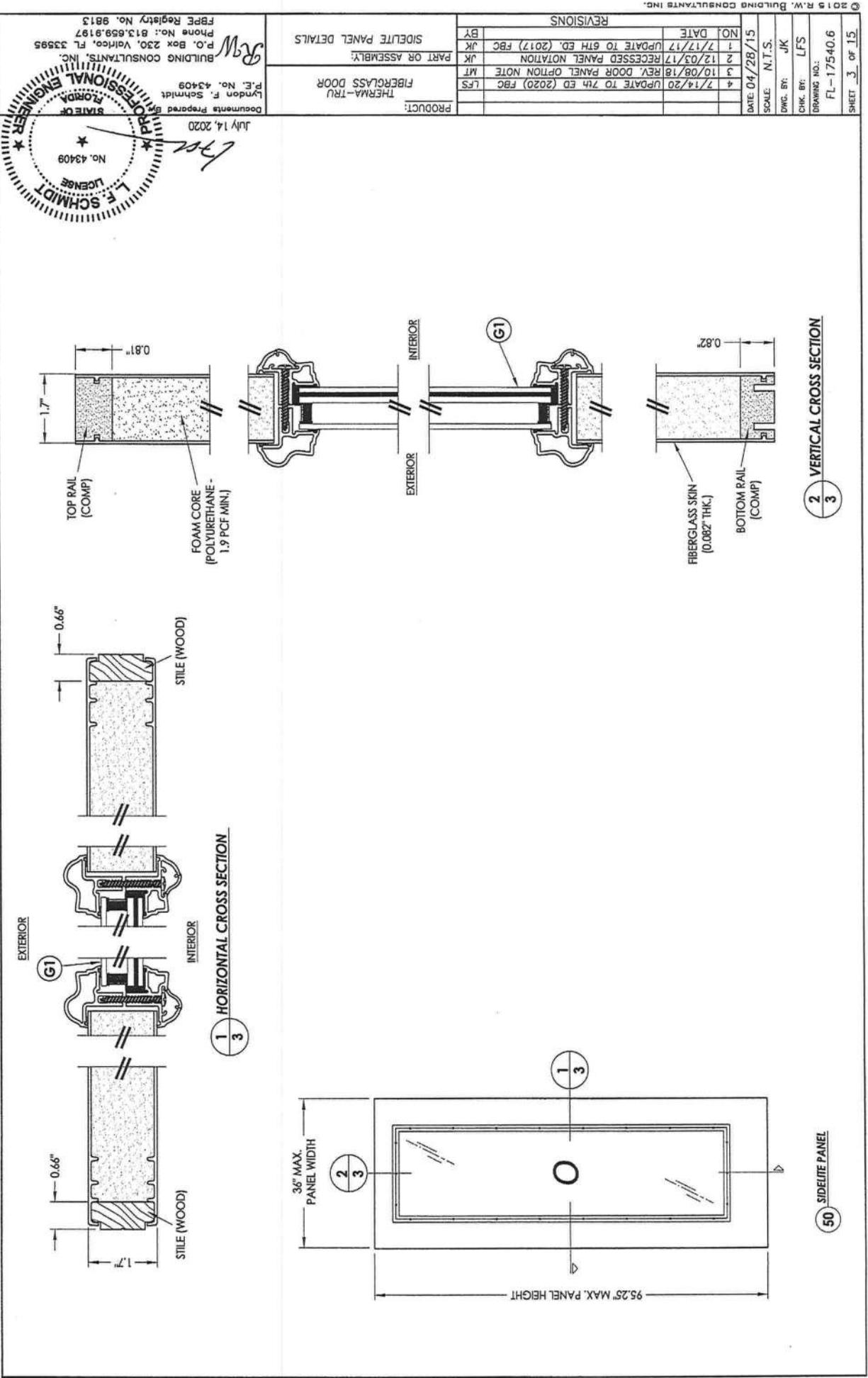
Professional Engineer
L.F. SCHMIDT
No. 43409
FLORIDA
STATE OF
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vero Beach, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

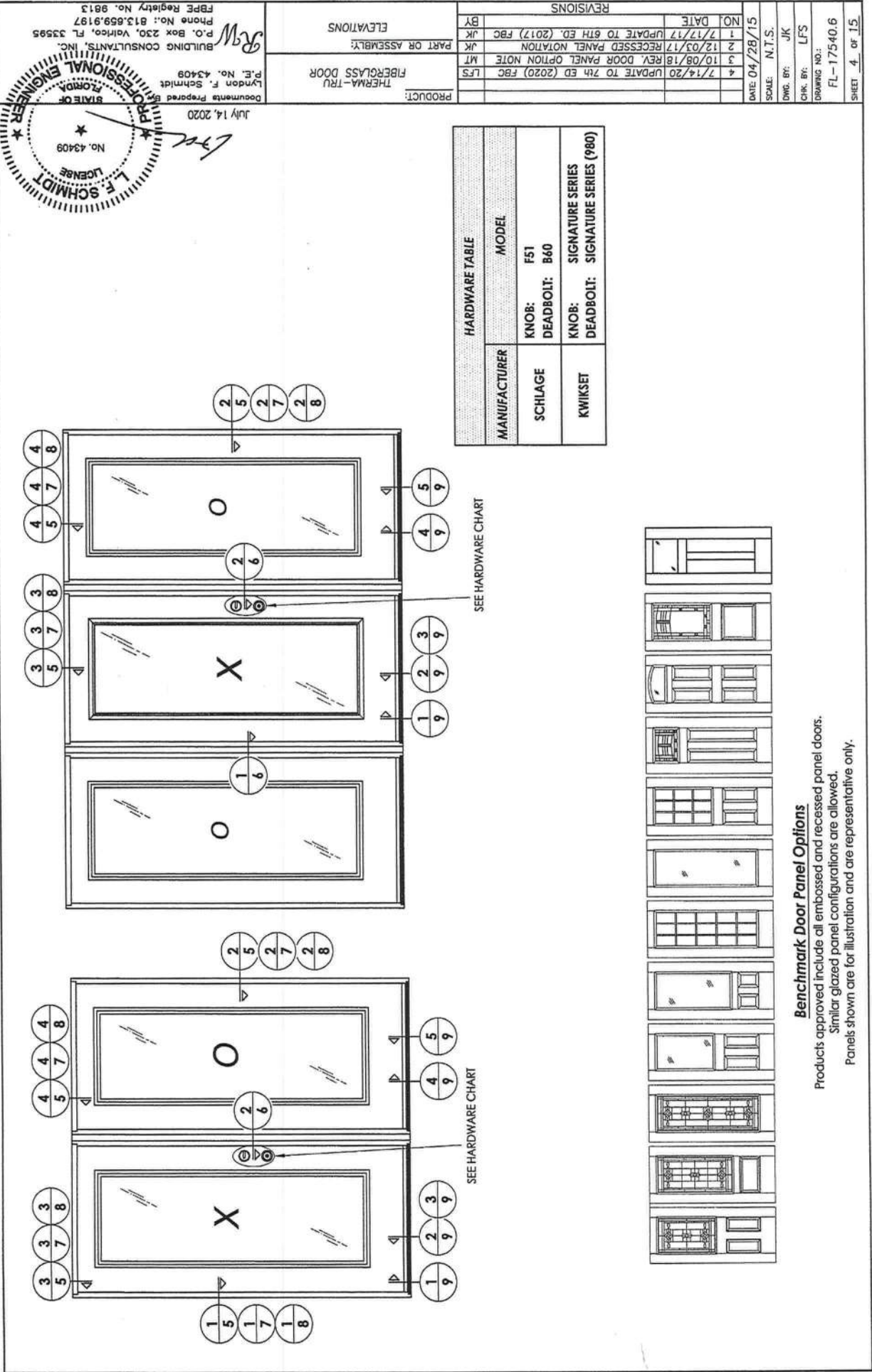
PRODUCT: THERMA-TRU
FIBERGLASS DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

REVISIONS	
NO.	DATE
1	7/17/17
2	12/03/17
3	10/08/18
4	7/14/20

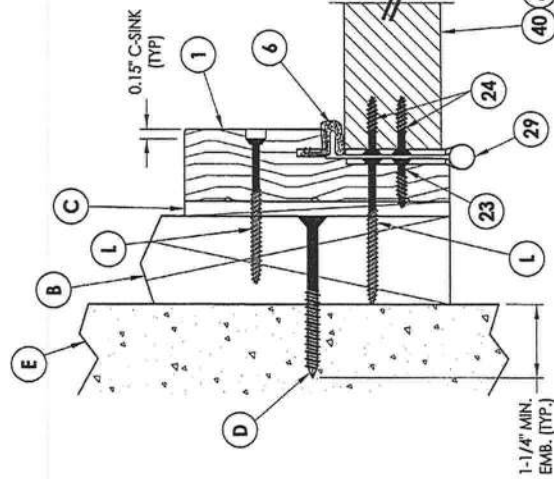
DATE: 04/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-17540.6
SHEET 1 of 15



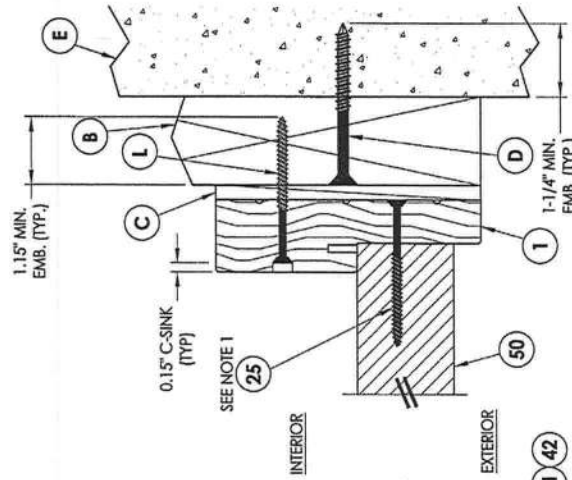




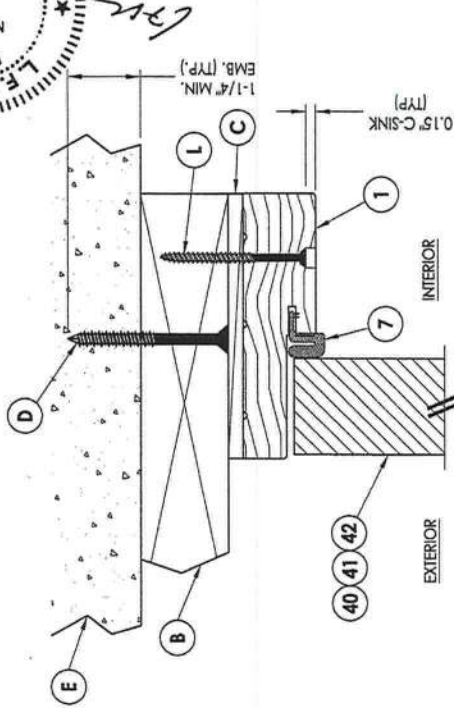
- Notes:
1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
 2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



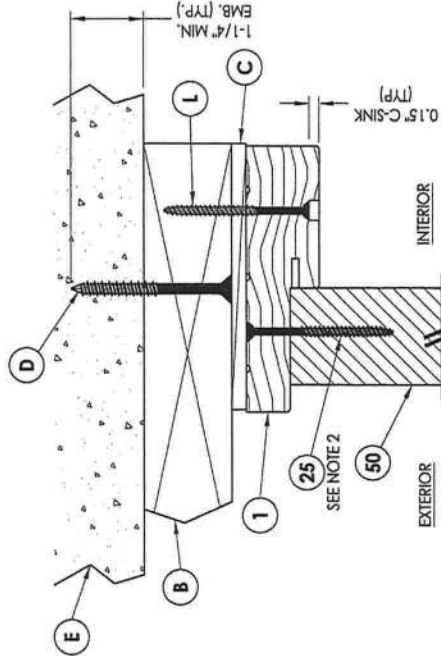
1 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (inswing similar)



2 HORIZONTAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (inswing similar)



3 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (inswing similar)



4 VERTICAL CROSS SECTION
5 Shown w/ 2X Buck
Outswing shown (inswing similar)

REVISIONS

NO.	DATE	DESCRIPTION
1	7/17/17	UPDATE TO 6TH ED. (2017) FBC
2	12/03/17	RECESSED PANEL NOTATION
3	10/08/18	REV. DOOR PANEL OPTION NOTE
4	7/14/20	UPDATE TO 7TH ED (2020) FBC

BY: JK
CHK: LFS

PRODUCT: THERMA-TRU FIBERGLASS DOOR

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

DATE: 04/28/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS

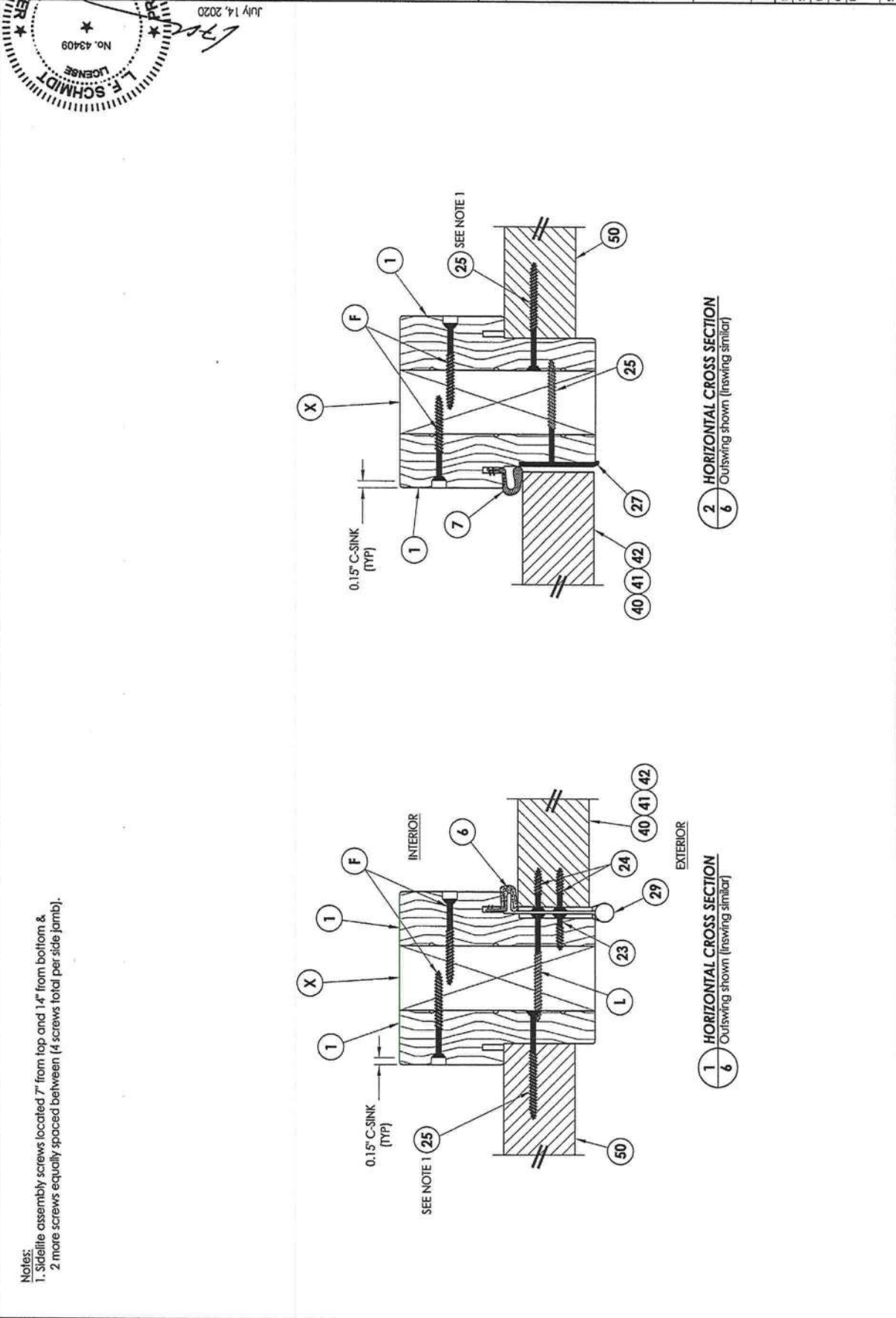
DRAWING NO.: FL-17540.6
SHEET: 5 of 15

PREPARED BY: Lyndon F. Schmidt
P.E. No. 43409
JULY 14, 2020

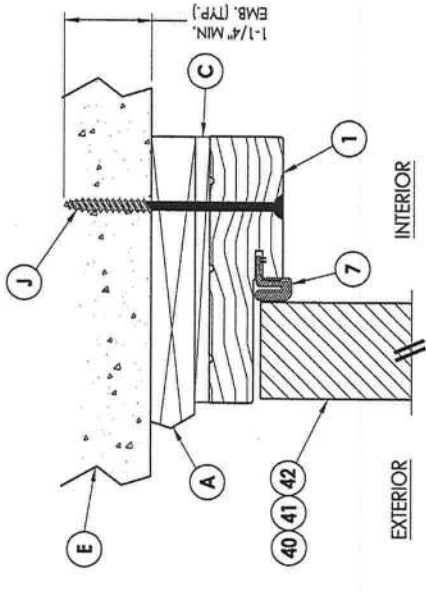
BUILDING CONSULTANTS, INC.
P.O. Box 230, Venice, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PROFESSIONAL ENGINEER
STATE OF FLORIDA
L.F. SCHMIDT
No. 43409
LICENSE

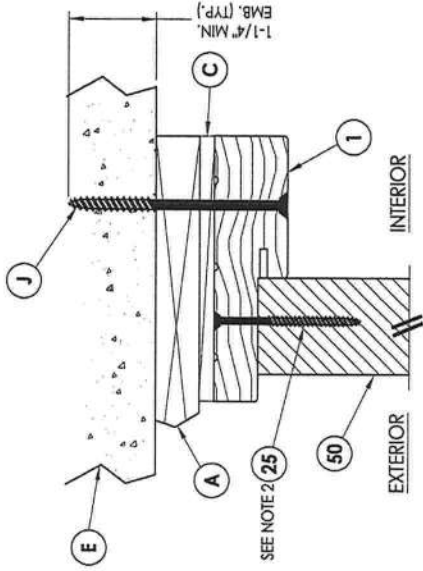
REVISIONS NO. DATE 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC 2 12/03/17 RECESSED PANEL NOTATION 3 10/08/18 REV. DOOR PANEL OPTION NOTE 4 7/14/20 UPDATE TO 7TH ED (2020) FBC		BY JK JK MT LFS
PART OR ASSEMBLY: THERMA-TRU FIBERGLASS DOOR		PRODUCT: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)
BUILDING CONSULTANTS, INC. P.O. Box 230, Vero Beach, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		L.F. SCHMIDT PROFESSIONAL ENGINEER No. 43409 STATE OF FLORIDA July 14, 2020



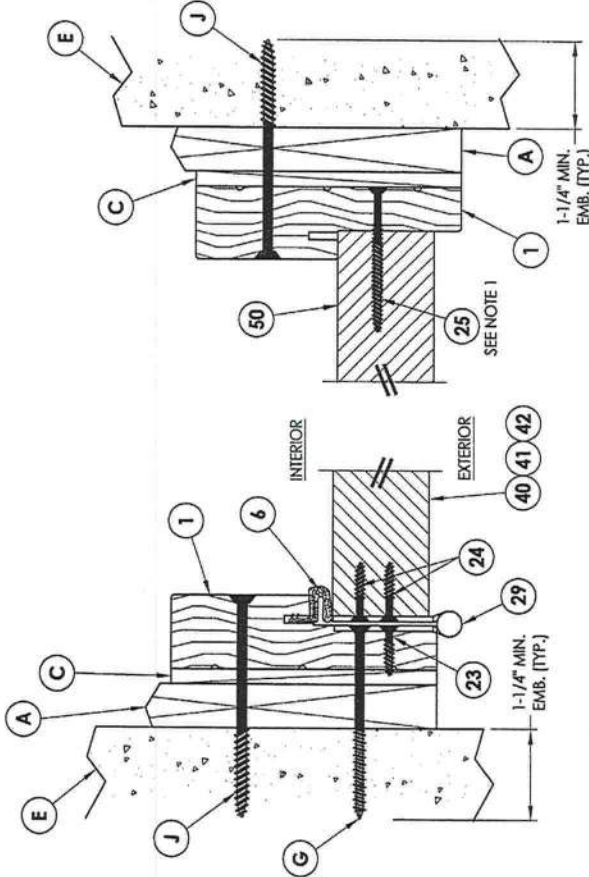
Documents Prepared by
Lyndon F. Schmidt
P.E. No. 43409
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BUILDING CONSULTANTS, INC.
Professional Engineer
Florida
State of
F.B.P.E. Registry No. 9813
Phone No.: 813.659.9197
P.O. Box 230, Valrico, FL 33595
F.B.P.E. Registry No. 9813



3 VERTICAL CROSS SECTION
7 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



4 **VERTICAL CROSS SECTION**
7 Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

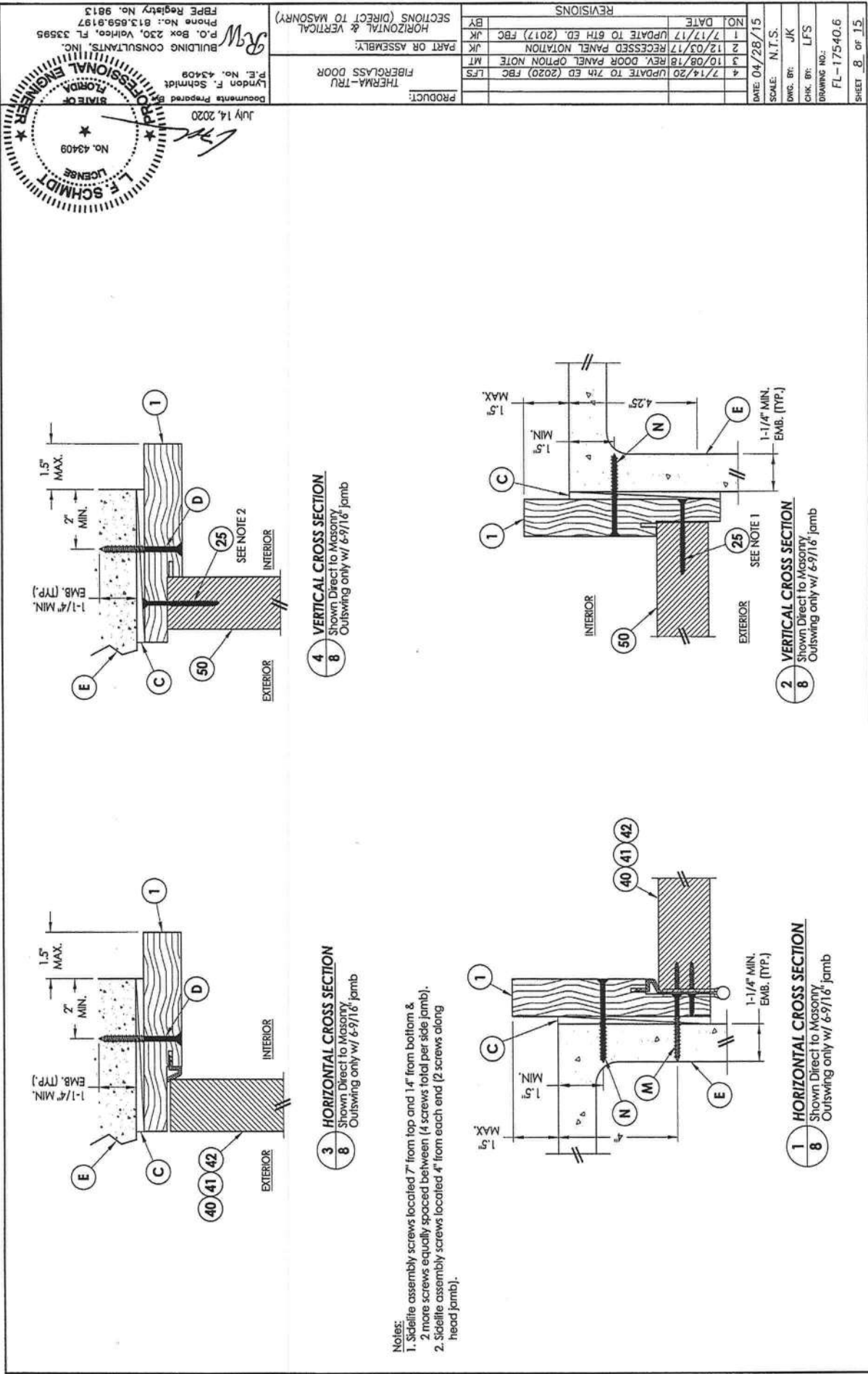


2 **HORIZONTAL CROSS SECTION**
7 Shown w/ 1X sub-buck
 Outswing shown (Inswing similar)

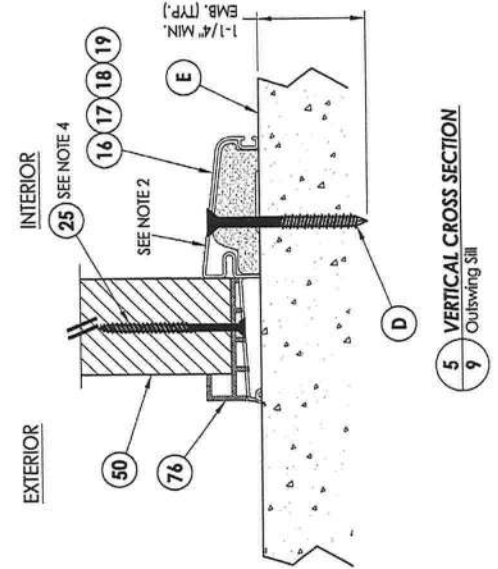
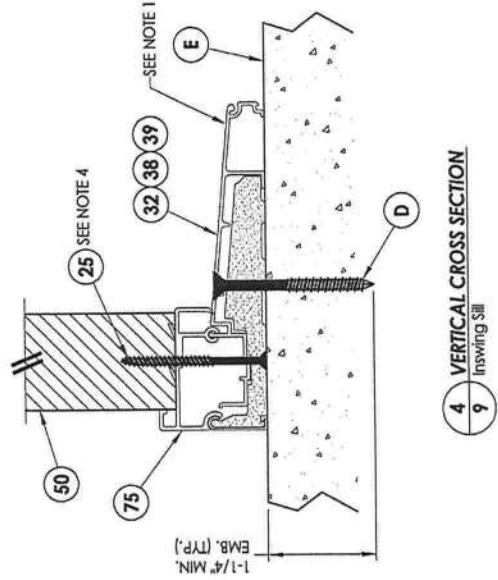
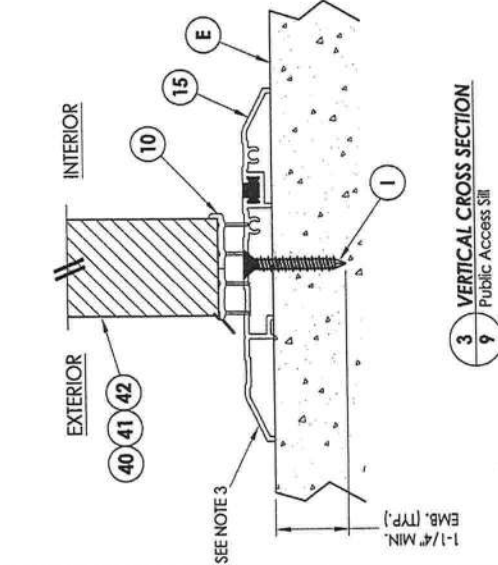
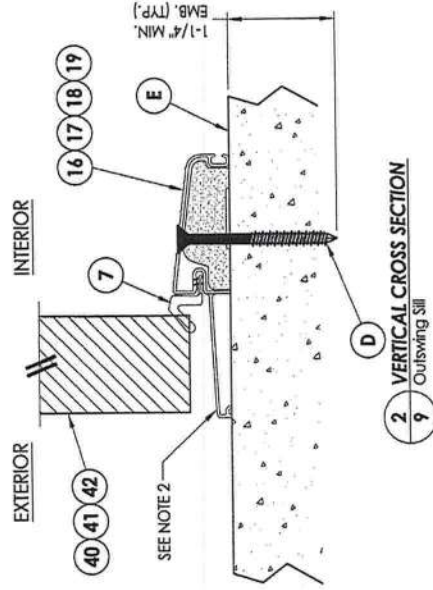
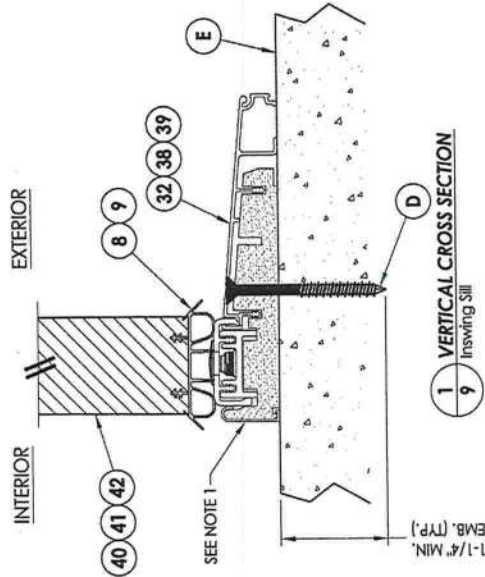


Notes:

1. Sidelite assembly screws located 7" from top and 14" from bottom & 2 more screws equally spaced between (4 screws total per side jamb).
2. Sidelite assembly screws located 4" from each end (2 screws along head jamb).



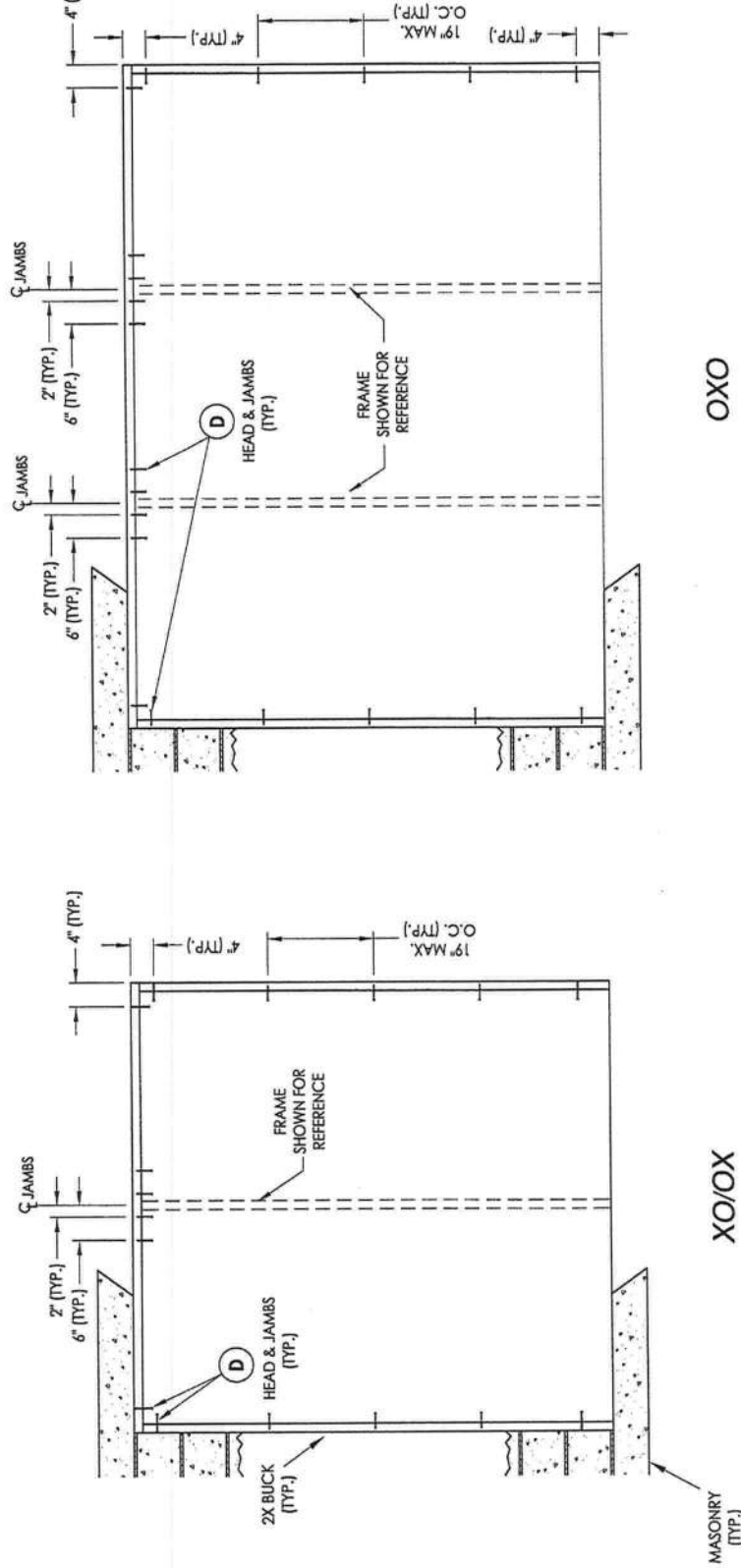
- Notes:
- Sill Item #s 32, 38 & 39 are attached to jambs w/ (3) #8 X 2-1/2" phs screws or (3) 2.5" staples at each end.
 - Sill Item #s 16, 17, 18 & 19 are attached to jambs w/ (2) #8 X 2-1/2" phs screws at each end.
 - Sill Item #15 is attached to jambs utilizing (2) #10 X 2" pph SMS at each end.
 - Sidelite assembly screws located 4" from each end (2 screws along Sill).



REVISIONS NO. DATE 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC 2 12/03/17 RECESSED PANEL NOTATION 3 10/08/18 REV. DOOR PANEL OPTION NOTE 4 7/14/20 UPDATE TO 7th ED (2020) FBC		PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: VERTICAL CROSS SECTIONS (THRESHOLDS)	
DATE: 04/28/15	SCALE: N.T.S.	DWG. BY: JK	CHECK BY: LFS
DRAWING NO.: FL-17540.6		SHEET 9 OF 15	

BUILDING CONSULTANTS, INC.
 P.O. Box 230, Valrico, FL 33595
 Phone No.: 813.659.9197
 FBE Registry No. 9813
 July 14, 2020
 Documents Prepared By:
 Lyndon F. Schmidt
 P.E. No. 43409
 L.F. SCHMIDT
 No. 43409
 FLORIDA
 PROFESSIONAL ENGINEER

2X BUCK ANCHORING



DATE: 04/28/15 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-17540.6 SHEET 10 of 15		NO. DATE 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC JK 2 12/03/17 RECESSED PANEL NOTATION JK 3 10/08/18 REV. DOOR PANEL OPTION NOTE MT 4 7/14/20 UPDATE TO 7th ED (2020) FBC LFS	
PRODUCT: THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY: BUCK ANCHORING		REVISIONS	

Documents Prepared By: Lyndon F. Schmidt
 P.E. No. 43409
 BUILDING CONSULTANTS, INC.
 P.O. Box 230, Vero Beach, FL 33595
 Phone No.: 813.659.9197
 FBPE Registry No. 9813



July 14, 2020

DATE: 04/28/15		SCALE: N.T.S.	DWG. BY: JK	CHK. BY: LFS	DRAWING NO: FL-17540.6	SHEET 11 of 15
4	7/14/20	UPDATE TO 7th ED (2020) FBC				
3	10/08/18	REV. DOOR PANEL OPTION NOTE				
2	12/03/17	RECEIVED PANEL NOTATION				
1	7/17/17	UPDATE TO 6TH ED (2017) FBC				
JK						
BY						
REVISIONS						

FRAME ANCHORING

ASSEMBLY:

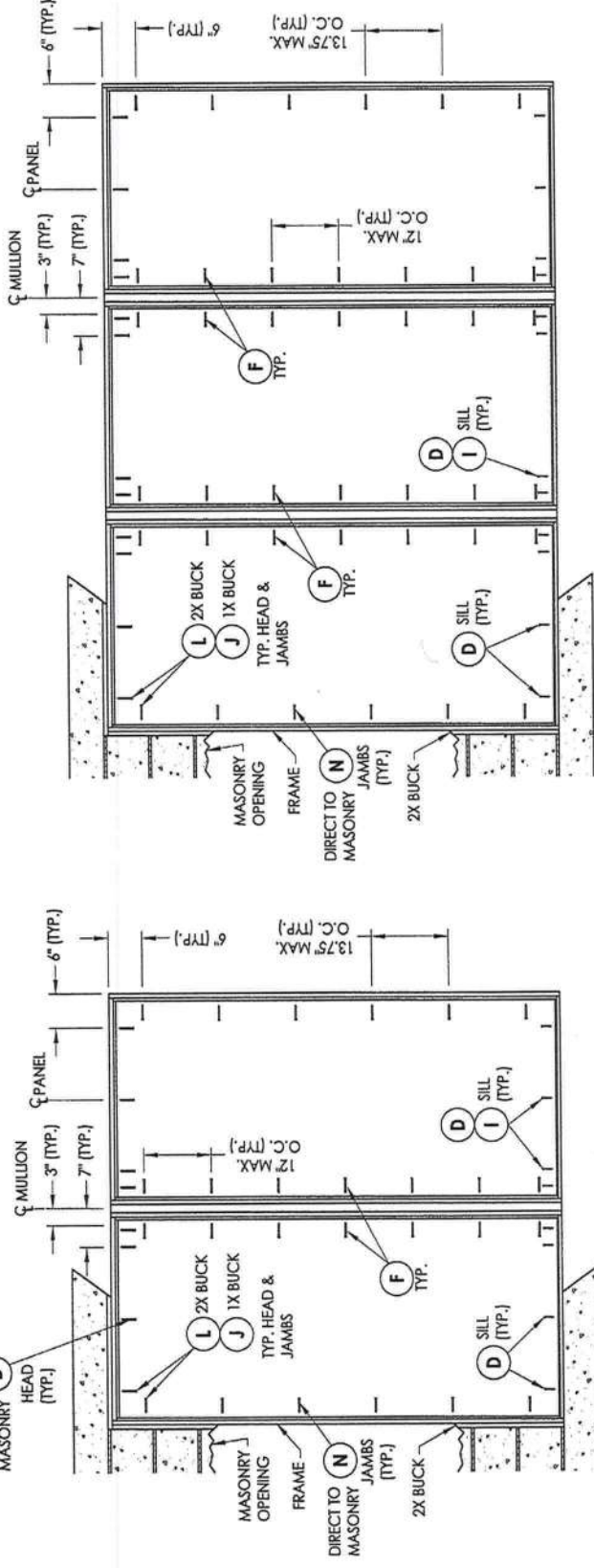
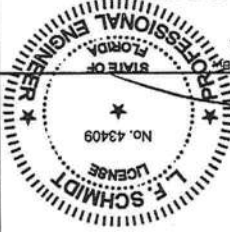
FIBERGLASS DOOR

DUCT:

July 14, 2020

Documents Prepared by
Lyndon F. Schmidt
P.E. No. 43409

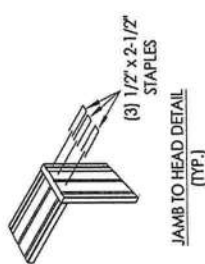
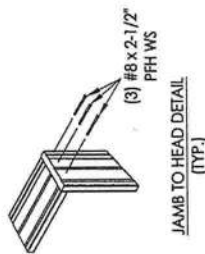
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

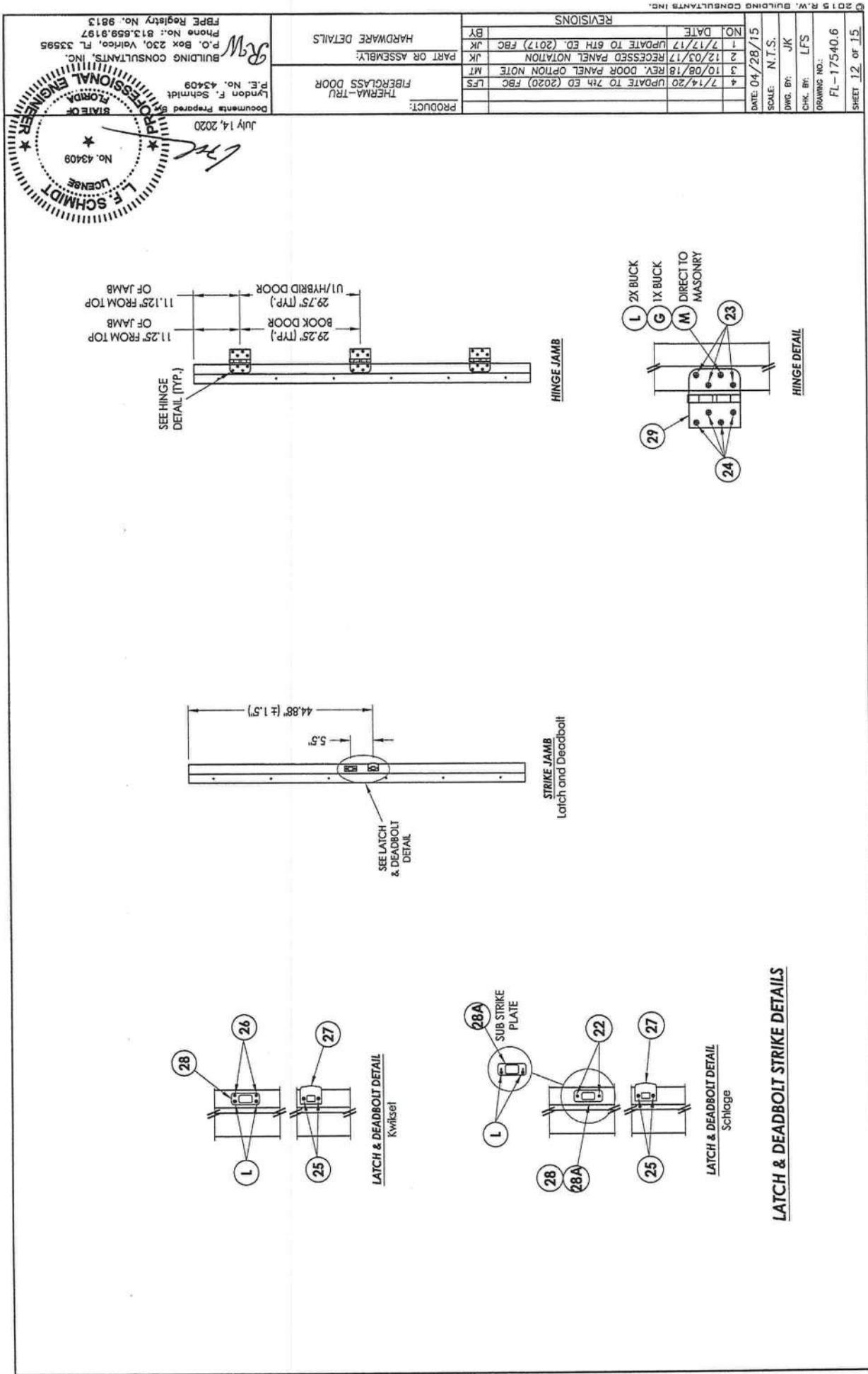


OXO

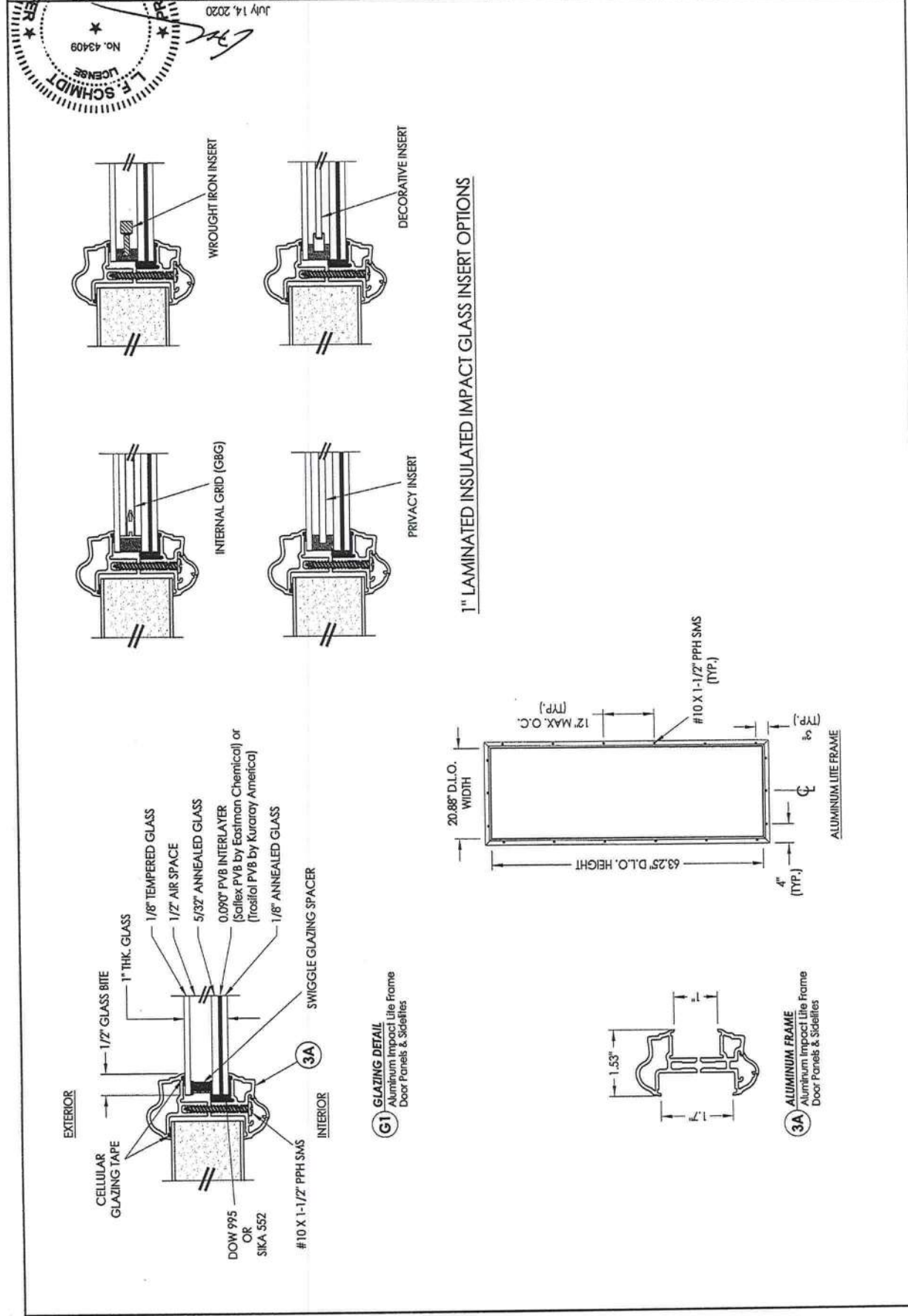
XO/OX

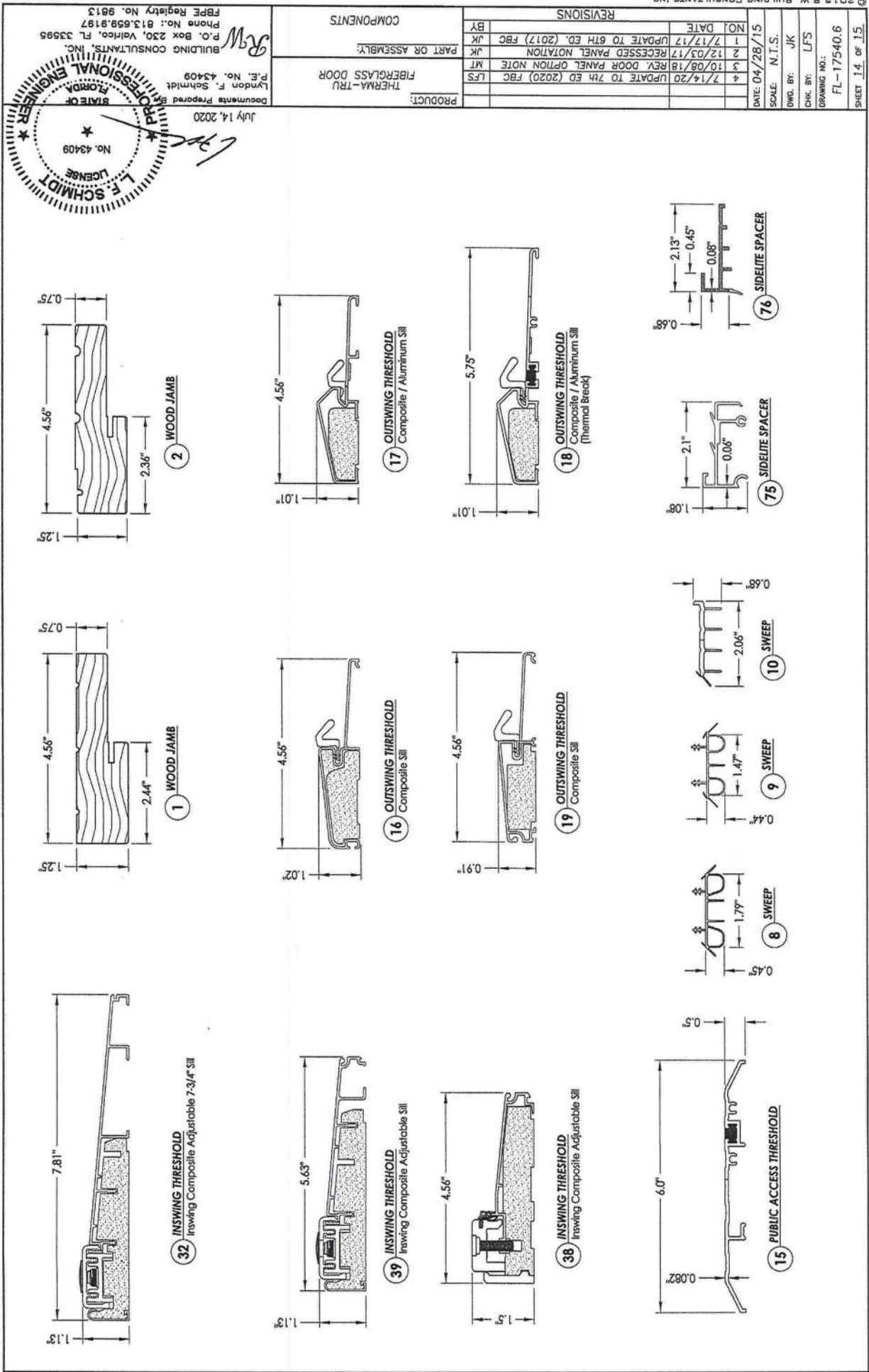
FRAME ANCHORING





BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		REVISIONS NO. DATE 1 7/17/17 UPDATE TO 6TH ED. (2017) FBC 2 12/03/17 RECESSED PANEL NOTATION 3 10/08/18 REV. DOOR PANEL OPTION NOTE 4 7/14/20 UPDATE TO 7TH ED (2020) FBC	
THERMA-TRU FIBERGLASS DOOR PART OR ASSEMBLY:		DATE: 04/28/15 SCALE: N.T.S. DWG. BY: JK CHK. BY: LFS DRAWING NO.: FL-17540.6 SHEET 13 OF 15	
PRODUCTS:		BY:	





Professional Engineer
L. F. SCHMIDT
No. 43409
FLORIDA
BUILDING CONSULTANTS, INC.
P.O. Box 230, Vero Beach, FL 33565
Phone No.: 813.659.9197
FBPE Registry No. 9813

ITEM #

DESCRIPTION

MATERIAL

ITEM #

DESCRIPTION

MATERIAL

A

1X BUCK [SG >= 0.42]

WOOD

B

2X BUCK [SG >= 0.42]

WOOD

C

1/4" MAX. SHIM SPACE

-

D

1/4" X 2-3/4" PPH ELCO OR ITW CONCRETE SCREW

STEEL

E

MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90

CONCRETE

F

#10 X 2" PPH WOOD SCREW

STEEL

G

3/16" X 3-1/4" ITW CONCRETE SCREW

STEEL

I

1/4" X 1-3/4" PPH ELCO OR ITW CONCRETE SCREW

STEEL

J

1/4" X 3-3/4" PPH ELCO OR ITW CONCRETE SCREW

STEEL

K

1/2" X 1" X 25 GA. CORRUGATED FASTENER

STEEL

L

#10 X 2-1/2" PPH WOOD SCREW (1.15" MIN. EMBEDMENT)

STEEL

M

3/16" X 2-1/4" ITW CONCRETE SCREW

STEEL

N

3/16" X 2-3/4" ITW CONCRETE SCREW

STEEL

X

2X MULLION

WOOD

1

JAMB (FINGER JOINT PINE)

WOOD

2

JAMB (FINGER JOINT PINE)

WOOD

6

WEATHERSTRIP (MEDIUM REACH)

WOOD

7

WEATHERSTRIP (LONG REACH)

FOAM

8

SWEEP

FOAM

9

SWEEP (USE w/ MODERATE CLIMATE THRESHOLD)

VINYL

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

OUTSWING THRESHOLD

ALUM/COMP

22

#8 x 3/4" PPH WOOD SCREW

STEEL

23

#10 x 3/4" PPH WOOD SCREW

STEEL

24

#10 x 1" PPH WOOD SCREW

STEEL

BILL OF MATERIALS

ITEM #

DESCRIPTION

MATERIAL

25

#8 x 2-1/2" PPH WOOD SCREW

STEEL

26

#8 x 5/8" PPH WOOD SCREW

STEEL

27

LATCH STRIKE PLATE

STEEL

28

DEADBOLT STRIKE PLATE

STEEL

28A

DEADBOLT SUB STRIKE PLATE

STEEL

29

4" X 4" HINGE

STEEL

32

INSWING THRESHOLD

ALUM/COMP

34

INTERIOR MULL CASING

WOOD

35

EXTERIOR MULL CASING

WOOD

38

INSWING THRESHOLD

ALUM/COMP

39

INSWING THRESHOLD

ALUM/COMP

40

DOOR PANEL (BOOK)

-

41

DOOR PANEL (HYBRID)

-

42

DOOR PANEL (UI)

-

50

SIDELITE

-

75

SIDELITE SPACER (INSWING)

PVC

76

SIDELITE SPACER [OUTSWING]

PVC

REVISIONS

NO.

DATE

BY

1

7/17/17

UPDATE TO 6TH ED. (2017) FBC

JK

2

12/03/17

RECEIVED PANEL NOTATION

JK

3

10/08/18

REV. DOOR PANEL OPTION NOTE

MT

4

7/14/20

UPDATE TO 7TH ED (2020) FBC

LFS

PRODUCT:

THERMA-TRU

FIBERGLASS DOOR

PART OR ASSEMBLY:

BILL OF MATERIALS

DATE: 04/28/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-17540.6

SHEET 15 OF 15

STATE OF FLORIDA

PROFESSIONAL ENGINEER

NO. 43409

L.F. SCHMIDT

July 14, 2020

Documents Prepared By: Lyndon F. Schmidt

P.E. No. 43409

BUILDING CONSULTANTS, INC.

P.O. Box 230, Vero Beach, FL 33595

Phone No.: 813.658.8187

FBPE Registry No. 9813

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"
ELCO ULTRACON®	1/4"	1-1/4"	1"	4"
ITW TAPCON®	3/16"	1-1/4"	AS SHOWN	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.

R:\Clients\Therma Tru PERMANENT\A - Florida Product Approval\FI-17540 ThermaTru Benchmark WBDRC - Drawings\FBC (2020)\FI-17540.5-8.dwg, 15.2