

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/12/2021	R.L.

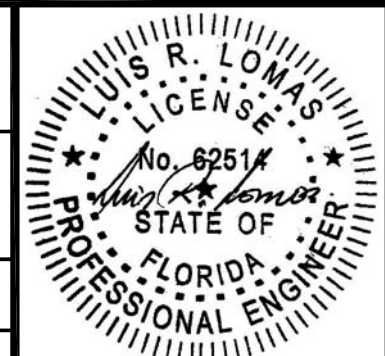
NOTES:

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)
6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 9 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
8. 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".
9. 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.
10. 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.
11. 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.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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 – GROUT FILLED 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

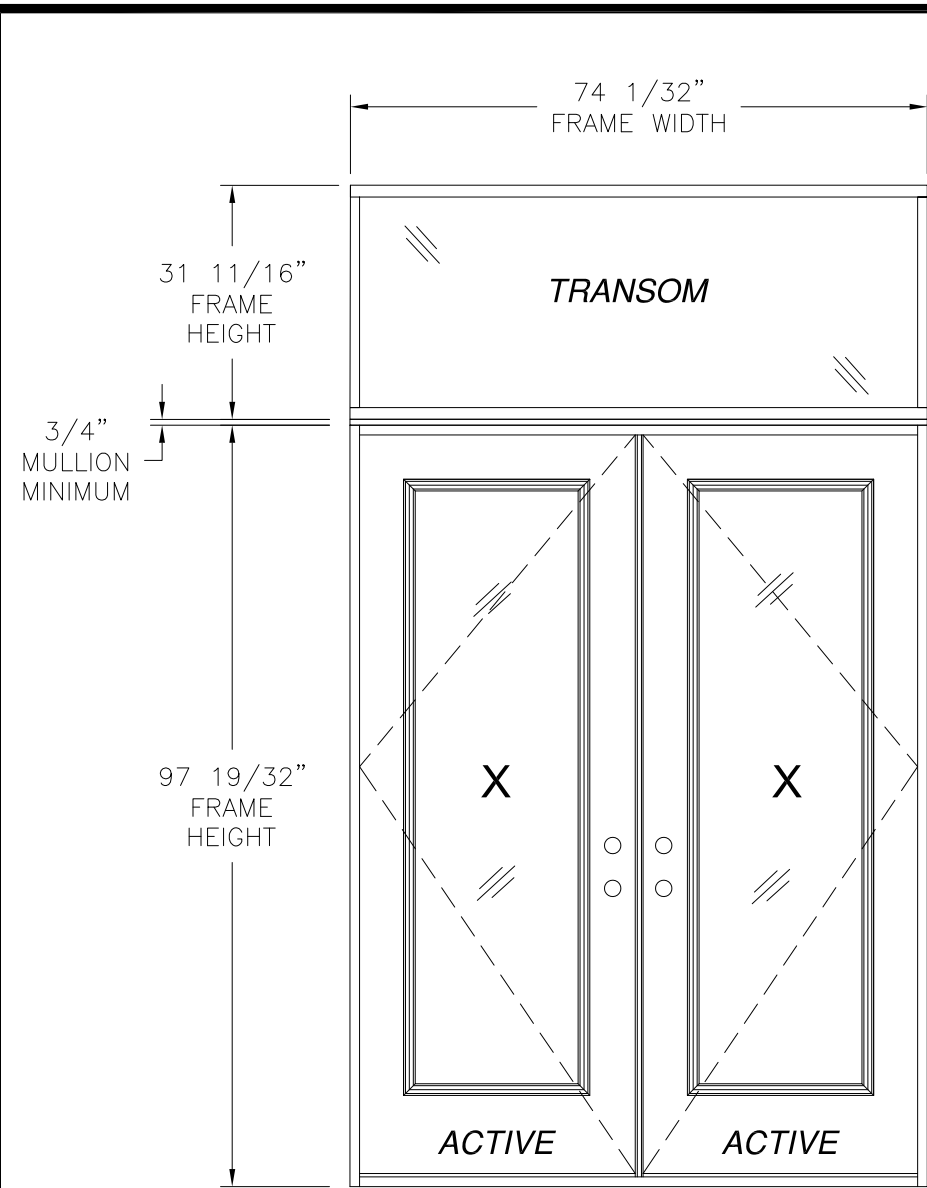
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PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL INSWING GLAZED DOUBLE DOOR W/TRANSOM – IMPACT NOTES		
DRAWN: J.L.	DWG NO. 08-01967	REV H
SCALE NTS	DATE 04/23/13	SHEET 1 OF 13
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

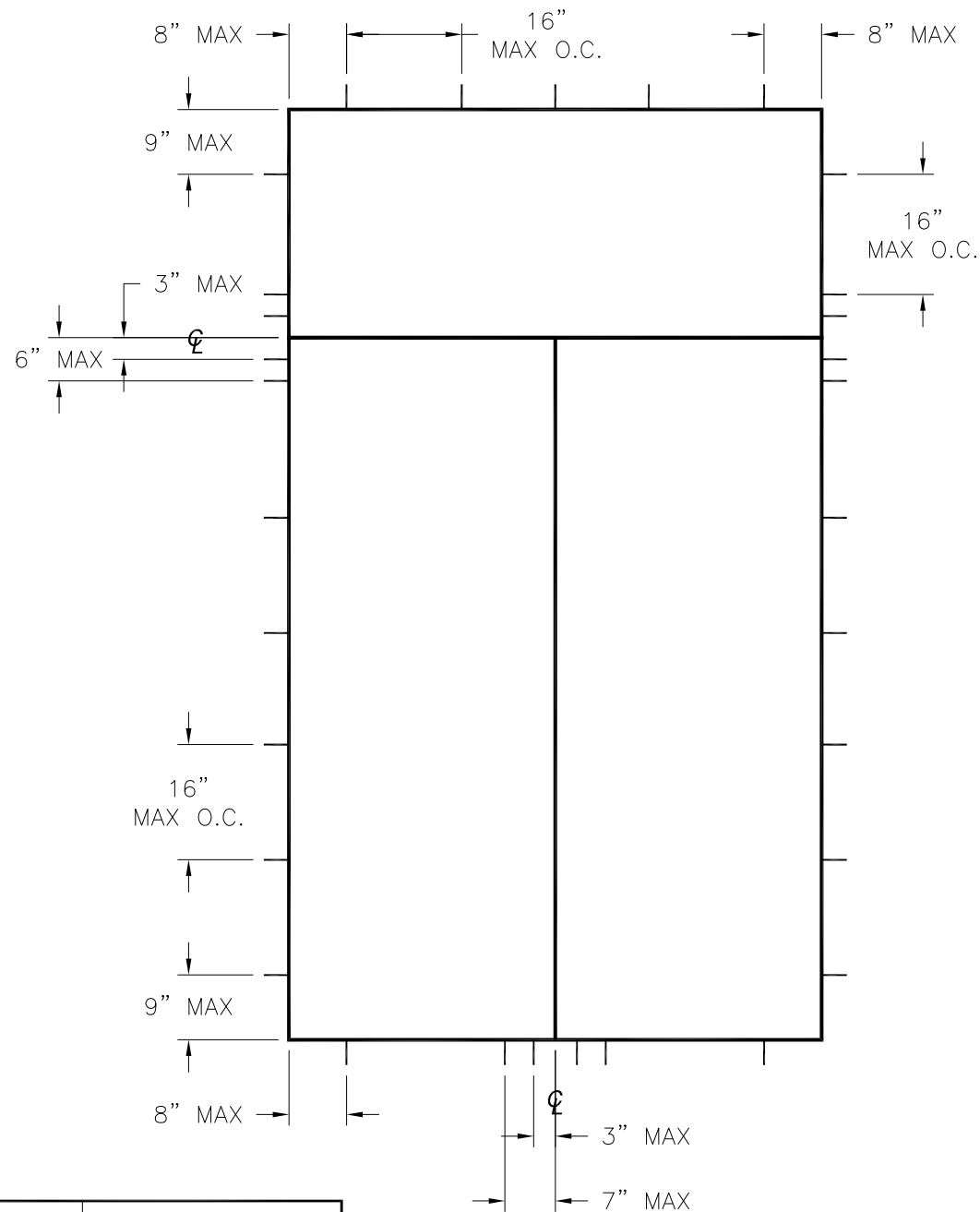
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**DOUBLE DOOR W/ TRANSOM**  
EXTERIOR VIEW



**ANCHOR LAYOUT**

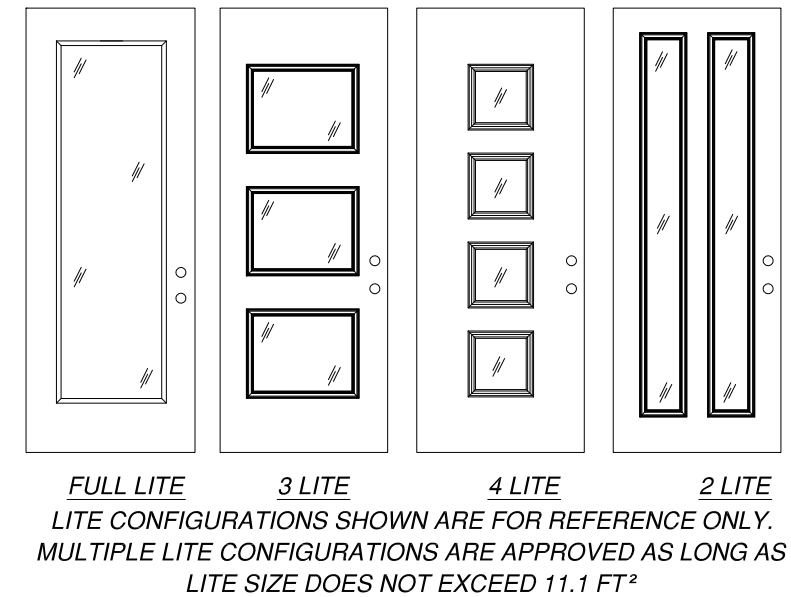
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

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>

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**APPROVED LITE CONFIGURATIONS**



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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W/TRANSOM – IMPACT  
ELEVATION AND ANCHORING LAYOUT

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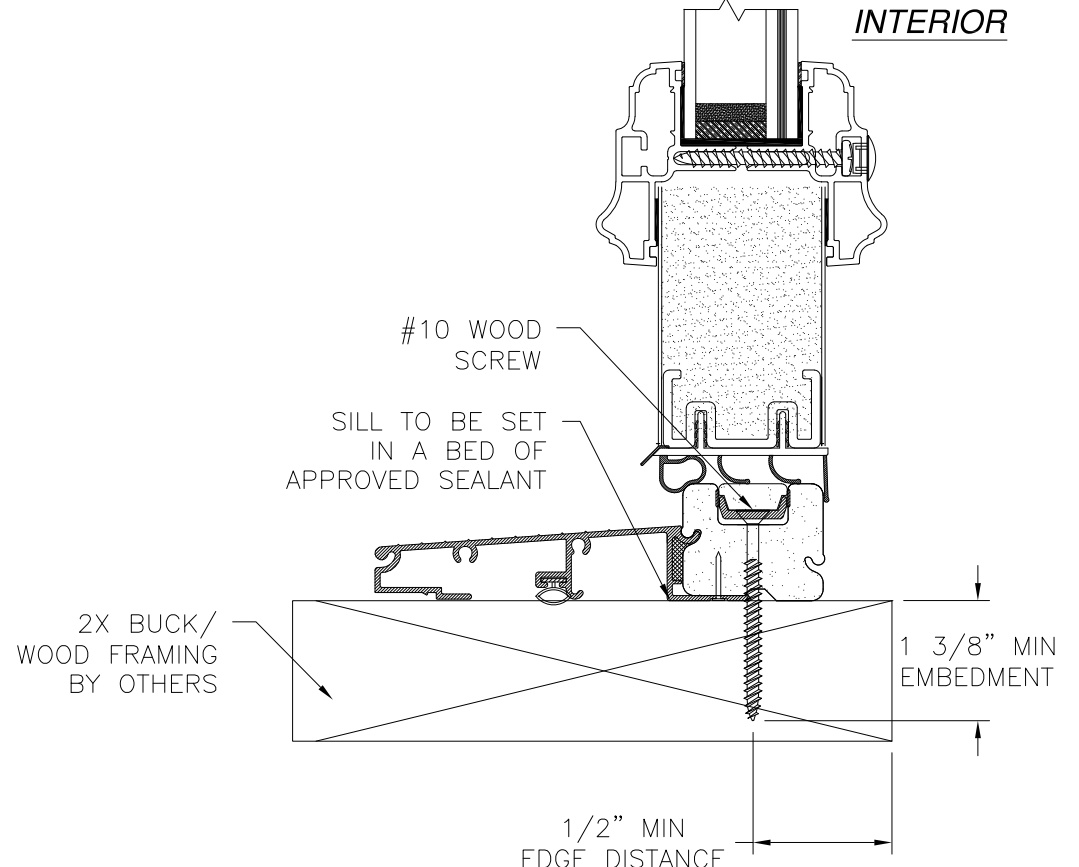
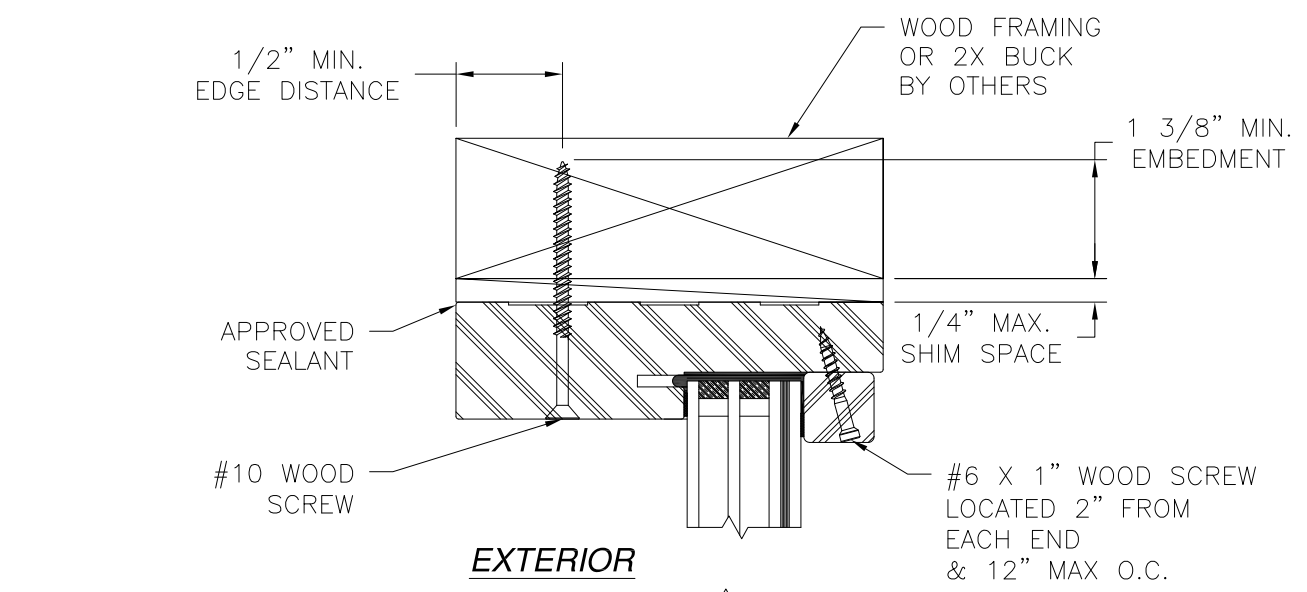
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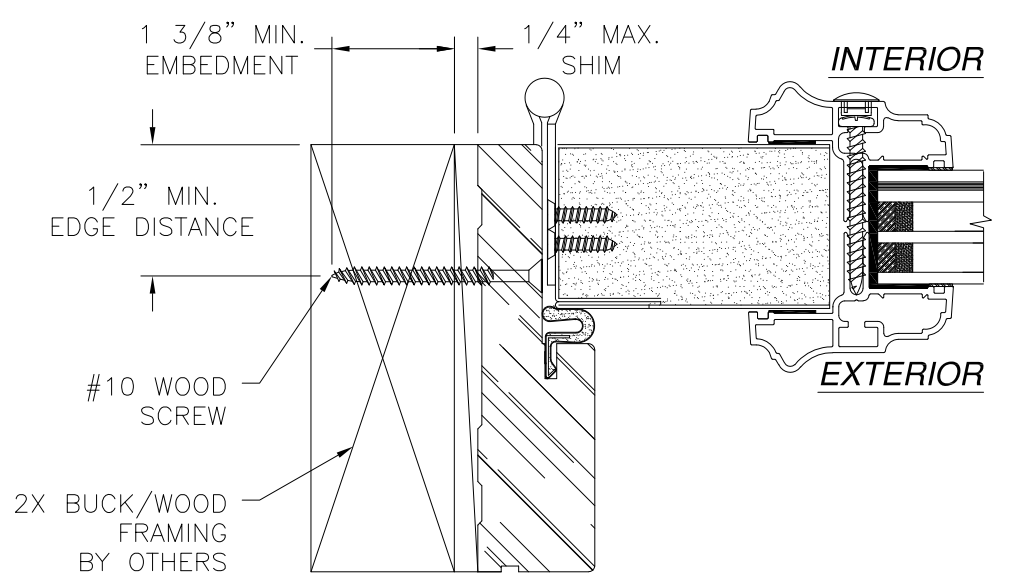


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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



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

- 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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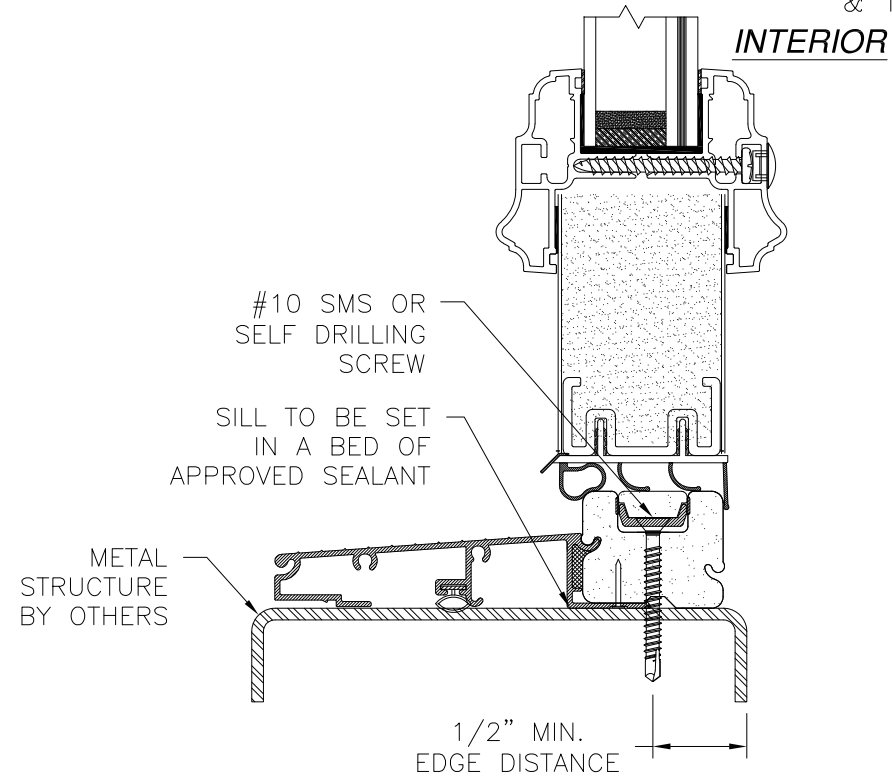
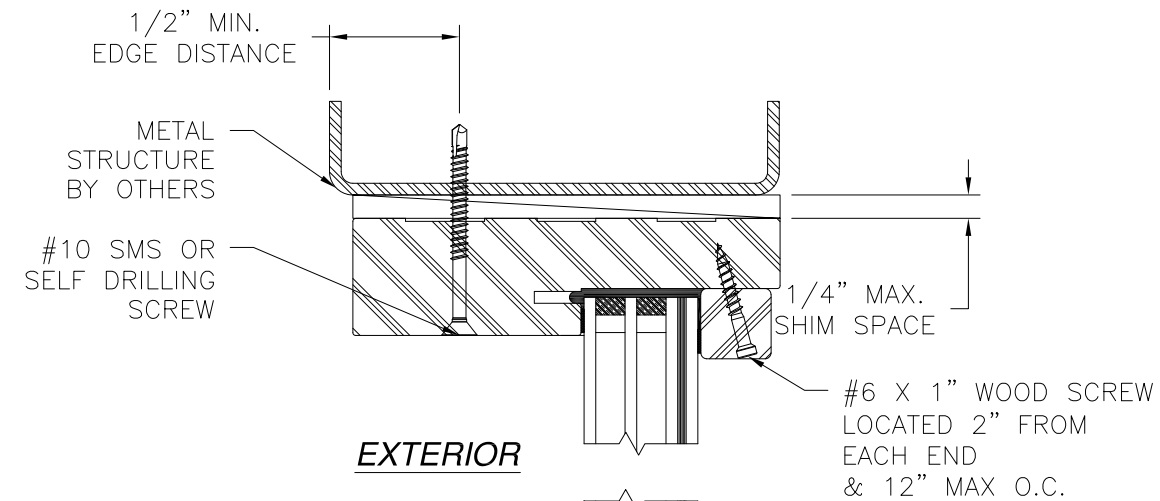
STEEL INSWING GLAZED DOUBLE DOOR  
 W/TRANSOM - IMPACT  
 INSTALLATION DETAILS

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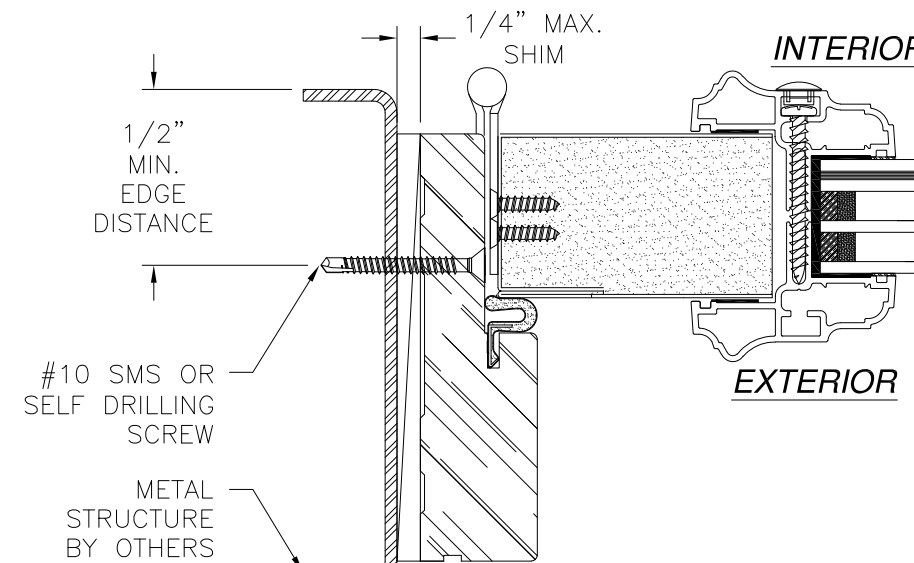
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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION METAL STRUCTURE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

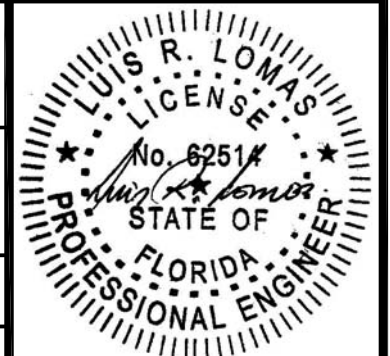


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 DOOR INSTALLATION METAL STRUCTURE

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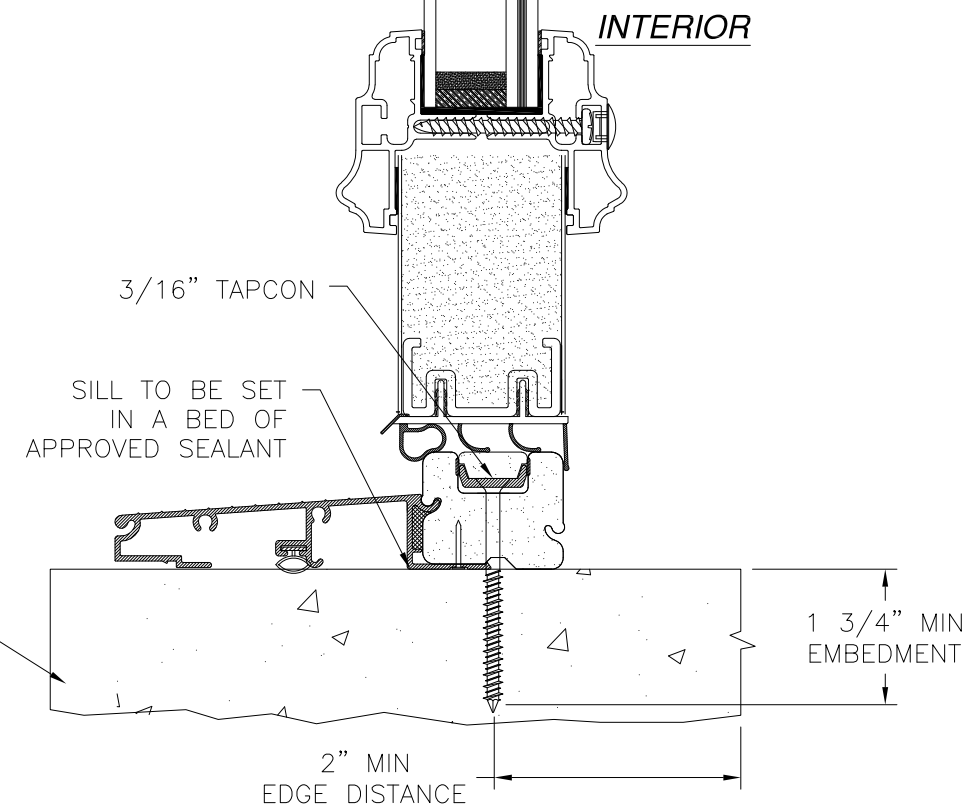
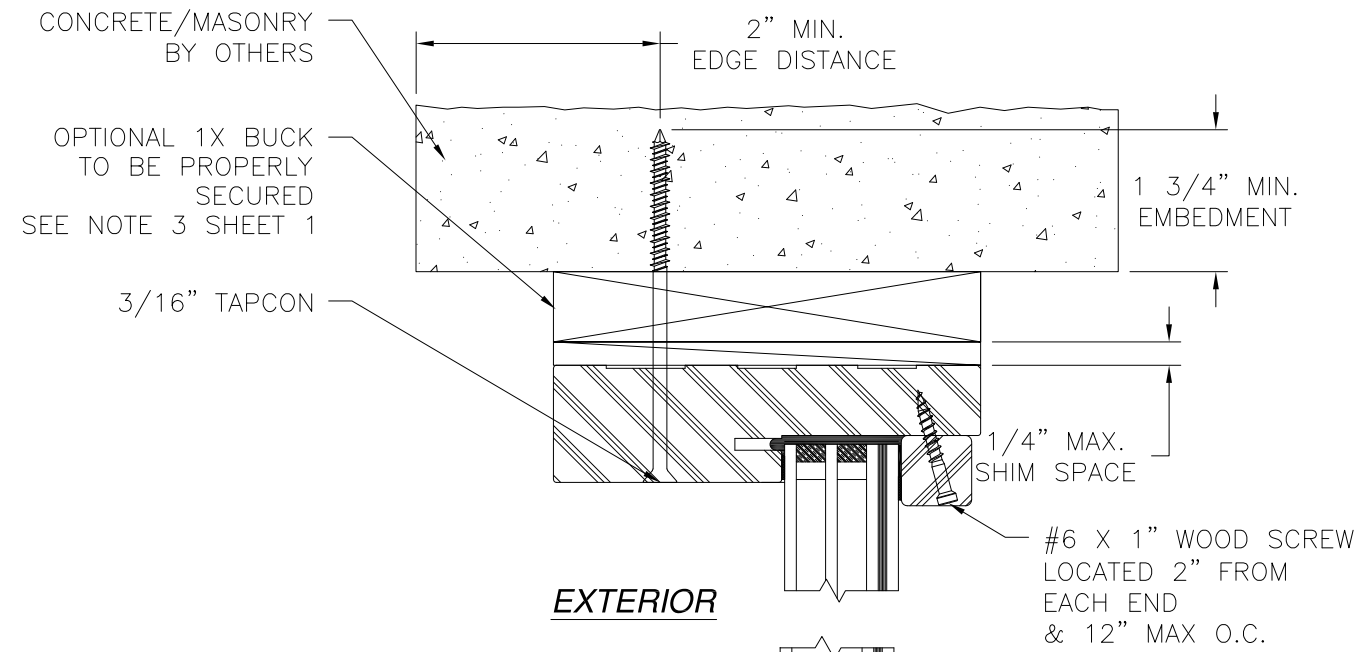
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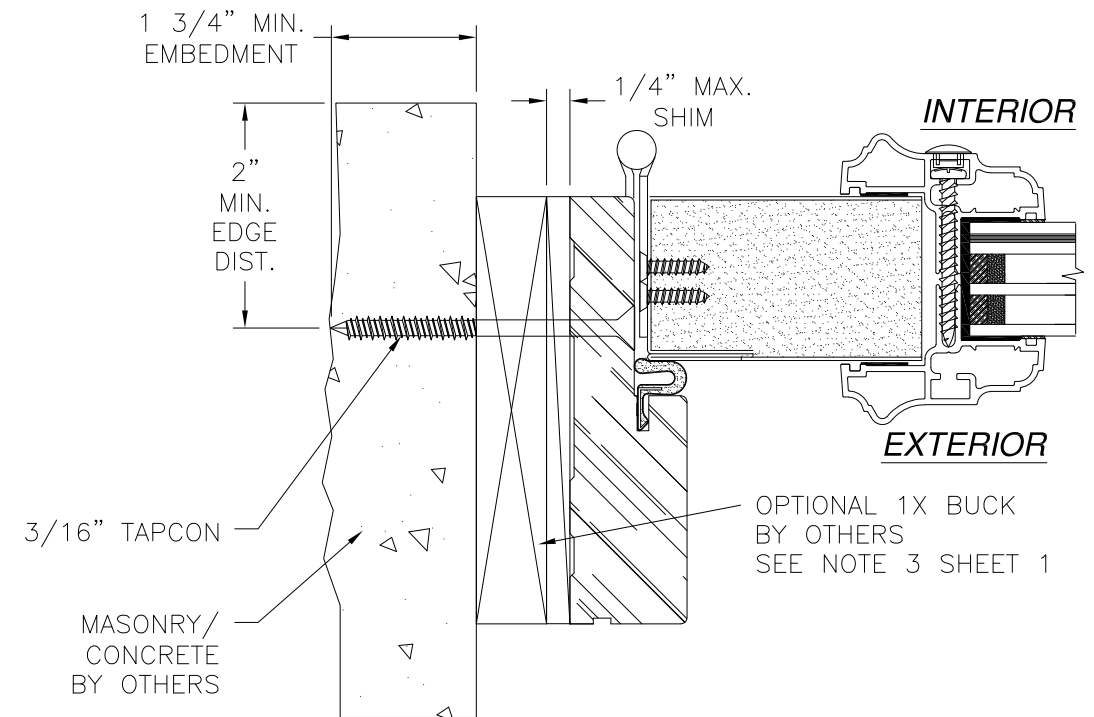


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**VERTICAL CROSS SECTION**  
 DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

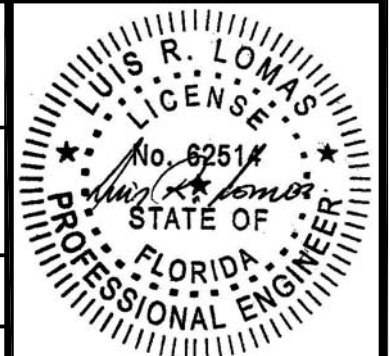


**HORIZONTAL CROSS SECTION**  
 DOOR INSTALLATION CONCRETE/MASONRY

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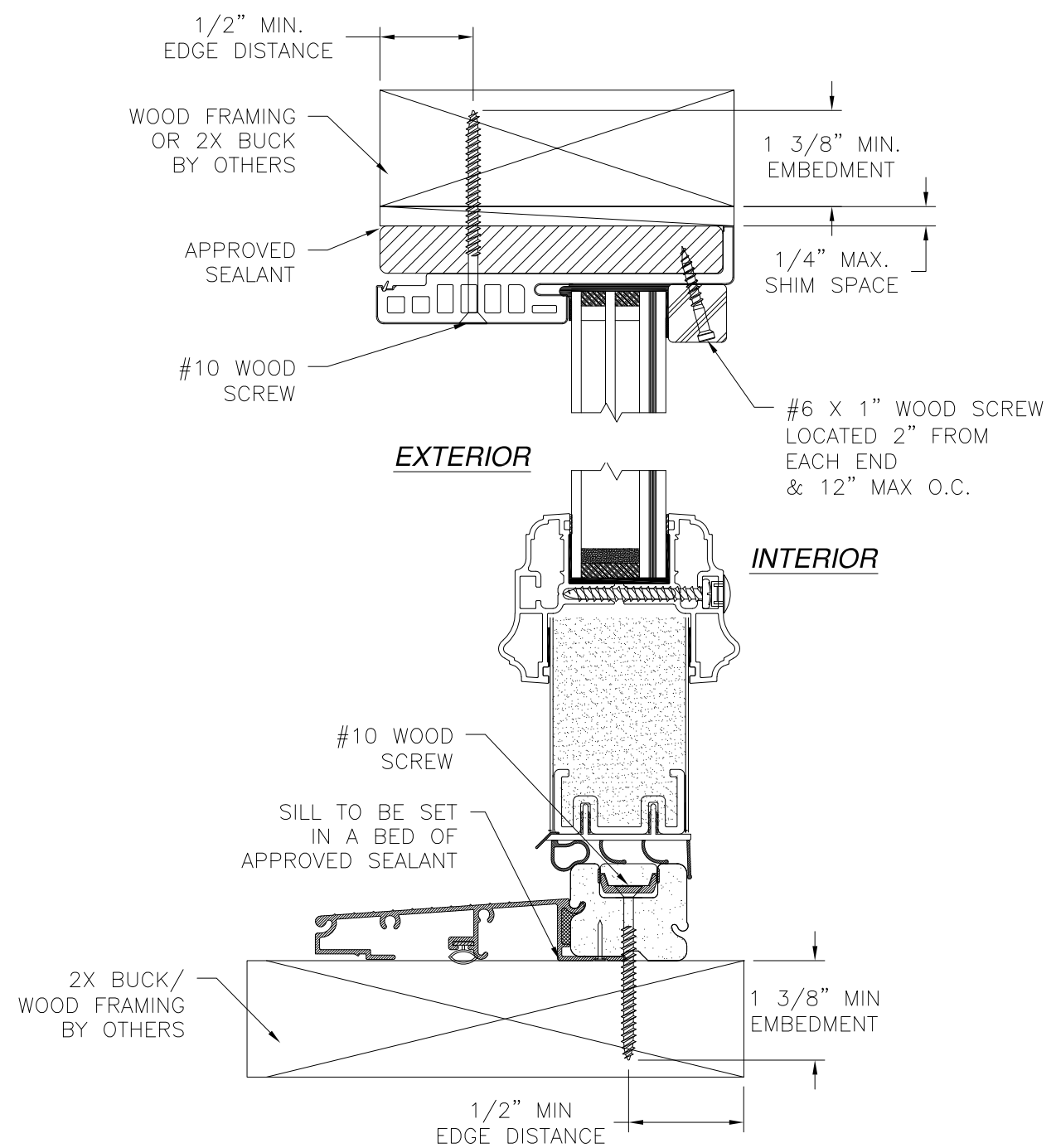
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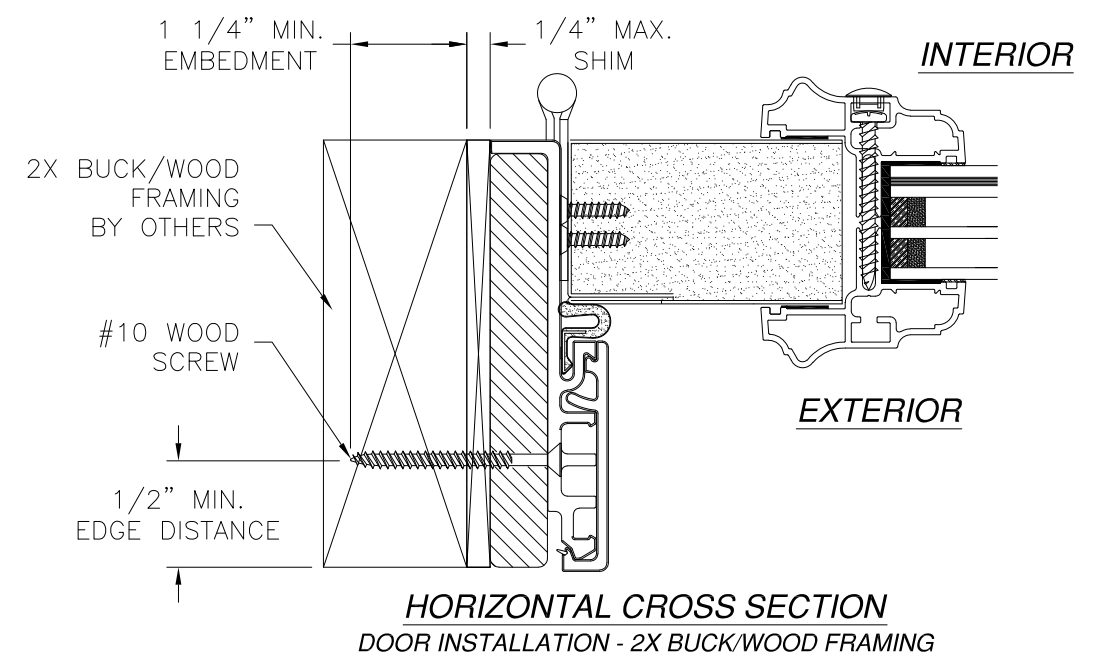
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**VERTICAL CROSS SECTION**  
**DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING**  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR

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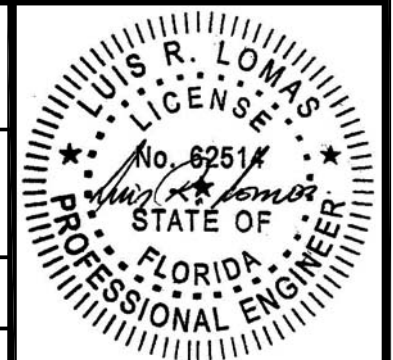
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STEEL INSWING GLAZED DOUBLE DOOR  
 W/TRANSOM - IMPACT  
 INSTALLATION DETAILS W/FUSION FRAME

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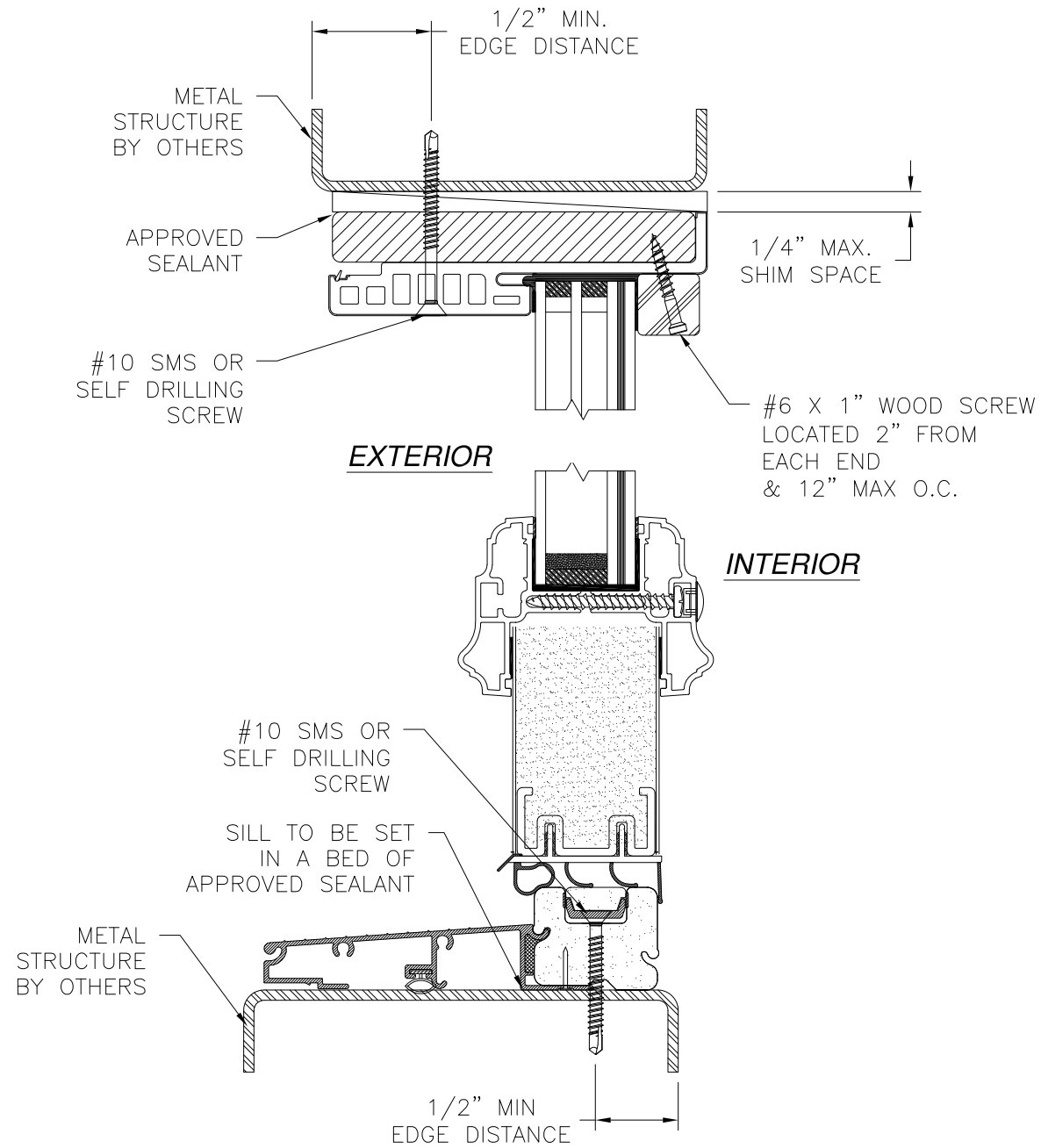
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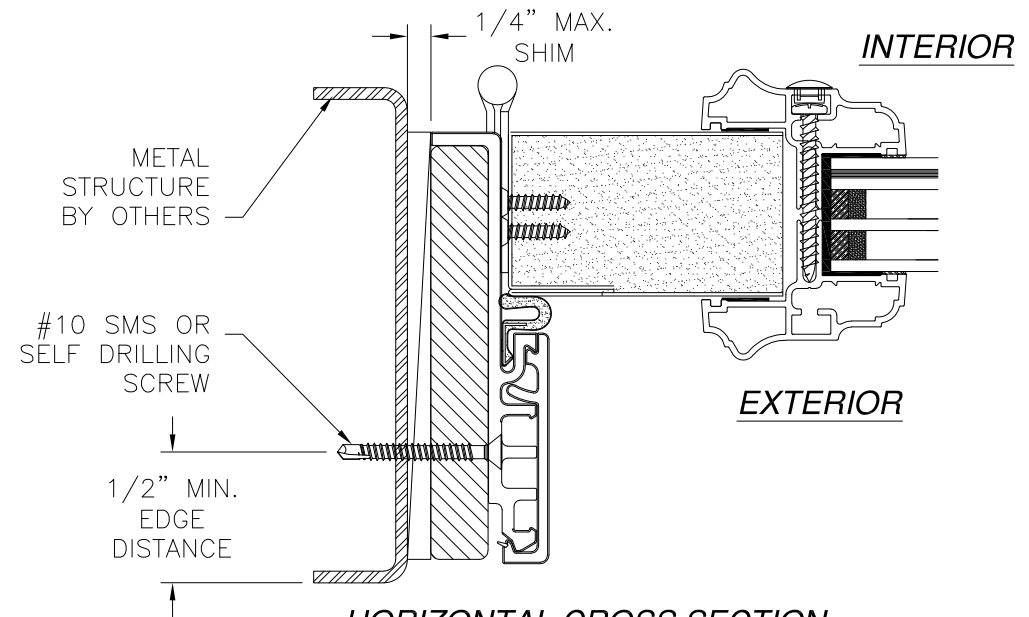


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**VERTICAL CROSS SECTION**  
**DOOR AND TRANSOM INSTALLATION - METAL STRUCTURE**  
 TRANSOM HEAD SHOWN  
 TRANSOM JAMB SIMILAR



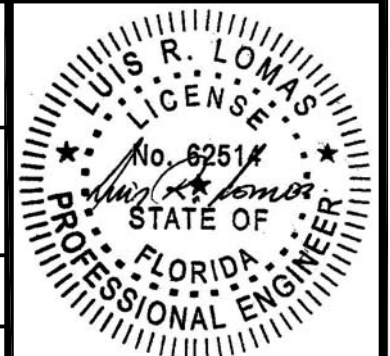
**HORIZONTAL CROSS SECTION**  
**DOOR INSTALLATION - METAL STRUCTURE**

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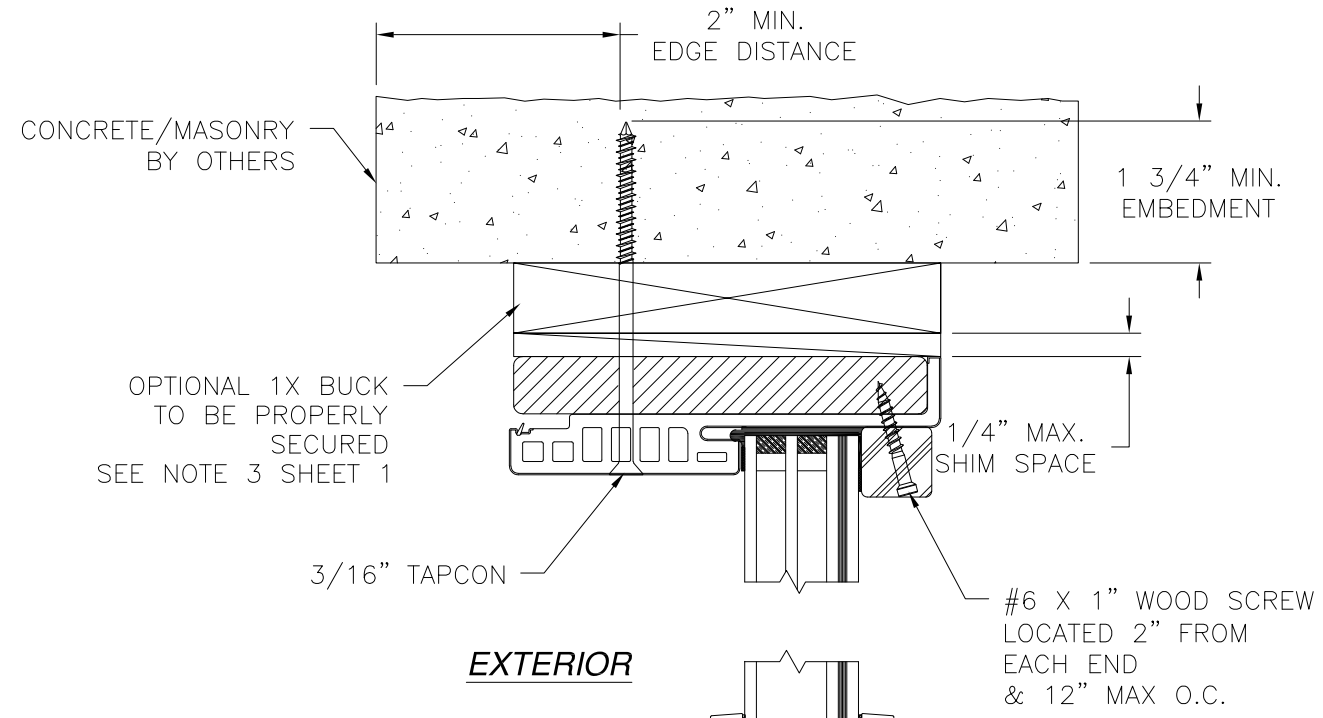
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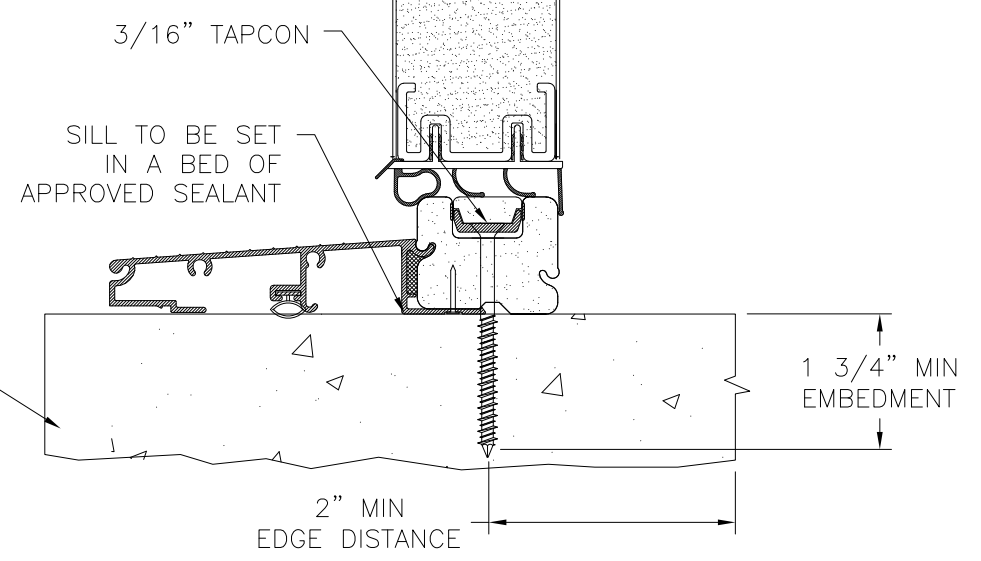
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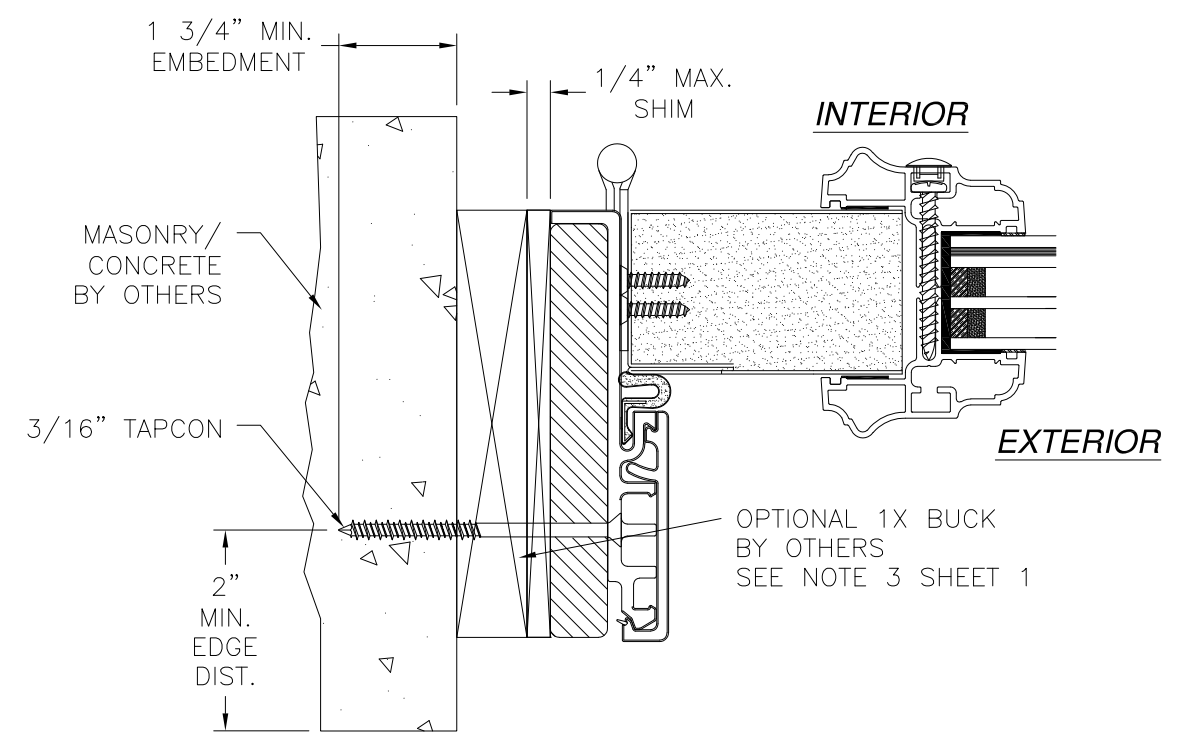


**EXTERIOR**

**INTERIOR**



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



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

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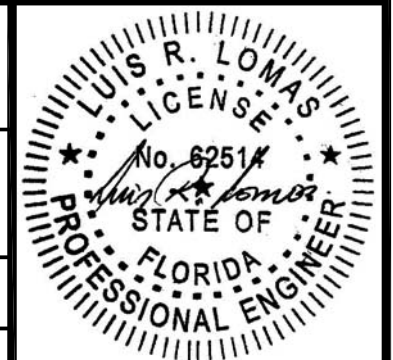
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 W/TRANSOM - IMPACT  
 INSTALLATION DETAILS W/FUSION FRAME

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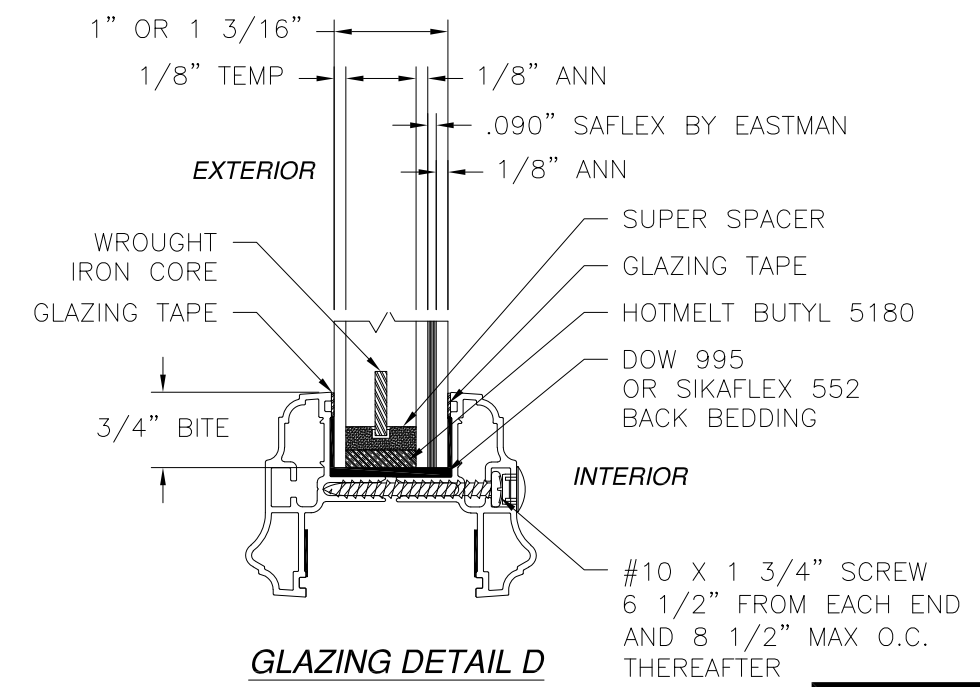
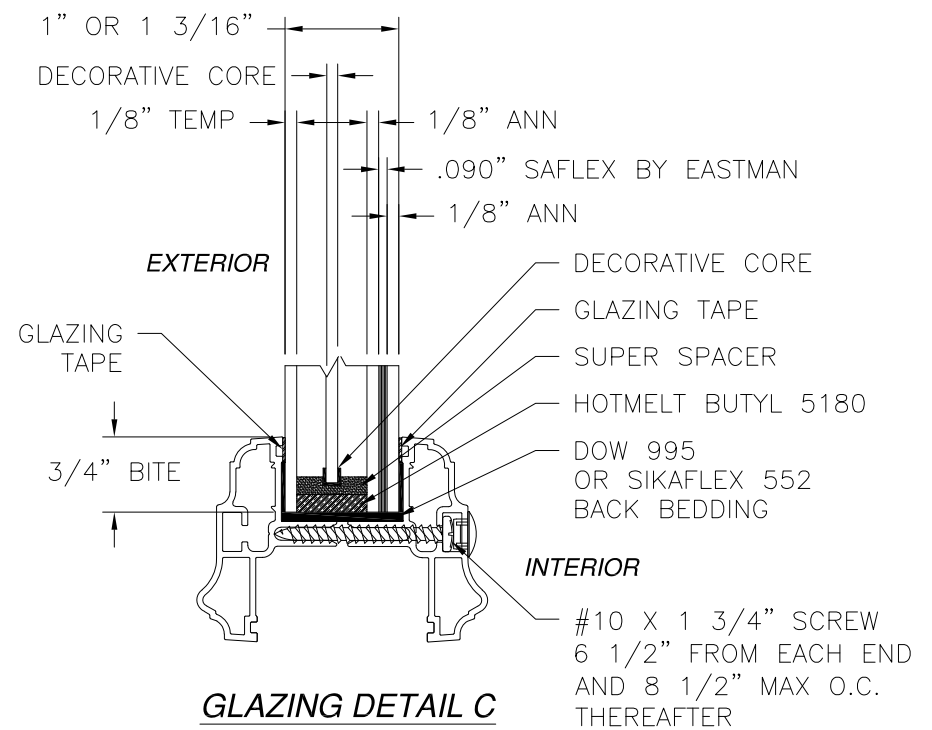
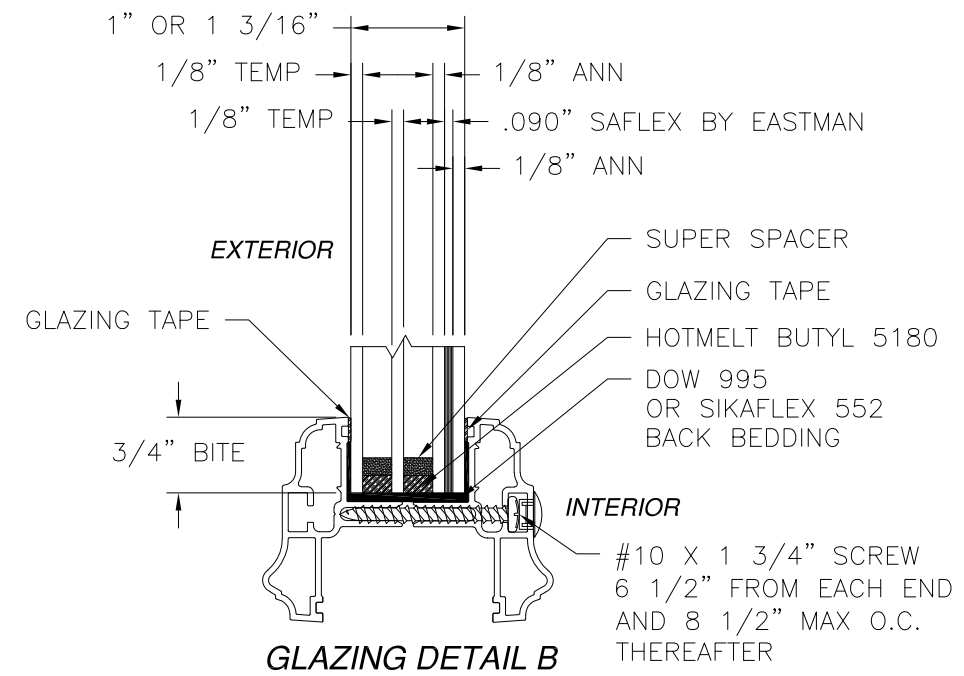
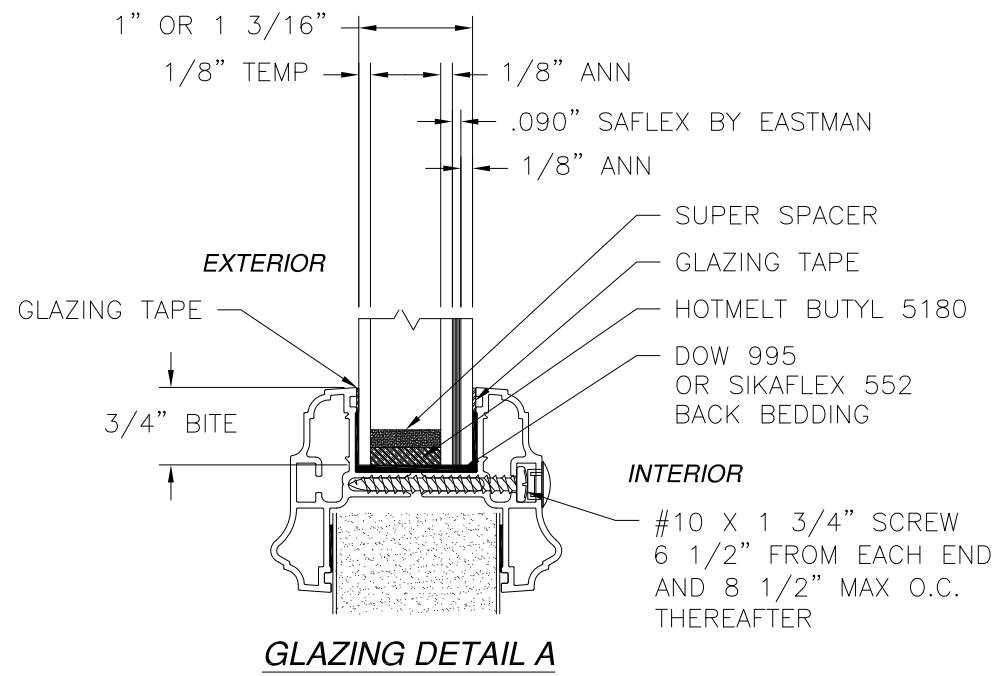
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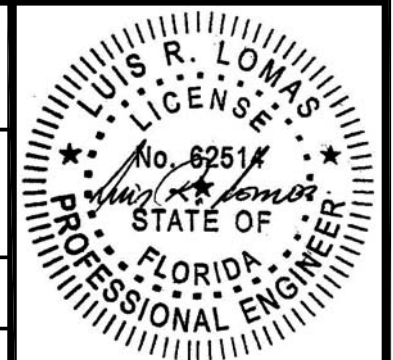
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GLAZING DETAILS

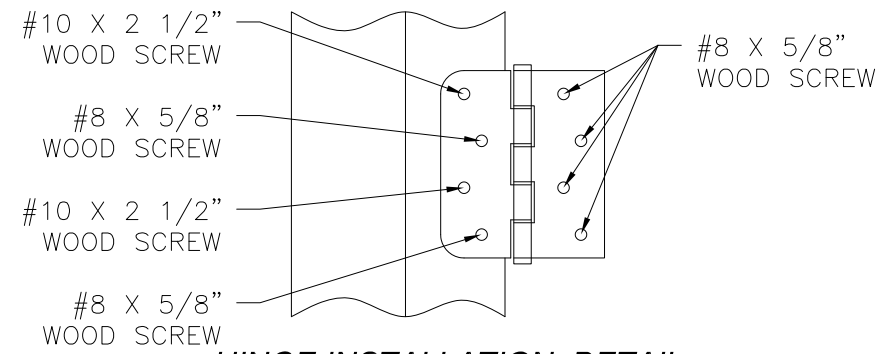
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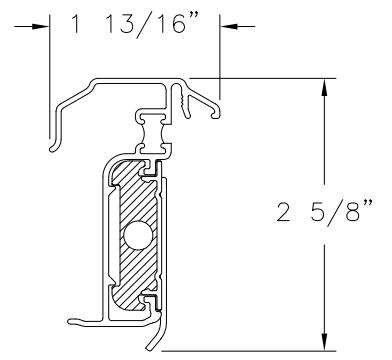


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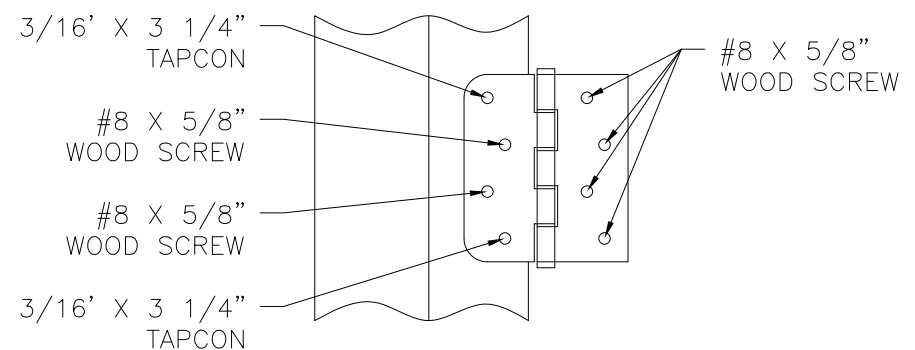
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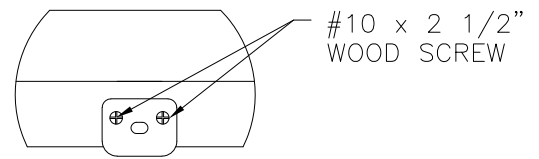
**HINGE INSTALLATION DETAIL**  
2X BUCK/WOOD FRAMING



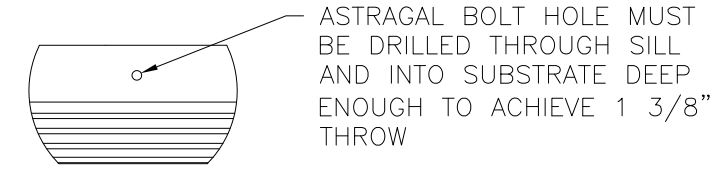
**HURRICANE ASTRAGAL DETAIL**



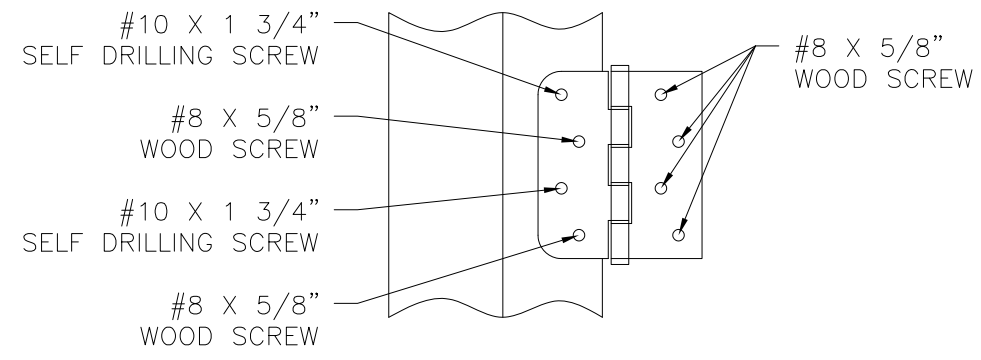
**HINGE INSTALLATION DETAIL**  
MASONRY/CONCRETE



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



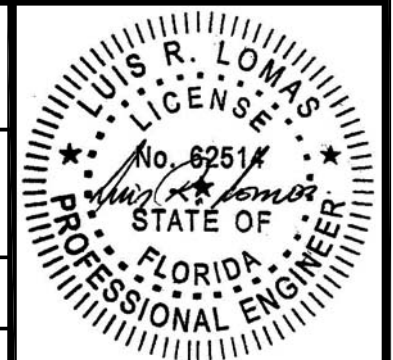
**ASTRAGAL SILL DETAIL**



**HINGE INSTALLATION DETAIL**  
METAL STRUCTURE

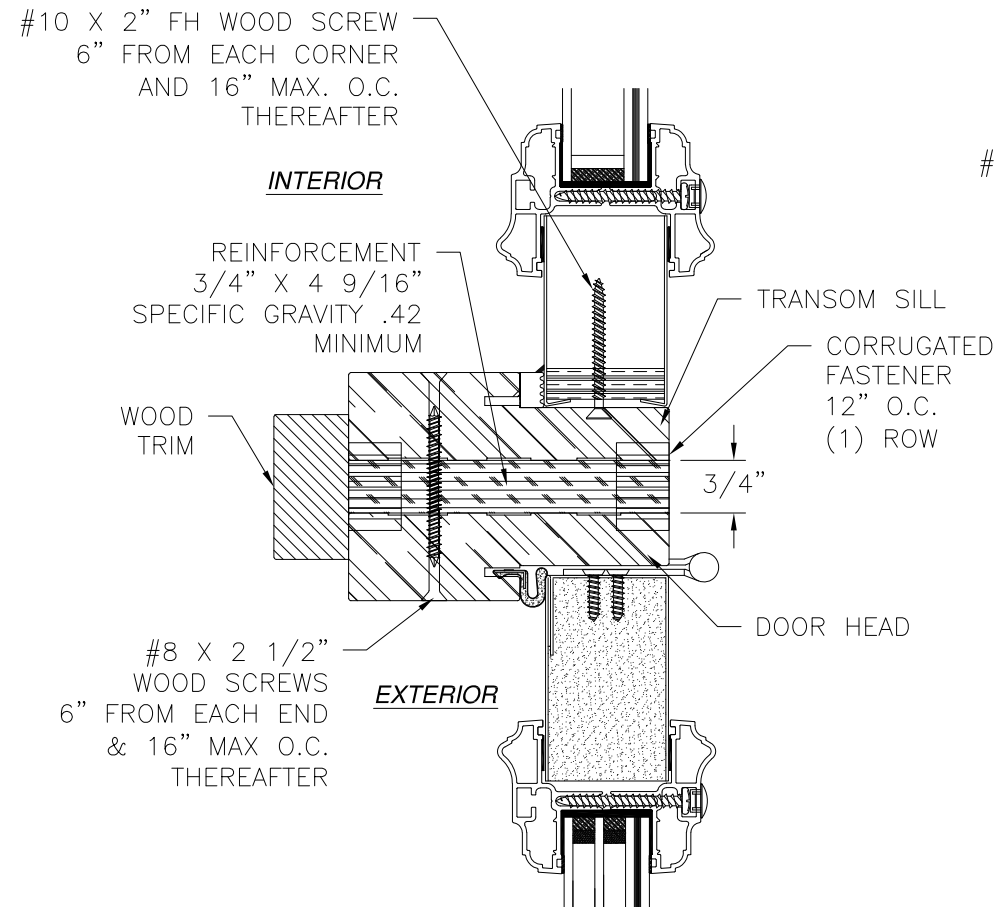
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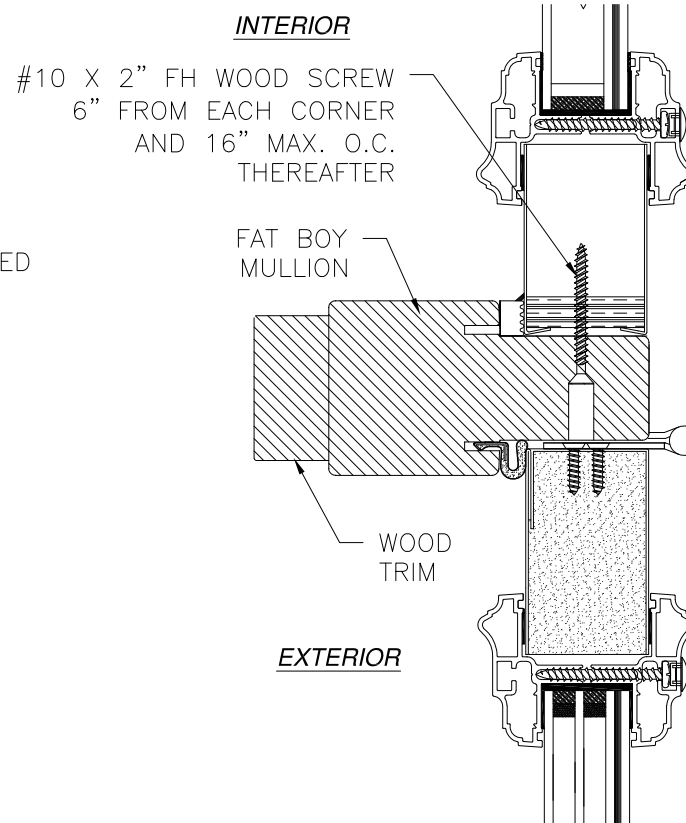


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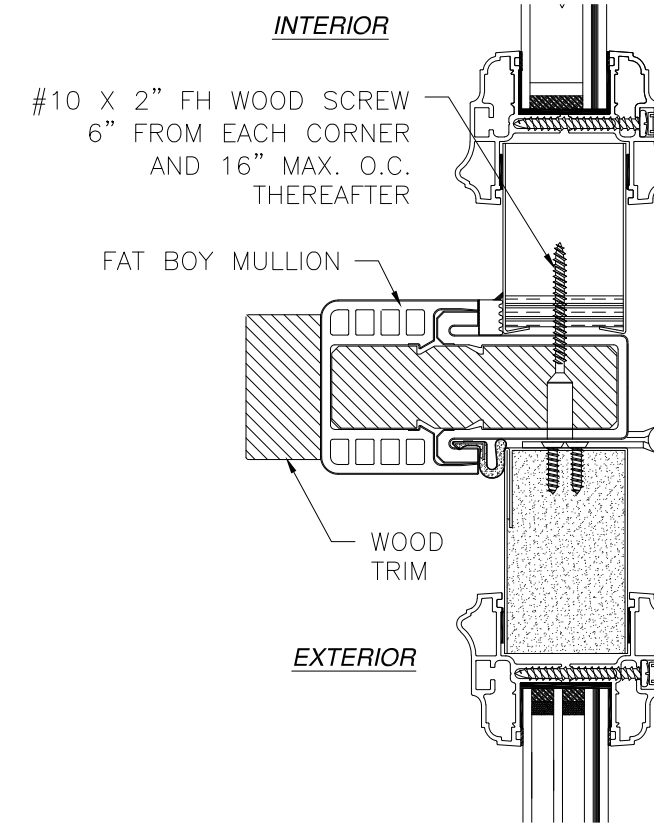
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**MULLION DETAIL**  
STANDARD FRAME SHOWN,  
COMPOSITE AND FUSION FRAME SIMILAR



**MULLION DETAIL**  
WITH FAT BOY MULLION



**MULLION DETAIL**  
WITH HYBRID FAT BOY MULLION

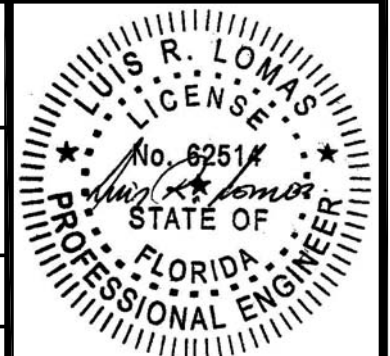
SIGNED: 09/07/2021

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

STEEL INSWING GLAZED DOUBLE DOOR  
W/TRANSOM - IMPACT  
MULLION DETAILS

DRAWN: J.L.	DWG NO. 08-01967	REV H
SCALE NTS	DATE 04/23/13	SHEET 11 OF 13

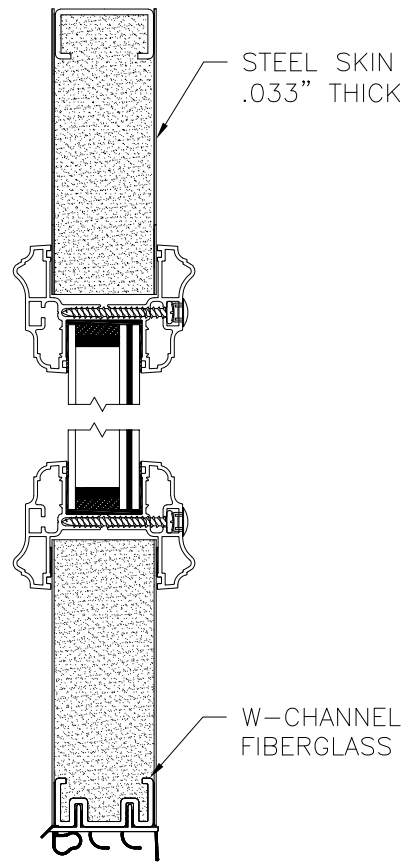
L. ROBERTO LOMAS P.E.  
1432 WOODFORD RD LEWISVILLE, NC 27023  
434-688-0609 rllomas@rlomaspe.com



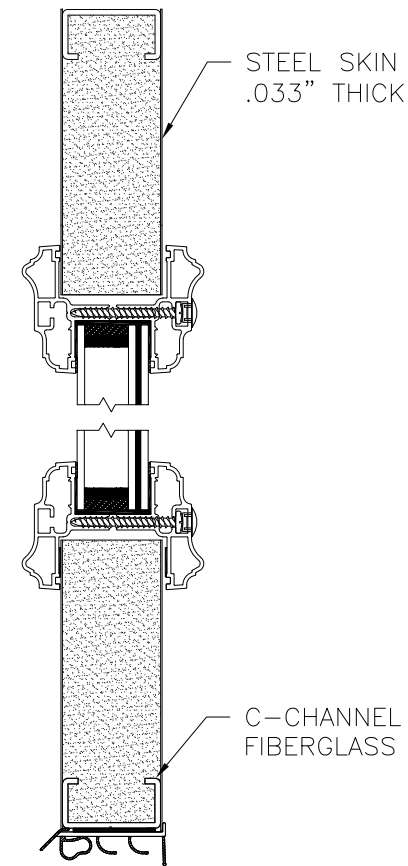
Luis R. Lomas P.E.  
FL No.: 62514

# APPROVED SLABS AND TRIMS

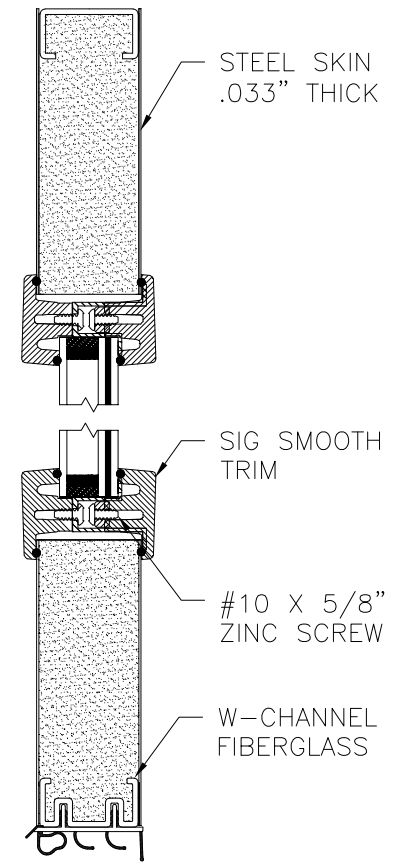
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
H	ADDED MULTILITE PANELS & TRIMS	08/12/2021	R.L.



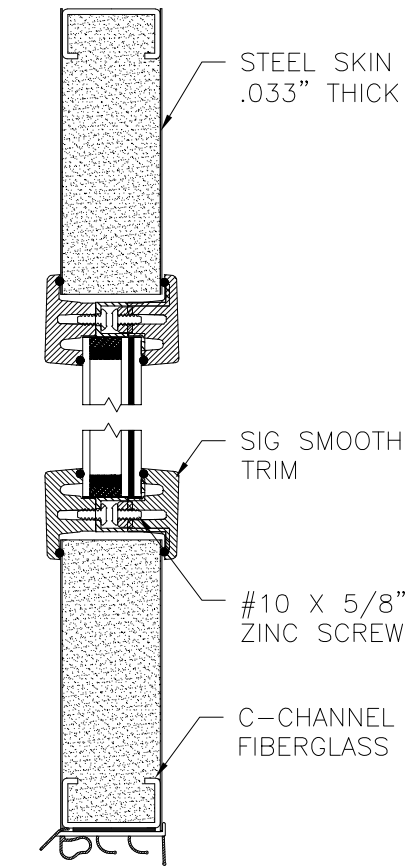
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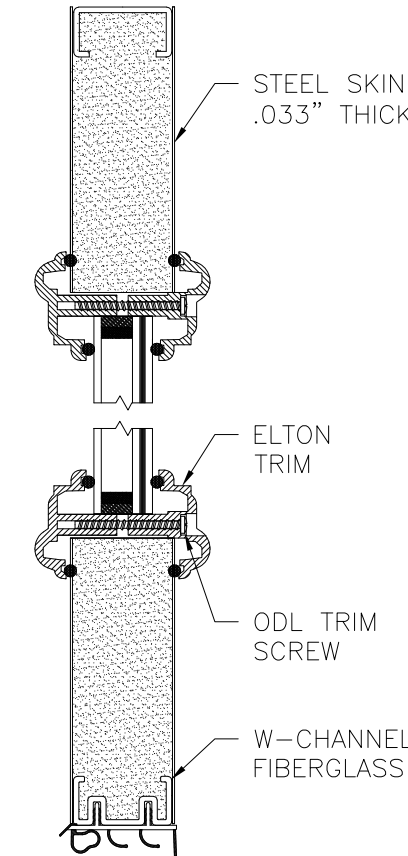
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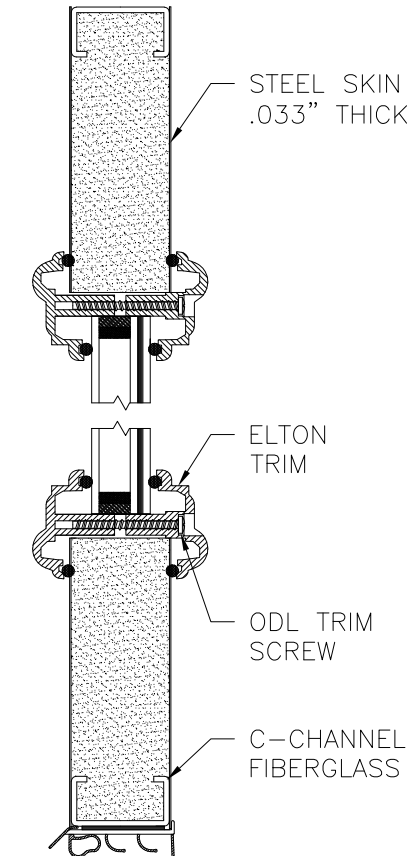
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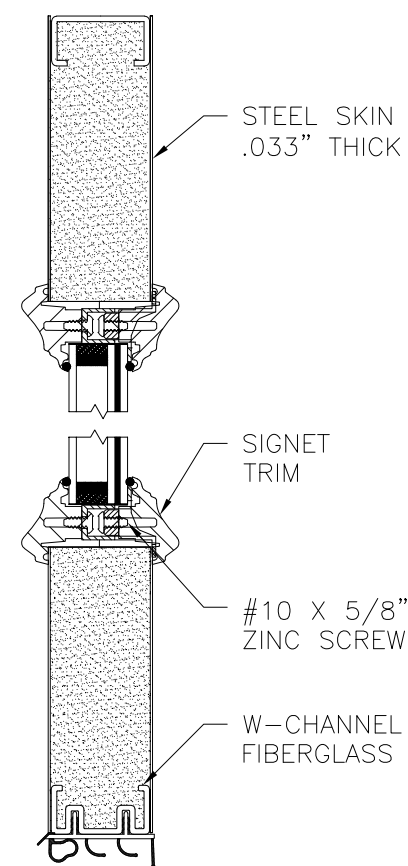
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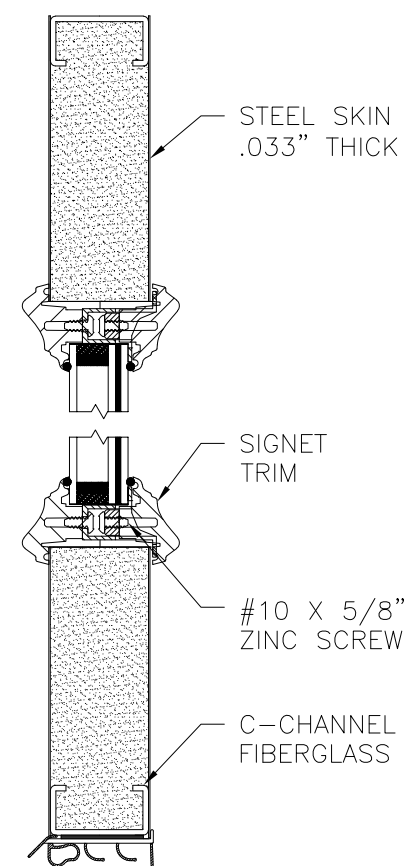
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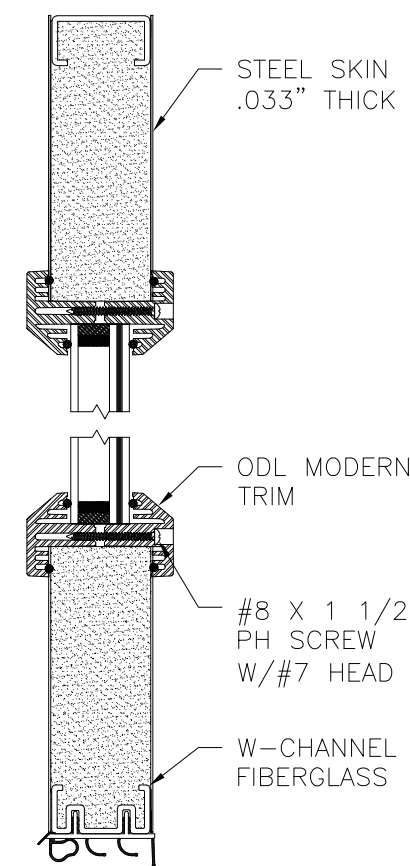
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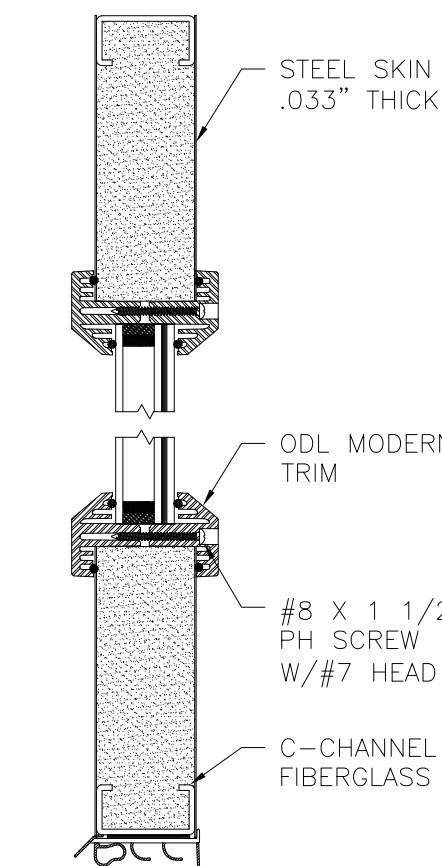
PANEL OPTION 5



PANEL OPTION 6



PANEL OPTION 7



PANEL OPTION 8

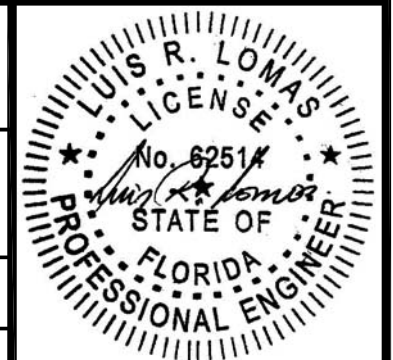
PROVIA, LLC.  
 2150 STATE ROUTE 39 WEST  
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STEEL INSWING GLAZED DOUBLE DOOR  
 W/TRANSOM - IMPACT  
 APPROVED SLABS

DRAWN: J.L.	DWG NO. 08-01967	REV H
SCALE NTS	DATE 04/23/13	SHEET 12 OF 13

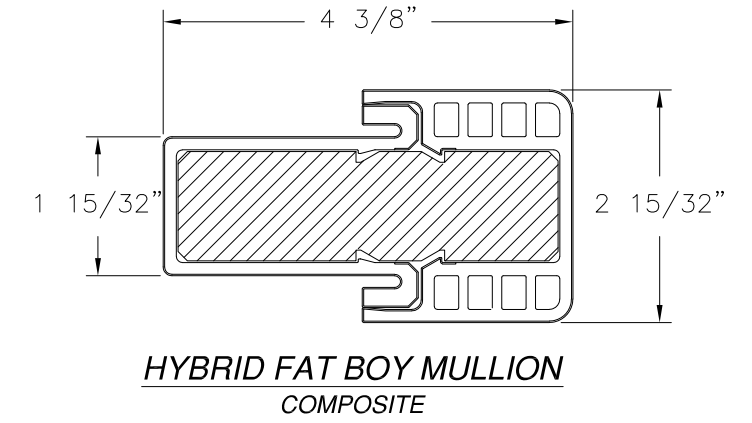
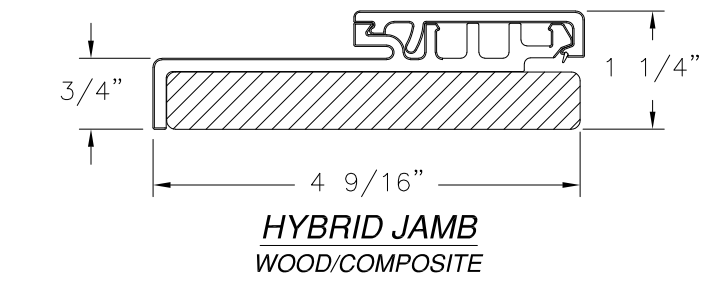
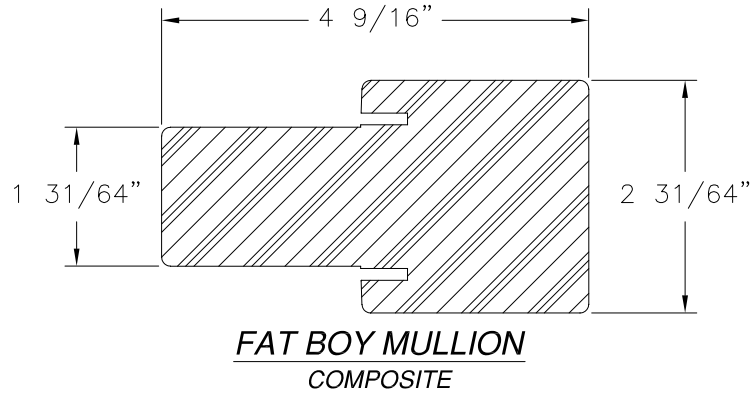
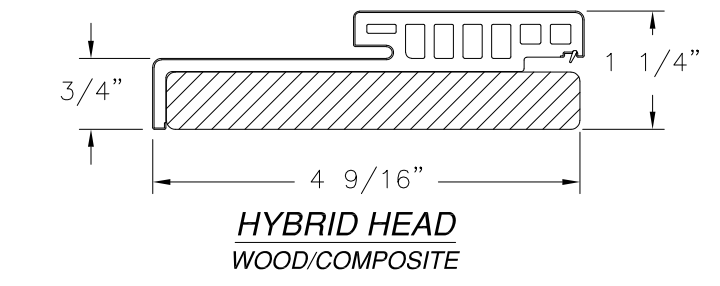
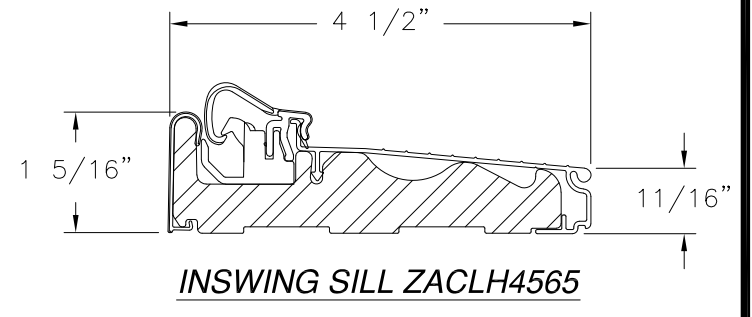
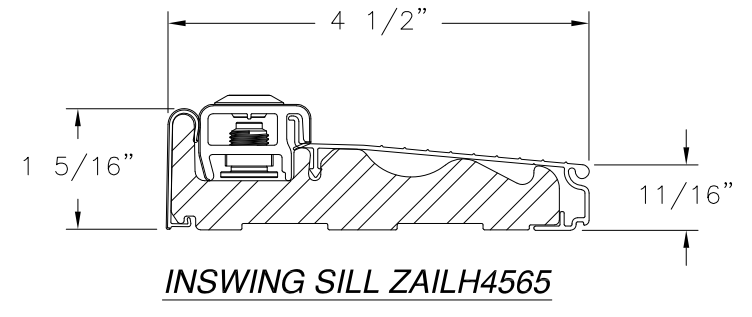
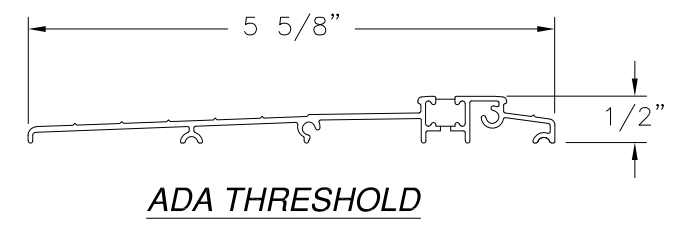
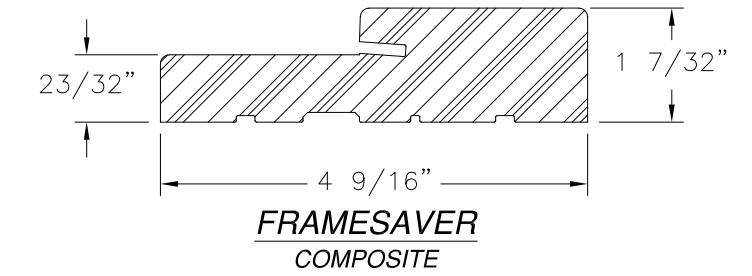
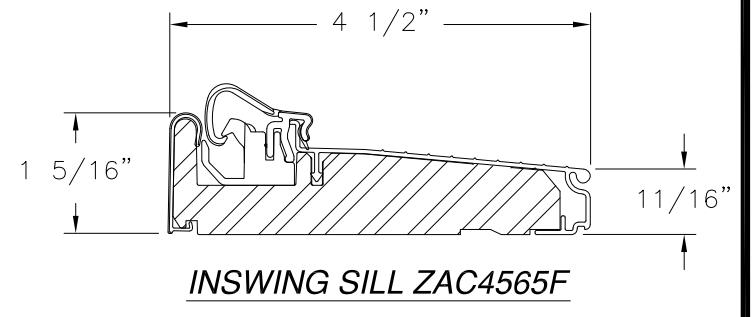
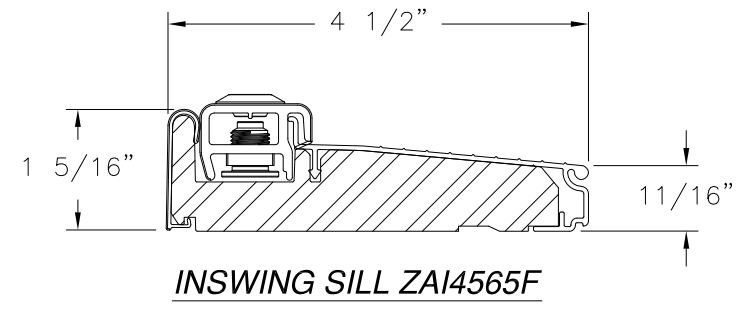
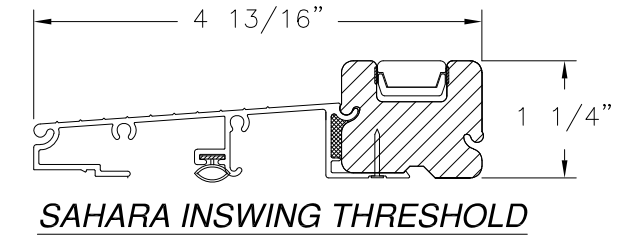
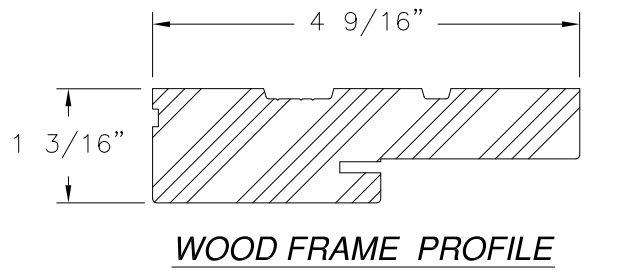
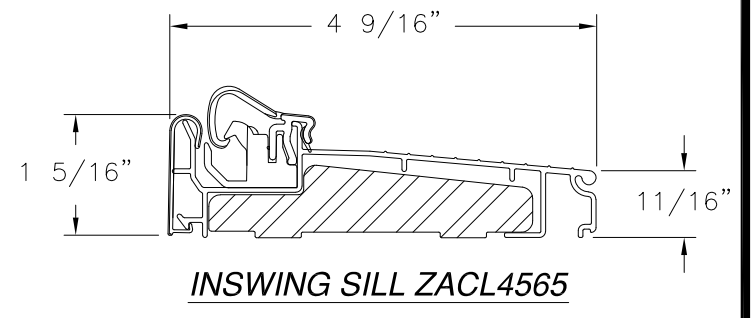
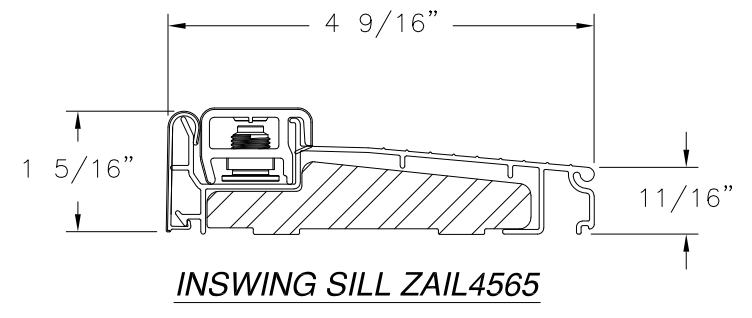
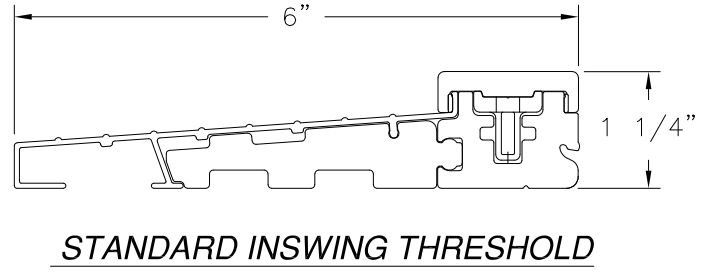
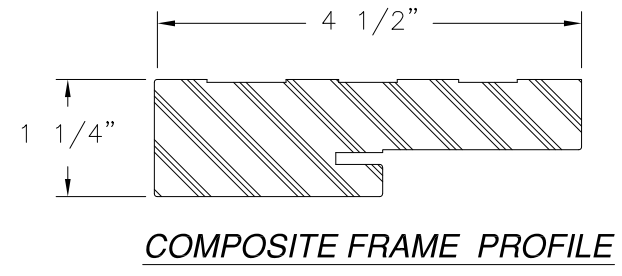
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 COMPONENTS

DRAWN: J.L.	DWG NO. 08-01967	REV H
SCALE NTS	DATE 04/23/13	SHEET 13 OF 13

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