

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED 5180 HOT MELT BUTYL	08/24/2021	R.L.

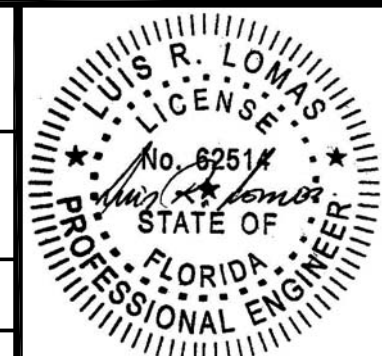
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: WOOD WITH G=.46 MINIMUM SPECIFIC GRAVITY, OR COMPOSITE, OR FRAMESAVER, OR FUSION FRAME.  
DOOR SKIN MATERIAL: STEEL .033" THICK (MINIMUM), FIBERGLASS .085" THICK (MINIMUM).
6. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
7. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
8. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
9. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
11. ALL FASTENERS TO BE CORROSION RESISTANT.
12. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
  - A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
  - B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
  - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
  - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM

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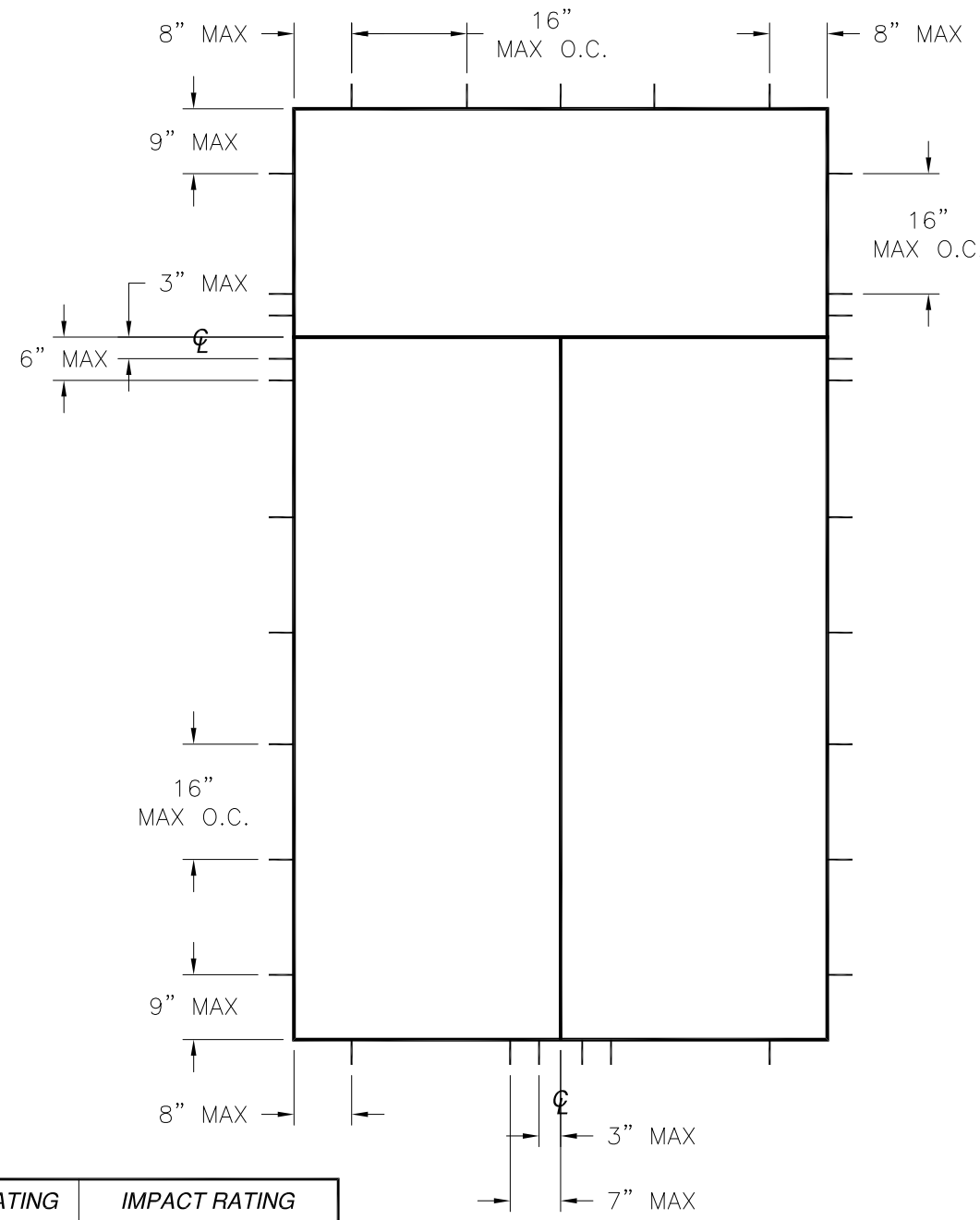
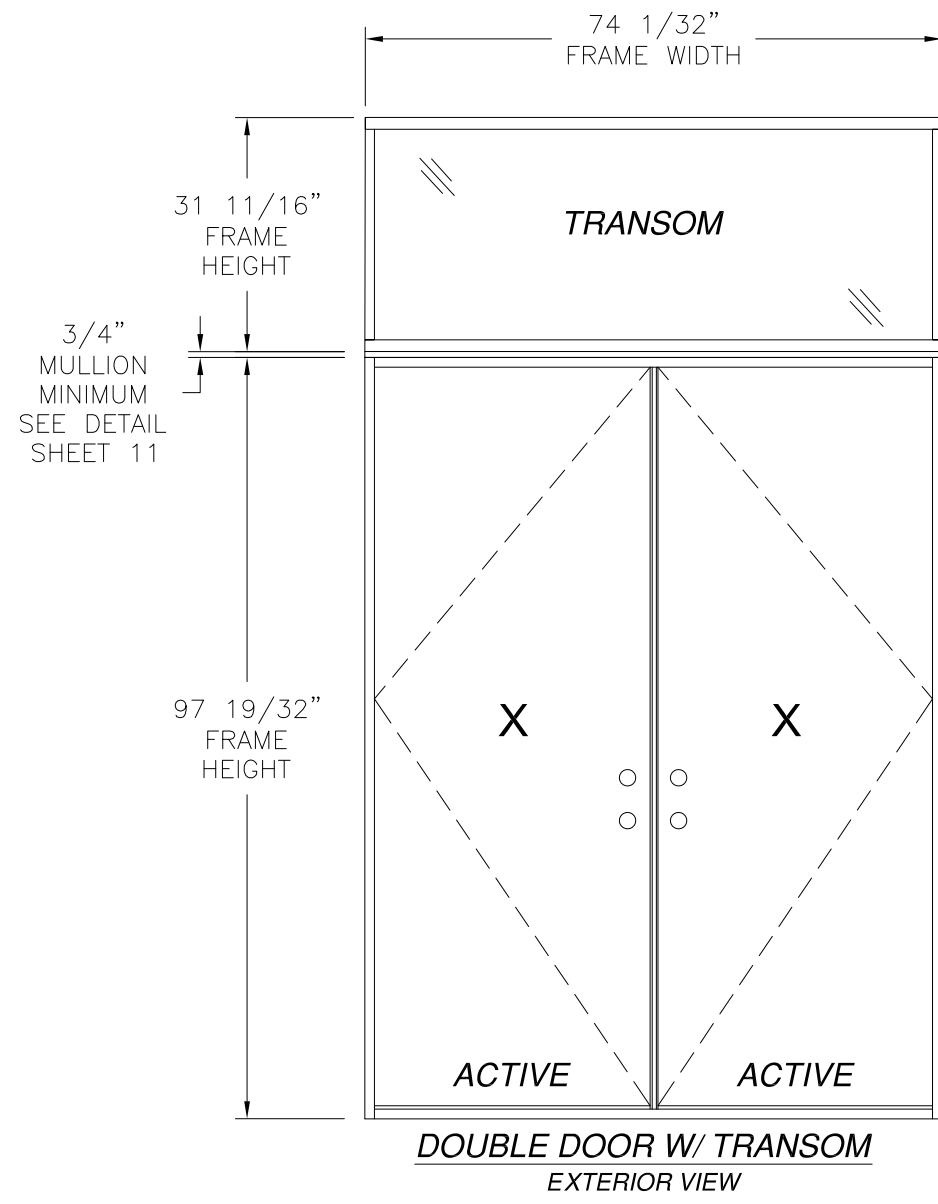
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/TRANSOM – IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-02039	REV H
SCALE NTS	DATE 05/23/13	SHEET 1 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

35 3/4" x 94 15/16" PANEL SIZE SHOWN. OTHER SIZES ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 23.56 FT<sup>2</sup>

HARDWARE SCHEDULE	
A.	F-SERIES LOCK ASSEMBLY DOOR KNOB BY SCHLAGE.
B.	B-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
C.	F-SERIES DEADBOLT ASSEMBLY BY SCHLAGE.
D.	RESIDENTIAL GRADE DOOR HANDLE ASSEMBLY BY EMTEK (ALTERNATE).
E.	MULTI-POINT LOCK HANDLE ASSEMBLY BY TRILENNIUM (ALTERNATE).
F.	(3) 4" x 4" BALL BEARING HINGES BY PENROD.
G.	(3) 4" x 4" SPRING BOMMER HINGES BY PENROD. (ALTERNATE)

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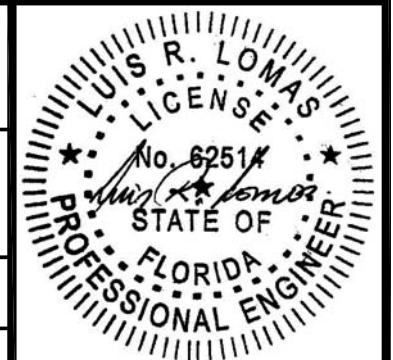
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
W/TRANSOM – IMPACT  
ELEVATION AND ANCHOR LAYOUT

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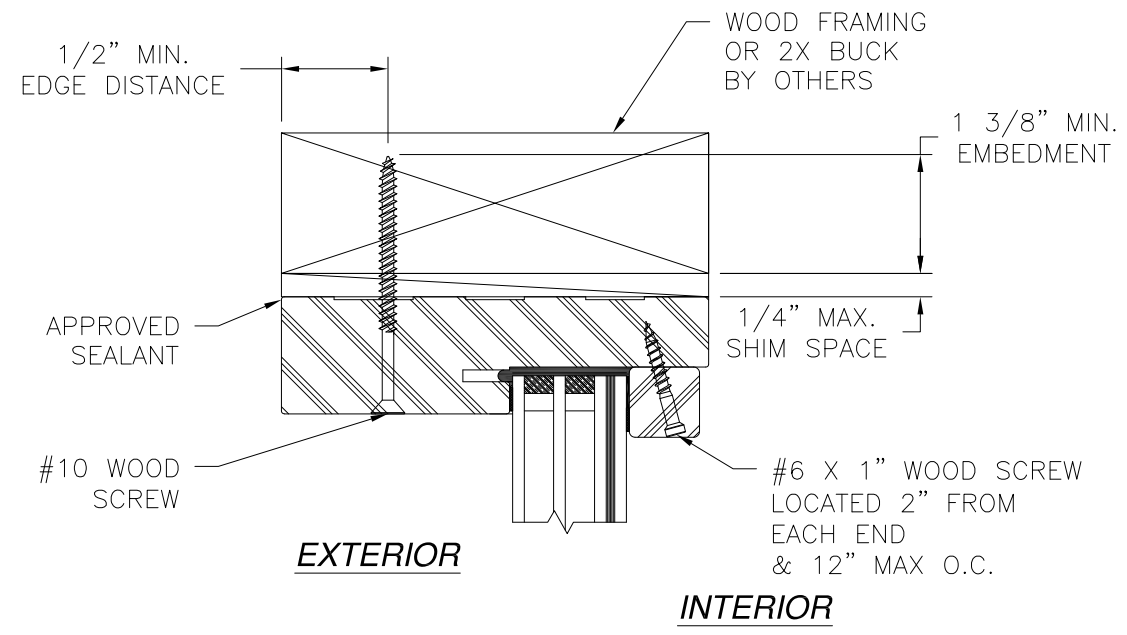
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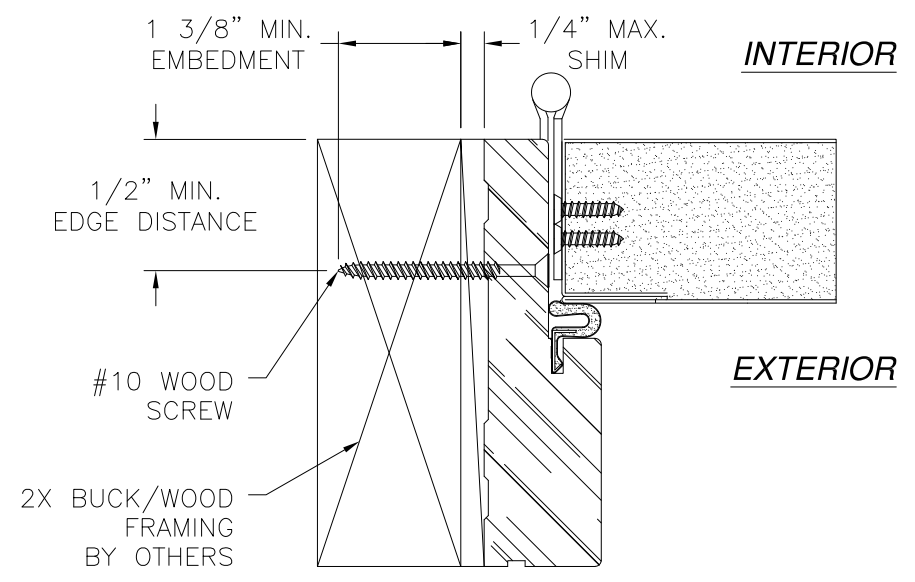
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EXTERIOR

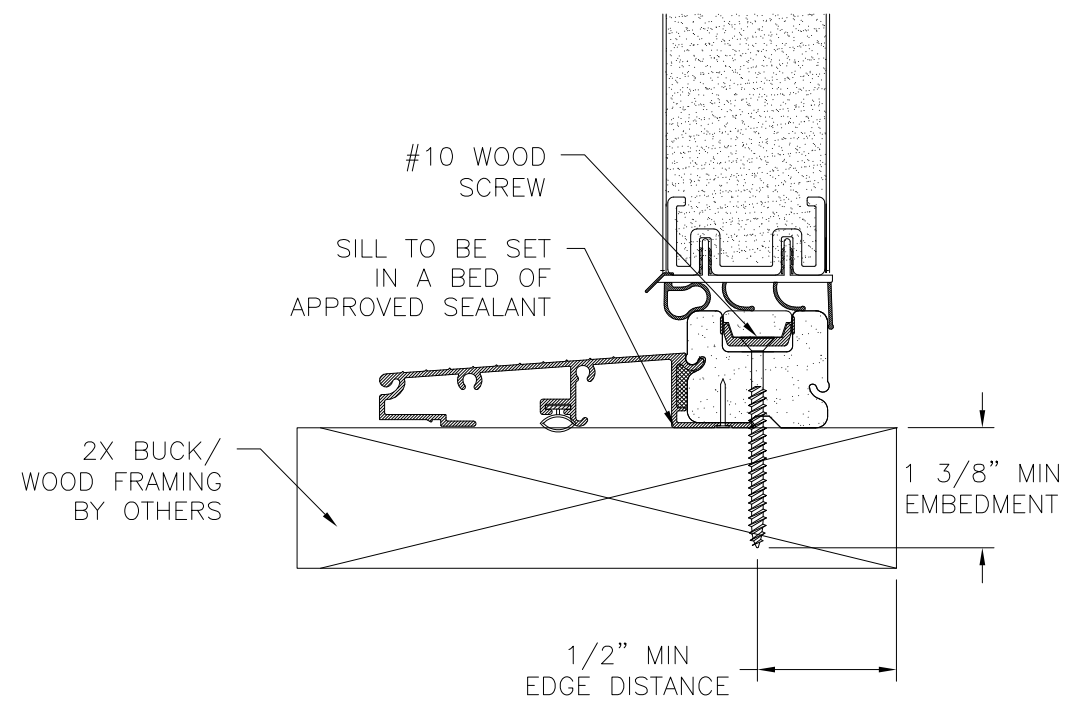
INTERIOR



INTERIOR

EXTERIOR

**HORIZONTAL CROSS SECTION**  
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING



**VERTICAL CROSS SECTION**  
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING  
TRANSOM HEAD SHOWN  
TRANSOM JAMB SIMILAR

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
  2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

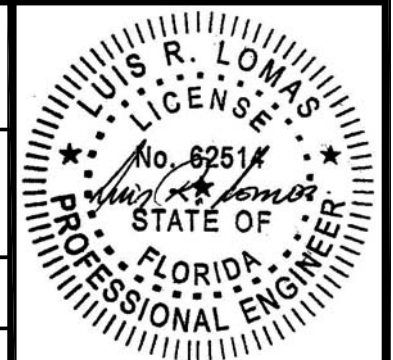
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
W/TRANSOM - IMPACT  
INSTALLATION DETAILS

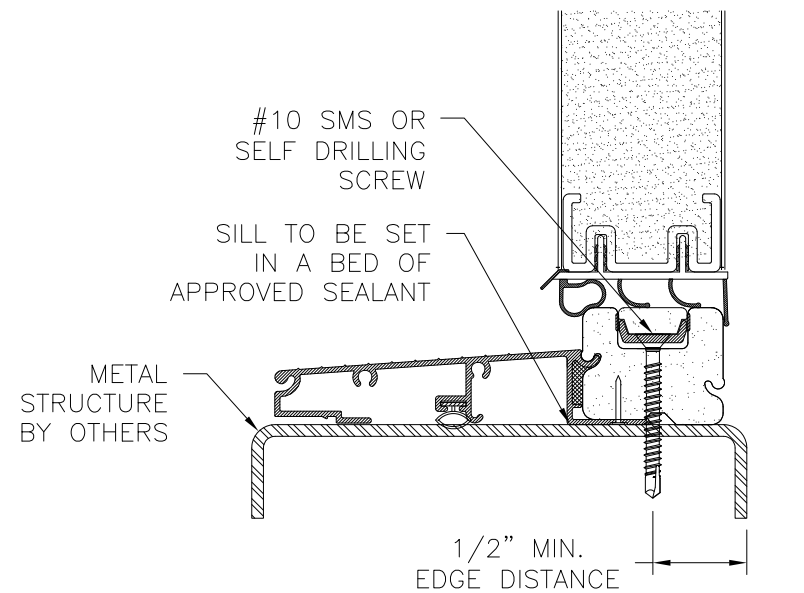
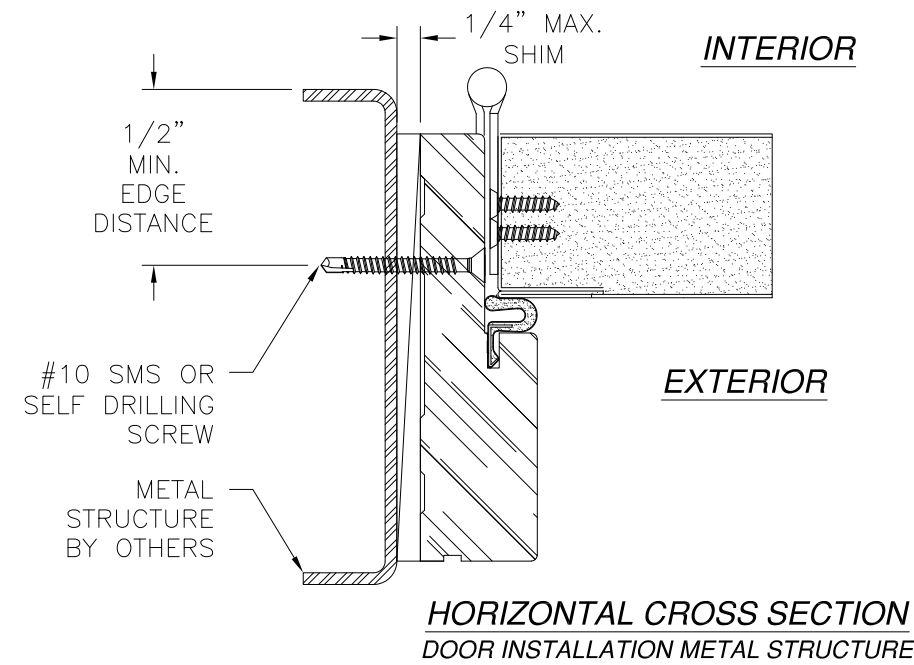
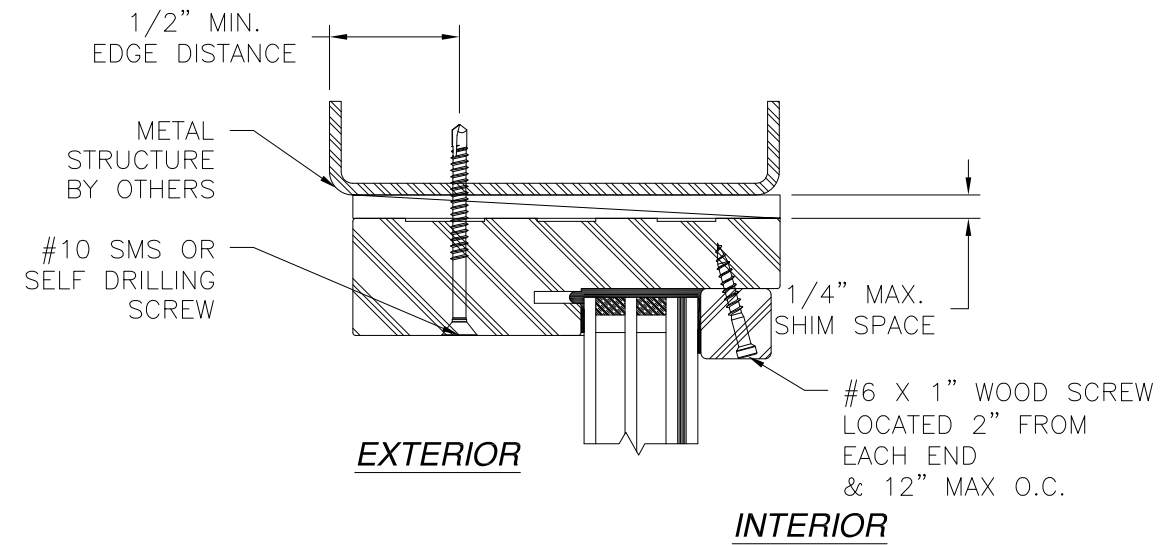
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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION METAL STRUCTURE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

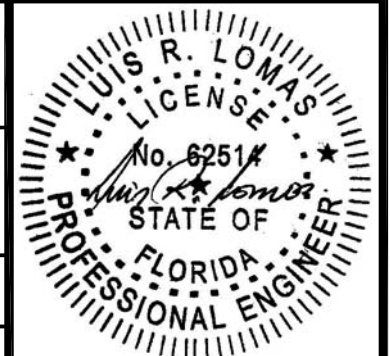
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 DOOR INSTALLATION METAL STRUCTURE

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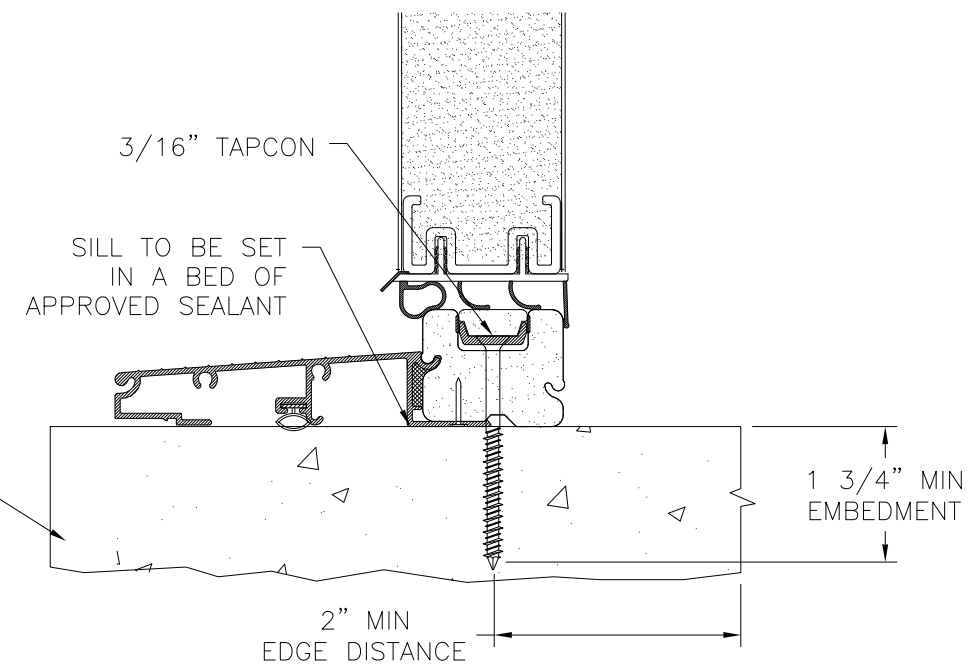
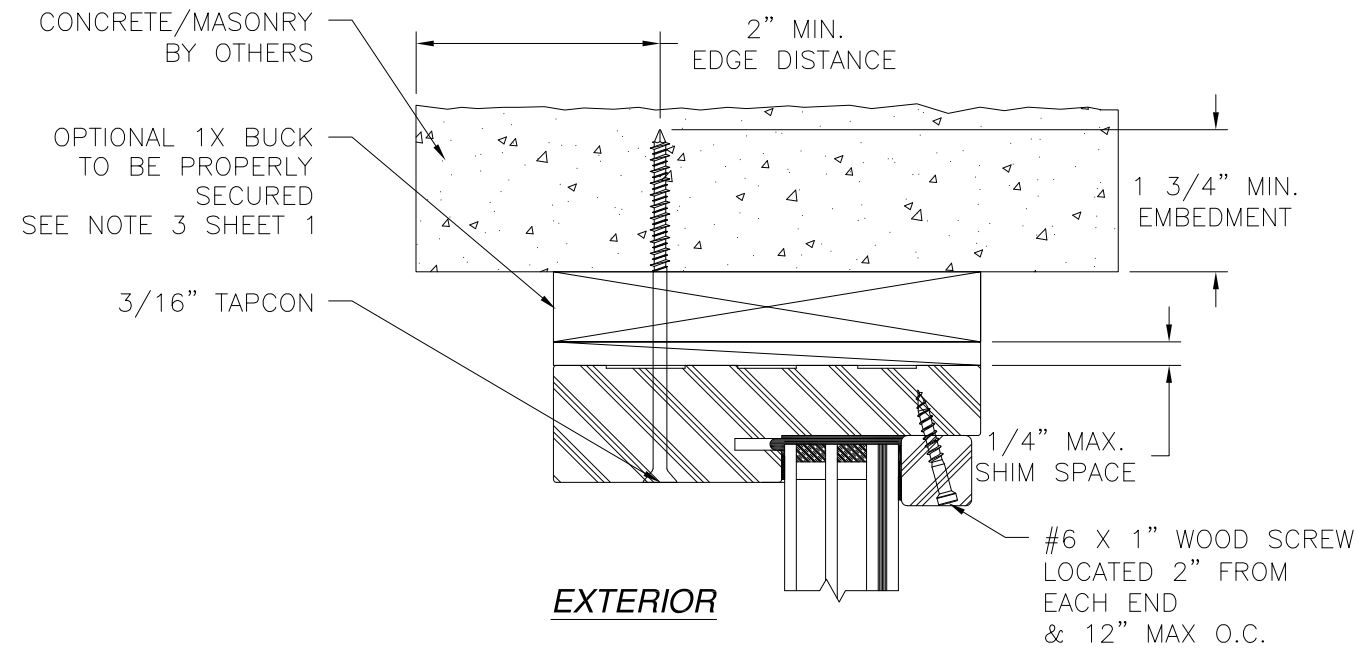
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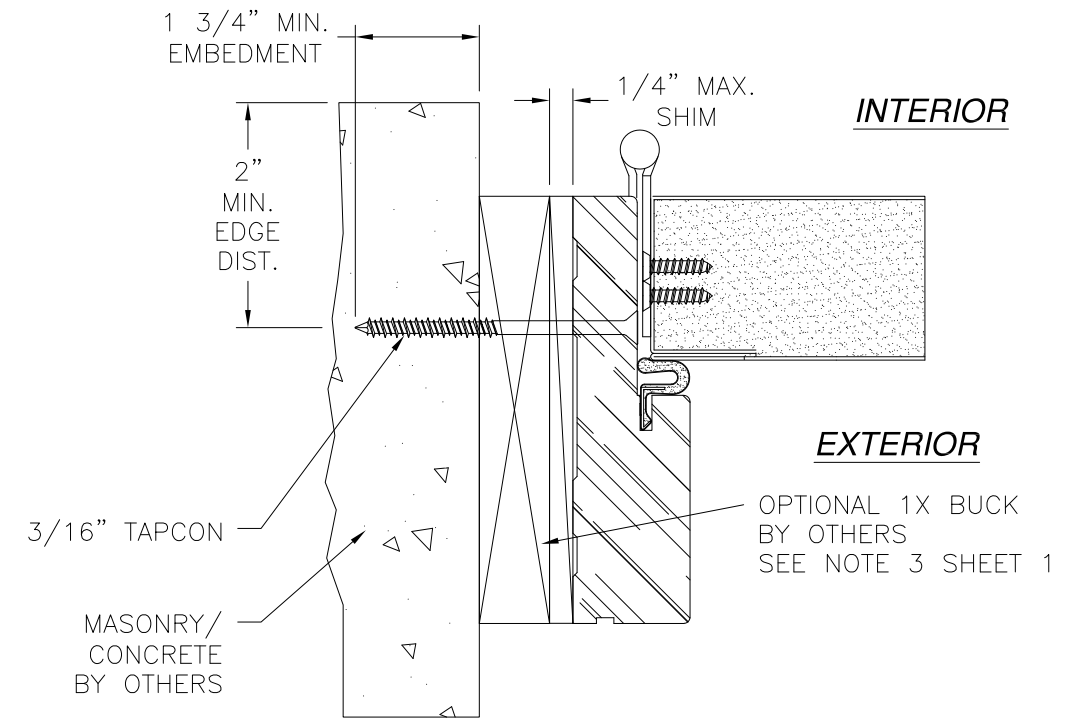
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**VERTICAL CROSS SECTION**  
**DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE**  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

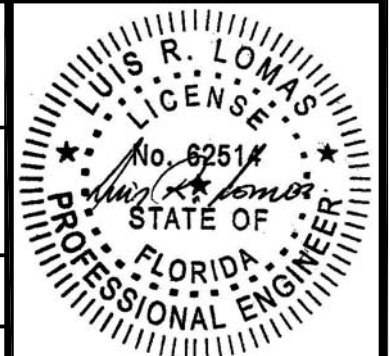
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**HORIZONTAL CROSS SECTION**  
**DOOR INSTALLATION CONCRETE/MASONRY**

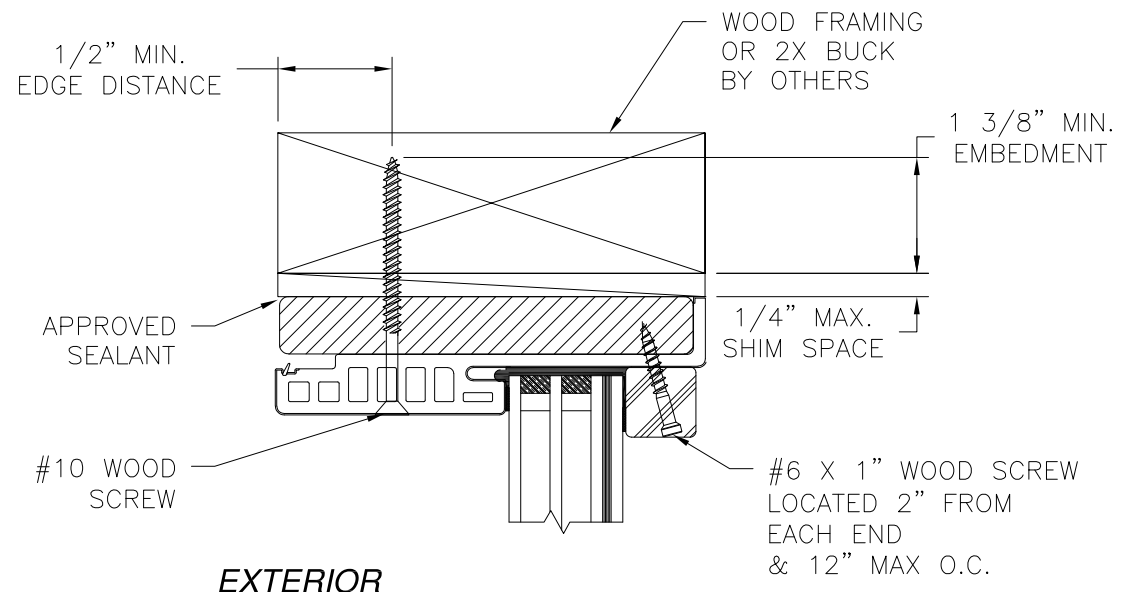
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<b>STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR</b> <b>W/TRANSOM - IMPACT</b> <b>INSTALLATION DETAILS</b>		
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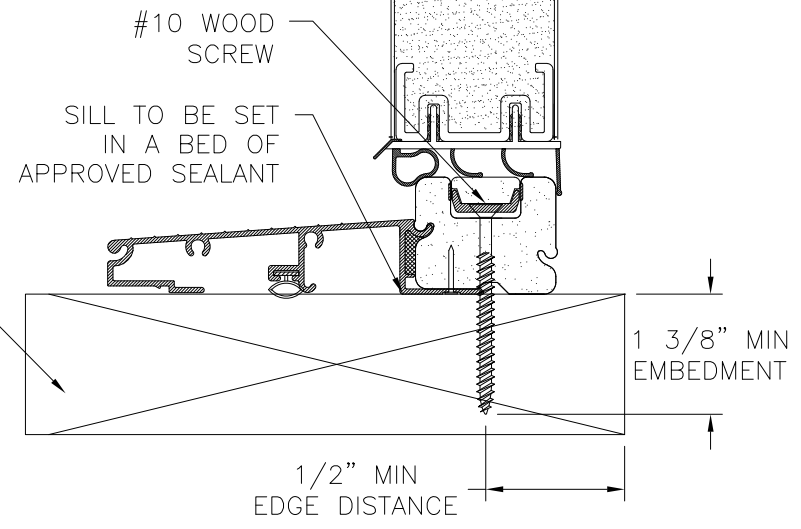
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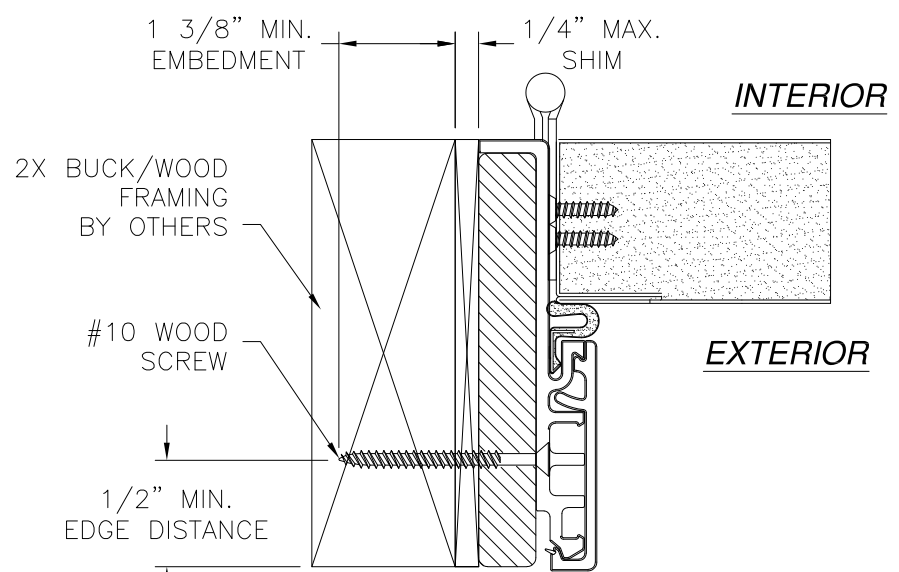
**EXTERIOR**

**INTERIOR**



**VERTICAL CROSS SECTION**

DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING  
TRANSOM HEAD SHOWN  
TRANSOM JAMB SIMILAR



**INTERIOR**

**EXTERIOR**

**HORIZONTAL CROSS SECTION**  
DOOR INSTALLATION - 2X BUCK/WOOD FRAMING

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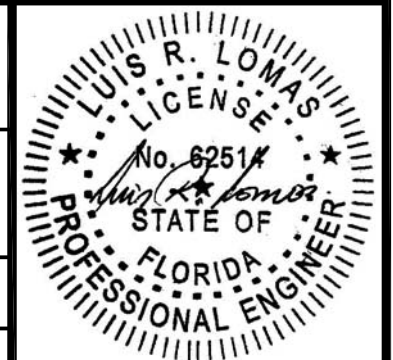
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
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INSTALLATION DETAILS W/FUSION FRAME

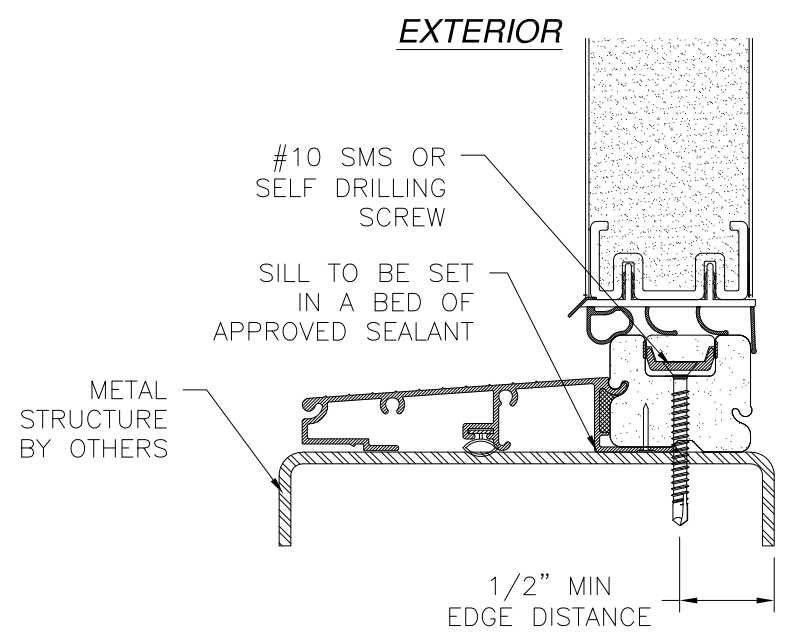
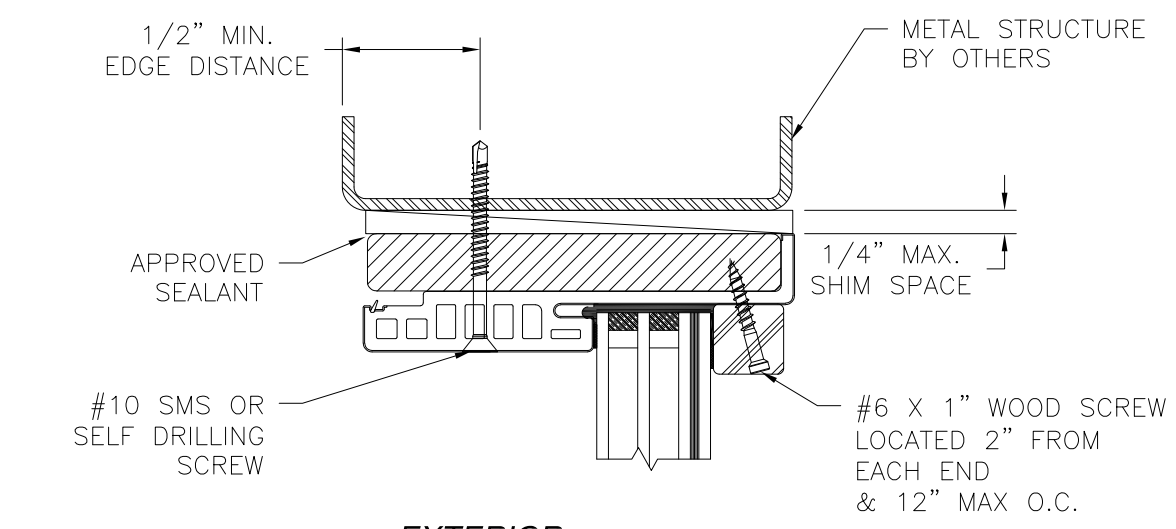
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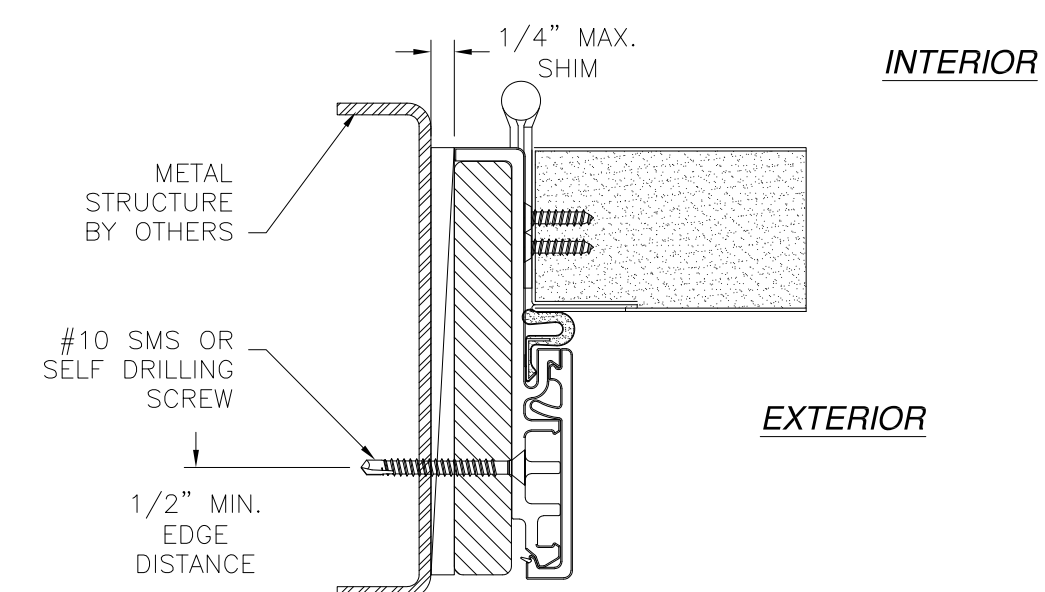


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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION - METAL STRUCTURE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



**HORIZONTAL CROSS SECTION**  
 DOOR INSTALLATION - METAL STRUCTURE

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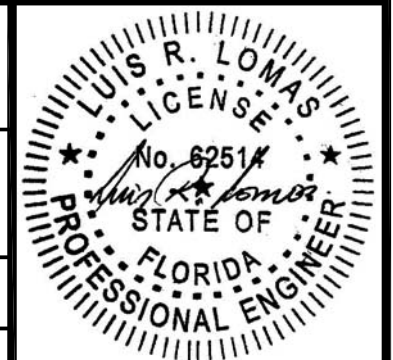
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 INSTALLATION DETAILS W/FUSION FRAME

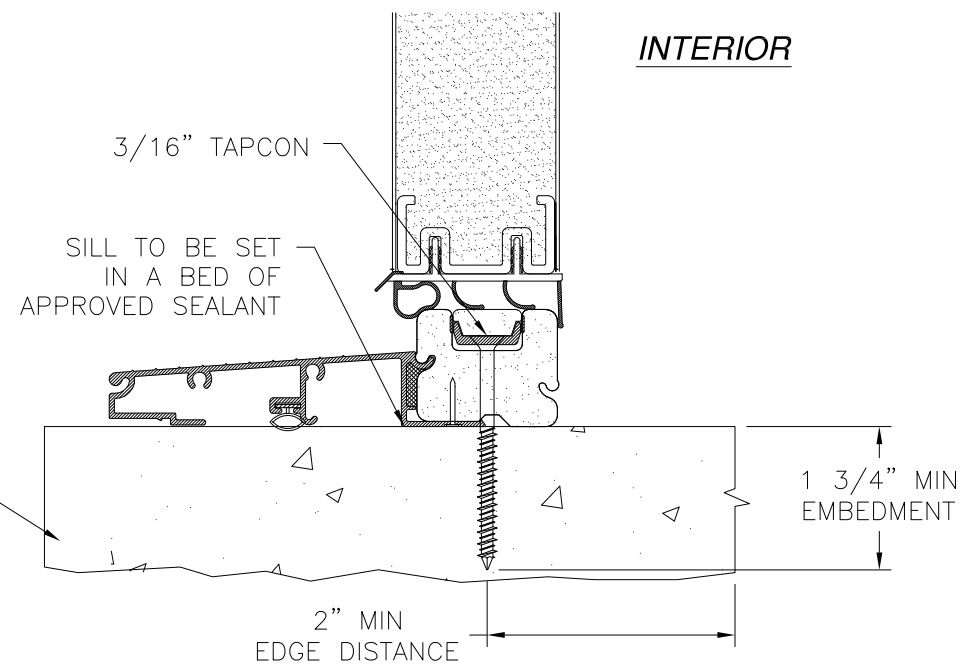
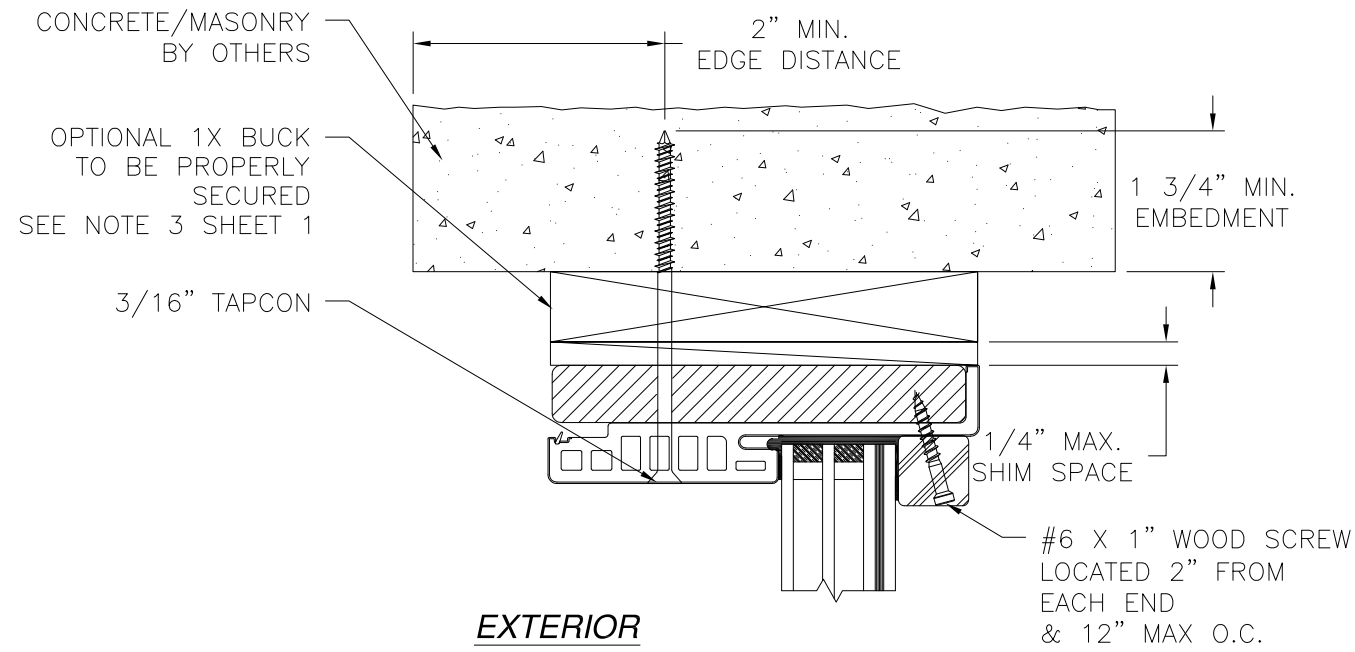
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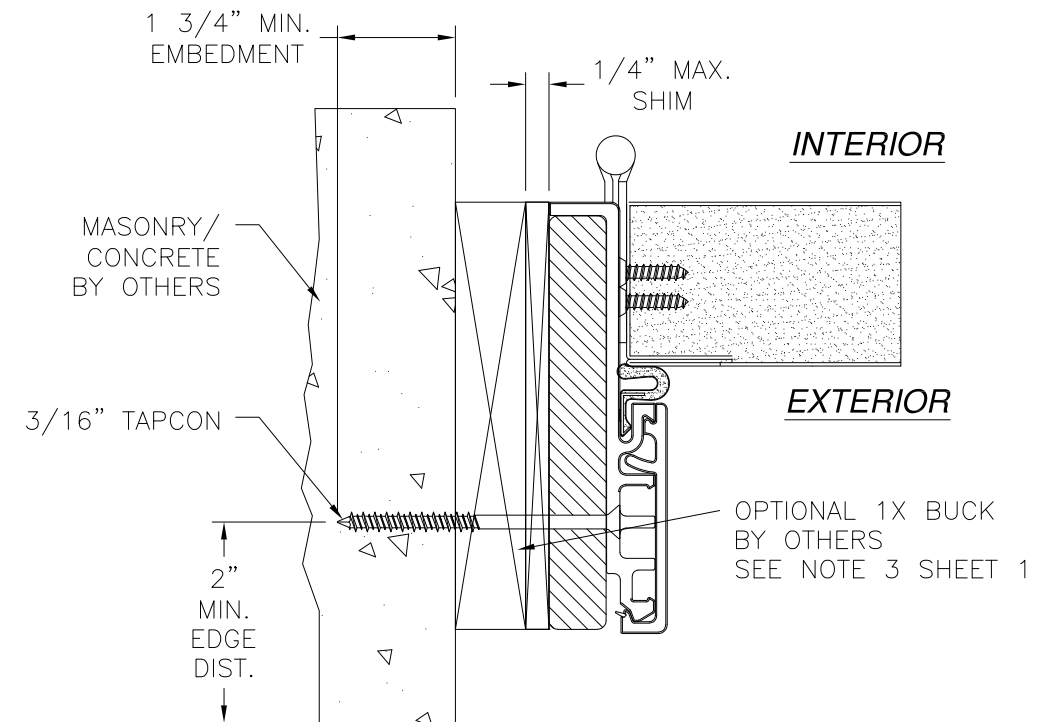


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TRANSOM HEAD SHOWN  
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**HORIZONTAL CROSS SECTION**  
DOOR INSTALLATION CONCRETE/MASONRY

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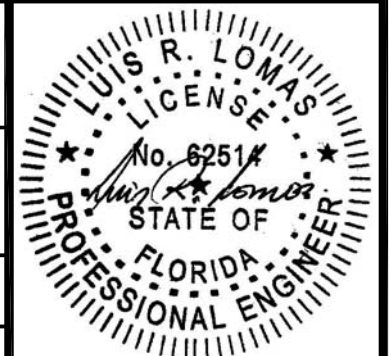
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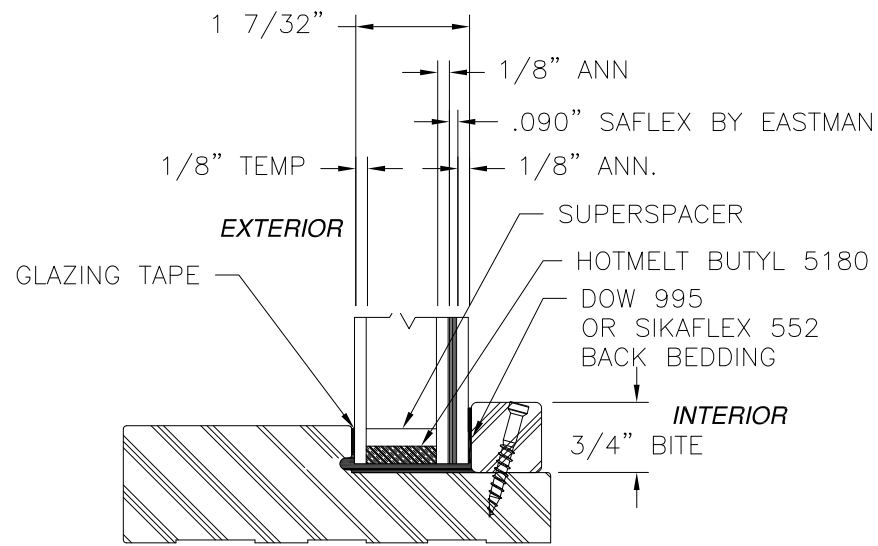
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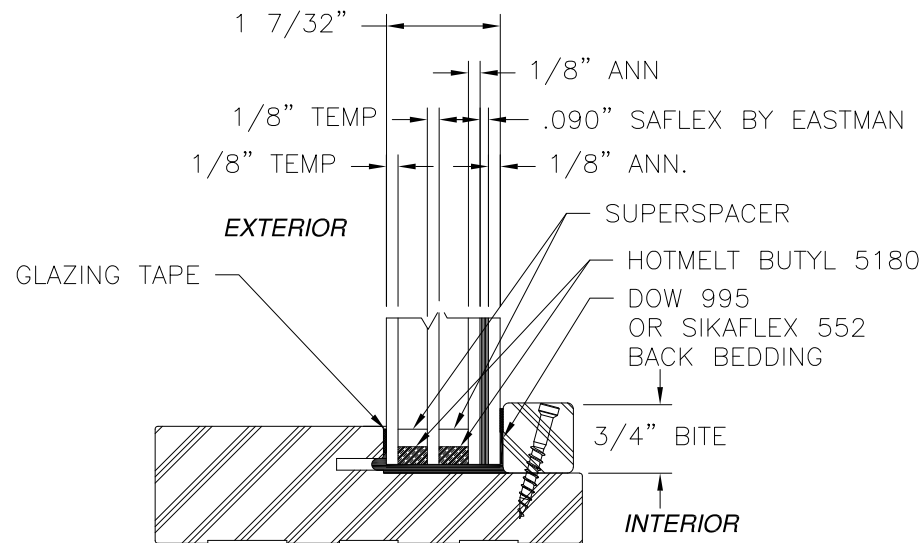
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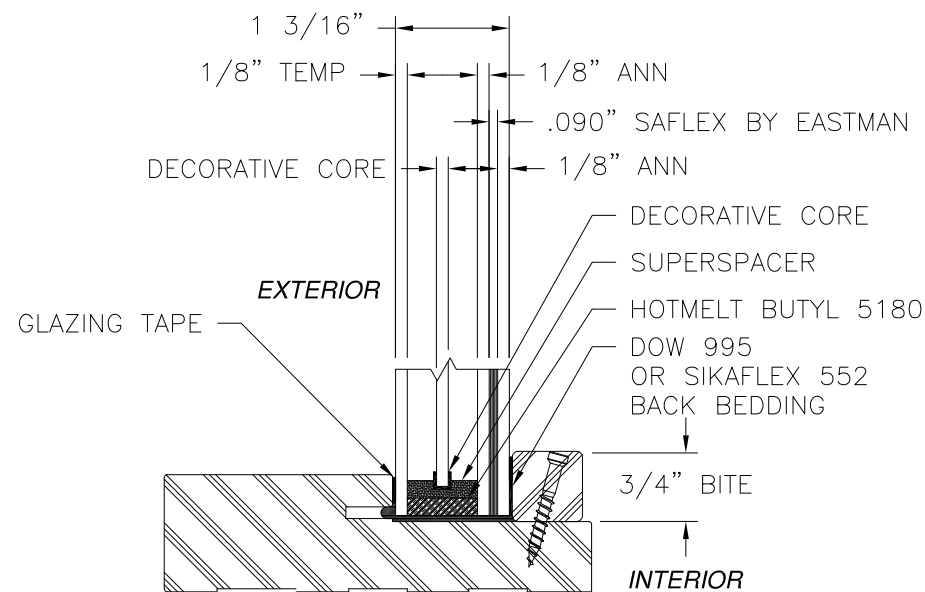
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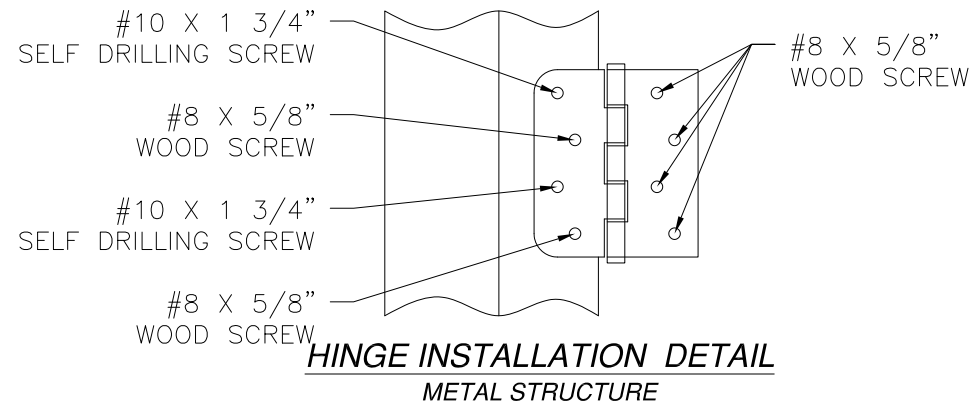
**GLAZING DETAIL A**



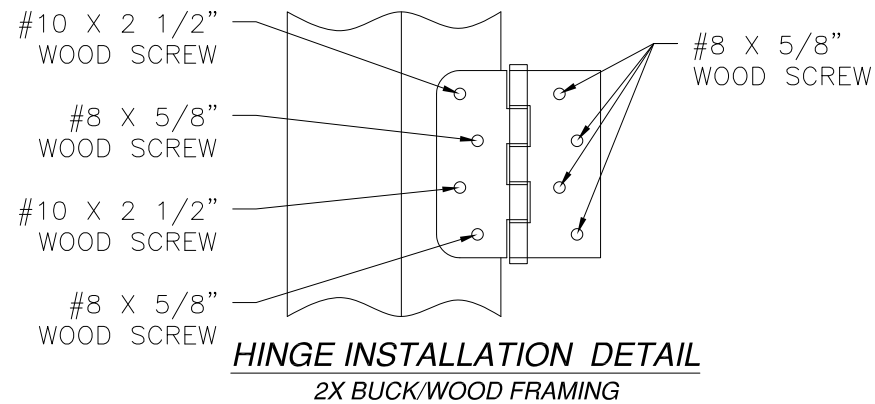
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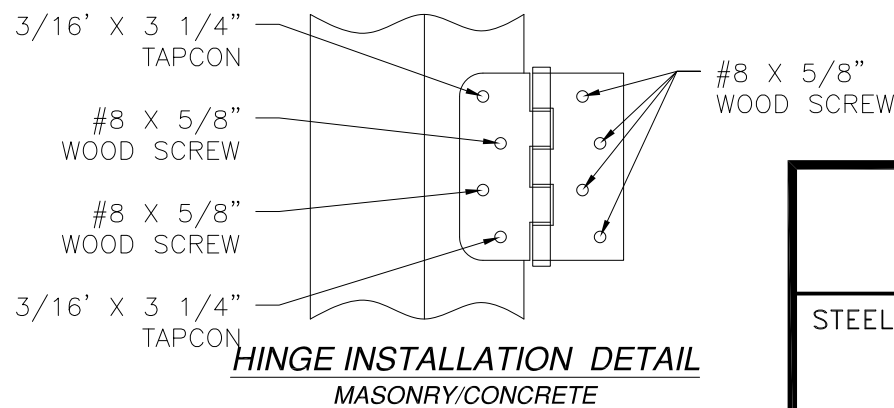
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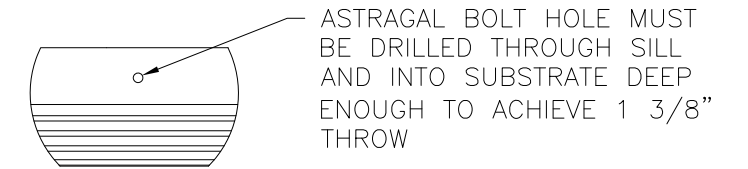
**HINGE INSTALLATION DETAIL  
METAL STRUCTURE**



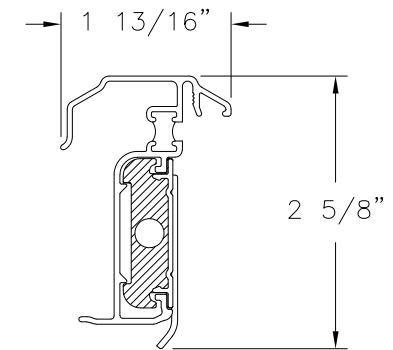
**HINGE INSTALLATION DETAIL  
2X BUCK/WOOD FRAMING**



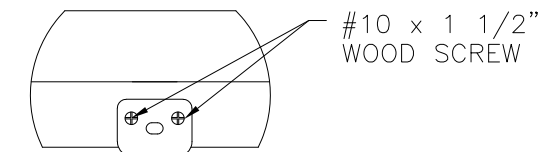
**HINGE INSTALLATION DETAIL  
MASONRY/CONCRETE**



**ASTRAGAL SILL DETAIL**



**HURRICANE ASTRAGAL DETAIL**



**ASTRAGAL HEAD STRIKE DETAIL  
2X BUCK/WOOD FRAMING**

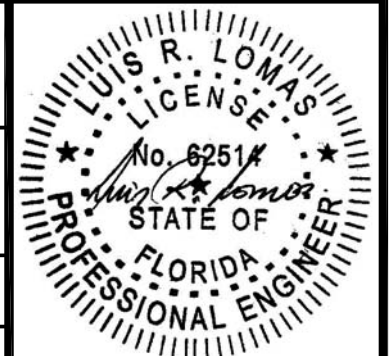
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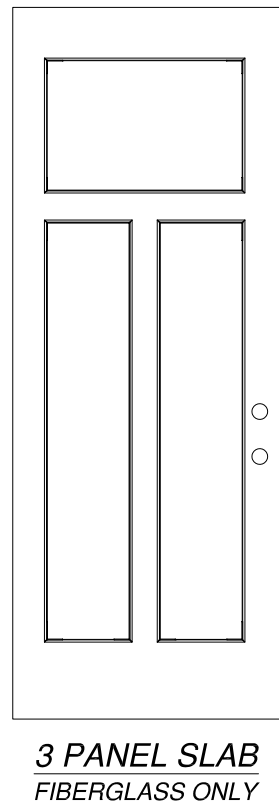
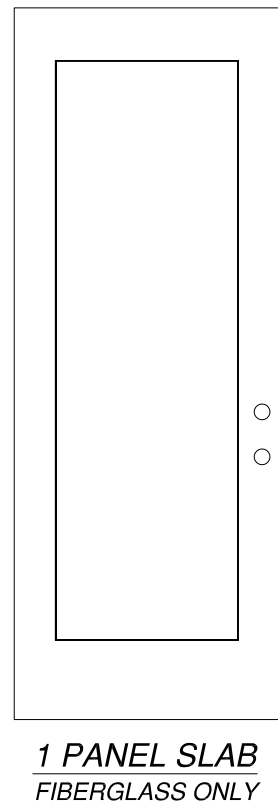
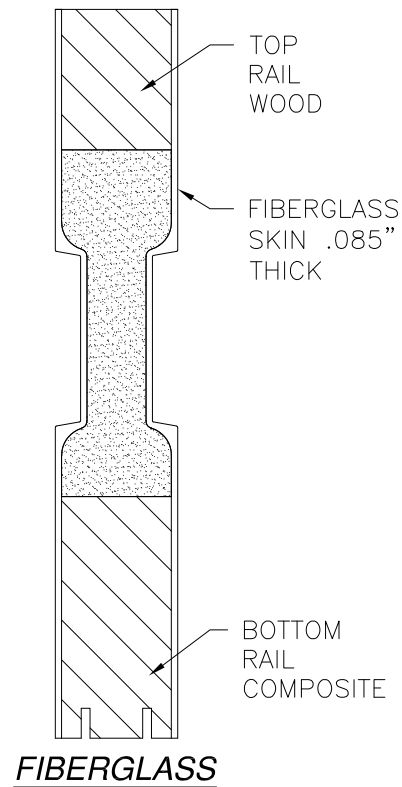
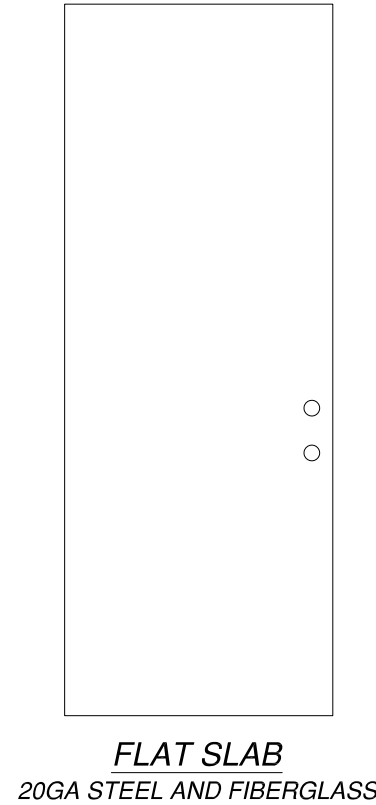
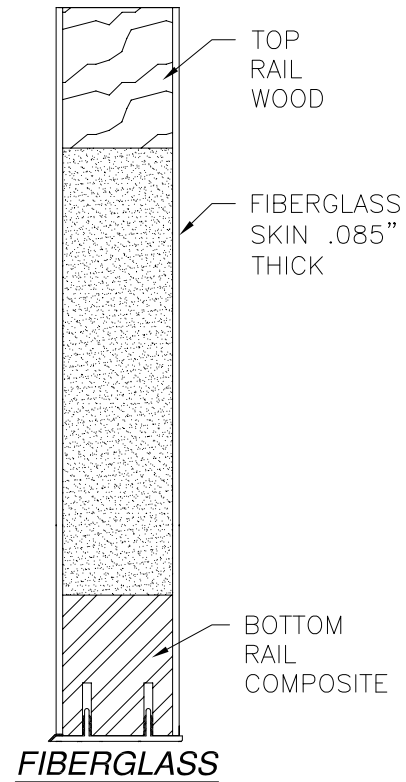
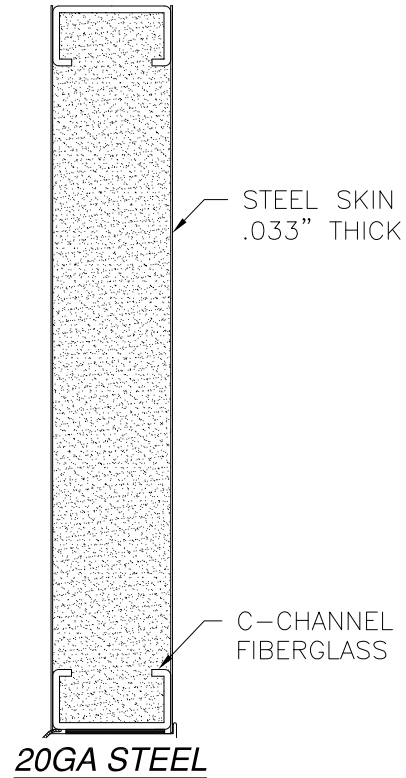
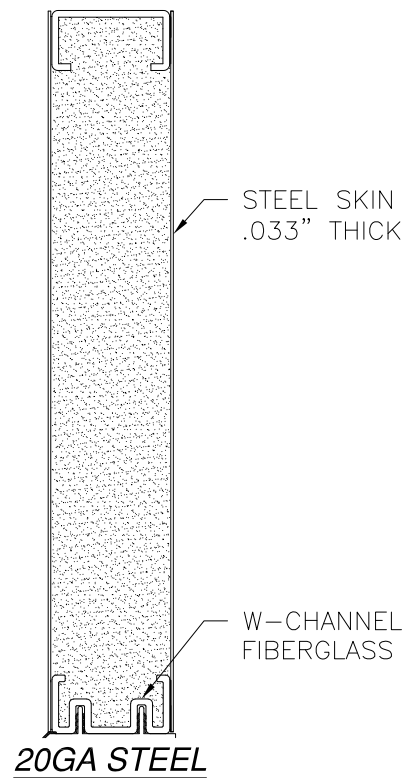
L. ROBERTO LOMAS P.E.  
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434-688-0609 rllomas@rlomaspe.com



Luis R. Lomas P.E.  
FL No.: 62514

# APPROVED SLABS AND CROSS SECTIONS

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED 5180 HOT MELT BUTYL	08/24/2021	R.L.



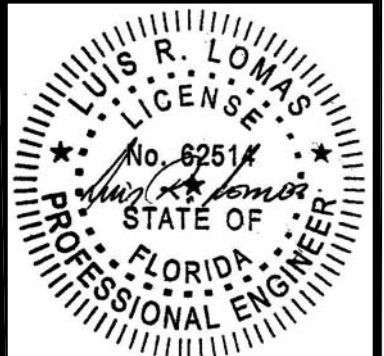
**PROVIA, LLC.**  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
W/TRANSOM - IMPACT  
COMPONENTS, APPROVED SLABS

DRAWN: V.L.	DWG NO. 08-02039	REV H
SCALE NTS	DATE 05/23/13	SHEET 10 OF 12

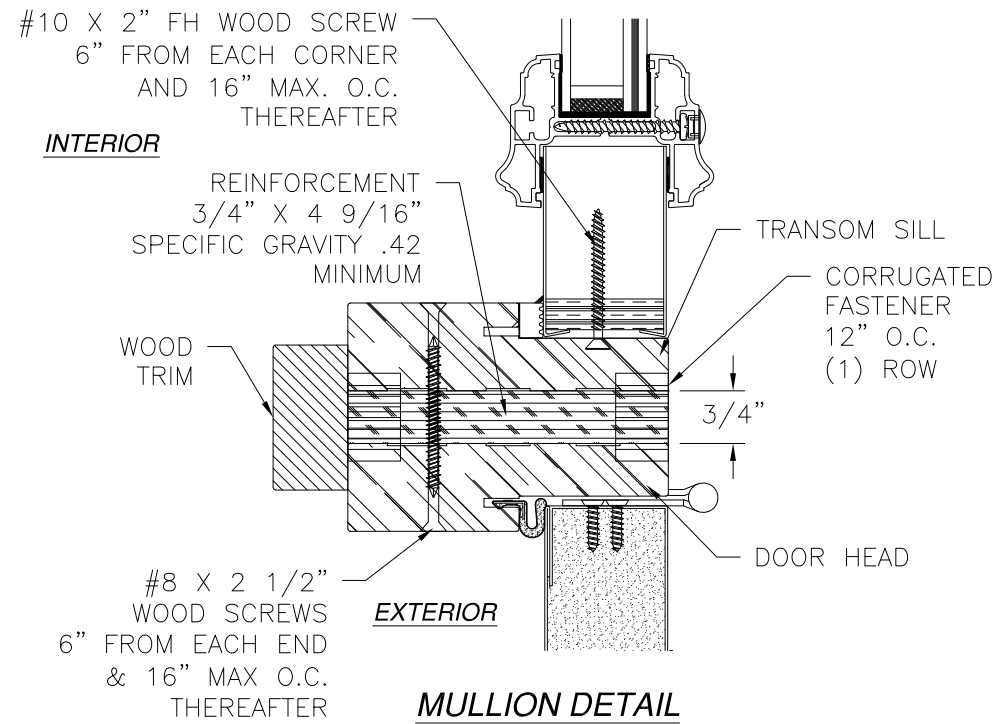
L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 09/27/2021

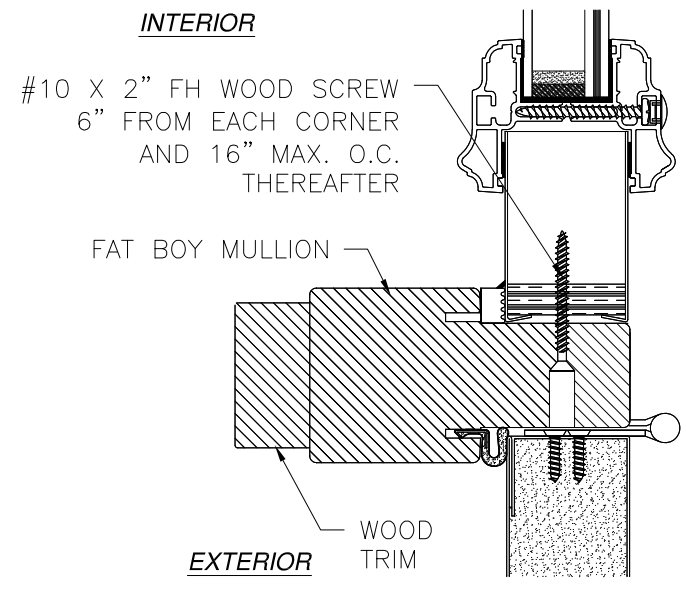


Luis R. Lomas P.E.  
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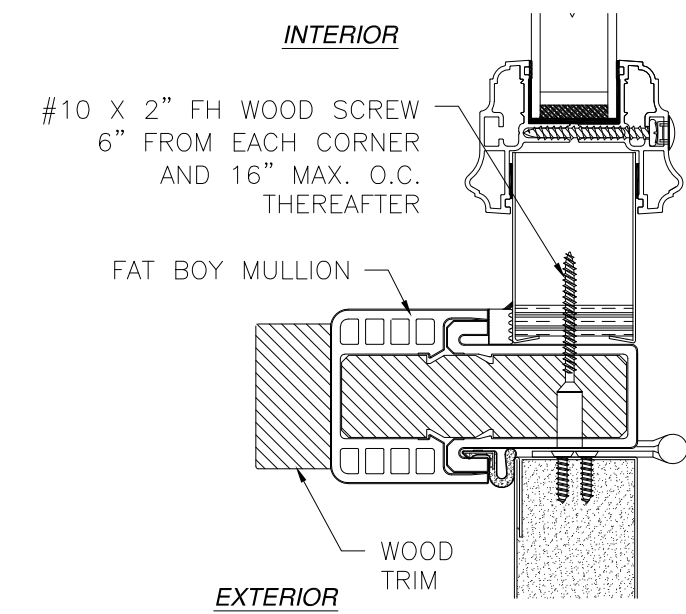
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED 5180 HOT MELT BUTYL	08/24/2021	R.L.



**MULLION DETAIL**  
STANDARD FRAME SHOWN,  
COMPOSITE AND FUSION FRAME SIMILAR



**MULLION DETAIL**  
WITH FAT BOY MULLION



**MULLION DETAIL**  
WITH HYBRID FAT BOY MULLION

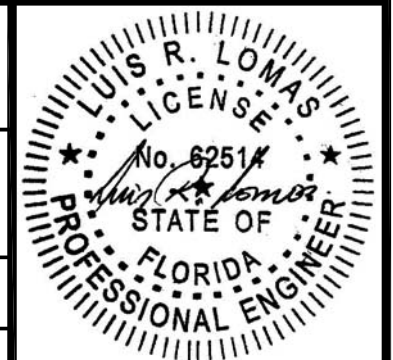
SIGNED: 09/27/2021

**PROVIA, LLC.**  
2150 STATE ROUTE 39 WEST  
SUGARCREEK, OH 44681

STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
W/TRANSOM - IMPACT  
MULLION DETAILS

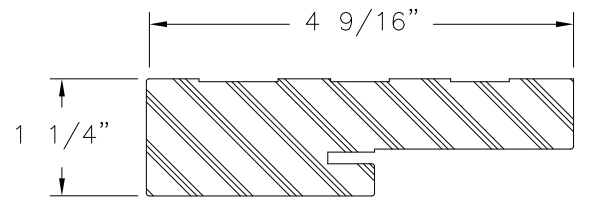
DRAWN: V.L.	DWG NO. 08-02039	REV H
SCALE NTS	DATE 05/23/13	SHEET 11 OF 12

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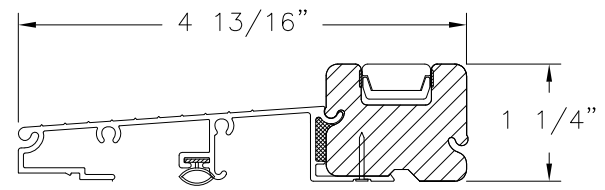


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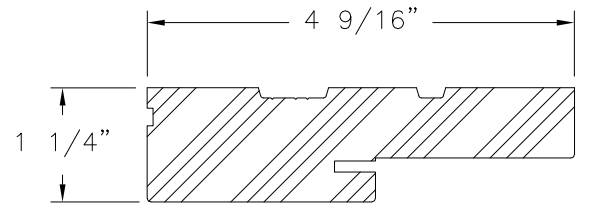
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED 5180 HOT MELT BUTYL	08/24/2021	R.L.



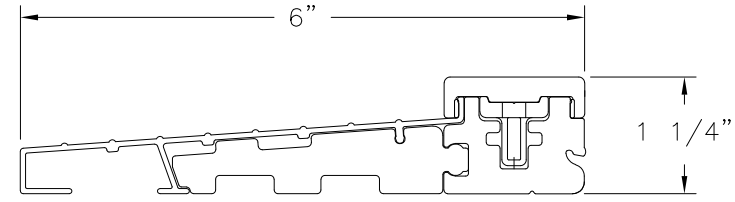
**COMPOSITE FRAME PROFILE**



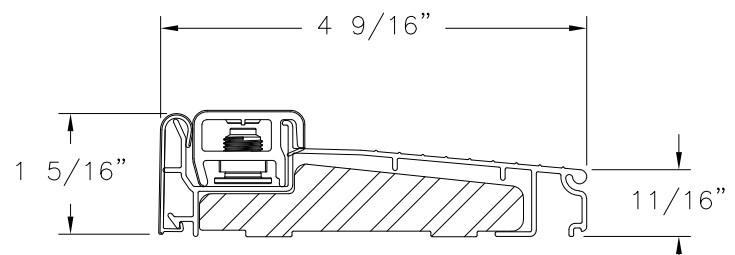
**SAHARA INSWING THRESHOLD**



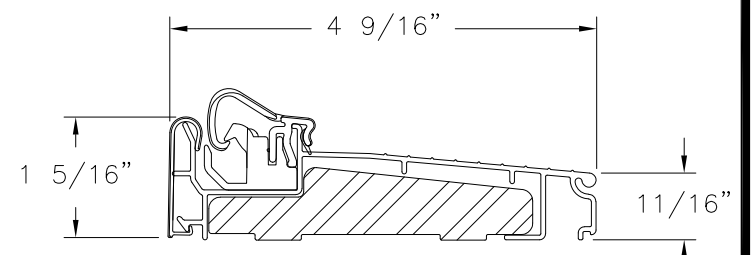
**WOOD FRAME PROFILE**



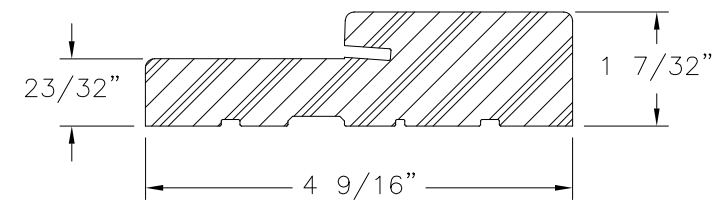
**STANDARD INSWING THRESHOLD**



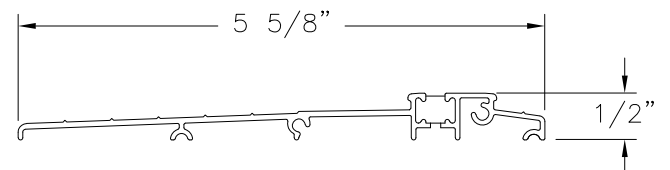
**INSWING SILL ZAIL4565**



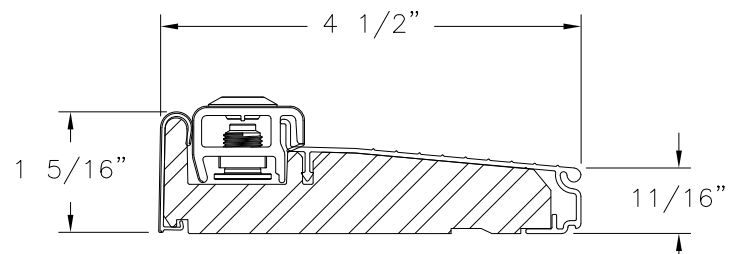
**INSWING SILL ZAACL4565**



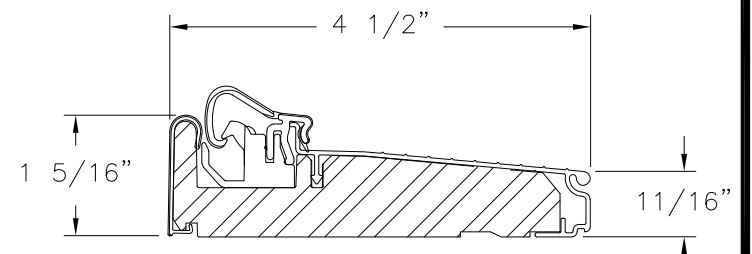
**FRAMESAVER COMPOSITE**



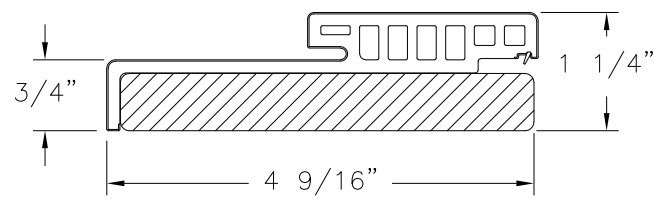
**ADA THRESHOLD**



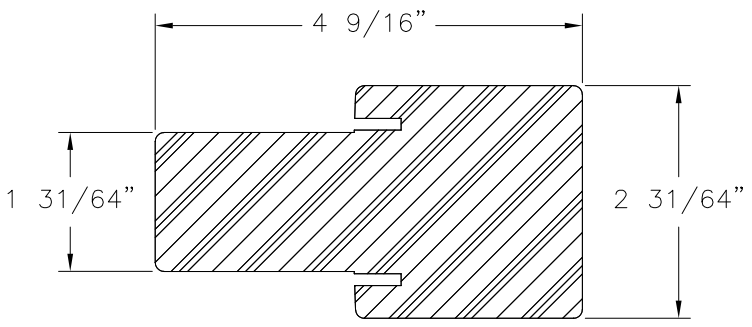
**INSWING SILL ZAI4565F**



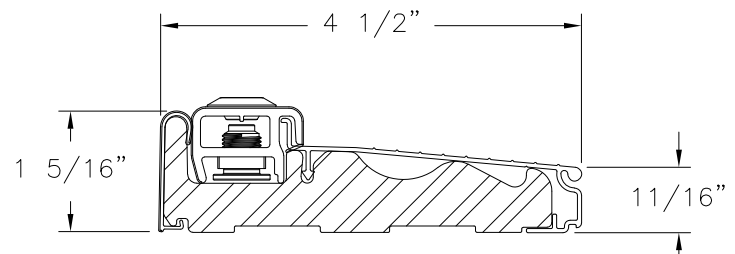
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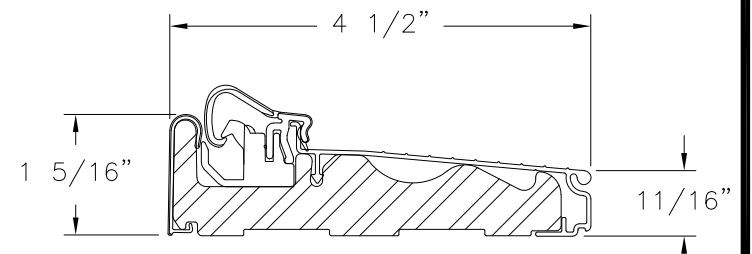
**HYBRID HEAD WOOD/COMPOSITE**



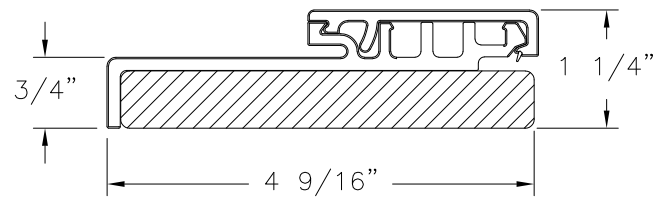
**FAT BOY MULLION COMPOSITE**



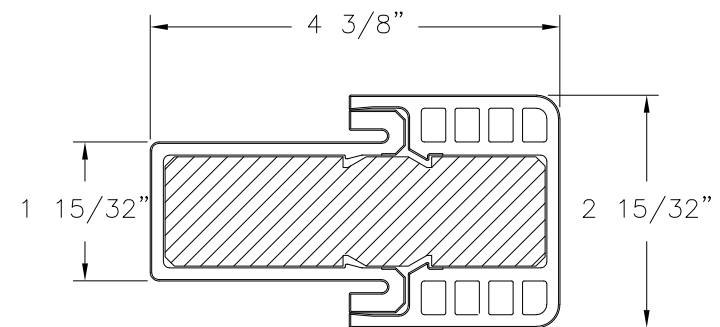
**INSWING SILL ZAILH4565**



**INSWING SILL ZAACLH4565**



**HYBRID JAMB WOOD/COMPOSITE**



**HYBRID FAT BOY MULLION COMPOSITE**

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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR  
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COMPONENTS

DRAWN: V.L.	DWG NO. 08-02039	REV H
SCALE NTS	DATE 05/23/13	SHEET 12 OF 12

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