

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	REVISED DETAILS AND COMPONENTS	12/14/2023	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 SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” WINDOW 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. WINDOW 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 WINDOW 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 3/8”.
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 T5
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 3 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 OR #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” ELCO ULTRACON OR 1/4” 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 OR #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. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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:
 - 17.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 17.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - 17.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
 - 17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM
18. APPROVED GEOMETRIC SHAPES DIMENSIONS SHALL NOT EXCEED AN AREA OF 18 SQUARE FEET AS TESTED.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3	GLAZING DETAIL & DP CHART
4	CROSS SECTIONS
5 – 8	INSTALLATION DETAILS
9	COMPONENTS

SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL FIXED
WINDOW IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08–02487

REV
C

SCALE NTS

DATE 09/04/14

SHEET 1 OF 9

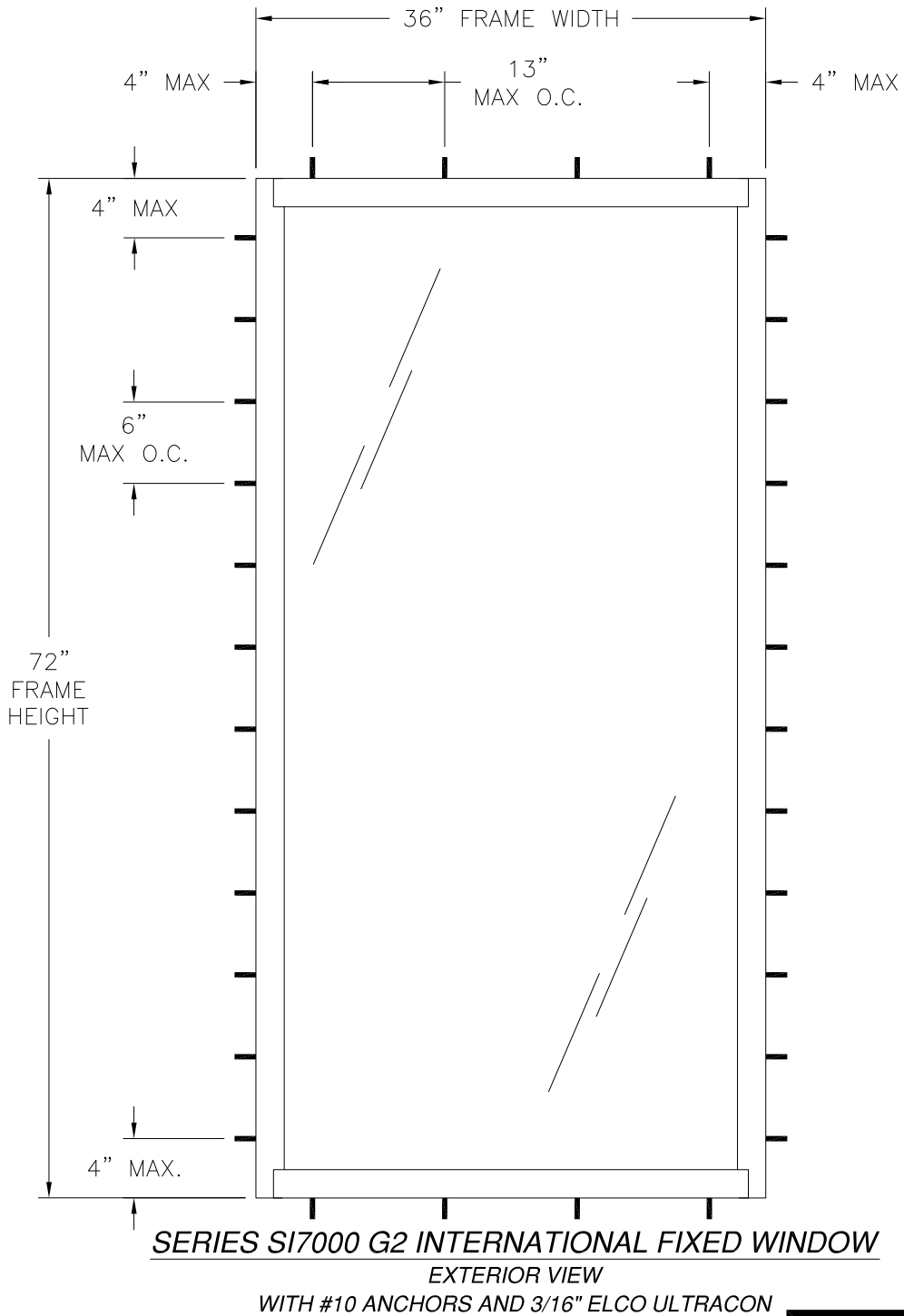
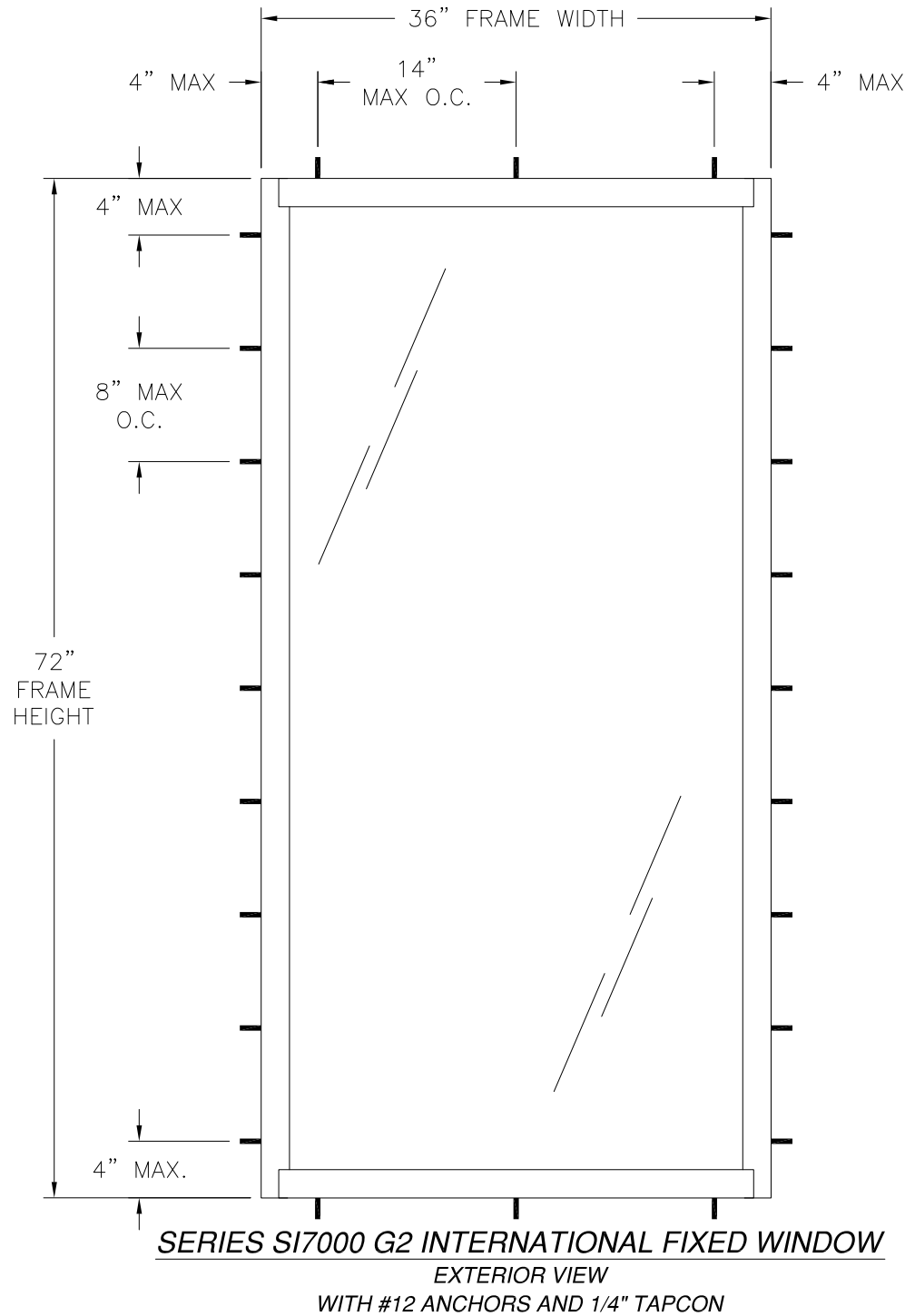
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/15/2023



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

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NOTES:
1. D.L.O.: 32" x 68"

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #1, SHEET 3

36" X 72" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS
FRAME AREA DOES NOT EXCEED 18.0 FT²

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SERIES SI7000 G2 INTERNATIONAL FIXED
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ELEVATIONS

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SHEET 2 OF 9

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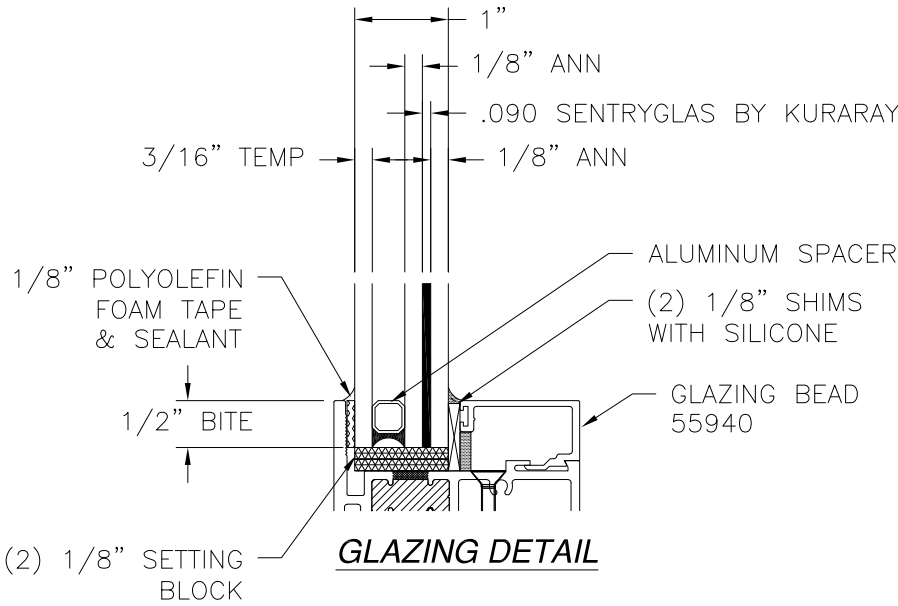


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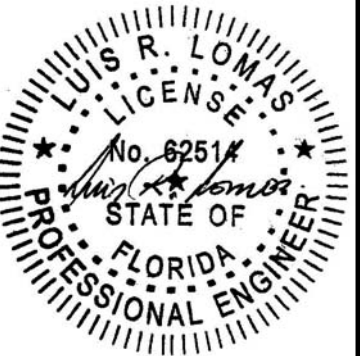
CHART #1

Maximum design pressure capacity chart (psf)																						
Frame Height (in)	Frame width (in)																					
	24.0		30.0		34.0		36.00		42.0		48.0		54.0		60.0		66.0		72.0		78.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-
42.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	64.3	64.3	-	-	-	-	-	-
48.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-
54.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-
60.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	64.3	64.3	-	-	-	-	-	-	-	-	-	-	-
66.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-
70.1	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-
72.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	65.0	65.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	65.0	65.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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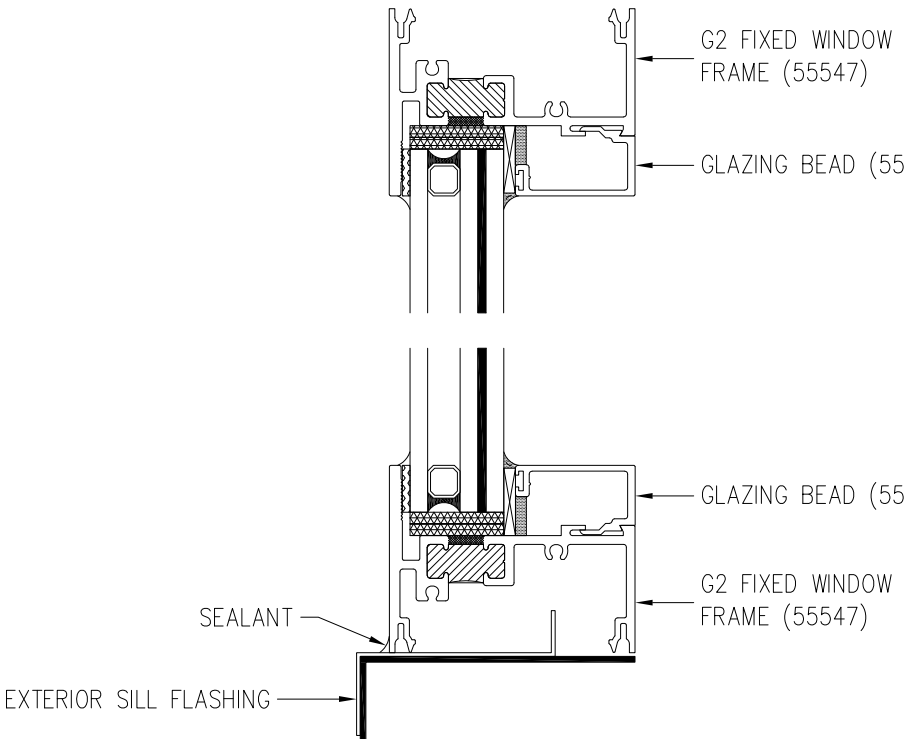
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI7000 G2 INTERNATIONAL FIXED WINDOW IMPACT GLAZING DETAIL & DP CHART		
DRAWN: R.L.	DWG NO. 08-02487	REV C
SCALE NTS	DATE 09/04/14	SHEET 3 OF 9
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/15/2023

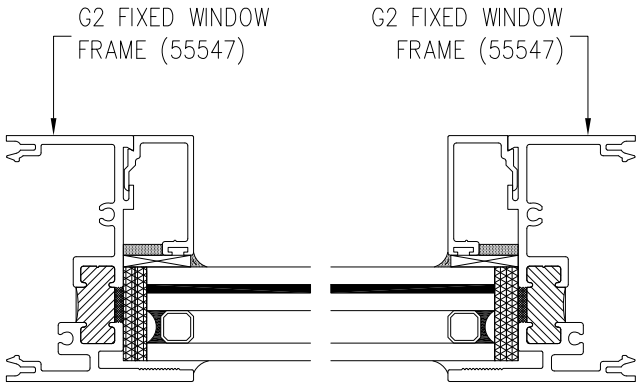


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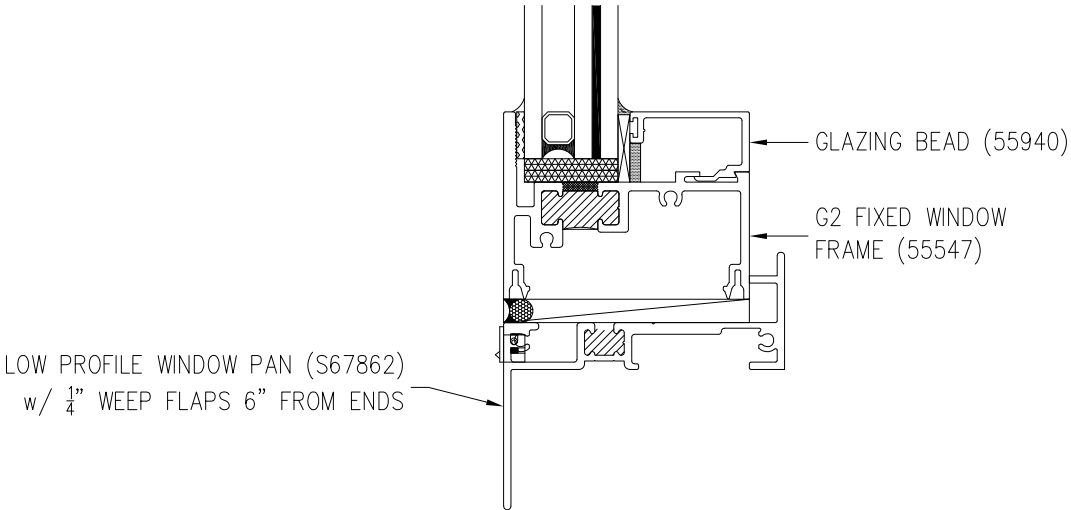
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VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION



ADDITIONAL SILL DETAIL

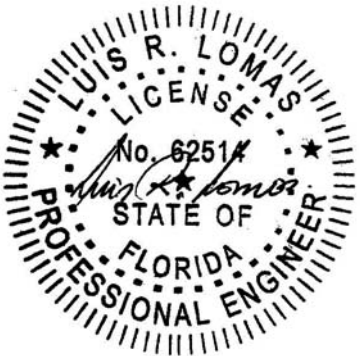
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31 ROBERTS RD
PINE GROVE, PA 17963

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WINDOW IMPACT
CROSS SECTIONS AND COMPONENTS

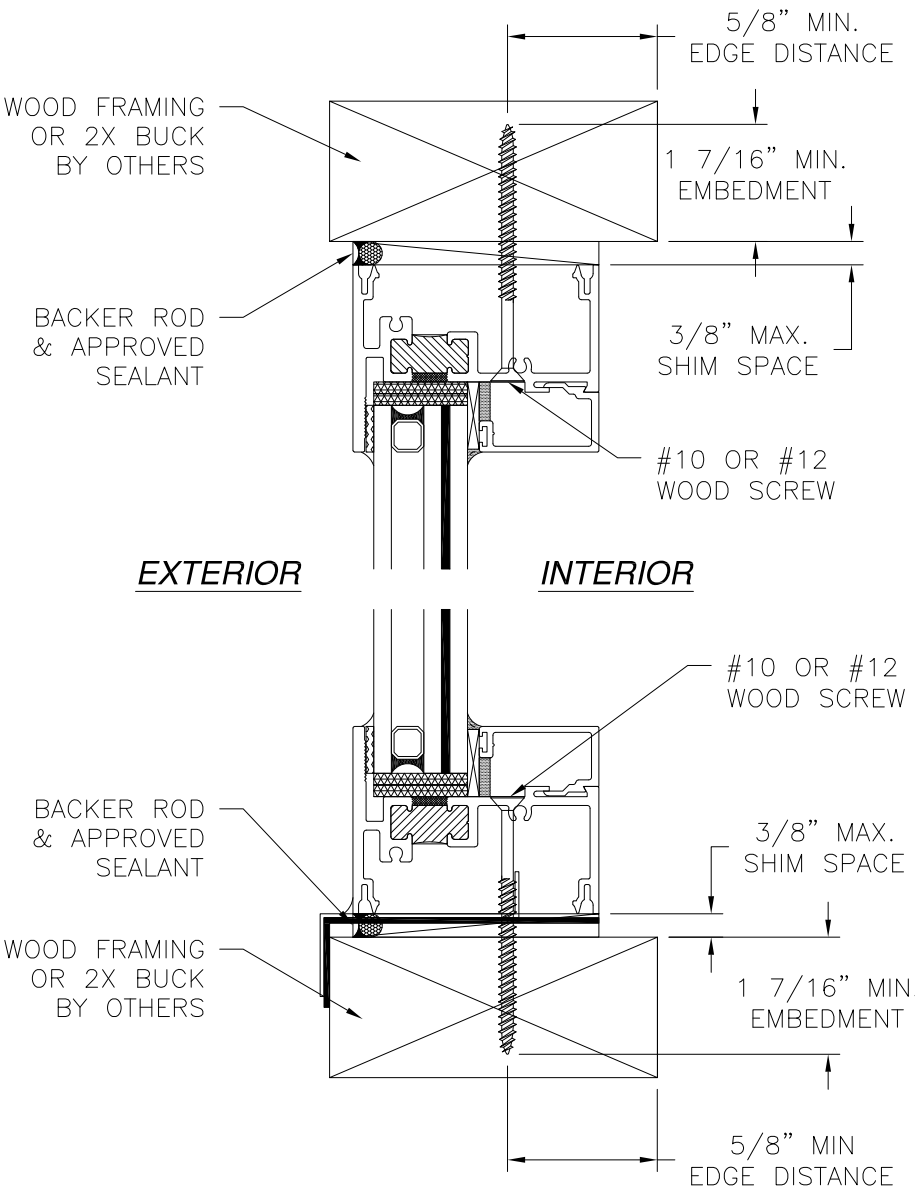
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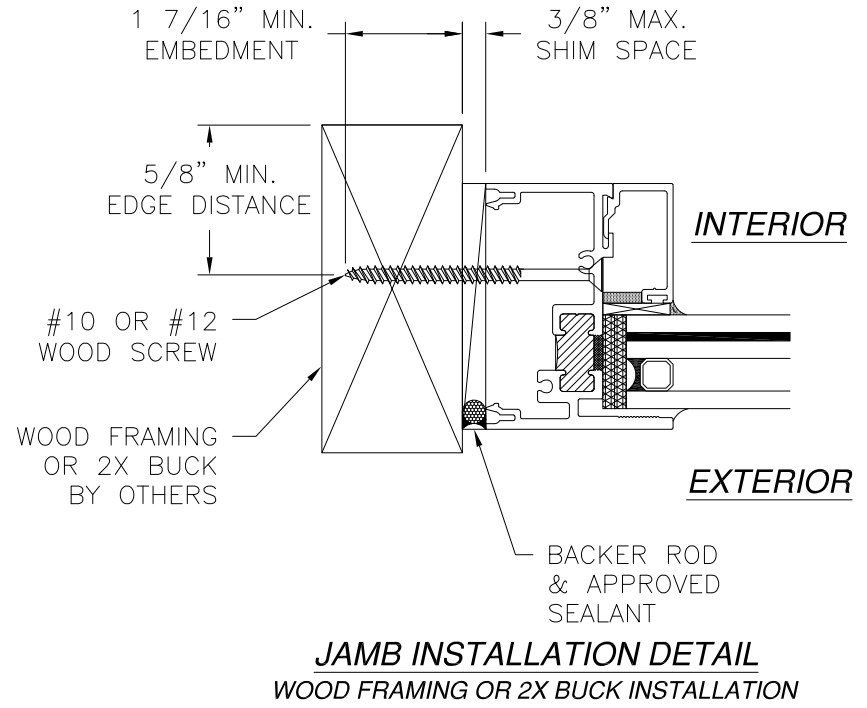
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
FOR ADDITIONAL SILL DETAIL, SEE SHEET 8

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
WOOD FRAMING OR 2X BUCK INSTALLATION

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL FIXED WINDOW IMPACT

INSTALLATION DETAILS

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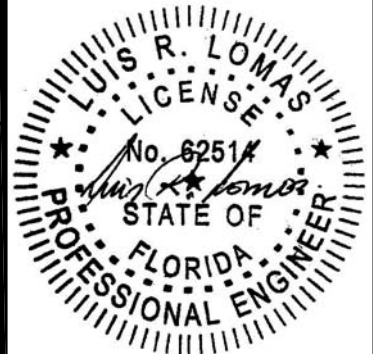
SHEET 5 OF 9

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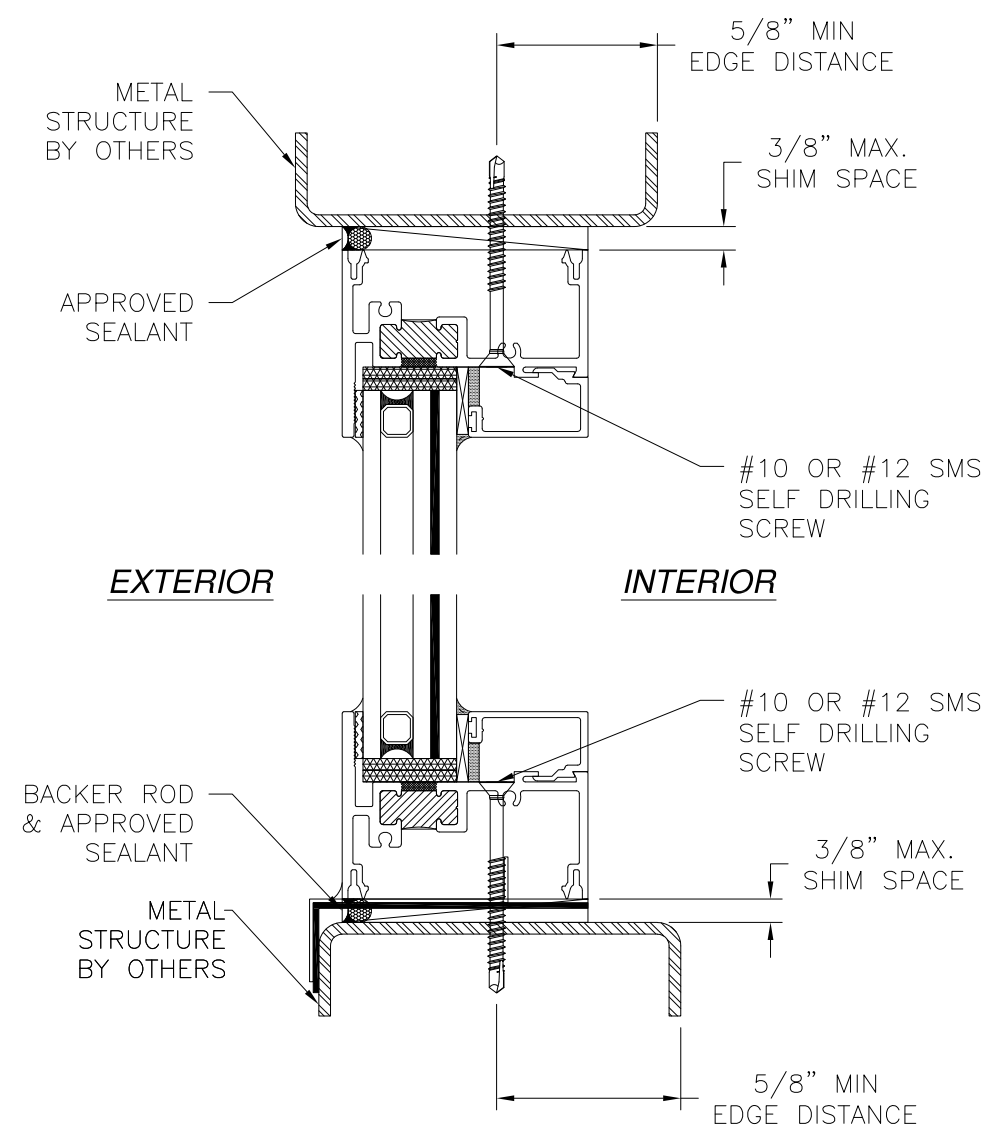
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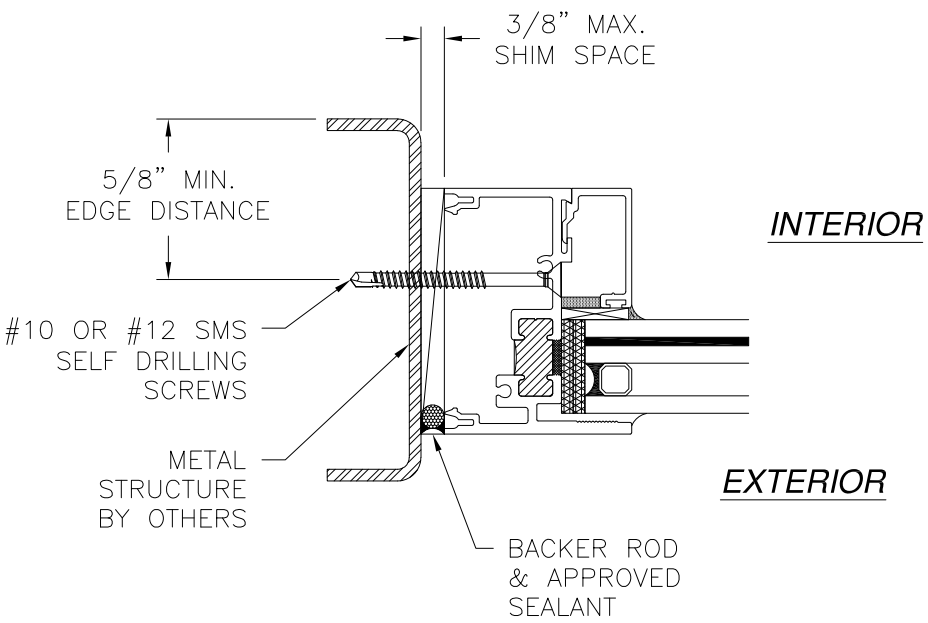


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
FOR ADDITIONAL SILL DETAIL, SEE SHEET 8

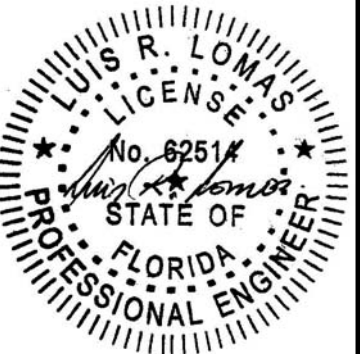


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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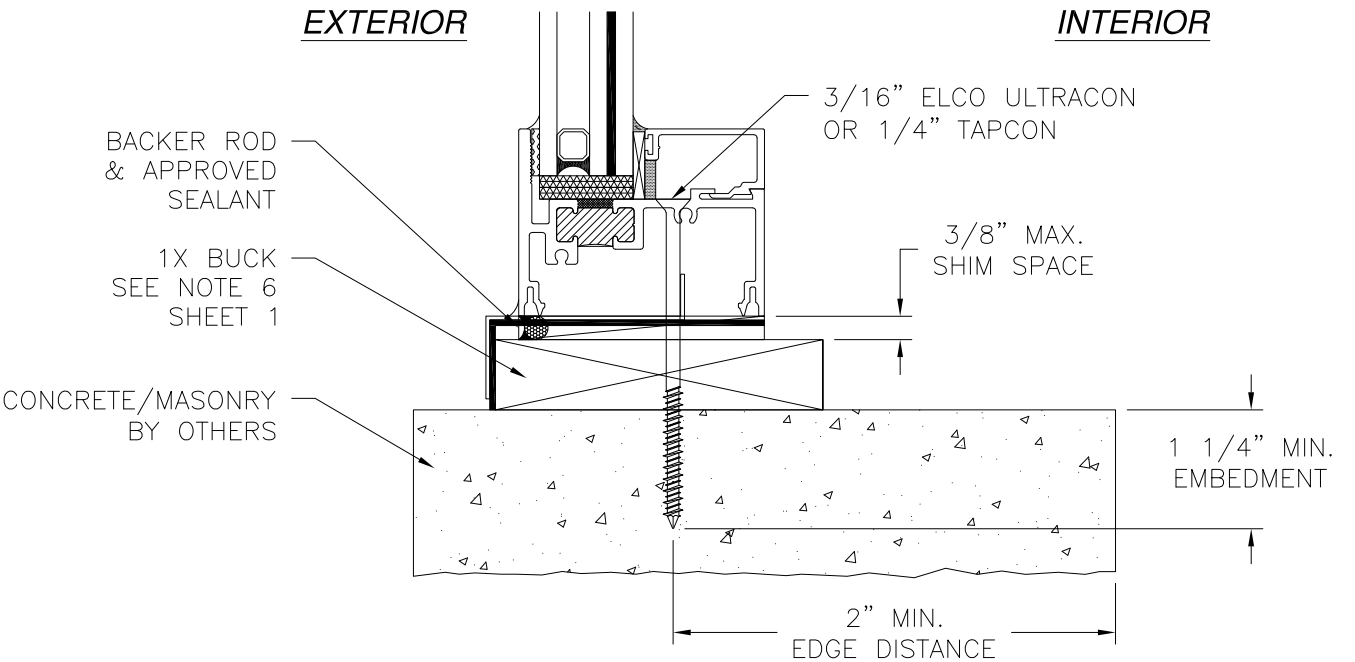
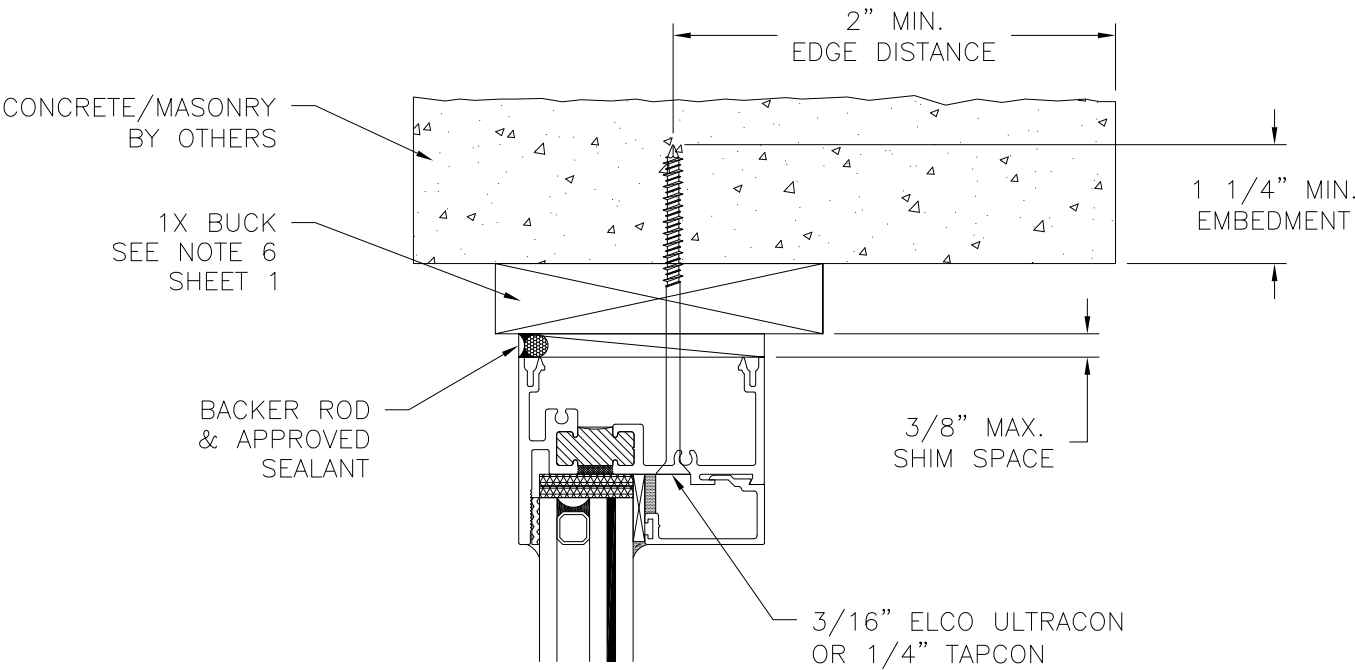
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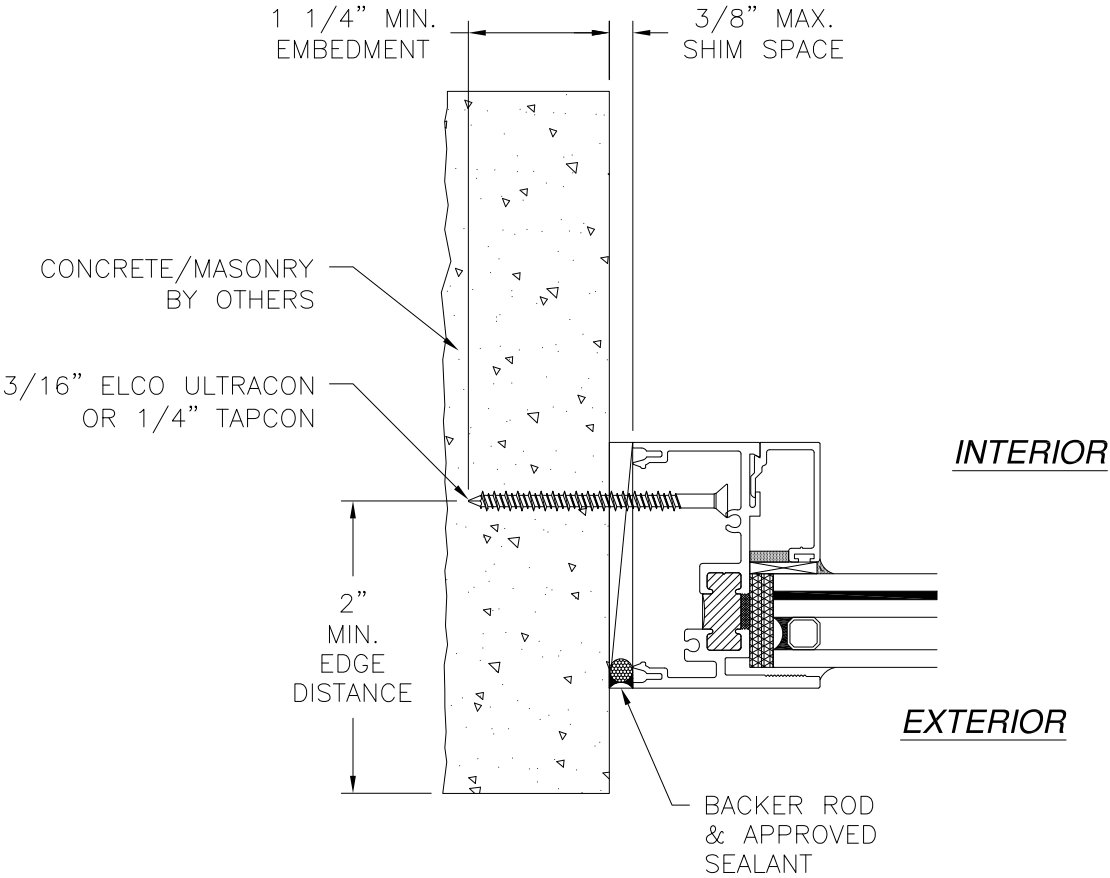
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL
FOR ADDITIONAL SILL DETAIL, SEE SHEET 8

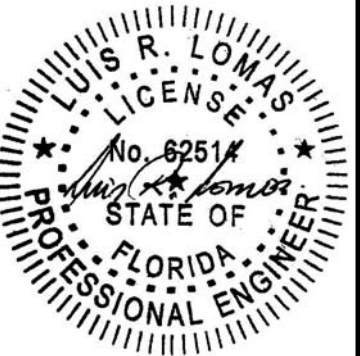
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

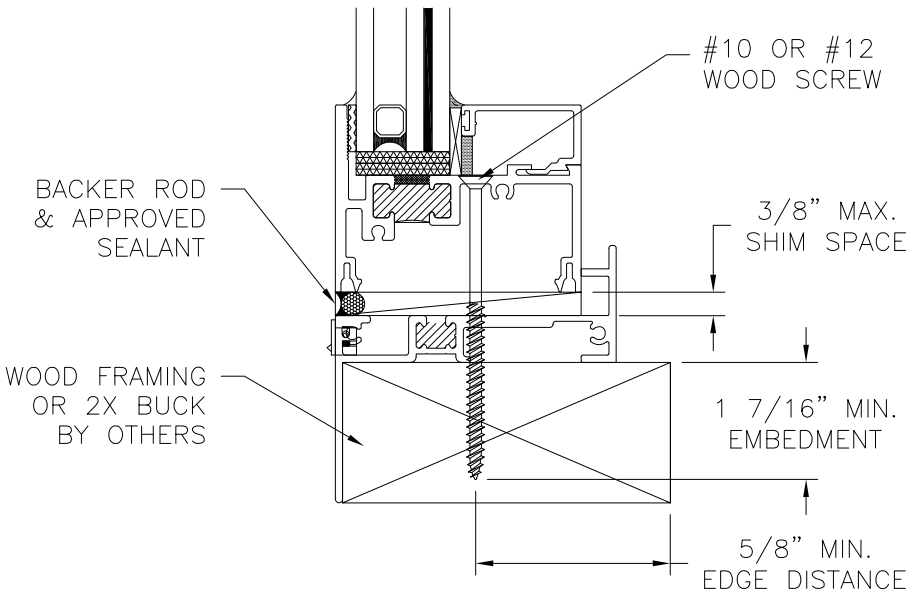
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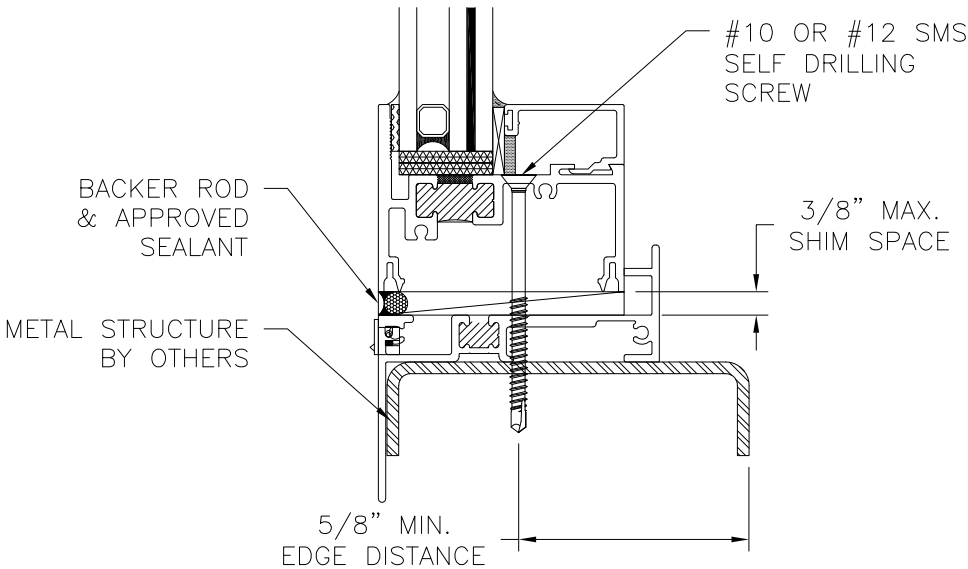


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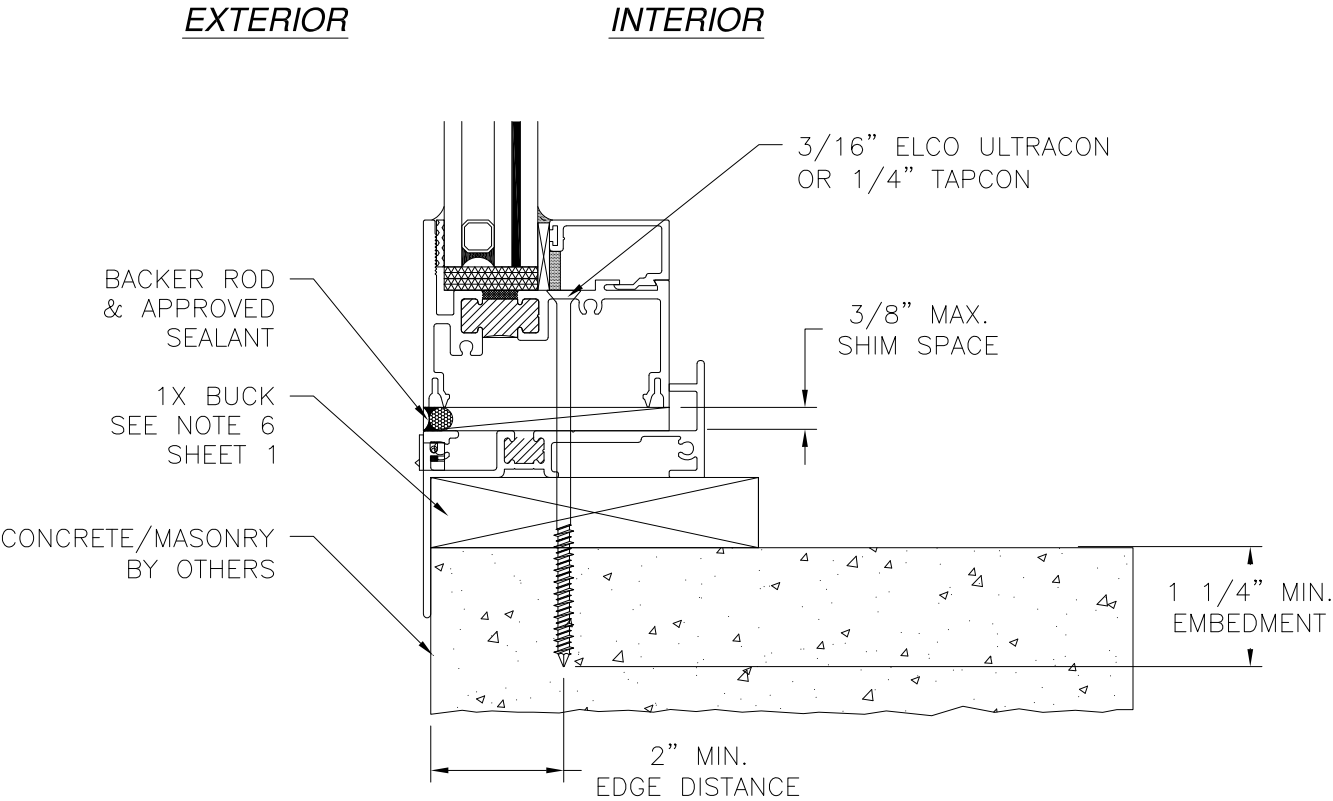


VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862

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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION
WITH LOW PROFILE WINDOW PAN S67862

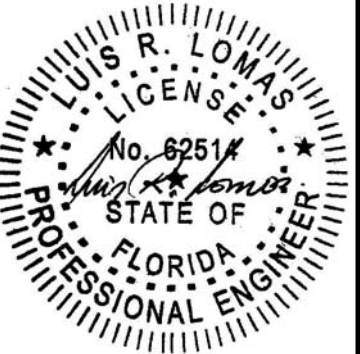
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SCALE NTS	DATE 09/04/14	SHEET 8 OF 9

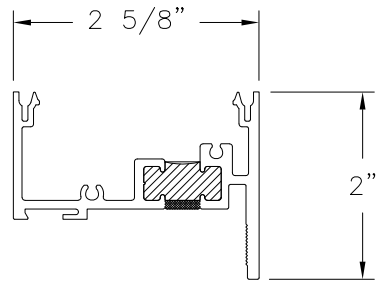
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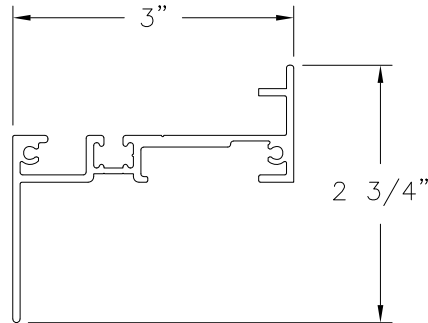


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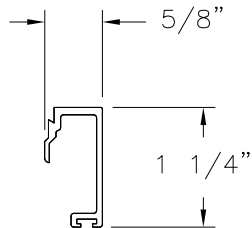
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FRAME
ALUMINUM 6063-T5
.100" THICK



LOW PROFILE WINDOW PAN
ALUMINUM 6063-T5
.100" THICK



GLAZING BEAD
ALUMINUM 6063-T5
.062" THICK

SIGNED: 12/15/2023

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