

Z:\2023 FBC Drawings\MasterGrain\FL-21852 R10\FL-21852.6.dwg

FIBERGLASS GLAZED

SINGLE DOOR

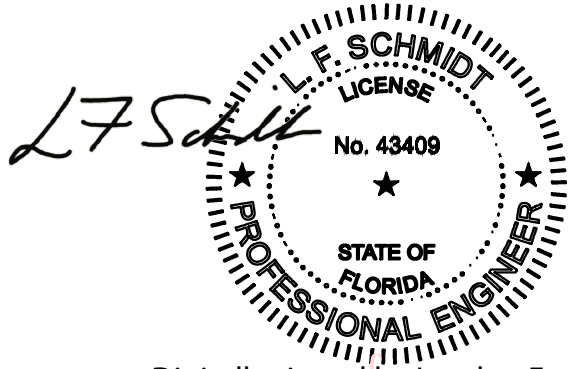
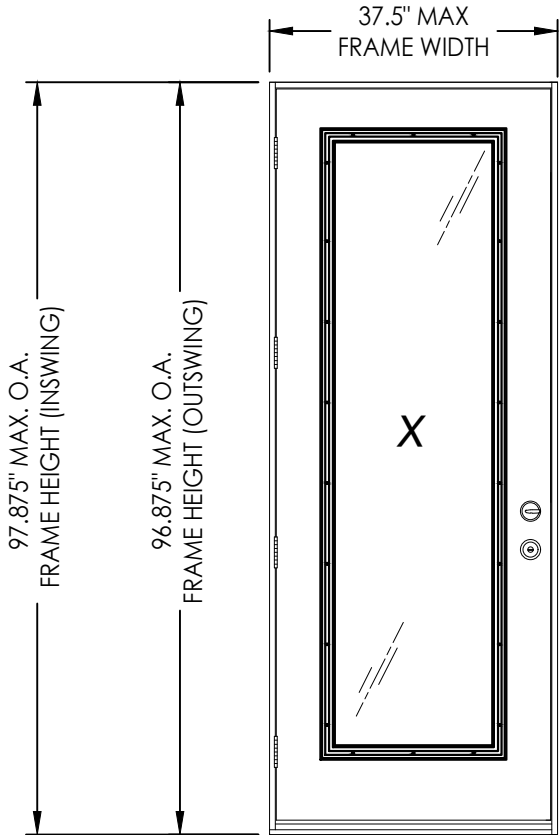
INSWING/OUTSWING

"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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.
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.

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+50.0	-55.0	+50.0	-50.0



Digitally signed by Lyndon F Schmidt
Date: 2026.07.22 17:04:04 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

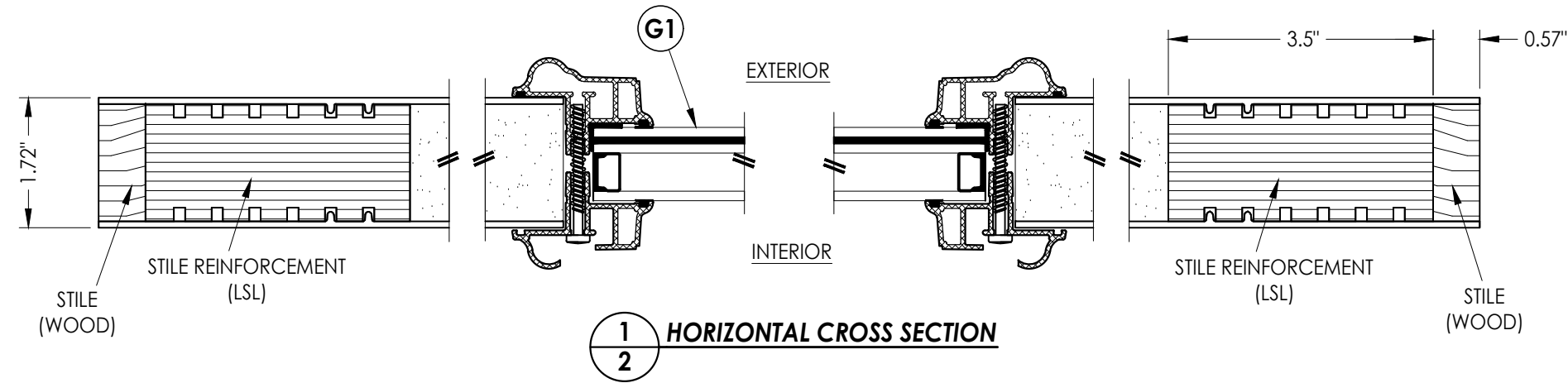
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical Elevations, Design Pressures & General Notes
2	Door Panel Details
3	Elevation
4	Horizontal & Vertical Cross Sections (2X Buck)
5	Horizontal & Vertical Cross Sections (1X Buck)
6	Vertical Cross Sections (Thresholds)
7	Buck & Frame Anchoring
8	Hardware Details
9	Bill of Materials & Components

PRODUCT:		MASTERGRAIN FIBERGLASS DOOR		
PART OR ASSEMBLY:		TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES		
		UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/01/26	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/01/23	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	7/08/20	UPDATE TO 6TH ED. (2017)	FBC	JK
1	10/03/17			BY
NO.	DATE	REVISIONS		
DATE: 02/09/17				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-21852.6				
SHEET 1 OF 9				

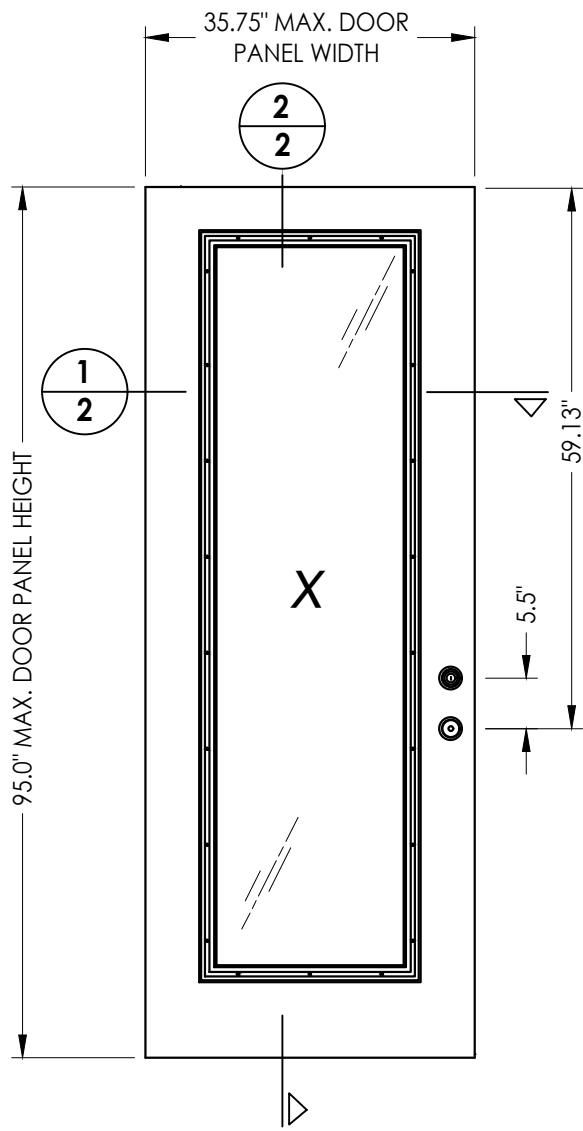
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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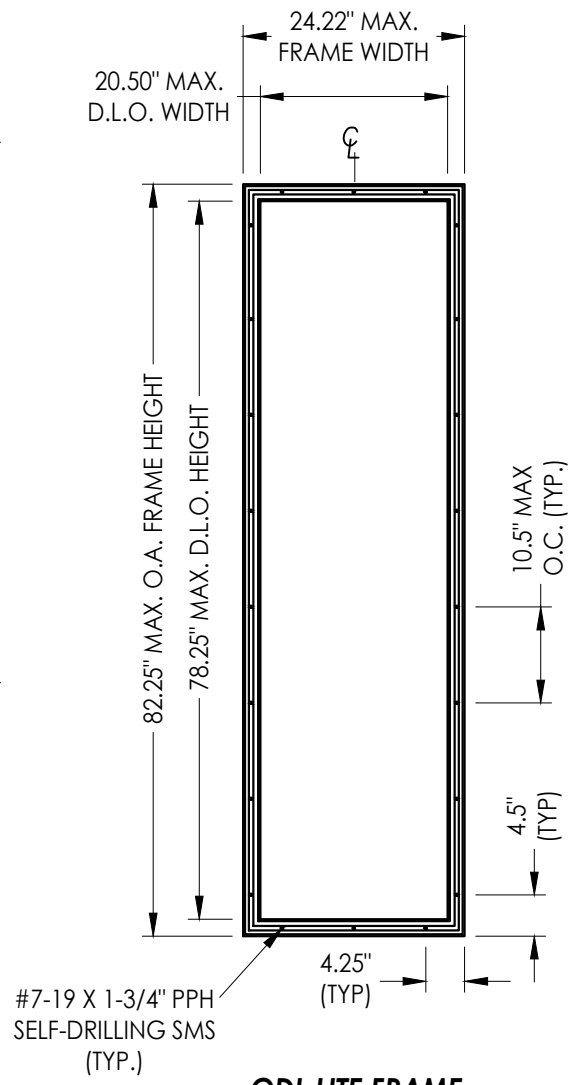


1
2 **HORIZONTAL CROSS SECTION**

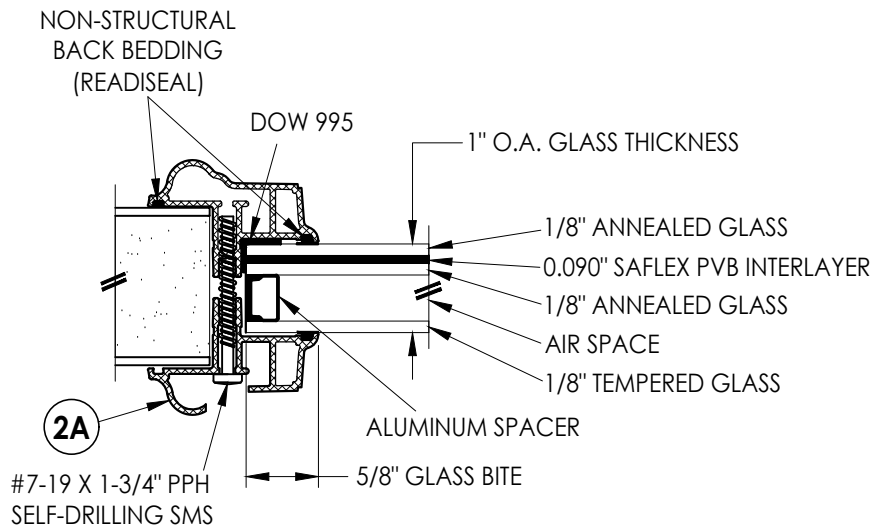


40 **DOOR PANEL**
Mastergrain

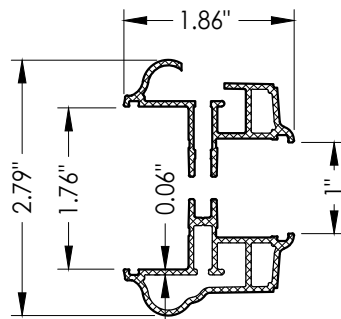
FIBERGLASS DOOR SKIN: 0.095" MIN. THK.
FOAM CORE: POLYURETHANE - 1.9 PCF MIN.



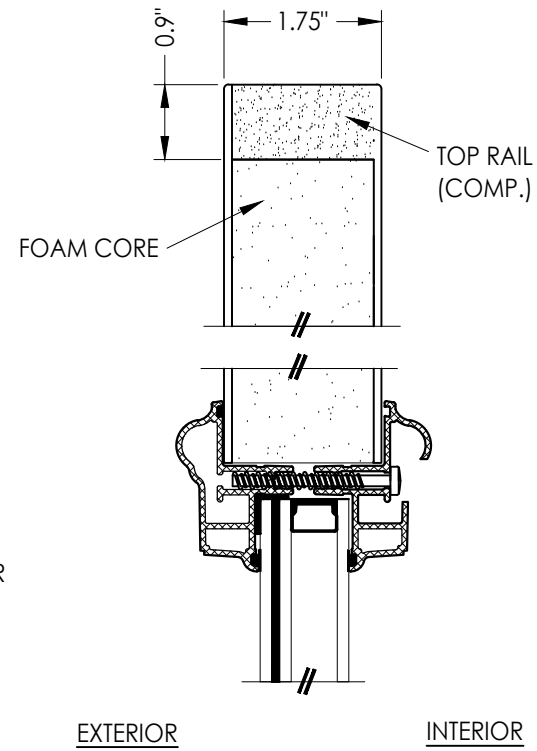
ODL LITE FRAME



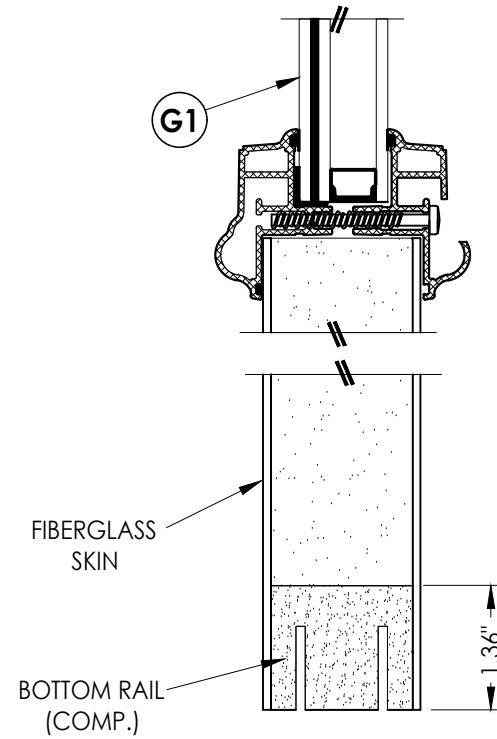
G1 **GLAZING DETAIL**



2A **ODL LITE FRAME**
Aluminum



EXTERIOR INTERIOR



2
2 **VERTICAL CROSS SECTION**

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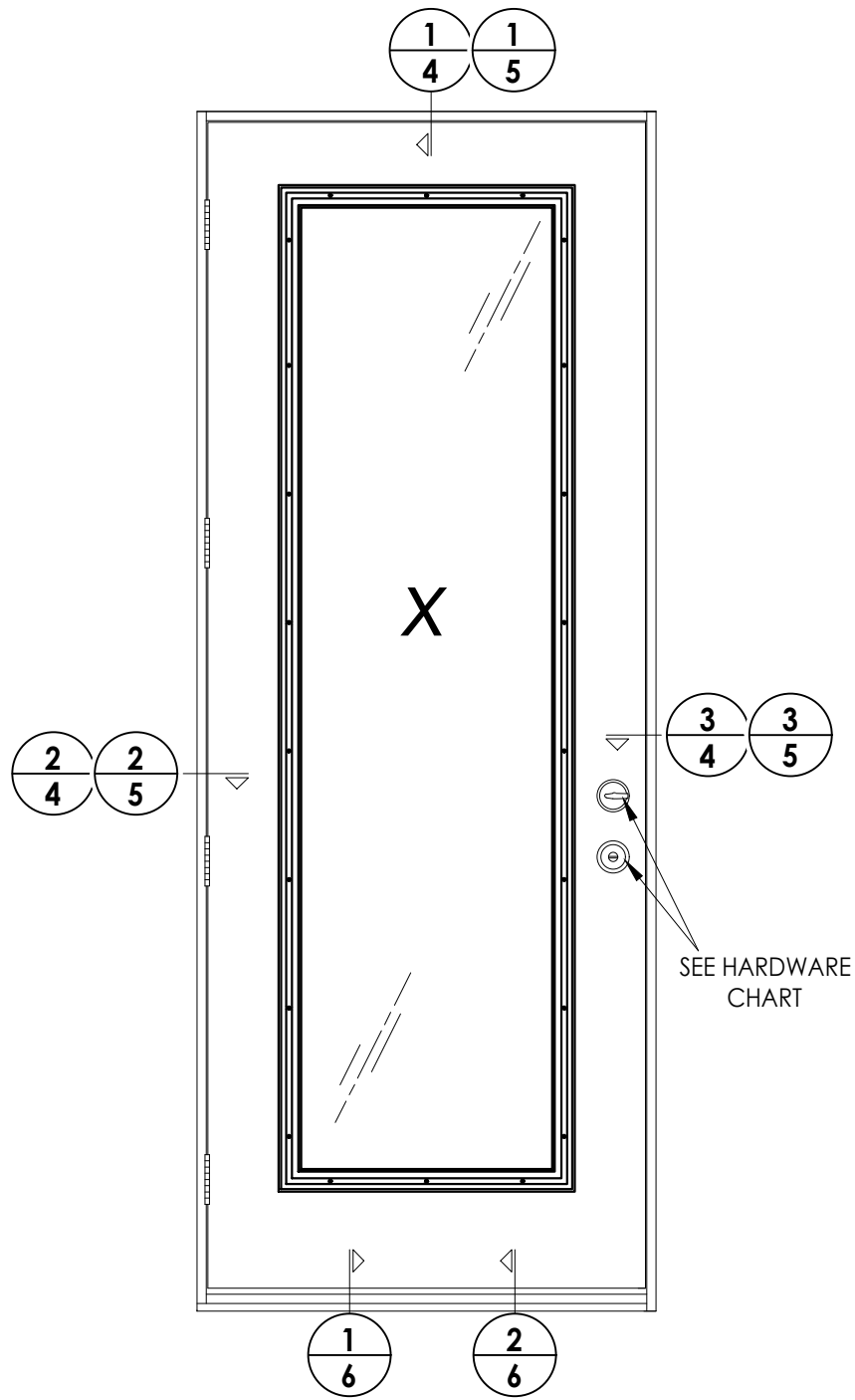
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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.6
SHEET	2 OF 9



HARDWARE TABLE	
MANUFACTURER	MODEL
PAMEX	KNOB: FLU600 DEADBOLT: FD261
KWIKSET	KNOB: SIGNATURE SERIES DEADBOLT: SIGNATURE SERIES (980)
SCHLAGE	KNOB: F51 DEADBOLT: B60N
HOPPE	MULTIPOINT: HLS™ ONE (3 pt. Manual Tongue)

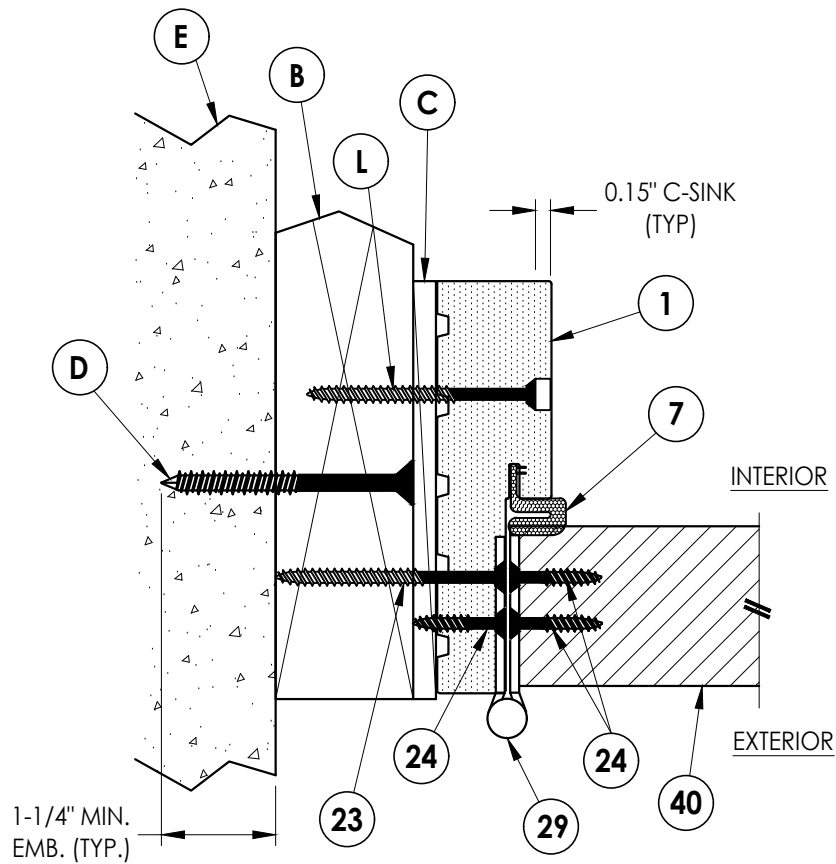
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PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

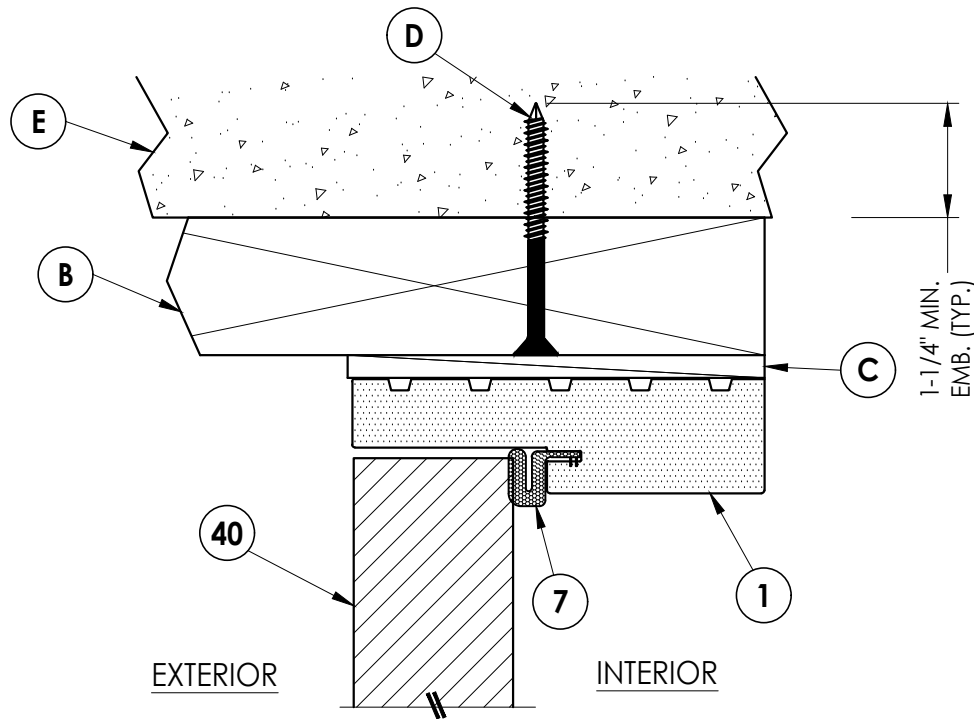
PART OR ASSEMBLY: ELEVATION

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FBPE Registry No. 9813

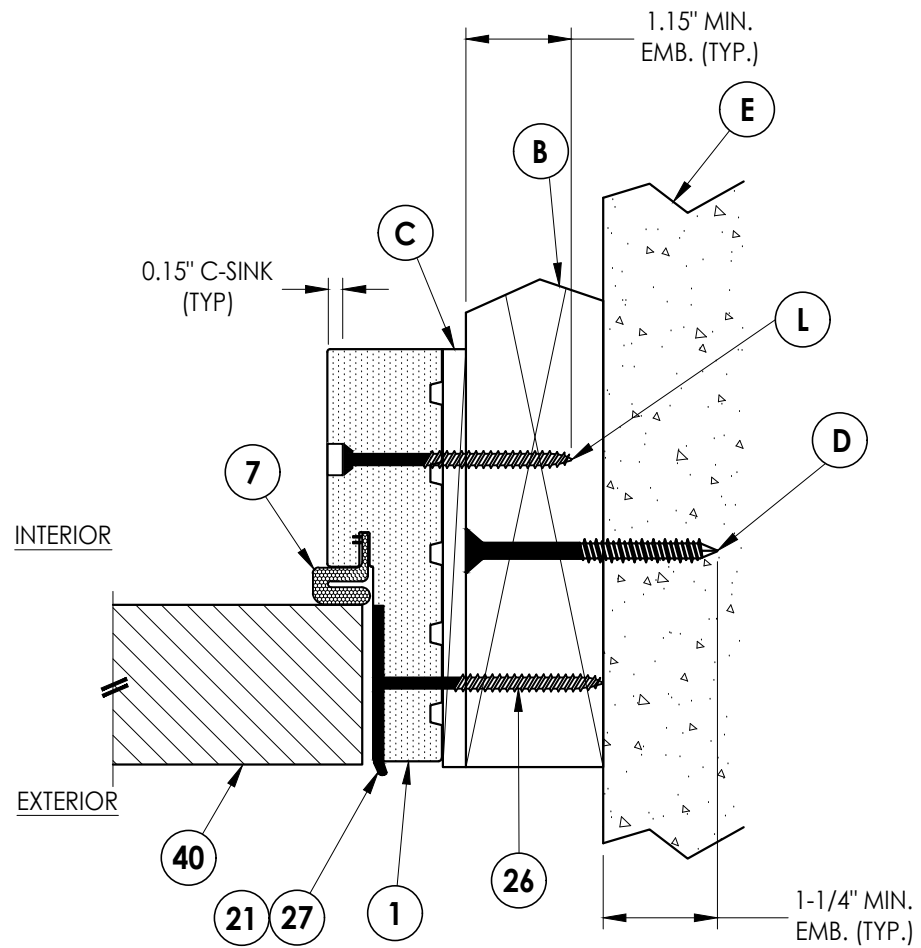
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2 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (Inswing similar)



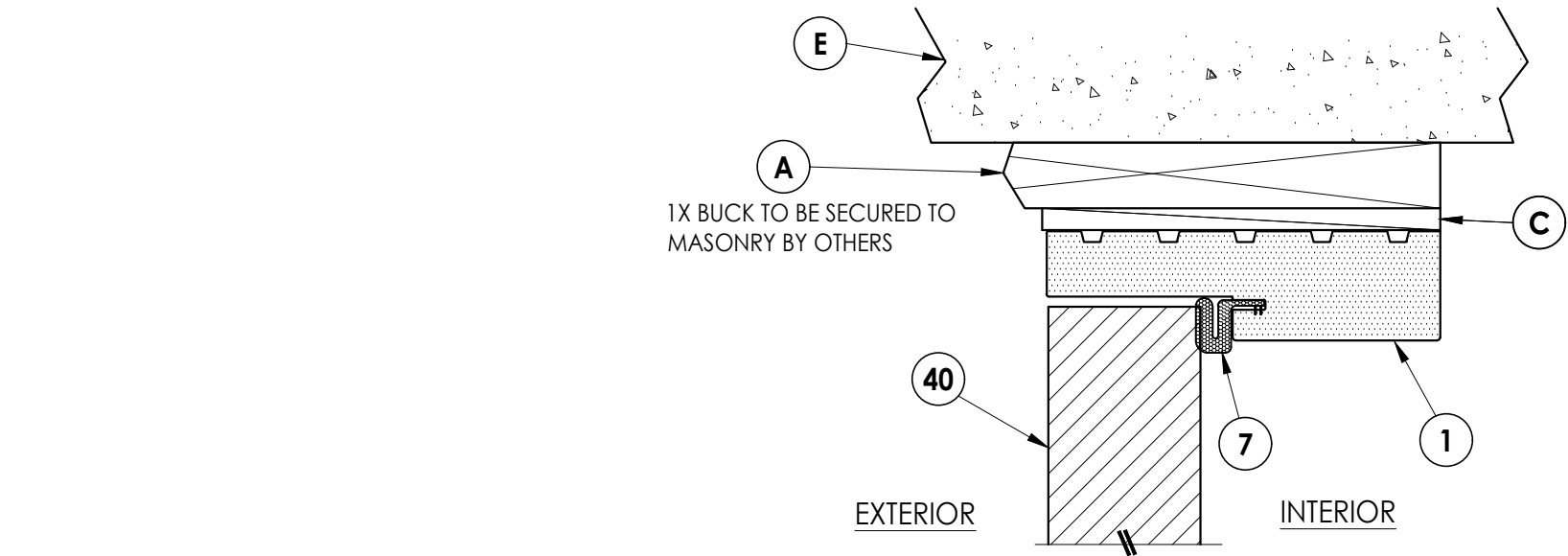
1 VERTICAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (Inswing similar)



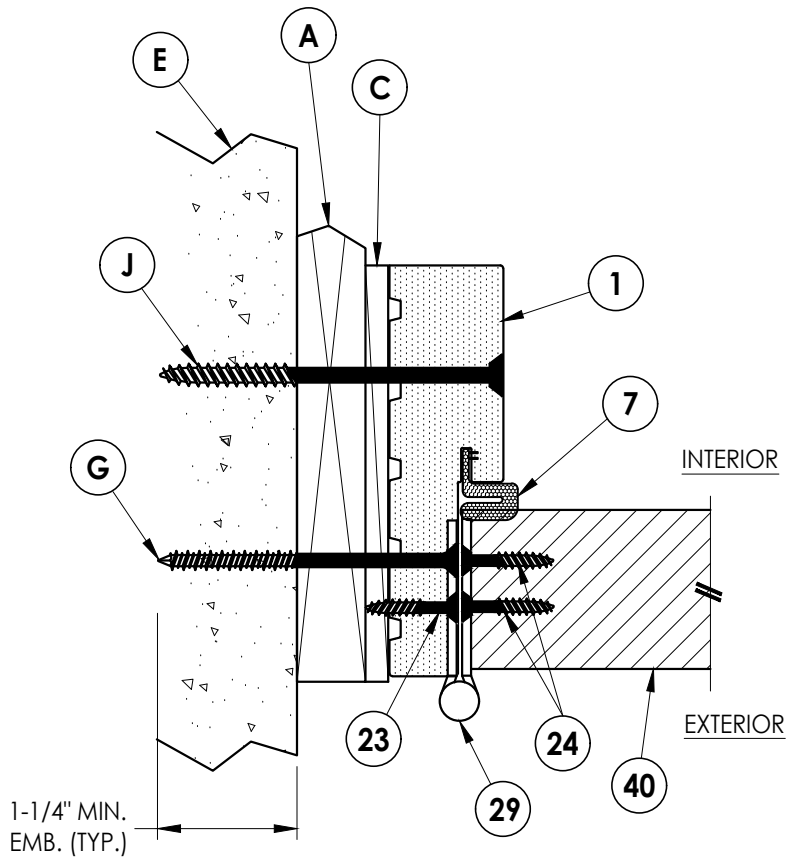
3 HORIZONTAL CROSS SECTION
Shown w/ 2X Buck
Outswing shown (Inswing similar)

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: MASTERGRAIN FIBERGLASS DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS (2X BUCK)		
4	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
3	7/01/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
2	7/08/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
1	10/03/17	UPDATE TO 6TH ED. (2017)	FBC	JK
NO.	DATE			BY
REVISIONS				
DATE: 02/09/17				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-21852.6				
SHEET 4 OF 9				

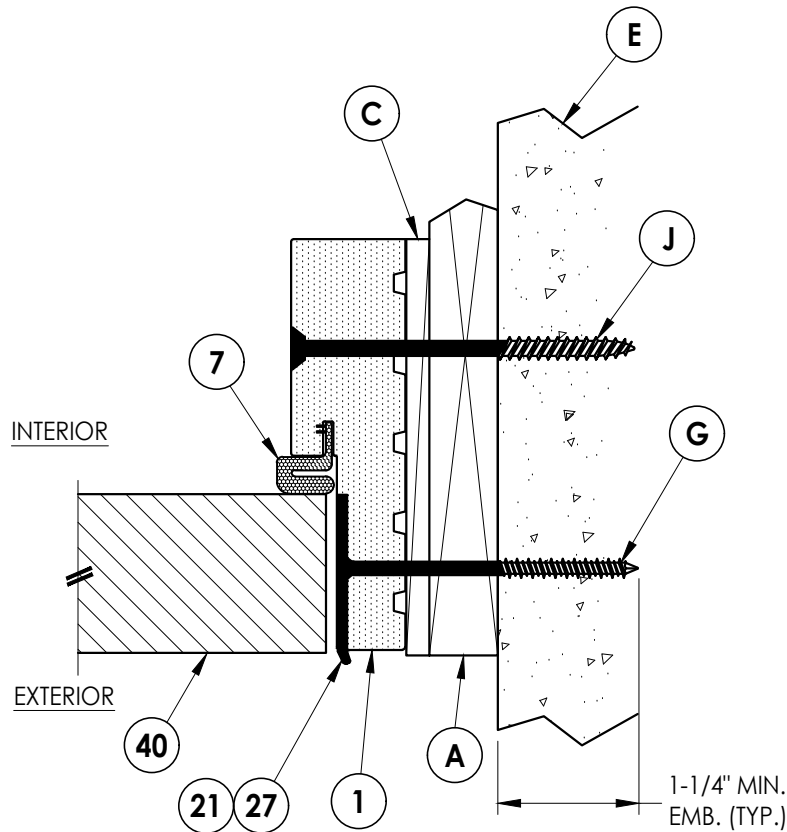
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1 5 VERTICAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



2 5 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)



3 5 HORIZONTAL CROSS SECTION
Shown w/ 1X sub-buck
Outswing shown (Inswing similar)

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PRODUCT:
MASTERGRAIN
FIBERGLASS DOOR

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

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
3	7/01/23	UPDATE TO 8TH ED. (2023) FBC LFS
2	7/08/20	UPDATE TO 7TH ED. (2020) FBC LFS
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC JK
NO.	DATE	BY
DATE:	02/09/17	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-21852.6	
SHEET	5	OF 9

2 **VERTICAL CROSS SECTION**
6 Outswing Sill

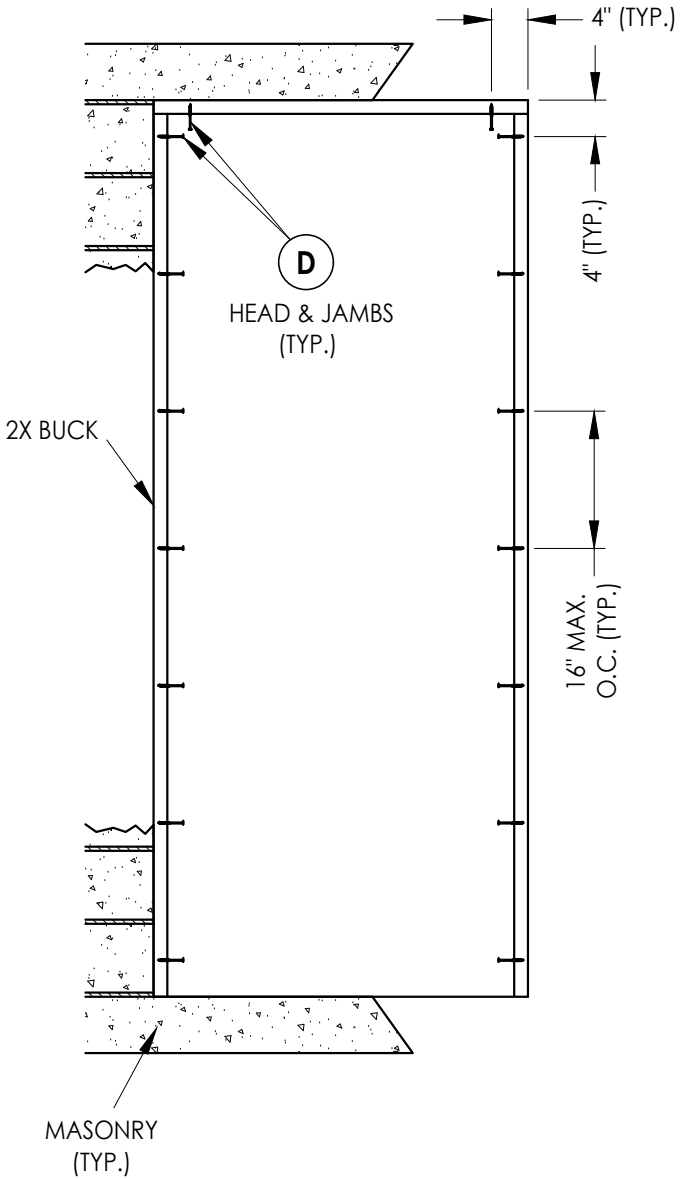
						LFS
						LFS
						LFS
						JK
						BY
REVISIONS						
DATE:	02/09/17					
SCALE:	N.T.S.					
DWG. BY:	JK					
CHK. BY:	LFS					
DRAWING NO.:	FL-21852.6					
SHEET	6	OF	9			

PRODUCT:	MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS (THRESHOLDS)

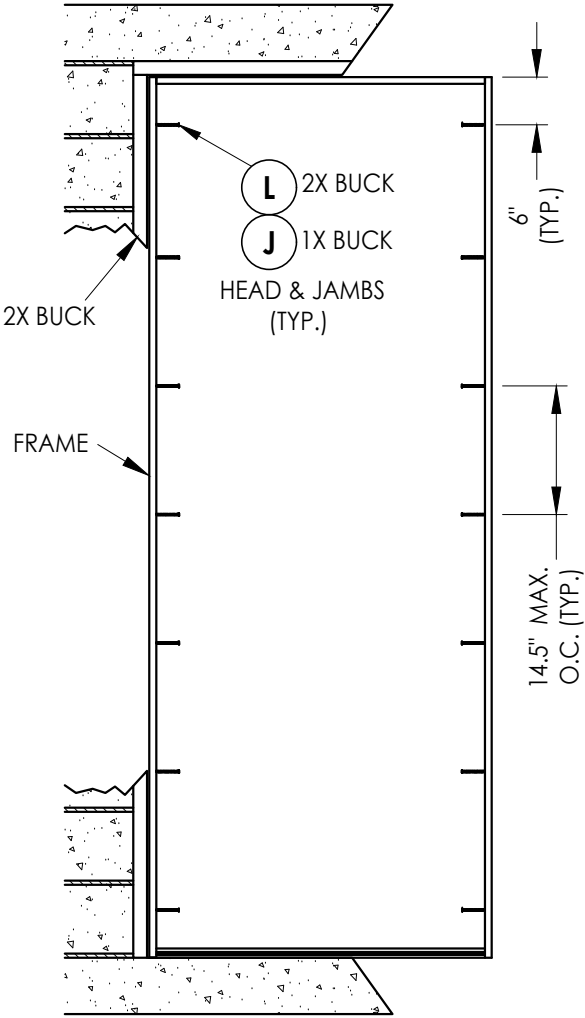
Documents Prepared By:
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NOTE:
1. ALL FRAME CORNERS SECURED WITH (3) #8 X 2-1/2" FH DEEP THREAD
WOOD SCREWS @ HEAD & SILL.



2X BUCK ANCHORING



FRAME ANCHORING

DATE:	02/09/17
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-21852.6
SHEET	7 OF 9

NO.	DATE	REVISIONS
4	7/01/26	UPDATE TO 9TH ED. (2026) FBC
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2	7/08/20	UPDATE TO 7TH ED. (2020) FBC
1	10/03/17	UPDATE TO 6TH ED. (2017) FBC
NO.	DATE	BY

PRODUCT:	MASTERGRAIN FIBERGLASS DOOR
PART OR ASSEMBLY:	BUCK & FRAME ANCHORING

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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BILL OF MATERIALS		
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" PFH 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
G	3/16" X 3-1/4" PFH ITW CONCRETE SCREW	STEEL
J	1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW	STEEL
L	#10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)	STEEL
1	COMPOSITE JAMB	COMP
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
13	INSWING ADJUSTABLE THRESHOLD	ALUM/COMP
14	OUTSWING BUMP THRESHOLD	ALUM/COMP
20	MULTIPOINT TONGUE STRIKE PLATE	STEEL
21	MULTIPOINT LATCH & DEADBOLT STRIKE PLATE	STEEL
23	#12 X 2-1/2" PFH WOOD SCREW	STEEL
24	#12 x 1" PFH WOOD SCREW	STEEL
26	#8 X 2-1/2" PFH WOOD SCREW	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4.5" X 4.5" HINGE	STEEL
40	DOOR PANEL	-

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
3. Concrete anchor table:

WOOD SCREW INSTALLATION NOTES:

-
- Technical drawing of a mechanical part with the following dimensions:
- Overall width: 4.56"
 - Overall height: 1.25"
 - Top surface profile: A series of rectangular notches with a total width of 0.406" and a depth of 0.5".
 - Bottom surface profile: A series of rectangular notches with a total width of 2.188" and a depth of 0.125".
 - Right side profile: A series of rectangular notches with a total width of 0.03" and a depth of 0.125".

Technical drawing of a mechanical assembly, likely a valve or actuator, showing dimensions in inches. The drawing includes a side view of the assembly mounted on a base. Key dimensions are labeled: a total width of 4.56", a distance of 1.56" from the left edge to the center of the actuator, and a height of 1.37" from the base to the top of the actuator housing.

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RV

PRODUCT: MASTERGRAIN
FIBERGLASS DOOR

R ASSEMBLY:
**BILL OF MATERIALS
& COMPONENTS**

4	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS
3	7/01/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
2	7/08/20	UPDATE TO 7TH ED.	(2020)	FBC	LFS
1	10/03/17	UPDATE TO 6TH ED.	(2017)	FBC	JK
NO.	DATE				BY
					REVISIONS

SHEET 9 OF 9