

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TO ADD PVC FRAME	04/22/2025	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 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 NEEDED 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: EXTRUDED ALUMINUM 6063-T6.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. 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.
16. FOR ANCHORING TO PVC FRAME USE 1/4" SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND 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:
 - A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42
 - B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" 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: 05/01/2025

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WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED WINDOW
NON-IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08-04126A

REV
A

SCALE NTS

DATE 02/27/2025

SHEET 1 OF 11

L. ROBERTO LOMAS P.E.
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LUIS R. LOMAS

LICENSE

No. 62514

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.

Chart #1

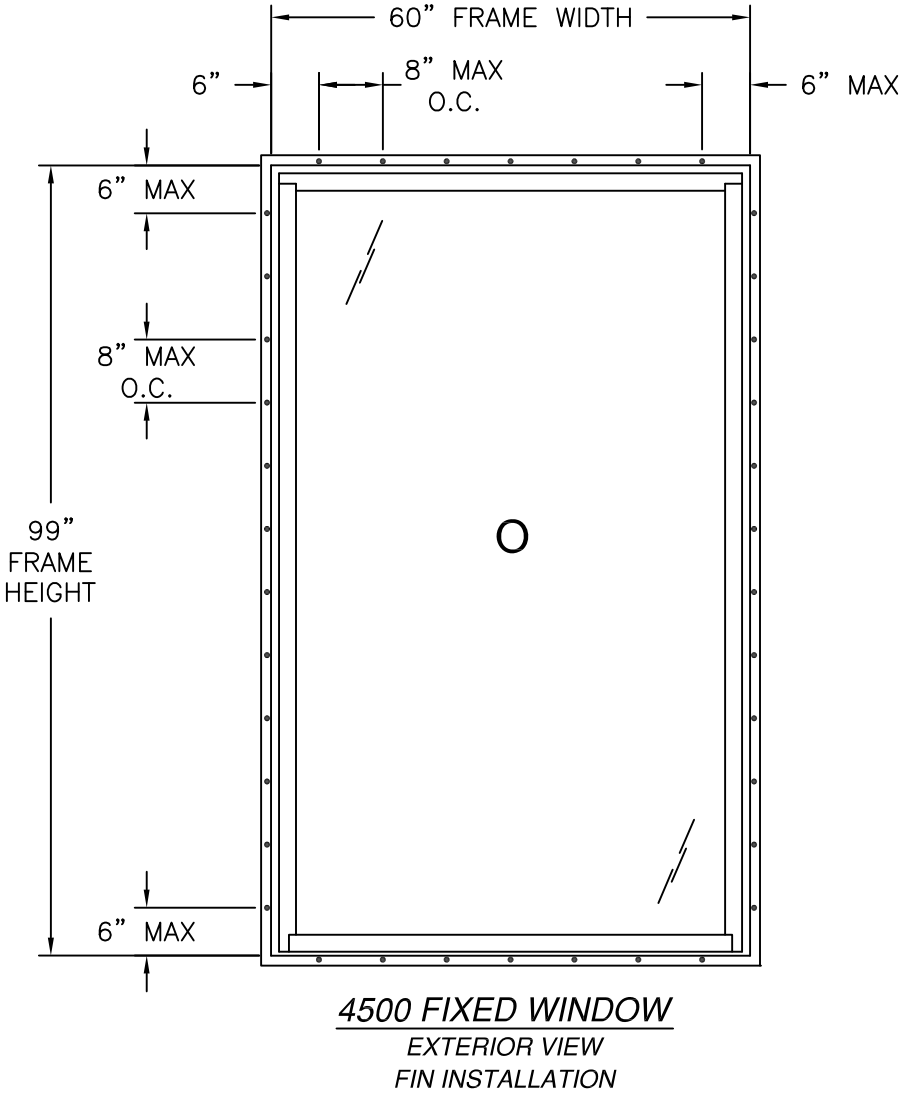
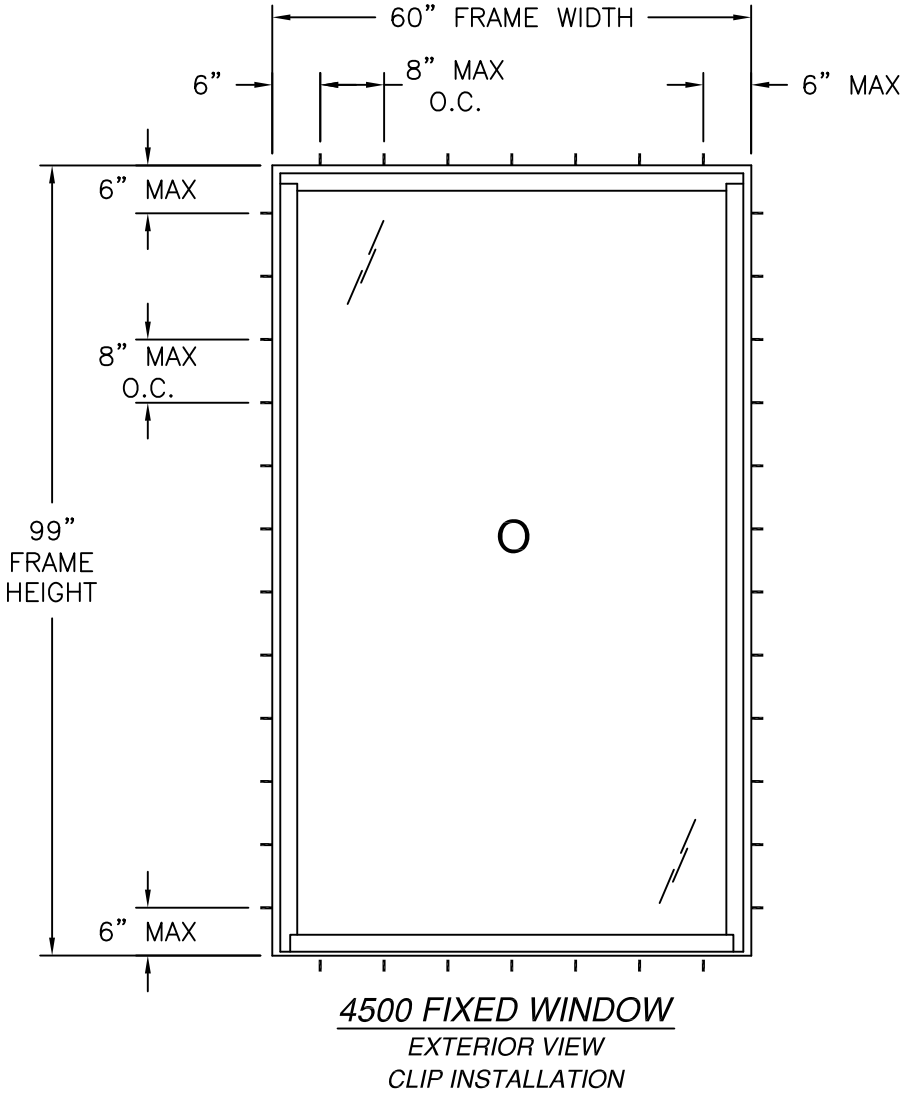
Rating for units installed where water resistance is required (psf)

Frame Height (in)	Frame width (in)															
	42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
30.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
36.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
42.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
48.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
54.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
60.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
66.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0
72.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	98.2
78.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	97.6	80.0	90.7
84.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	98.2	80.0	90.7	80.0	84.2
90.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	91.7	80.0	84.6	78.6	78.6
96.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	93.8	80.0	85.9	79.3	79.3	73.7	73.7
99.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	100.0	80.0	90.9	80.0	83.3	76.9	76.9	71.4	71.4

Chart #2

Rating for units installed where water resistance is NOT required (psf)

Frame Height (in)	Frame width (in)															
	42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	98.2
78.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	97.6	97.6	90.7	90.7
84.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.2	98.2	90.7	90.7	84.2	84.2
90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.7	91.7	84.6	84.6	78.6	78.6
96.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.8	93.8	85.9	85.9	79.3	79.3	73.7	73.7
99.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.9	90.9	83.3	83.3	76.9	76.9	71.4	71.4



NOTES:
1. D.L.O.: 55 1/2" X 94 1/2"

DESIGN PRESSURE RATING	IMPACT RATING
+80.0/-100.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS REQUIRED
REFER TO CHART #1 SHEET 3, FOR OTHER SIZES AND RATINGS

DESIGN PRESSURE RATING	IMPACT RATING
±100.0PSF	NONE

WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
REFER TO CHART #2 SHEET 3, FOR OTHER SIZES AND RATINGS

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED WINDOW
NON-IMPACT
ELEVATION

DRAWN:
A.R.

DWG NO.
08-04126A

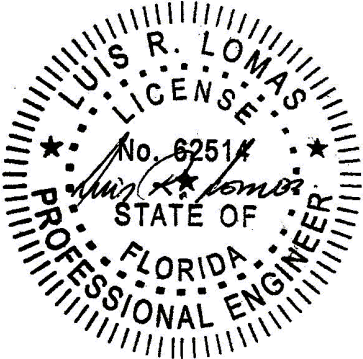
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DATE 02/27/2025

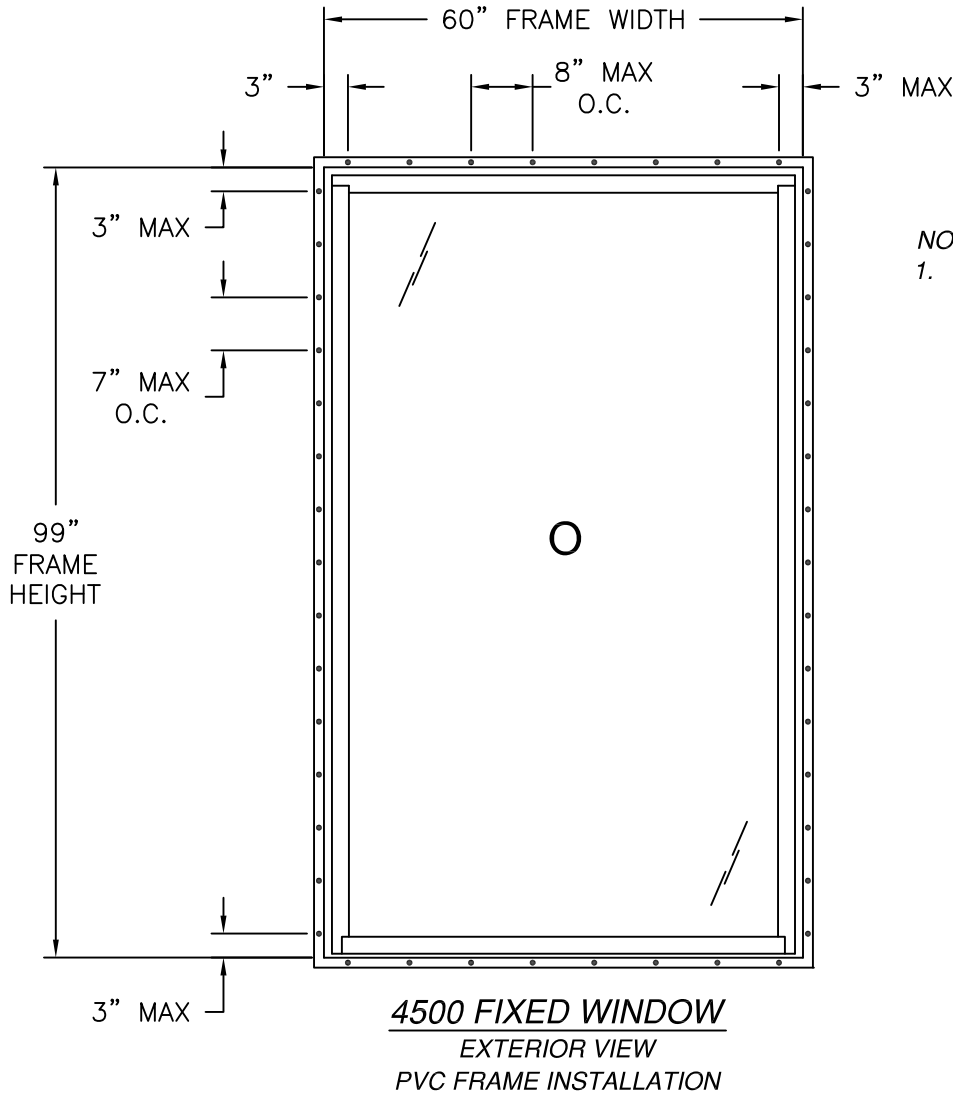
SHEET 2 OF 11

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A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.



NOTES:
1. D.L.O.: 55 1/2" X 94 1/2"

Chart #3
Rating for units installed with PVC frame

Frame Height (in)	Frame width (in)															
	42.0		48.0		54.0		60.0		66.0		72.0		78.0		84.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
30.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
48.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
54.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
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66.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
72.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	58.9
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.6	58.6	54.4	54.4
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.9	58.9	54.4	54.4	50.5	50.5
90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	55.0	55.0	50.8	50.8	47.1	47.1
96.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.3	56.3	51.6	51.6	47.6	47.6	44.2	44.2
99.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	54.5	54.5	50.0	50.0	46.2	46.2	42.9	42.9

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	NONE
FOR PVC FRAME INSTALLATION ONLY	

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION
217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED WINDOW
NON-IMPACT
ELEVATION AND DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-04126A

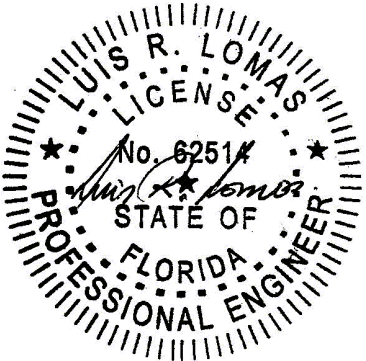
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DATE
02/27/2025

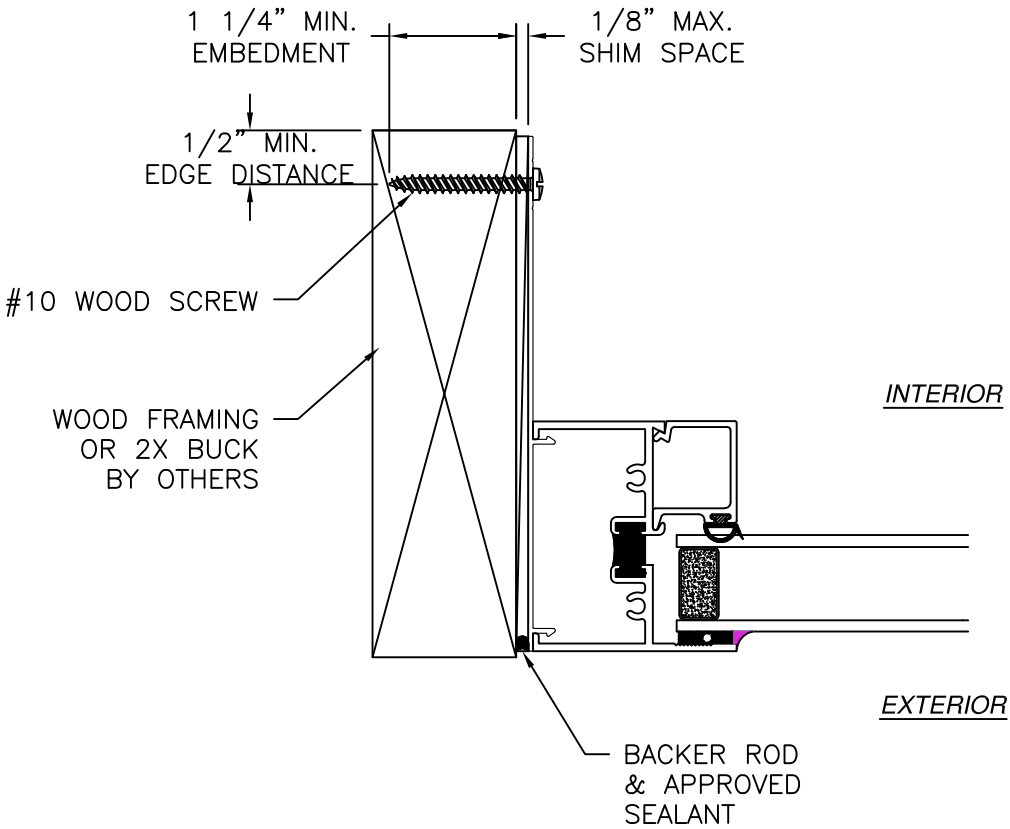
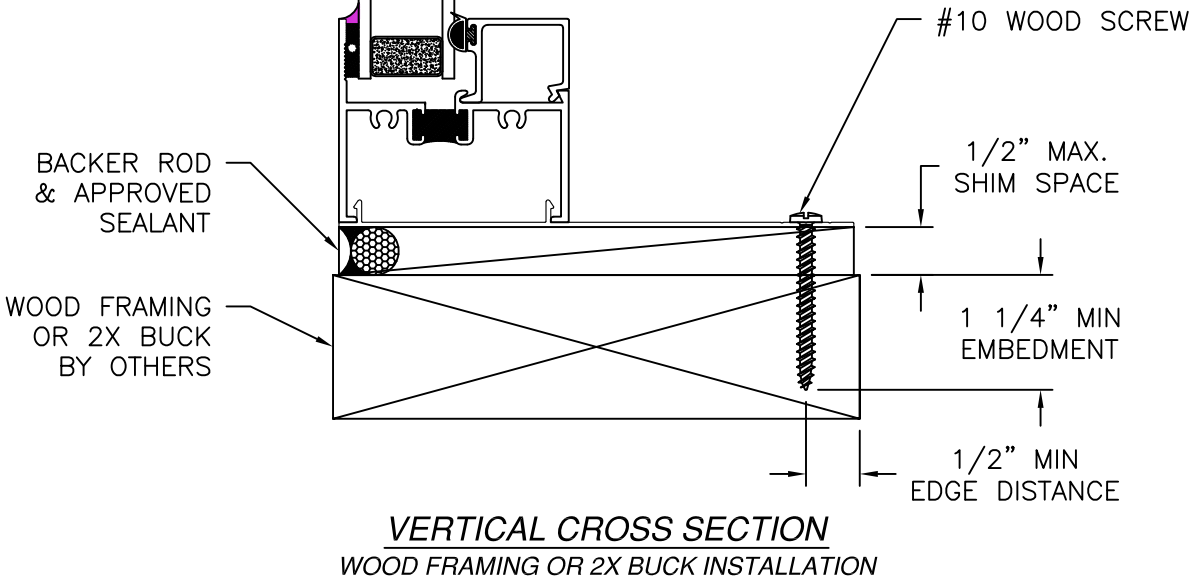
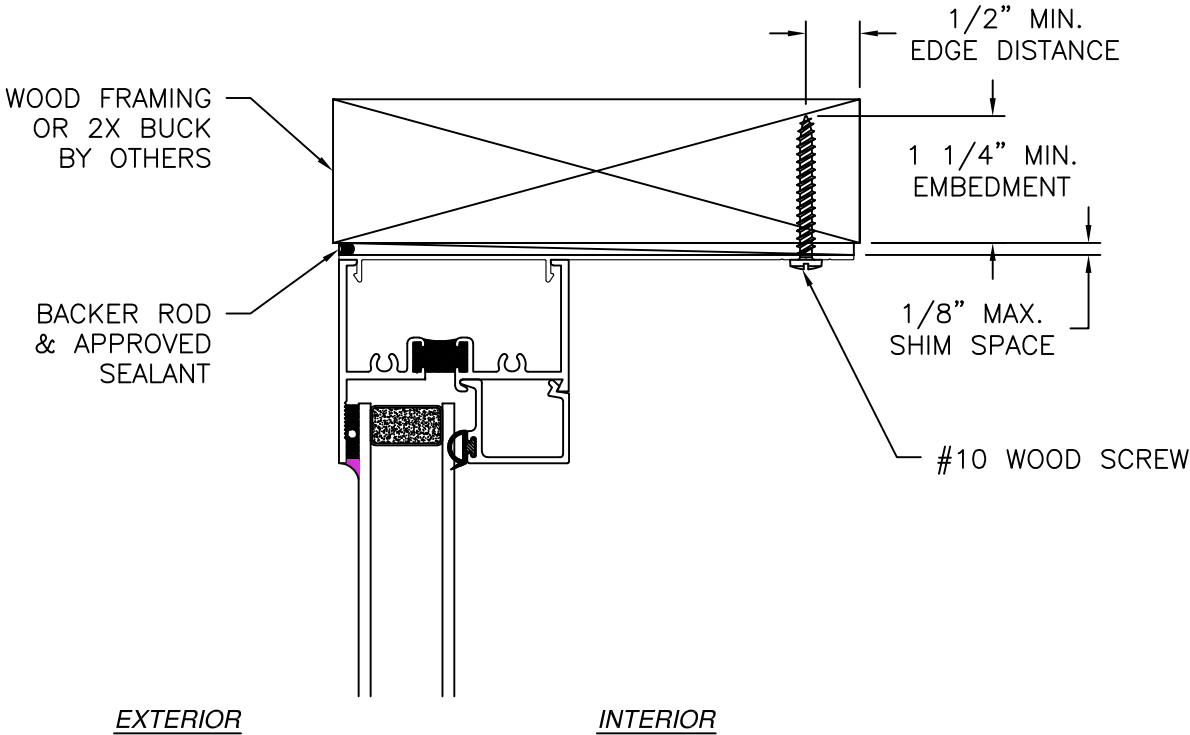
SHEET
3 OF 11

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.



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

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION

217 STOVER ROAD

CHARLEVOIX, MI 49720

4500 FIXED WINDOW

NON-IMPACT

INSTALLATION DETAILS

DRAWN:

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DWG NO.

08-04126A

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02/27/2025

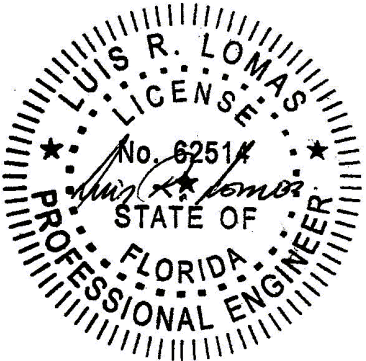
SHEET

4 OF 11

L. ROBERTO LOMAS P.E.

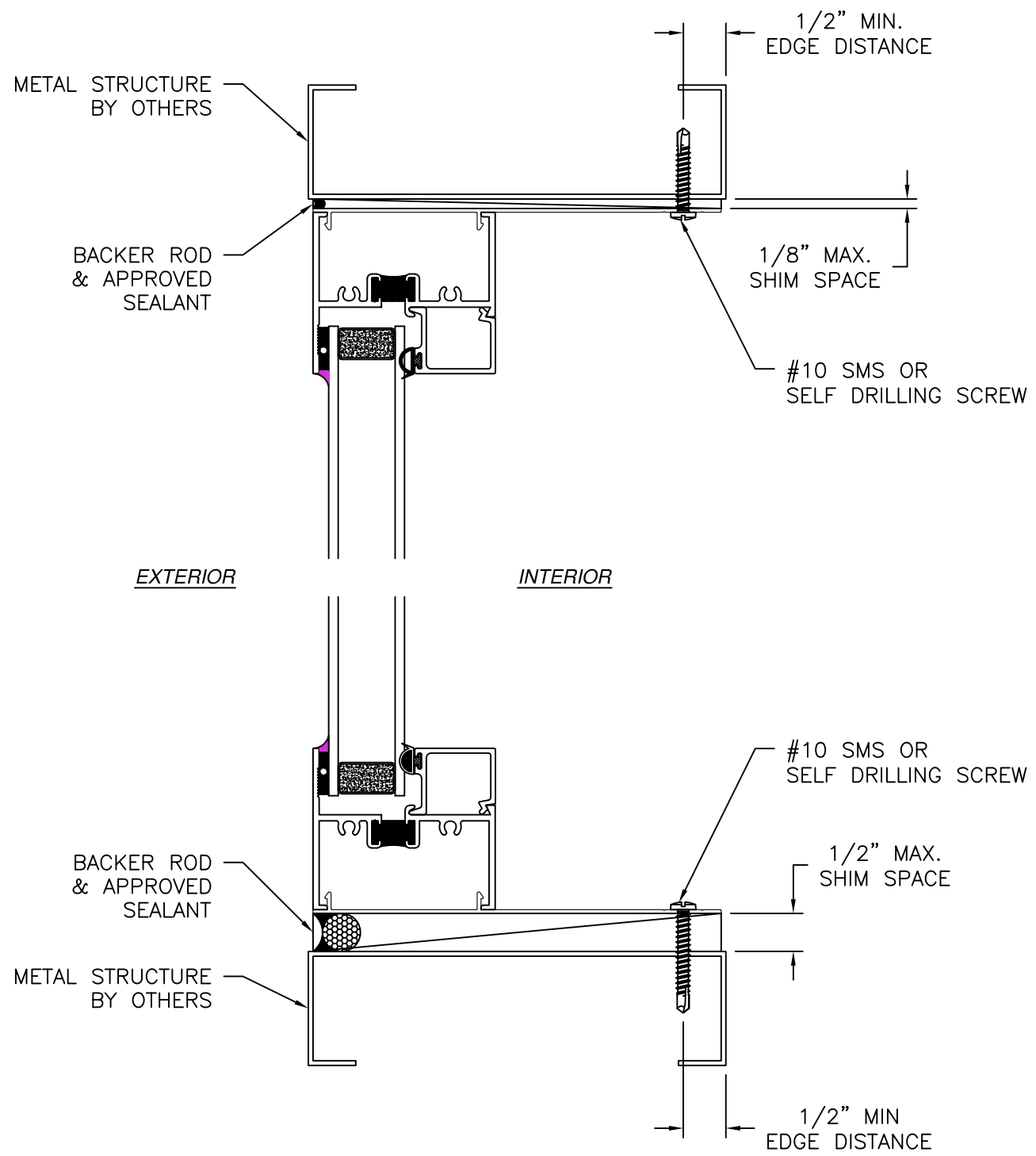
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

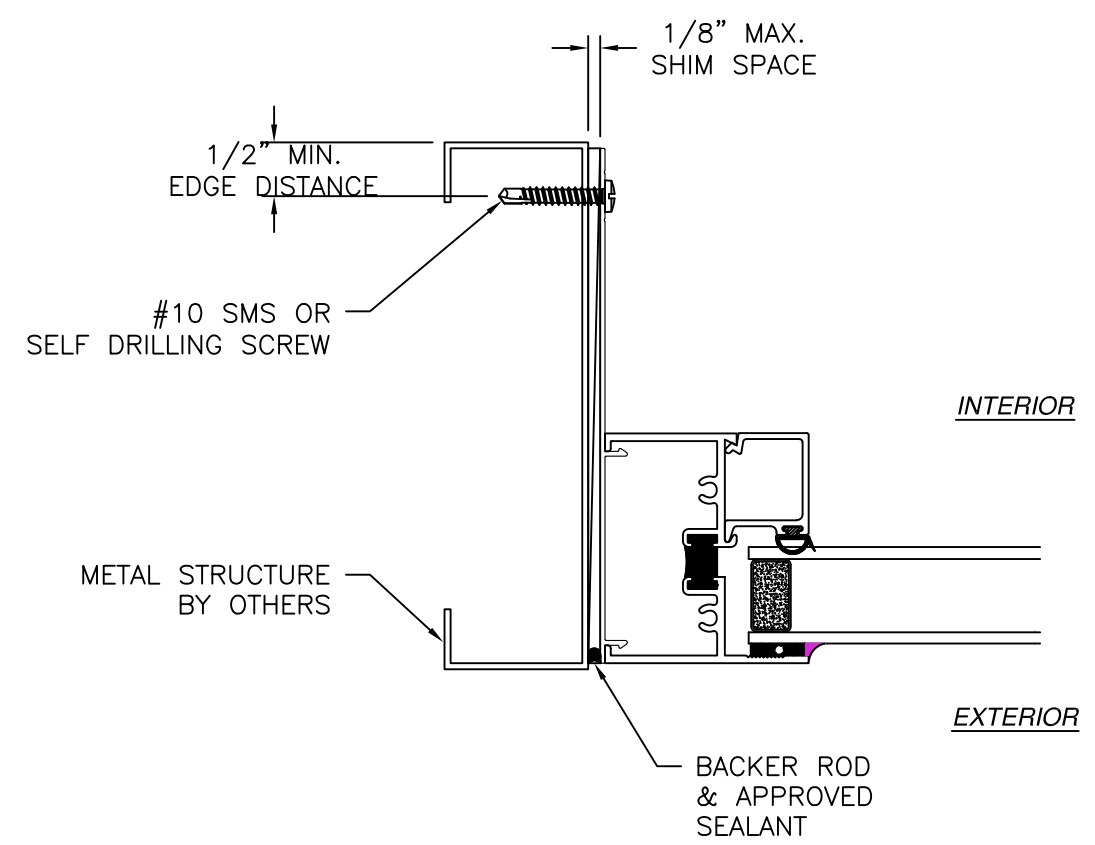


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

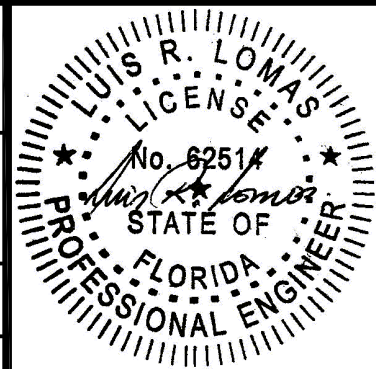


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

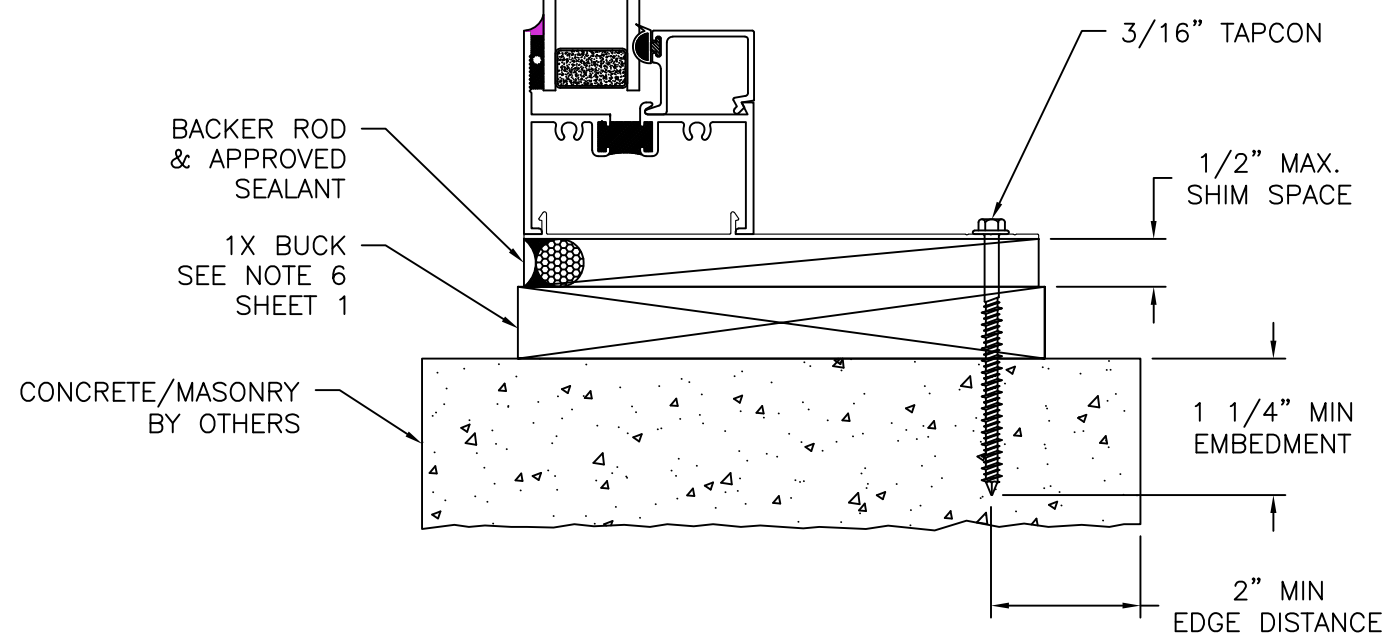
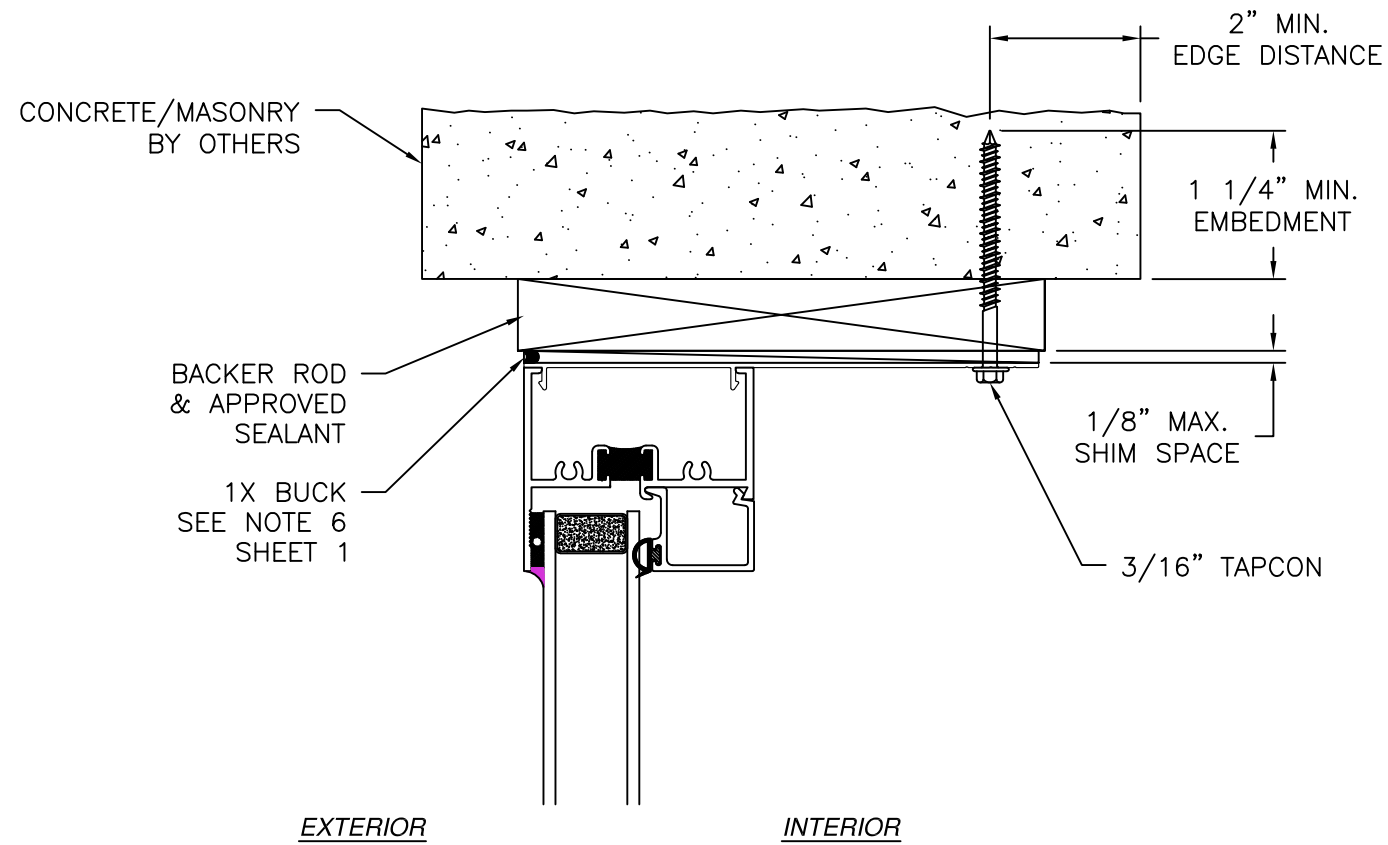
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 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 05/01/2025

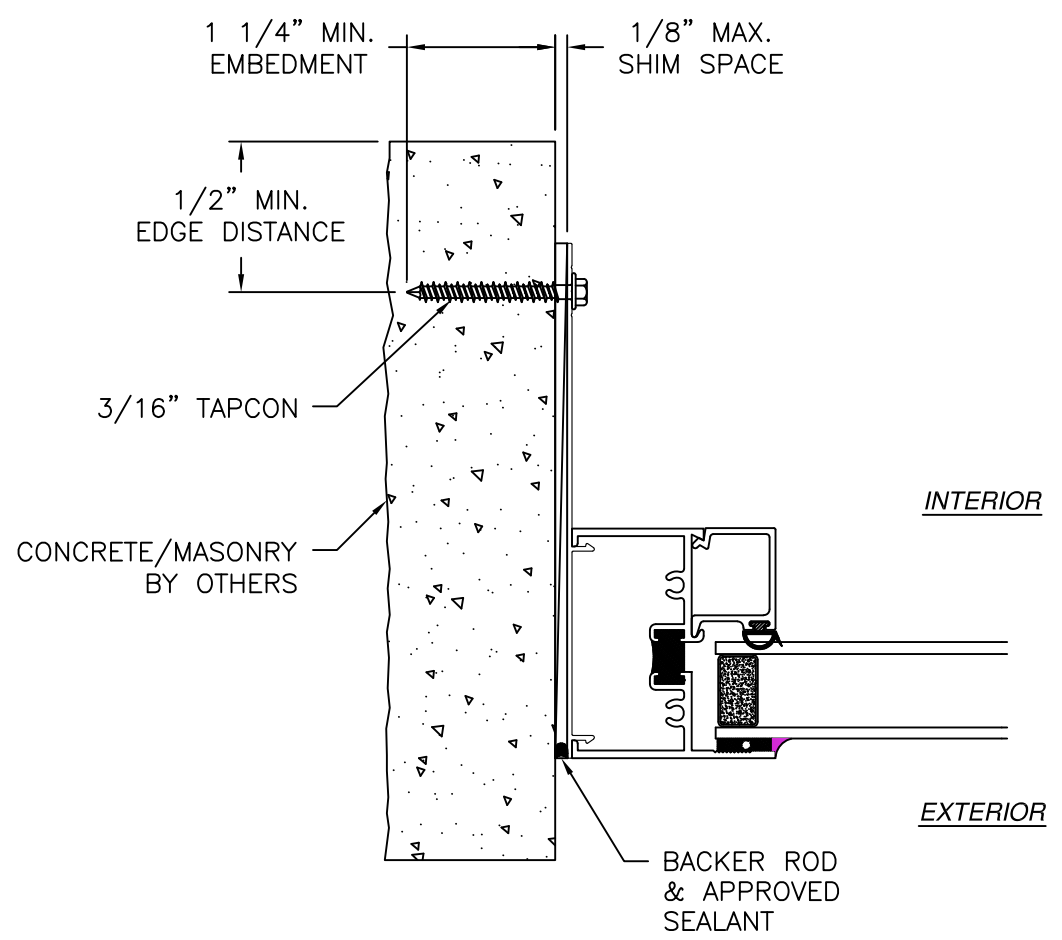
WOJAN WINDOW & DOOR CORPORATION		
217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 5 OF 11
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Luis R. Lomas P.E.
FL No.: 62514



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



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

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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4500 FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 6 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 05/01/2025

LUIS R. LOMAS

LICENSE

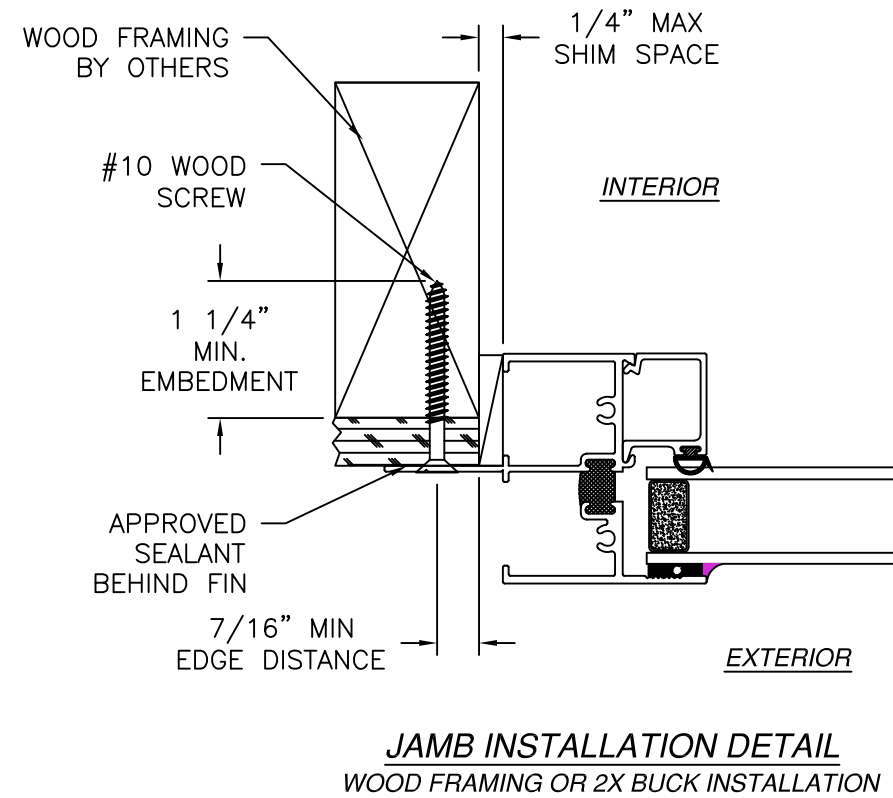
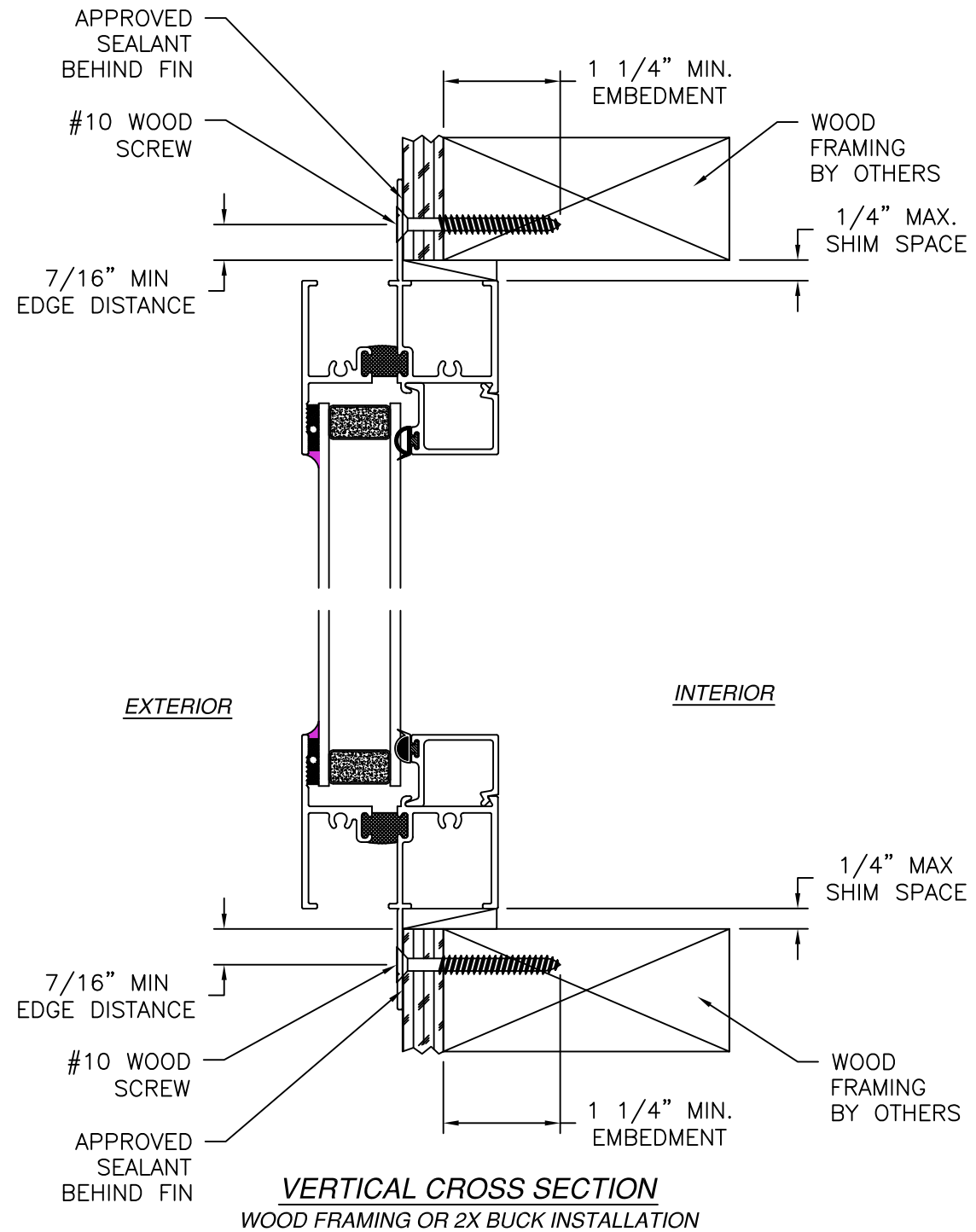
No. 62514

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

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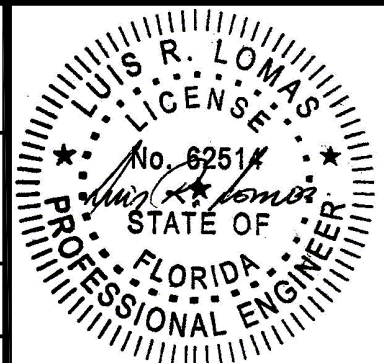


- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

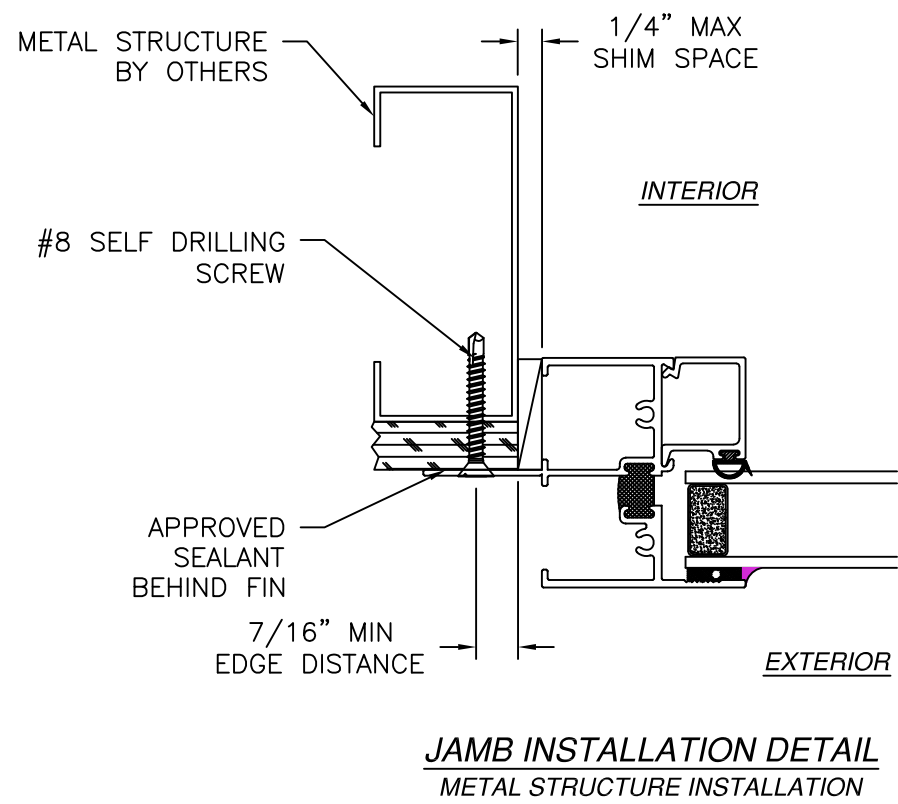
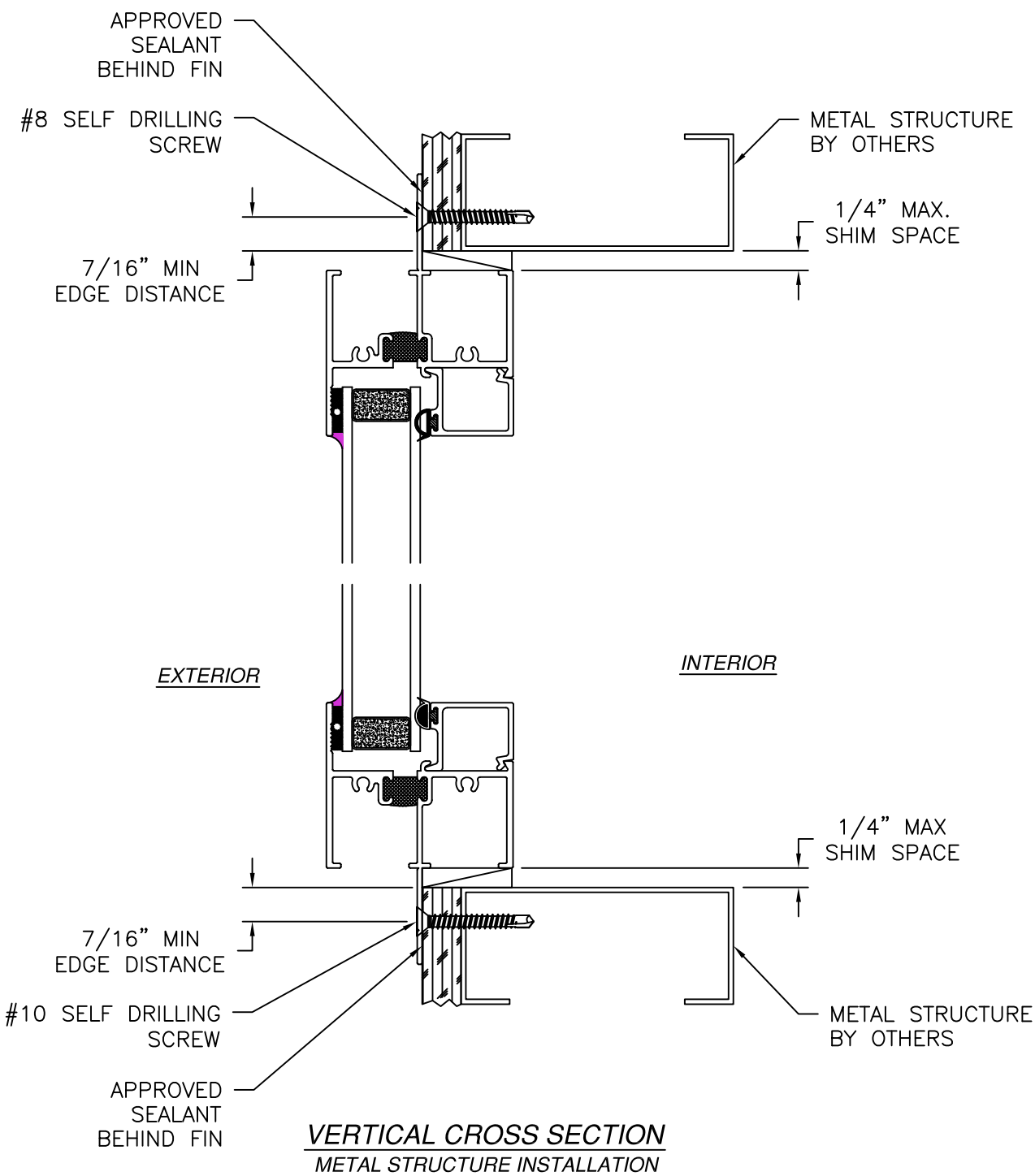
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 7 OF 11
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



- 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

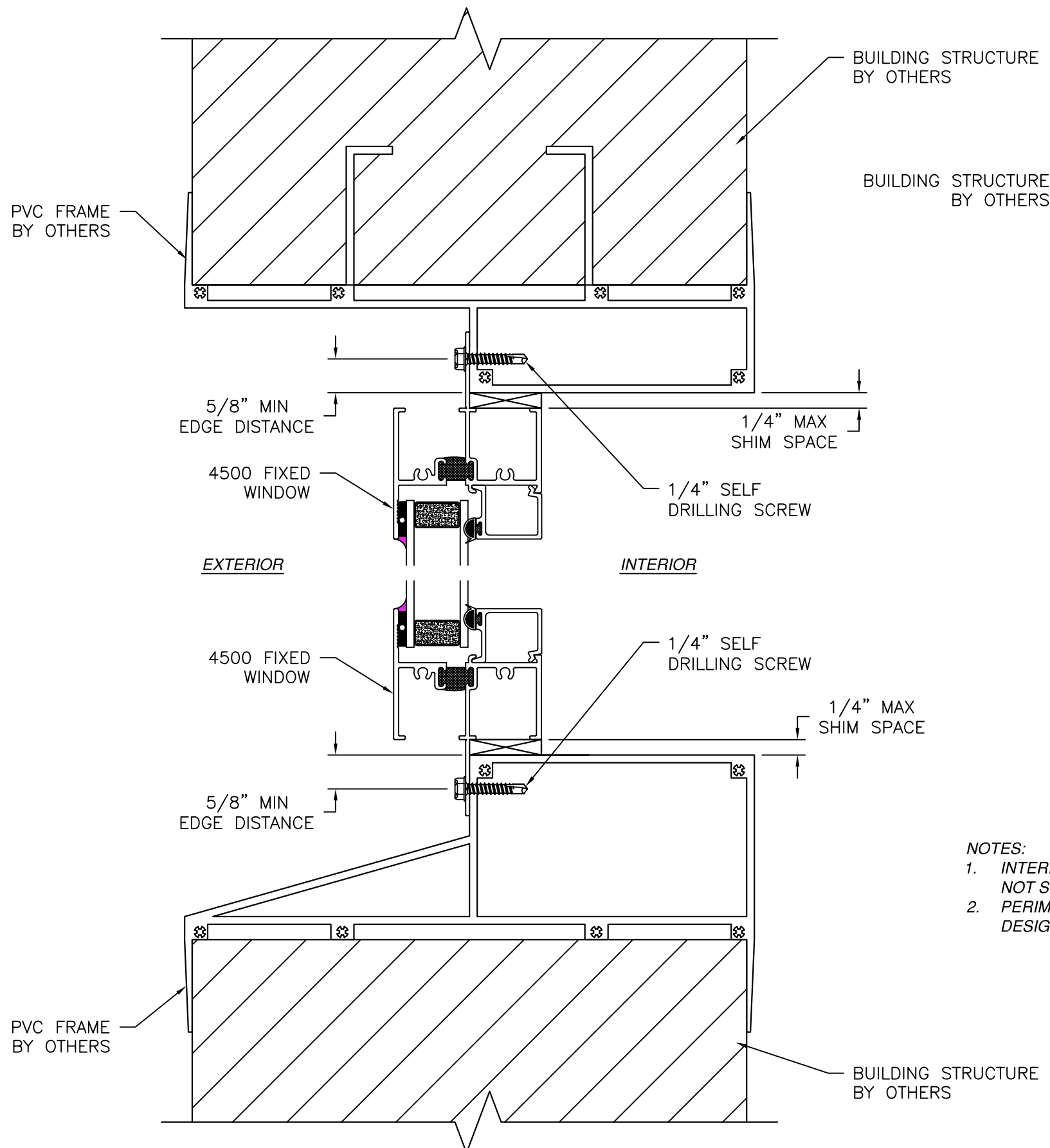
REVISIONS			
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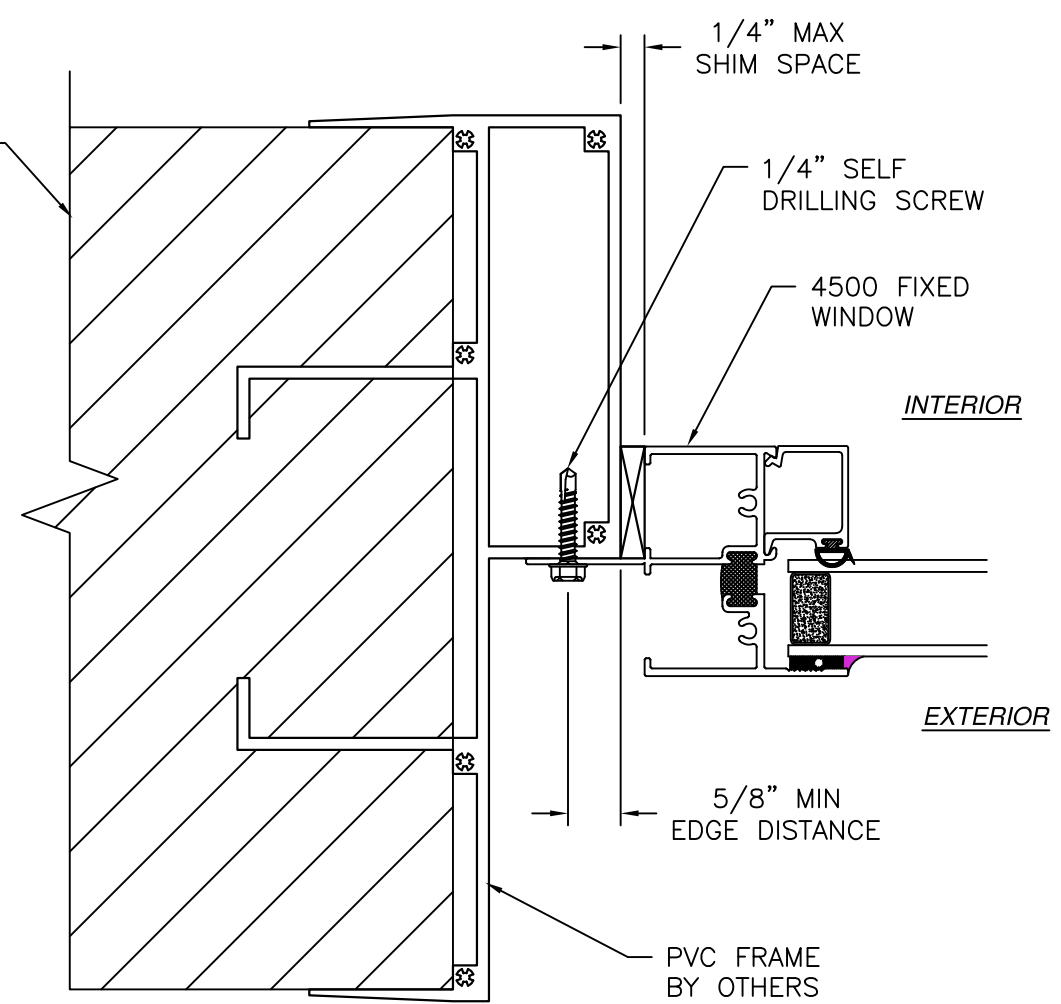
WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 8 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.



VERTICAL CROSS SECTION

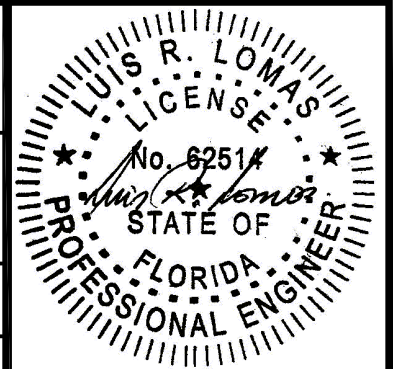


JAMB INSTALLATION DETAIL

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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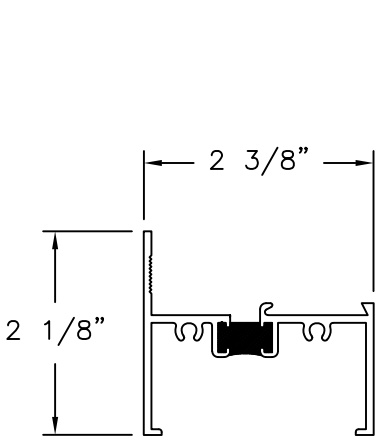
SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION		
217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED WINDOW NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 9 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

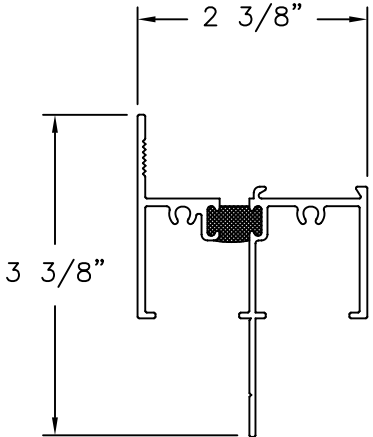


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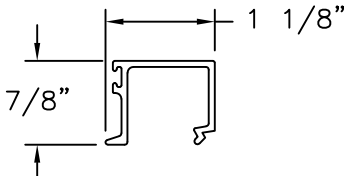
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISE TO ADD PVC FRAME	04/22/2025	R.L.



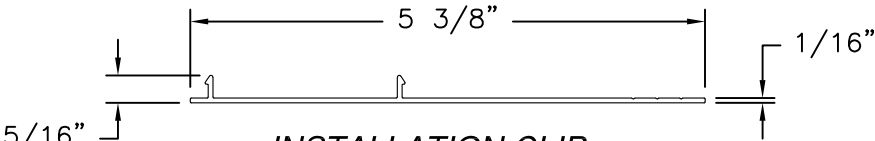
MAIN FRAME
ALUMINUM 6063-T6



FIN FRAME
ALUMINUM 6063-T6



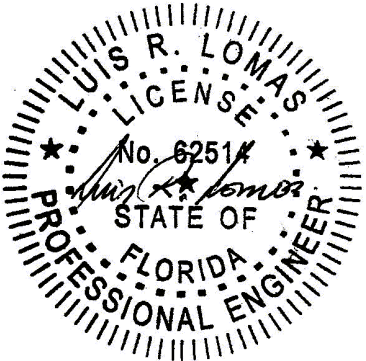
GLAZING BEAD
ALUMINUM 6063-T6



INSTALLATION CLIP
ALUMINUM 6063-T6

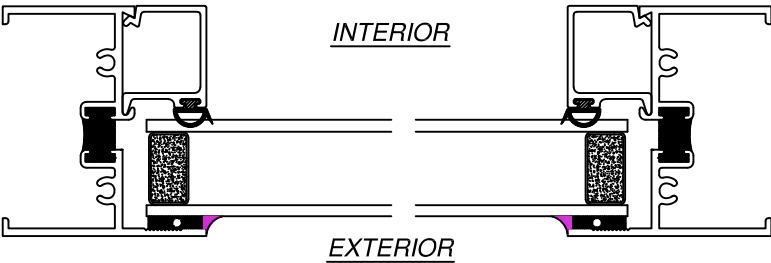
SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION 217 STOVER ROAD CHARLEVOIX, MI 49720		
4500 FIXED WINDOW NON-IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-04126A	REV A
SCALE NTS	DATE 02/27/2025	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

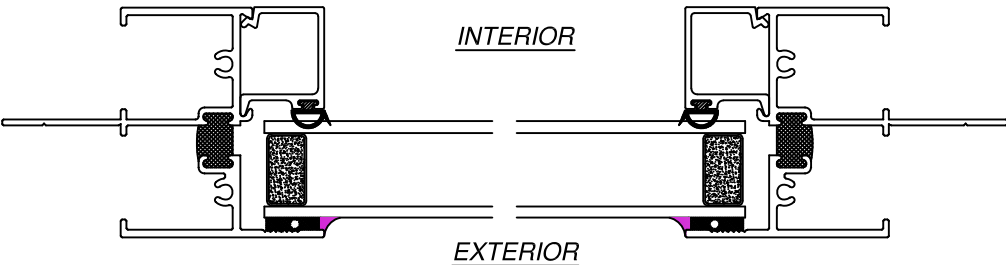


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REV	DESCRIPTION	DATE	APPROVED
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HORIZONTAL CROSS SECTION
CLIP INSTALLATION



HORIZONTAL CROSS SECTION
FIN INSTALLATION

SIGNED: 05/01/2025

WOJAN WINDOW & DOOR CORPORATION
217 STOVER ROAD
CHARLEVOIX, MI 49720

4500 FIXED WINDOW
NON-IMPACT
HORIZONTAL CROSS SECTIONS

DRAWN:
A.R.

DWG NO.
08-04126A

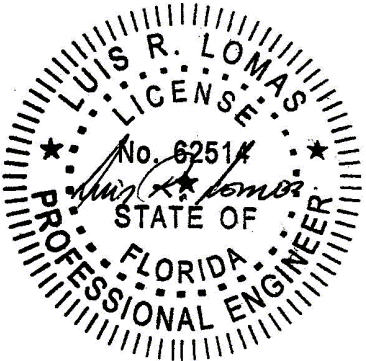
REV
A

SCALE NTS

DATE 02/27/2025

SHEET 11 OF 11

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