



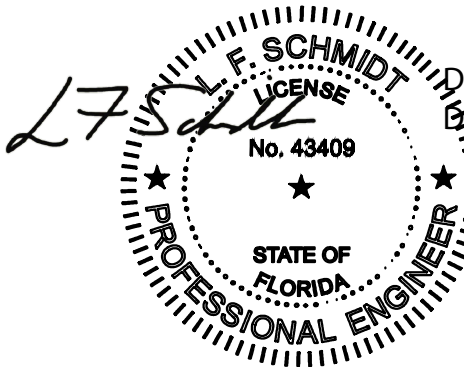
CLINE ALUMINUM DOORS, INC.
112 32nd AVENUE WEST, BRADENTON, FL 34205-8096
Telephone (800) 648-6736

**SERIES 100BE
ALUMINUM DOOR
OUTSWING
"IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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 Florida Building Code 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 E 1996.
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 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.
8. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.
9. Gaskets shall comply with FBC Section 2411.3.4.

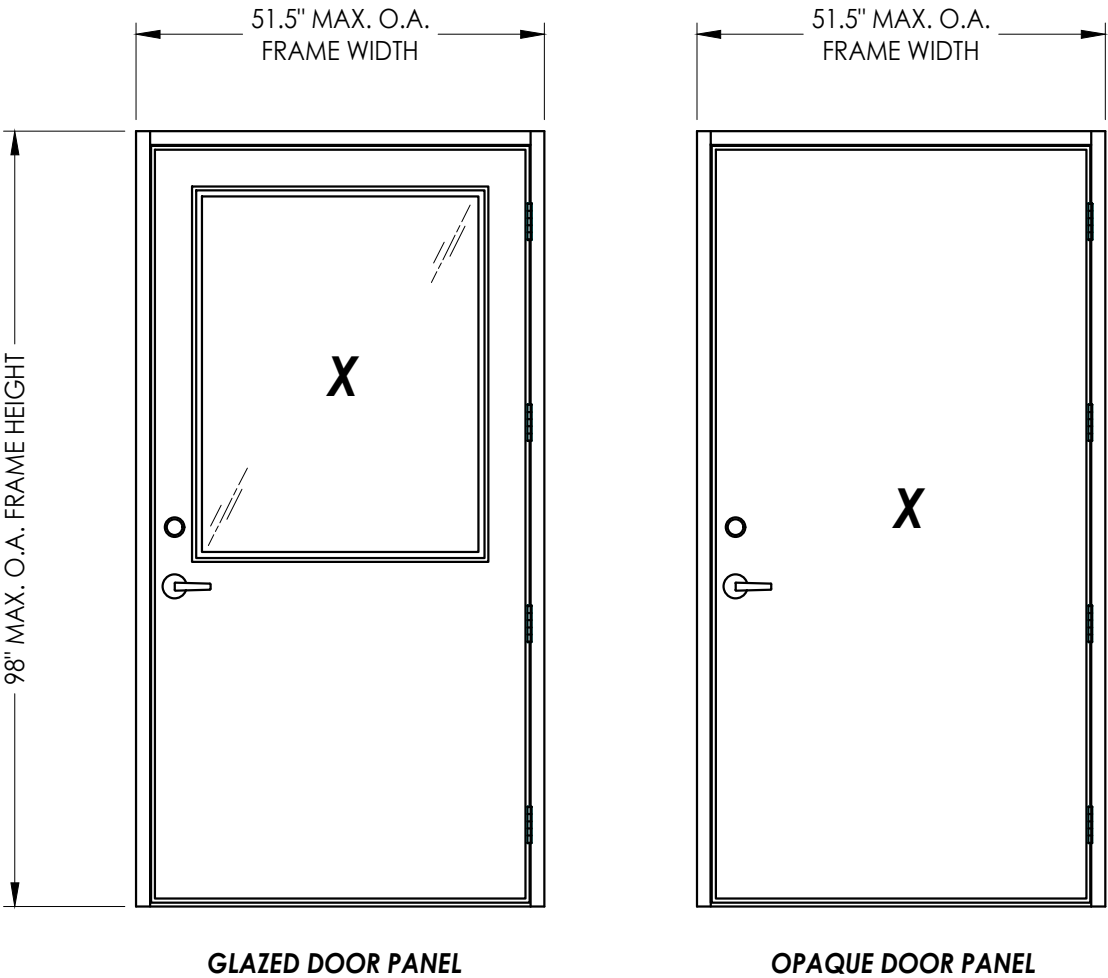
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SHEET#	DESCRIPTION
1	Typical elevations, design pressures & general notes
2	Door panel details and glazing detail
3	Horizontal cross sections
4	Vertical cross sections
5	Buck and frame anchoring (4' X 8')
6	Buck and frame anchoring (3' X 7')
7	Bill of materials and components



Digitally signed by Lyndon F Schmidt
Date: 2026.07.21 15:35:58 -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



LOCK HARDWARE	MAX. FRAME DIMENSION	MAX. DOOR D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
LATCH & DEADBOLT or MORTISE LOCK	51.5" x 98.0"	34.88" X 44.88"	+55.0	-55.0
	40.0" x 88.0"	22.75" X 32.75"	+90.0	-90.0

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P.E. No. 43409

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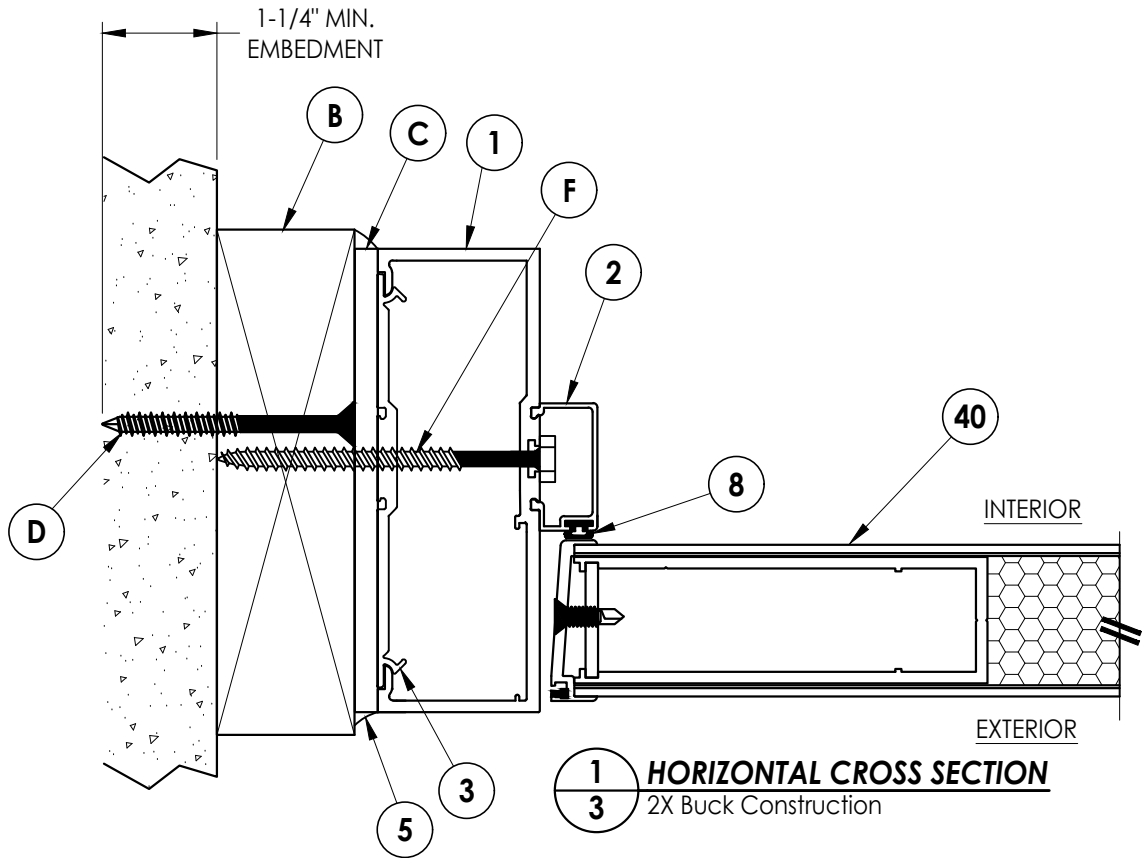
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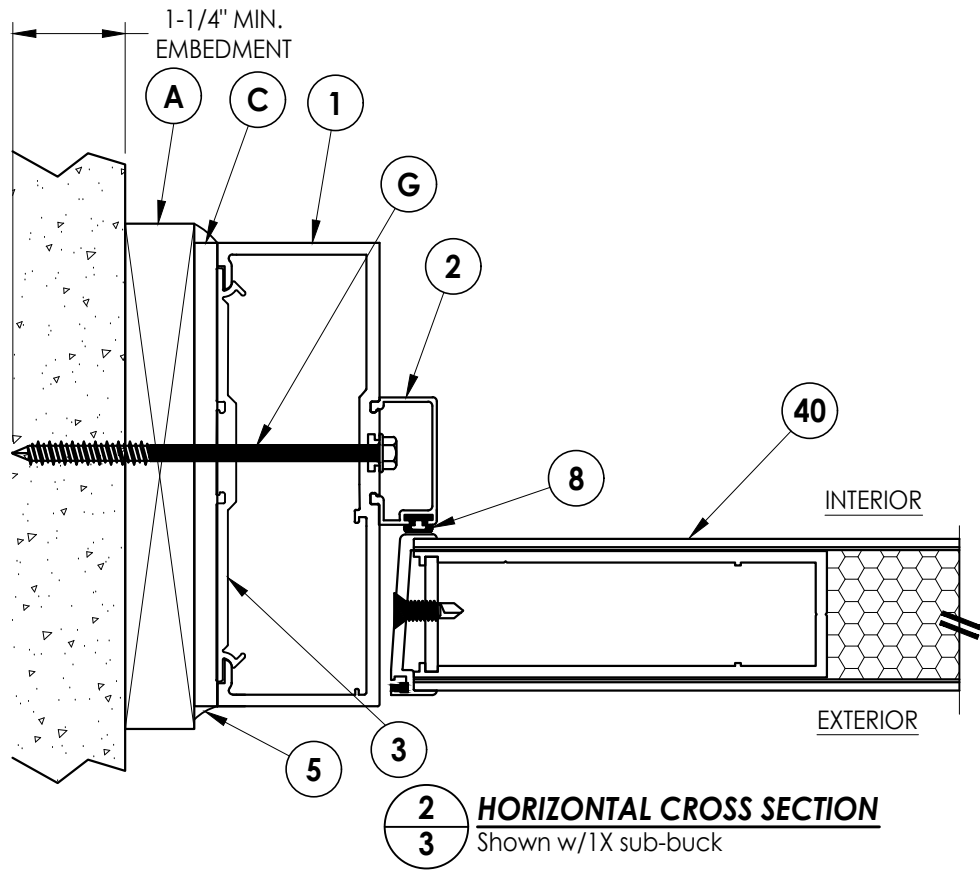
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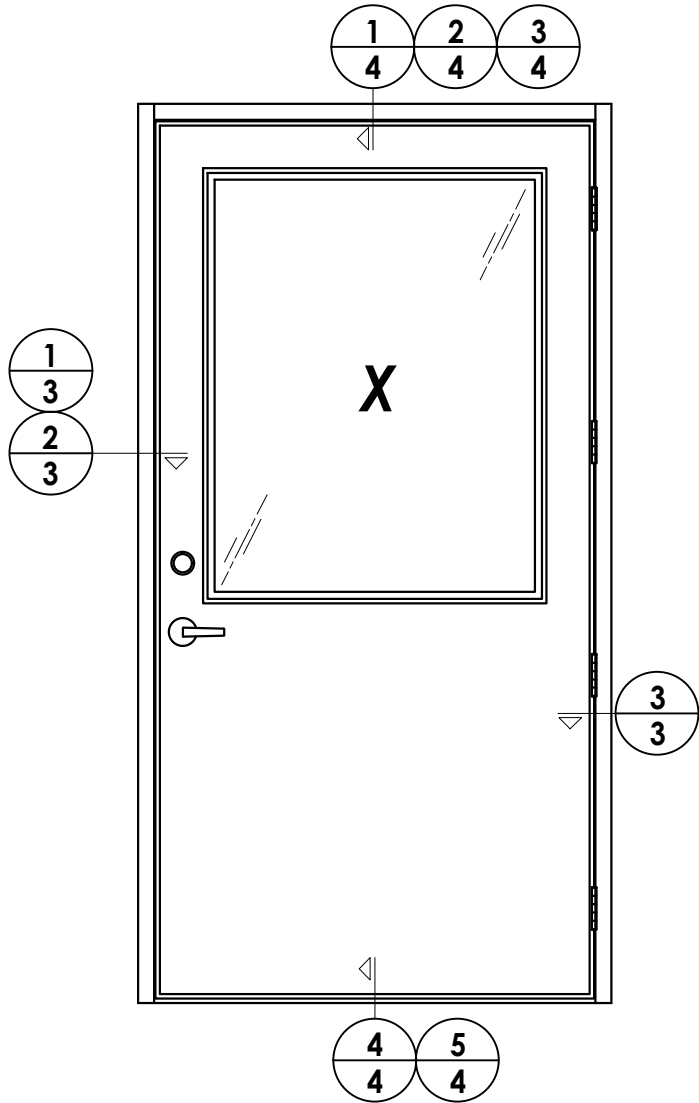
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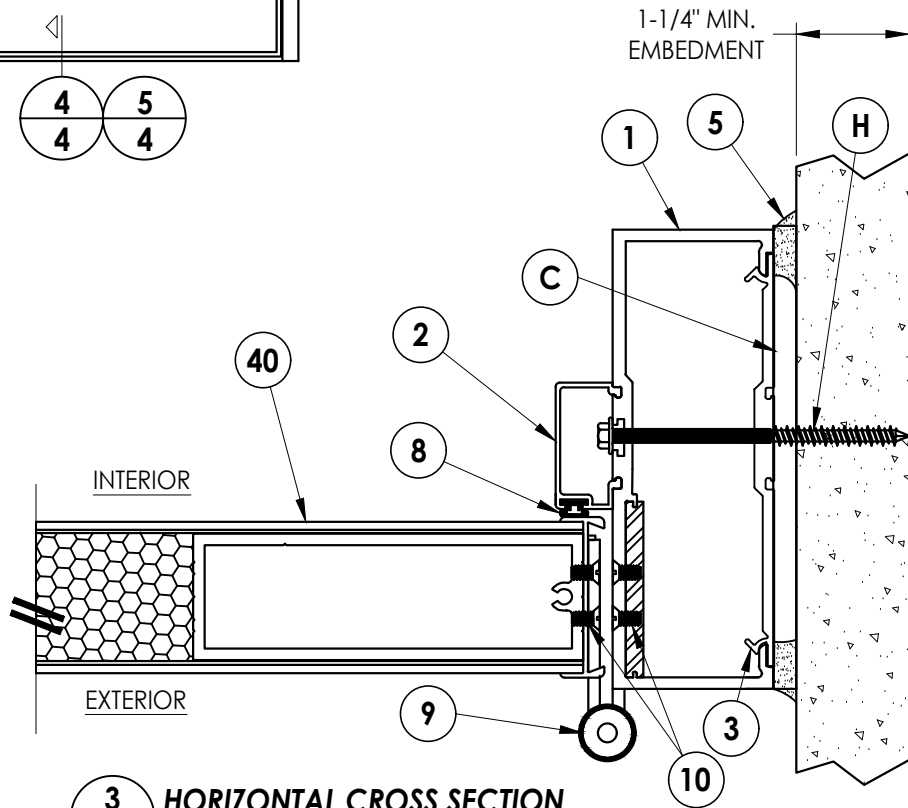
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3 **HORIZONTAL CROSS SECTION**
2X Buck Construction



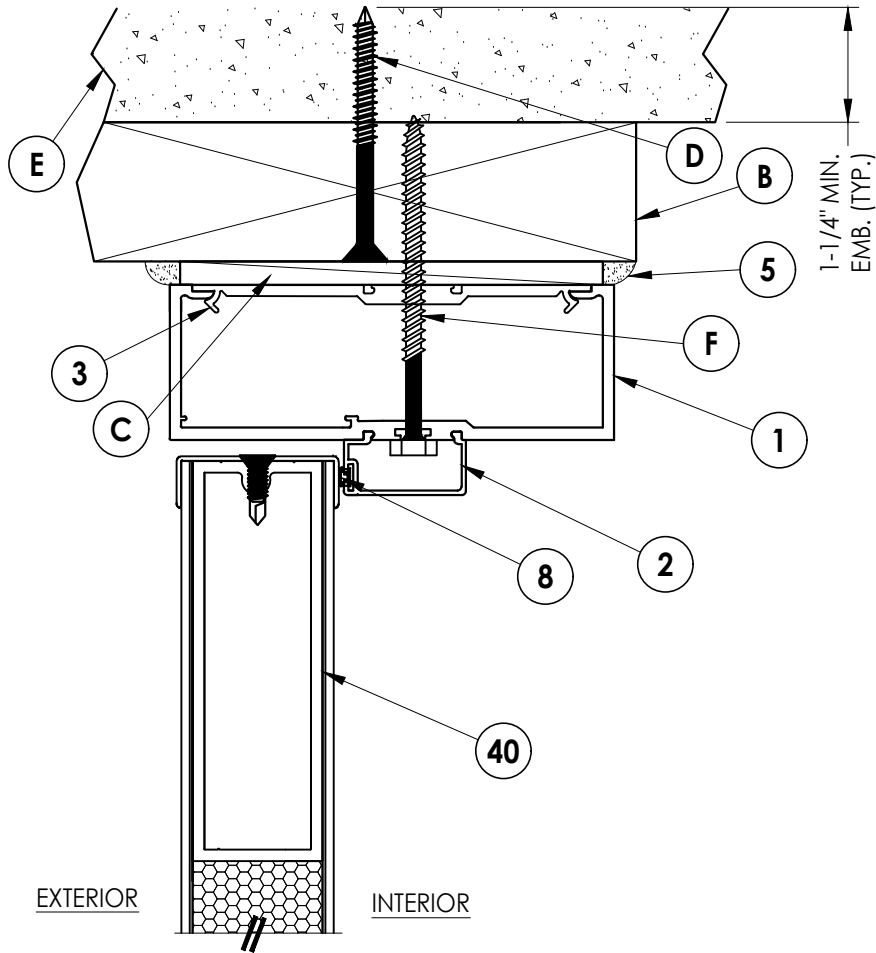
2
3 **HORIZONTAL CROSS SECTION**
Shown w/1X sub-buck



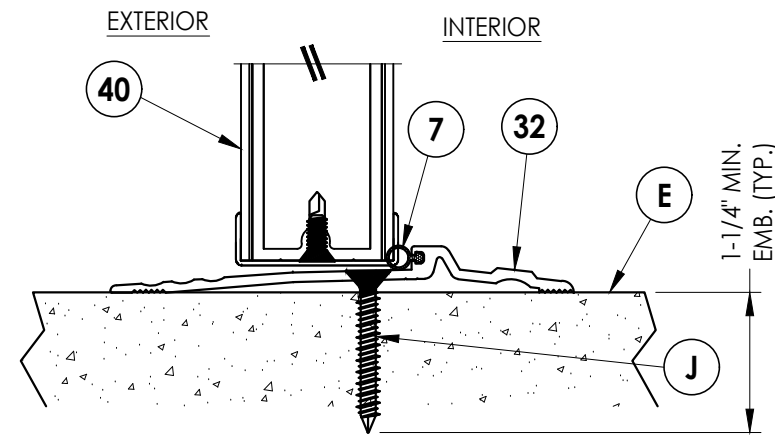
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3 **HORIZONTAL CROSS SECTION**
Direct to Masonry



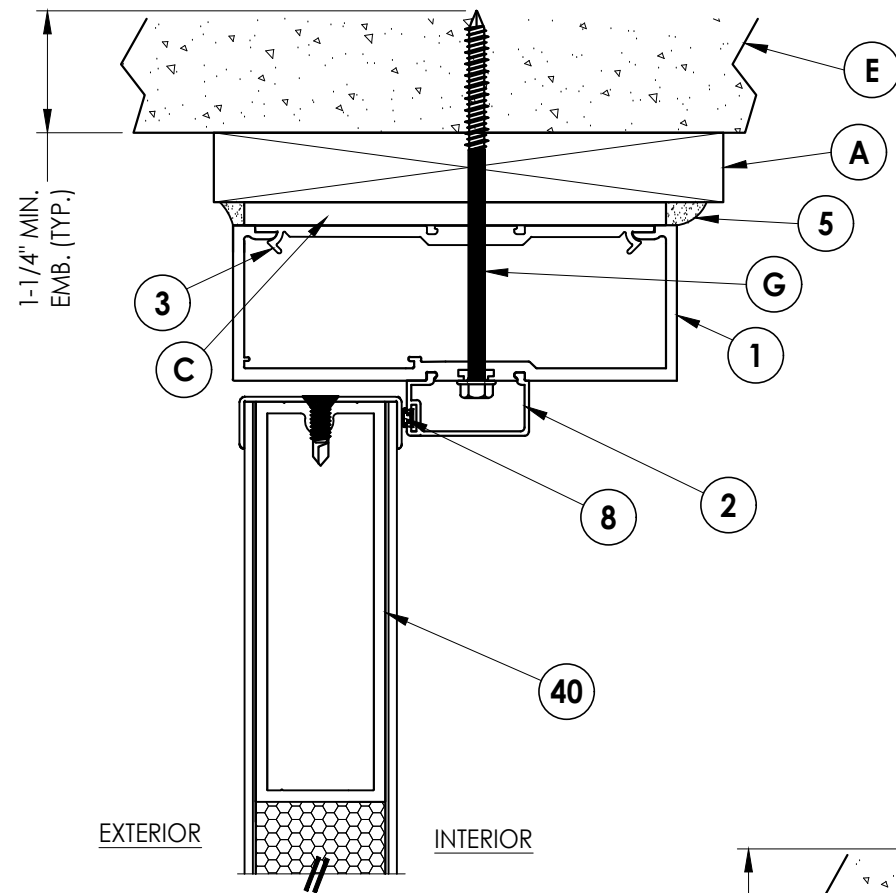
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
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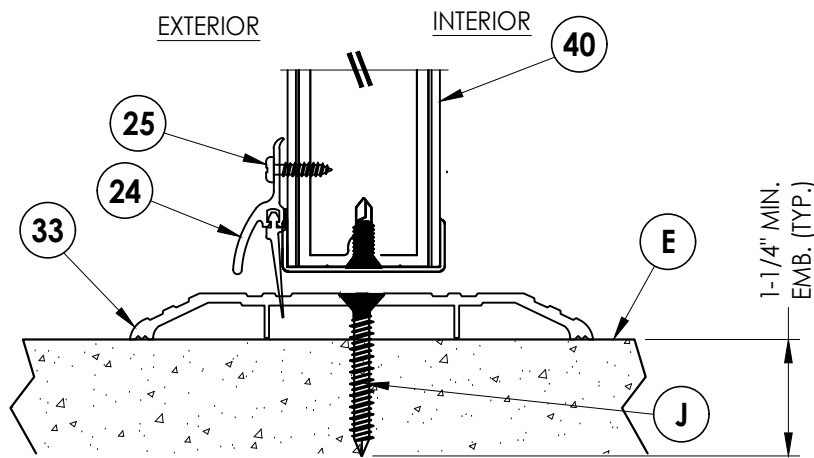
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4 **VERTICAL CROSS SECTION**
2X Buck Construction



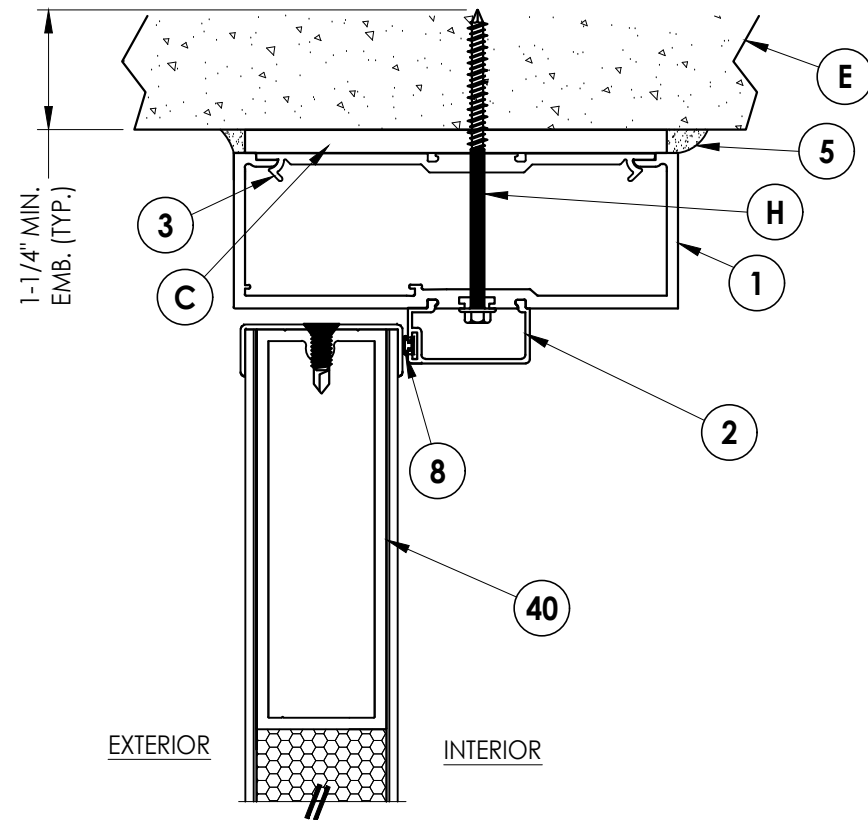
4
4 **VERTICAL CROSS SECTION**



2
4 **VERTICAL CROSS SECTION**
Shown w/1X sub-buck



5
4 **VERTICAL CROSS SECTION**



3
4 **VERTICAL CROSS SECTION**
Direct to Masonry

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: CLINE DOORS
PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

		LFS	FBC	LFS	FBC	DAC	JK	BY
8	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	FBC	DAC	JK	BY
7	7/23/25	ADD MORTISE LOCK	LFS	FBC	DAC	JK	BY	
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	FBC	DAC	JK	BY
5	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	FBC	DAC	JK	BY
4	7/7/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	FBC	DAC	JK	BY
NO.	DATE	REVISIONS						

DATE: 02/02/12

SCALE: N.T.S.

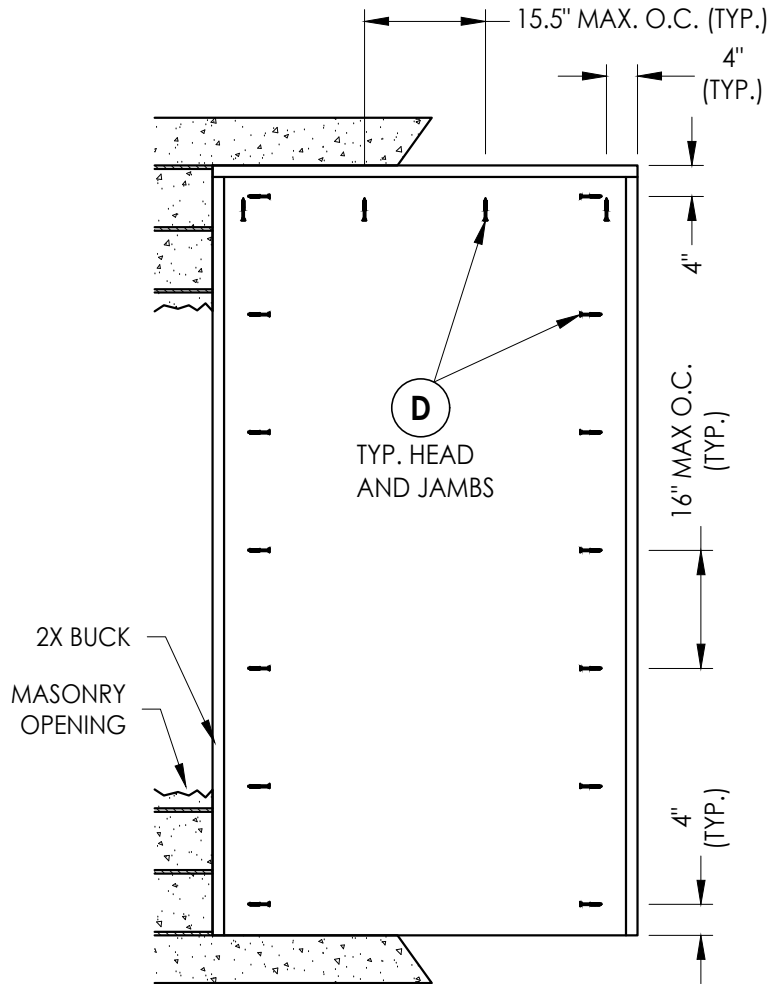
DWG. BY: JK

CHK. BY: LFS

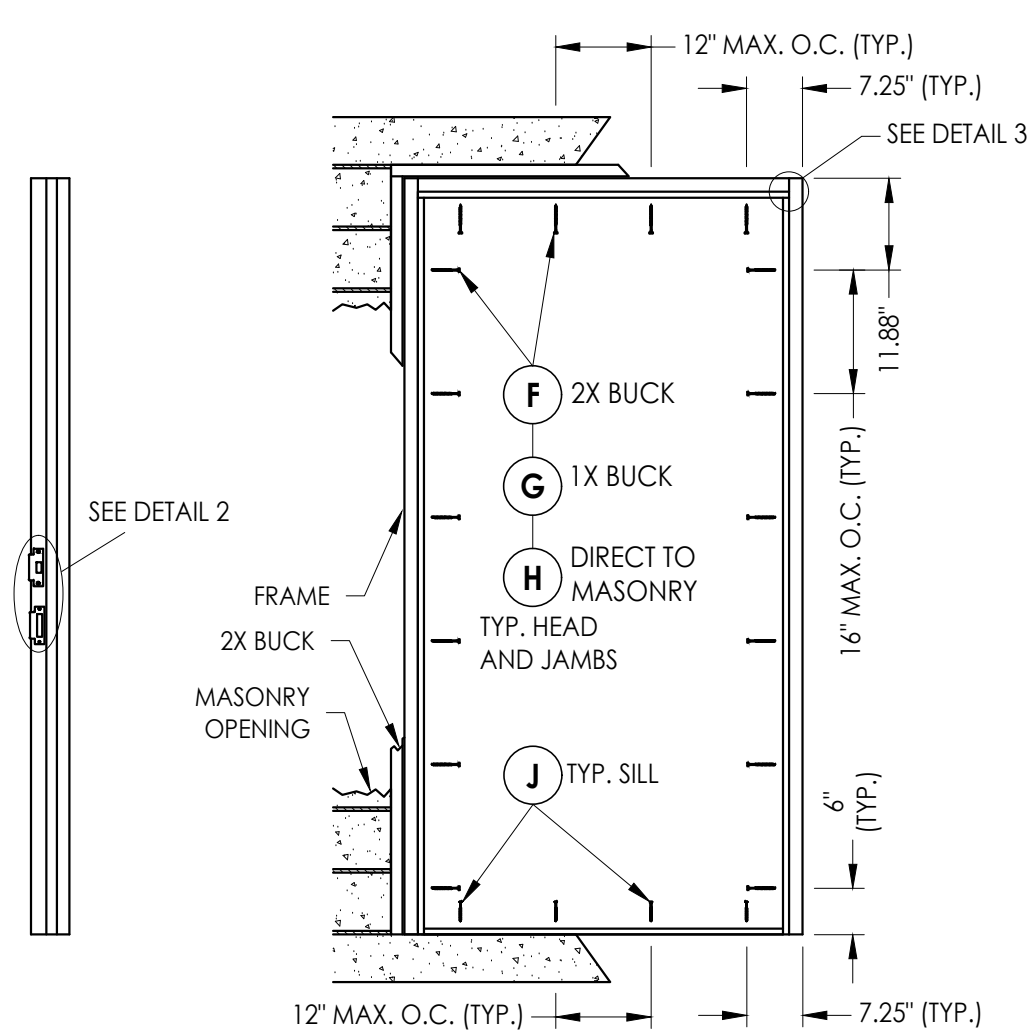
DRAWING NO.: FL-6336.4

SHEET 4 OF 7

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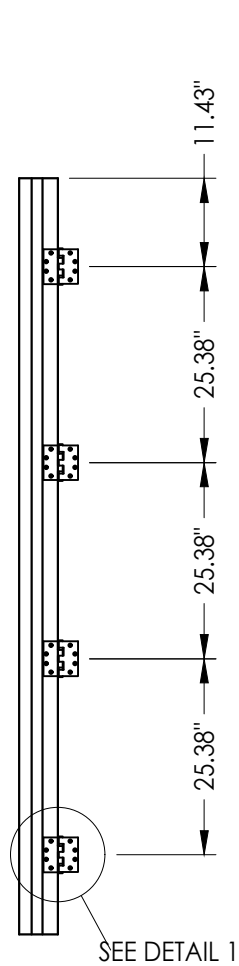


BUCK ANCHORING



STRIKE JAMB

FRAME ANCHORING



HINGE JAMB

MAX. FRAME DIMENSION 51.5" X 98.0"

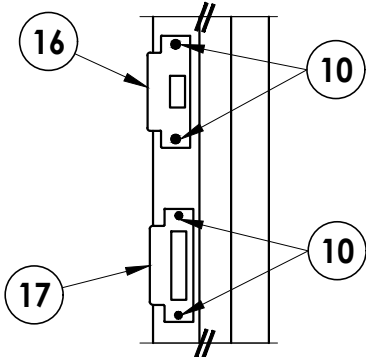
CONCRETE ANCHOR NOTES:

- 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:

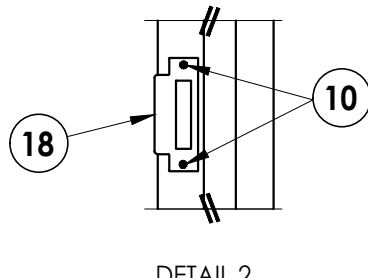
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

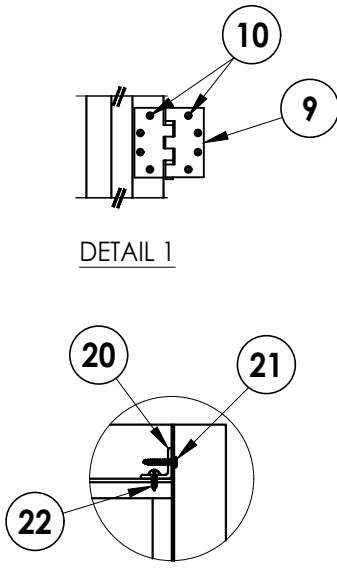
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



DETAIL 1
LOCK & DEADBOLT



DETAIL 2
MORTISE LOCK



DETAIL 3

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:
CLINE DOORS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
(4' X 8')

NO.	DATE	REVISIONS
8	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
7	7/23/25	ADD MORTISE LOCK LFS
6	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
5	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
4	7/7/17	UPDATE TO 6TH ED. (2017) FBC JK

DATE: 02/02/12

SCALE: N.T.S.

DWG. BY: JK

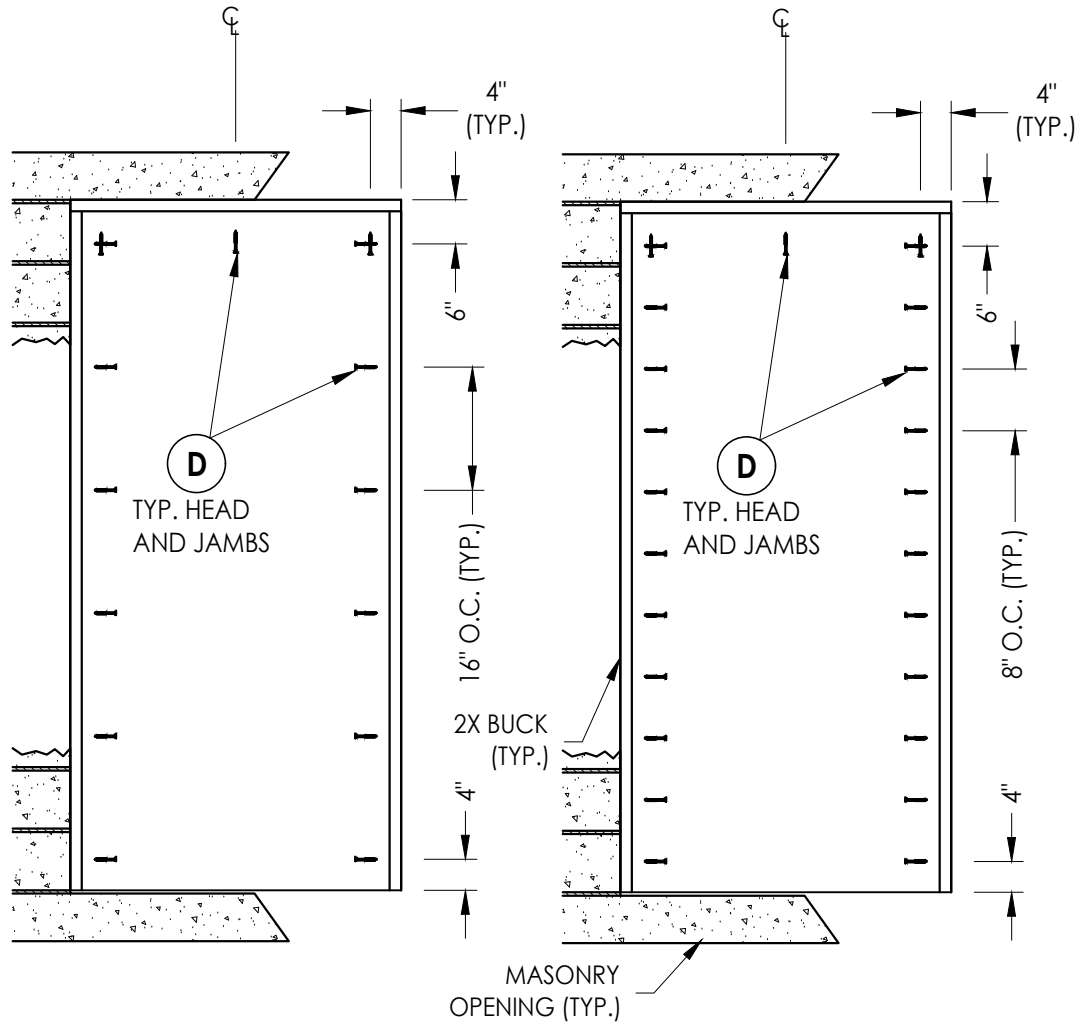
CHK. BY: LFS

DRAWING NO.:

FL-6336.4

SHEET 5 OF 7

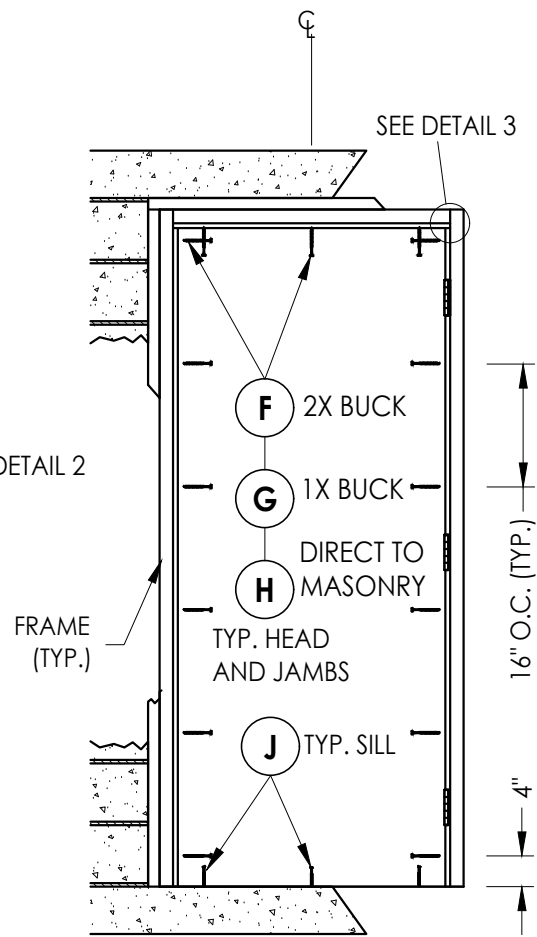
G:\2023 FBC Drawings 7-20-26\Cline Aluminum Doors\FL-6336 R12\FL-6336.dwg



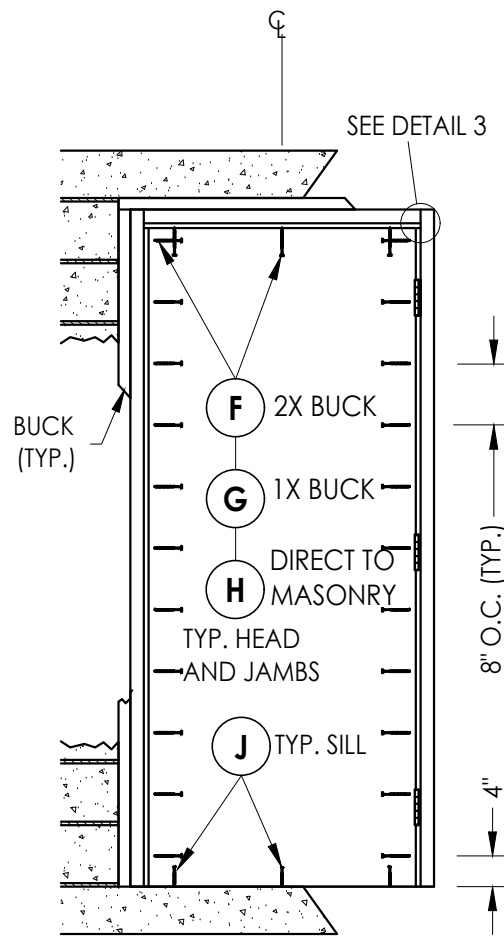
BUCK ANCHORING
Max. D.P. <= 70 PSF

BUCK ANCHORING
Max. D.P. <= 90 PSF

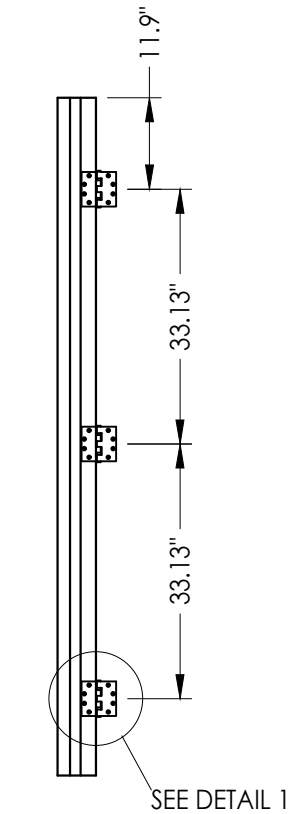
STRIKE JAMB



FRAME ANCHORING
Max. D.P. <= 70 PSF



FRAME ANCHORING
Max. D.P. <= 90 PSF



HINGE JAMB

MAX. FRAME DIMENSION 40" X 88"

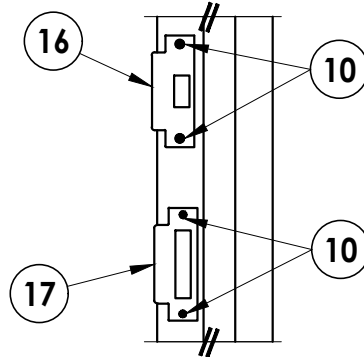
CONCRETE ANCHOR NOTES:

- 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:

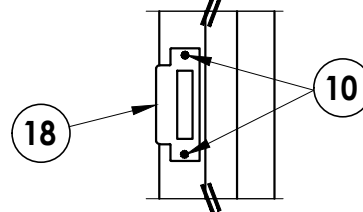
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW BUILDEX TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

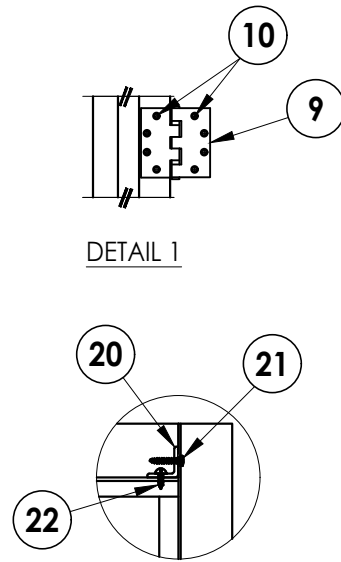
- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



DETAIL 2
LOCK & DEADBOLT



DETAIL 2
MORTISE LOCK



DETAIL 3

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:
CLINE DOORS

PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
(3' X 7')

		7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
8		7/23/25	ADD MORTISE LOCK		LFS
7		7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
6		8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
5		7/7/17	UPDATE TO 6TH ED. (2017)	FBC	JK
4		NO	DATE		BY
REVISIONS					

DATE: 02/02/12

SCALE: N.T.S.

DWG. BY: JK

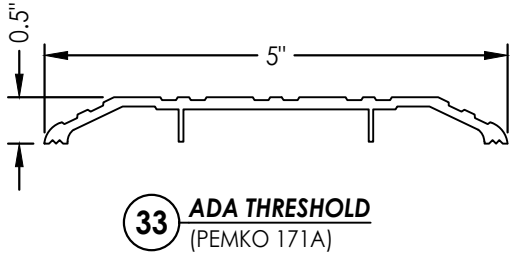
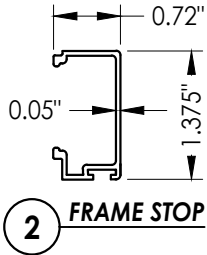
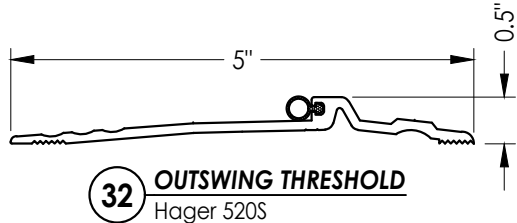
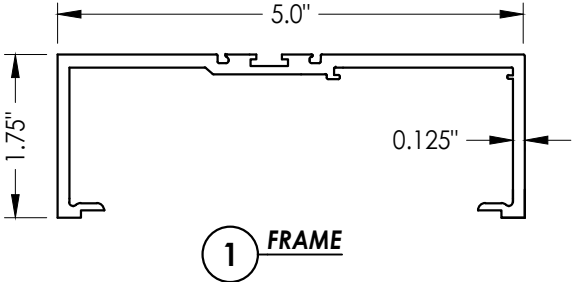
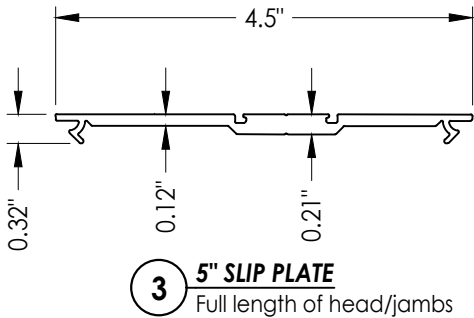
CHK. BY: LFS

DRAWING NO.: FL-6336.4

SHEET 6 OF 7

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK (G >= 0.55)	WOOD
B	2X BUCK (G >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 3-1/2" HEX LAG SCREW (1-1/2" MIN. EMBEDMENT)	STEEL
G	1/4" X 4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
H	1/4" x 3-1/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
J	1/4" x 1-3/4" HH DeWALT OR ITW CONCRETE SCREW	STEEL
1	FRAME	ALUM 6063 T5
2	FRAME STOP	ALUM 6063 T5
3	5" SLIP PLATE	ALUM 6063 T5
5	SILICONE SEALANT	SILICONE
7	WEATHERSTRIP	PVC
8	WOOL PILE WEATHERSTRIP	-
9	4-1/2" X 4-1/2" HINGE	STEEL
10	#12 X 11/16" PPH SELF-DRILLING SMS	STEEL
16	ANSI DEADBOLT STRIKE PLATE	STEEL
17	ANSI LATCH STRIKE PLATE	STEEL
18	MORTISE LOCK STRIKE PLATE	STEEL
20	CORNER REINFORCEMENT	STEEL
21	#10 X 1" PPH SMS	STEEL
22	#10 X 1/2" PPH SMS	STEEL
23	EXIT DEVICE STRIKE PLATE	STEEL
24	DOOR SWEEP (PEMKO 345AV)	-
25	#6 X 5/8" PPH SMS	STEEL
32	OUTSWING THRESHOLD	ALUM
33	ADA THRESHOLD (PEMKO 171A)	ALUM
40	DOOR PANEL (SEE DOOR PANEL DETAILS)	-



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: CLINE DOORS				PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS			
8	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
7	7/23/25	ADD MORTISE LOCK		LFS			
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
5	8/11/20	UPDATE TO 7TH ED. (2020)	FBC	DAC			
4	7/7/17	UPDATE TO 6TH ED. (2017)	FBC	JK			
NO.	DATE			BY			
				REVISIONS			
DATE: 02/02/12							
SCALE: N.T.S.							
DWG. BY: JK							
CHK. BY: LFS							
DRAWING NO.: FL-6336.4							
SHEET 7 OF 7							