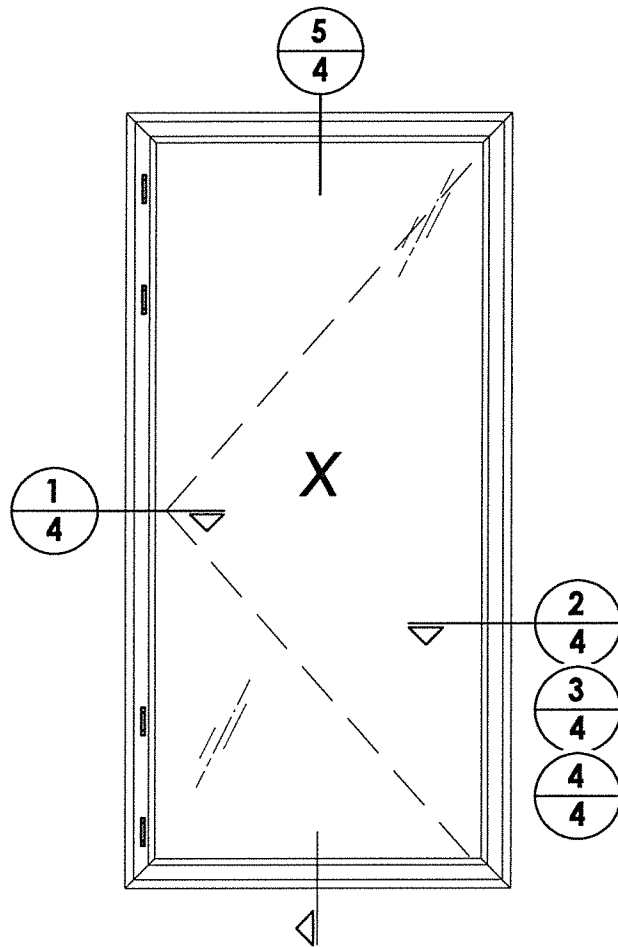
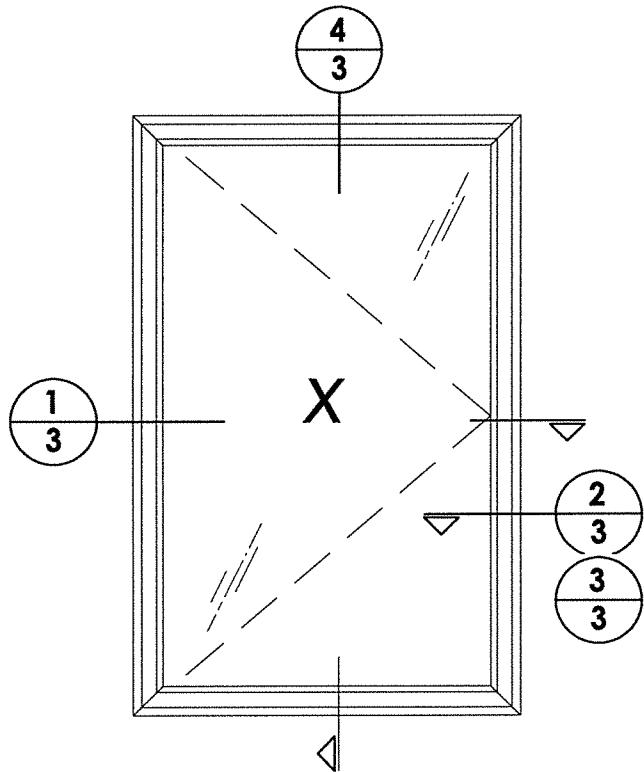




HARDWARE TABLE			
HINGE			
Qty.	Description	Height	Snubbers
4	Butt hinge	≤ 81.75"	Yes (2)
2	Butt hinge	≤ 50"	Yes (2)
2	4 Bar hinge	≤ 65"	Yes (3)
HANDLES			
Points	Description	Height	*Cam locks can be used in conjunction with multipoint lock or in lieu of multipoint locks
4	Multipoint	> 72"	
3	Multipoint	≤ 72"	
Qty.			
3	Cam*	≤ 65"	
1	Cam*	≤ 50"	

A circular professional engineer seal for L. F. Schmidt. The outer ring contains the text "L. F. SCHMIDT" on the left and "PROFESSIONAL ENGINEER" on the right, separated by two stars at the top and bottom. The inner circle contains the text "LICENSE" on the left and "STATE OF FLORIDA" on the right, separated by two stars at the top and bottom. In the center of the seal is the license number "No. 43409" with a single star above it. The seal is stamped over a document with horizontal lines.

December 7, 2021
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:
FLEETWOOD WINDOWS AND DOORS

PART OR ASSEMBLY:

5	12/7/21	SERIES NAME CHANGE		
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	LFS
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	DAC
2	8/22/16	RENUMBER DRAWINGS		LFS
1	8/06/17	UPDATE TO 5TH ED. (2014)	FBC	LFS
NO.	DATE			BY
REVISIONS				

DATE: 10/23/13

SCALE: N.T.S.

DWG. BY: JK

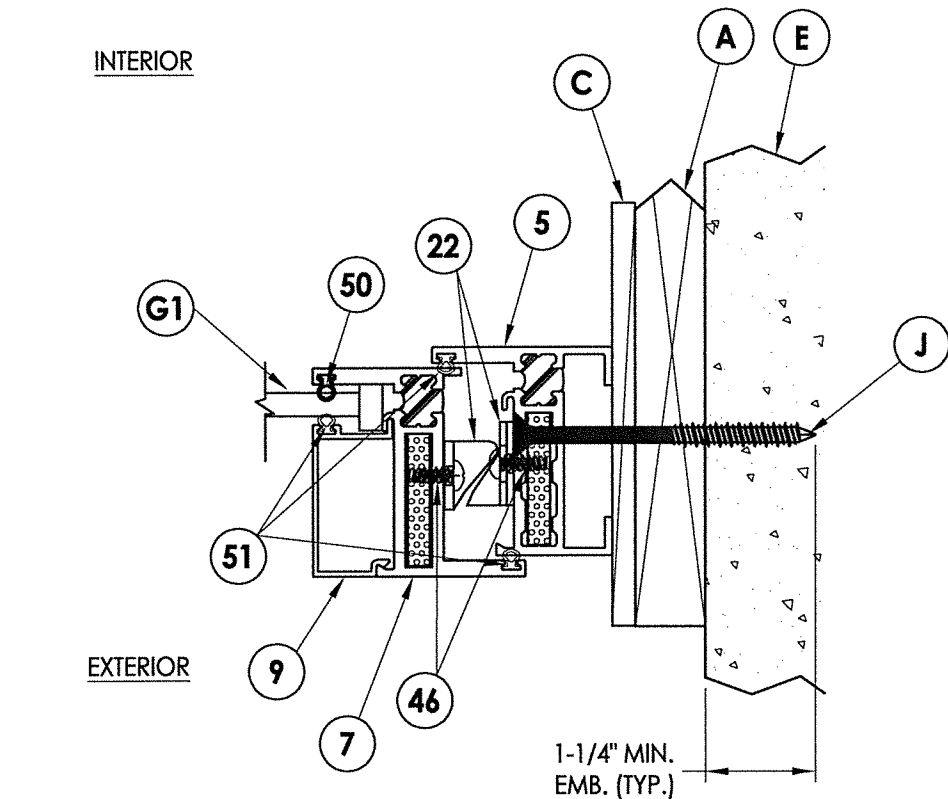
CHK. BY: LFS

DRAWING NO.:

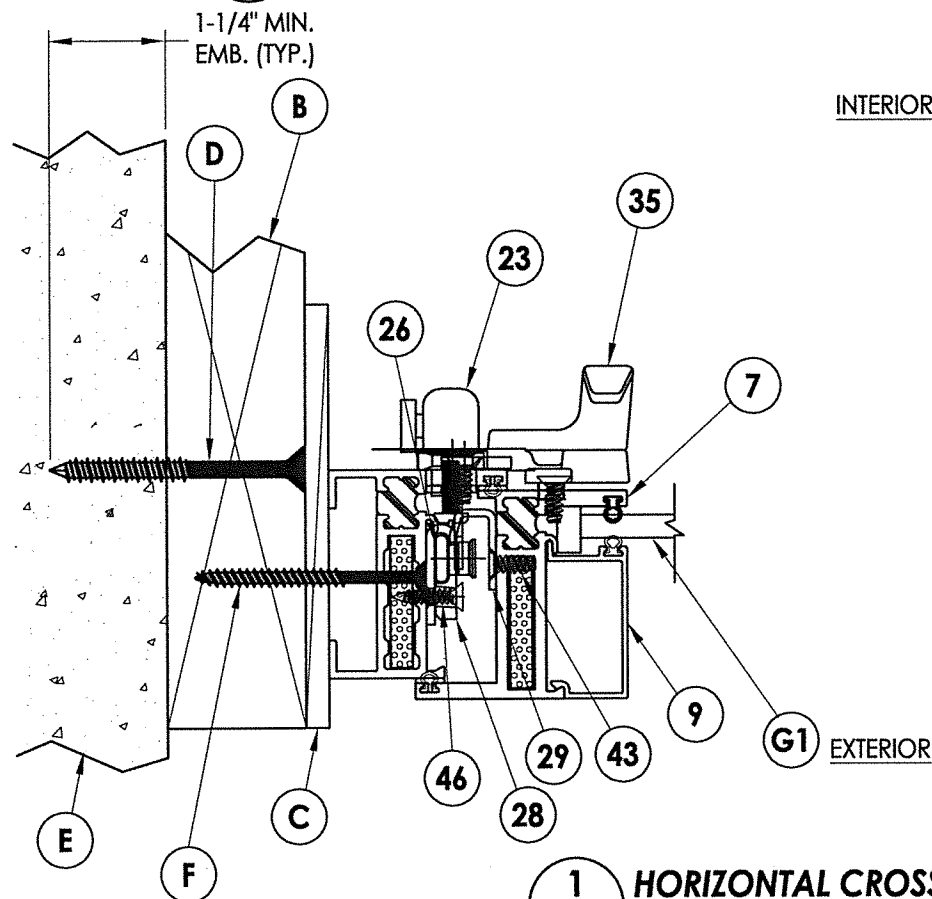
FL-14904.8

SHEET 2 OF 7

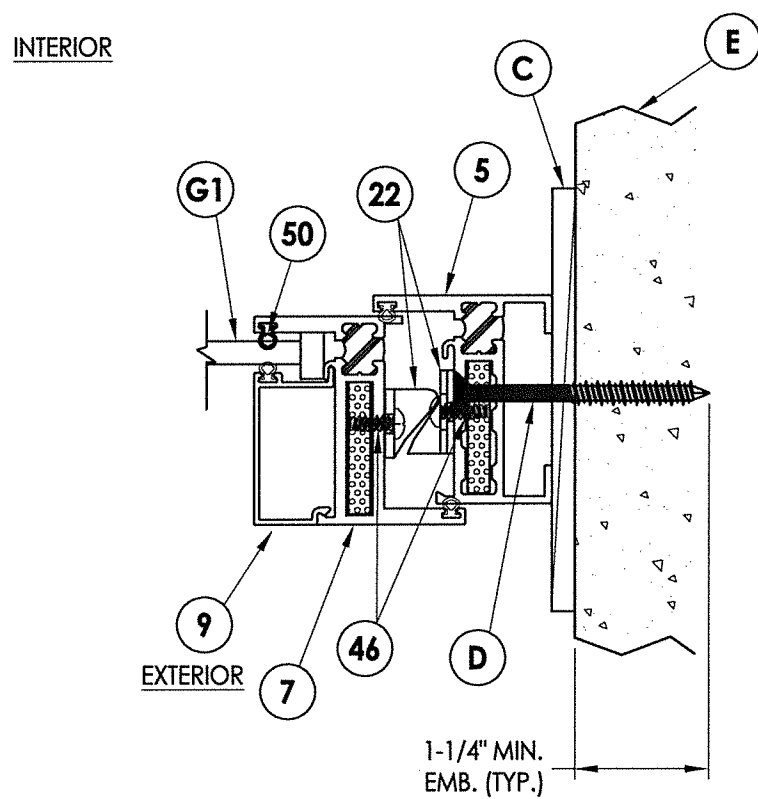
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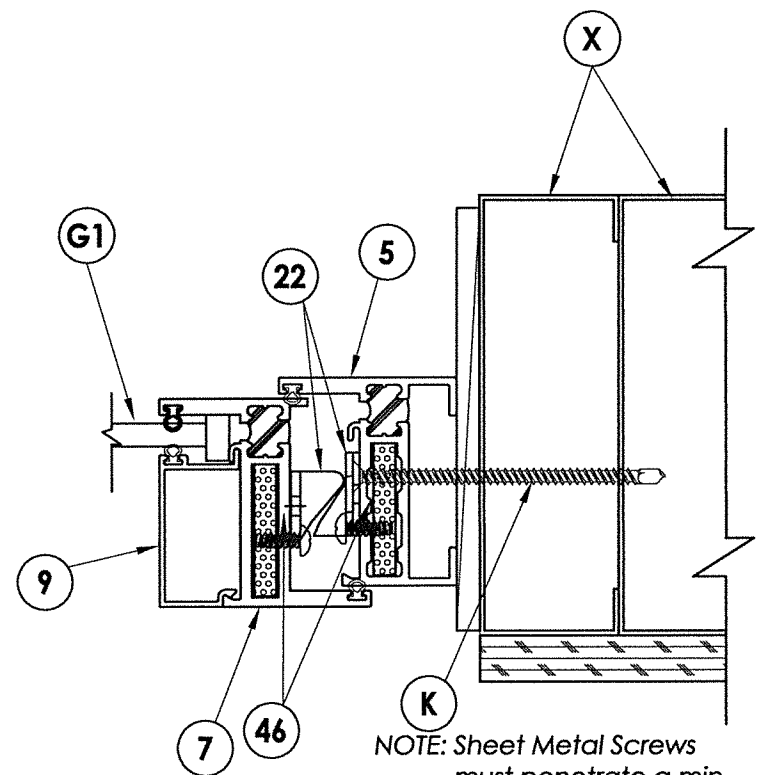
2 **HORIZONTAL CROSS SECTION**
3 Shown w/ 1X Sub buck option



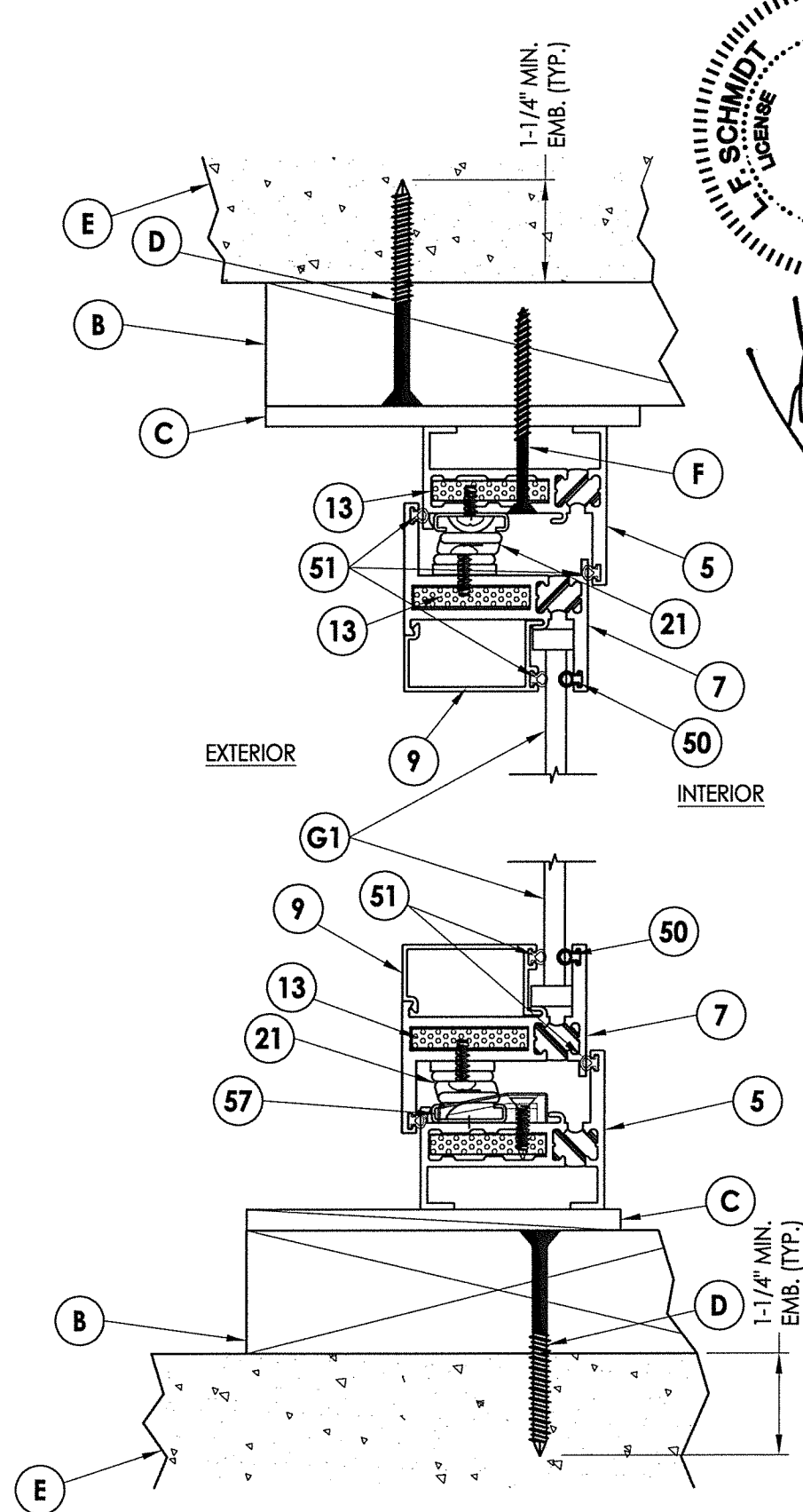
1 **HORIZONTAL CROSS SECTION**
3 Show w/ 2X Buck and Steel Stud options



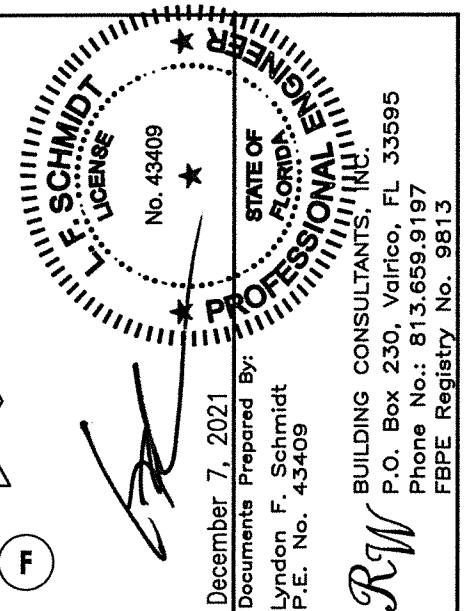
3 **HORIZONTAL CROSS SECTION**
3 Shown w/ Direct to Masonry option



NOTE: Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.

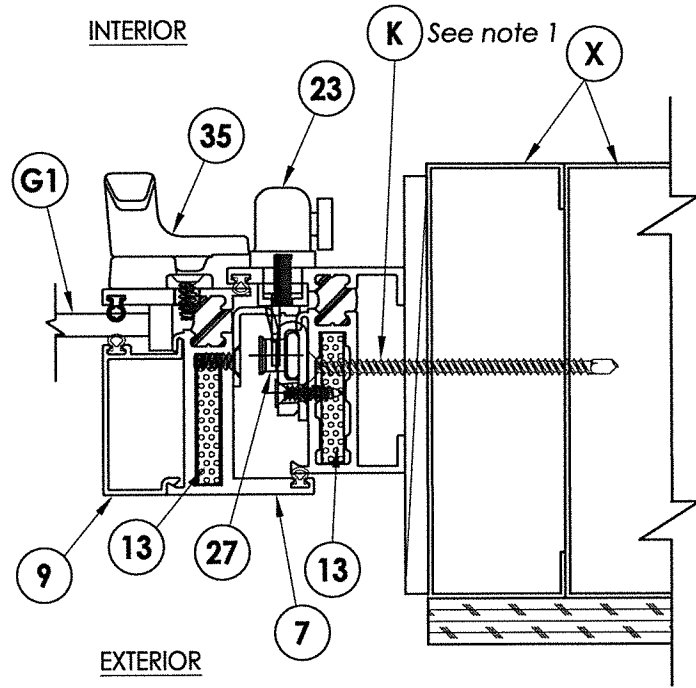


4 **VERTICAL CROSS SECTION**
3 Shown w/ 2X Buck Construction

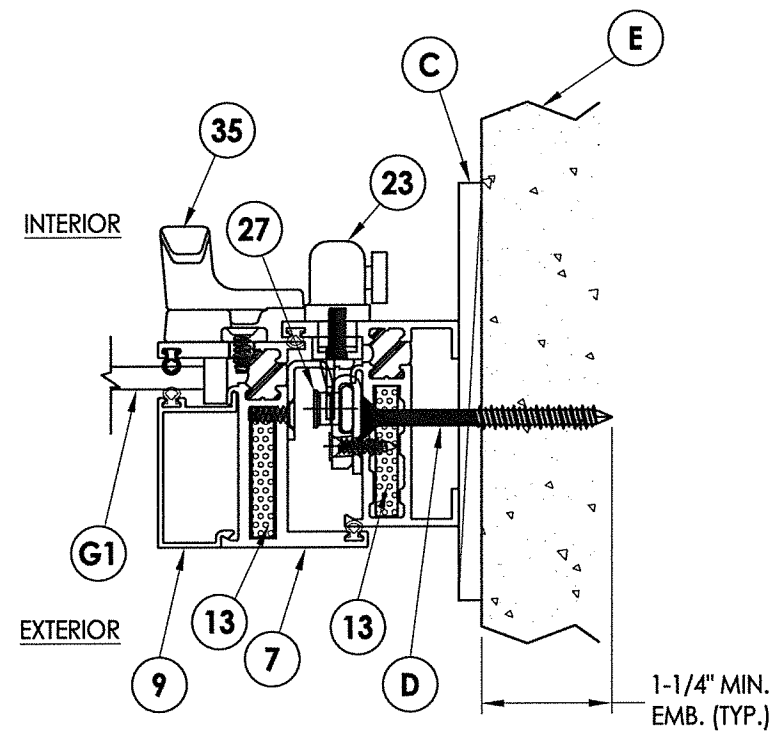


December 7, 2021		Documents Prepared By:		Lyndon F. Schmidt		P.E. No. 43409	
No. 43409		STATE OF FLORIDA		PROFESSIONAL ENGINEER		BUILDING CONSULTANTS, INC.	
P.O. Box 230, Valrico, FL 33595		Phone No.: 813.659.9197		FBPE Registry No. 9813		R.W.	
PRODUCT:		FLEETWOOD WINDOWS AND DOORS		PART OR ASSEMBLY:		HORIZONTAL AND VERTICAL CROSS SECTIONS	
5	12/7/21	SERIES NAME CHANGE	LFS	1	8/06/17	UPDATE TO 5TH ED. (2014) FBC	BY
4	8/06/20	UPDATE TO 7th ED. (2020) FBC	DAC	2	8/22/16	RENUMBER DRAWINGS	DATE
3	8/07/17	UPDATE TO 6TH ED. (2017) FBC	LFS	3	8/07/17	UPDATE TO 6TH ED. (2017) FBC	DATE
2	8/22/16	RENUMBER DRAWINGS	LFS	4	8/06/20	UPDATE TO 7th ED. (2020) FBC	DATE
1	8/06/17	UPDATE TO 5TH ED. (2014) FBC	LFS	5	12/7/21	SERIES NAME CHANGE	DATE
NO.		DATE		REVISIONS			
DATE: 10/23/13		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS	
DRAWING NO.: FL-14904.8		SHEET 3 OF 7					

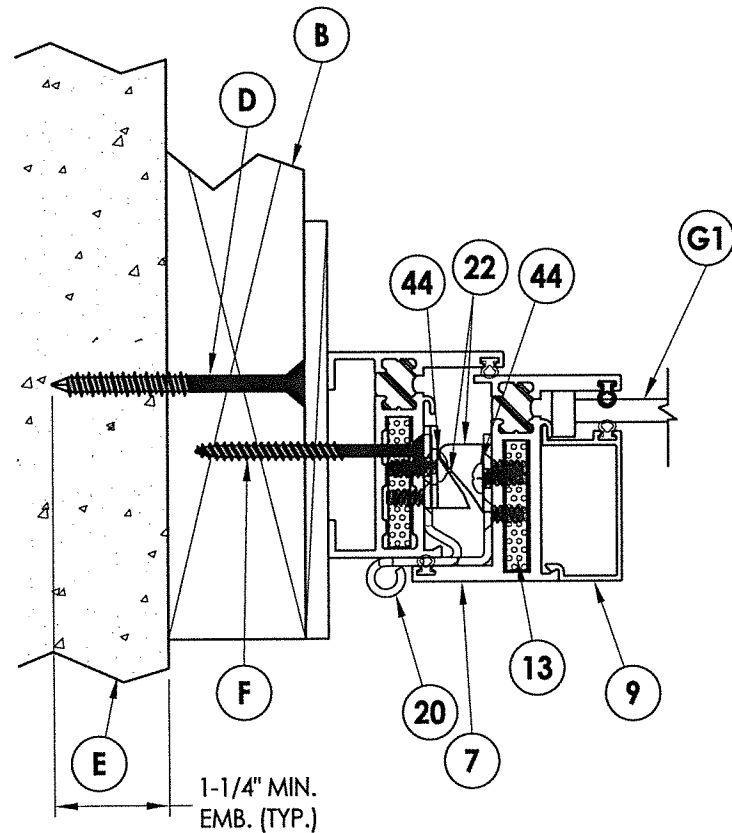
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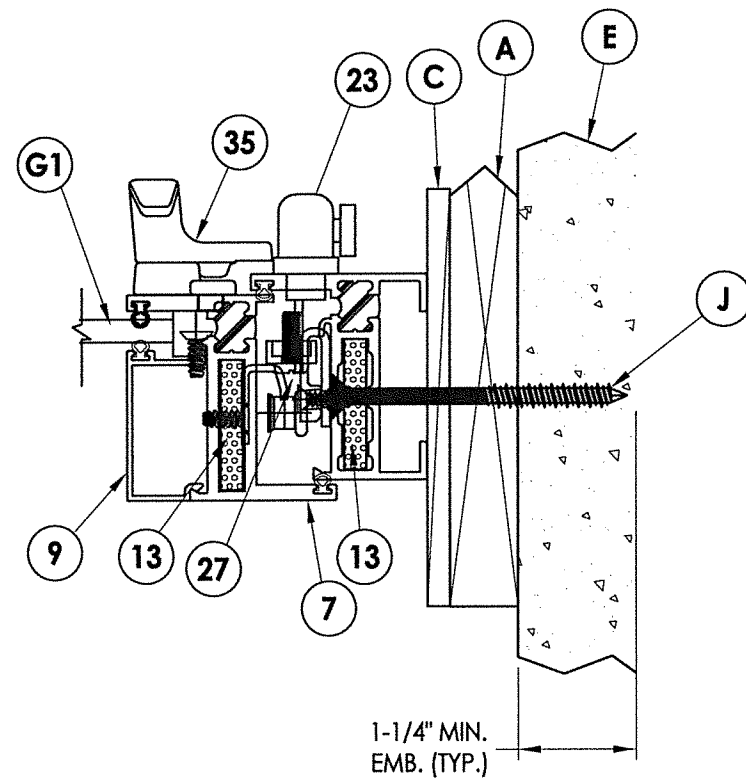
3 **HORIZONTAL CROSS SECTION**
4 Shown w/ Steel Stud option



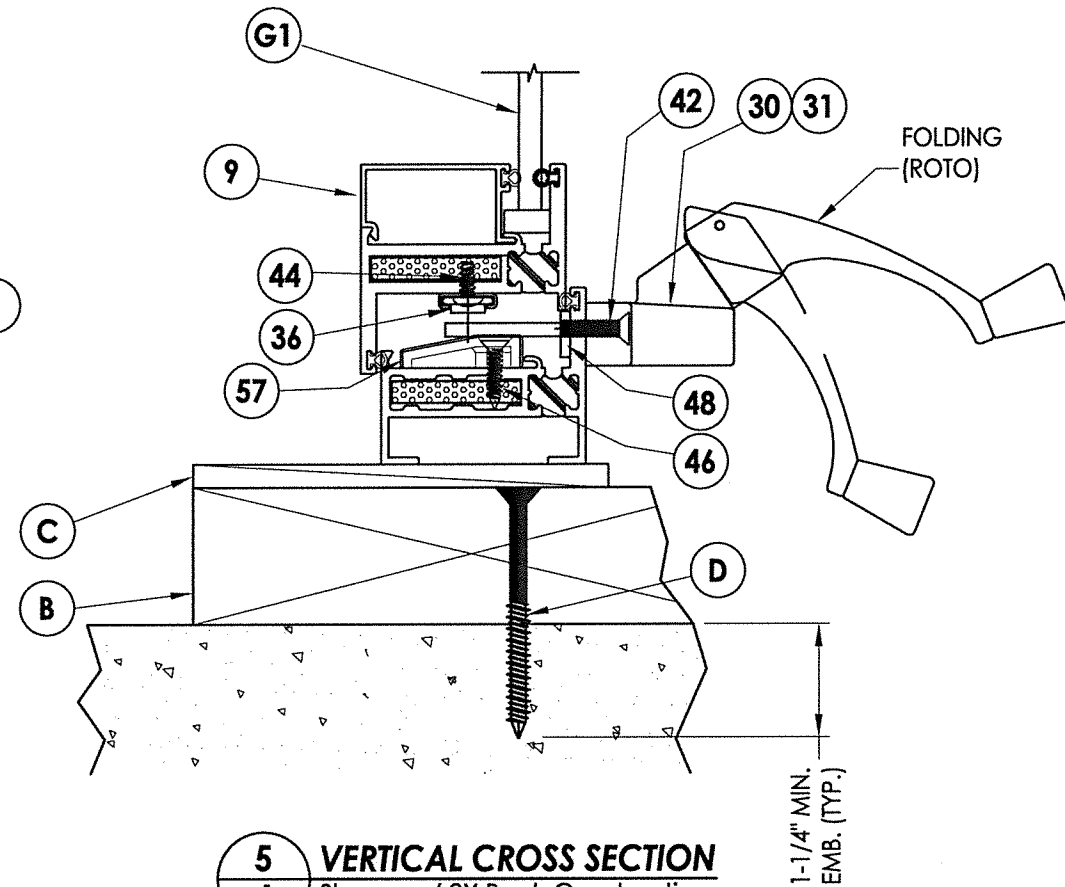
4 **HORIZONTAL CROSS SECTION**
4 Shown w/ Direct to Masonry option



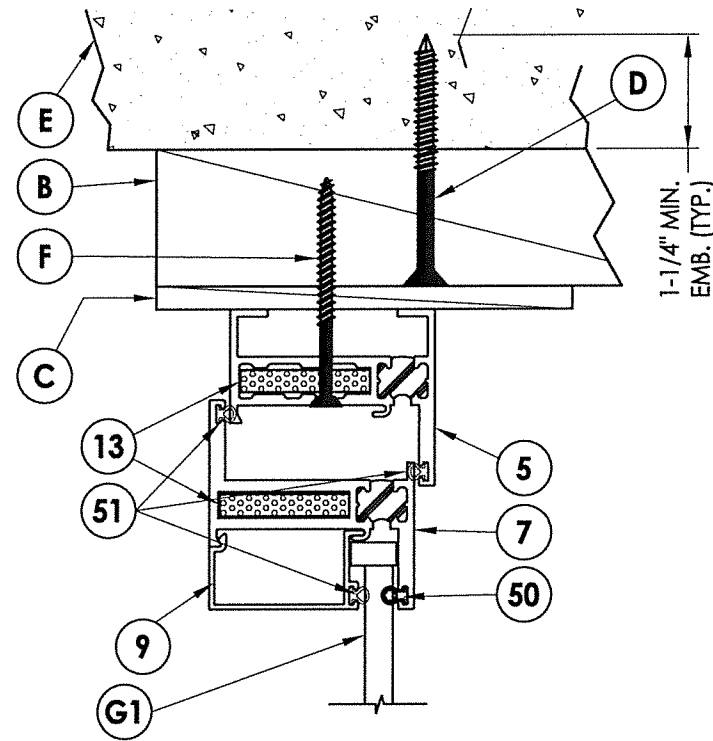
1 **HORIZONTAL CROSS SECTION**
4 Shown w/ 2X Buck Construction



2 **HORIZONTAL CROSS SECTION**
4 Shown w/ 1X Sub buck option

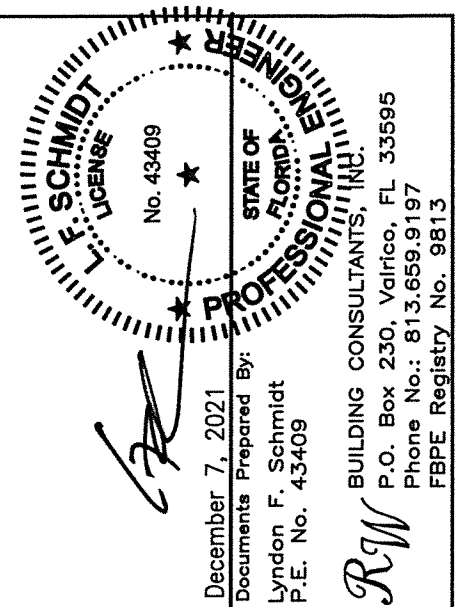


5 **VERTICAL CROSS SECTION**
4 Shown w/ 2X Buck Construction



EXTERIOR

INTERIOR



PRODUCT:		FLEETWOOD WINDOWS AND DOORS	
PART OR ASSEMBLY:		HORIZONTAL AND VERTICAL CROSS SECTIONS	
NO.	DATE	BY	
5	12/7/21	LFS	
4	8/06/20	DAC	
3	8/07/17	FBC	
2	8/22/16	FBC	
1	8/06/17	FBC	
DATE: 10/23/13			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-14904.8			
SHEET 4 OF 7			

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NOTE:
1. Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.

See Detail 1

28

46

7.5"

15.5"

6"

14.25"

10"

5.5"

26

24.5"

3.75"

25.75"

FRA

2X

BU

Technical drawing of a window frame assembly showing a cross-section. The drawing includes labels for "MASONRY OPENING", "FRAME", "2X SUB BUCK", and "2X BUCK TYP.". Dimensions are indicated: "6" (TYP.)" for the top and side gaps, and "16" MAX. O.C. (TYP.)" for the vertical spacing of the frame members. A circular detail "F" is shown within the frame.

MASONRY OPENING

6" (TYP.)

6" (TYP.)

FRAME

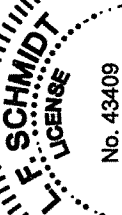
J 1X BUCK

D DIRECT TO MASONRY

K STEEL STUD TYP.

8" MAX. O.C. (TYP.)

Technical drawing of a cable assembly. The drawing shows a vertical cable with three parallel conductors. Dimensions are indicated by arrows: 18.75" from the bottom to the first snubber, 18.75" between the first and second snubbers, and 13.5" from the second snubber to the top. Callout 22 points to the top of the cable, and callout 44 points to the second snubber. A circular detail view of a snubber is shown at the bottom, with a line pointing to it from the text "See Snubber Detail". A star symbol is in the top right corner.



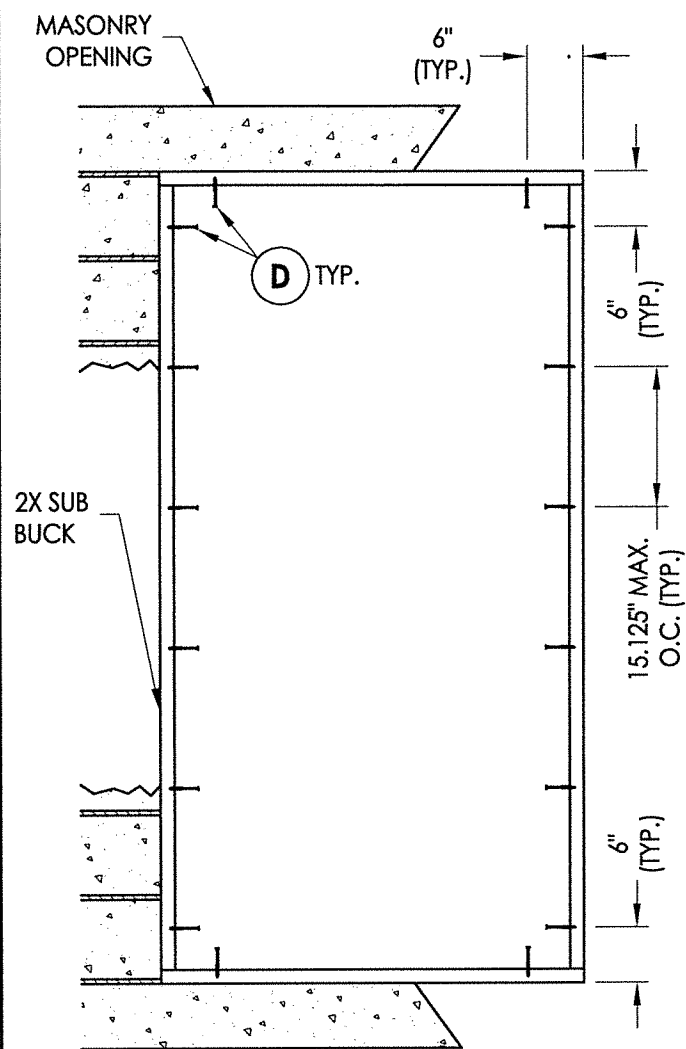
December 7, 2021
 Documents Prepared By:
 Lyndon F. Schmidt
 P.E. No. 43409

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

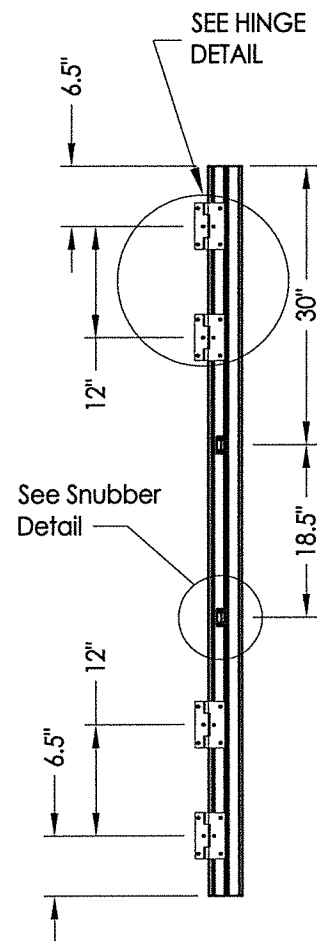
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRA-CON®	1/4"	1-1/4"	1"	4"

The technical drawings show two views of a mechanical component. The left drawing, labeled "SNUBBER DETAIL", shows a circular cross-section with a central vertical slot. A small rectangular feature is located in the center of the slot. Callout 44 points to the left side of this feature, and callout 22 points to the right side. The right drawing, labeled "DETAIL 1", shows a circular cross-section with a central vertical slot. Two rectangular features are located in the slot, one above and one below the center. Callout 26 points to the center of the slot. Callout 46 points to the top and bottom rectangular features. Callout 28 points to the right side of the top rectangular feature.

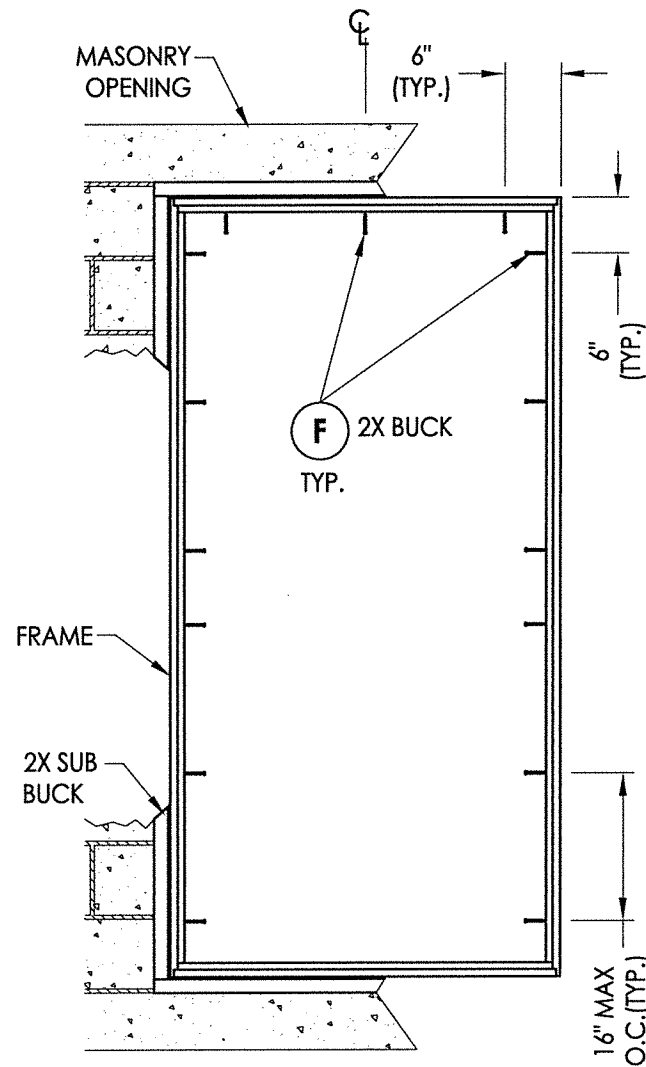
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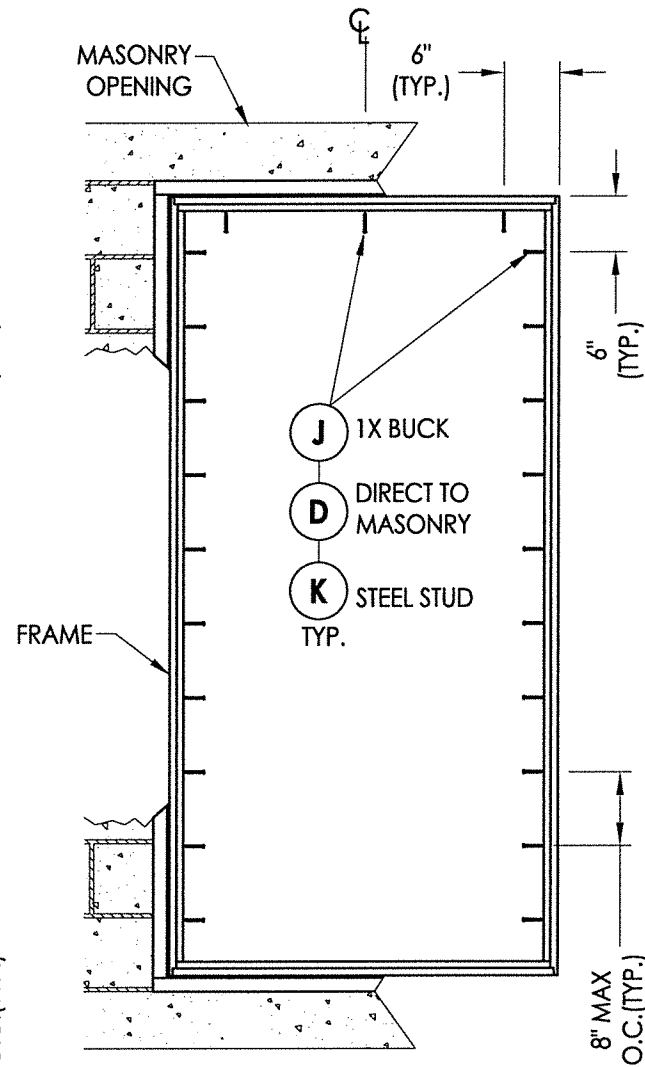
2X BUCK ANCHORING
39.75" X 81.75" Max Size



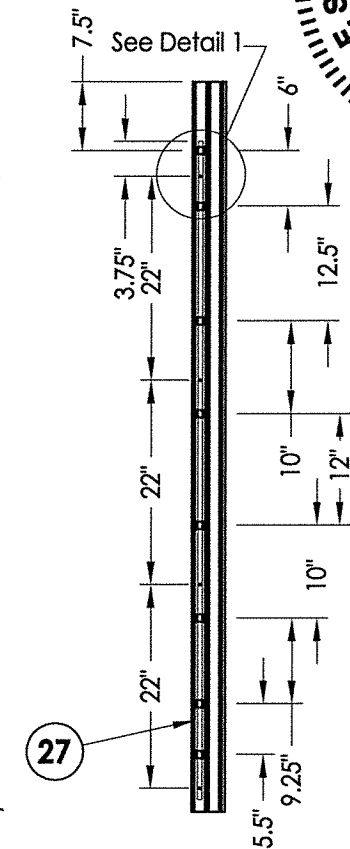
HINGE JAMB



FRAME MOUNT ANCHORING
39.75" X 81.75" Max Size
(2X BUCK)



FRAME MOUNT ANCHORING
39.75" X 81.75" Max Size
(1X BUCK, DIR. TO MASONRY, STEEL STUD)



LOCK JAMB
Locking Points (4)

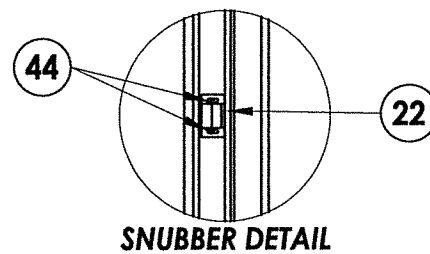
CONCRETE ANCHOR NOTES:

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:

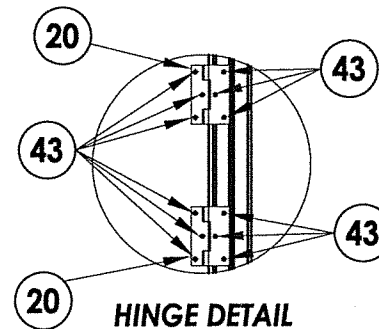
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

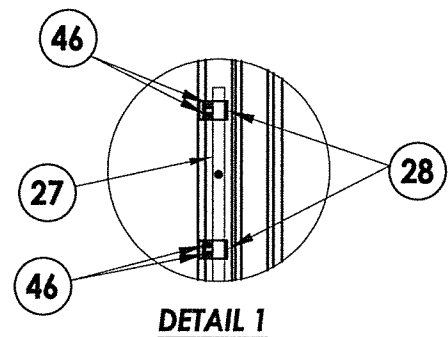
1. Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



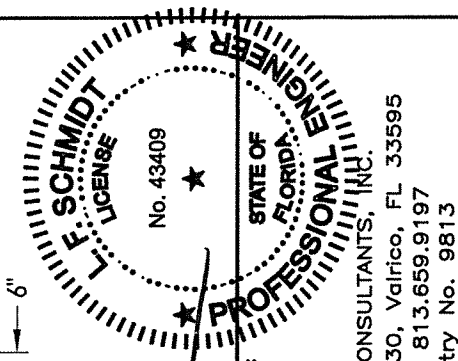
SNUBBER DETAIL



HINGE DETAIL



DETAIL 1



December 7, 2021
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

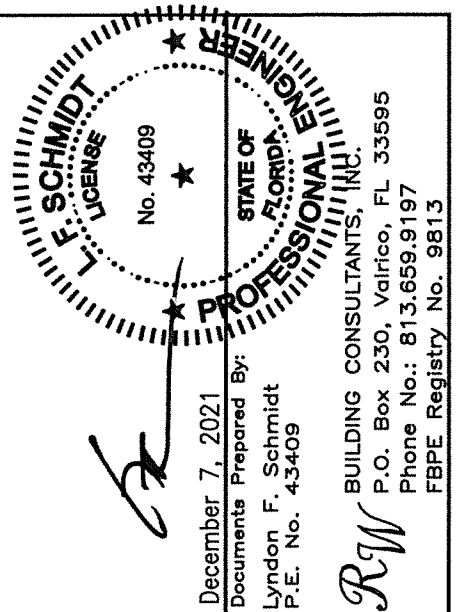
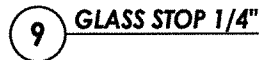
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
FLEETWOOD WINDOWS AND DOORS

ASSEMBLY:
BUCK & FRAME
ANCHORING

DATE:	10/23/13		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-14904.8		
SHEET	6	OF	7

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	1/4" MAX. SHIM SPACE	-
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	CONCRETE
F	#10 X 2-1/2" PPH WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
J	1/4" X 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
K	#10 PPH SELF-DRILLING SMS	STEEL
X	STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)	STEEL
3	THERMAL BREAK ("LIQUID POLYURETHANE" by Azon USA, Inc.)	-
5	BLOCK FRAME (350-T)	6063-T6 ALUM
7	ZEE BAR (PANEL)	6063-T6 ALUM
9	GLASS STOP (1/4")	6063-T6 ALUM
13	CORNER KEY	6063-T6 ALUM
20	SS. BUTT HINGE	SS
21	4 BAR HINGE	SS
22	SNUBBER-COMMERCIAL PULL-IN BLOCK	SS
23	MULTIPOINT LOCK HANDLE	SS
26	3 POINTS LOCKING BAR (TRUTH)	SS
27	4 POINTS LOCKING BAR (TRUTH)	SS
28	TIE BAR GUIDE (TRUTH)	-
29	KEEPER (TRUTH)	SS
30	CASEMENT ROTOR GEAR 13.5" (TRUTH)	SS
31	CASEMENT ROTOR GEAR 9.5" (TRUTH)	SS
35	CAM HANDLE / STRIKE PLATE	SS
36	CASEMENT SS. TRACK (TRUTH)	SS
42	MACHINE SCREW NO 10-32, FHP .75"	STEEL
43	SCREW NO 10 , UFHP .5"	STEEL
44	SCREW NO 8, PHP, .50"	STEEL
46	SCREW NO 8, FHP, .750"	STEEL
48	BACK UP NUTS	STEEL
50	BULB VINYL (EPDM 70 DUROMETER) - TREMCO	-
51	MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO	-
55	SETTING BLOCK	-
57	PIVOT SHIM	-



DATE: 10/23/13		SERIES NAME CHANGE		PRODUCT: FLEETWOOD WINDOWS AND DOORS	
5	12/7/21			LFS	PART OR ASSEMBLY: BILL OF MATERIALS, COMPONENTS AND GLAZING DETAIL
4	8/06/20	UPDATE TO 7th ED. (2020)	FBC	DAC	
3	8/07/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
2	8/22/16	RENUMBER DRAWINGS		LFS	
1	8/06/17	UPDATE TO 5TH ED. (2014)	FBC	LFS	
NO.	DATE			BY	
REVISIONS					
DWG. BY: JK		DRAWING NO.: FL-14904.8			
CHK. BY: LFS		SHEET 7 OF 7			
SCALE: N.T.S.					