

Dunbarton
CORPORATION

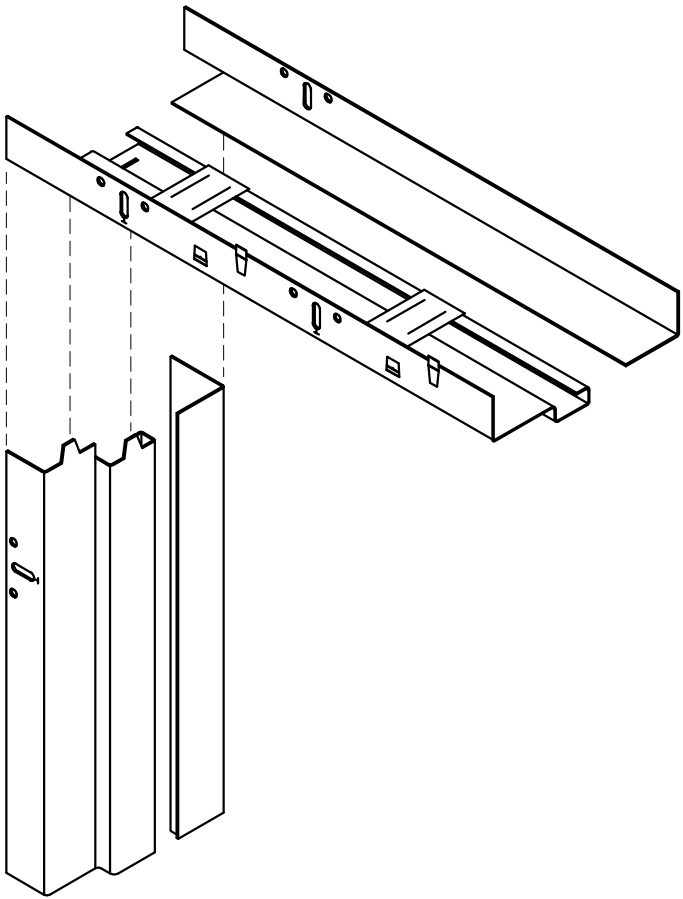
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"
TWO-PIECE STEEL FRAME SYSTEM
UTILIZING A
PLASTPRO OPAQUE FIBERGLASS DOOR PANEL
"IMPACT"

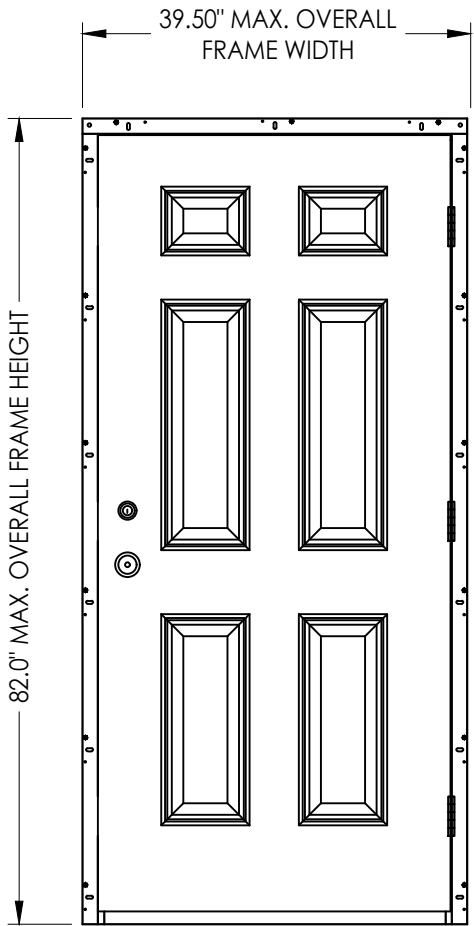
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in areas requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.1.
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.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Steel frame cross sections & details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck and frame anchoring
7	Bill of materials and components

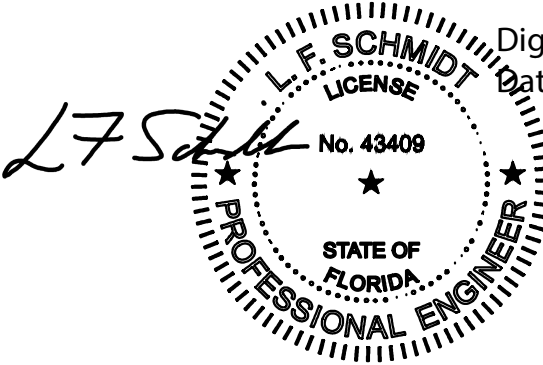


REDIFLEX TWO-PIECE



INSWING OR OUTSWING

OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
39.50" X 82.0"	+ 50.0	- 50.0



Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 12:05:06 -04'00'

This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

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

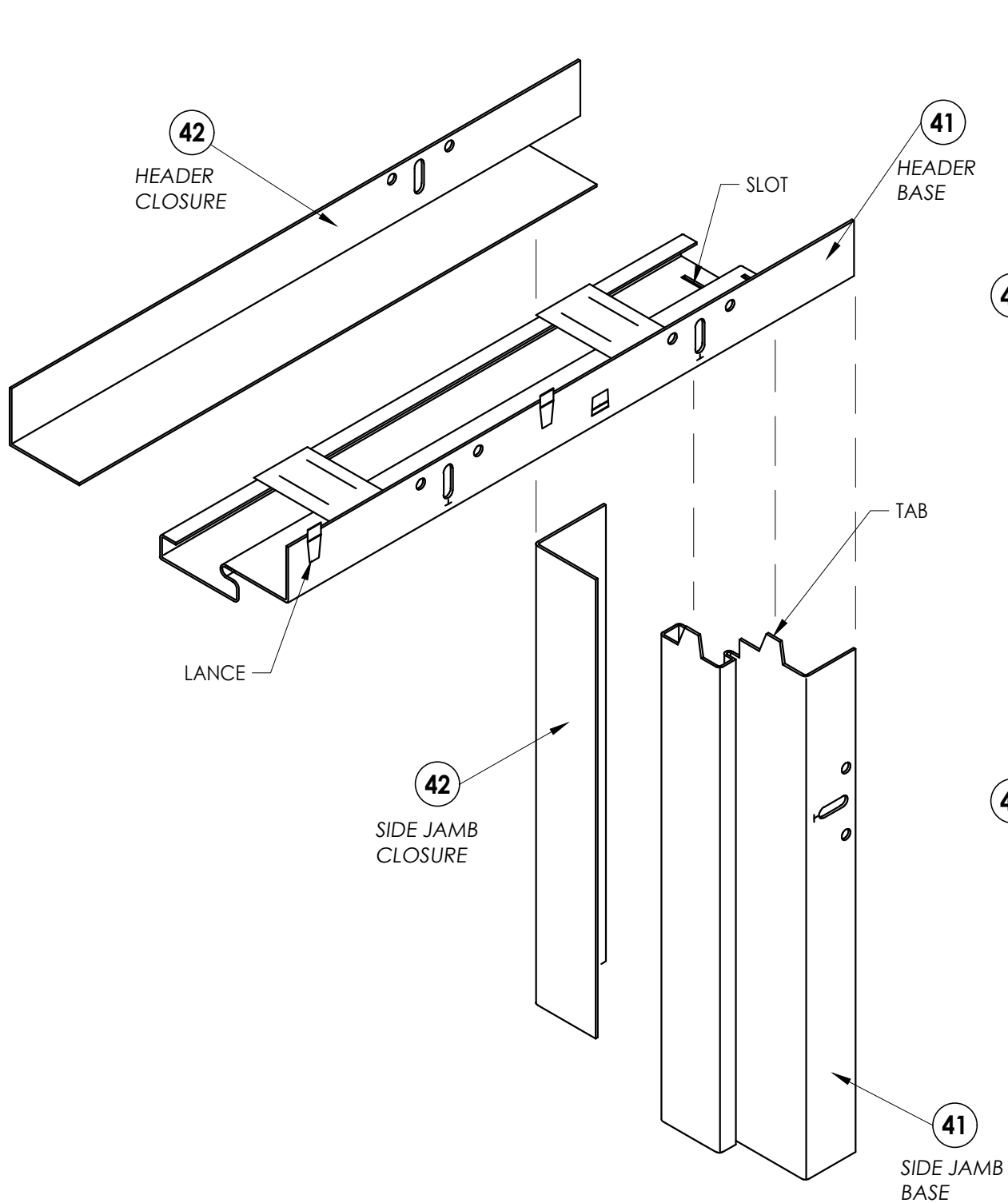
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME
PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS			
		DATE	BY	DESCRIPTION	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
2	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
1	9/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	

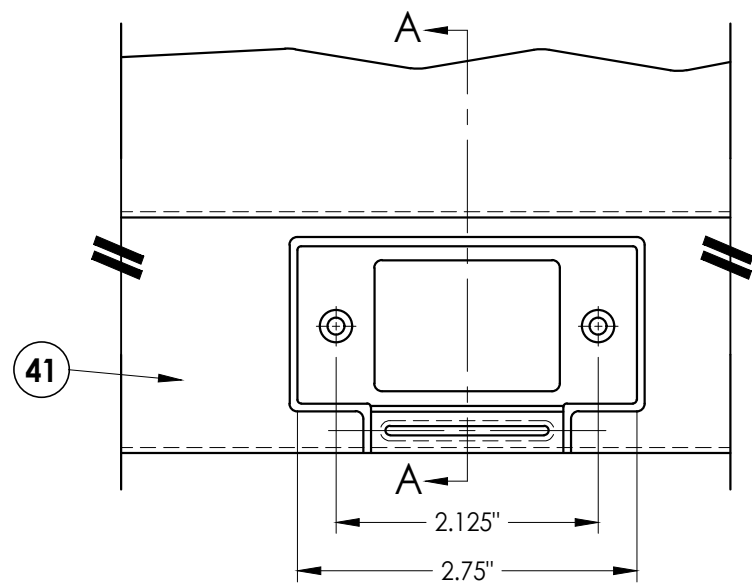
DATE: 3/30/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-15341.10
SHEET 1 OF 7

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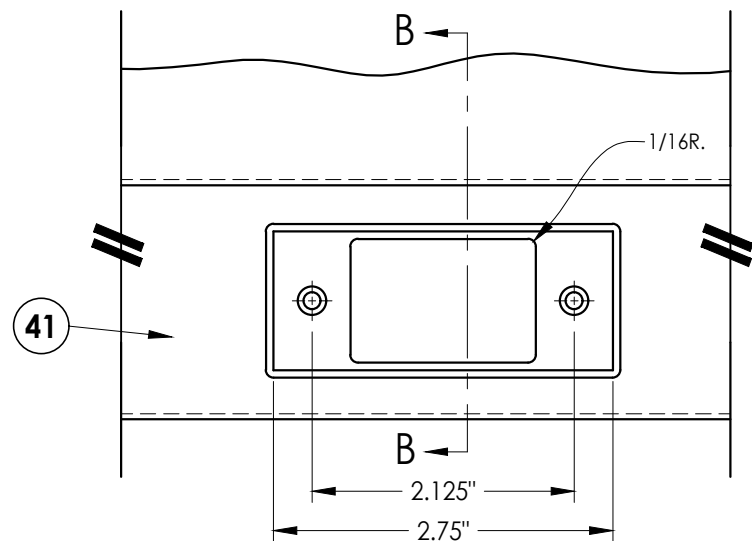


NOTES:

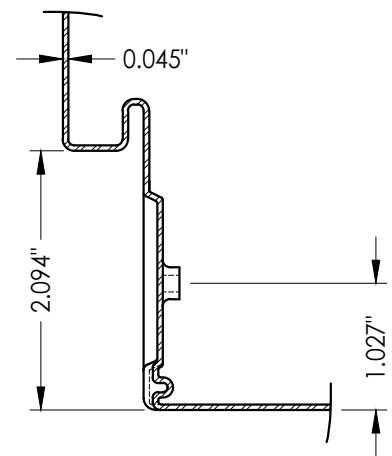
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 20 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAME DO NOT MEET AIR AND WATER CRITERIA.



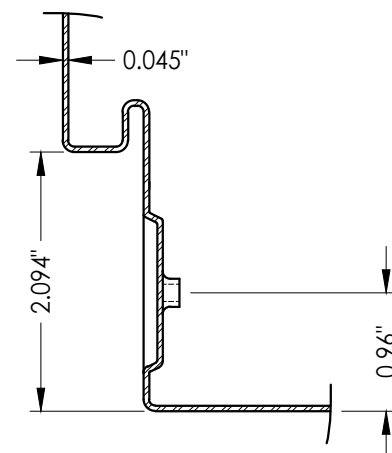
STRIKE AT LATCH



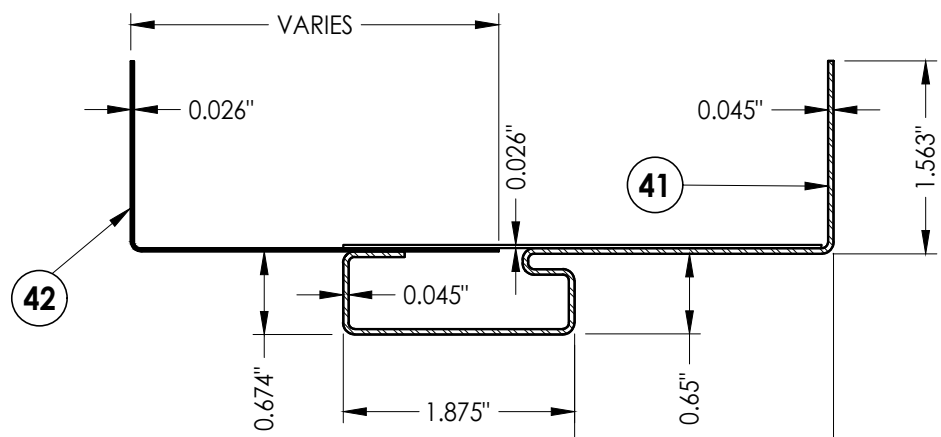
STRIKE AT DEADBOLT



SECTION A-A



SECTION B-B



REDIFLEX FRAME DETAIL

Documents Prepared By:
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PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
STEEL FRAME CROSS SECTIONS
& DETAILS

NO.	DATE	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
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DWG. BY: JK

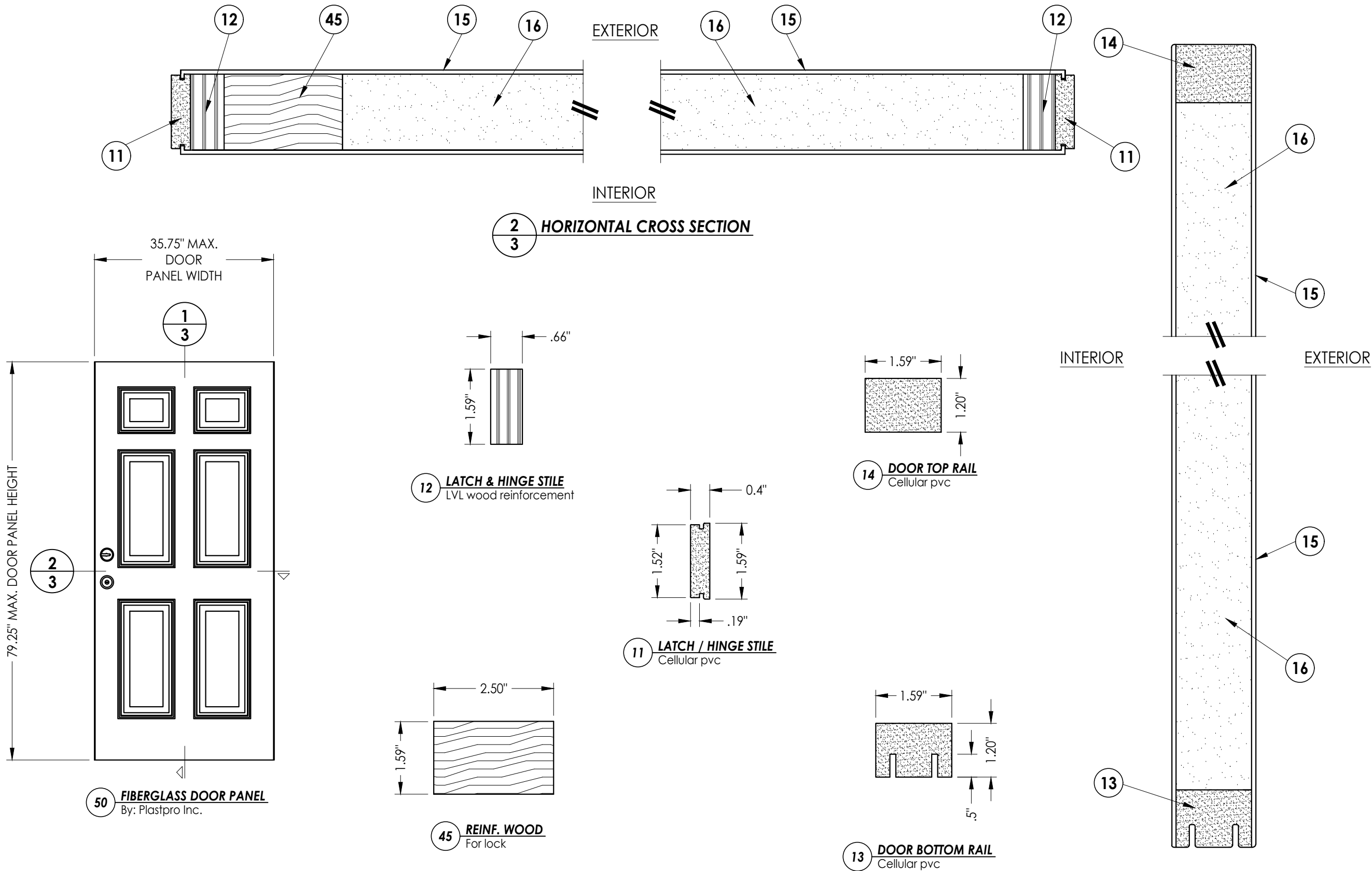
CHK. BY: LFS

DRAWING NO.:

FL-15341.10

SHEET 2 OF 7

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PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	REVISIONS
3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
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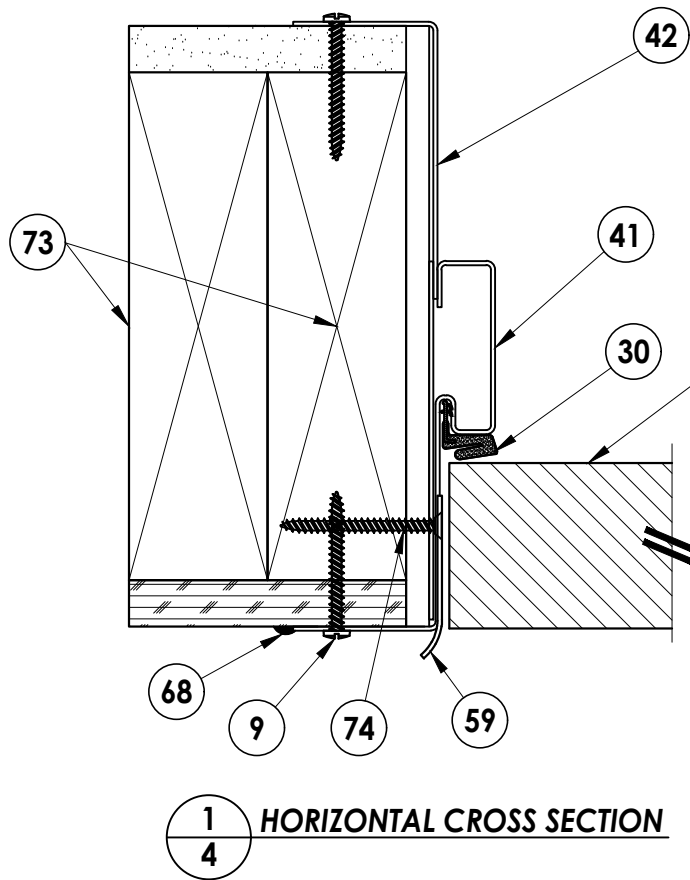
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CHK. BY: LFS

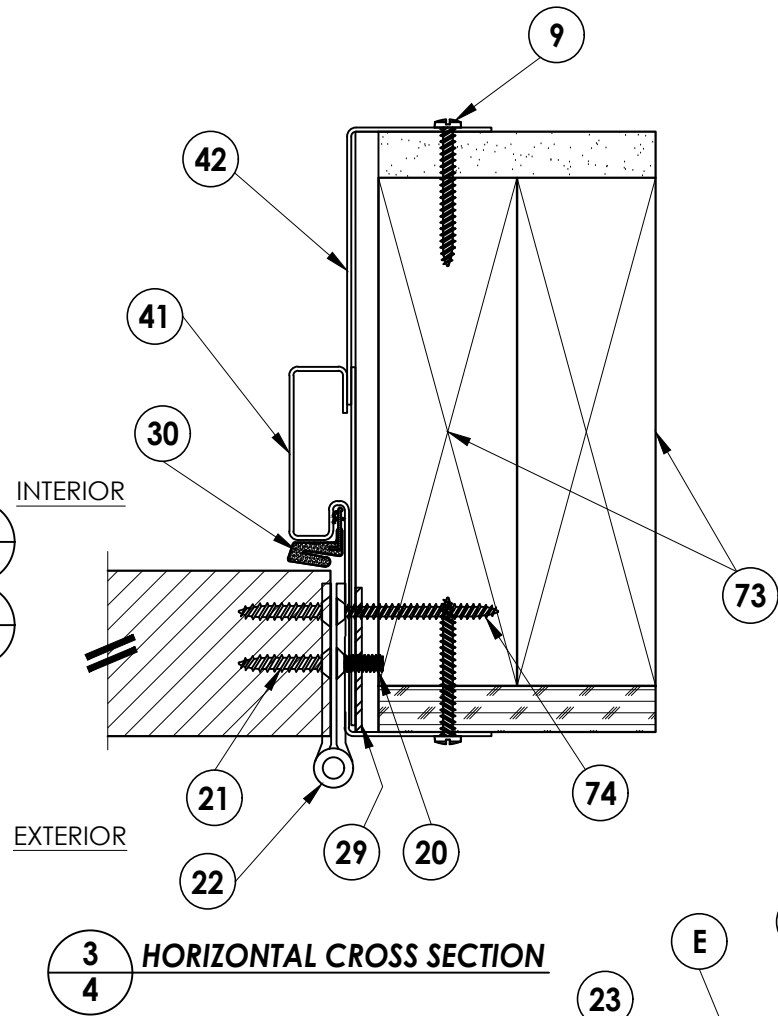
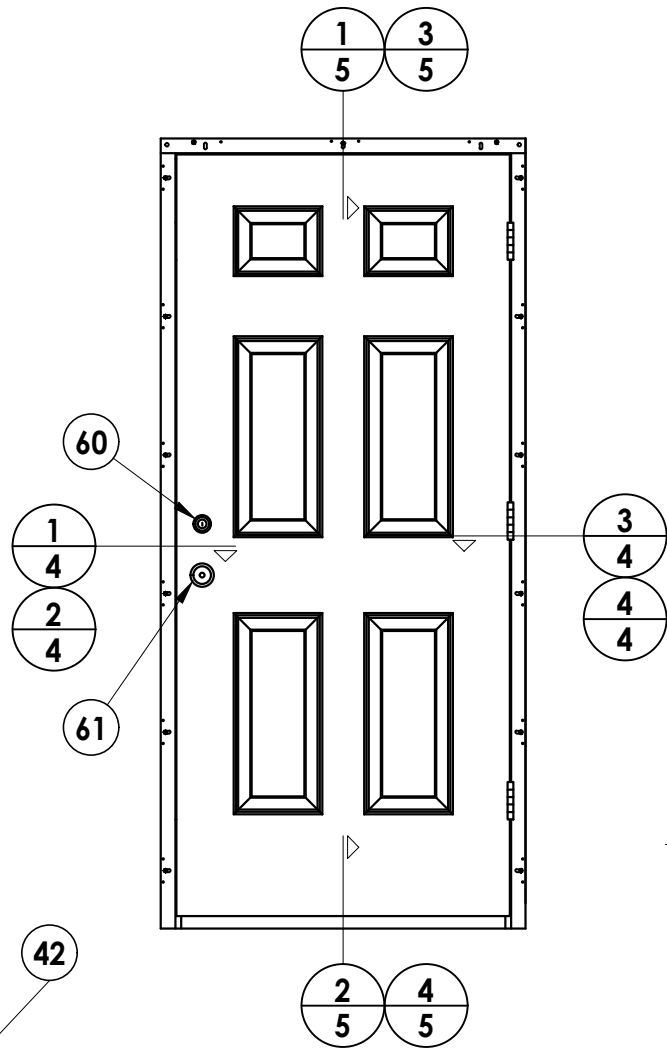
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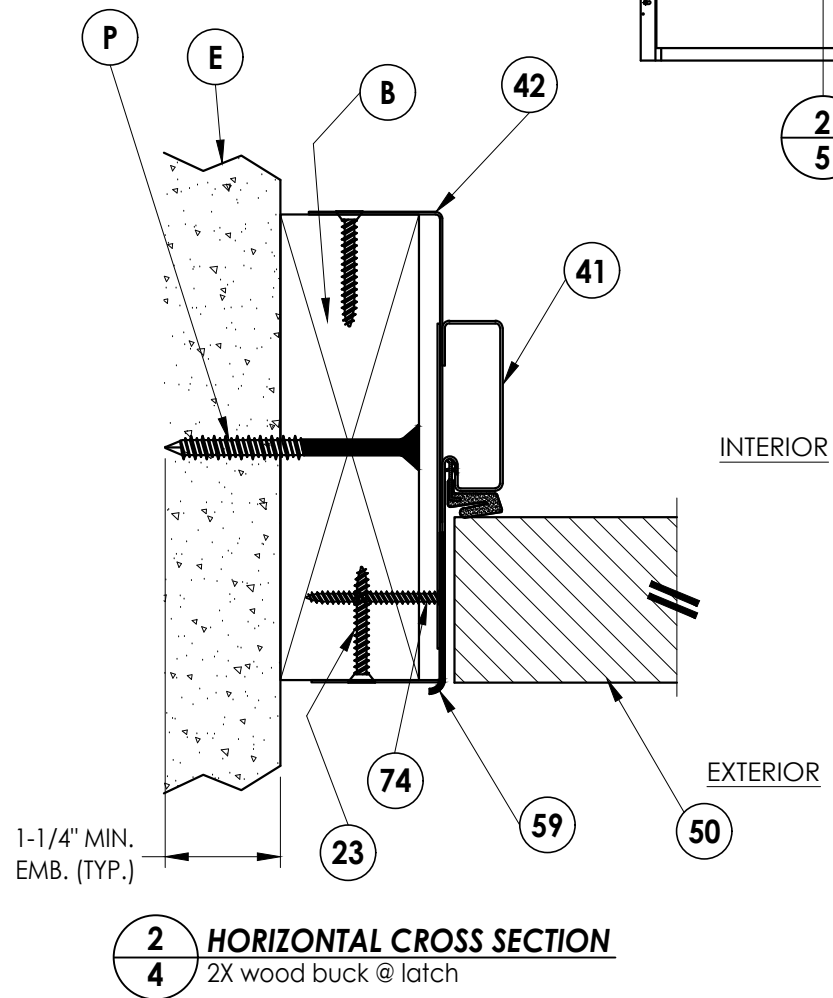
SHEET 3 OF 7



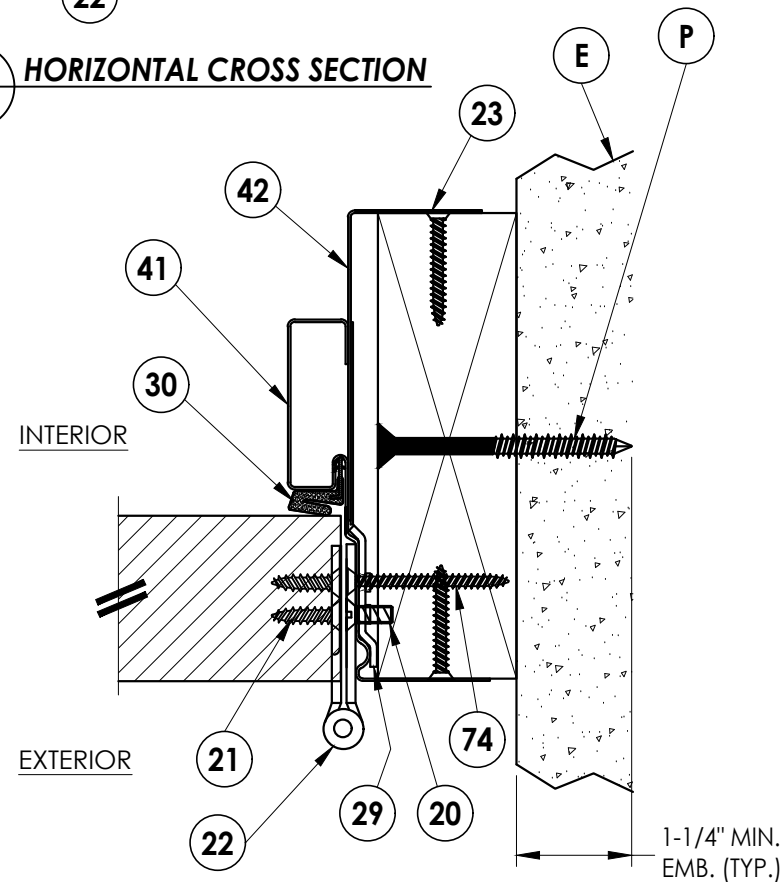
1
4 **HORIZONTAL CROSS SECTION**



3 **HORIZONTAL CROSS SECTION**



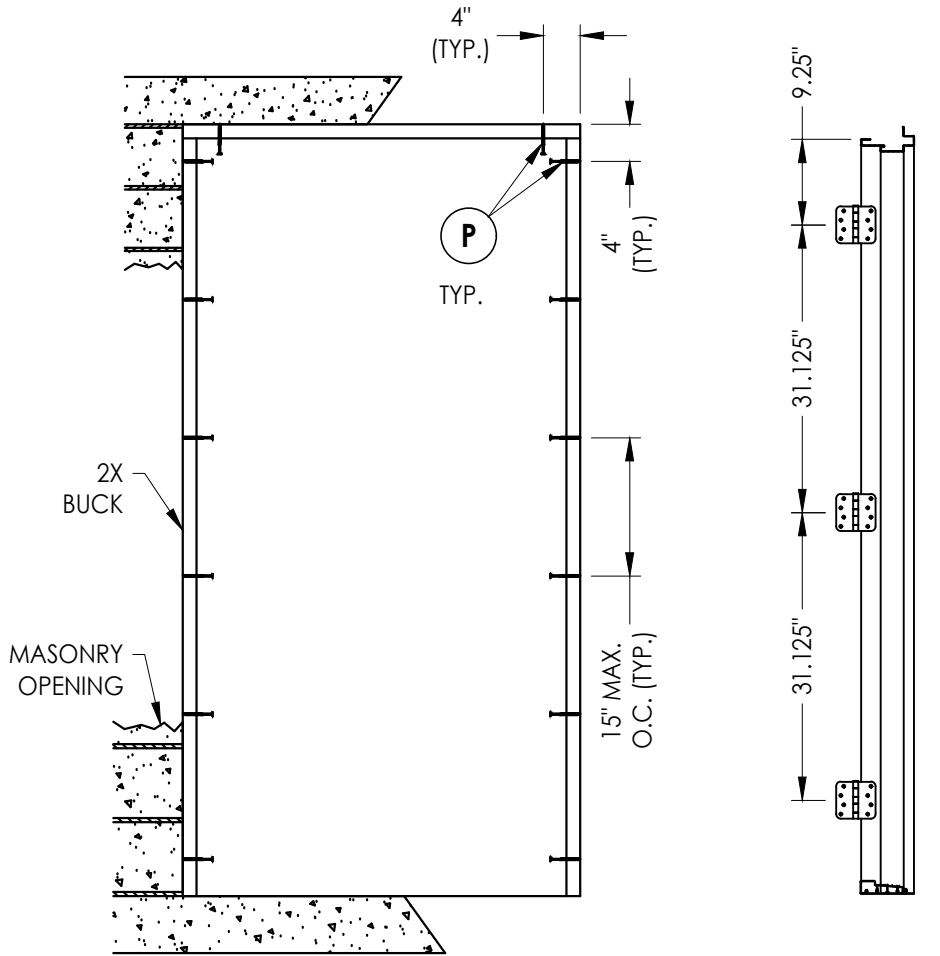
2 **HORIZONTAL CROSS SECTION**
4 2X wood buck @ latch



4 **HORIZONTAL CROSS SECTION**
4 2X wood buck @ hinge

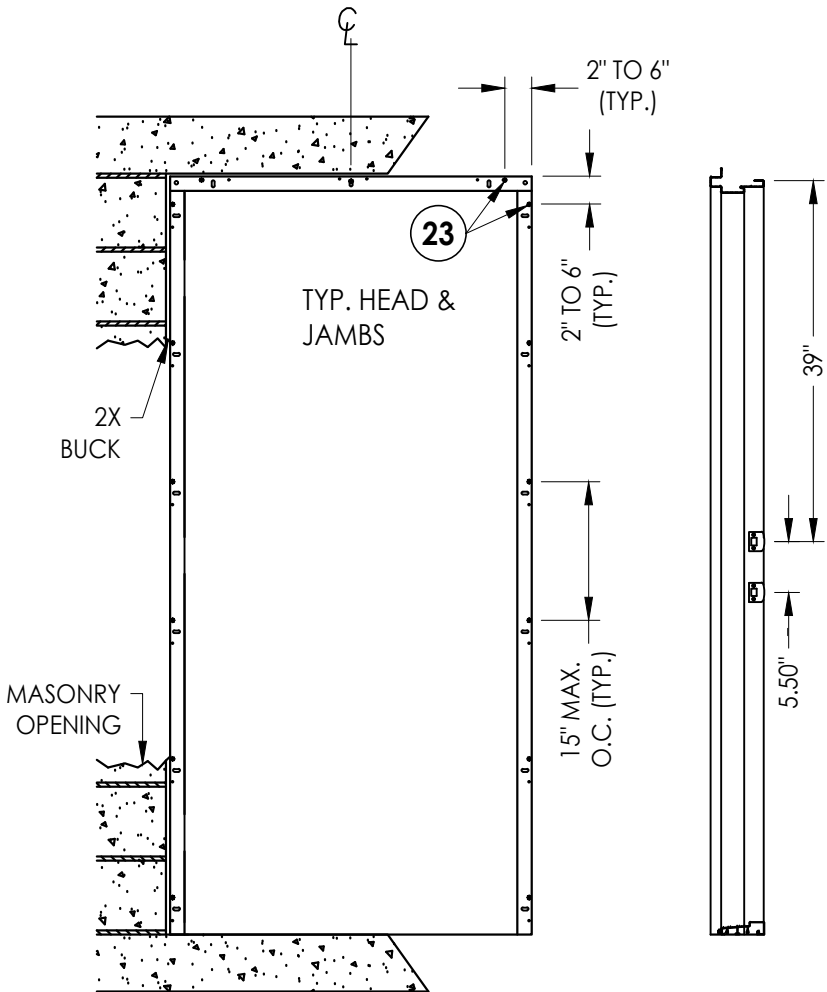
DATE: 3/30/15		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-15341.10		SHEET 4 OF 7		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
												BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
												PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME	
												PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
												NO. DATE 3 7/06/23 UPDATE TO 8TH ED. (2023) FBC LFS 2 8/11/20 UPDATE TO 7TH ED. (2020) FBC DAC 1 9/30/17 UPDATE TO 6TH ED. (2017) FBC LFS NO. DATE REVISIONS	

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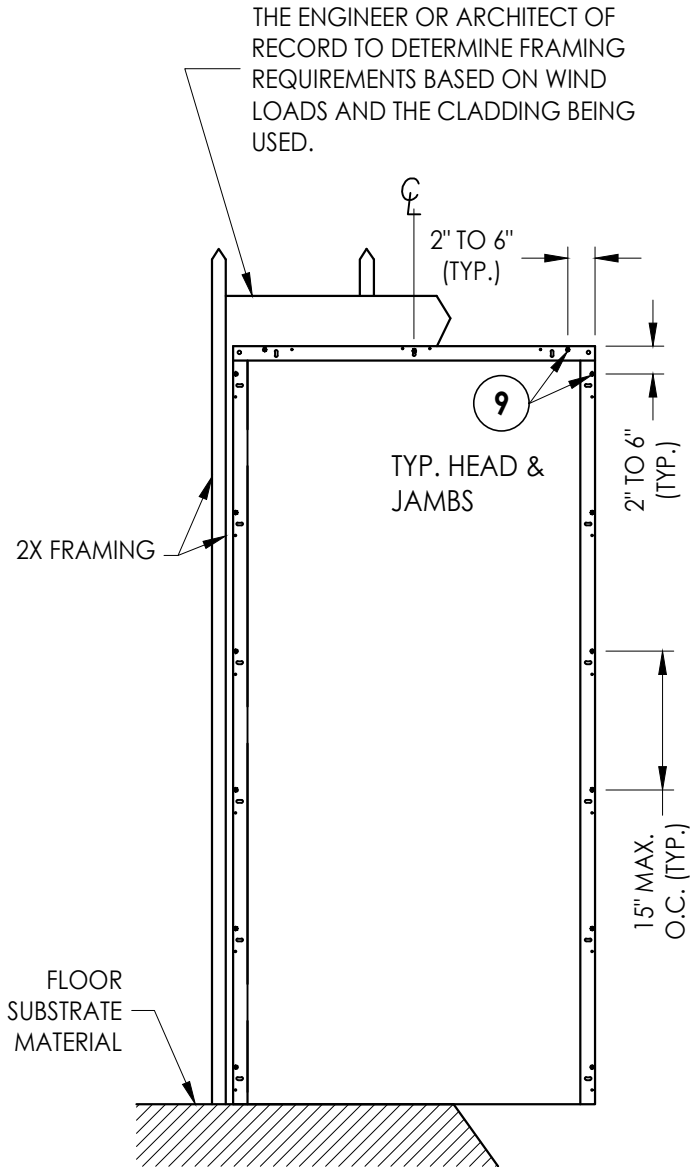
BUCK ANCHORING

HINGE JAMB



FRAME ANCHORING
2X MASONRY

STRIKE JAMB



FRAME ANCHORING
STUD CONSTRUCTION

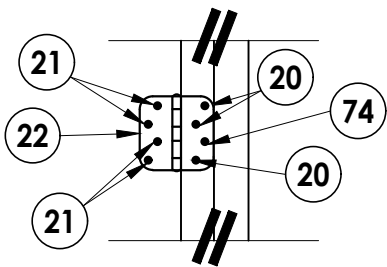
CONCRETE ANCHOR NOTES:

- 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:

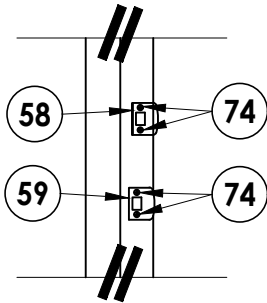
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

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.



HINGE DETAIL



STRIKE DETAIL

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PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING

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3	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
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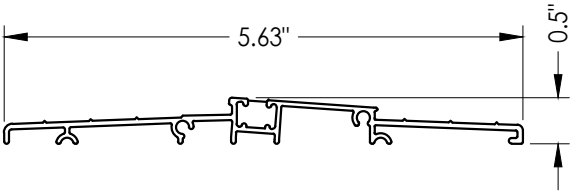
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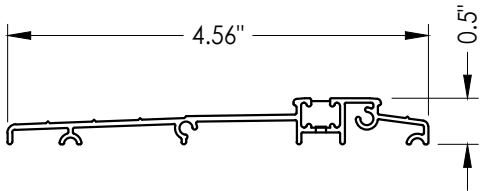
SHEET 6 OF 7

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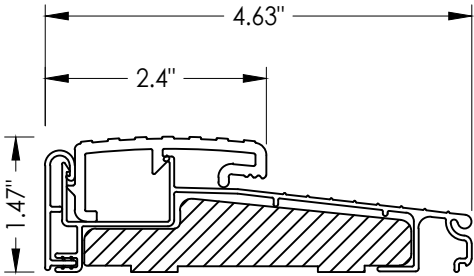
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
P	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
9	#8 X 1-1/2" PPH SMS (7/8" MIN. EMBEDMENT)	STEEL
11	HINGE & LATCH STILE	CELLULAR PVC
12	CONTINUOUS LATCH AND HINGE STILE REINFORCEMENT	LVL
13	BOTTOM RAIL	CELLULAR PVC
14	TOP RAIL	CELLULAR PVC
15	DOOR SKIN (MIN. 0.075" THICK) BY NAN YA	FIBERGLASS
16	POLYURETHANE FOAM BY NAN YA	POLYURETHANE
20	10-24 X 1/2" FLAT HEAD SCREW	STEEL
21	#9 X 1" PFH WOOD SCREW	STEEL
22	HINGE 4" X 4"	STEEL
23	#8 X 1" PH SMS (7/8" MIN. EMBEDMENT)	STEEL
29	JAMB HINGE REIN. 14 GA. 4" x 4" x 1.53" (.075" GALV. STEEL) BY DUNBARTON FR00505	STEEL
30	COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL	FOAM
41	REDIFLEX JAMB BASE 18 GA. MIN. (.042" GALV. STEEL) BY DUNBARTON	STEEL
42	REDIFLEX JAMB CLOSURE 22 GA. MIN. (.026" GALV. STEEL) BY DUNBARTON	STEEL
45	REINFORCEMENT WOOD FOR LOCKS	WOOD
50	FIBERGLASS DOOR PANEL: BY PLASTPRO INC./ NAN YA PLASTICS CORP.	-
51	INSWING HIGH DAM THRESHOLD BY ENDURA ZAI4566	ALUMINUM
52	DOOR BOTTOM SWEEP	VINYL
55	OUTSWING BUMP THRESHOLD 4.563" x 1.446" BY ENDURA ZFOB4566F	ALUMINUM
56	OUTSWING ADA THRESHOLD BY ENDURA ZHCO5622	ALUMINUM
57	INSWING ADA THRESHOLD BY ENDURA ZHCI4562	ALUMINUM
58	STRIKE PLATE - DEADBOLT	STEEL
59	STRIKE PLATE - LATCHBOLT	STEEL
60	KWIKSET SERIES (660) DEADBOLT	STEEL
61	KWIKSET SERIES PASSAGE LOCK	STEEL
73	2X FRAMING (SG >= 0.42)	WOOD
74	#8 x 1-3/4" PFH SMS	STEEL



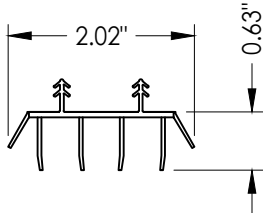
56 OUTSWING THRESHOLD



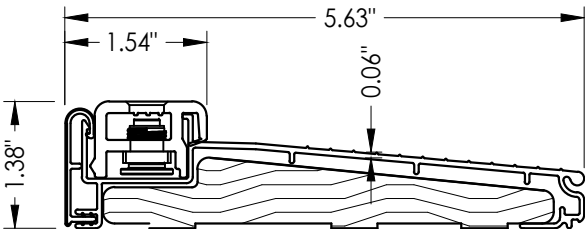
57 INSWING THRESHOLD



55 OUTSWING THRESHOLD



52 SWEEP



51 INSWING THRESHOLD

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PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		LFS	REVISIONS
		FBC	
3	7/06/23	UPDATE TO 8TH ED. (2023)	
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DRAWING NO.: FL-15341.10			
SHEET 7 OF 7			