



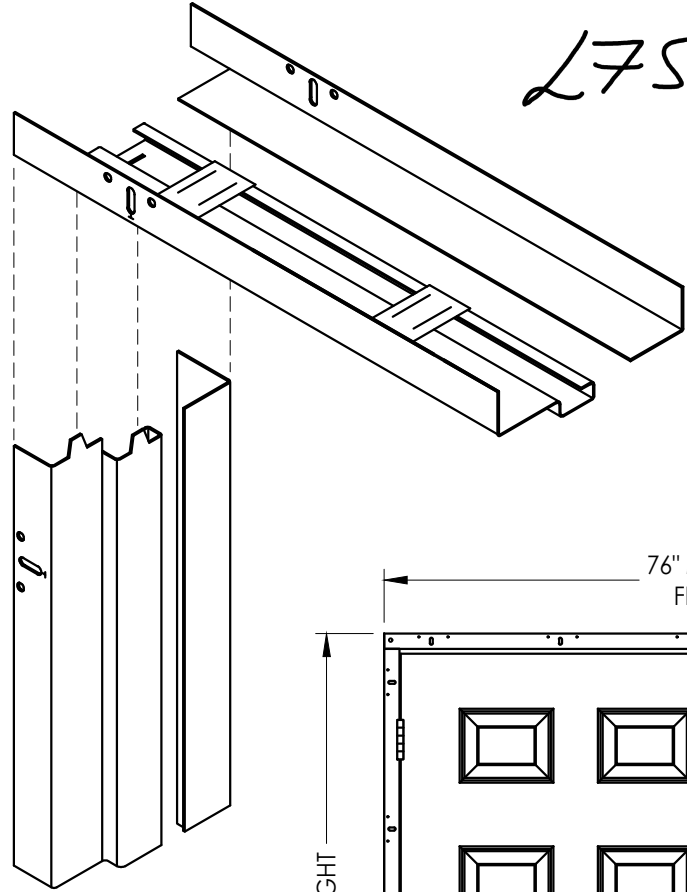
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"
TWO-PIECE STEEL FRAME SYSTEM
UTILIZING A
JELD-WEN DOUBLE OPAQUE STEEL DOOR
"IMPACT"

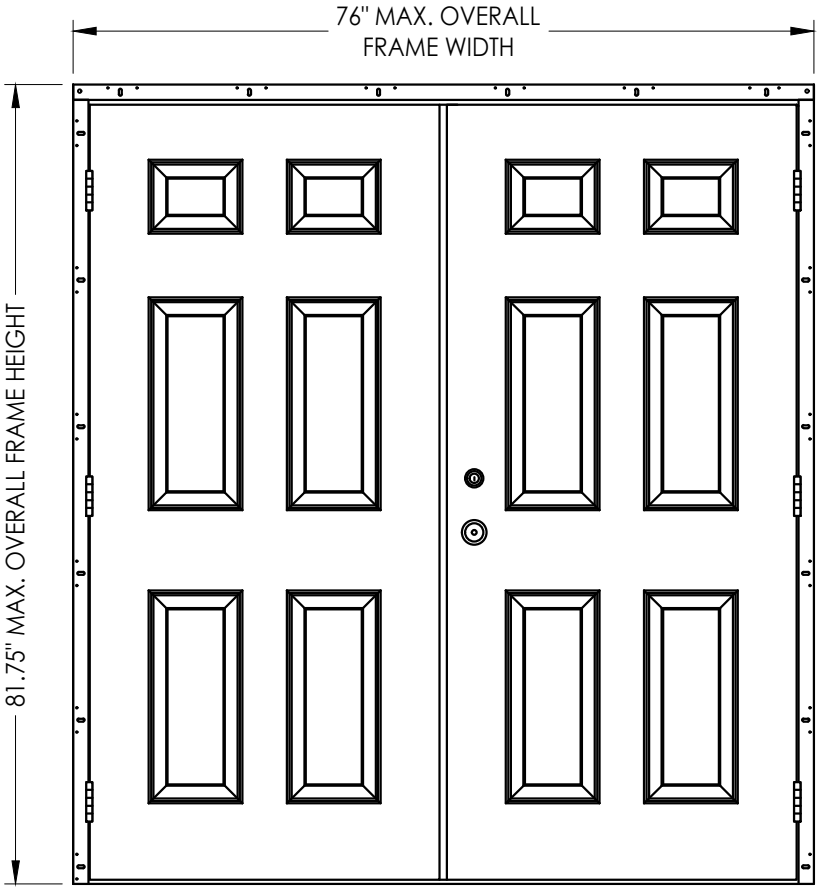
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "HVHZ" this product complies with Section 1626 of the FBC and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using item #72 meet water infiltration requirements for "HVHZ".
8. Configurations using item #70 and #71 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
9. When used in the "HVHZ", all steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Steel frame cross sections & details
3	Door panel details
4	Horizontal & vertical cross sections
5	Horizontal & vertical cross sections
6	Buck & frame anchoring - masonry 2x buck
7	Buck & frame anchoring - steel/2x stud
8	Astragal details
9	Bill of materials and components



REDIFLEX TWO-PIECE



OUTSWING

OVERALL FRAME DIMENSION	THRESHOLD TYPE	DESIGN PRESSURE (PSF) NON-HVHZ		DESIGN PRESSURE (PSF) HVHZ	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
76.0" X 81.75"	ADA	+ 55.0	- 55.0	+ 55.0*	- 55.0*
76.0" X 81.75"	STANDARD BUMP	+ 55.0	- 55.0	+ 50.0	- 50.0
76.0" X 81.75"	HIGH DAM	+ 55.0	- 55.0	+ 55.0	- 55.0

*See General Note #8

Professional Engineer

State of Florida

No. 43409

L. F. SCHMIDT

LICENSE

Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 12:05:58 -04'00'

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

THIS PRODUCT APPROVAL IS VALID ONLY FOR THE STATE OF FLORIDA

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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

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

4	7/06/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	8/11/20	UPDATE TO 7TH ED. (2020) FBC	DAC
2	9/30/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC	JK
NO.	DATE		BY

REVISIONS

DATE: 6/3/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

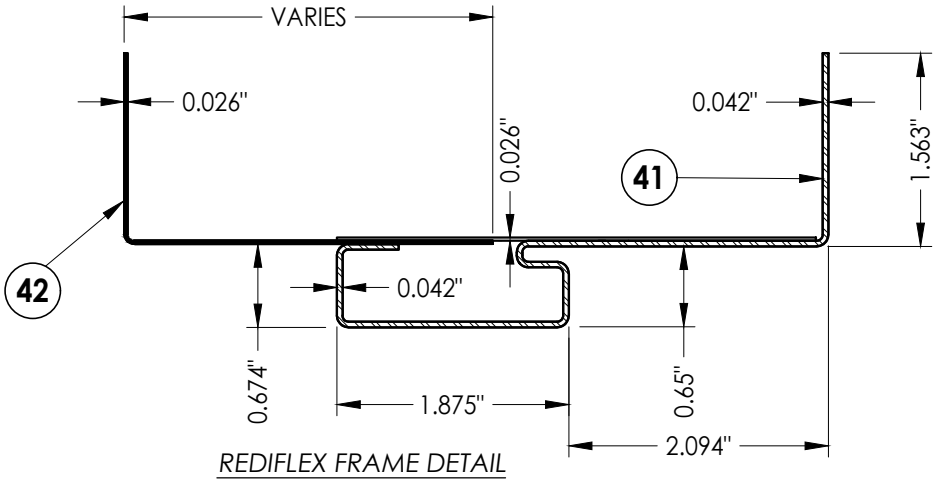
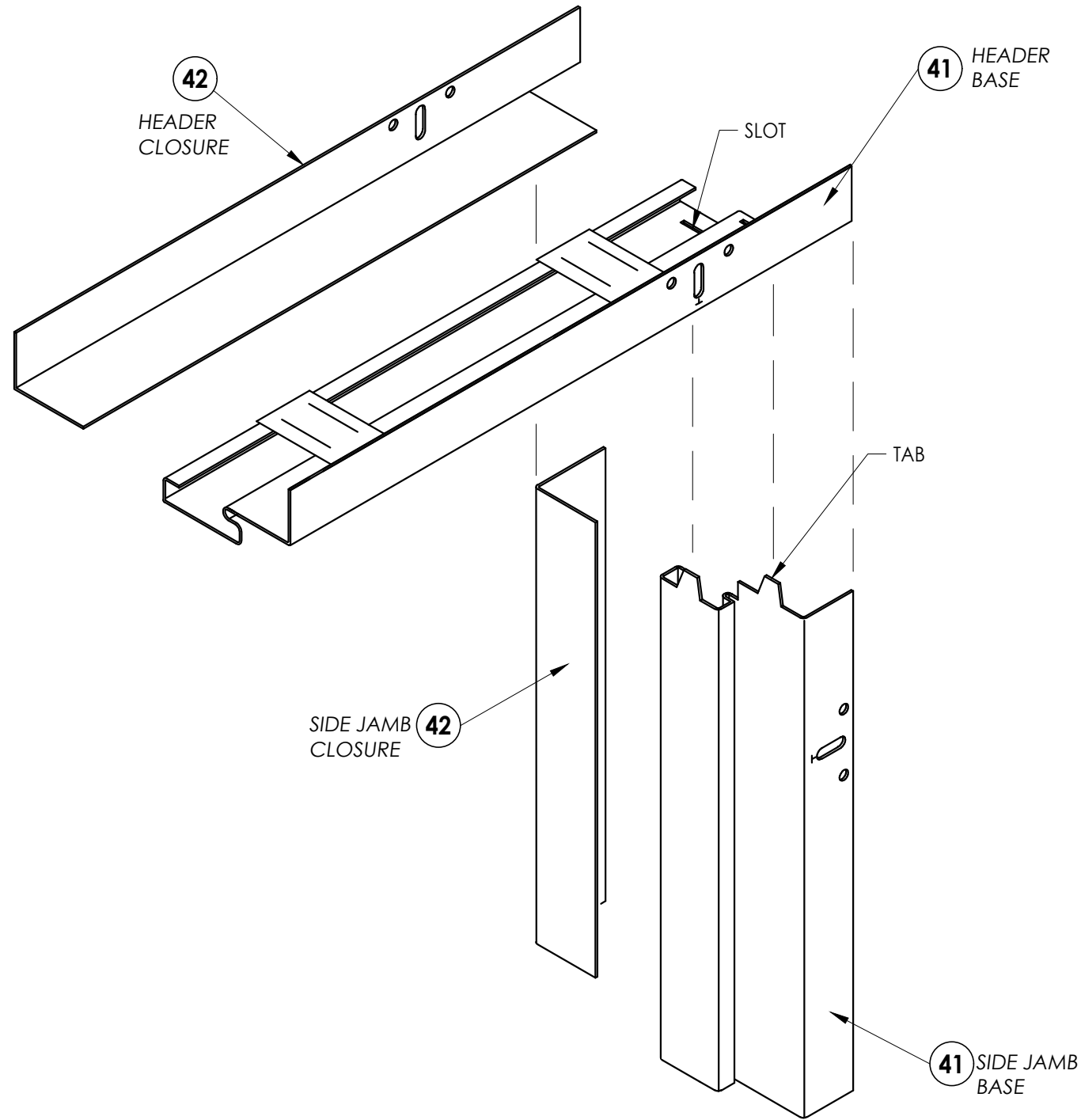
DRAWING NO.: FL-15341.8

SHEET 1 OF 9

Building Consultants, Inc.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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NOTES:

1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 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 FRAMES DO NOT MEET AIR AND WATER CRITERIA.

NO.	DATE	REVISIONS			
		DATE	BY	JK	LFS
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
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2	9/30/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 6/3/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15341.8

SHEET 2 OF 9

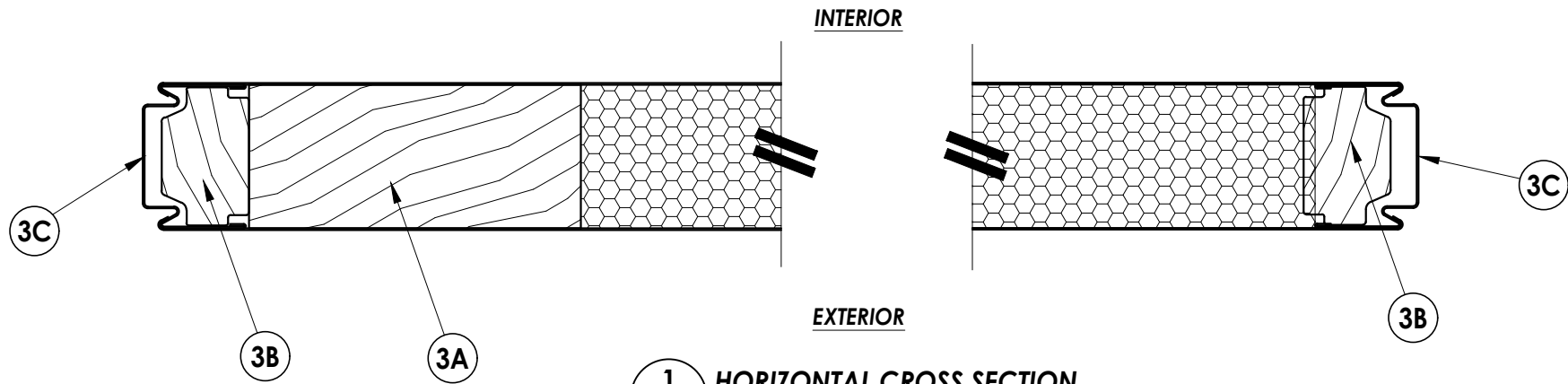
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

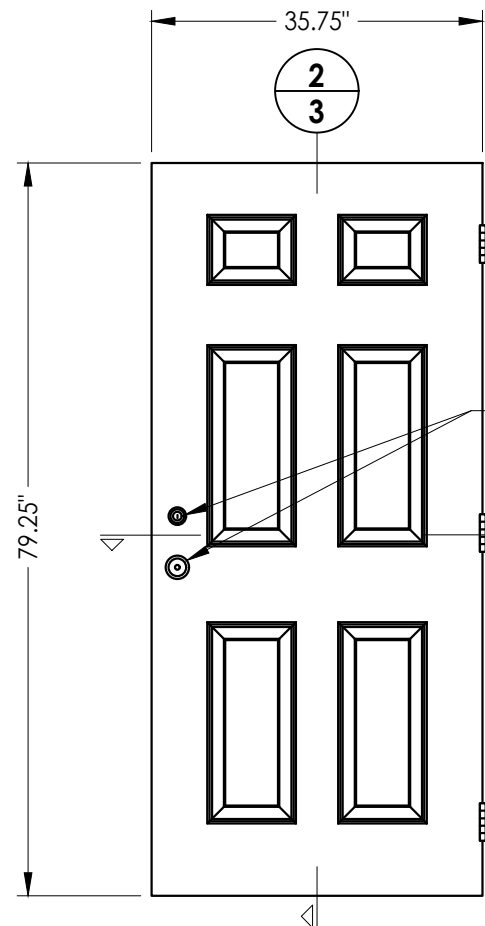
PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
STEEL FRAME CROSS SECTION
& DETAILS

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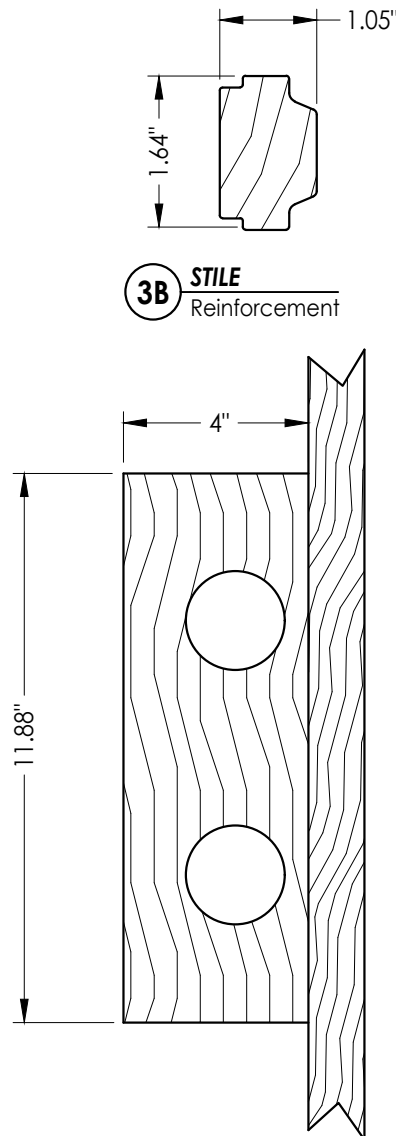


1
3 **HORIZONTAL CROSS SECTION**
Door panel



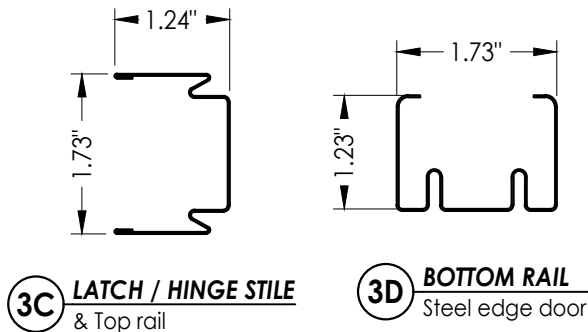
50 **DOOR PANEL**
JELD-WEN

STEEL SKIN: 0.020" MIN. THICK (F_y = 30,100 PSI MIN.)
FOAM CORE: POLYSTYRENE (1.25 PCF DENSITY)



3A **LOCK BLOCK**

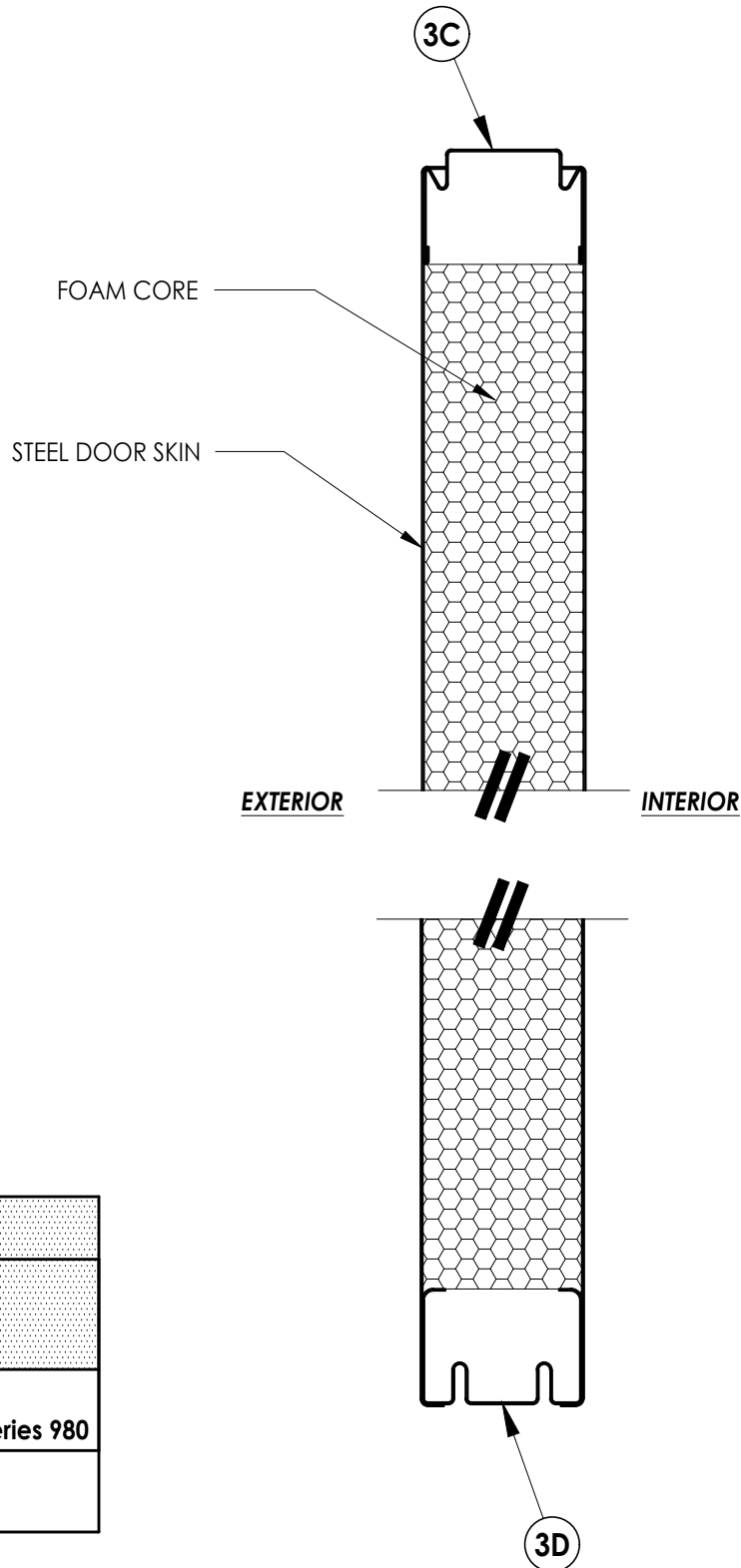
3B **STILE**
Reinforcement



3C **LATCH / HINGE STILE**
& Top rail

3D **BOTTOM RAIL**
Steel edge door

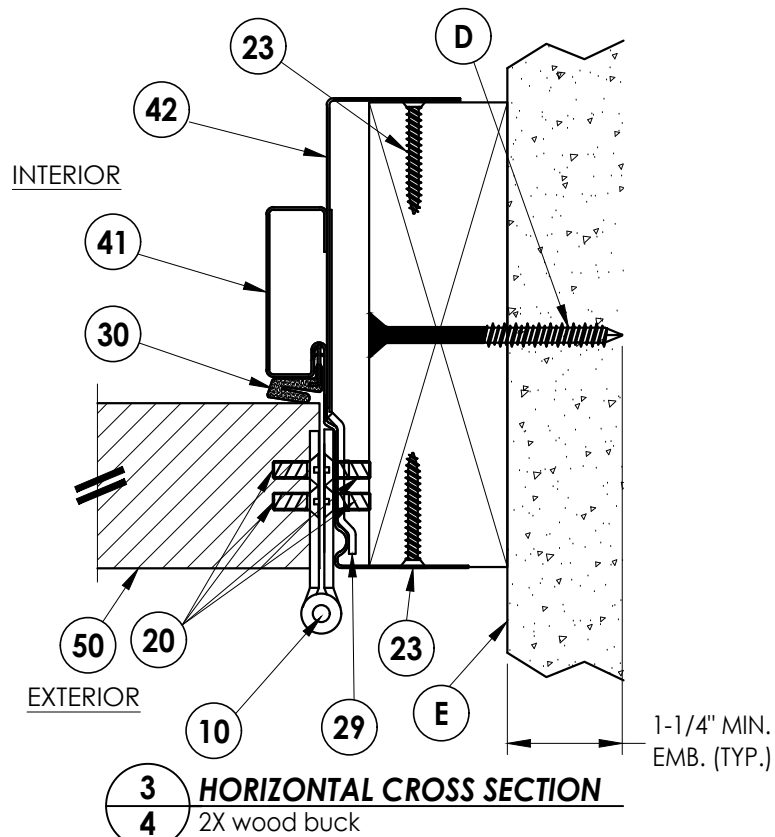
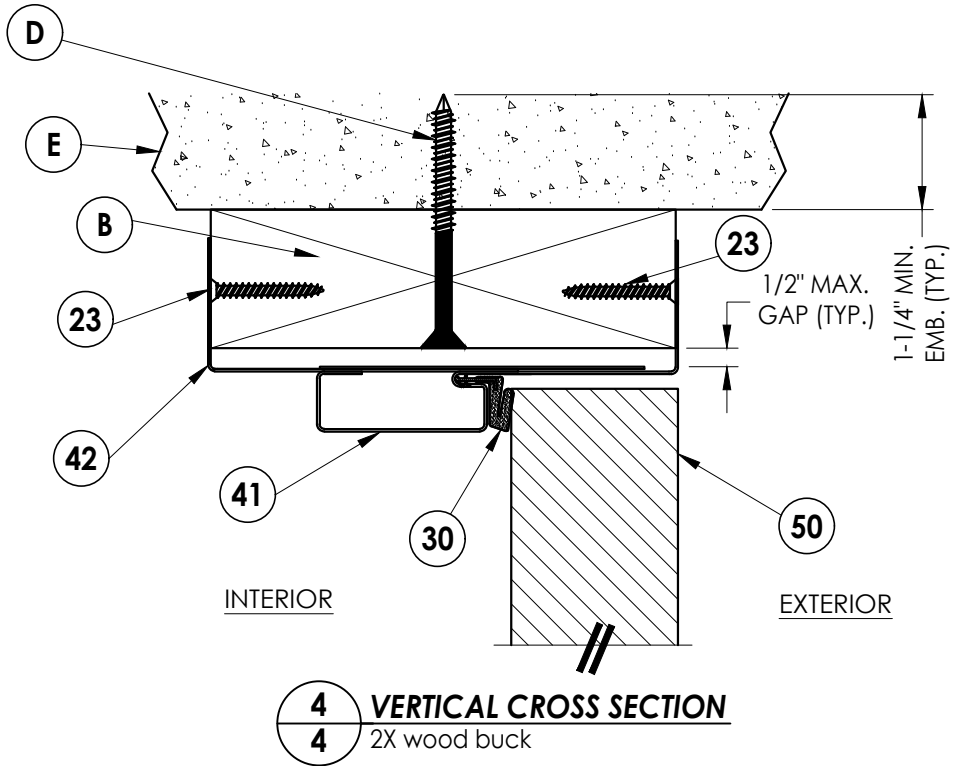
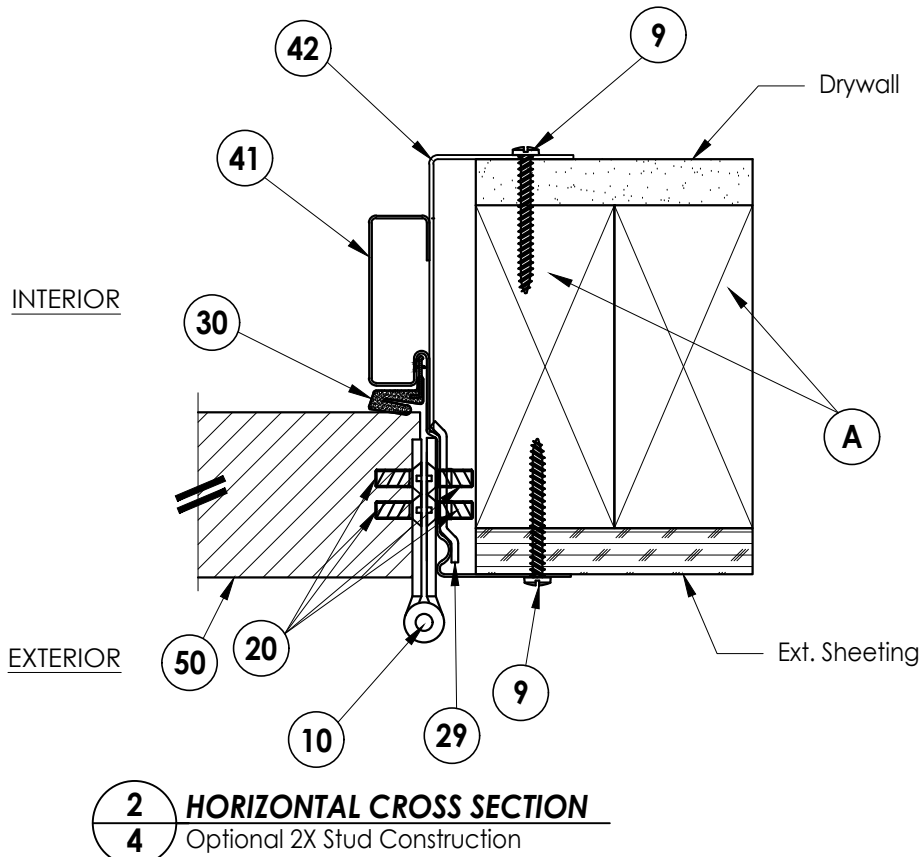
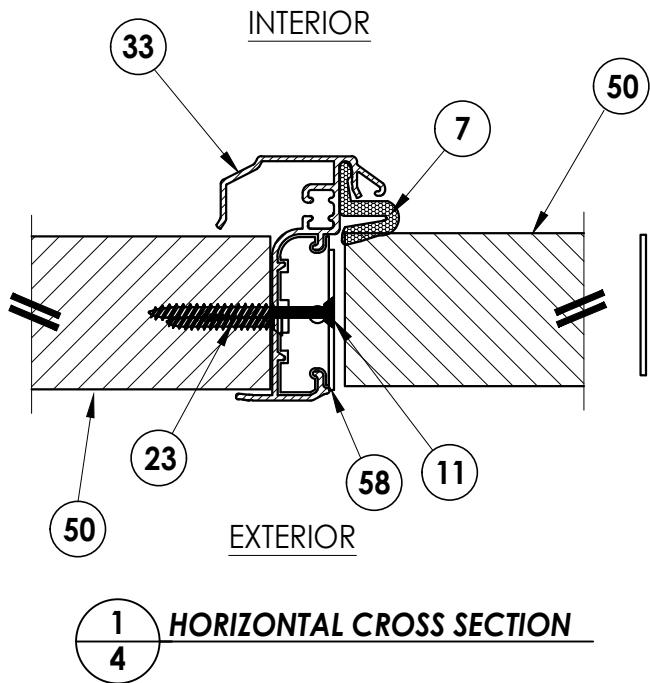
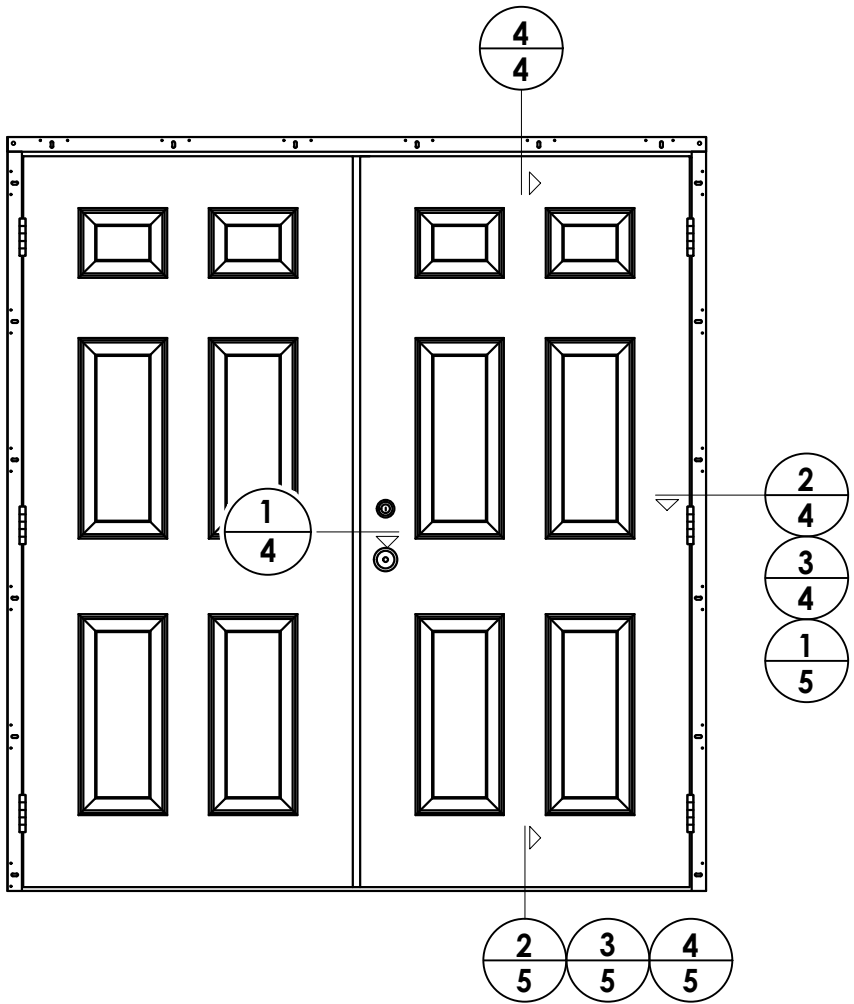
HARDWARE CHART		
MANUFACTURER	MODEL	
KWIKSET	LEVER:	200DL
	DEADBOLT:	Signature Series 980
SCHLAGE	LOCK:	F51
	DEADBOLT:	B60N



2
3 **VERTICAL CROSS SECTION**
Door panel

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		RW	
PART OR ASSEMBLY: DOOR PANEL DETAILS			
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	8/11/20	UPDATE TO 7TH ED. (2020)	FBC DAC
2	9/30/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC JK
NO.	DATE		BY
REVISIONS			
DATE: 6/3/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-15341.8			
SHEET 3 OF 9			

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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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

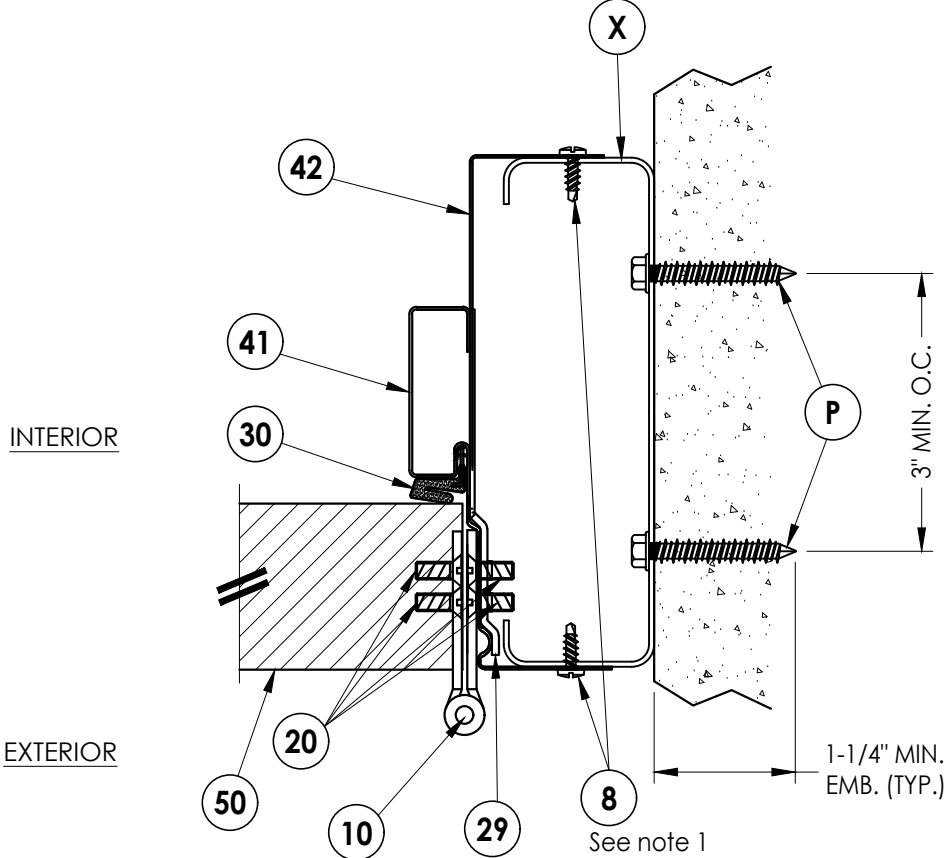
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS	BY
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	8/11/20	UPDATE TO 7TH ED. (2020) FBC	DAC
2	9/30/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC	JK

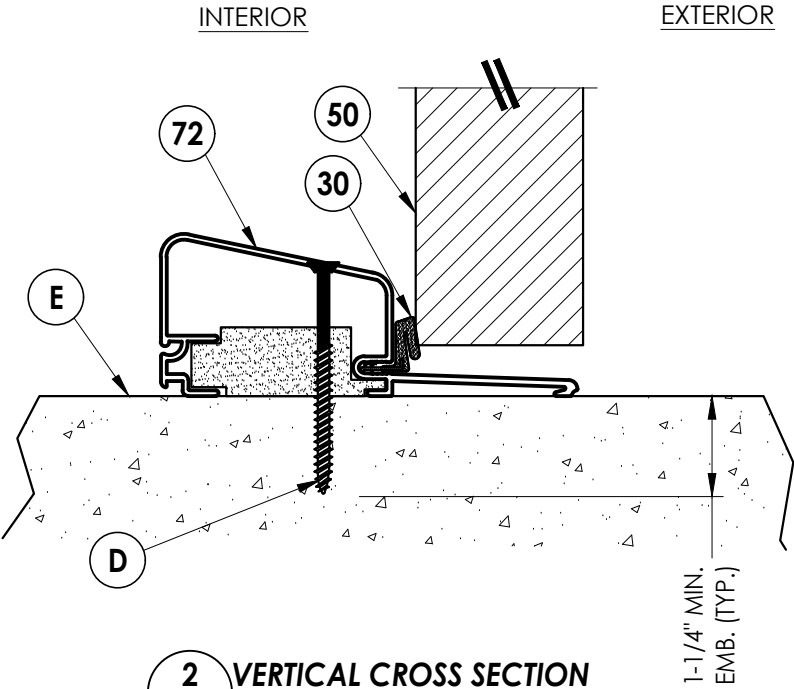
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SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-15341.8
SHEET 4 OF 9

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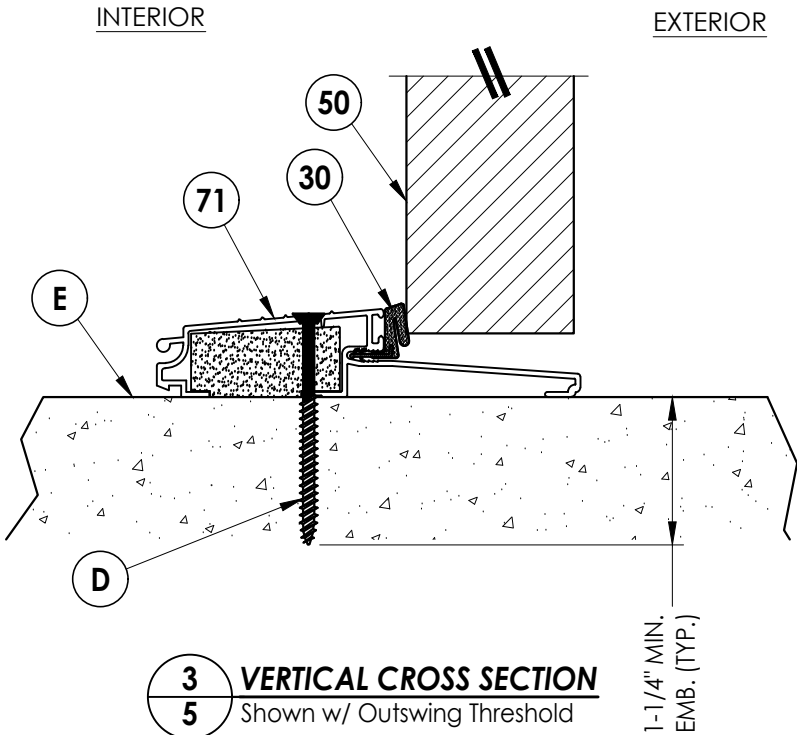
Note:
1. A minimum of three threads must protrude completely through the supporting steel stud.



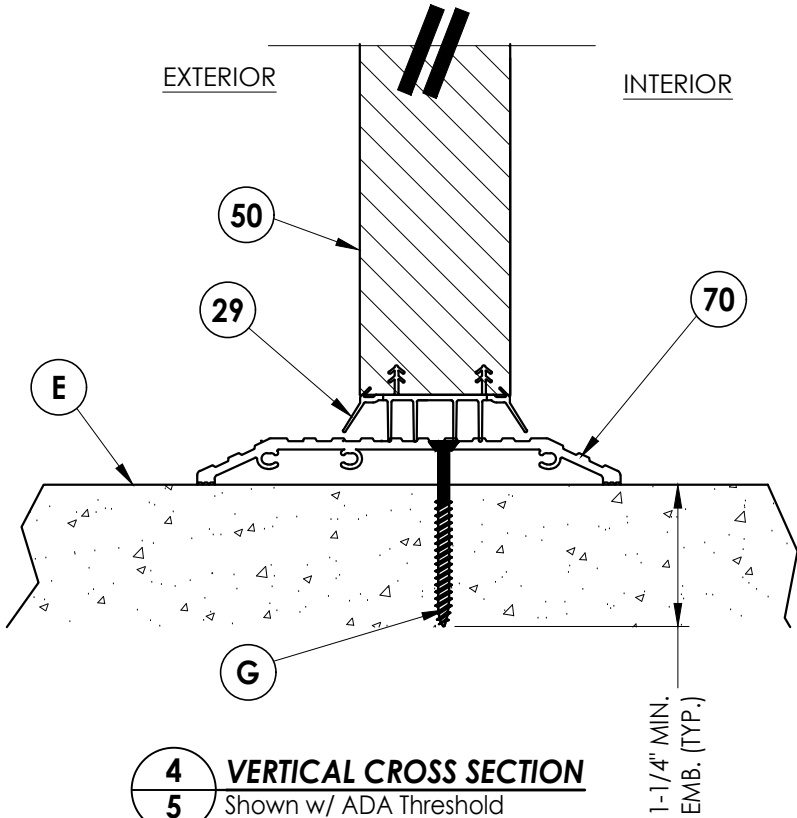
1 HORIZONTAL CROSS SECTION
5 Optional steel stud construction



2 VERTICAL CROSS SECTION
5 Shown w/ High Dam Threshold



3 VERTICAL CROSS SECTION
5 Shown w/ Outswing Threshold



4 VERTICAL CROSS SECTION
5 Shown w/ ADA Threshold

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS			
		DATE	BY	CHK	APP
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DWG. BY: JK

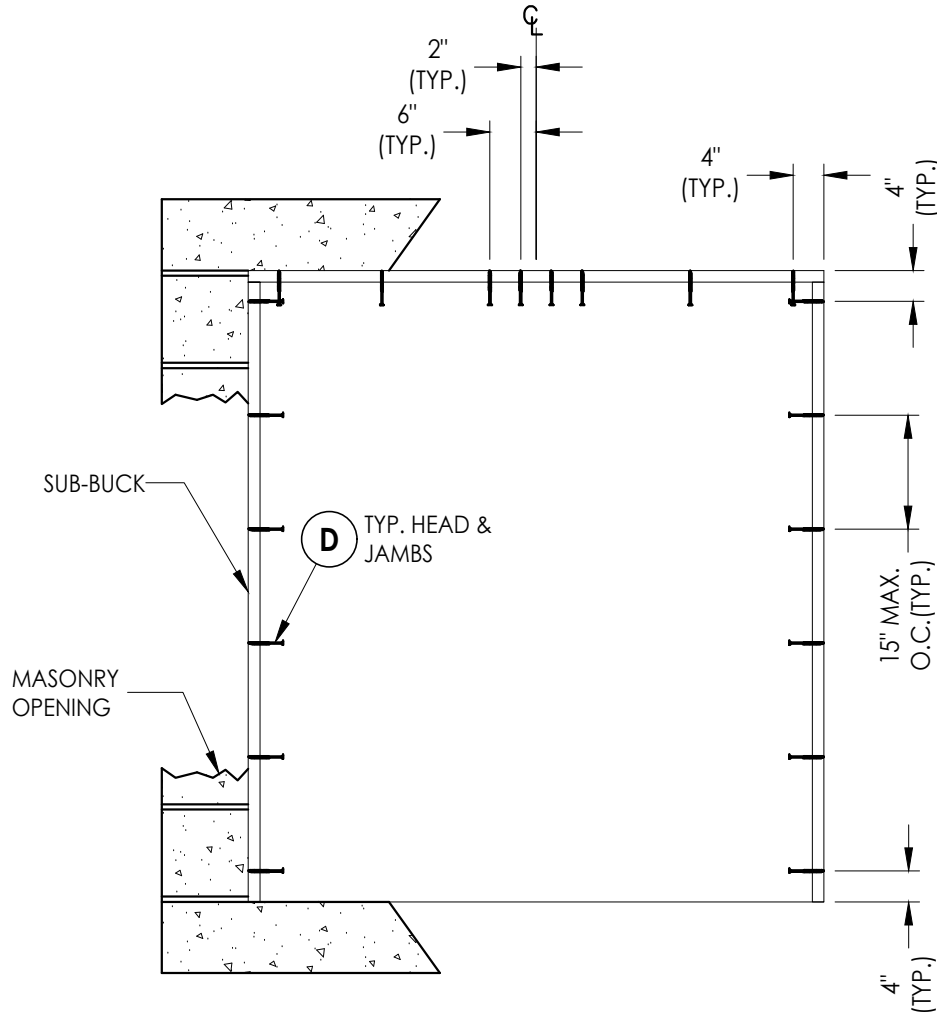
CHK. BY: LFS

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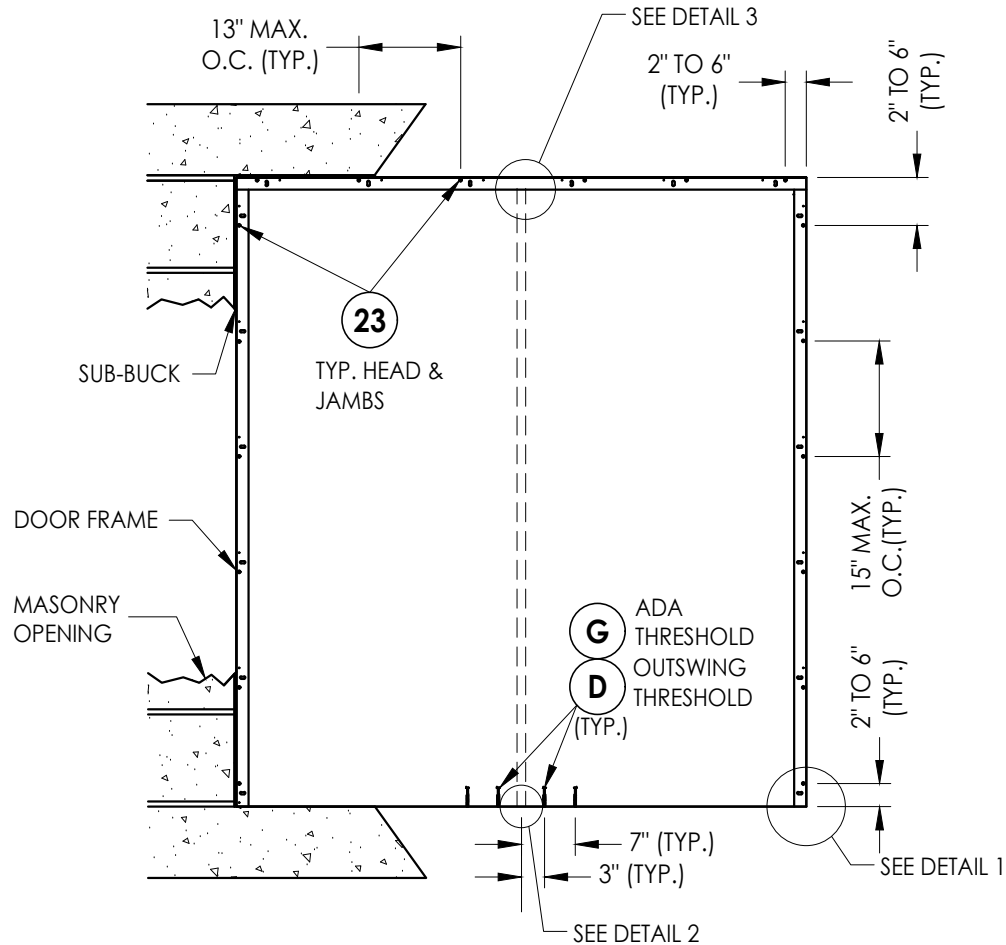
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SHEET 5 OF 9

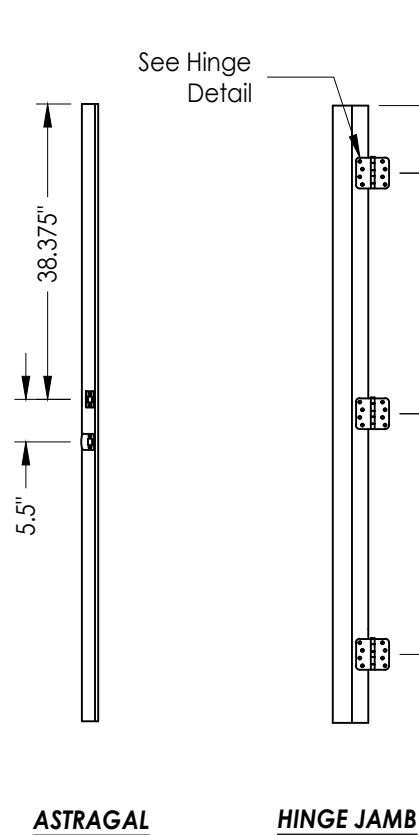
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BUCK ANCHORING
Masonry 2X buck construction



FRAME ANCHORING
Masonry 2X buck construction



ASTRAGAL

HINGE JAMB

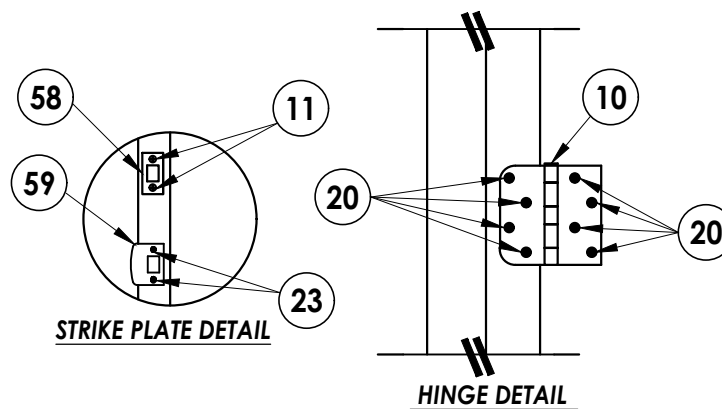
CONCRETE ANCHOR NOTES:

- 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 ULTRA-CON®	1/4"	1-1/4"	1"	4"

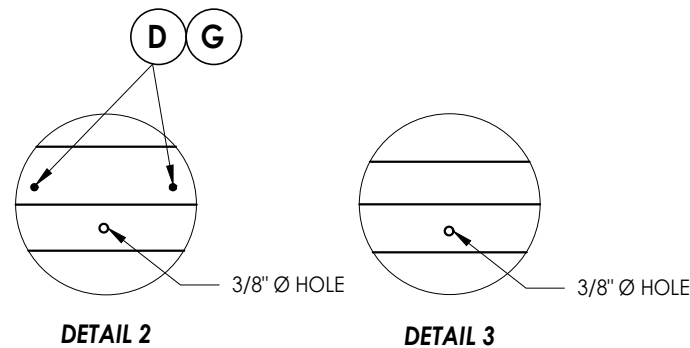
WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



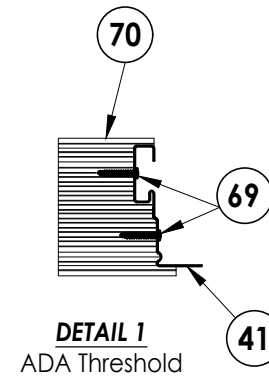
STRIKE PLATE DETAIL

HINGE DETAIL

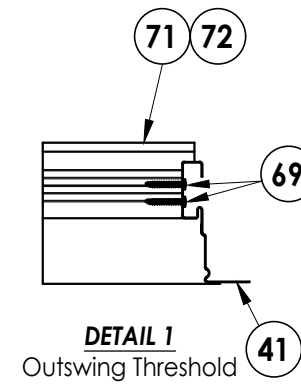


DETAIL 2

DETAIL 3



DETAIL 1
ADA Threshold



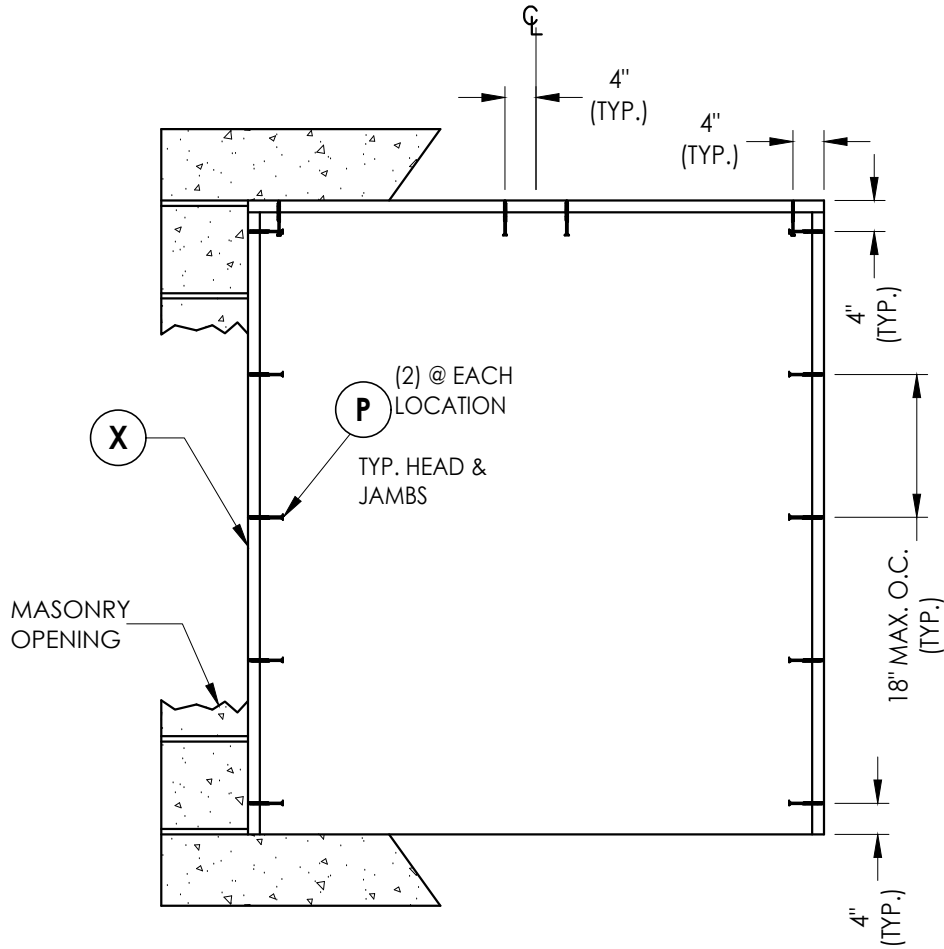
DETAIL 1
Outswing Threshold

PRODUCT:		DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME				PART OR ASSEMBLY:			
		BUCK AND FRAME ANCHORING MASONRY 2X BUCK							
REVISONS	NO.	DATE	BY	JK	LFS	DATE	BY	JK	LFS
	1	3/23/15							
	2	9/30/17							
	3	8/11/20							
	4	7/06/23							
DATE: 6/3/13									
SCALE: N.T.S.									
DWG. BY: JK									
CHK. BY: LFS									
DRAWING NO.: FL-15341.8									
SHEET 6 OF 9									

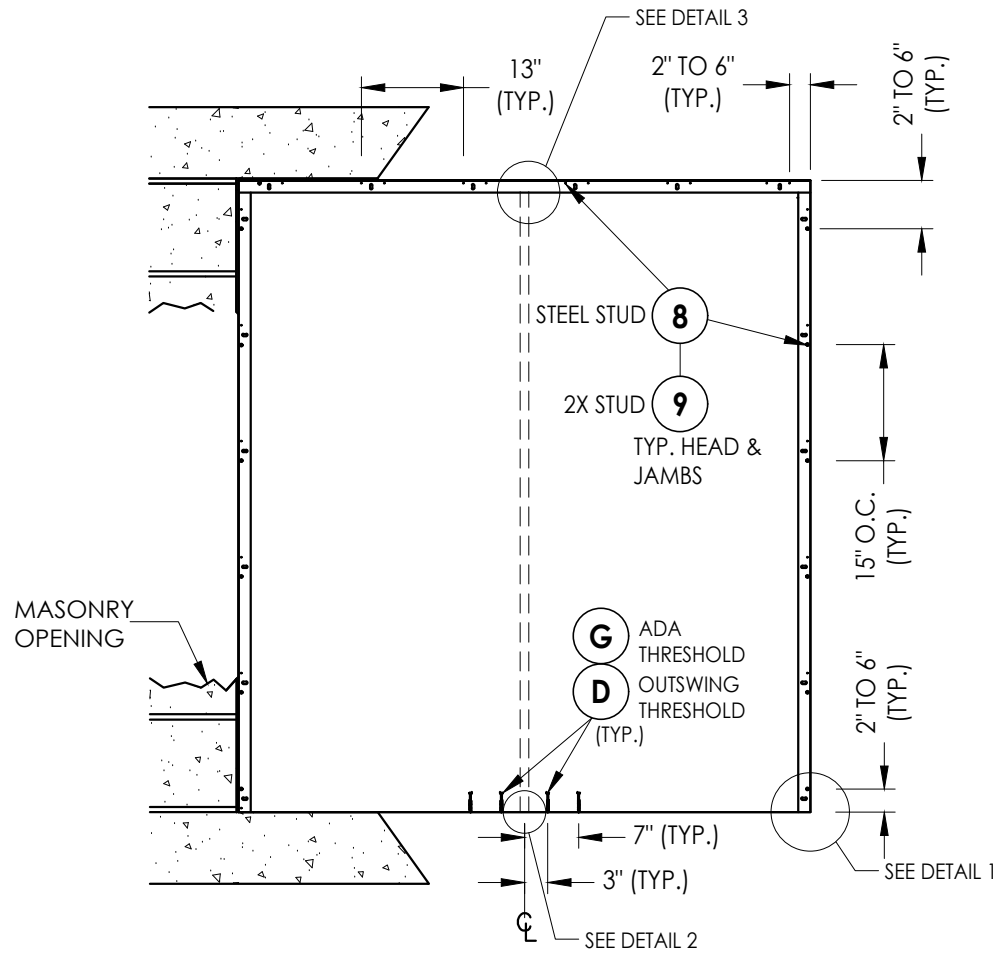
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

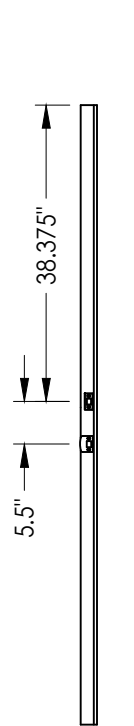
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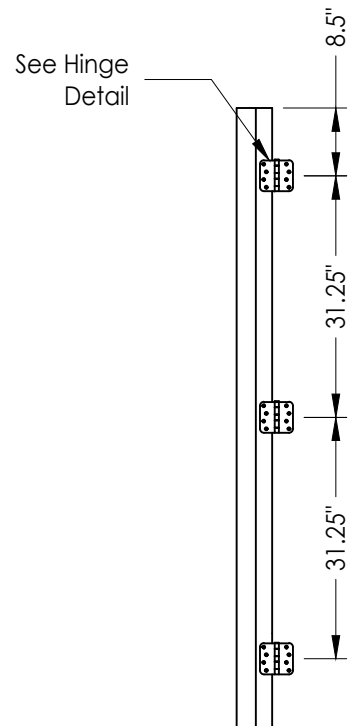
BUCK ANCHORING
Masonry steel stud construction



FRAME ANCHORING
Stud construction



ASTRAGAL



HINGE JAMB

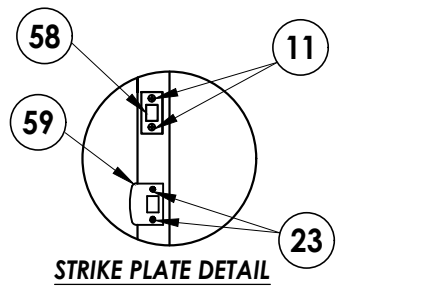
CONCRETE ANCHOR NOTES:

- 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:

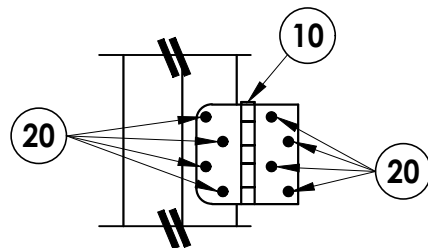
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DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

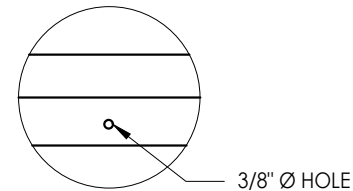
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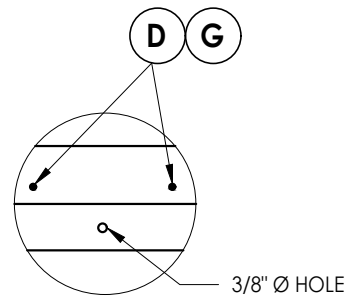
STRIKE PLATE DETAIL



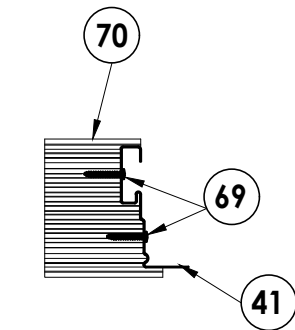
HINGE DETAIL



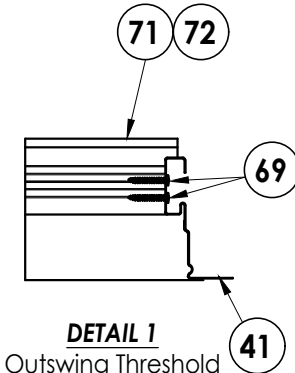
DETAIL 3



DETAIL 2



DETAIL 1
ADA Threshold



DETAIL 1
Outswing Threshold

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

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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING
STEEL/2X STUD

NO.	DATE	REVISIONS
4	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
3	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
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1	3/23/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 6/3/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15341.8

SHEET 7 OF 9

1.75"

2.65"

0.063"

33 **ALUMINUM ASTRAGAL**
BY ENDURA PRODUCTS

A technical diagram of a slide bolt rod assembly. The diagram shows a vertical cross-section of the assembly. Labels with leader lines point to the following components:

- BOLT RETAINERS**: Two components at the top of the assembly, one on each side, which hold the bolt rod in place.
- SLIDE BOLT ROD**: The central horizontal rod that slides within the assembly.
- ALUMINUM ASTRAGAL**: The bottom component of the assembly, which is a curved, U-shaped piece that the bolt rod passes through.

TOP

ANCHOR SCREW LOCATIONS

5.5"

HARDWARE LOCATIONS

1"

12"

50.4"

44"

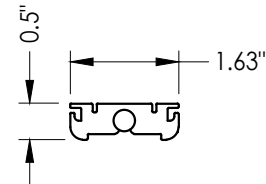
35.2"

28.9"

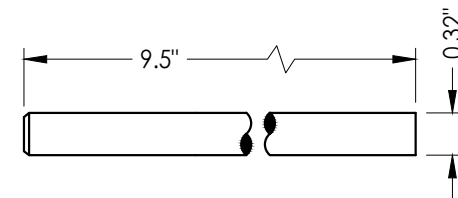
13"

0.5"

BOTTOM



BOLT RETAINER
GF NYLON



SLIDE BOLT ROD
STEEL

4	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	8/11/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
2	9/30/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	3/23/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				BY
REVISIONS					

DATE:	6/3/13
SCALE:	N.T.S.
DWG. BY:	JK
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DRAWING NO.:	FL-15341.8
SHEET	8 OF 9

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