

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	ADDED GLASS C	10/23/23	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD, METAL 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 SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
4. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
5. 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.
6. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: THERMALLY IMPROVED STEEL.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 6 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR ANCHORING THROUGH STEEL STRAP OR ANGLE INTO WOOD FRAMING OR 2X BUCK USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

14. FOR ANCHORING THROUGH STEEL STRAP OR ANGLE INTO MASONRY/CONCRETE USE 1/4” 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.
15. FOR ANCHORING THROUGH STEEL STRAP OR ANGLE INTO METAL STRUCTURE USE #12 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.
16. FOR ATTACHING STEEL STRAP OR ANGLE TO WINDOW FRAME USE #10 X 1/2” SELF DRILLING SCREWS. LOCATE ANCHORS AS SHOWN IN INSTALLATION DETAILS.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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:

18.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

18.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.

18.3. MASONRY: GROUT FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.

18.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM.
19. GEOMETRIC SHAPES ARE ALSO APPROVED. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED INSCRIBED DIMENSIONS OF APPROVED RECTANGULAR ASSEMBLY SHOWN IN SHEET 2.

SIGNED: 01/15/2024

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FENESTAR USA LLC
110 JABEZ ST., SUITE 309
NEWARK, NJ 07105

FS-56 5200I OUTSWING DOOR
IMPACT – HVHZ
NOTES

DRAWN:
A.R.

DWG NO.
08-03938

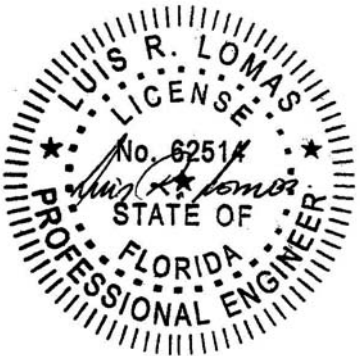
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SCALE NTS

DATE 03/28/2023

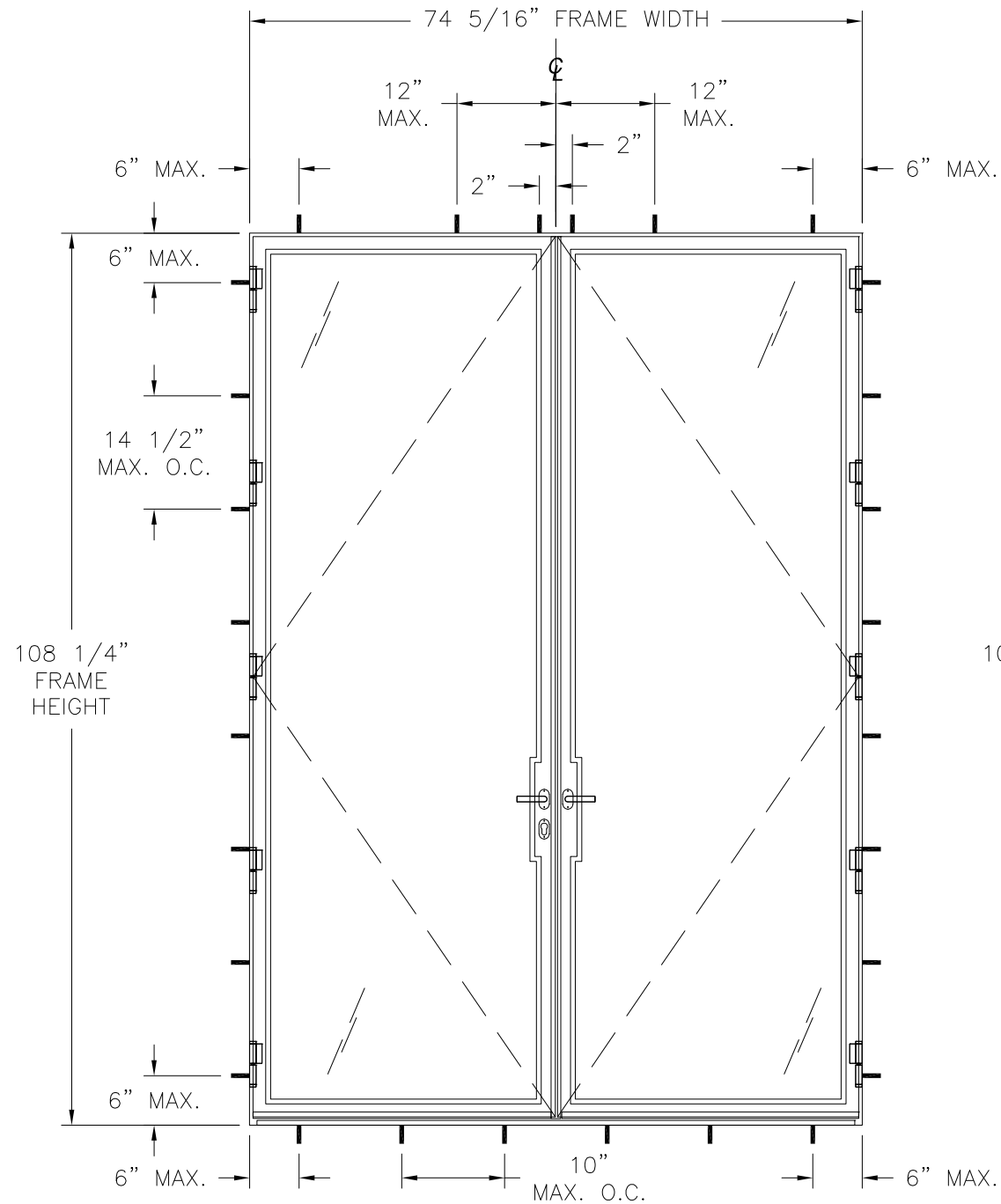
SHEET 1 OF 6

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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

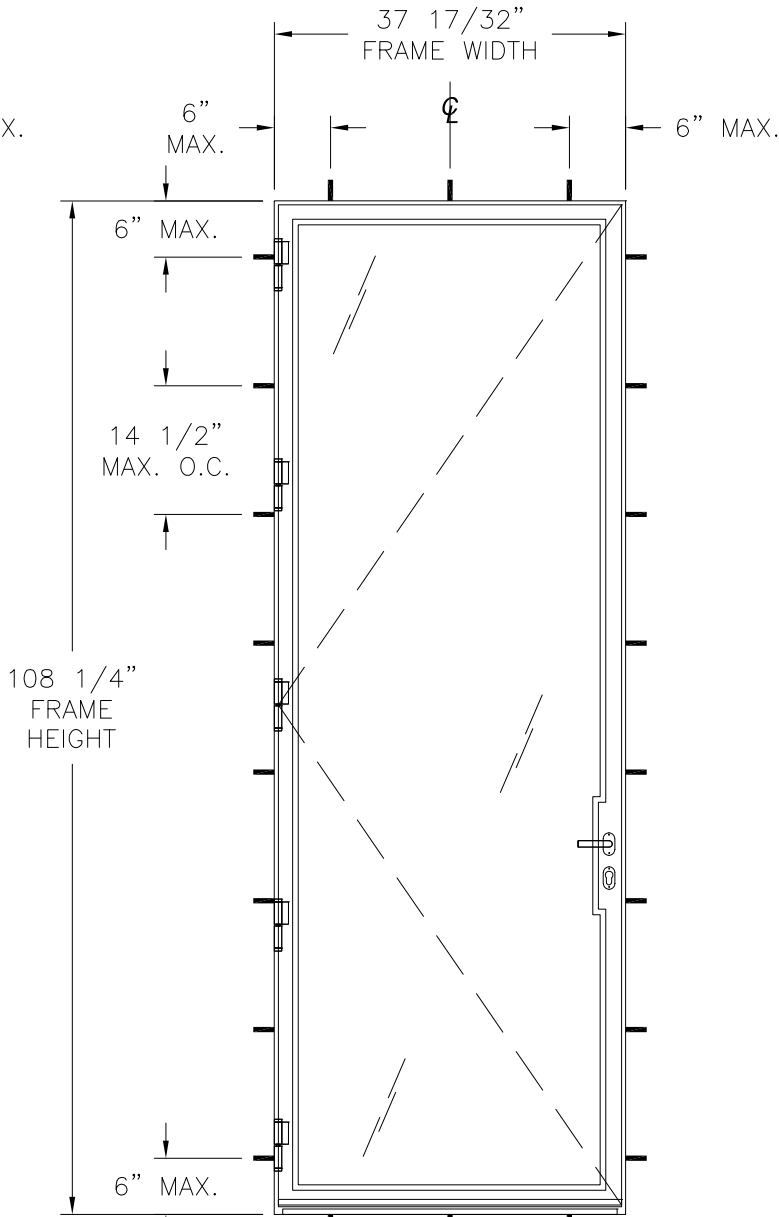


Luis R. Lomas P.E.
FL No.: 62514

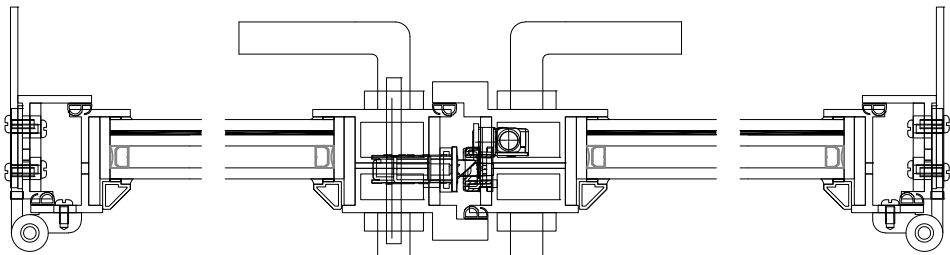
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FS-56 5200I OUTSWING FRENCH DOUBLE DOOR
EXTERIOR VIEW



FS-56 5200I OUTSWING SINGLE DOOR
EXTERIOR VIEW



HORIZONTAL CROSS SECTION

Chart #1
Rating Design pressure (psf)

Panel Height (in)	Single Panel Width (in)						
	24.00	30.00	33.00	36.00	37.50	42.00	45.00
80.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0
90.00	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96.00	60.0	60.0	60.0	60.0	60.0	60.0	59.9
102.00	60.0	60.0	60.0	60.0	60.0	58.2	55.3
106.75	60.0	60.0	60.0	60.0	60.0	54.2	51.0
108.00	60.0	60.0	60.0	60.0	57.9	52.3	49.3
114.00	60.0	60.0	55.1	50.8	49.0	44.2	41.6
120.00	60.0	51.5	47.1	43.4	41.8	37.7	35.4
126.00	55.0	44.4	40.5	37.4	36.0	32.4	30.5
132.00	47.8	38.5	35.2	32.4	31.2	28.1	26.4

- NOTES:
- PANEL SIZE: 37 1/2" X 106 3/4"
 - D.L.O. SIZE: 32 1/4" X 102 9/16"

DP RATING	IMPACT RATING
±60.0PSF	LARGE & SMALL MISSILE
MISSILE LEVEL D, WIND ZONE 4 AND HVHZ OTHER SIZES APPROVED, SEE CHART #1 THIS SHEET	

HARDWARE SCHEDULE	
A.	(5 PER LEAF) HINGES AT JAMB, 7" FROM EACH CORNER AND SPACED 23 1/2" ON CENTER
B.	(1) MULTI-POINT LOCK WITH HANDLE AND DEADBOLT AT PRIMARY VENT LOCK STILE
C.	(2) SHOOT BOLTS AT TOP AND BOTTOM OF SECONDARY LEAF LOCK STILE

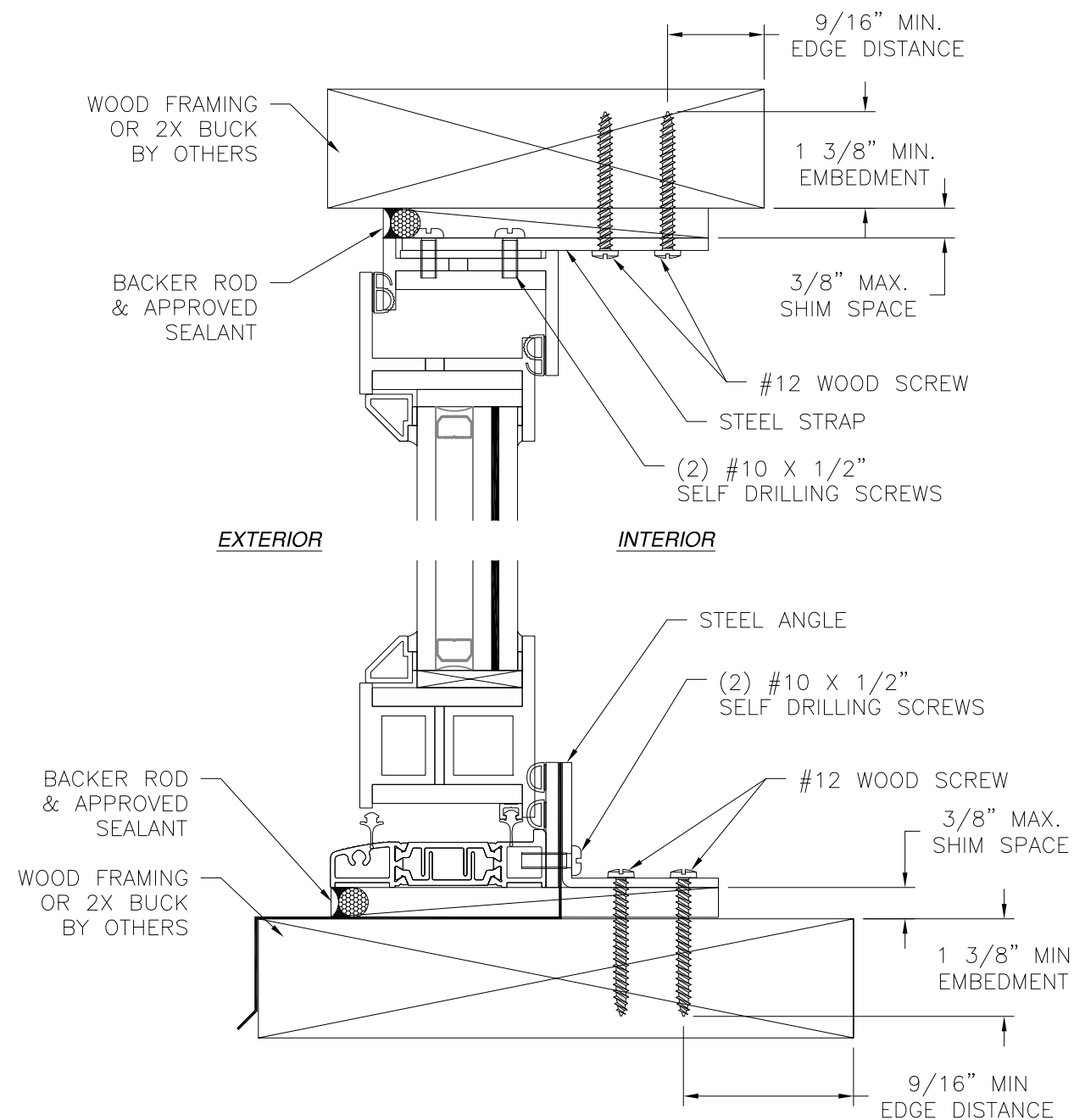
FENESTAR USA LLC 110 JABEZ ST., SUITE 309 NEWARK, NJ 07105		
FS-56 5200I OUTSWING DOOR IMPACT - HVHZ ELEVATION		
DRAWN: A.R.	DWG NO. 08-03938	REV A
SCALE NTS	DATE 03/28/2023	SHEET 2 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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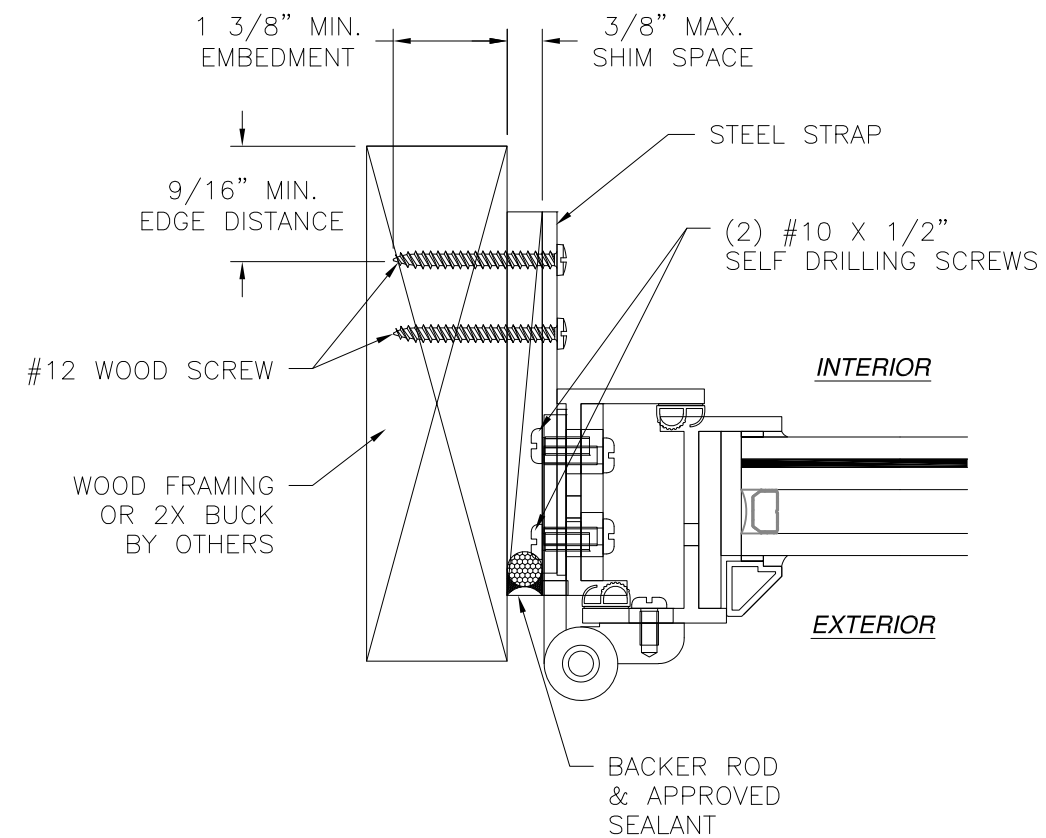


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

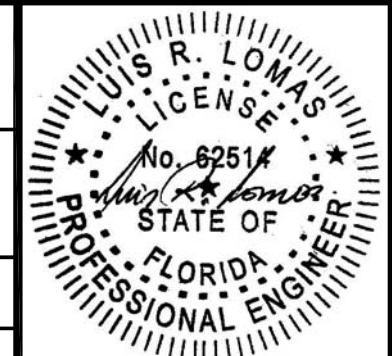


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

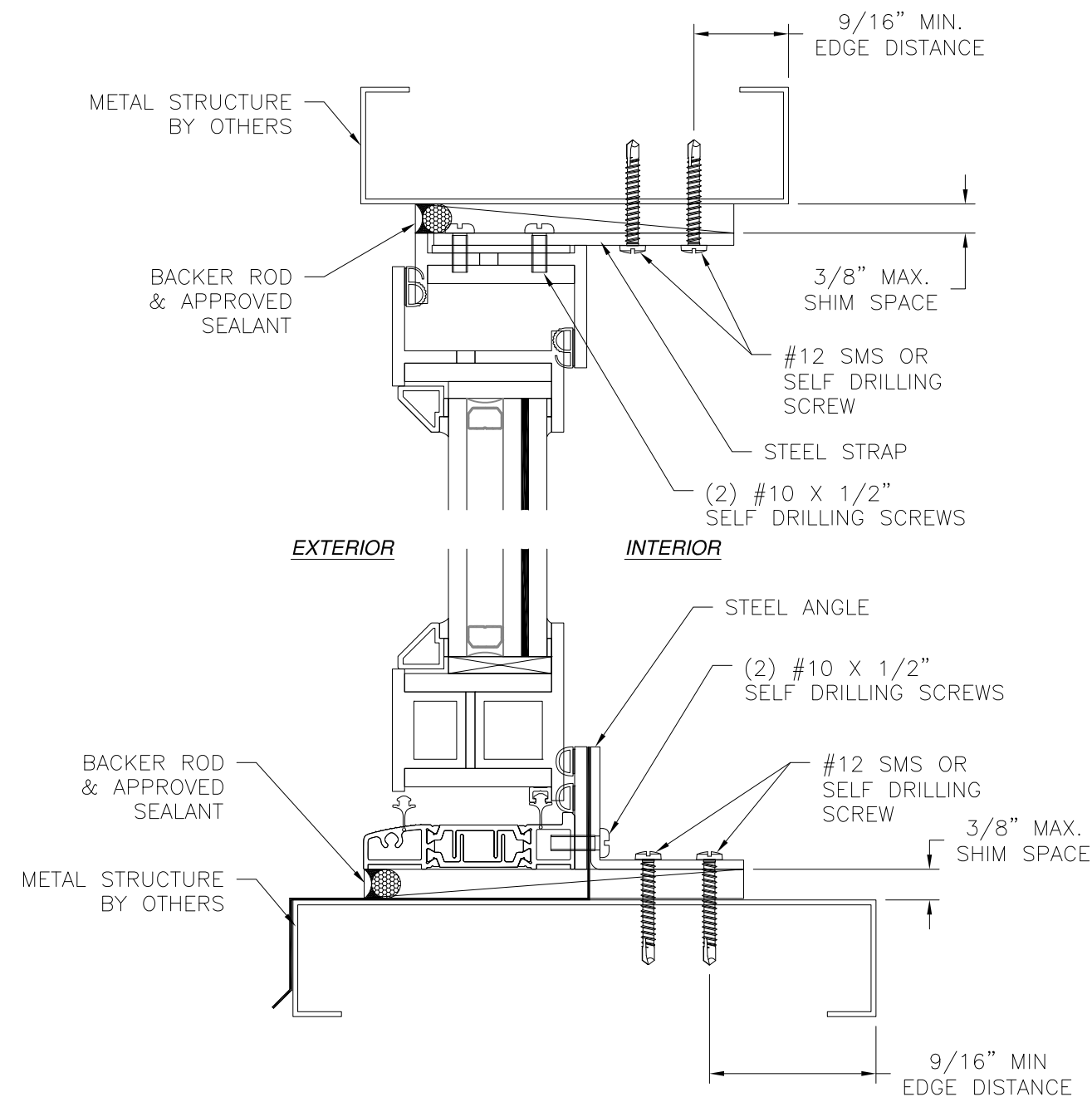
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

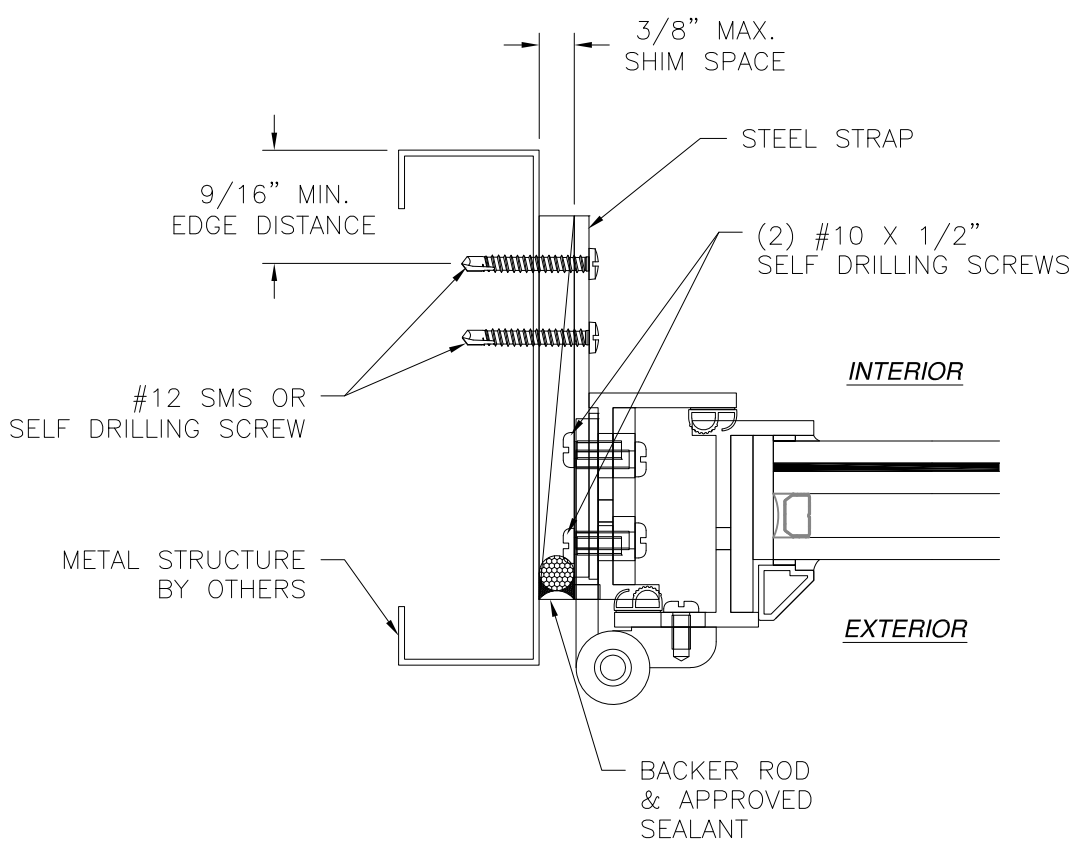


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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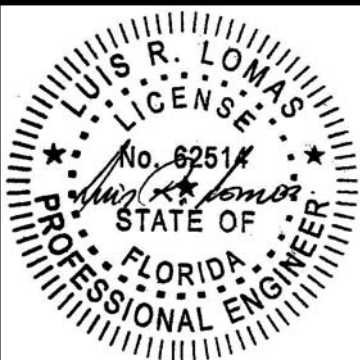
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NTS

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SHEET
4 OF 6

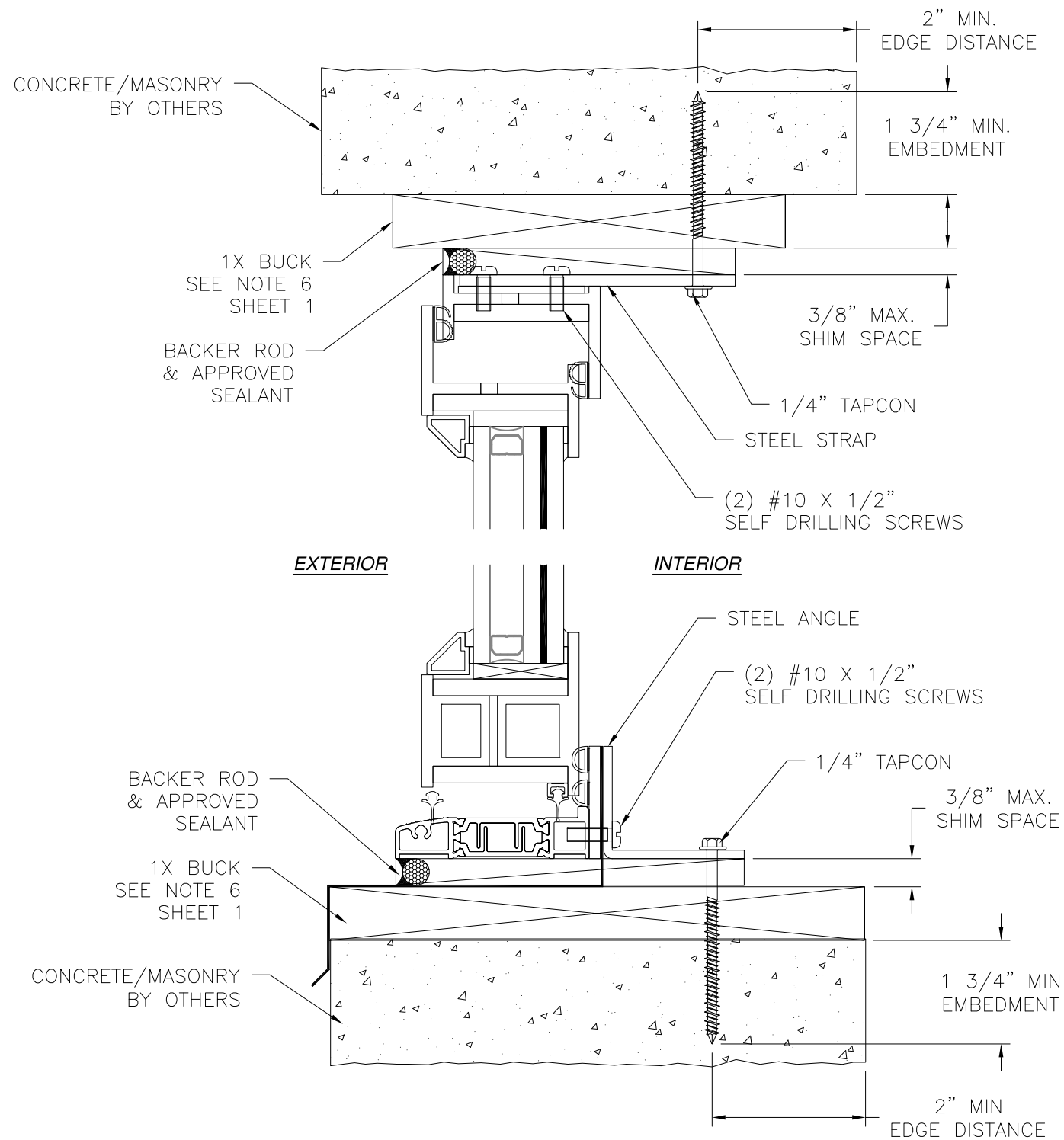
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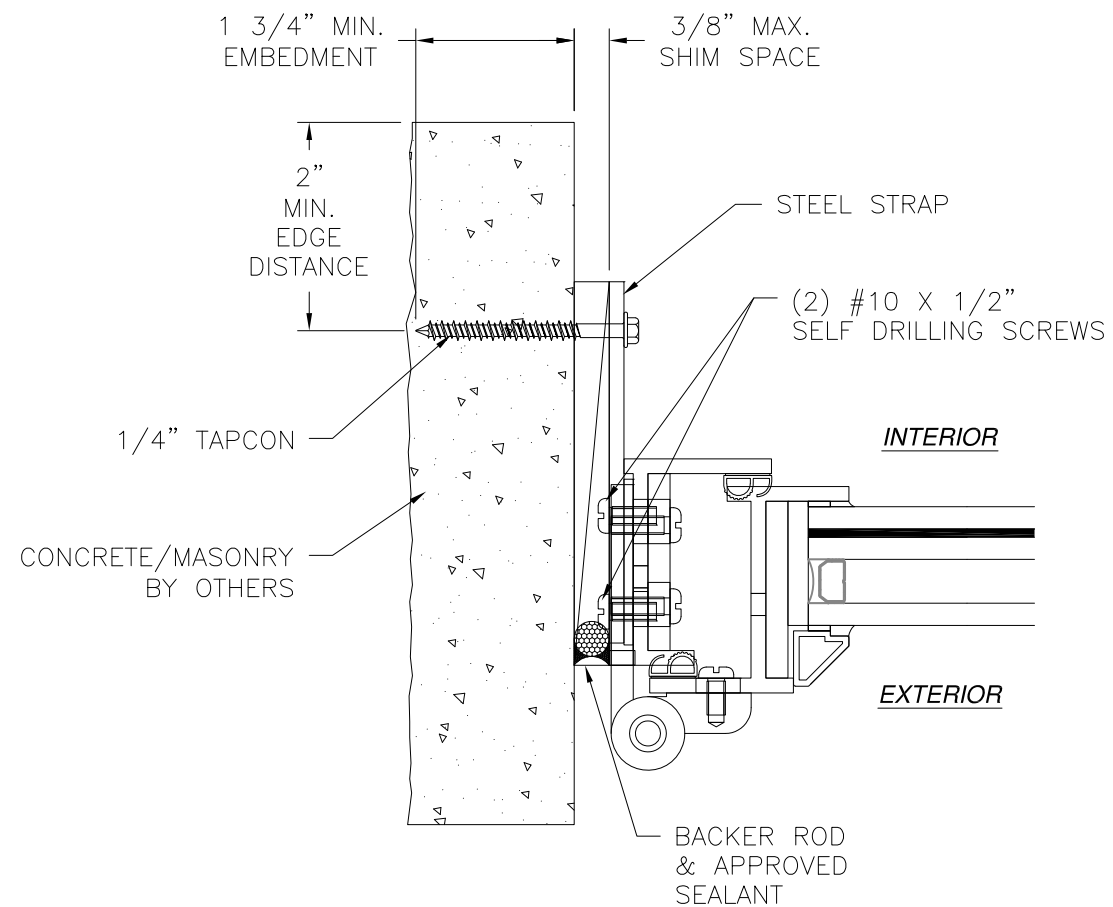
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO JAMB
INSTALLATION DETAILS

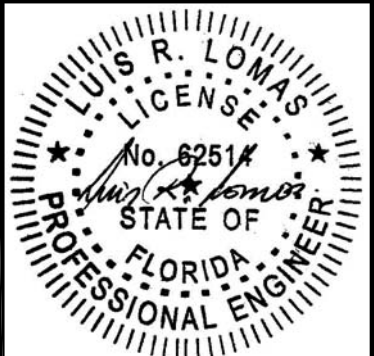
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER
TO HEAD AND SILL INSTALLATION DETAILS

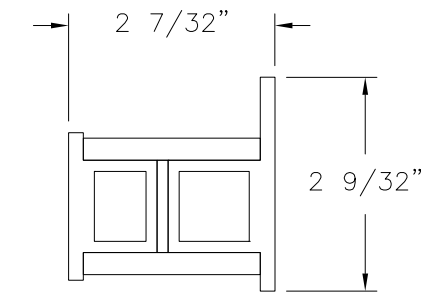
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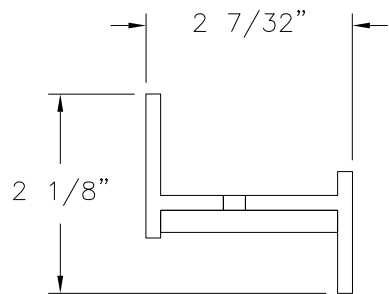


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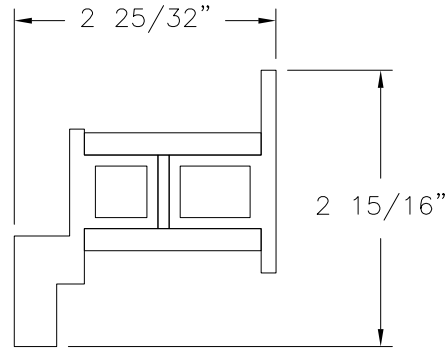
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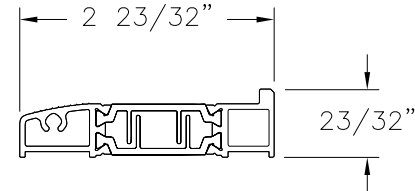
SILL FRAME
THERMALLY BROKEN STEEL



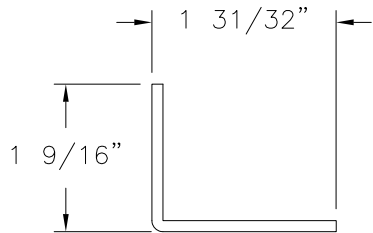
HEAD AND JAMB FRAME
THERMALLY BROKEN STEEL



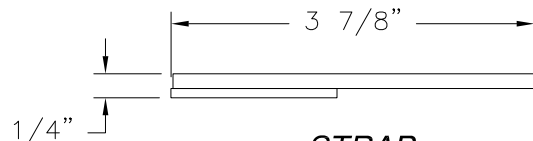
MEETING STILE
THERMALLY BROKEN STEEL



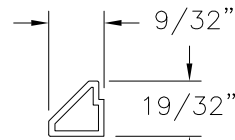
SILL COVER
THERMALLY BROKEN STEEL



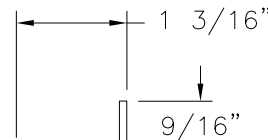
ANGLE
STEEL



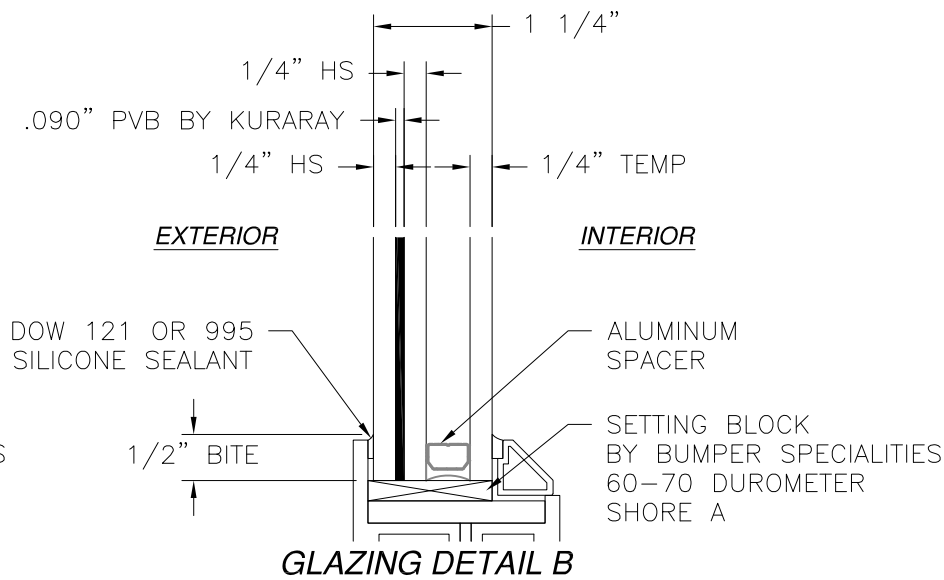
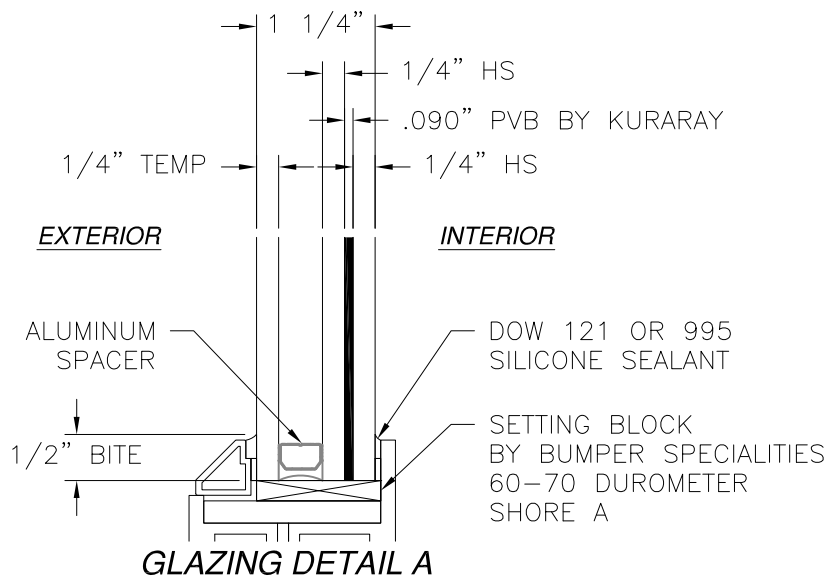
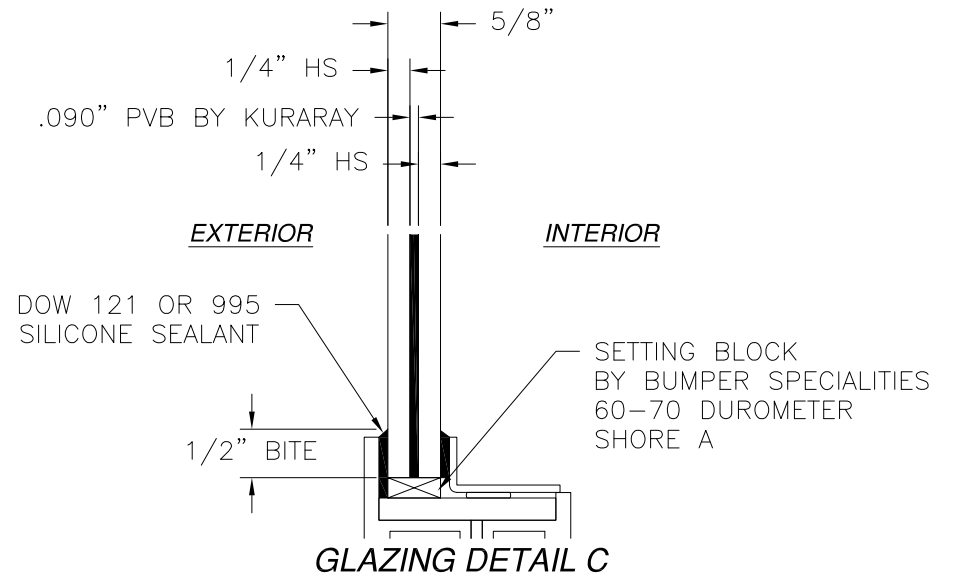
STRAP
STEEL



GLAZING BEAD
6063-T5 ALUMINUM .059" THICK



ANGLE
6063-T5 ALUMINUM .08" THICK



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