

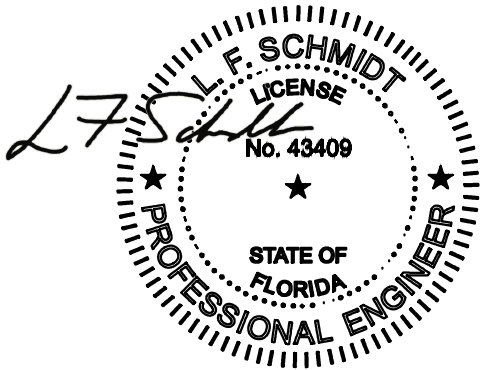
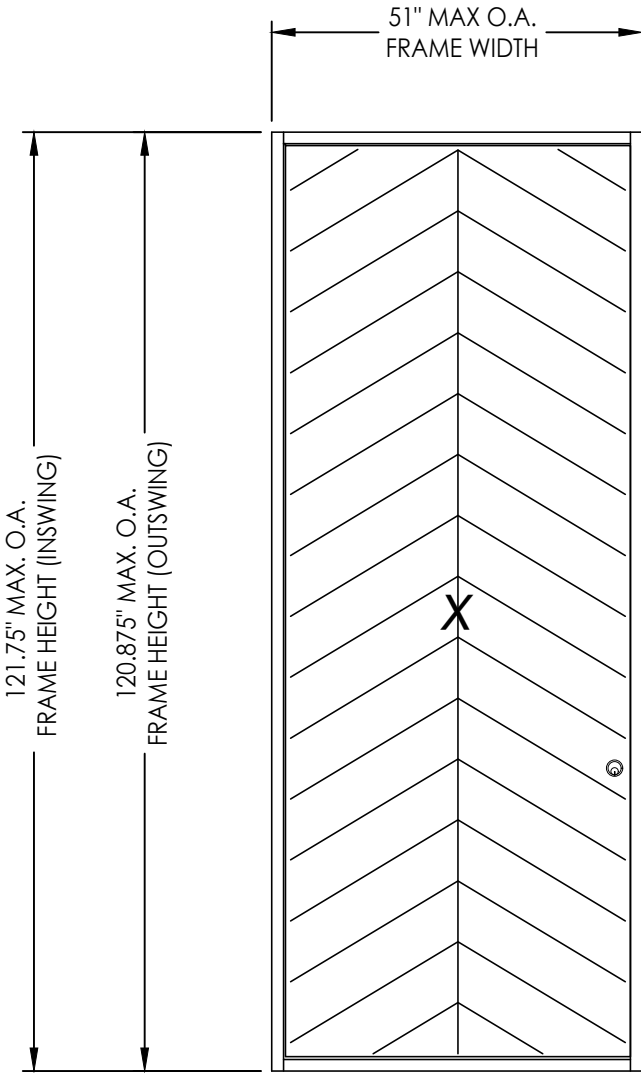
FIBERGLASS OPAQUE
SINGLE DOOR
INSWING/OUTSWING
"IMPACT"

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. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Outswing configurations meet water infiltration requirements for "HVHZ".
7. Inswing 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.

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6	Bill of Materials & Components

CONFIGURATION	DESIGN PRESSURE (PSF) INSWING		DESIGN PRESSURE (PSF) OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
X	+60.0	-60.0	+60.0	-60.0



Digitally signed by Lyndon F Schmidt
Date: 2026.09.10 14:34:17 -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
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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:
MILLWORK 360
FIBERGLASS DOOR

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

NO. DATE

BY

REVISIONS

DATE: 9/10/26
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-29241.9
SHEET 1 OF 6

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

Technical drawing of a fiberglass door panel (Mastergrain) showing dimensions and hardware locations.

Dimensions:

- 47.75" PANEL WIDTH
- 119" PANEL HEIGHT
- 37.75" (Bottom section height)

Hardware locations and callouts:

- Top center: Arrow pointing to the top edge.
- Right side: Arrow pointing to the edge.
- Bottom center: Arrow pointing to the bottom edge.
- Right side (lower): Arrow pointing to the edge with the text "SEE HARDWARE CHART".

Callouts:

- 1/2 (Top left)
- 2/2 (Bottom center)

40 **FIBERGLASS DOOR PANEL**
MASTERGRAIN

The diagram illustrates the cross-section of a composite rail assembly, divided into an EXTERIOR and an INTERIOR section by a break line (//).

EXTERIOR View (Top):

- TO RAIL (WOOD):** The top layer, shown with a wavy wood grain pattern.
- TOP RAIL REINFORCEMENT (LVL):** A layer of horizontal lines below the wood.
- FIBERGLASS SKIN:** The main body of the rail, indicated by a dotted pattern.
- Dimensions:**
 - Width: 2.25"
 - Top layer thickness: 0.9"
 - Reinforcement layer thickness: 1.4"

INTERIOR View (Bottom):

- FOAM CORE:** The main body of the rail, indicated by a dotted pattern.
- BOTTOM RAIL (LVL):** A layer of horizontal lines at the bottom.
- Dimensions:**
 - Bottom layer thickness: 2.25"

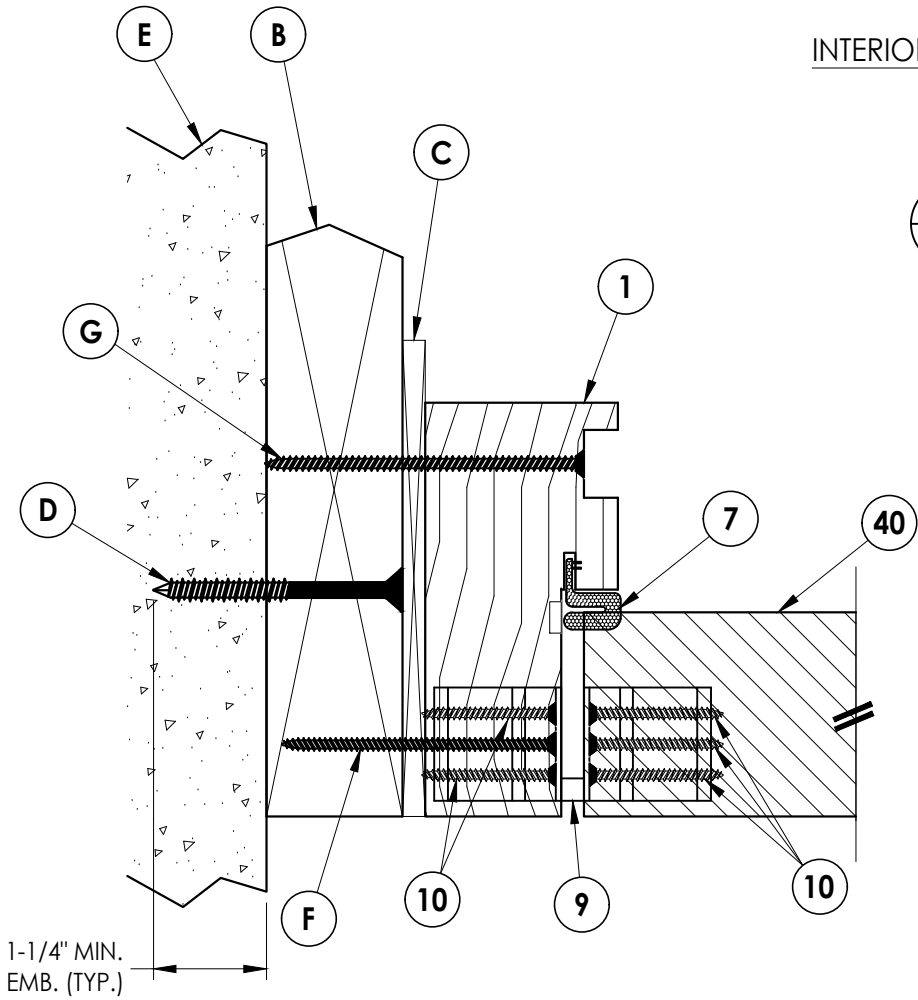
DOOR FRAME ELEVATION

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P.E. No. 43409

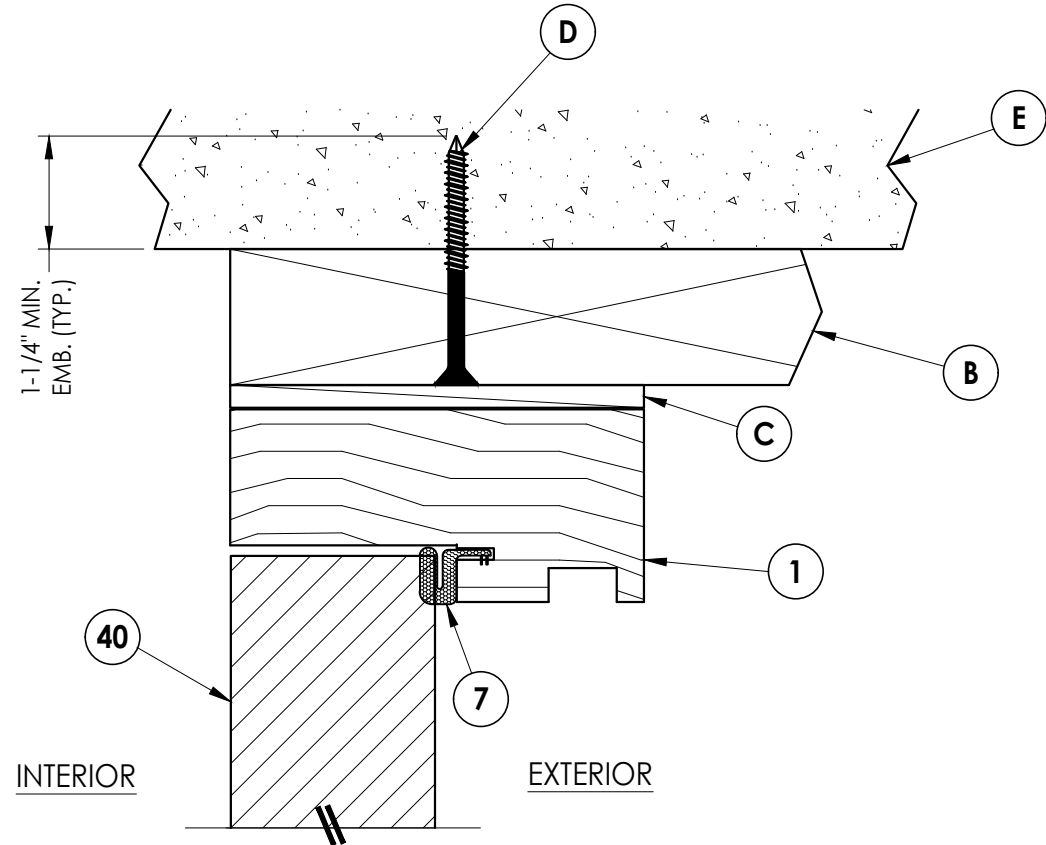
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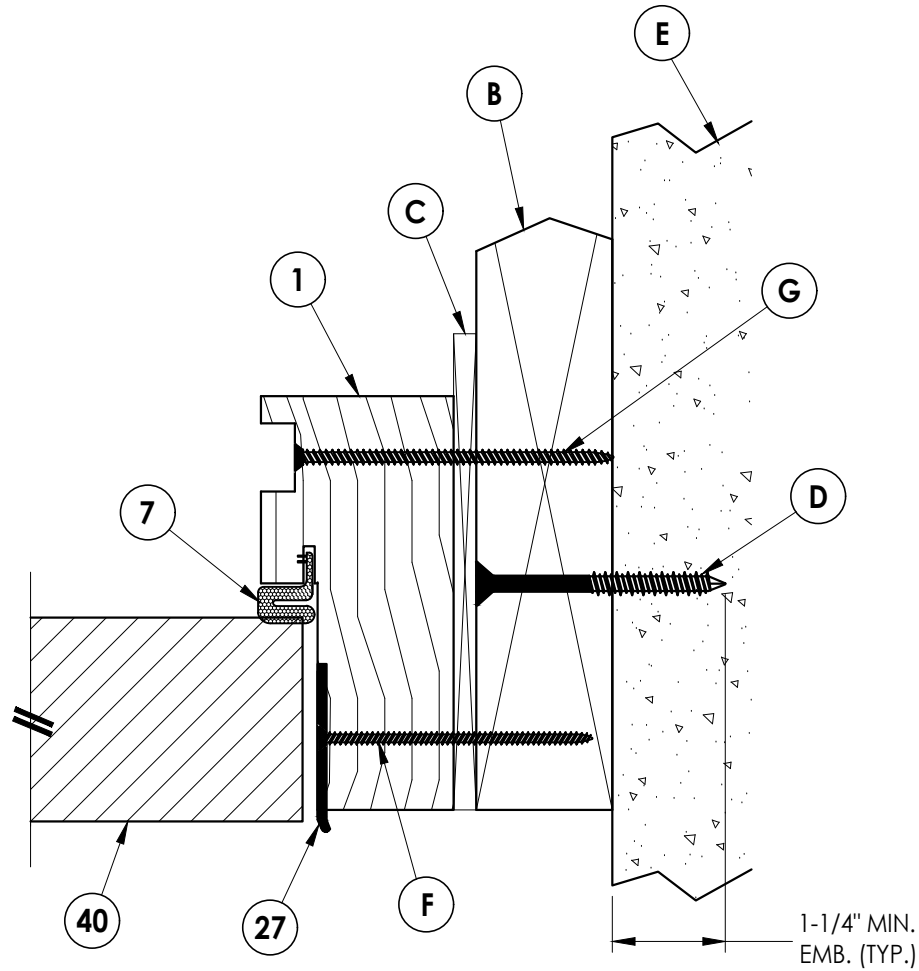
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1
3 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)



3
3 **VERTICAL CROSS SECTION**
Inswing shown (Outswing similar)



2
3 **HORIZONTAL CROSS SECTION**
Inswing shown (Outswing similar)

DATE: 9/10/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-29241.9

SHEET 3 OF 6

Documents Prepared By:
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RW BUILDING CONSULTANTS, INC.
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PRODUCT: MILLWORK 360
FIBERGLASS DOOR

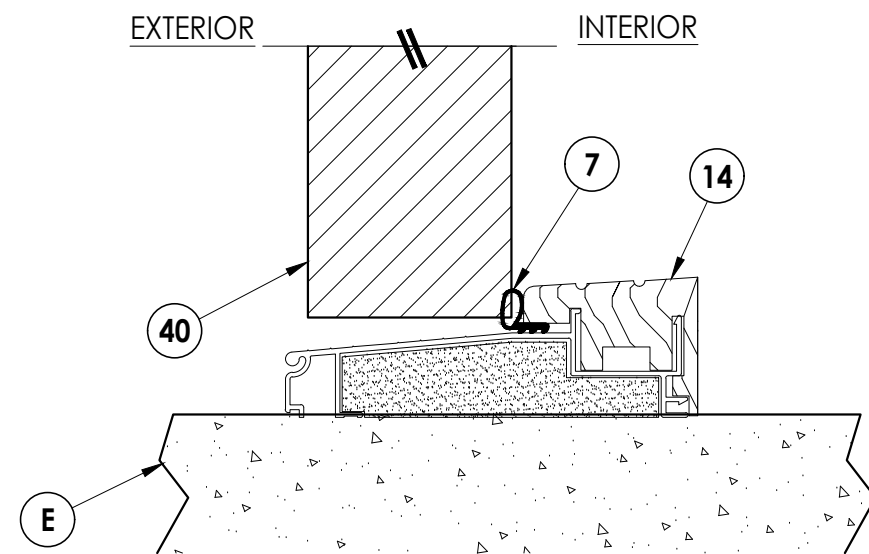
PART OR ASSEMBLY:
HORIZONTAL & VERTICAL
CROSS SECTIONS (2X BUCK)

REVISIONS

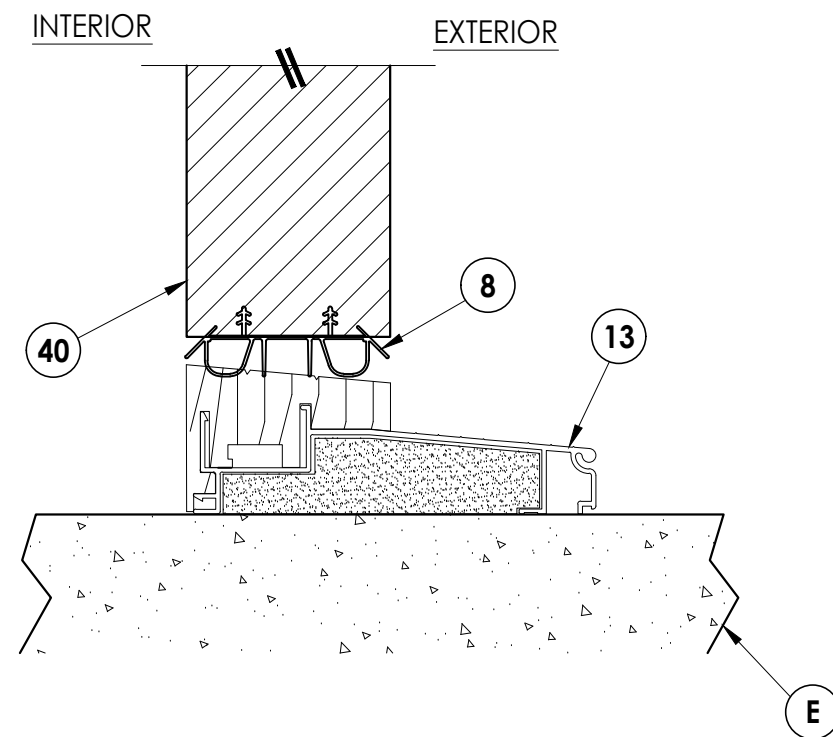
NO. DATE

BY

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1 **VERTICAL CROSS SECTION**
4 Outswing



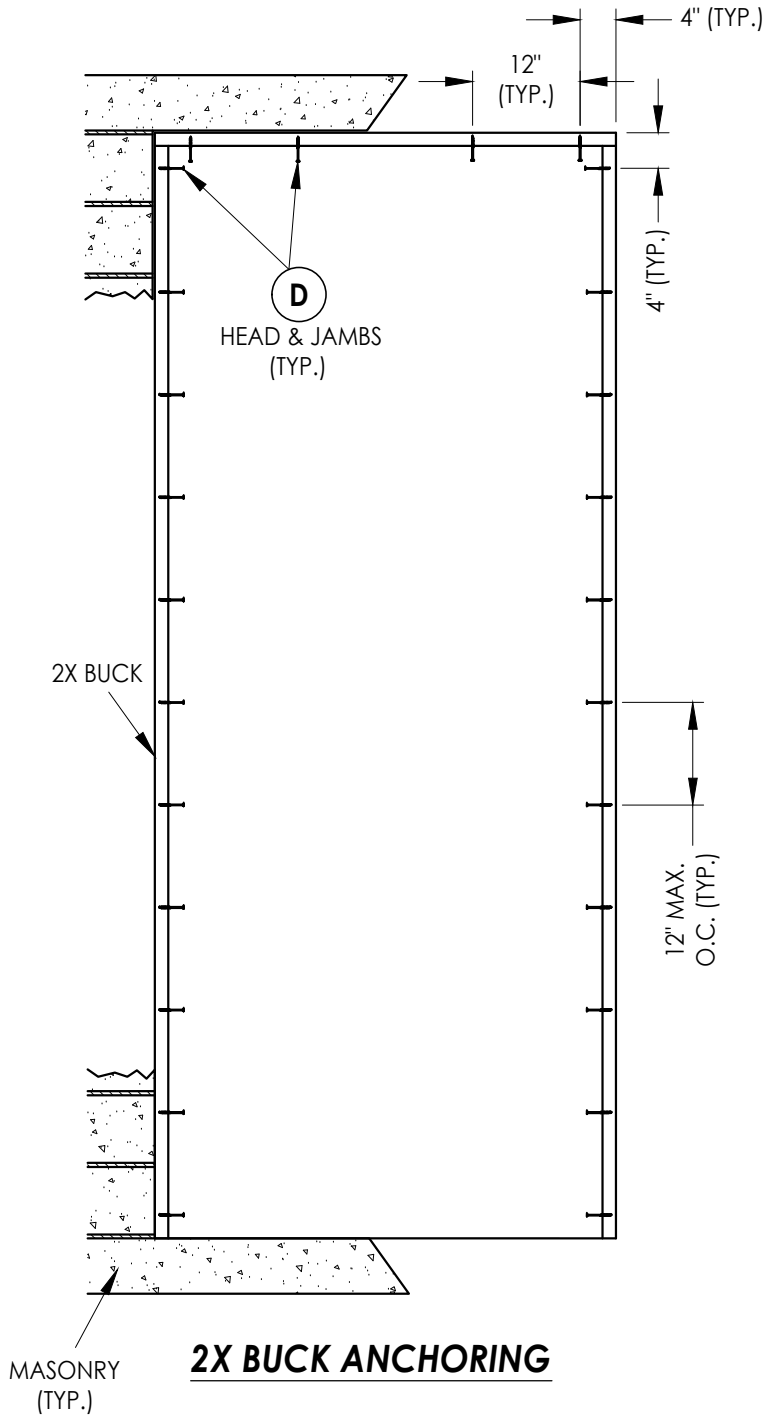
2 4 VERTICAL CROSS SECTION Inswing

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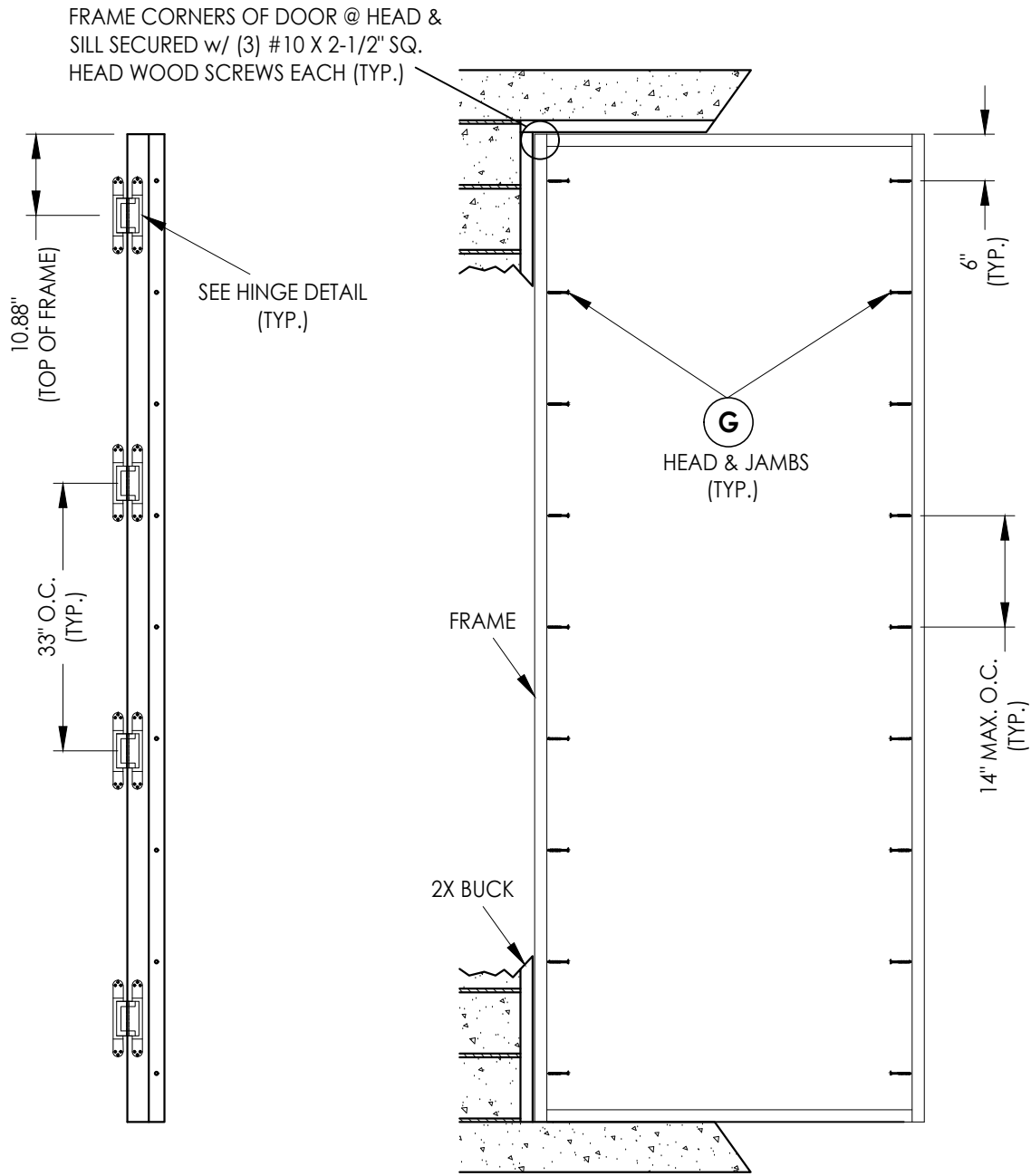
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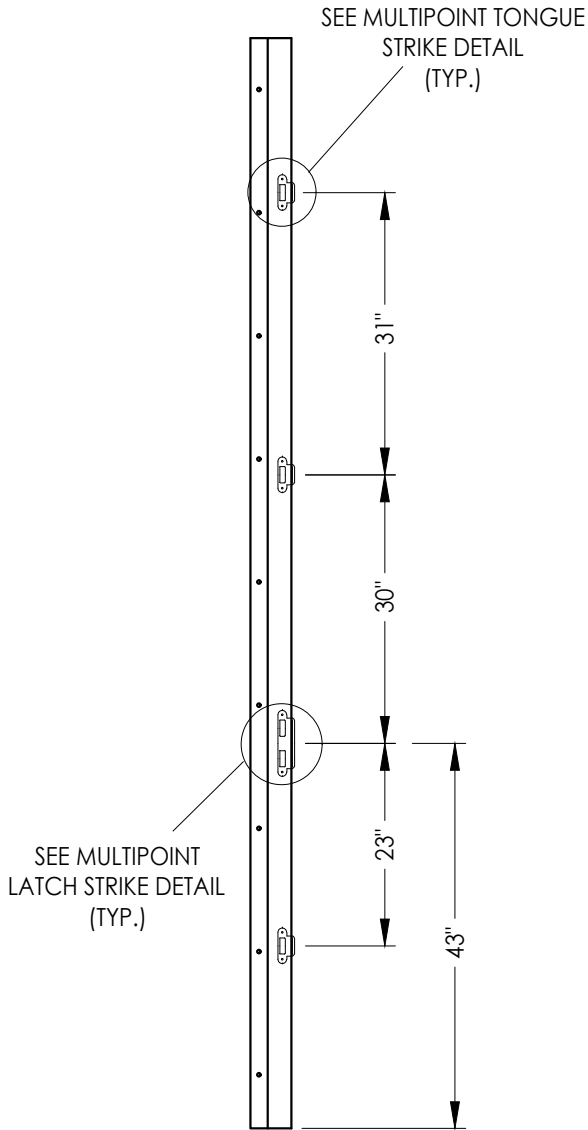


2X BUCK ANCHORING

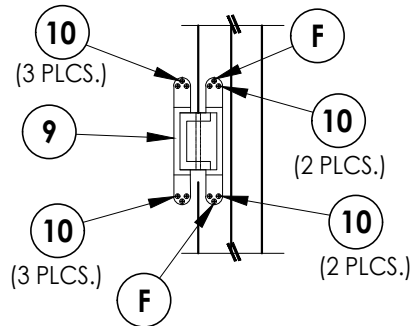


HINGE JAMB

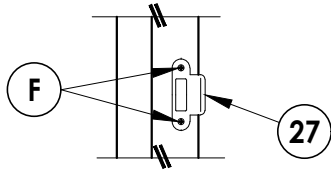
FRAME ANCHORING



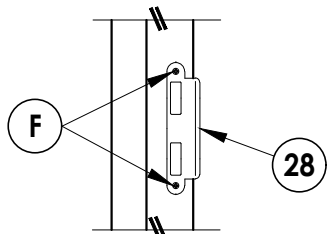
LOCK JAMB



HINGE DETAIL



MULTIPOINT TONGUE STRIKE DETAIL



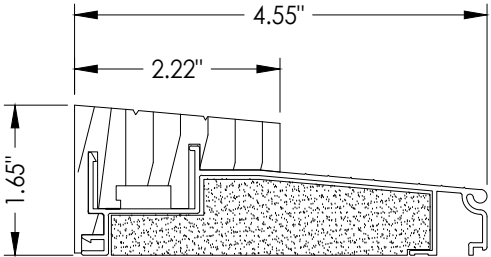
MULTIPOINT LOCK STRIKE DETAIL

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: MILLWORK 360 FIBERGLASS DOOR		PART OR ASSEMBLY: BUCK & FRAME ANCHORING	
DATE: 9/10/26		SCALE: N.T.S.		DWG. BY: LFS	
NO.		DATE		BY	
REVISIONS		DRAWING NO.: FL-29241.9		SHEET 5 OF 6	
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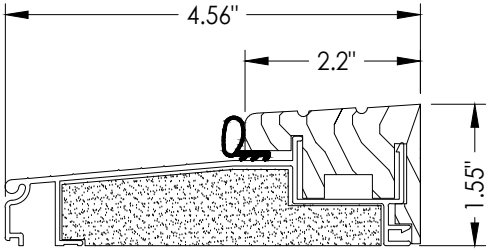
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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	#10 X 3" PFH SMS	STEEL
G	#10 X 3-1/2" PFH SMS (1.5" MIN. EMBEDMENT)	STEEL
1	DOOR JAMB	WOOD
7	WEATHERSTRIP	FOAM
8	SWEEP	VINYL
9	CONCEALED HINGE (SIMONSWERK TECTUS 640-3D)	STEEL
10	#10 X 1-1/2" PFH SMS	STEEL
13	INSWING THRESHOLD	ALUM/COMP
14	OUTWING THRESHOLD	ALUM/COMP
27	MULTIPOINT TONGUE STRIKE PLATE	STEEL
28	MULTIPOINT LOCK STRIKE PLATE	STEEL
40	DOOR PANEL	WOOD

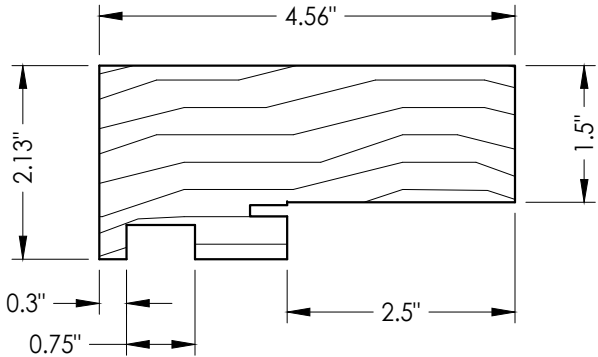
WOOD FRAME COMPONENTS: SIPO (UTILE) (G = 0.53)



13 INSWING THRESHOLD
WORLDWIDE



14 OUTWING THRESHOLD
WORLDWIDE



1 DOOR JAMB

CORROSION RESISTANCE - SALTWATER ENVIRONMENTS

Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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 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.

Documents Prepared By:
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PRODUCT: MILLWORK 360
FIBERGLASS DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	BY	REVISIONS

DATE: 9/10/26

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

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SHEET 6 OF 6