

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	REVISE TO ADD PANOLOCK	11/14/2023	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. 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. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. 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.
6. 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).
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:

13.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

13.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

13.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

13.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .048” THICK MINIMUM

SIGNED: 12/26/2023

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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

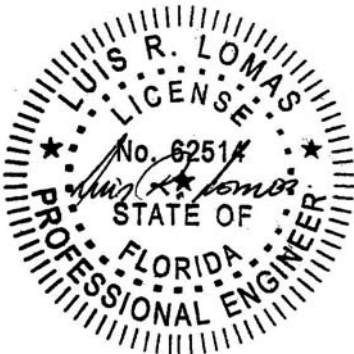
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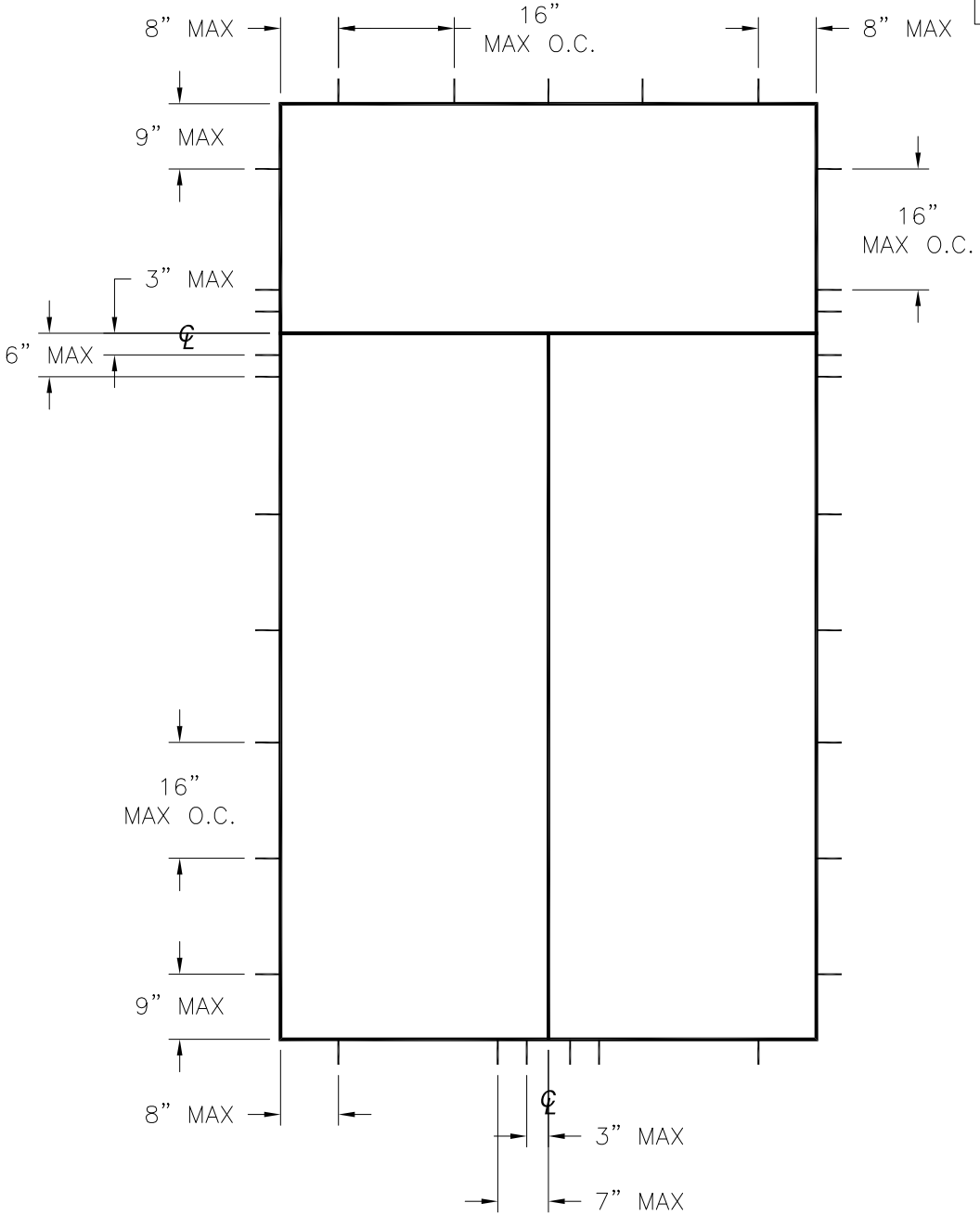
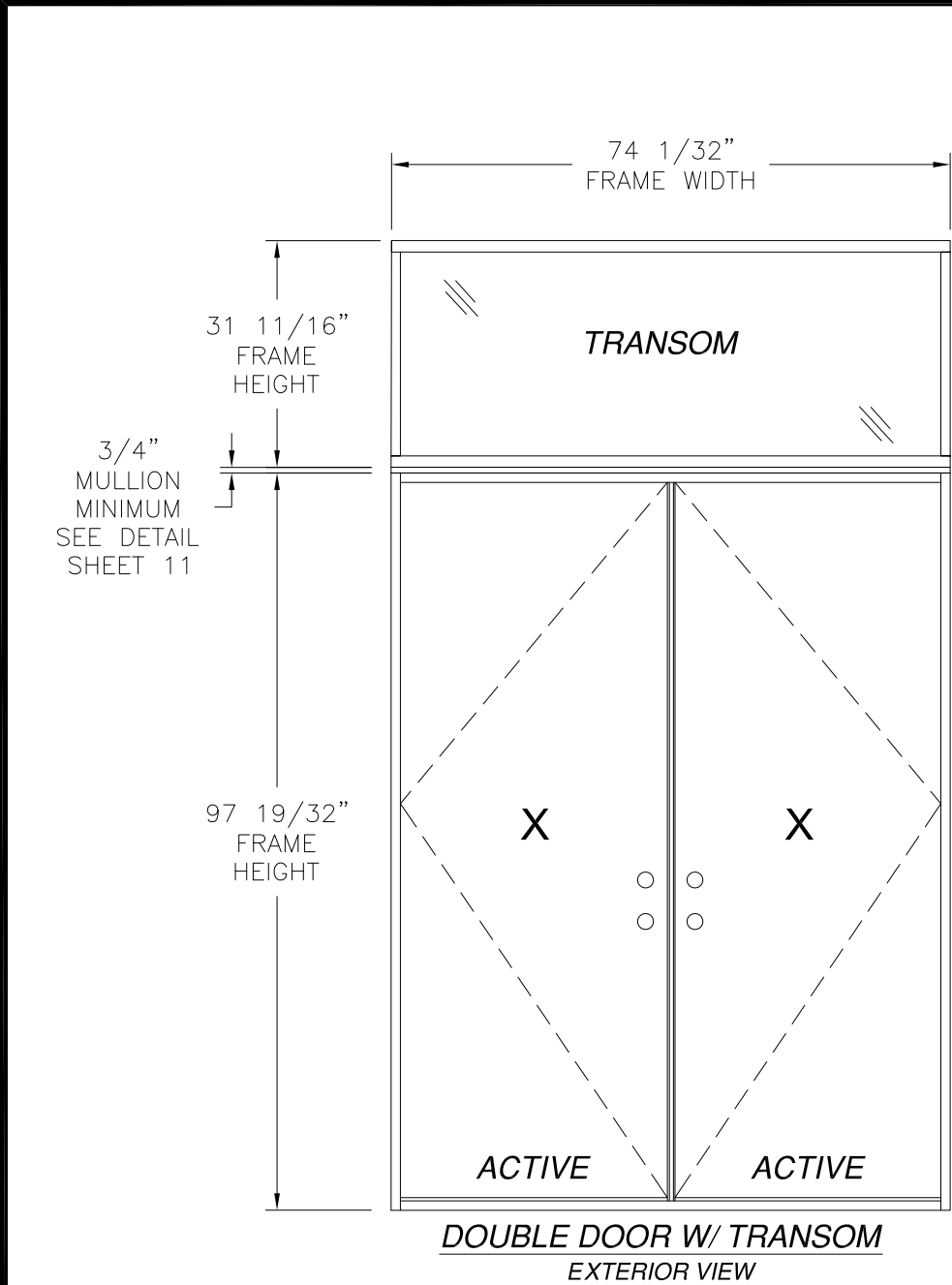
DATE 05/23/13

SHEET 1 OF 12

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



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



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DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

WITH PANOLOCK MULTI-POINT	
DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 3

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.	PANOLOCK MULTI-POINT LOCK ASSEMBLY (ALTERNATE)
G.	(3) 4" X 4" BALL BEARING HINGES BY PENROD
H.	(3) 4" X 4" SPRING BOMMER HINGES BY PENROD (ALTERNATE)

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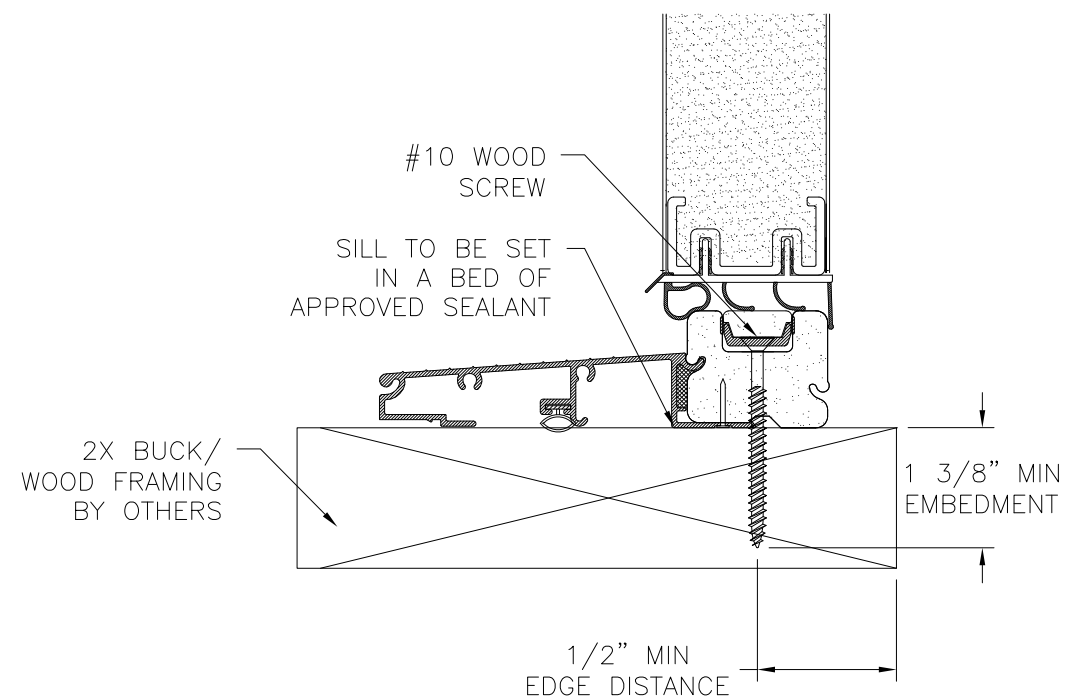
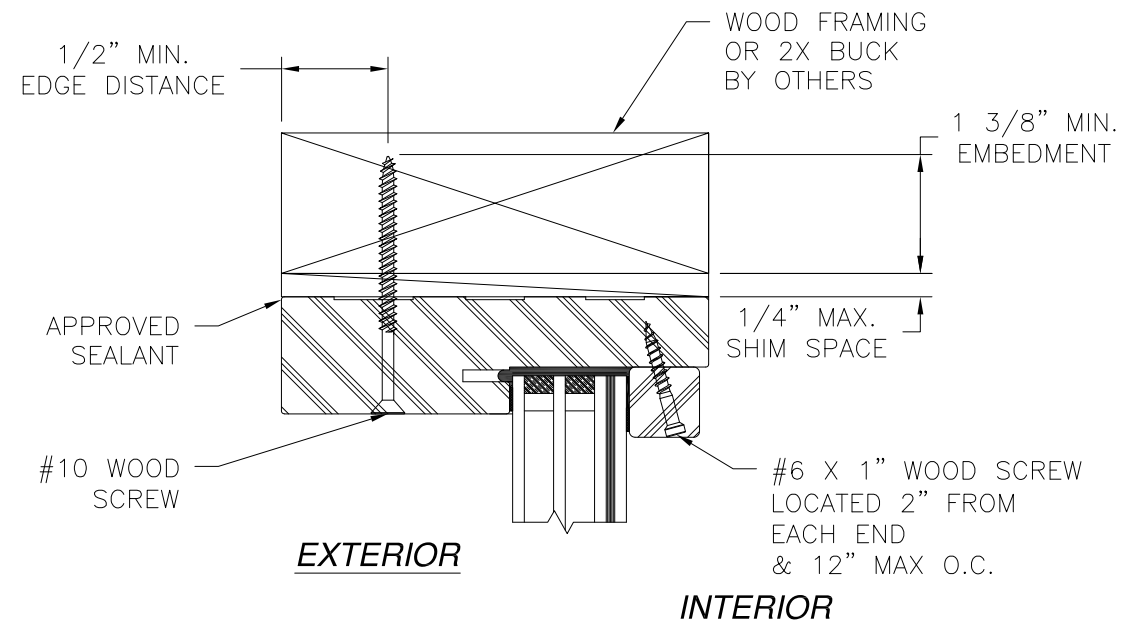
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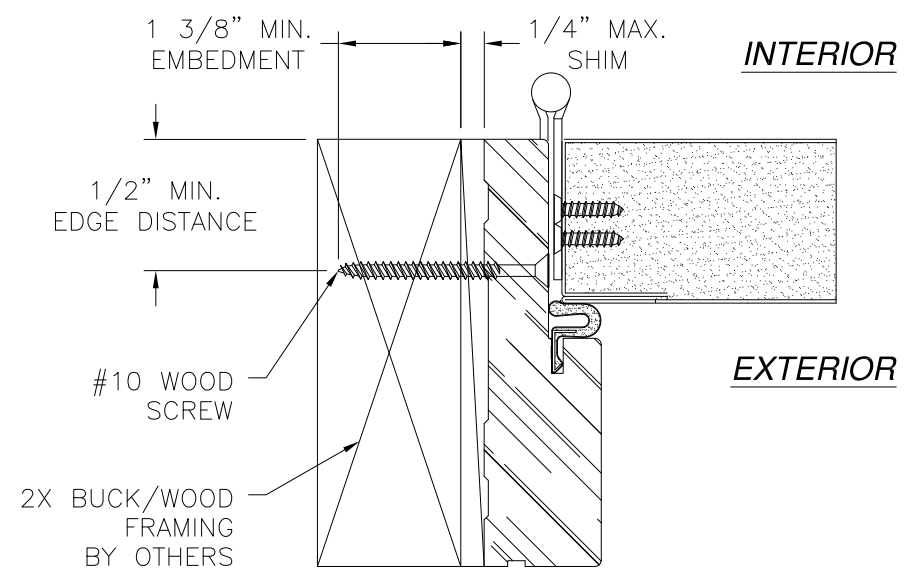
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VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



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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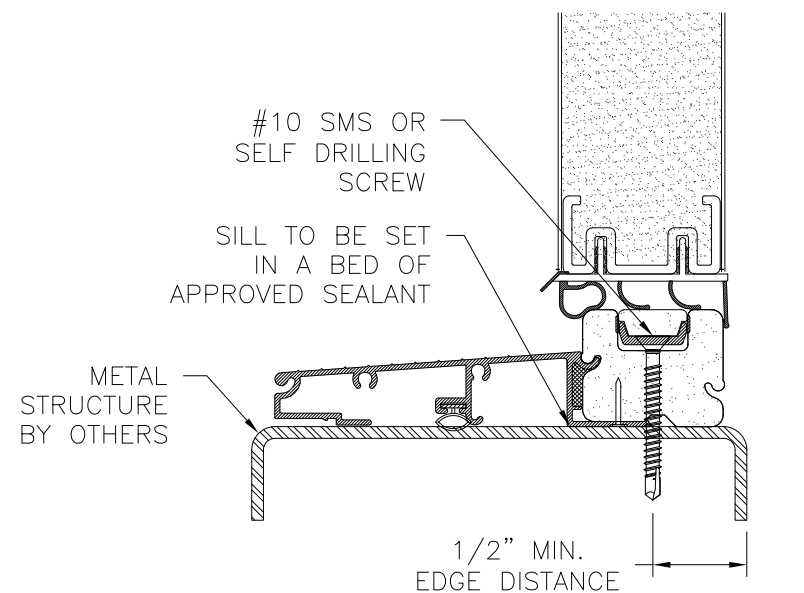
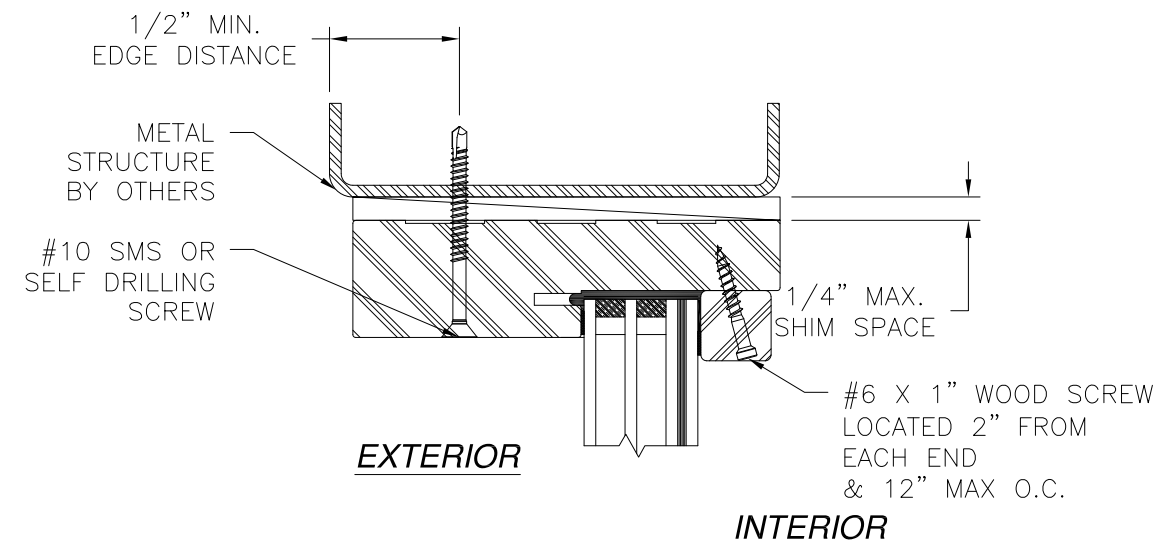
SHEET 3 OF 12

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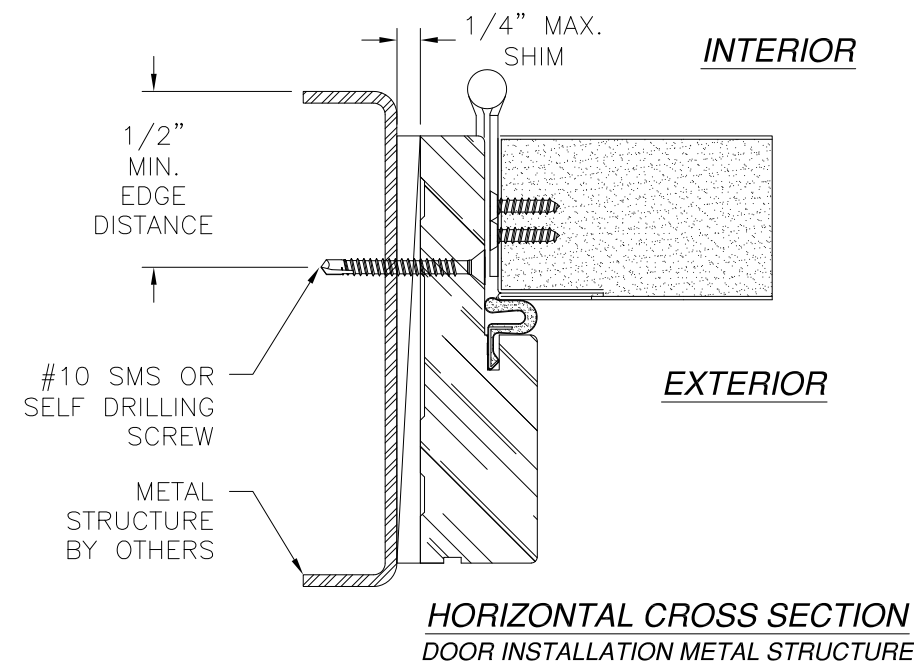
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STATE OF
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PROFESSIONAL ENGINEER

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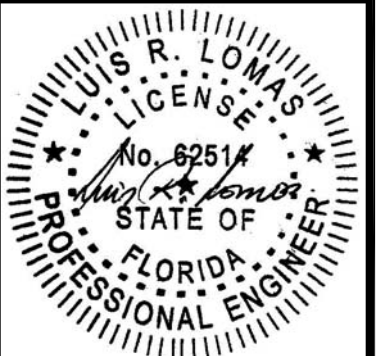
VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION METAL STRUCTURE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



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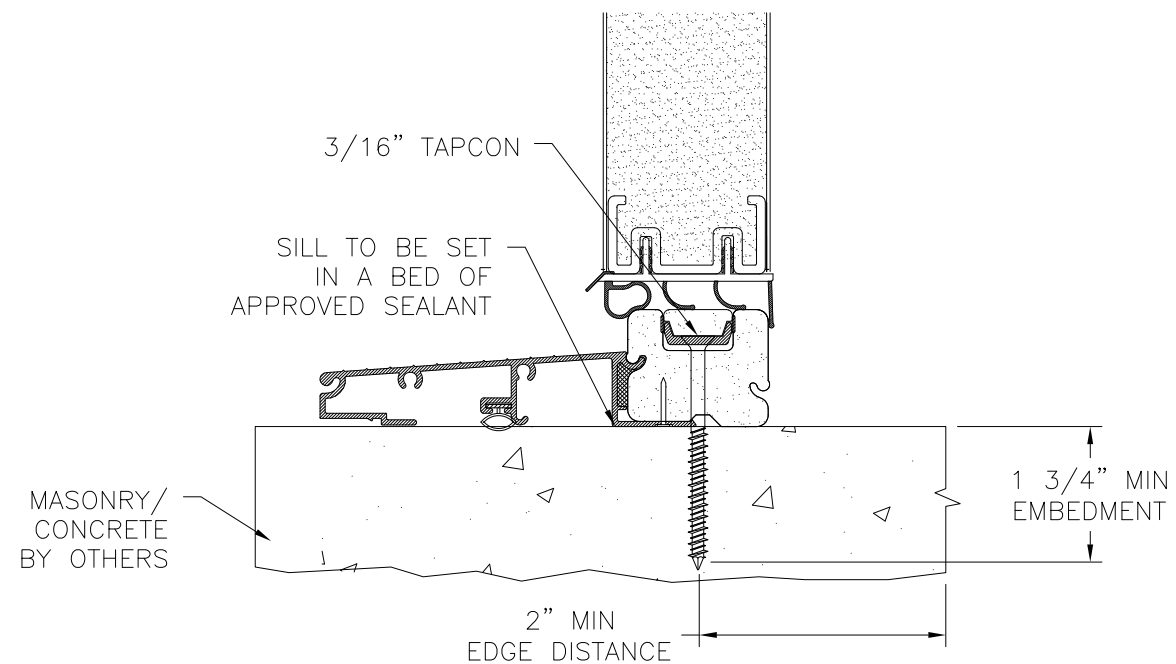
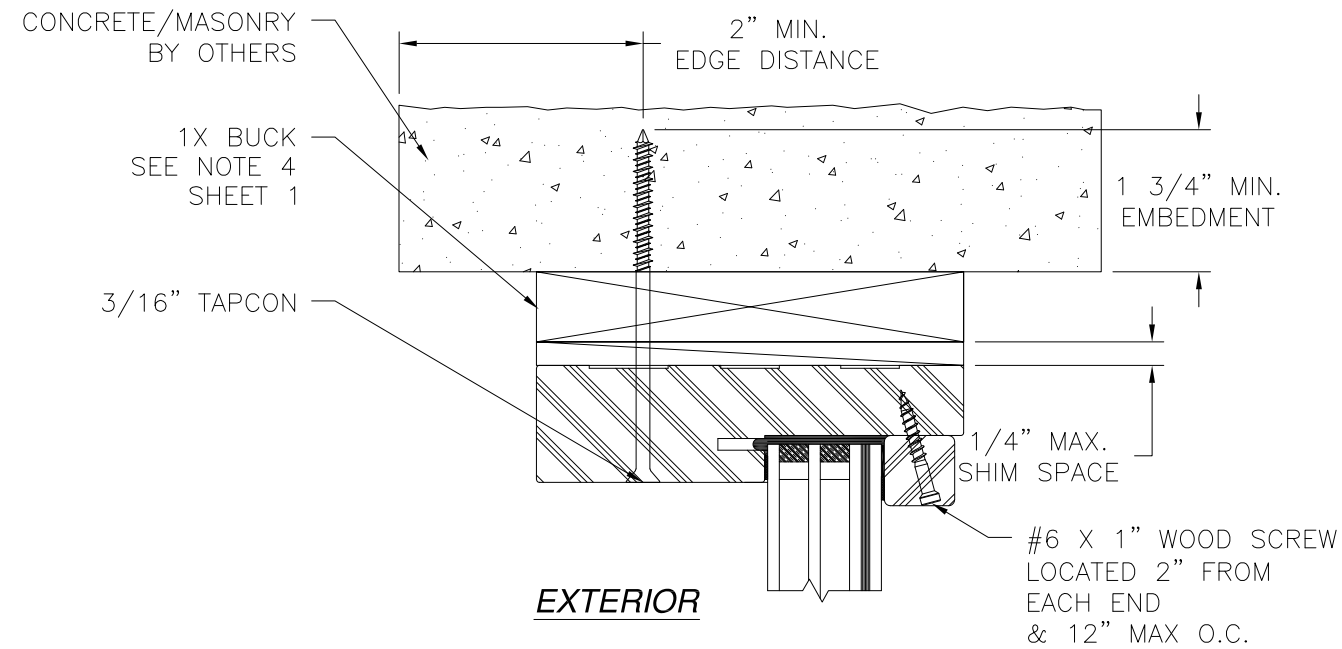
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STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/TRANSOM - IMPACT INSTALLATION DETAILS		
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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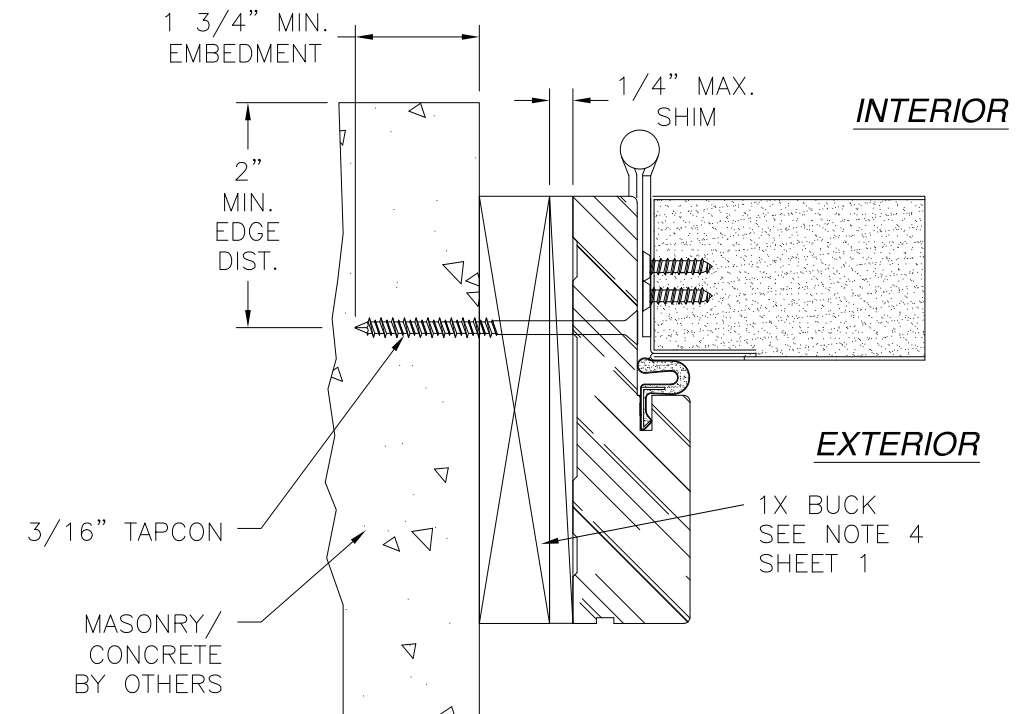
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VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

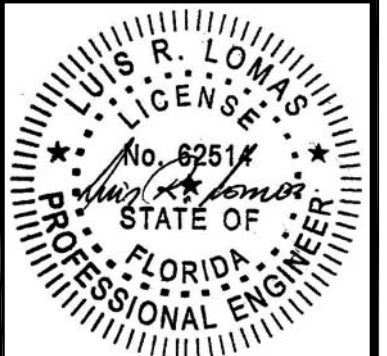
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HORIZONTAL CROSS SECTION
DOOR INSTALLATION CONCRETE/MASONRY

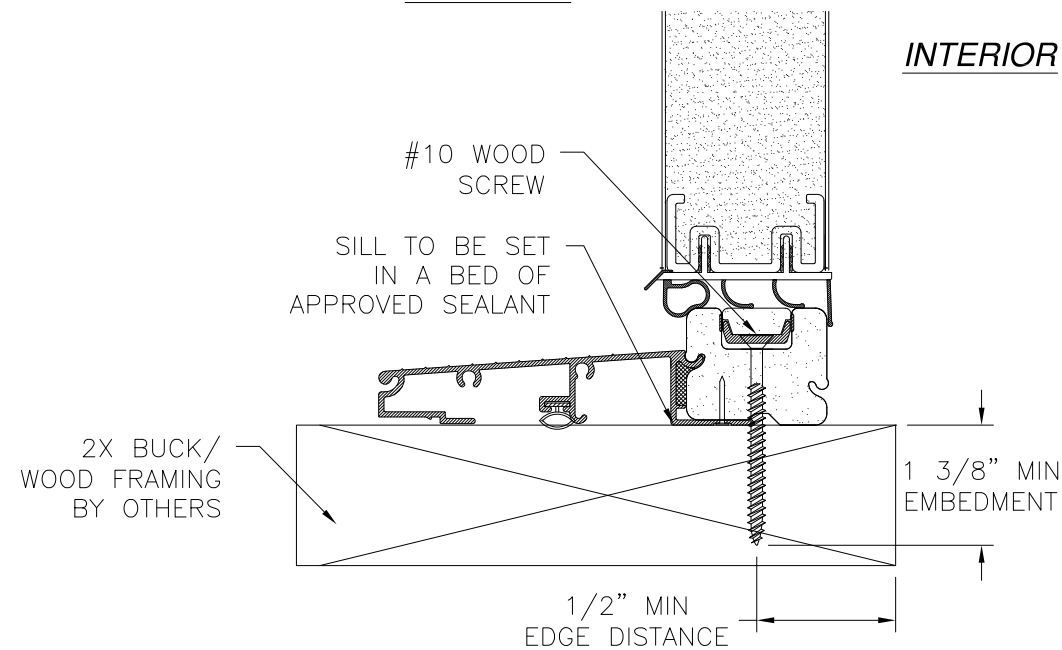
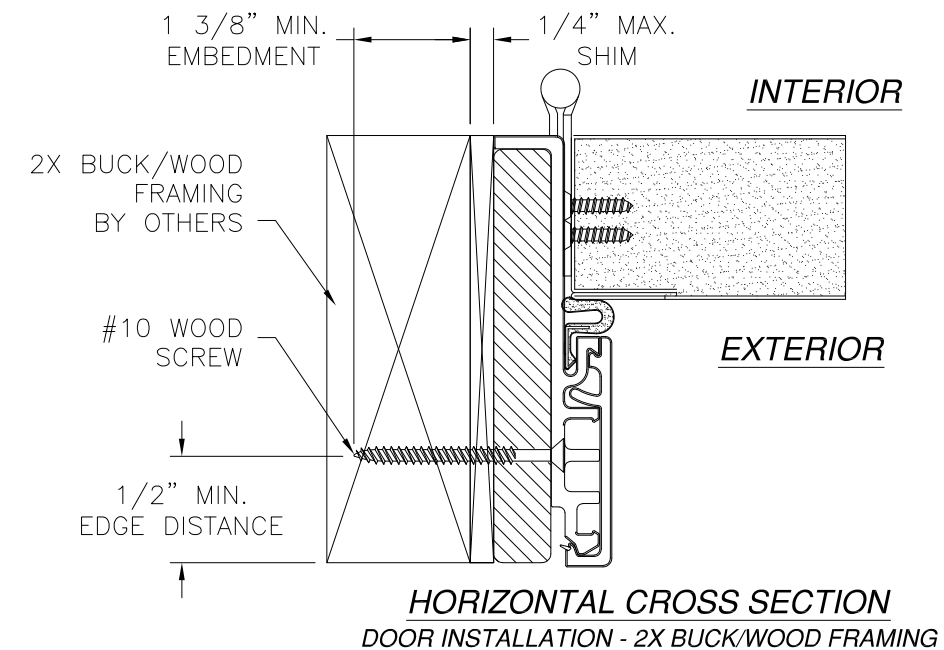
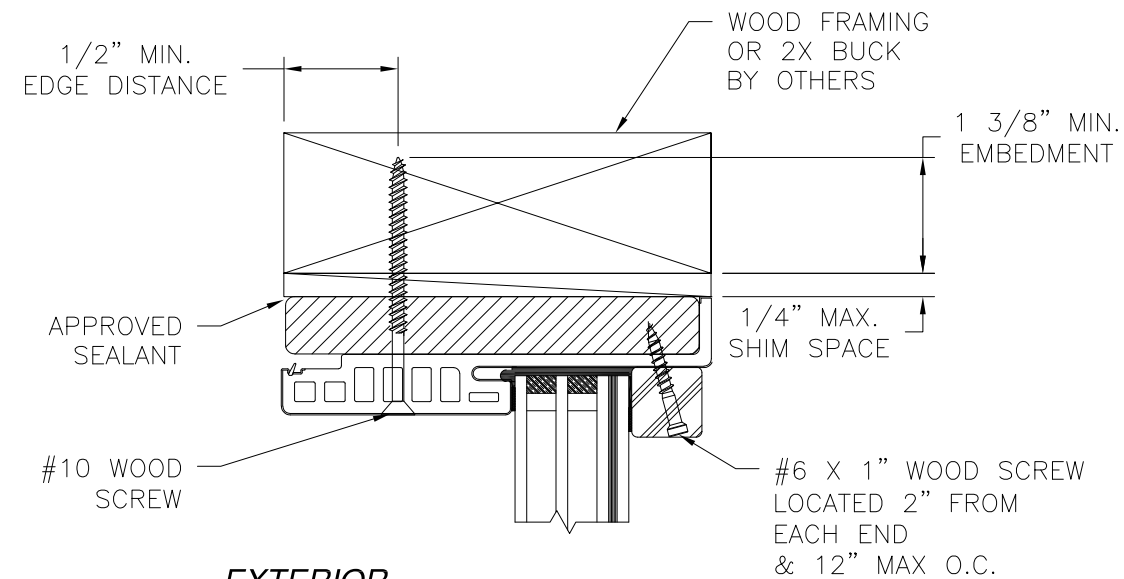
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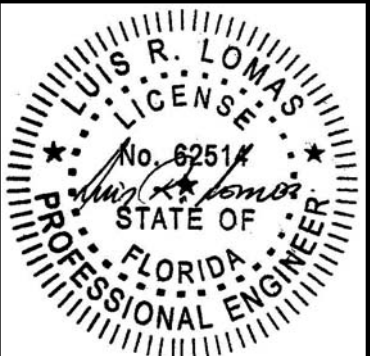


VERTICAL CROSS SECTION
DOOR AND TRANSOM INSTALLATION - 2X BUCK/WOOD FRAMING
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR

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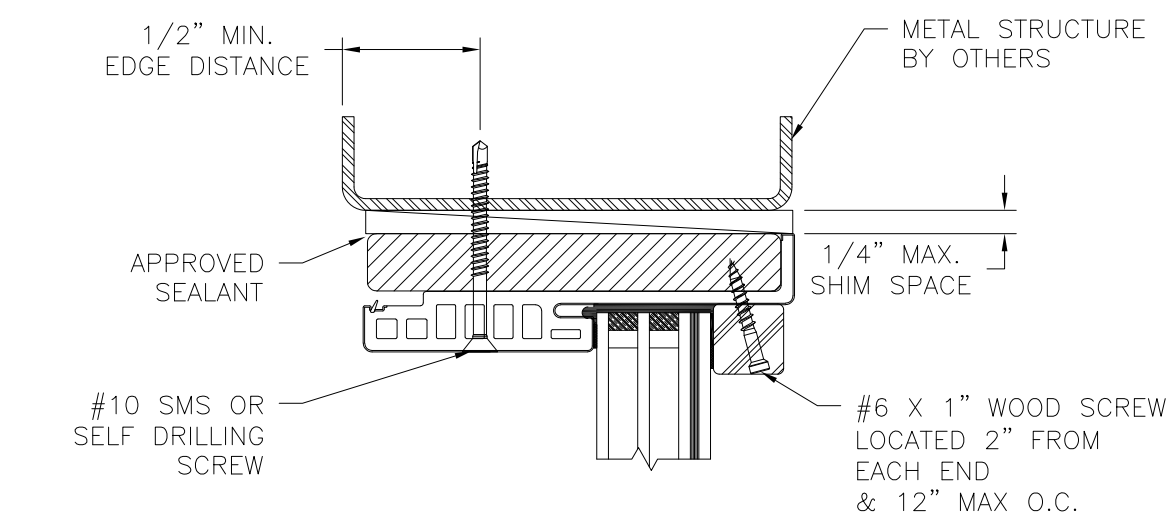
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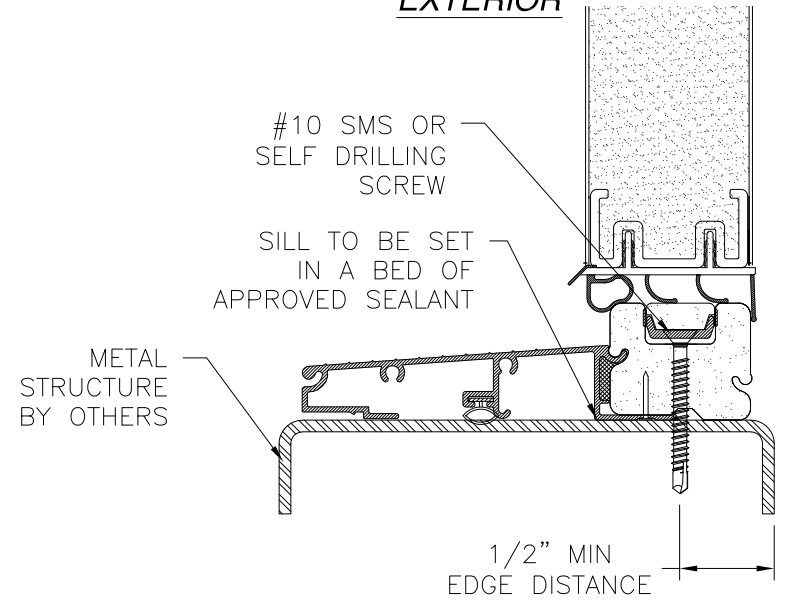
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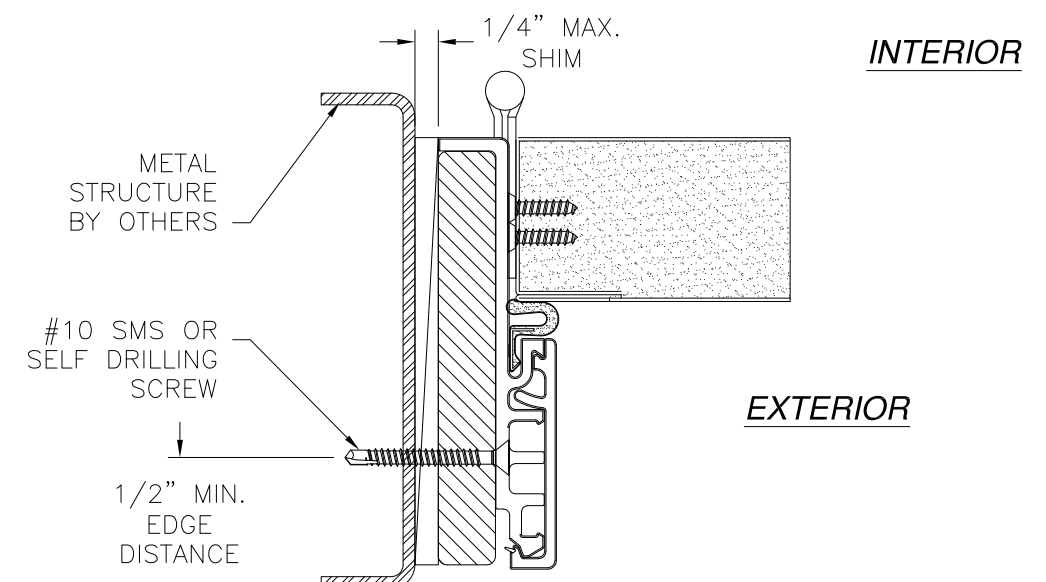
EXTERIOR

INTERIOR



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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W/TRANSOM - IMPACT
INSTALLATION DETAILS W/FUSION FRAME

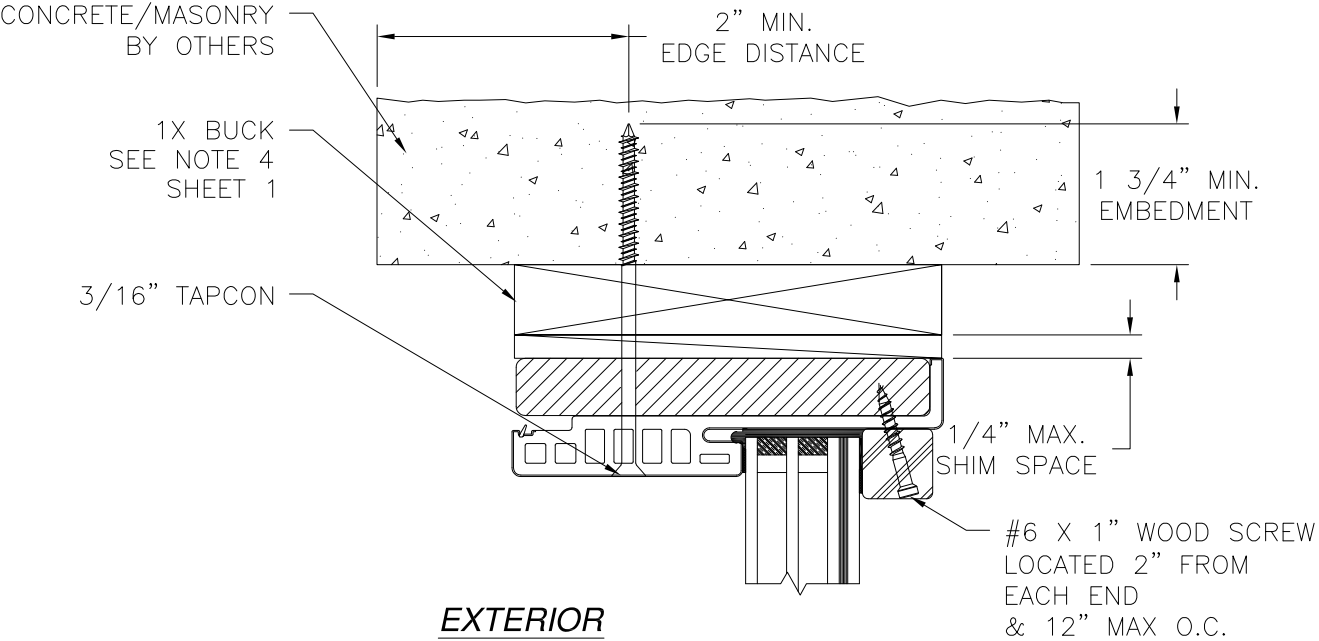
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No. 62514
STATE OF FLORIDA

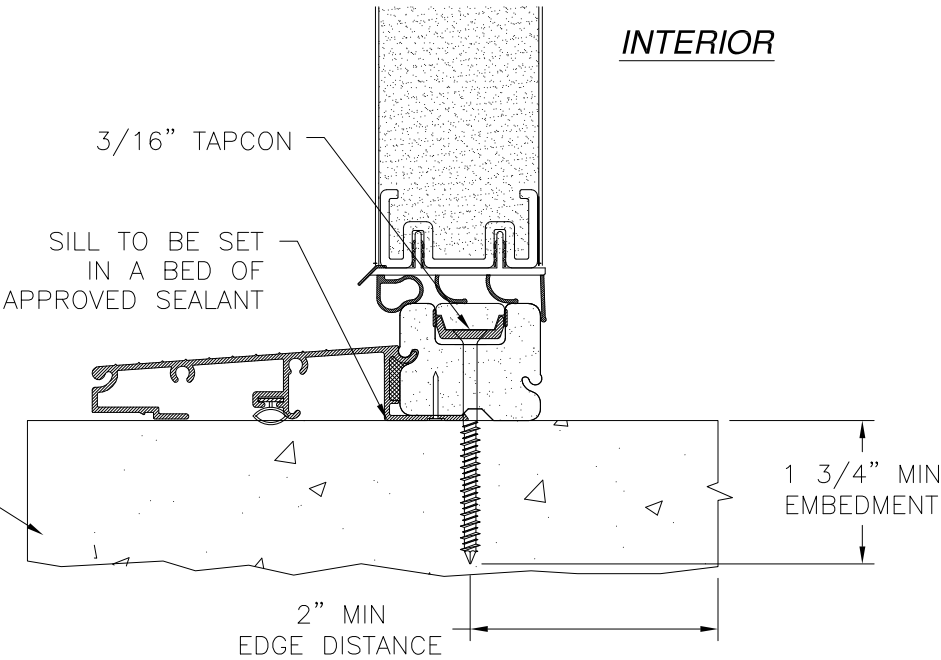
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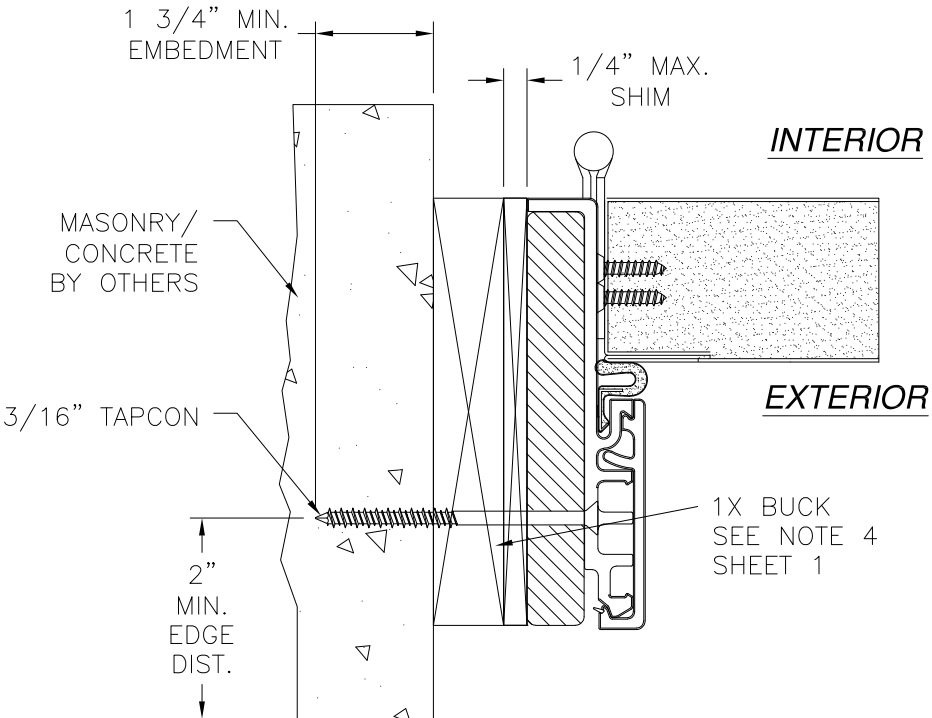
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION

DOOR AND TRANSOM INSTALLATION MASONRY/CONCRETE
TRANSOM HEAD SHOWN
TRANSOM JAMB SIMILAR



INTERIOR

EXTERIOR

HORIZONTAL CROSS SECTION
DOOR INSTALLATION CONCRETE/MASONRY

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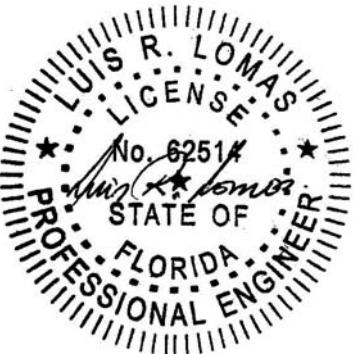
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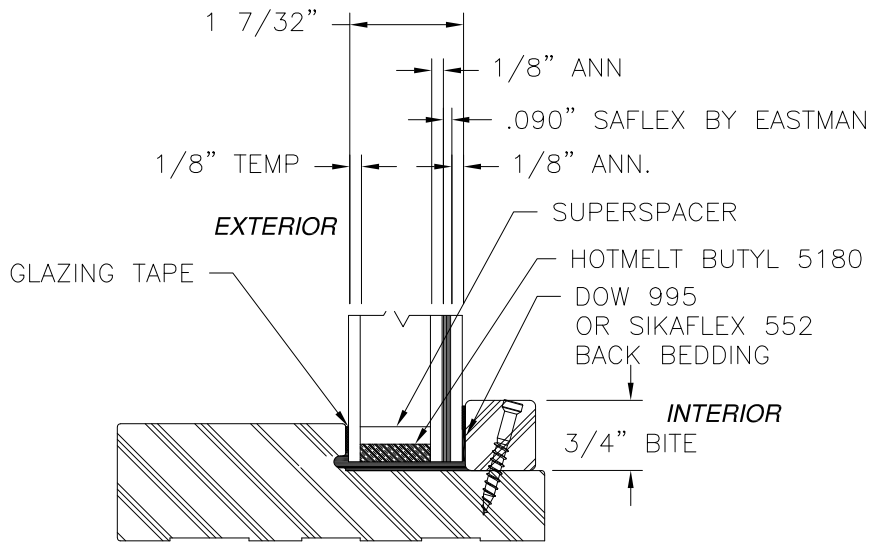
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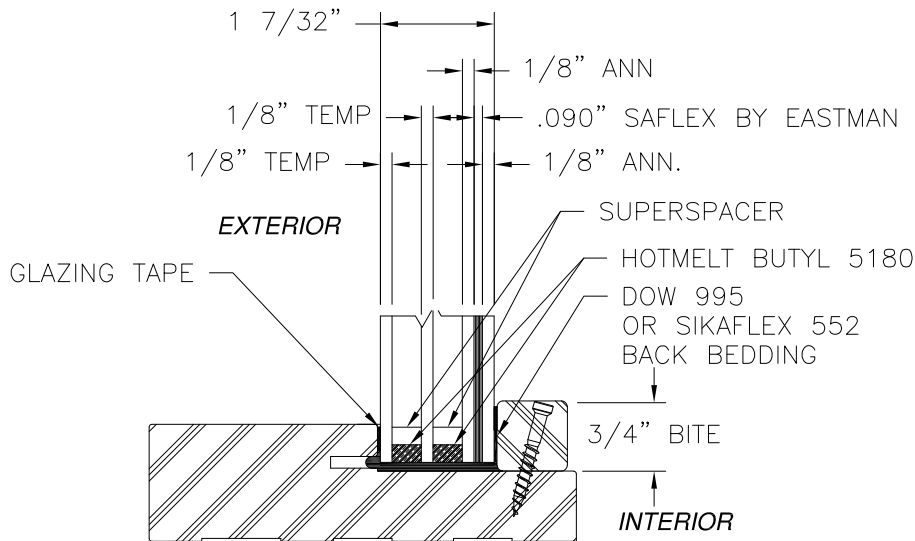
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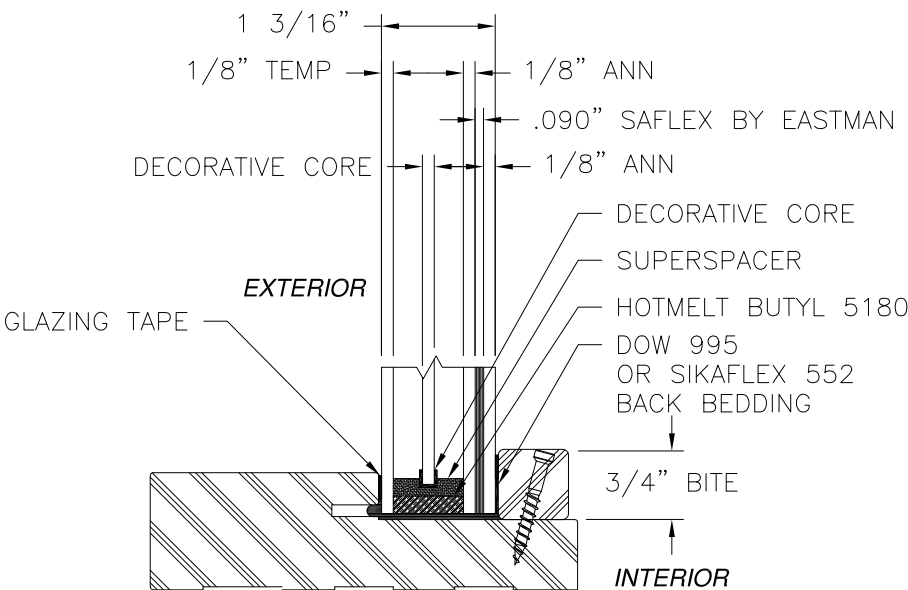
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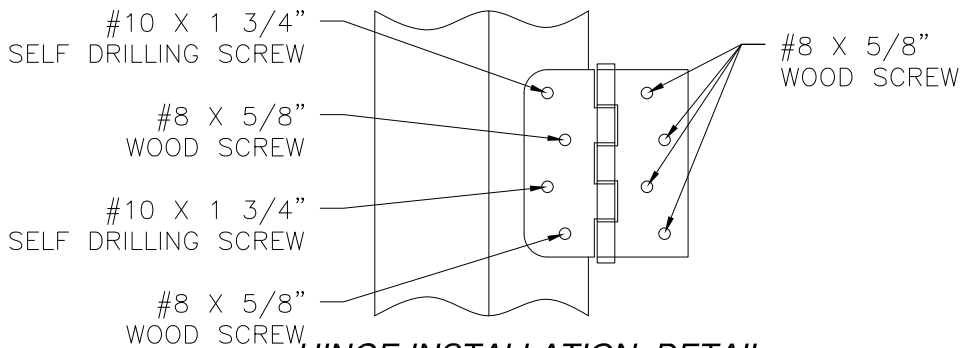
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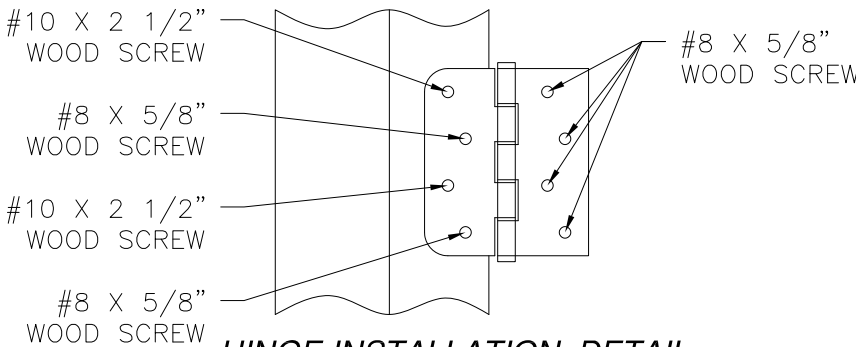
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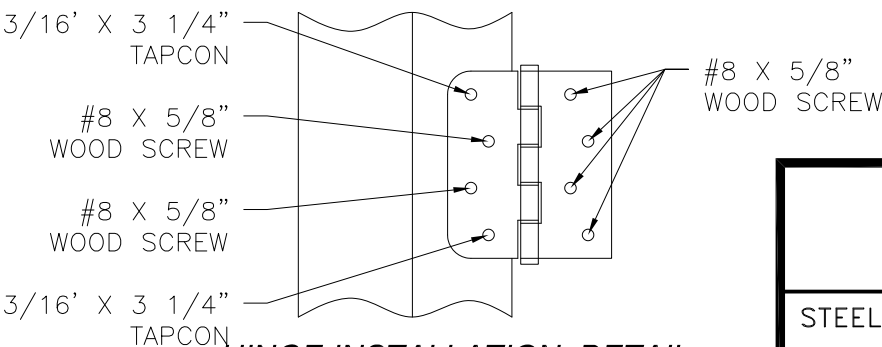
GLAZING DETAIL C



HINGE INSTALLATION DETAIL
METAL STRUCTURE

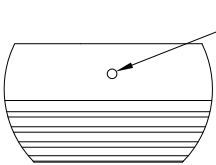


HINGE INSTALLATION DETAIL
2X BUCK/WOOD FRAMING



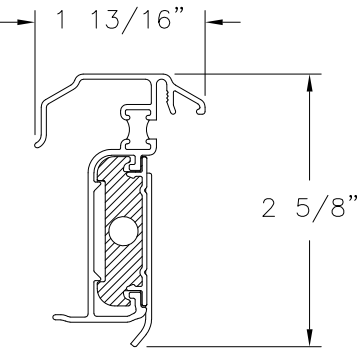
HINGE INSTALLATION DETAIL
MASONRY/CONCRETE

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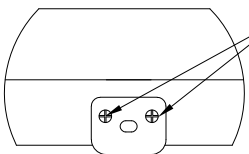


ASTRAGAL BOLT HOLE MUST
BE DRILLED THROUGH SILL
AND INTO SUBSTRATE DEEP
ENOUGH TO ACHIEVE 1 3/8"
THROW

ASTRAGAL SILL DETAIL



HURRICANE ASTRAGAL DETAIL



ASTRAGAL HEAD STRIKE DETAIL
2X BUCK/WOOD FRAMING

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W/TRANSOM - IMPACT
COMPONENTS AND GLAZING DETAILS

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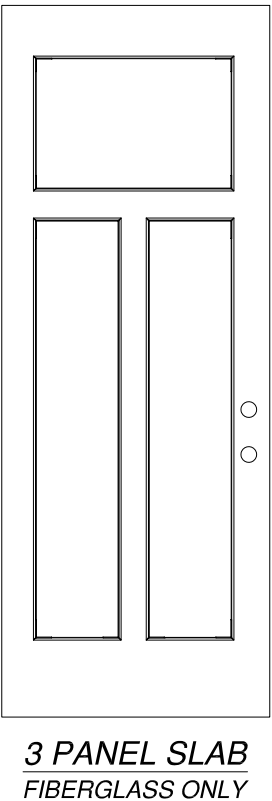
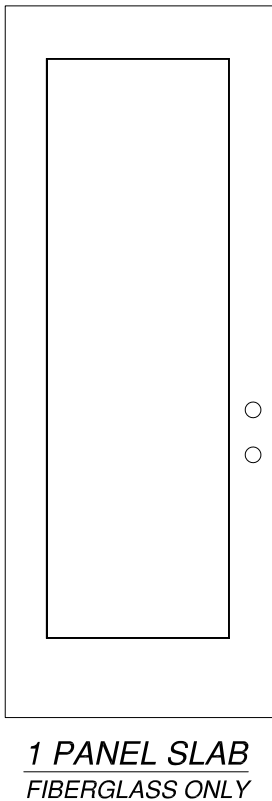
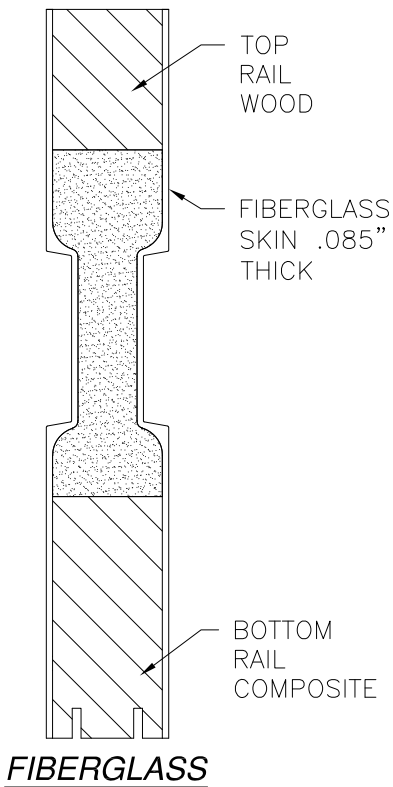
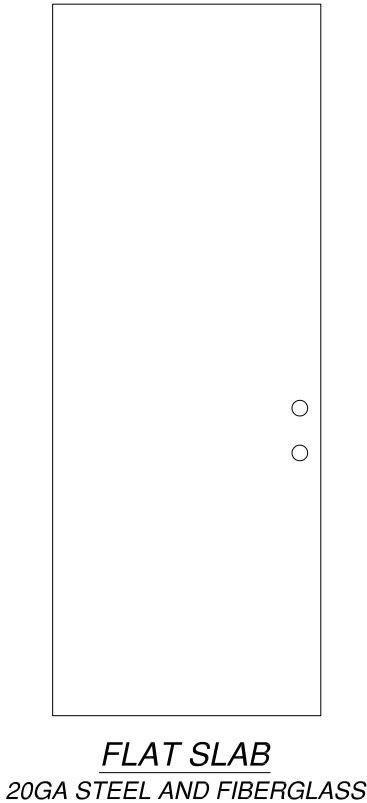
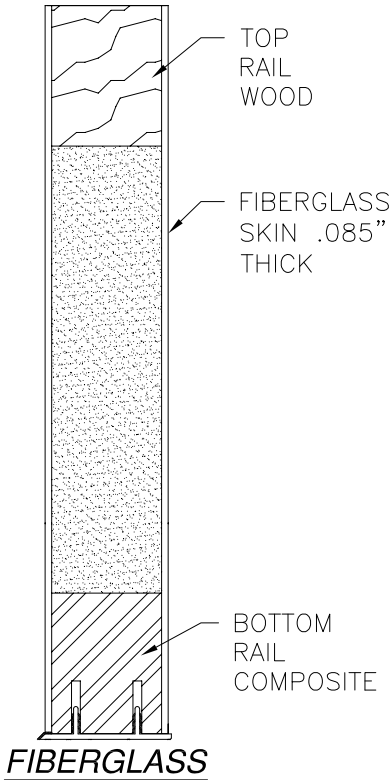
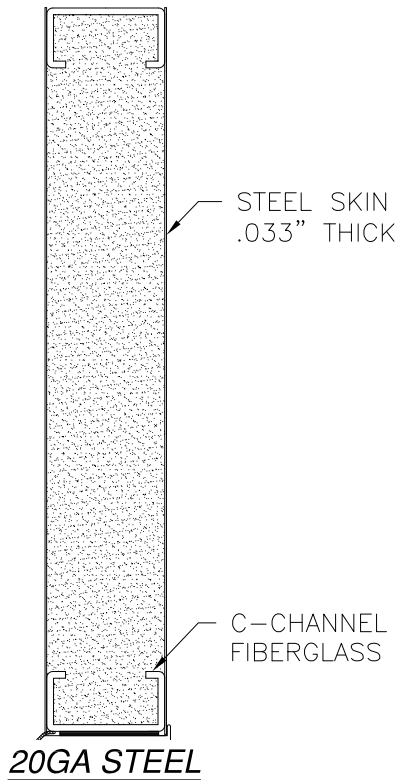
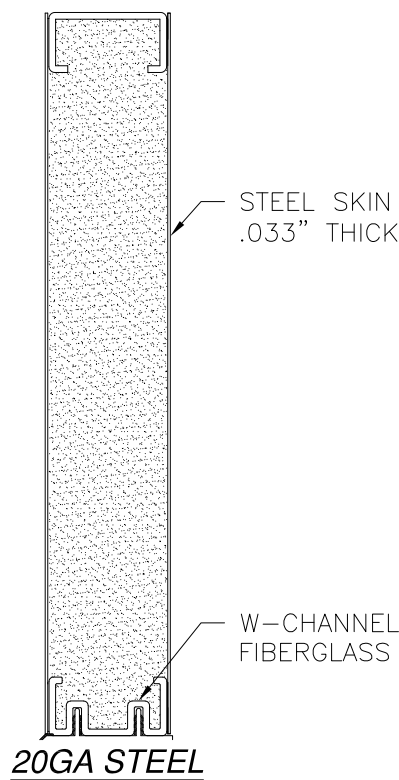
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APPROVED SLABS AND CROSS SECTIONS

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COMPONENTS, APPROVED SLABS

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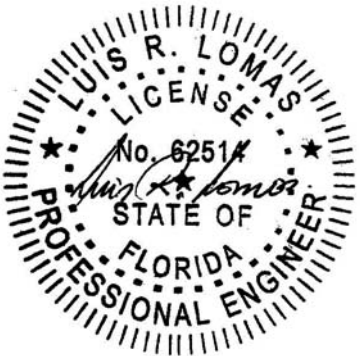
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DATE 05/23/13

SHEET 10 OF 12

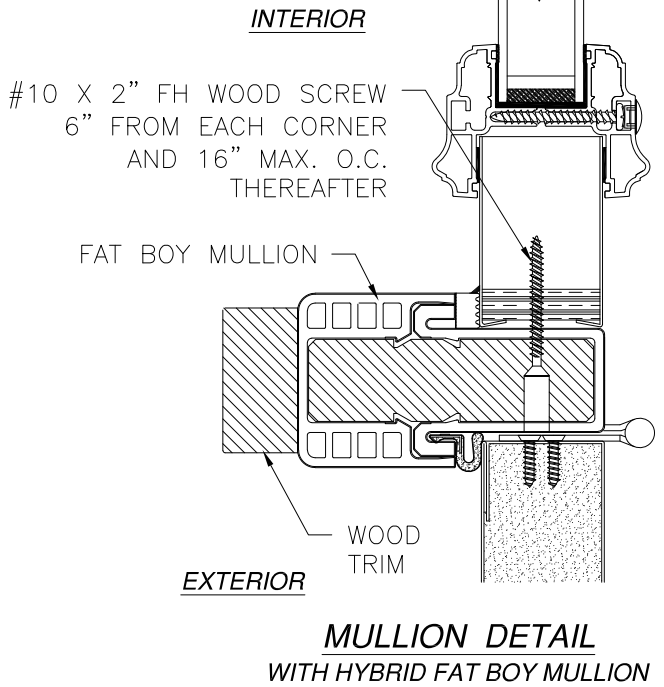
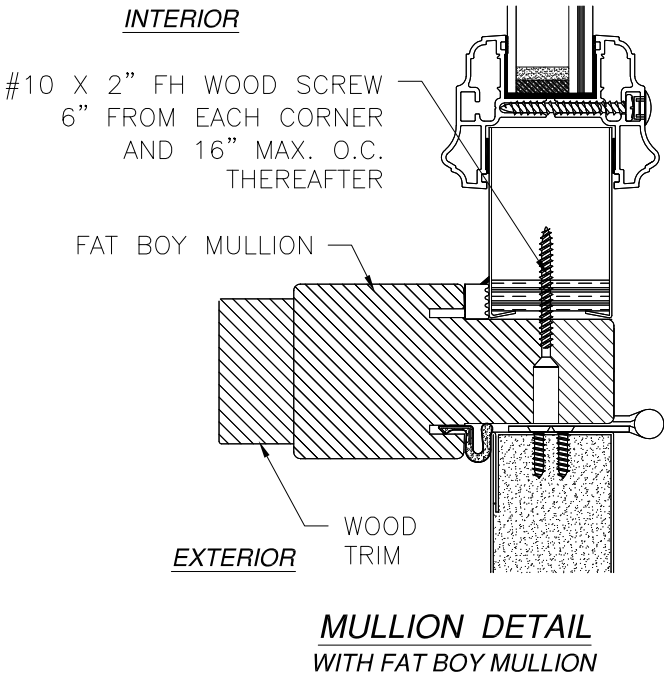
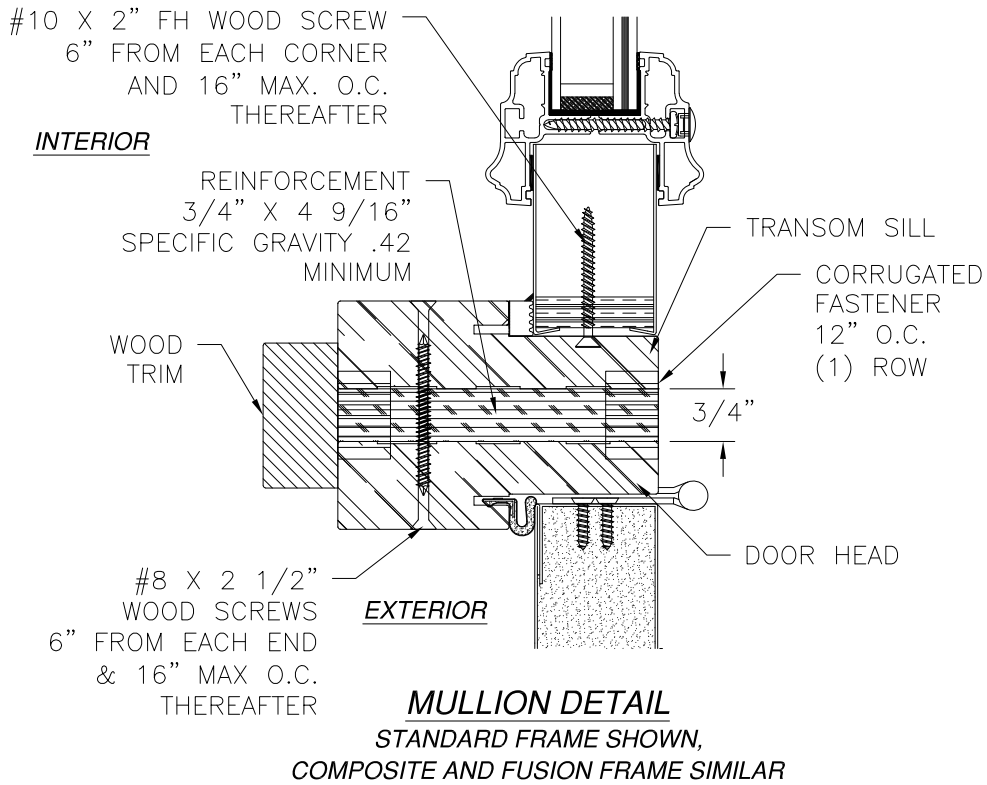
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/26/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	REVISE TO ADD PANOLOCK	11/14/2023	R.L.



SIGNED: 12/26/2023

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
I

SCALE NTS

DATE 05/23/13

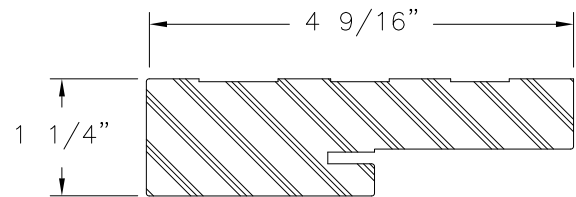
SHEET 11 OF 12

L. ROBERTO LOMAS P.E.

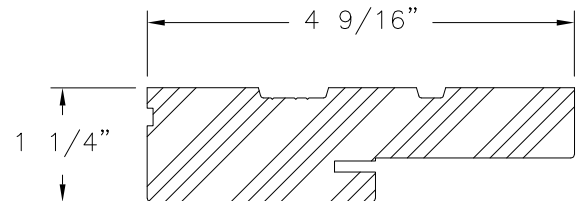
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

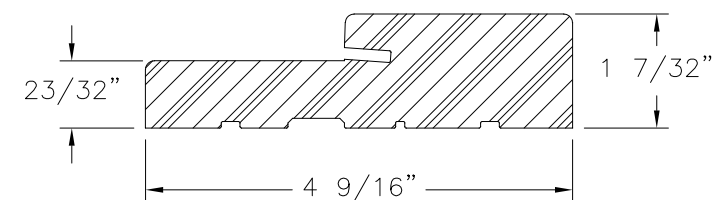
Luis R. Lomas P.E.
FL No.: 62514



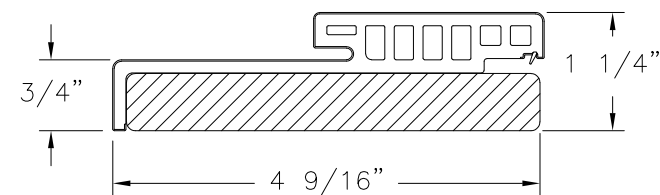
COMPOSITE FRAME PROFILE



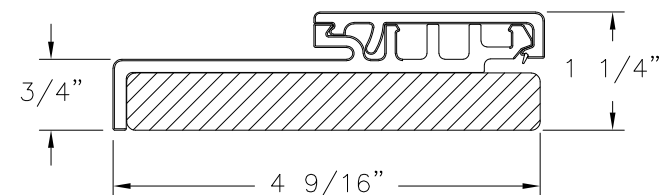
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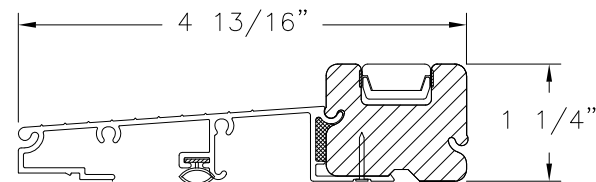
FRAMESAVER
COMPOSITE



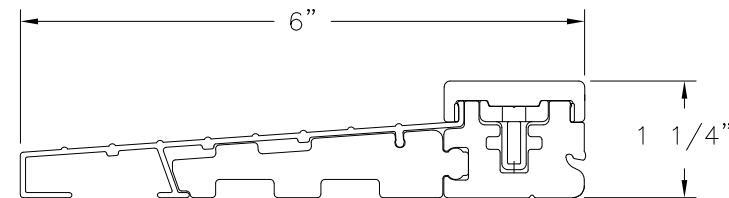
HYBRID HEAD
WOOD/COMPOSITE



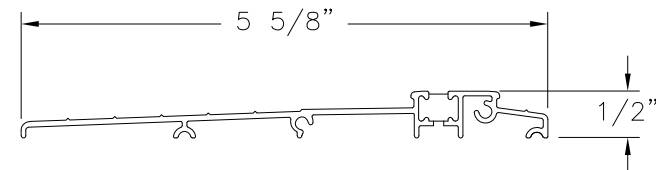
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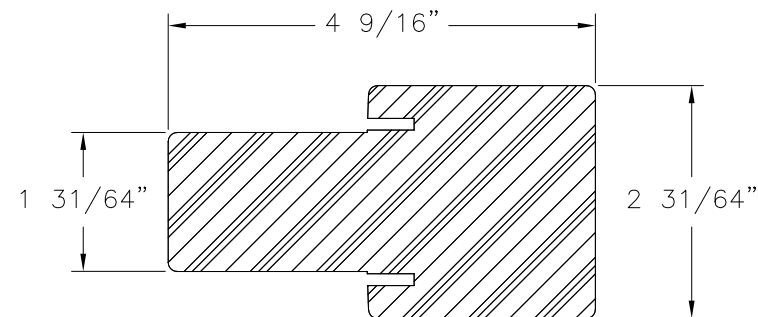
SAHARA INSWING THRESHOLD



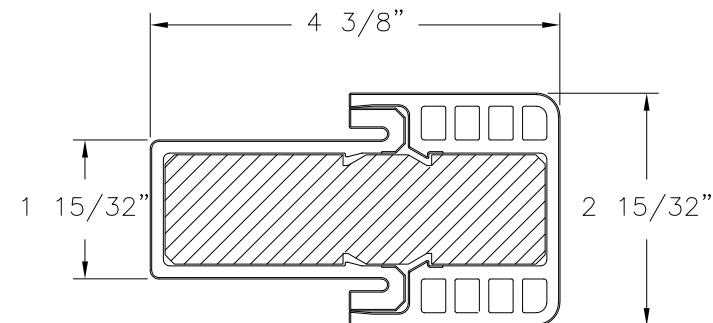
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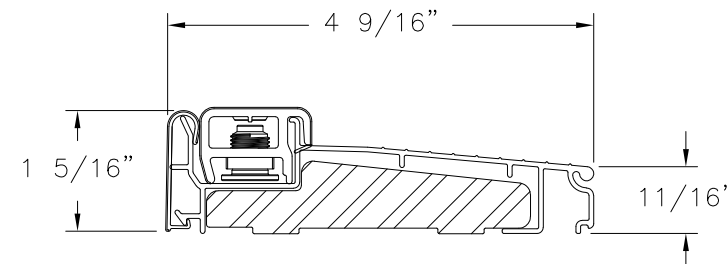
ADA THRESHOLD



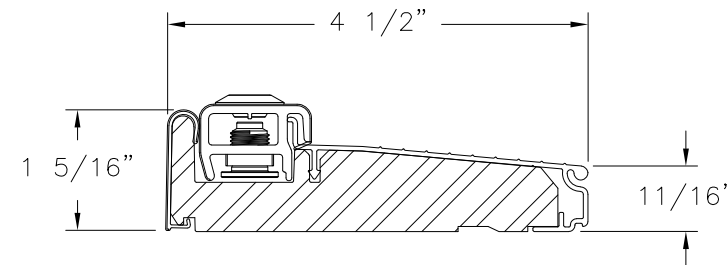
FAT BOY MULLION
COMPOSITE



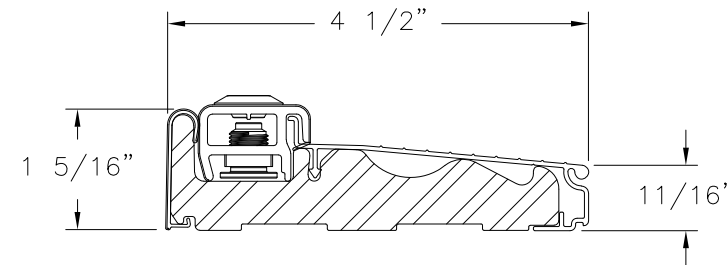
HYBRID FAT BOY MULLION
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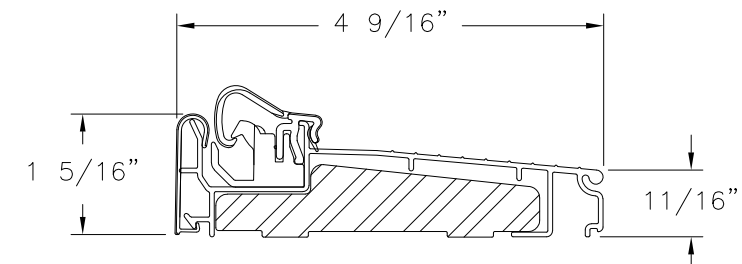
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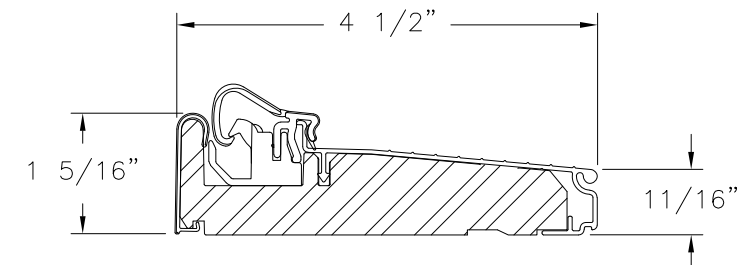
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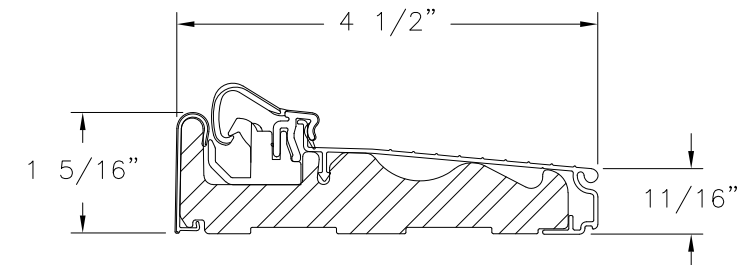
INSWING SILL ZAILH4565



INSWING SILL ZACL4565



INSWING SILL ZAC4565F



INSWING SILL ZACLH4565

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
I	REVISE TO ADD PANOLOCK	11/14/2023	R.L.

SIGNED: 12/26/2023

PROVIA, LLC. 2150 STATE ROUTE 39 WEST SUGARCREEK, OH 44681		
STEEL/FIBERGLASS INSWING OPAQUE DOUBLE DOOR W/TRANSOM - IMPACT COMPONENTS		
DRAWN: V.L.	DWG NO. 08-02039	REV I
SCALE NTS	DATE 05/23/13	SHEET 12 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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