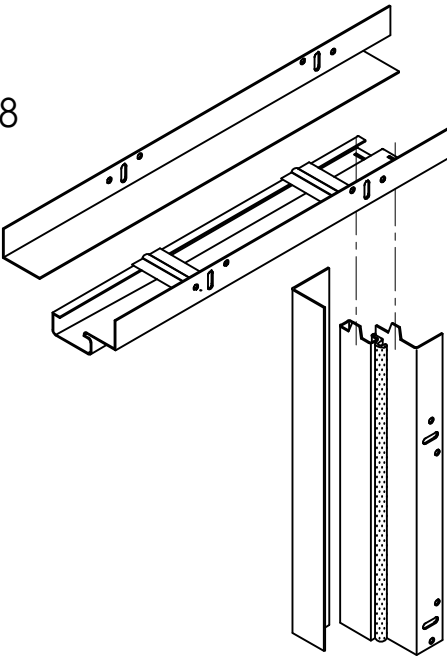


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21300 W 8 Mile Rd.
Southfield, MI 48075-5638



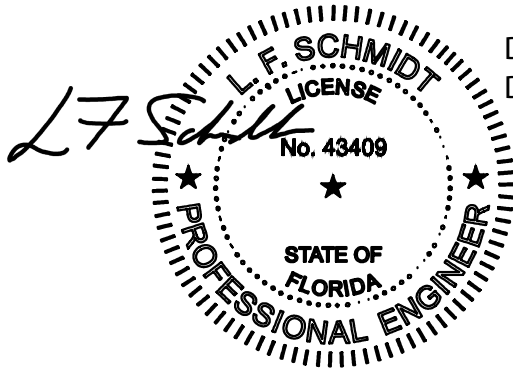
ADJUSTABLE STEEL DOOR FRAME
K2A-Series

ENTRY-FIT™ "K2A-Series"
ADJUSTABLE STEEL DOOR FRAME
Utilizing a Steel Door Panel
INSWING / OUTSWING
"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.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

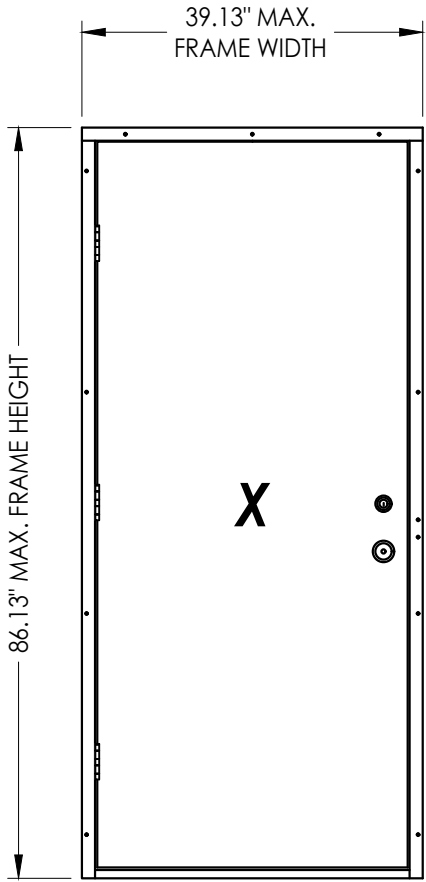
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details
3	Elevation & Corner detail
4	Horizontal cross sections
5	Vertical cross sections
6	Buck & frame anchoring (7'-0" door)
7	Bill of materials & components



Digitally signed by Lyndon F Schmidt
Date: 2023.07.19 10:09:34 -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



DOOR PANEL	MAX. OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
JELD-WEN	39.13" X 86.13"	+ 65.0	- 70.0	+ 70.0	- 70.0

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

PRODUCT:

IDP
STEEL FRAME (K2A-SERIES)

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN
PRESSURE & GENERAL NOTES

DATE: 1/22/20

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-31317.5

SHEET 1 OF 7

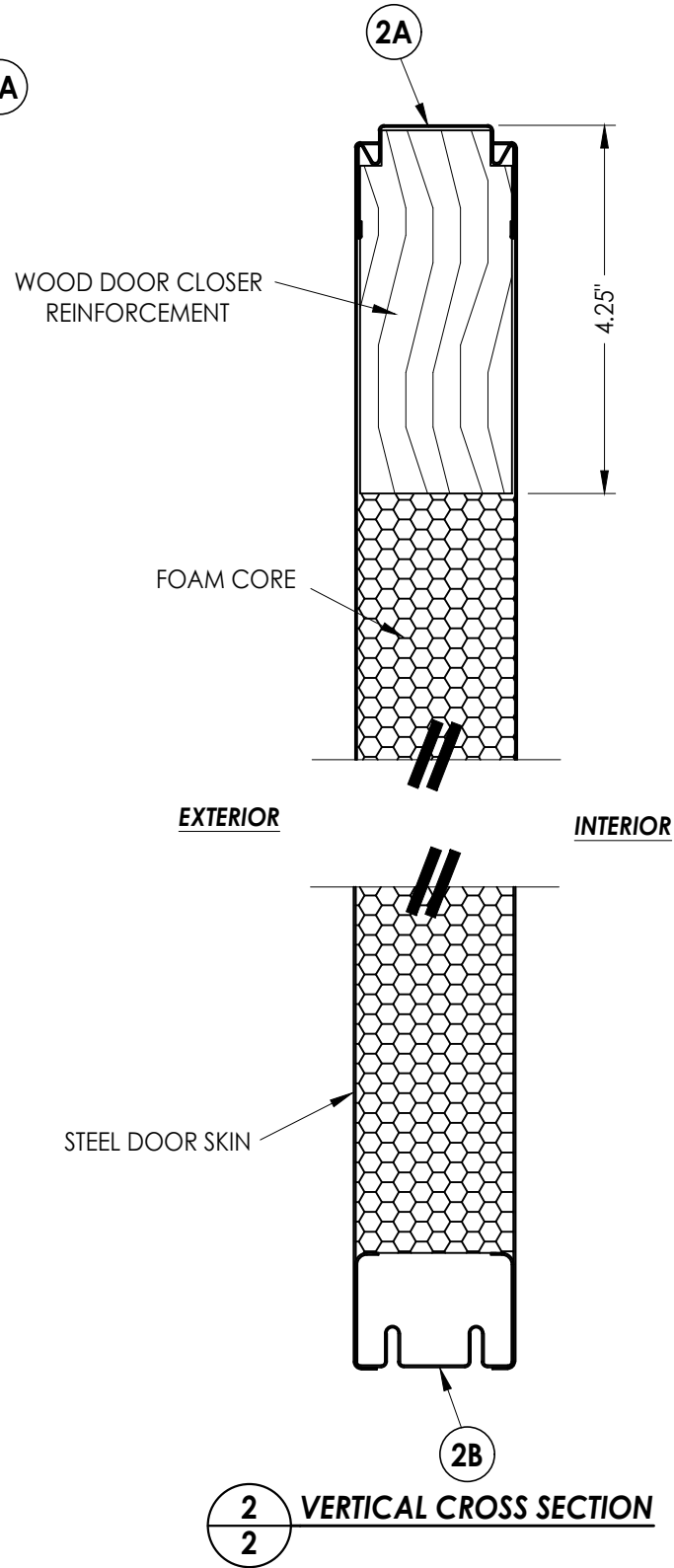
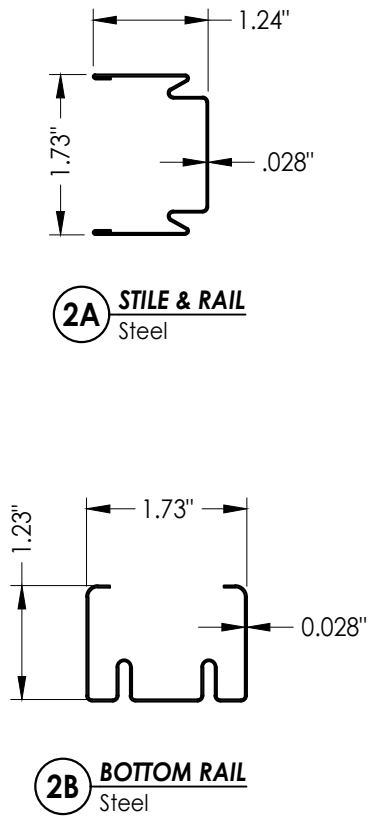
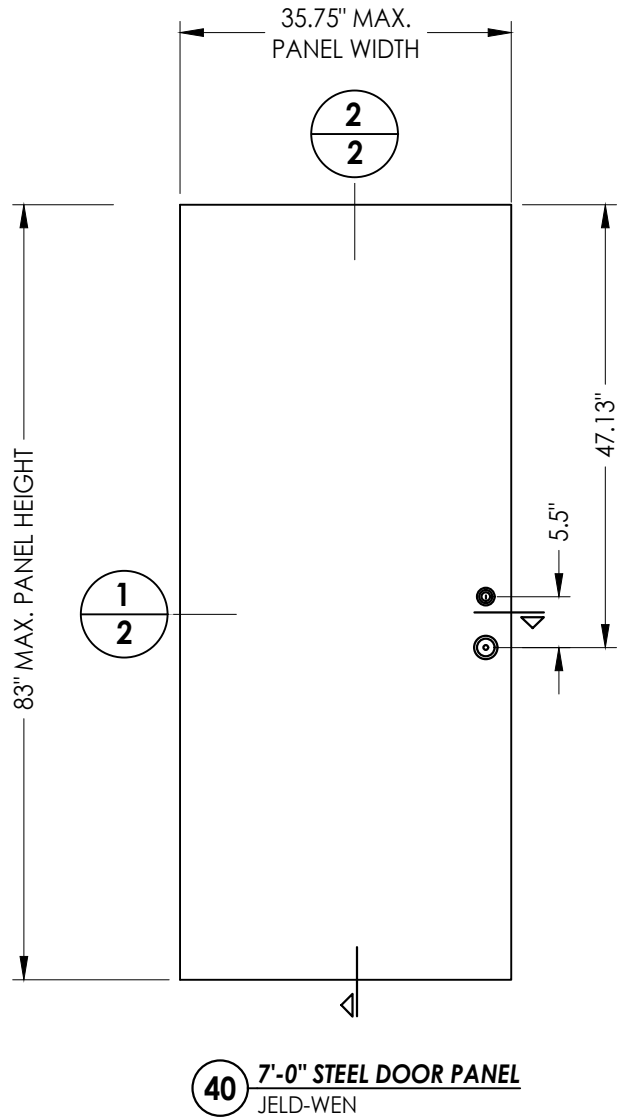
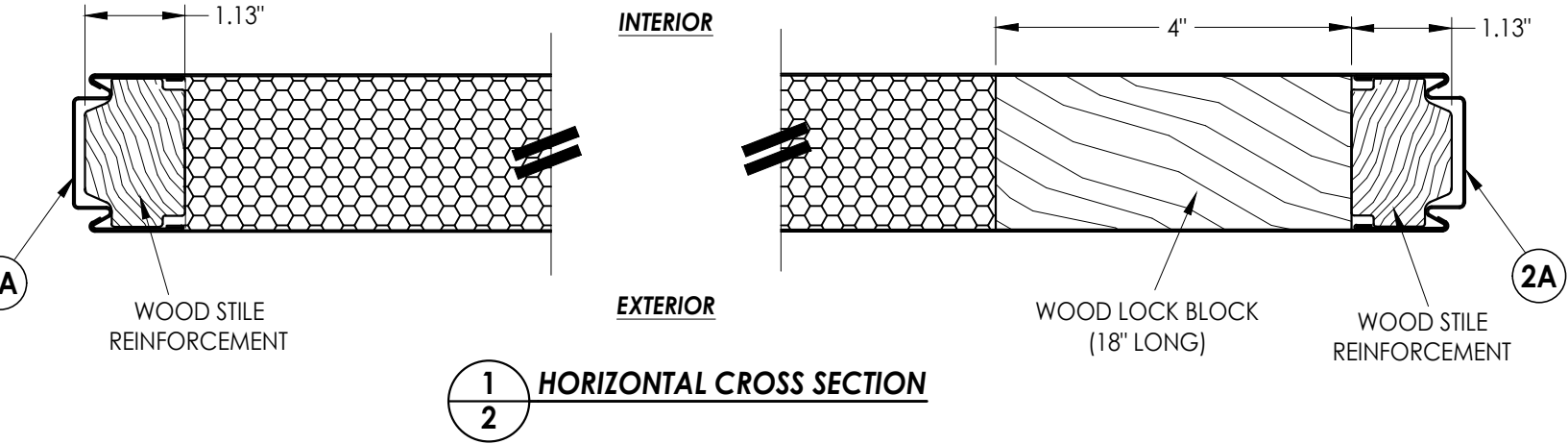
REVISIONS

NO.	DATE	DESCRIPTION
2	7/19/23	UPDATE TO 8TH ED. (2023) FBC
1	8/31/20	UPDATE TO 7TH ED. (2020) FBC

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

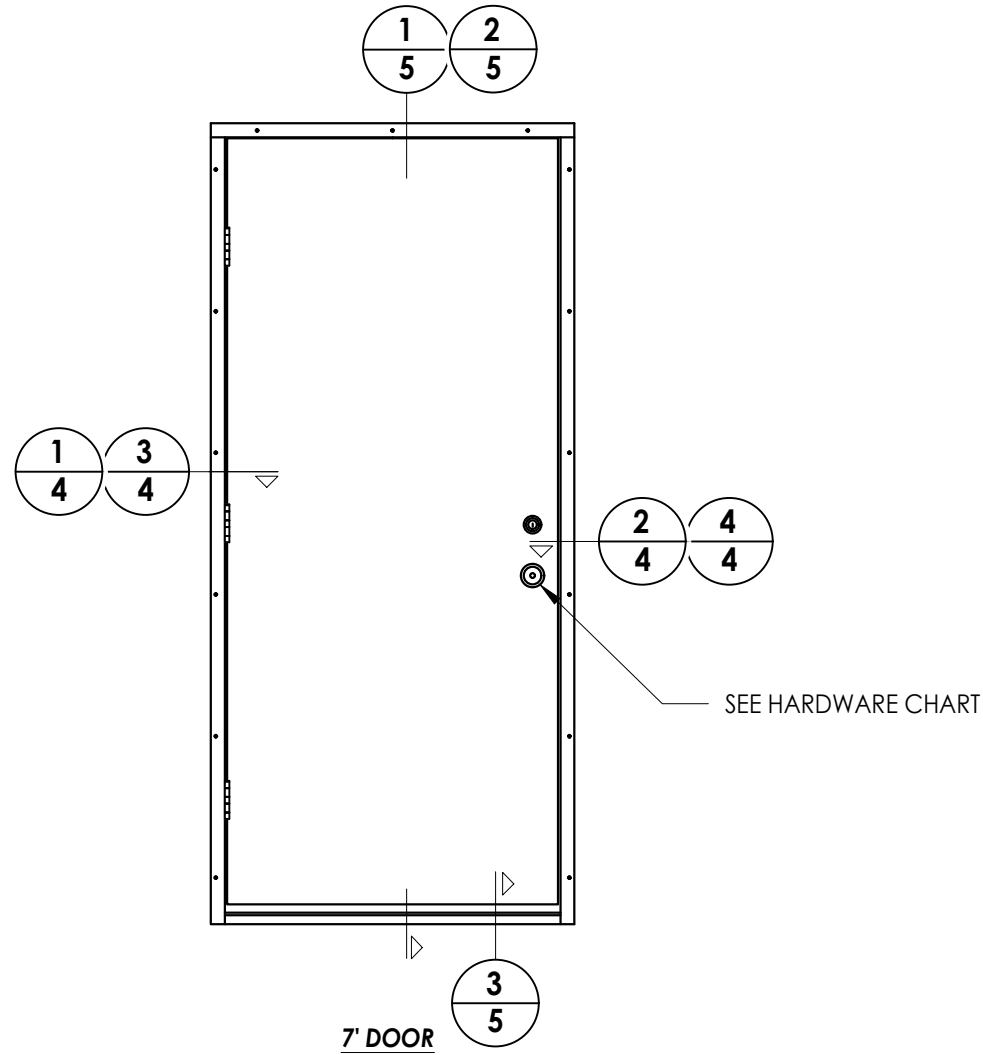
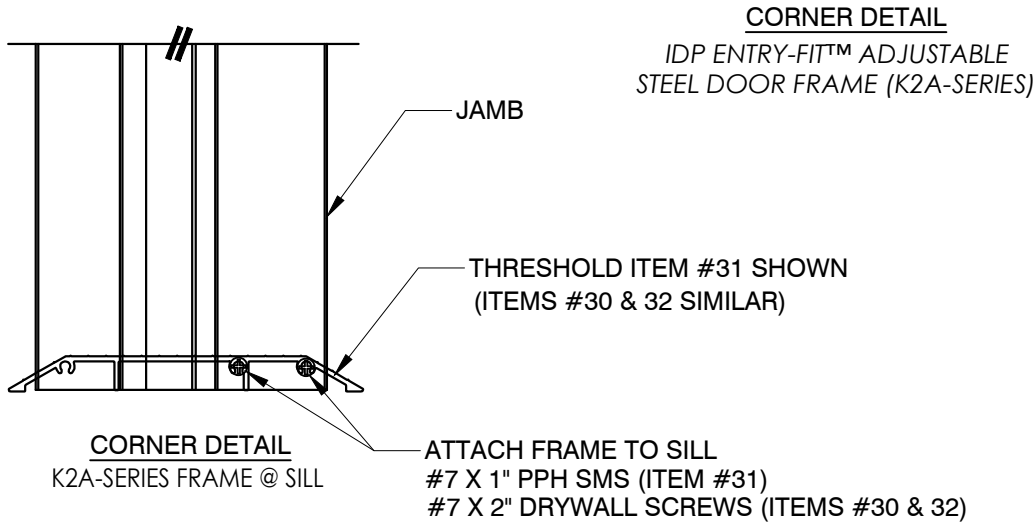
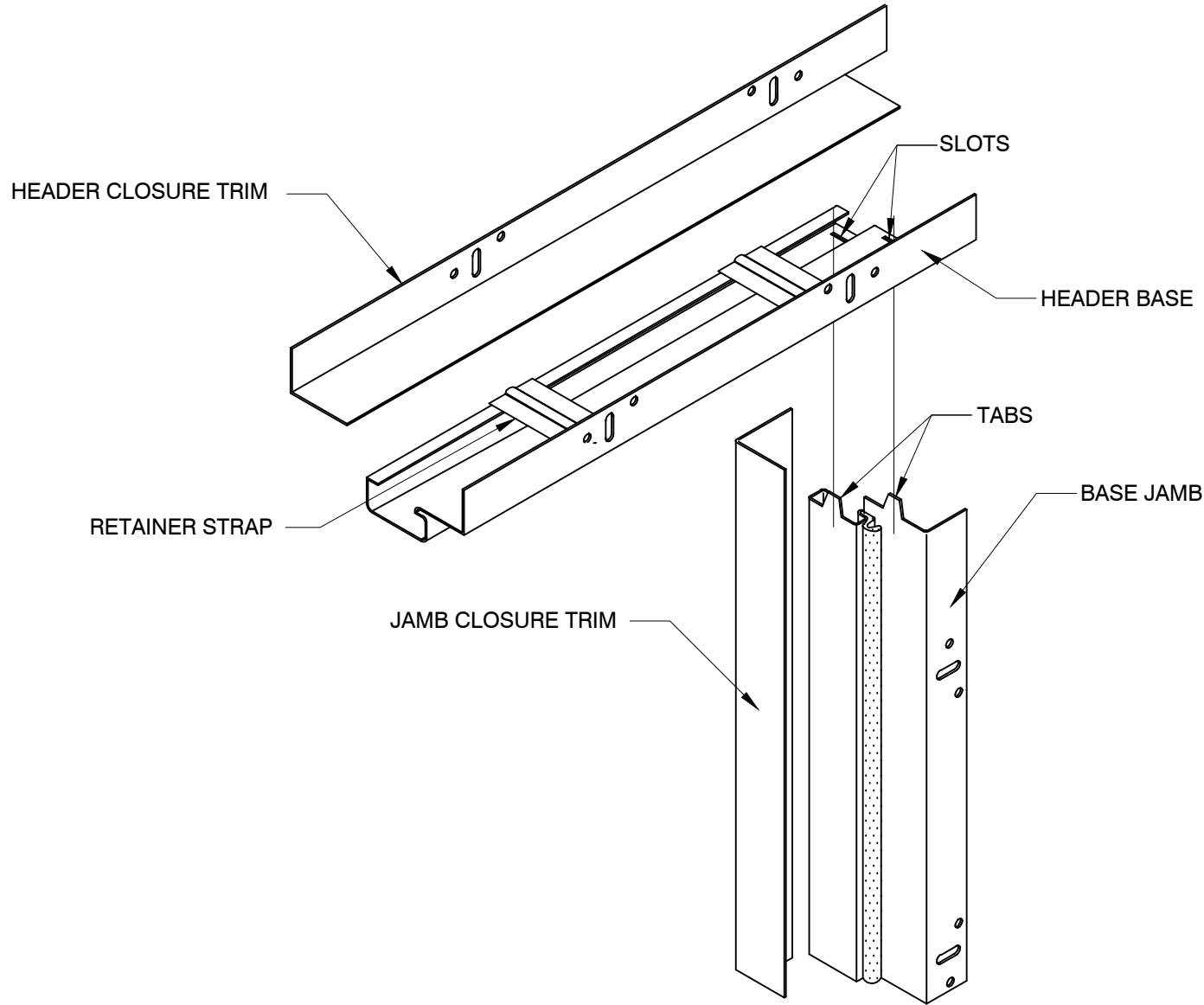
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GALVANIZED STEEL DOOR SKIN: 0.022" MIN. THK.
FOAM CORE: POLYSTYRENE

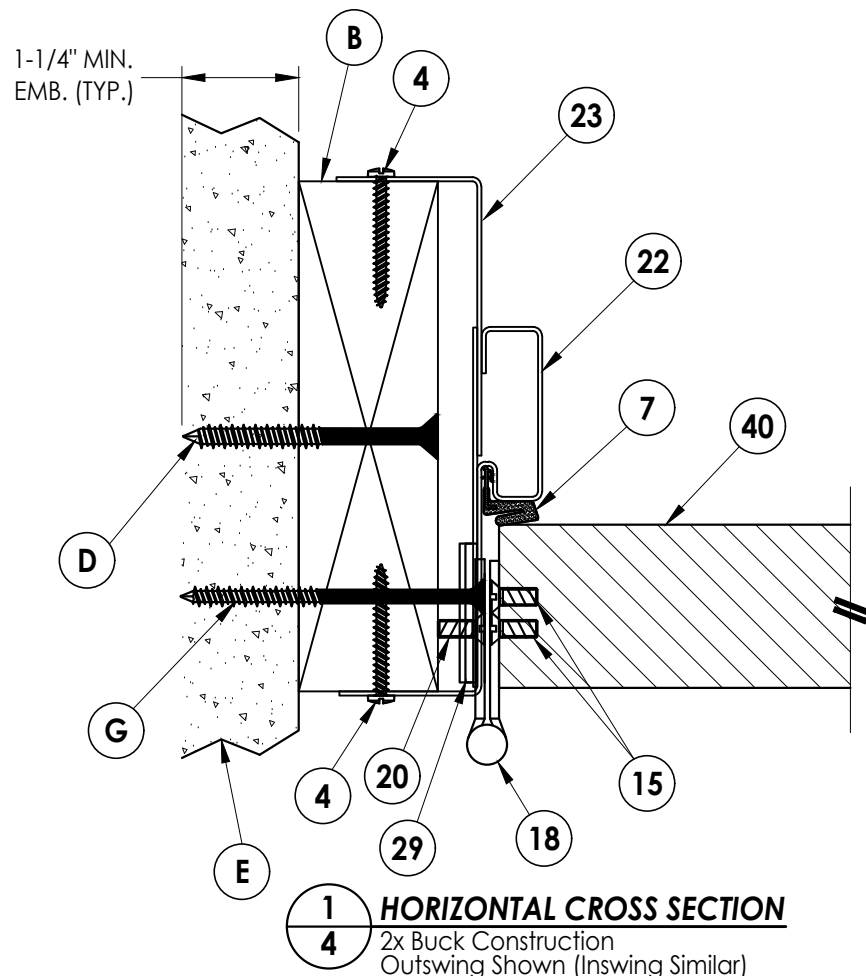
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: IDP STEEL FRAME (K2A-SERIES)		PART OR ASSEMBLY:		DOOR PANEL DETAILS			
				LFS	FBC	LFS	
				2	7/19/23	UPDATE TO 8TH ED. (2023)	
				1	8/31/20	UPDATE TO 7TH ED. (2020)	
				NO.	DATE		
				REVISIONS			
DATE: 1/22/20							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-31317.5							
SHEET 2 OF 7							

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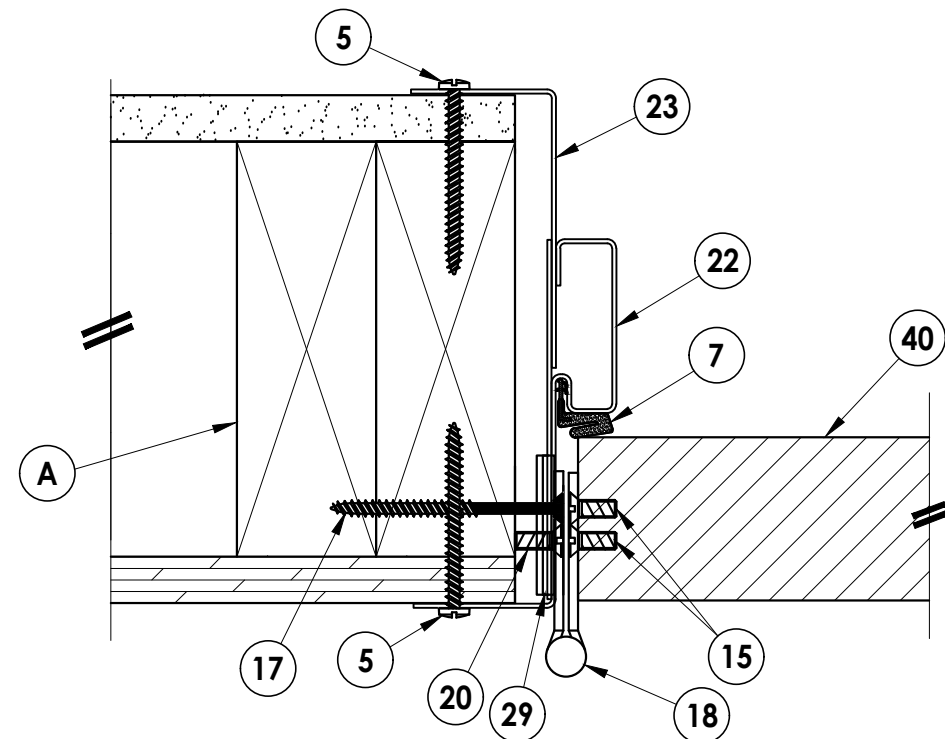


HARDWARE CHART		
MANUFACTURER	MODEL	
KWIKSET	LOCK:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (980)
SCHLAGE	LEVER:	"F" SERIES (F51)
	DEADBOLT:	B60N

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: IDP STEEL FRAME (K2A-SERIES)		PART OR ASSEMBLY: ELEVATION & CORNER DETAIL					
				LFS	FBC	DATE	REVISIONS
				1	8/31/20	UPDATE TO 7TH ED. (2020)	
				2	7/19/23	UPDATE TO 8TH ED. (2023)	
DATE: 1/22/20							
SCALE: N.T.S.							
DWG. BY: RW							
CHK. BY: LFS							
DRAWING NO.: FL-31317.5							
SHEET 3 OF 7							



1 4 **HORIZONTAL CROSS SECTION** 2x Buck Construction Outswing Shown (Inswing Similar)

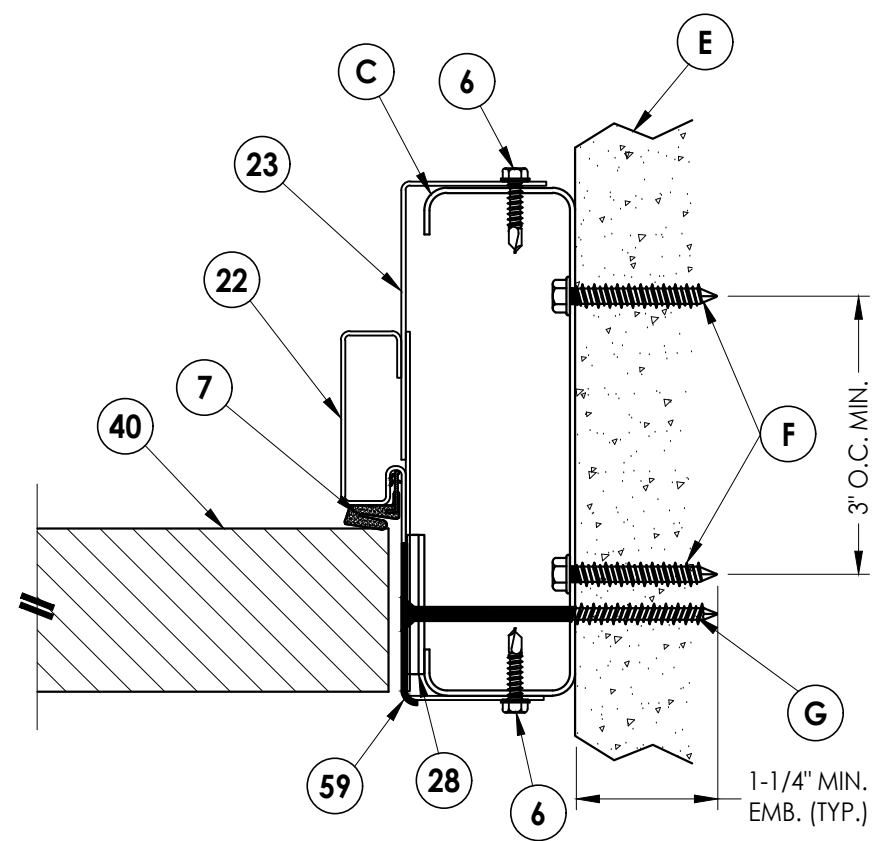


3 **HORIZONTAL CROSS SECTION**

4 2x Stud Construction Outswing Shown (Inswing Similar)

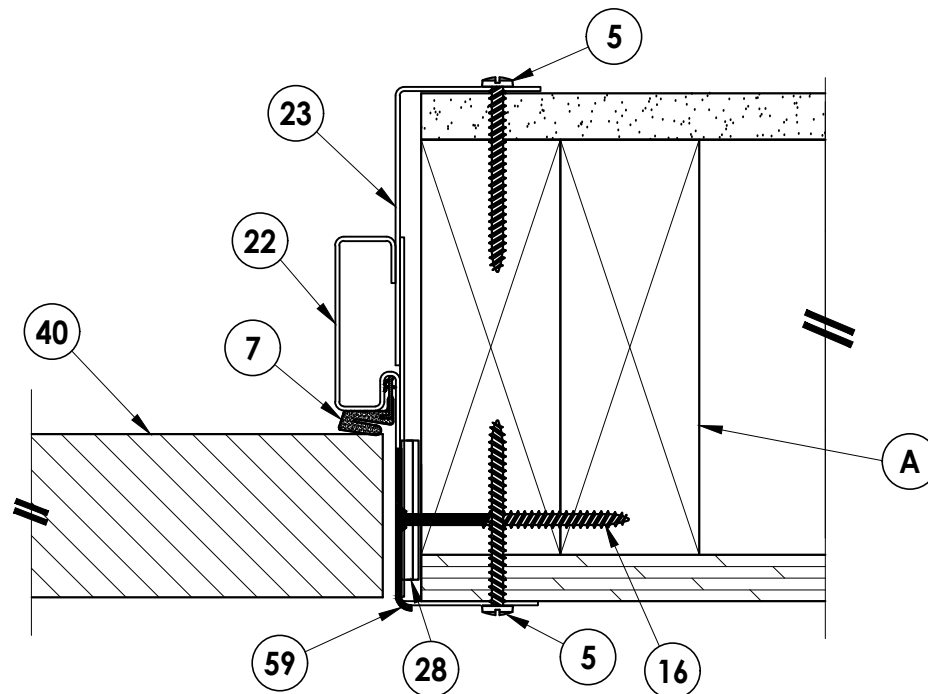
INTERIOR

EXTERIOR



2 **HORIZONTAL CROSS SECTION**

4 Steel Stud Construction Outswing Shown (Inswing Similar)



4 HORIZONTAL CROSS SECTION
2x Stud Construction
Outswing Shown (Inswing Similar)

2	7/19/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	8/31/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
NO.	DATE			BY	
				REVISIONS	

DATE: 1/22/20

SCALE: N.T.S.

DWG. BY: *RW*

CHK. BY: LFS

DRAWING NO.:

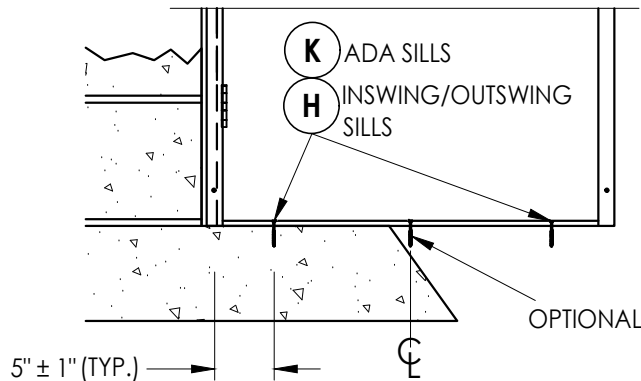
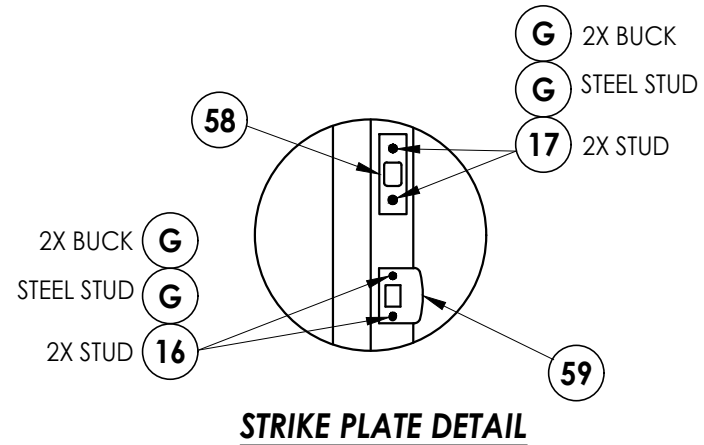
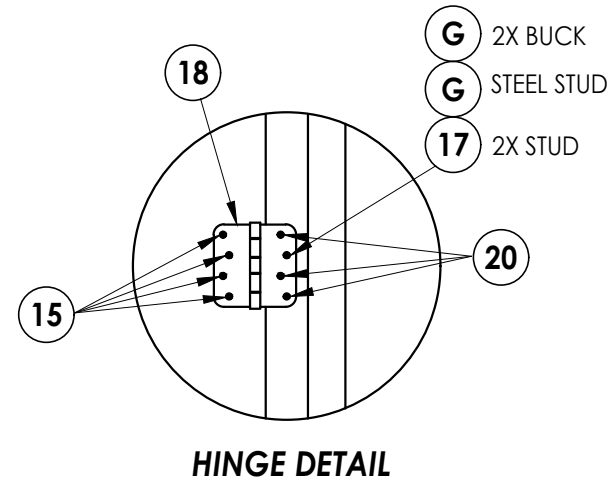
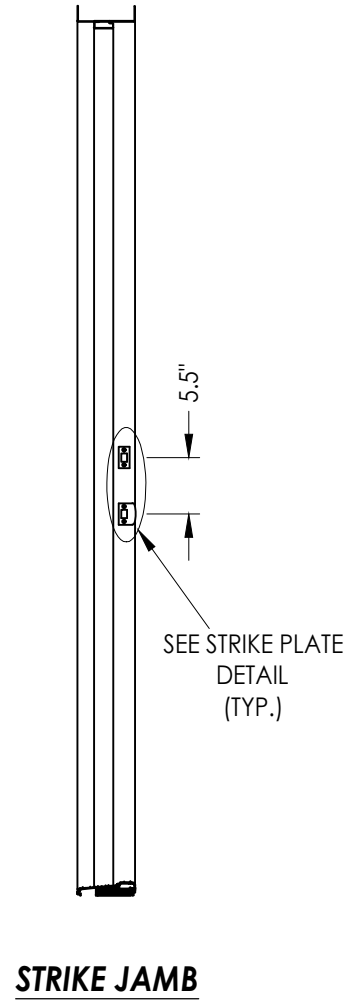
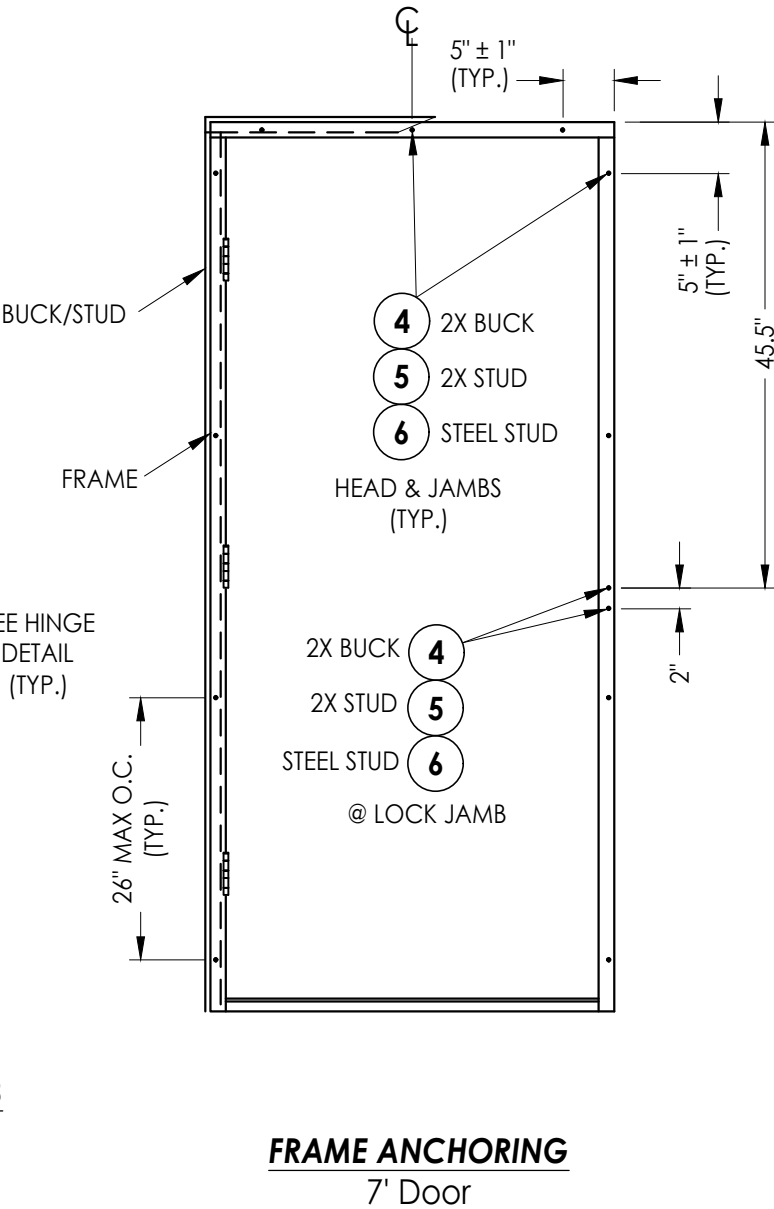
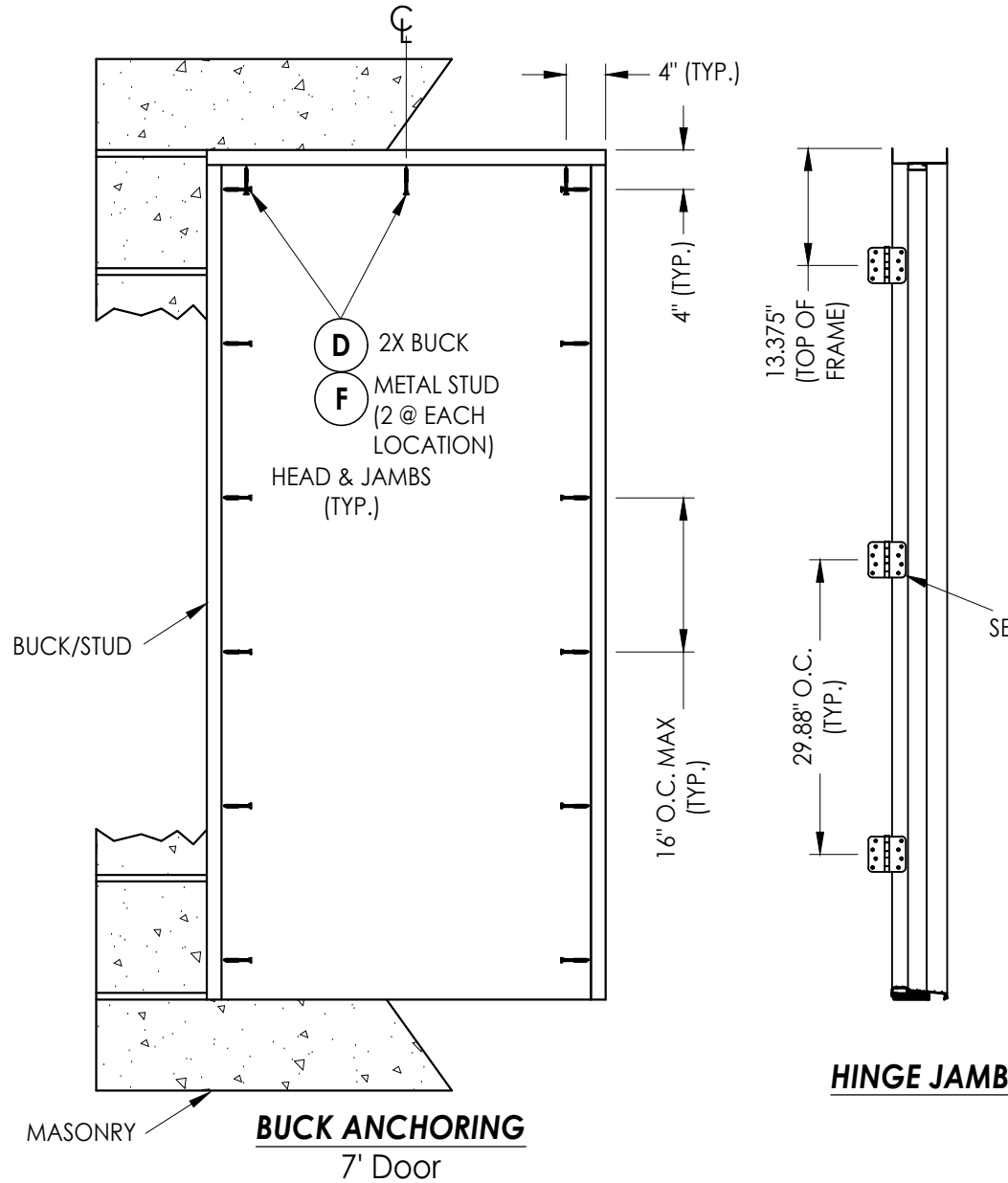
FL-31317.5

SHEET 4 OF 7

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

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

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IN LIEU OF FRAME CORNER CONNECTIONS
(SEE CORNER DETAIL - SHEET 3)

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"	2-1/2"	4"
ITW TAPCON®	3/16"	1-1/4"	3"	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.

Documents Prepared By:
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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:
IDP
STEEL FRAME (K2A-SERIES)

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING
(7'-0" DOOR)

NO.	DATE	REVISIONS
2	7/19/23	UPDATE TO 8TH ED. (2023) FBC
1	8/31/20	UPDATE TO 7TH ED. (2020) FBC

DATE: 1/22/20

SCALE: N.T.S.

DWG. BY: RW

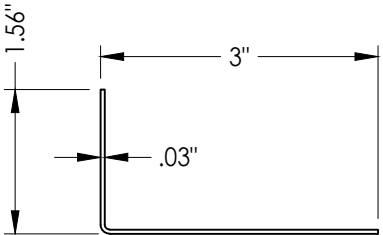
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DRAWING NO.: FL-31317.5

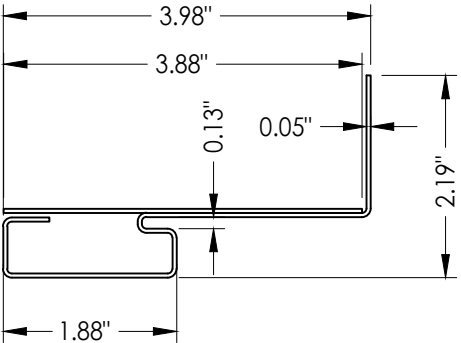
SHEET 6 OF 7

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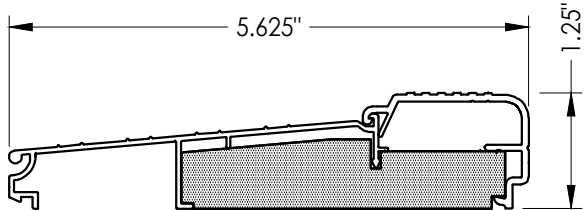
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X STUD FRAMING (SG>= 0.42)	WOOD
B	2X BUCK (SG >= 0.42)	WOOD
C	METAL STUD (SSMA STUD 550S162-54, Fy = 33 ksi, Fu = 45 ksi)	STEEL
D	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
F	3/16" X 1-3/4" HWH ITW CONCRETE SCREW	STEEL
G	3/16" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
H	1/4" X 2-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	1/4" X 1-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
4	#10 X 1-1/2" PPH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
5	#10 X 2" PPH SMS (1-1/4" MIN. EMBEDMENT)	STEEL
6	#10 X 3/4" HWH SELF-DRILLING TEK SCREW (3 THREADS MUST PROTRUDE THRU STEEL)	STEEL
7	WEATHERSTRIP	-
8	DOOR SWEEP	PVC
15	10-24 X 5/8" PFH MS	STEEL
16	#8 X 2-1/2" PFH WOOD SCREW	STEEL
17	#10 X 2-1/2" PFH WOOD SCREW	STEEL
18	4" X 4" HINGE	STEEL
20	10-24 X 1/2" PFH MS	STEEL
22	IDP (K2A-SERIES) EXTERIOR FRAME (18 GA. - A60 GALVANNEALED STEEL)	STEEL
23	IDP (K2A-SERIES) INTERIOR FRAME (22 GA. - A60 GALVANNEALED STEEL)	STEEL
28	LATCH & DEADBOLT REINFORCEMENT	STEEL
29	HINGE REINFORCEMENT	STEEL
30	INSWING THRESHOLD	ALUM/COMP
31	ADA THRESHOLD	ALUM
32	OUTSWING THRESHOLD	ALUM/COMP
40	7' DOOR - SEE DOOR PANEL DETAILS	-
58	DEADBOLT STRIKE	STEEL
59	LATCH STRIKE	STEEL



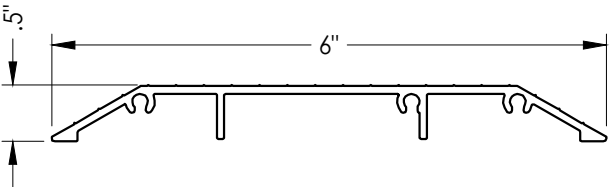
23 INTERIOR FRAME
K2A -SERIES



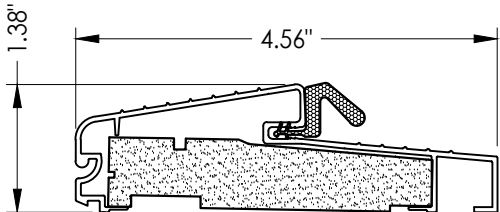
22 EXTERIOR FRAME
K2A -SERIES



30 INSWING THRESHOLD
AFCO A-280



31 ADA THRESHOLD
AFCO A-202



32 OUTSWING THRESHOLD
AFCO A-496

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:	IDP STEEL FRAME (K2A-SERIES)	BILL OF MATERIALS & COMPONENTS	
	PART OR ASSEMBLY:		
		LFS	LFS
		BY	
		REVISIONS	
		NO.	DATE
		2	7/19/23
		1	8/31/20
			UPDATE TO 8TH ED. (2023) FBC
			UPDATE TO 7TH ED. (2020) FBC
DATE: 1/22/20			
SCALE: N.T.S.			
DWG. BY: RW			
CHK. BY: LFS			
DRAWING NO.: FL-31317.5			
SHEET 7 OF 7			