



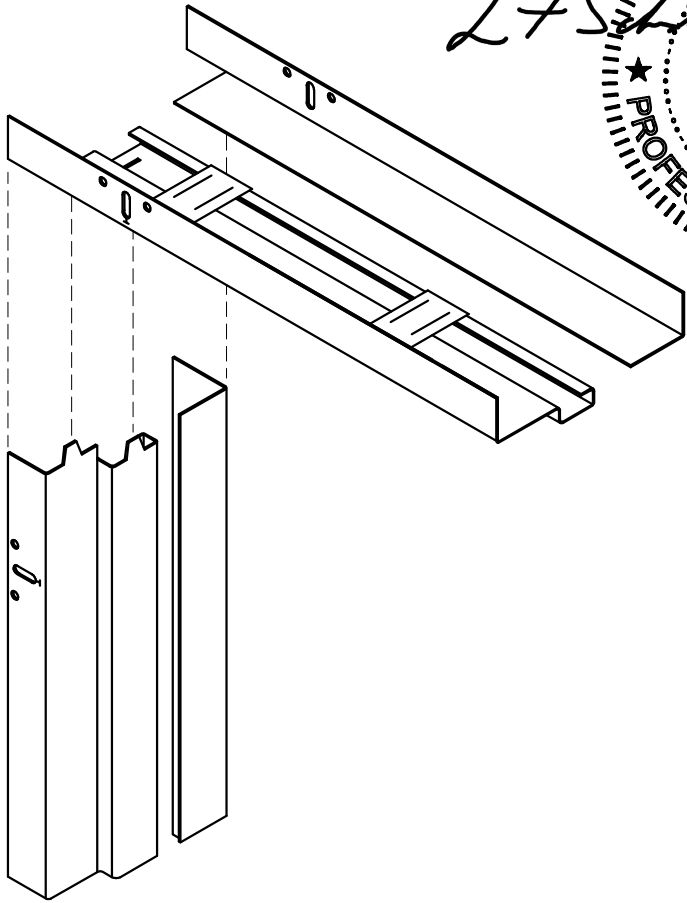
868 MURRAY ROAD, DOTHAN, AL 36303

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

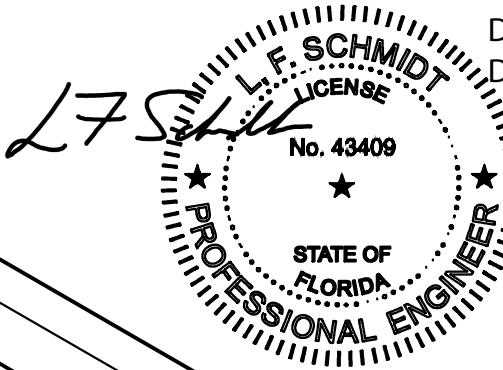
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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 #71 and #72 meet water infiltration requirements for "HVHZ".
8. Configurations using item #70 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	Bill of materials and components



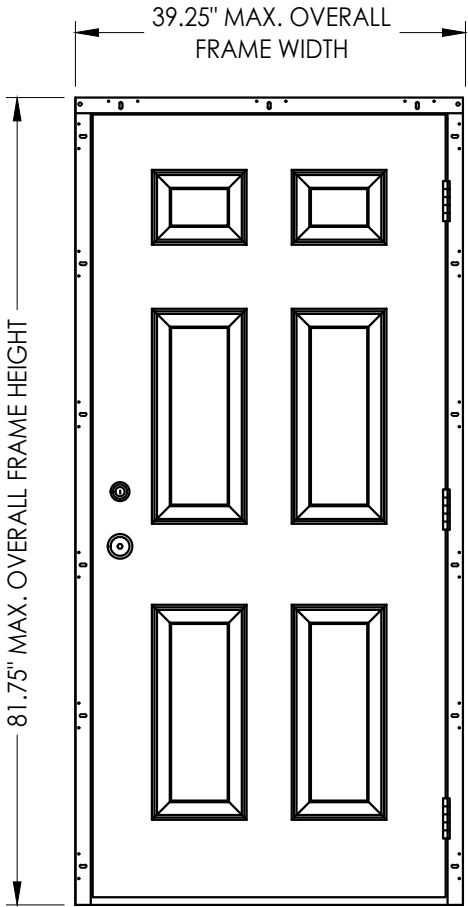
REDIFLEX TWO-PIECE



Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 12:07:09 -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



OUTSWING

OVERALL FRAME DIMENSION	THRESHOLD TYPE	DESIGN PRESSURE (PSF) NON-HVHZ		DESIGN PRESSURE (PSF) HVHZ	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
39.5" X 81.75"	ADA	+ 65.0	- 65.0	+ 65.0*	- 65.0*
39.5" X 81.75"	STANDARD BUMP	+ 65.0	- 65.0	+ 50.0	- 50.0
39.5" X 81.75"	HIGH DAM	+ 65.0	- 65.0	+ 65.0	- 65.0

*See General Note #8

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

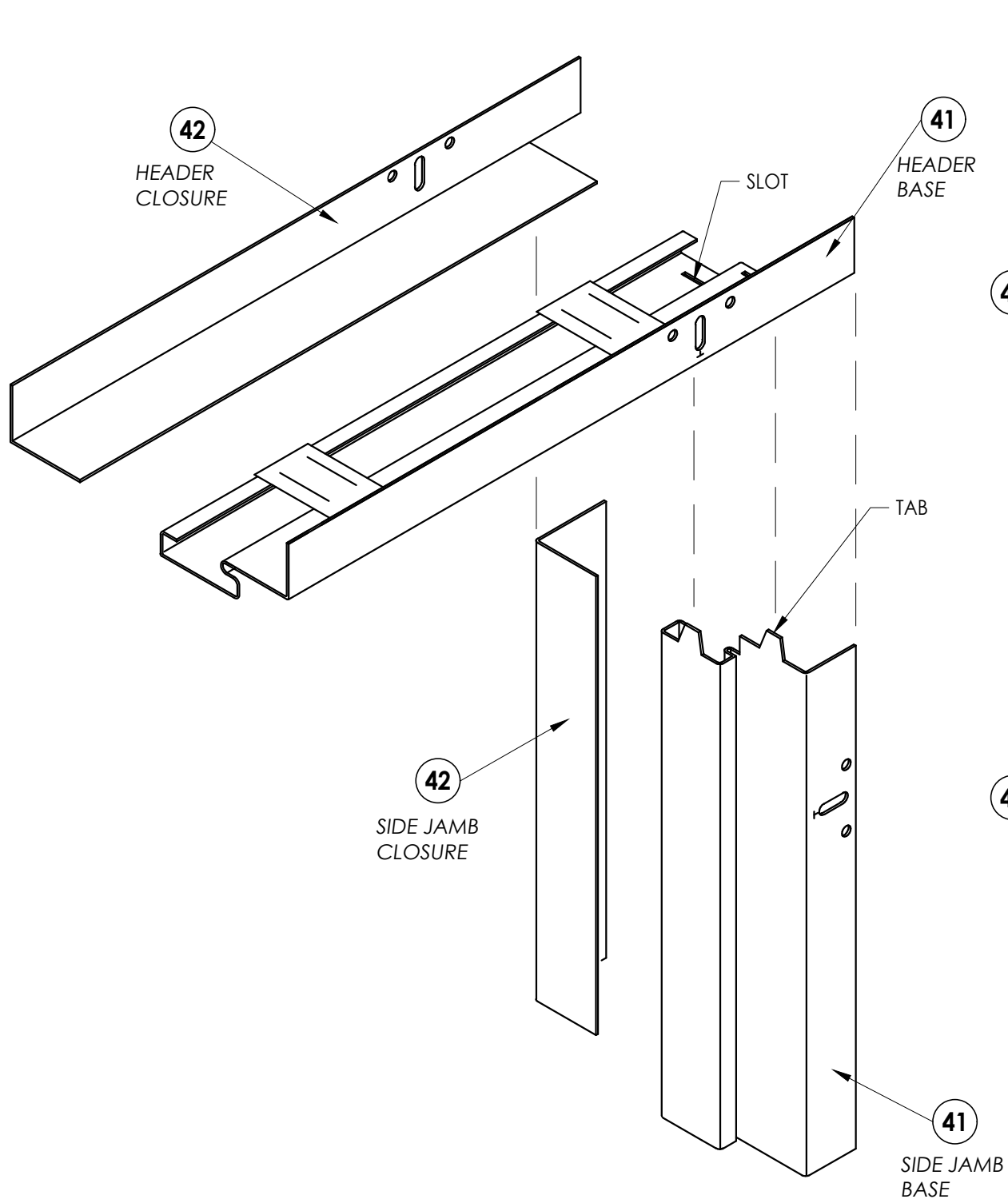
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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

						REVISIONS	
						NO.	DATE
	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		

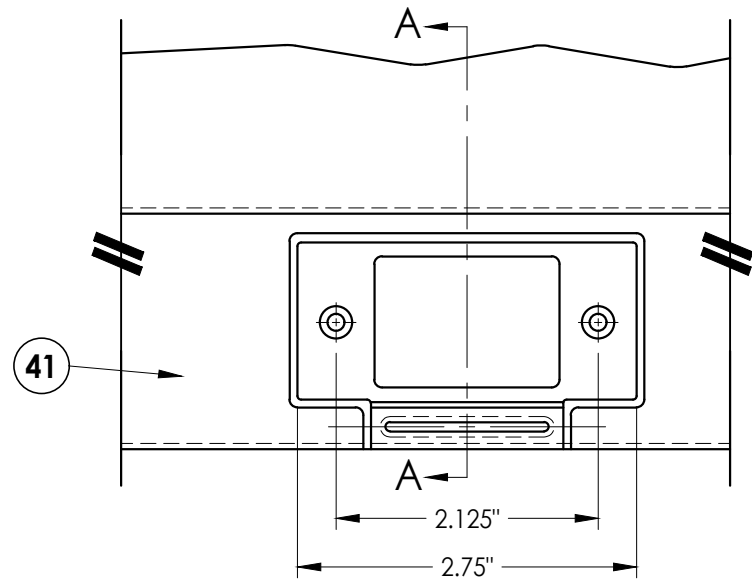
DATE: 6/3/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-15341.6
SHEET 1 OF 8

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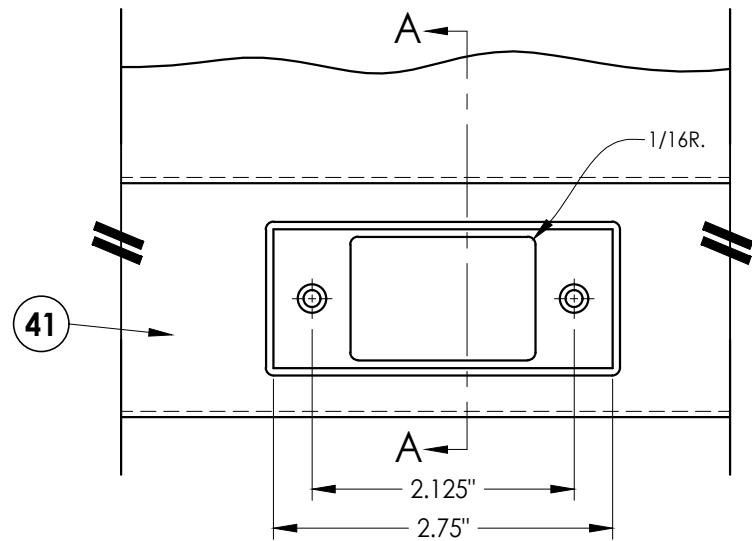


NOTES:

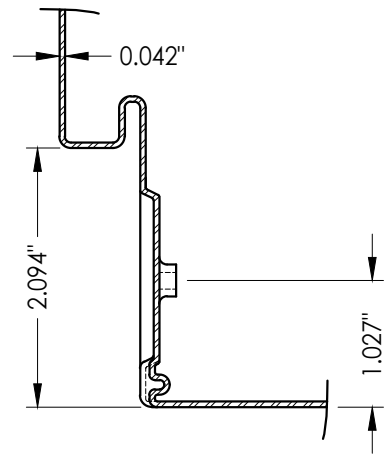
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



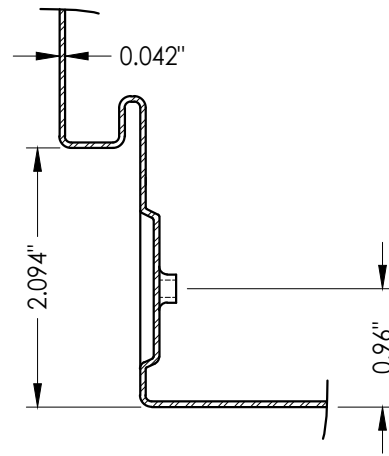
STRIKE AT LATCH



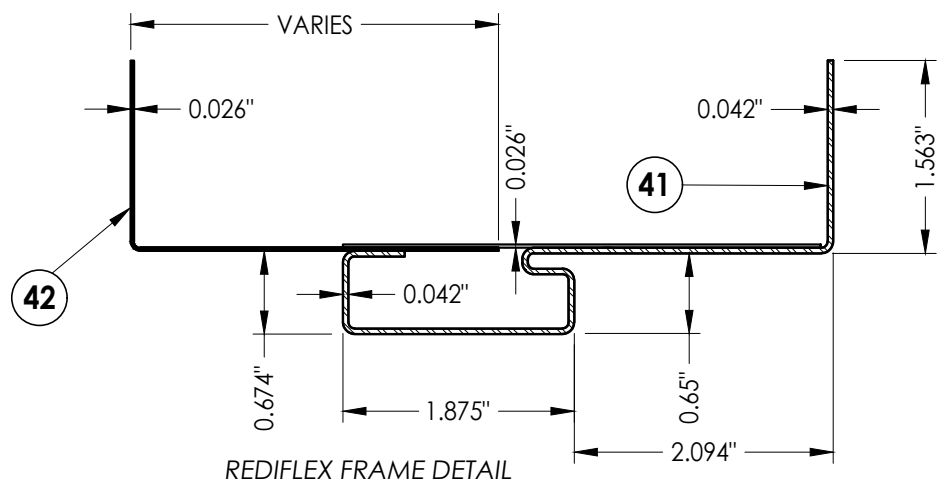
STRIKE AT DEADBOLT



SECTION A-A



SECTION A-A



REDIFLEX FRAME DETAIL

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 SECTIONS
& DETAILS

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
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

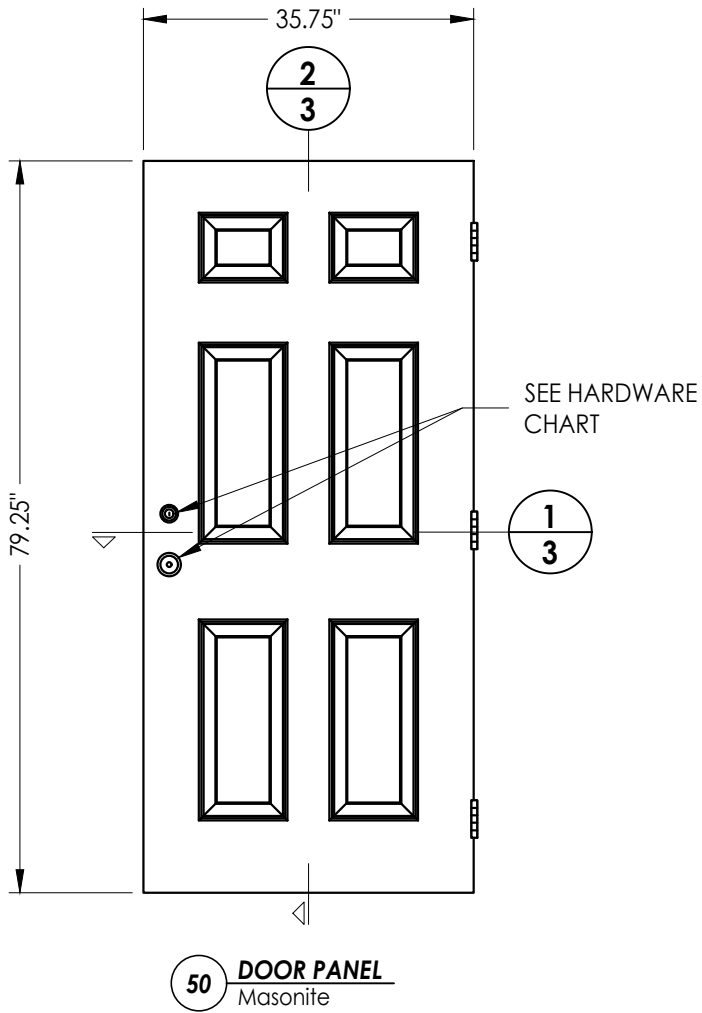
CHK. BY: LFS

DRAWING NO.:

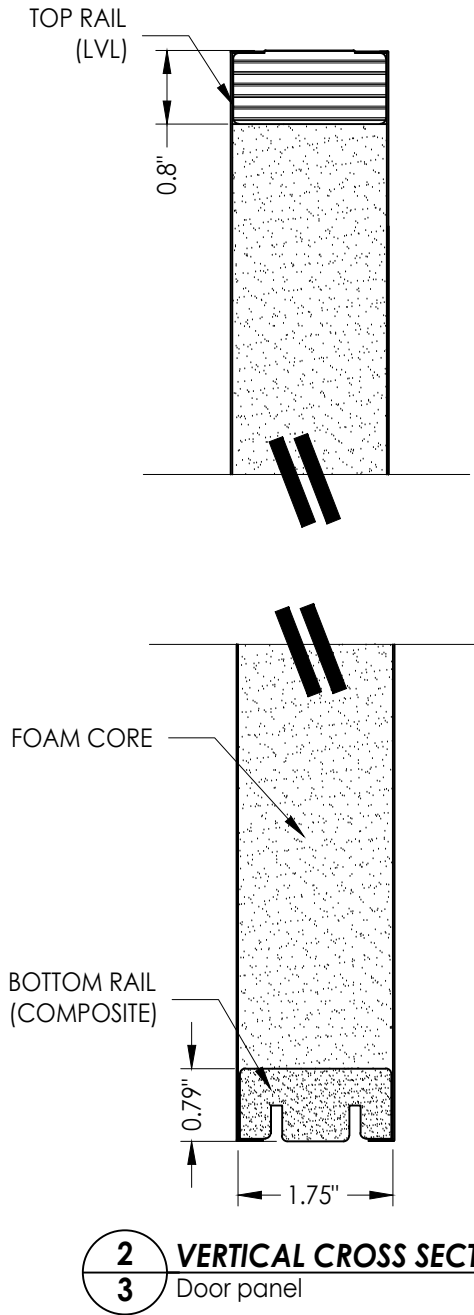
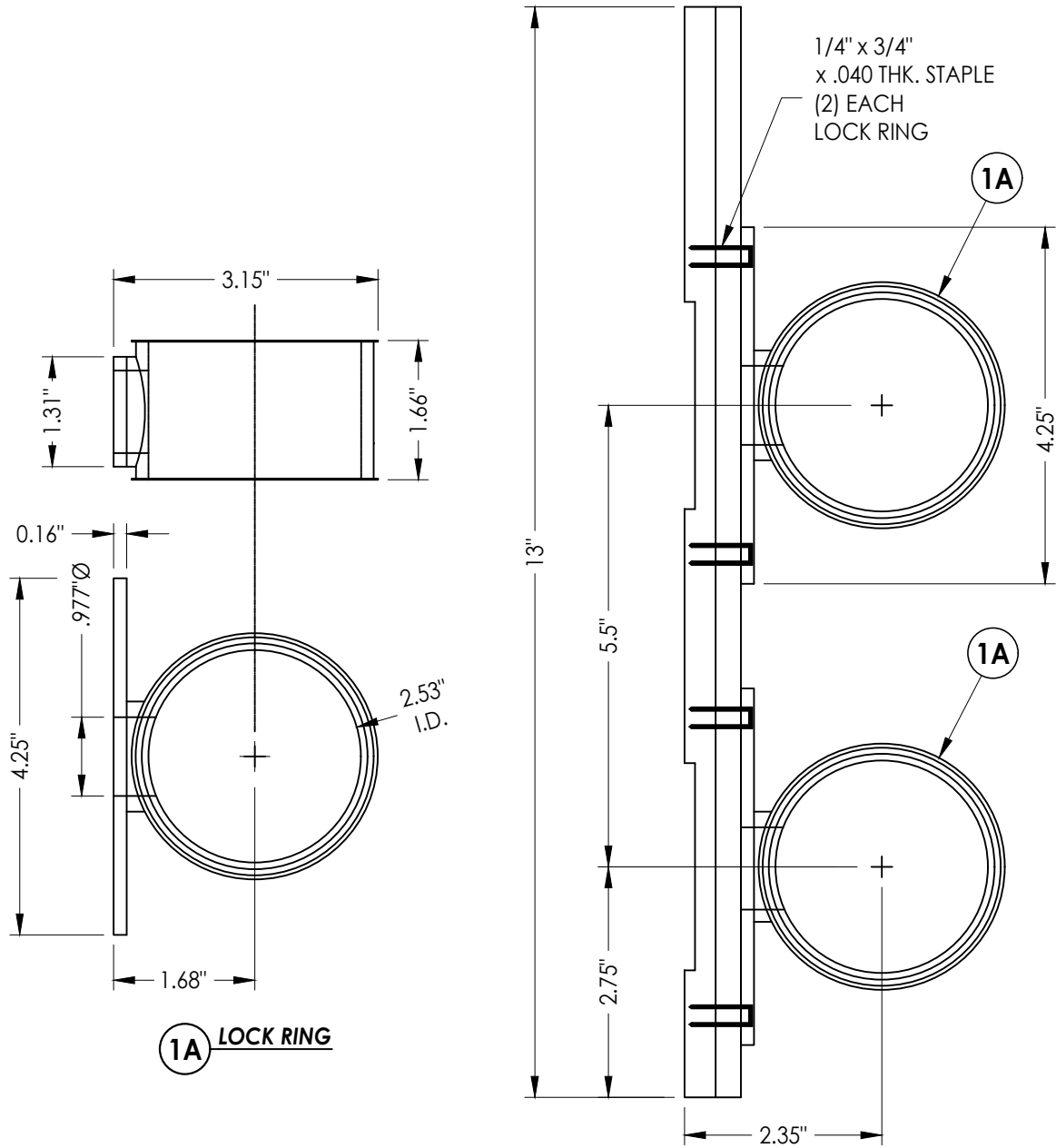
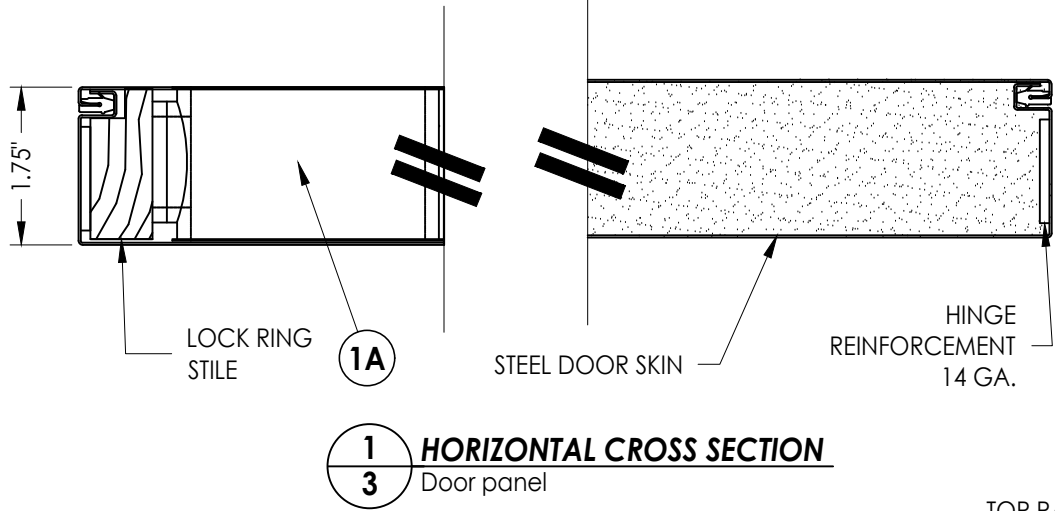
FL-15341.6

SHEET 2 OF 8

HARDWARE CHART		
MANUFACTURER	MODEL	
Kwikset	LEVER:	200DL
	DEADBOLT:	Signature Series 980
Schlage	LOCK:	F51
	DEADBOLT:	B60N



STEEL SKIN: 0.020" MIN. THICK (Fy = 33,000 PSI MIN.)
FOAM CORE: POLYURETHANE (2.0 PCF DENSITY, BASF)

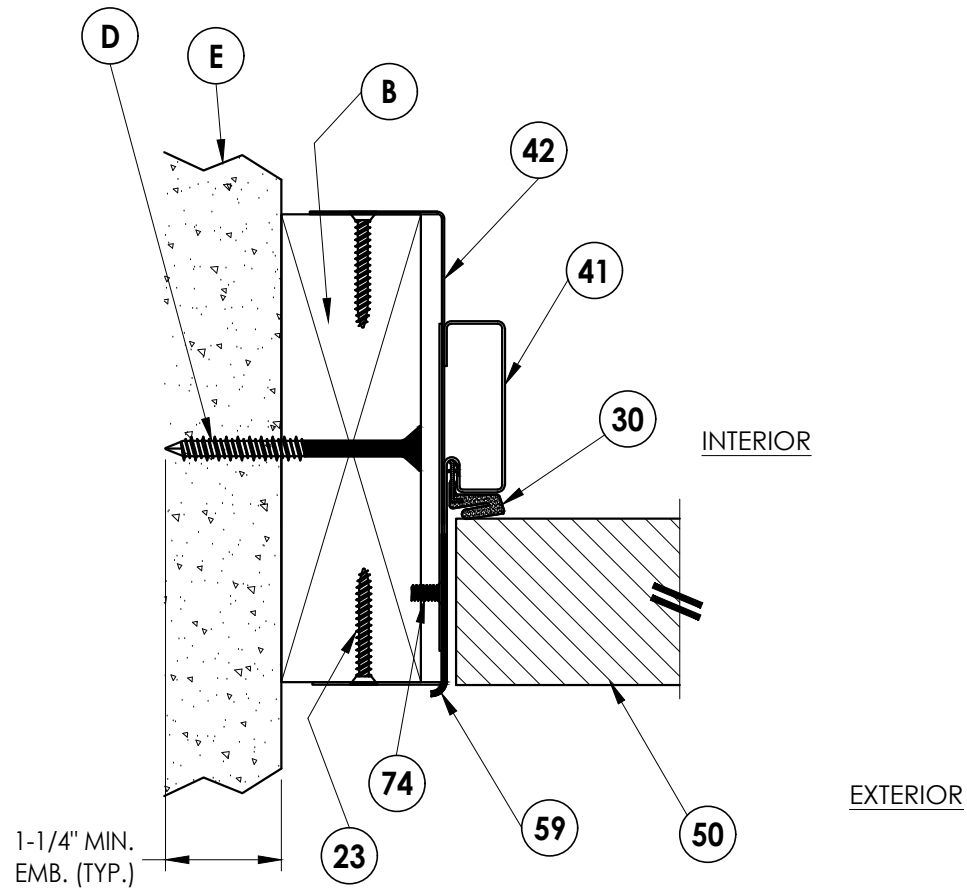
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Documents Prepared By:
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P.E. No. 43409

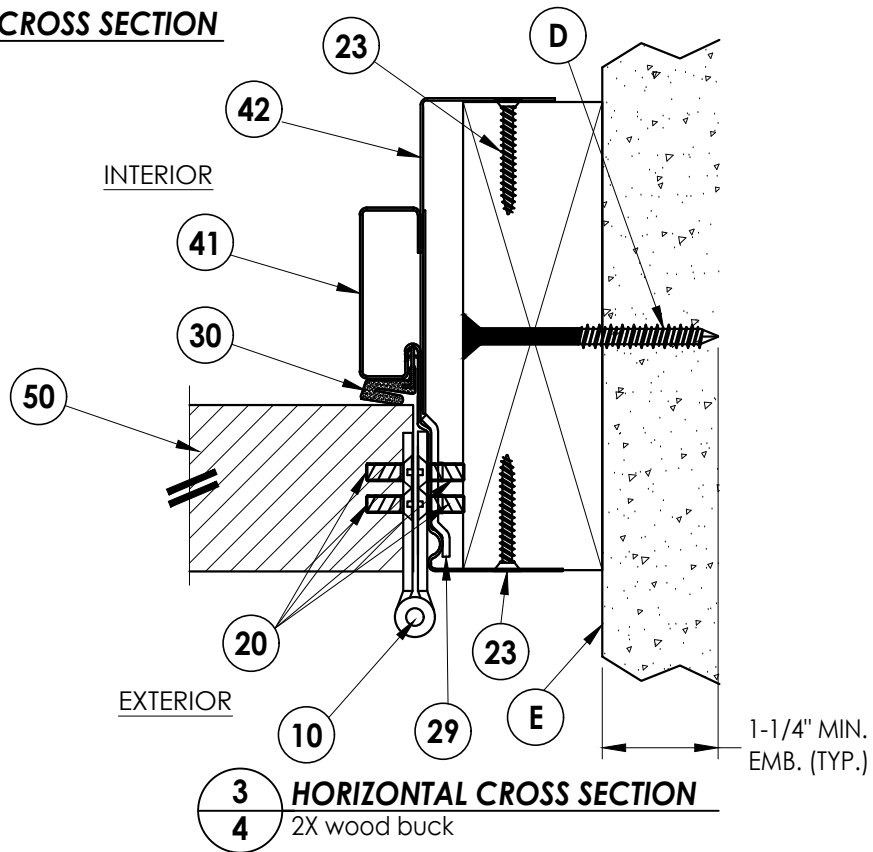
RW BUILDING CO.
P.O. Box 23
Phone No.:
FBPE Register

R⁹W
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

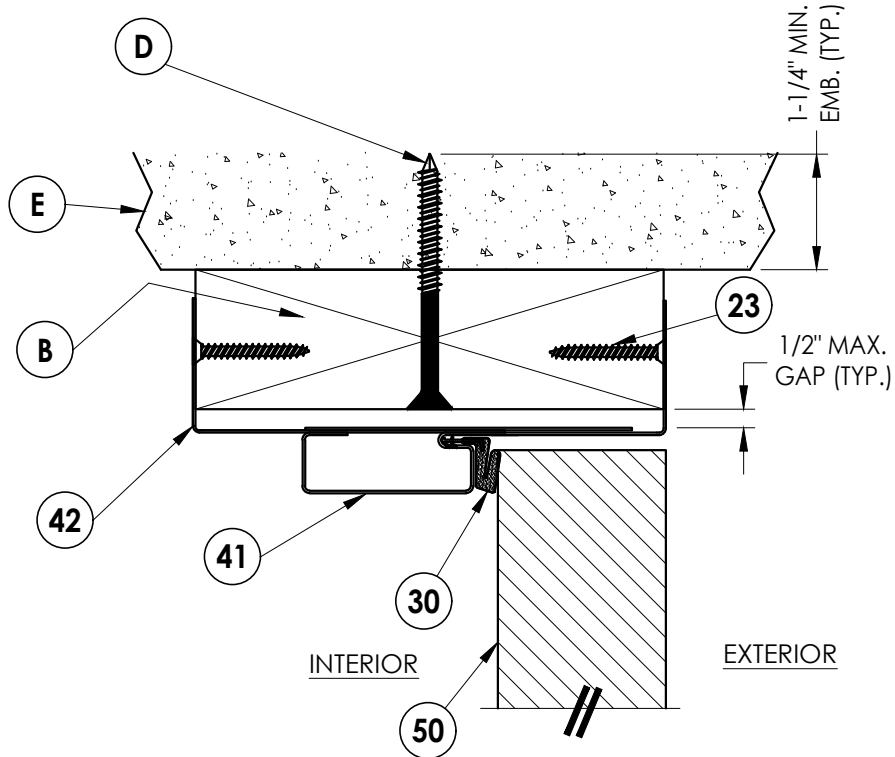
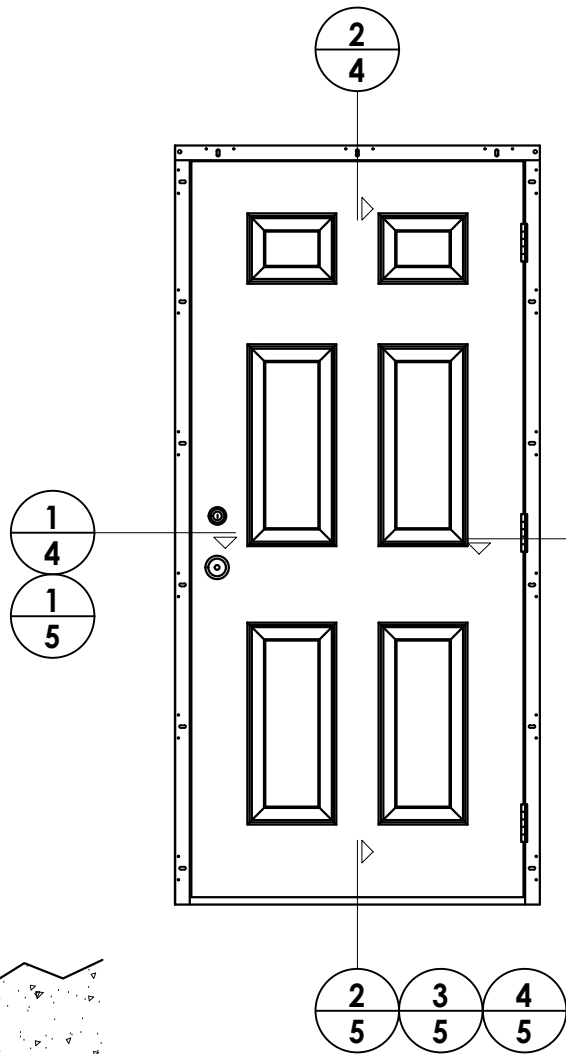
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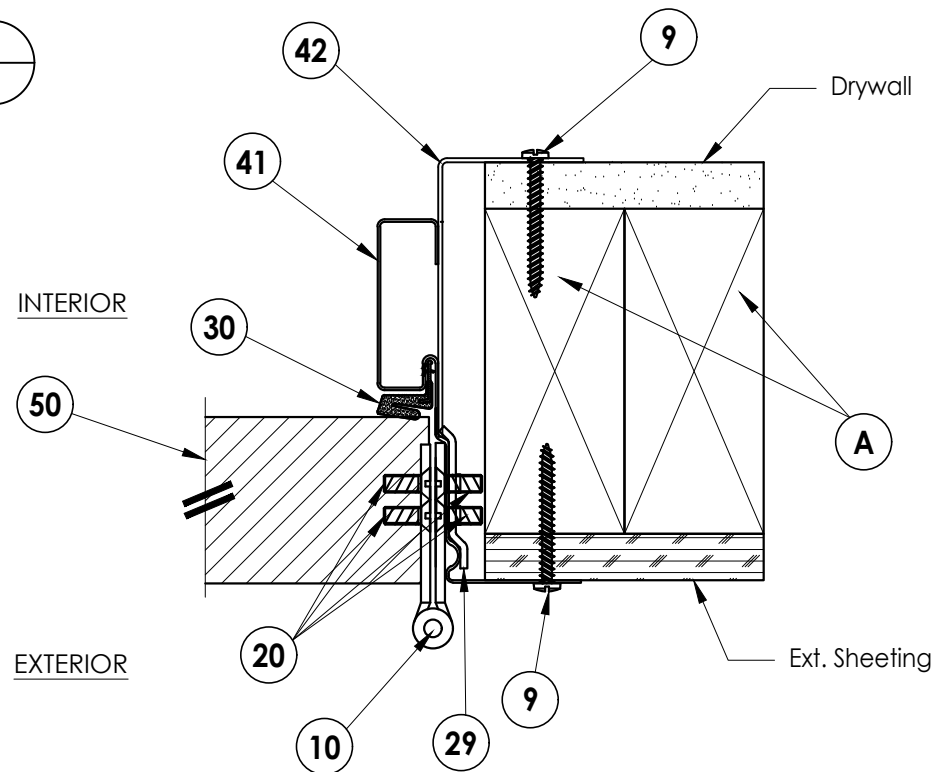
1
4 HORIZONTAL CROSS SECTION
2X wood buck



3
4 HORIZONTAL CROSS SECTION
2X wood buck



2
4 VERTICAL CROSS SECTION
2X wood buck



4
4 HORIZONTAL CROSS SECTION
Optional 2X Stud Construction

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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

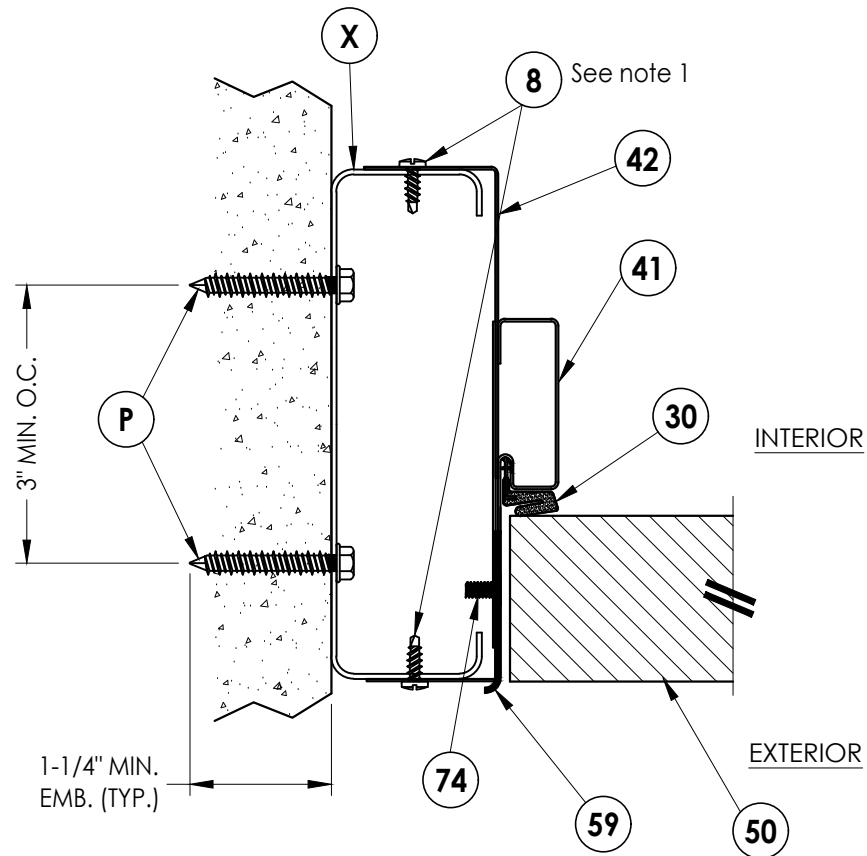
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS

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
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-15341.6
SHEET 4 OF 8

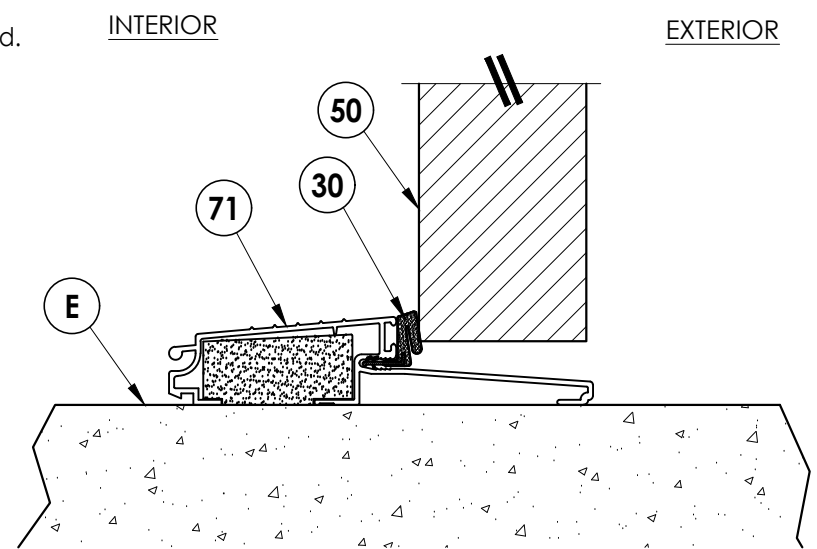
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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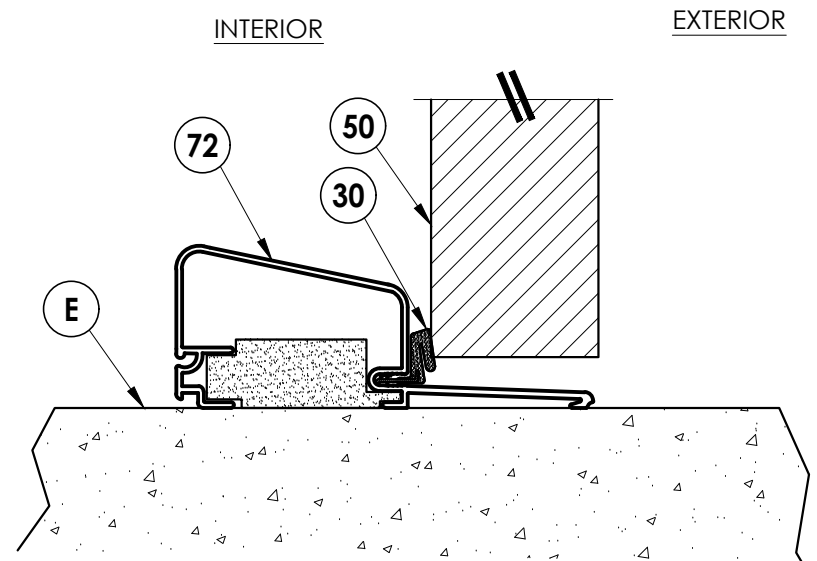


1 HORIZONTAL CROSS SECTION
5 Optional steel stud construction

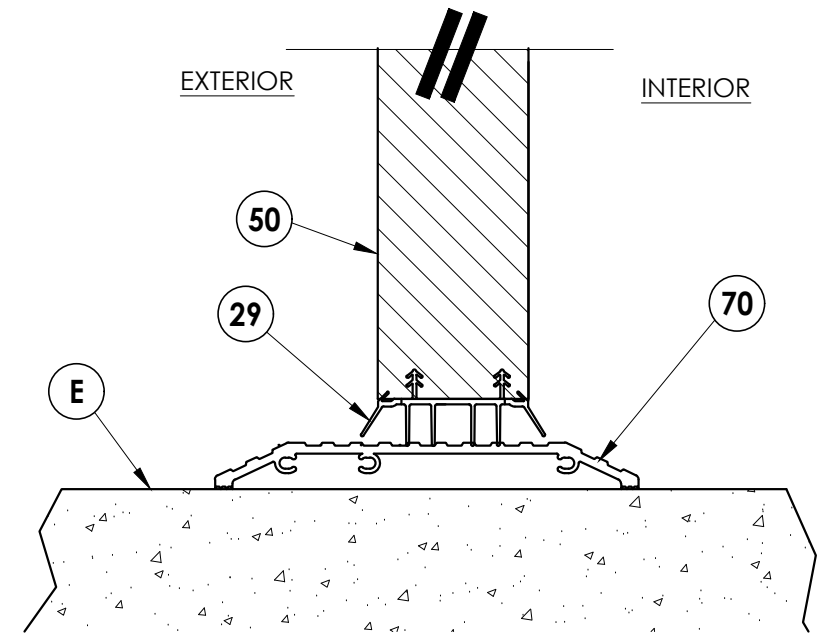
Note:
1. A minimum of three threads must protrude completely through the supporting steel stud.



2 VERTICAL CROSS SECTION
5 Shown w/ Outswing Threshold



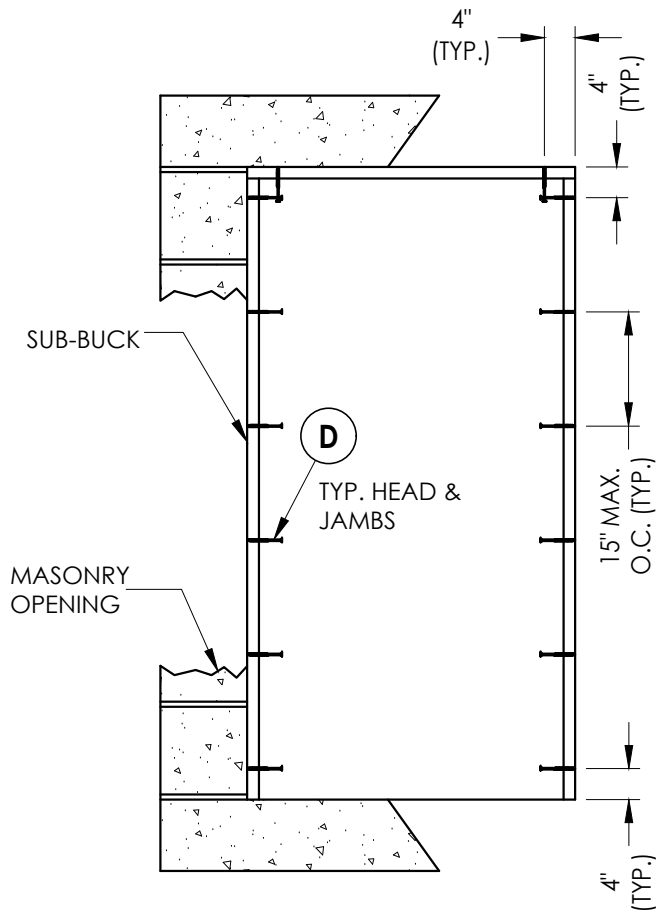
3 VERTICAL CROSS SECTION
5 Shown w/ High Dam Threshold



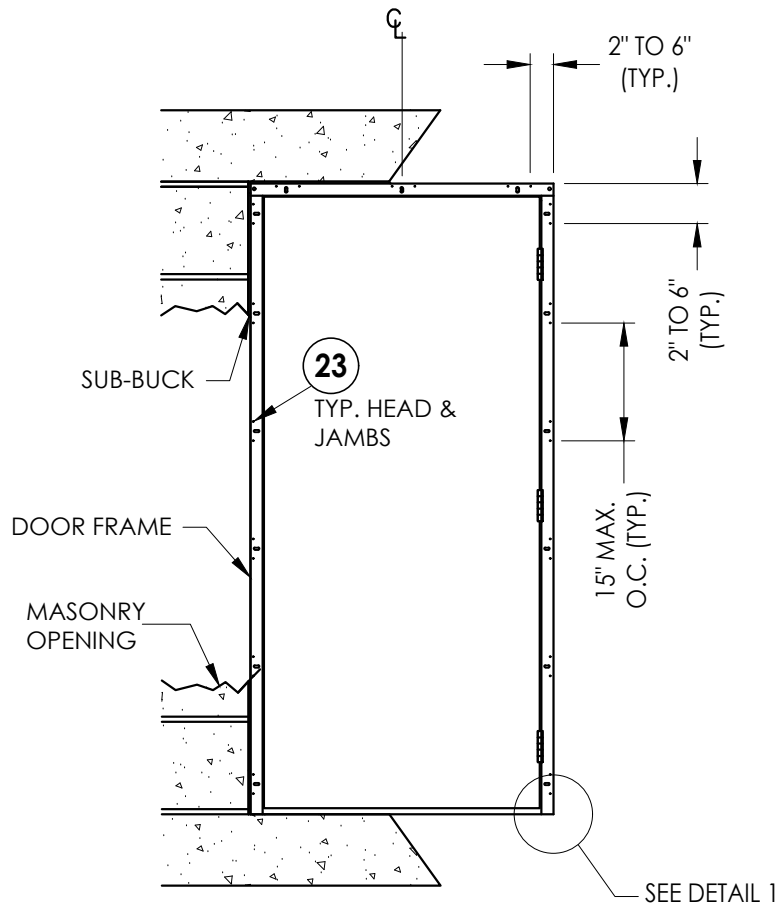
4 VERTICAL CROSS SECTION
5 Shown w/ ADA Threshold

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 & VERTICAL CROSS SECTIONS	
		LFS	JK
		FBC	BY
		(2023)	
		FBC	
		(2020)	
		FBC	
		(2017)	
		FBC	
		(2014)	
		FBC	
		JK	
		BY	
		DATE	
		NO.	
		REVISIONS	
		DATE	
		6/3/13	
		N.T.S.	
		JK	
		LFS	
		FL-15341.6	
		5	8

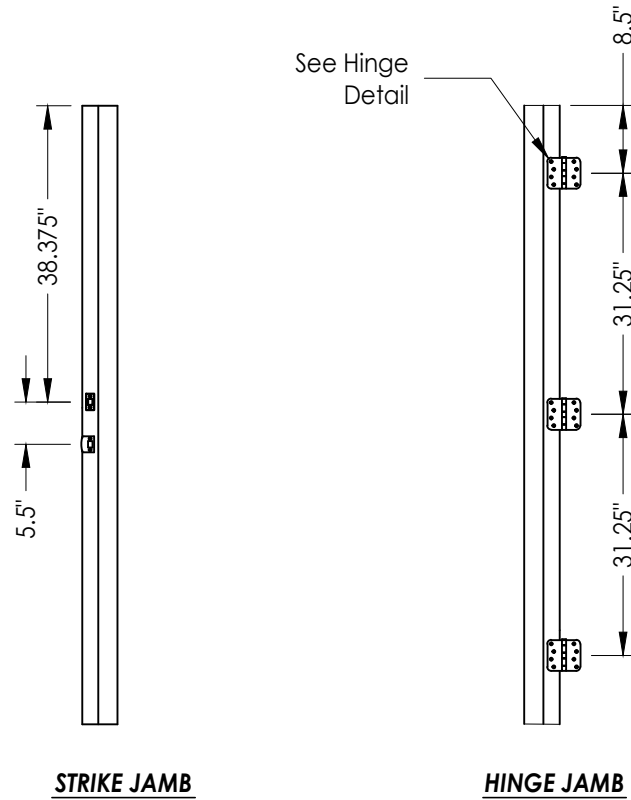
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BUCK ANCHORING
Masonry 2X buck construction



FRAME ANCHORING
Masonry 2X buck construction



STRIKE JAMB

HINGE JAMB

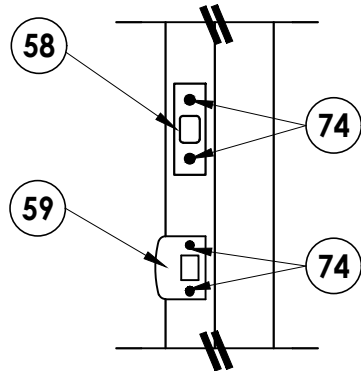
CONCRETE ANCHOR NOTES:

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

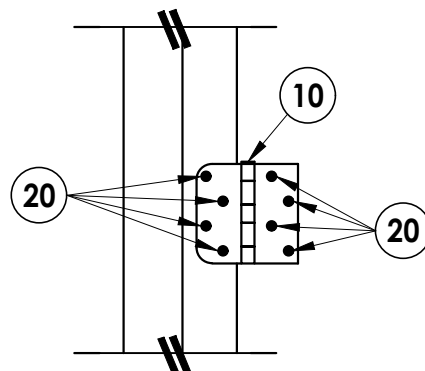
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

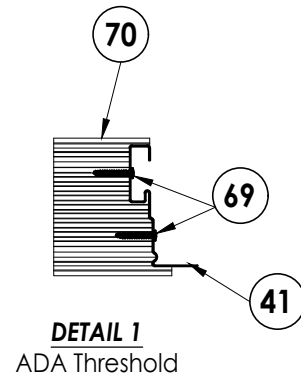
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



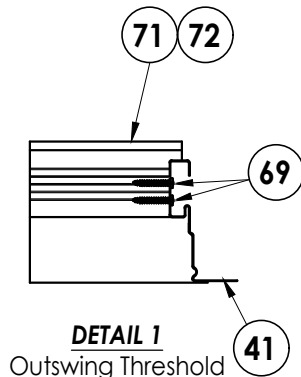
STRIKE PLATE DETAIL



HINGE DETAIL



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 AND FRAME ANCHORING
MASONRY 2X BUCK

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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DATE: 6/3/13

SCALE: N.T.S.

DWG. BY: JK

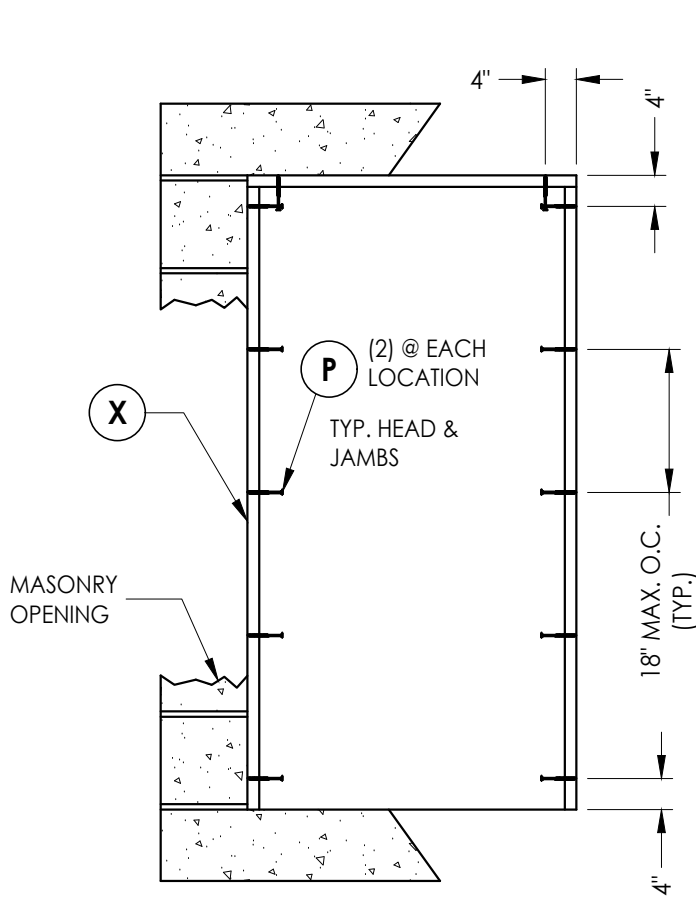
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DRAWING NO.:

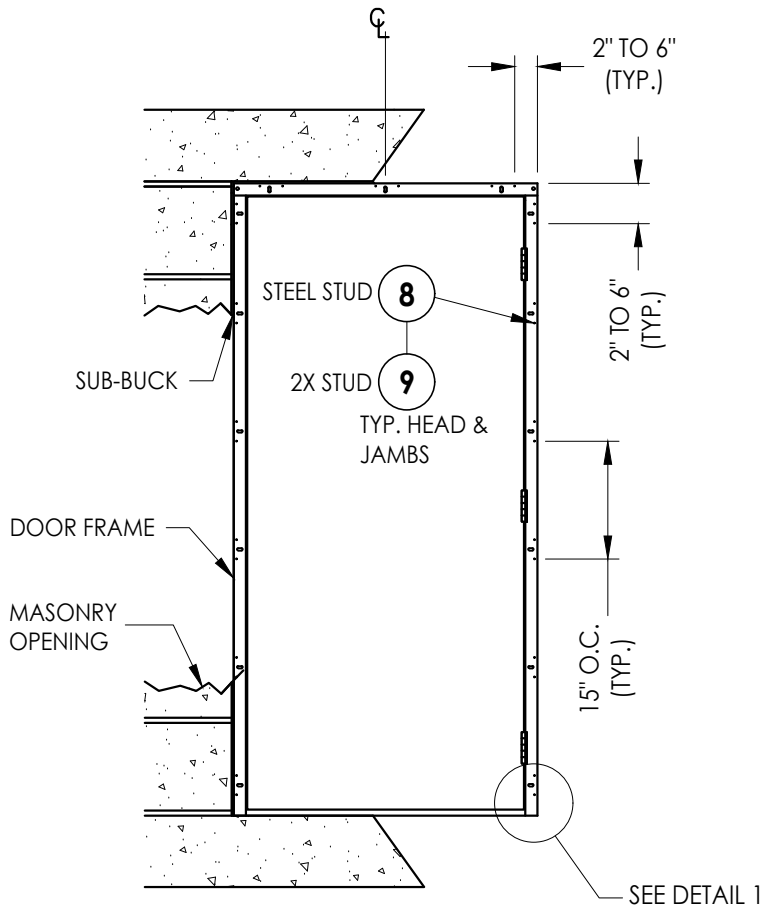
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SHEET 6 OF 8

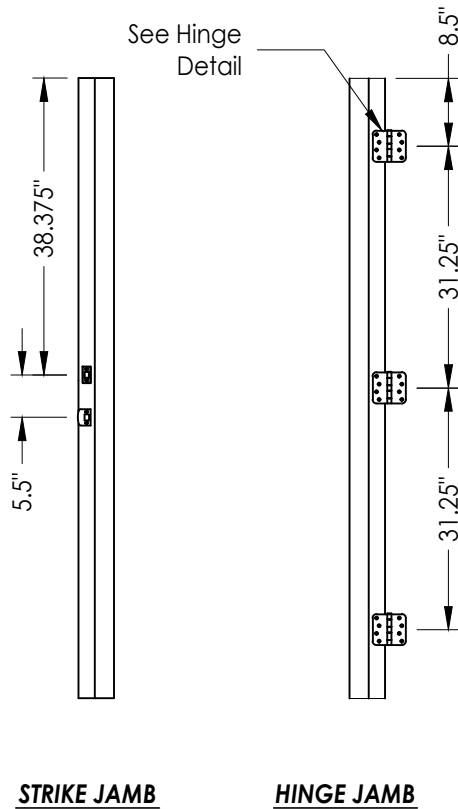
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BUCK ANCHORING
Masonry steel stud construction



FRAME ANCHORING
Stud construction



STRIKE JAMB

HINGE JAMB

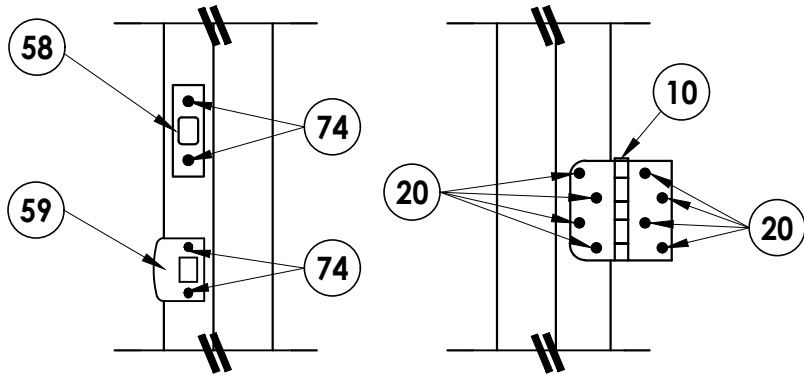
CONCRETE ANCHOR NOTES:

- 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" / 3" (steel stud)
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

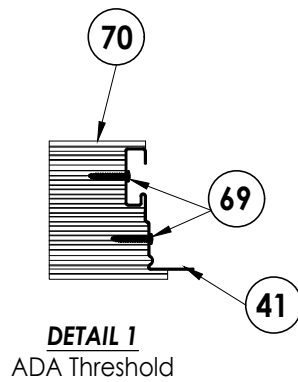
WOOD SCREW INSTALLATION NOTES:

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

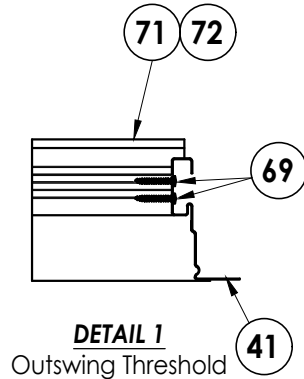


STRIKE PLATE DETAIL

HINGE DETAIL



DETAIL 1
ADA Threshold



DETAIL 1
Outswing Threshold

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

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

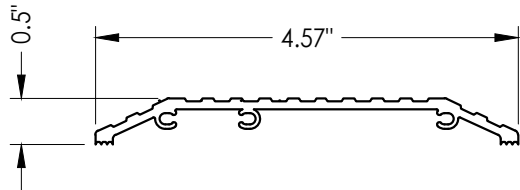
DRAWING NO.: FL-15341.6

SHEET 7 OF 8

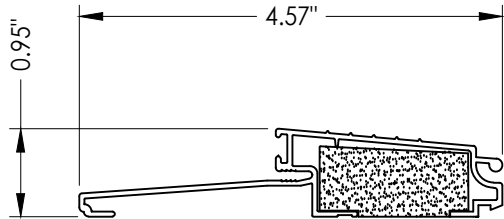
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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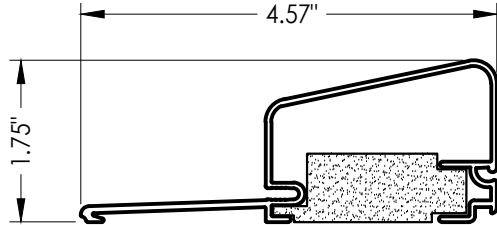
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X FRAMING: SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
P	1/4" X 1-3/4" ITW HWH CONCRETE SCREW	STEEL
X	SSMA STUD 550S162-54 (Fy = 33 ksi, Fu = 45 ksi)	STEEL
8	10-16 TEKS SELF-DRILLING SCREW (ITW BUILDEX)	STEEL
9	#6 X 2" PFH WS (1-3/8" MIN. EMBEDMENT)	STEEL
10	HINGE	STEEL
20	10-24 X 1/2" PFH MS	STEEL
23	#6 X 1-1/2" PFH WOOD SCREW (1-3/8" 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. (.042" MIN. GALV. STEEL) BY DUNBARTON	STEEL
42	REDIFLEX JAMB CLOSURE 22 GA. (.026" MIN. GALV. STEEL) BY DUNBARTON	STEEL
50	STEEL DOOR PANEL - by MASONITE	-
58	STRIKE PLATE - DEADBOLT	STEEL
59	STRIKE PLATE - LATCHBOLT	STEEL
69	#8 X 1-1/4" PWH SMS	STEEL
70	ADA THRESHOLD	ALUM
71	OUTSWING THRESHOLD	ALUM
72	HIGH DAM OUTSWING THRESHOLD	ALUM
74	8-32 x 3/8" PFH MS	STEEL



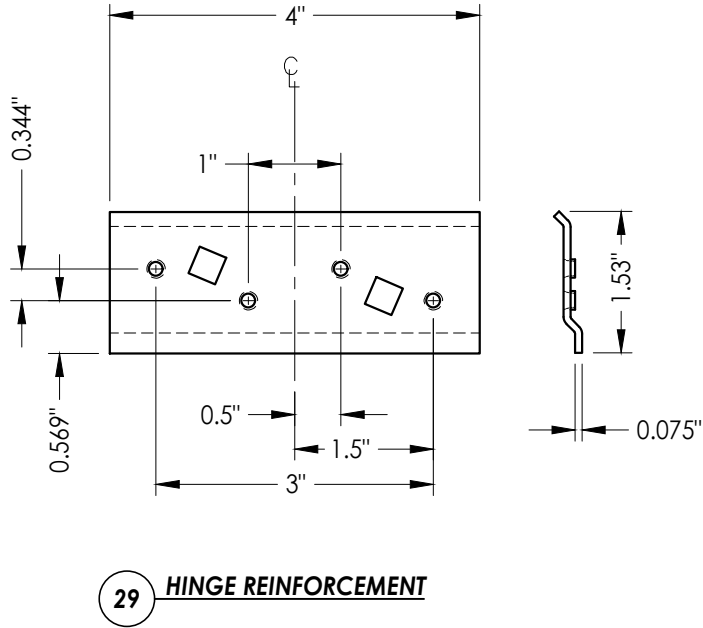
70 **ADA THRESHOLD**
Imperial



71 **OUTSWING THRESHOLD**
Imperial



72 **HIGH DAM THRESHOLD**
AFCO



29 **HINGE REINFORCEMENT**

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: BILL OF MATERIALS & COMPONENTS	
4	7/06/23	UPDATE TO 8TH ED. (2023)	FBC
3	8/11/20	UPDATE TO 7TH ED. (2020)	FBC
2	9/30/17	UPDATE TO 6TH ED. (2017)	FBC
1	3/23/15	UPDATE TO 5TH ED. (2014)	FBC
	NO.	DATE	BY
REVISIONS			
DATE: 6/3/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
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