

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED NAME	09/20/17	R.L.
B	REVISED PER NEW REQUIREMENTS	11/11/2020	R.L.

NOTES:

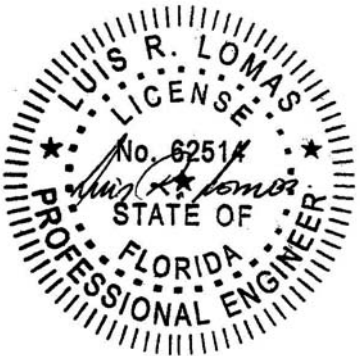
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME 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.
15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

16. FOR ANCHORING THROUGH FRAME 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.
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.

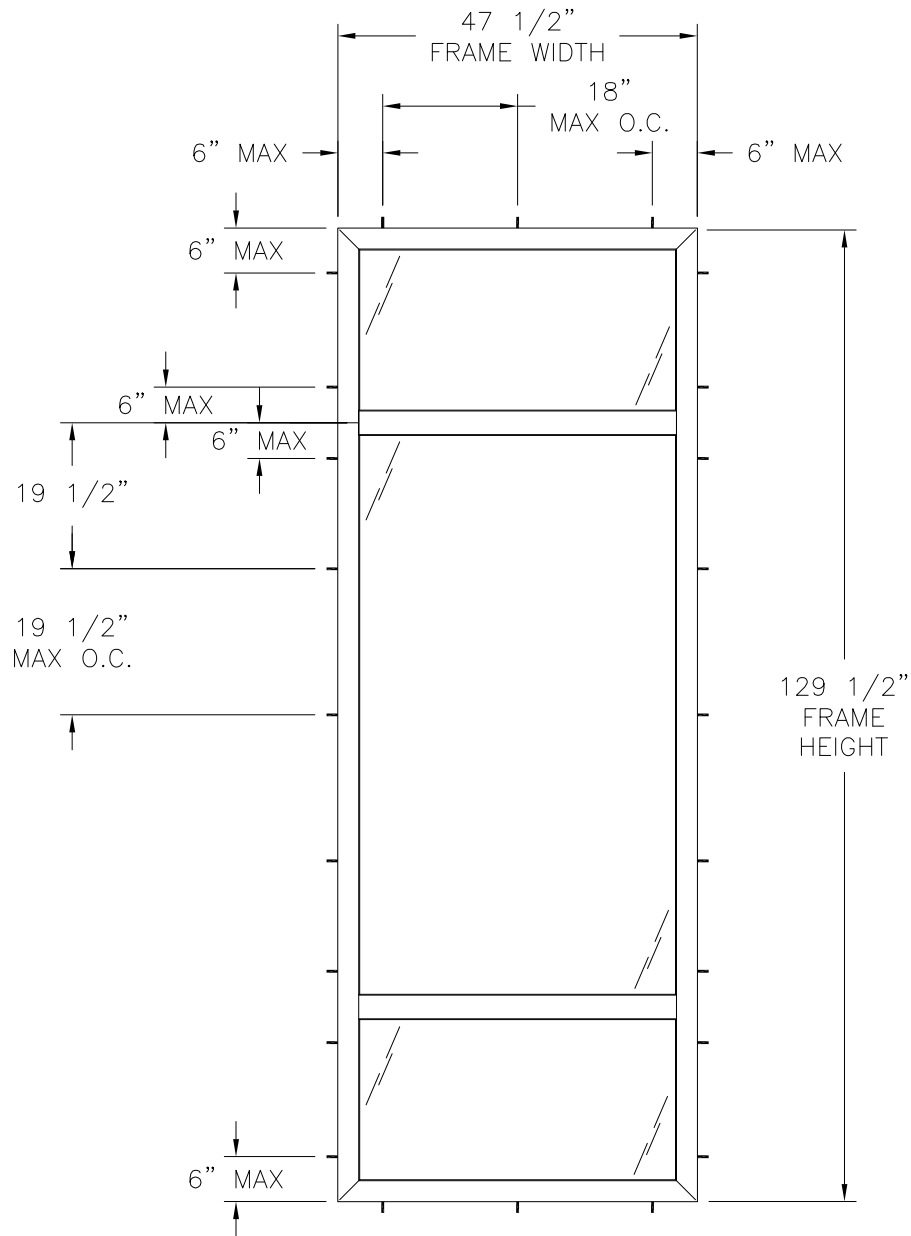
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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION, GLAZING AND STRAP DETAIL
3	DESIGN PRESSURE CHART
4	CROSS SECTIONS
5 - 7	INSTALLATION DETAILS
8	COMPONENTS

SOLAR INNOVATIONS, INC. 31 ROBERTS RD. PINE GROVE, PA 17963		
SERIES SI4000V 3-LITE VINYL FIXED WINDOW IMPACT NOTES		
DRAWN: V.L.	DWG NO. 08-03010	REV B
SCALE NTS	DATE 11/23/16	SHEET 1 OF 8
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 11/11/2020



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FL No.: 62514

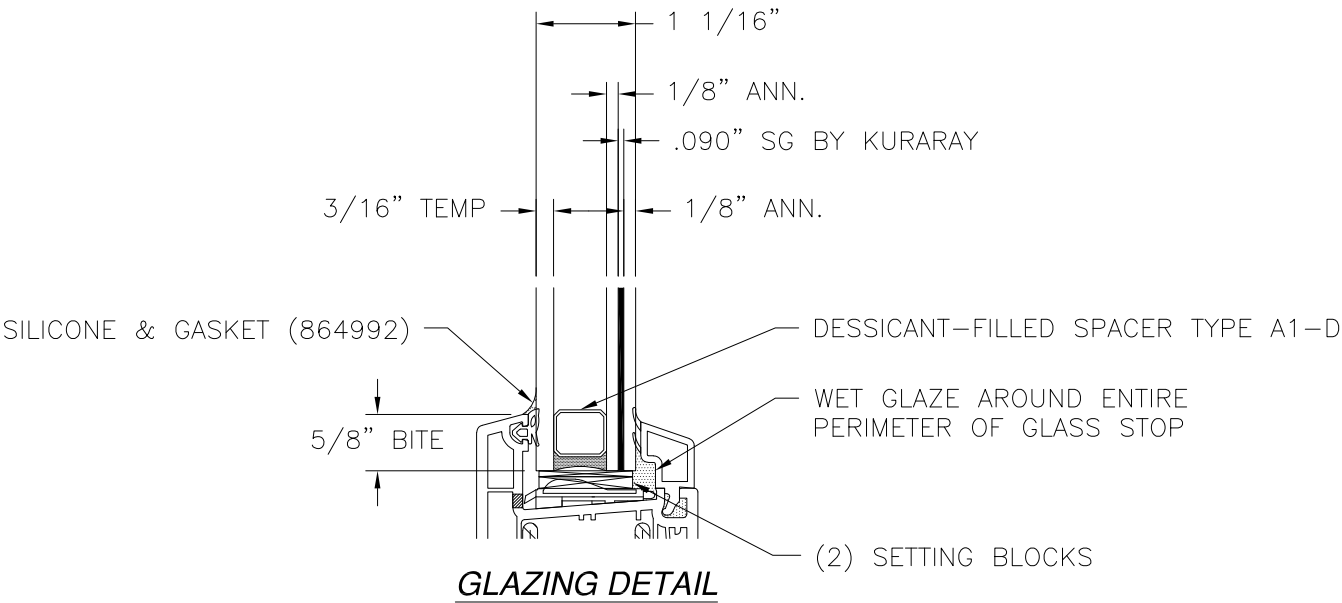


SERIES SI4000V 3-LITE VINYL FIXED WINDOW
EXTERIOR VIEW

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

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

- NOTES:
- D.L.O.: 42 5/32" X 74 5/8"
 - 1 3/16" X 1/4" WEEP HOLE WITH PLASTIC WEEP COVER, 6 1/2" FROM EACH END OF EXTERIOR SILL FACE.
 - 1 1/16" X 3/16" WEEP HOLE, 7 3/4" FROM EACH END ON HEAD EXTERIOR FACE.
 - 1 1/16" X 3/16" WEEP HOLE, 4 3/4" FROM EACH END OF INTERMEDIATE RAILS EXTERIOR FACE.



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

SERIES SI4000V
3-LITE VINYL FIXED WINDOW IMPACT
ELEVATION AND GLAZING DETAIL

DRAWN:
V.L.

DWG NO.
08-03010

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B

SCALE
NTS

DATE
11/23/16

SHEET
2 OF 8

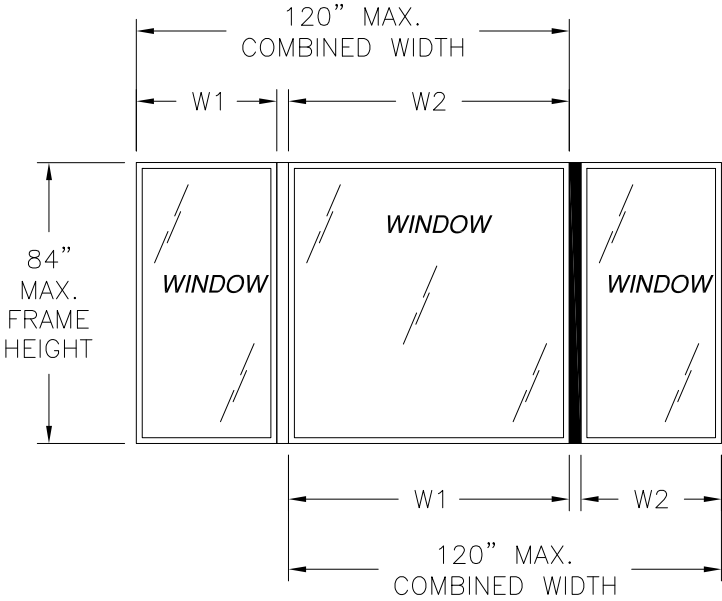
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LUIS R. LOMAS
LICENSED PROFESSIONAL ENGINEER
No. 62514
STATE OF FLORIDA

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

Chart #1 Maximum Design pressure (psf)																
Panel Height (in)	Tributary Width (in)															
	24.0		30.0		36.0		42.0		48.0		52.0		54.0		60.0	
	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
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
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
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	-	-
47.5	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	-	-	-	-
48.0	65.0	65.0	65.0	65.0	65.0	65.0	63.6	63.6	62.3	62.3	-	-	-	-	-	-
54.0	60.7	60.7	50.9	50.9	45.0	45.0	41.4	41.4	-	-	-	-	-	-	-	-
60.0	43.6	43.6	36.2	36.2	31.6	31.6	-	-	-	-	-	-	-	-	-	-
66.0	32.4	32.4	26.7	26.7	23.1	23.1	-	-	-	-	-	-	-	-	-	-
72.0	24.7	24.7	20.3	20.3	-	-	-	-	-	-	-	-	-	-	-	-
78.0	19.3	19.3	15.8	15.8	-	-	-	-	-	-	-	-	-	-	-	-
84.0	15.4	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-



TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

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

SERIES SI4000V
3-LITE VINYL FIXED WINDOW IMPACT
DESIGN PRESSURE CHART

DRAWN:
V.L.

DWG NO.
08-03010

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DATE 11/23/16

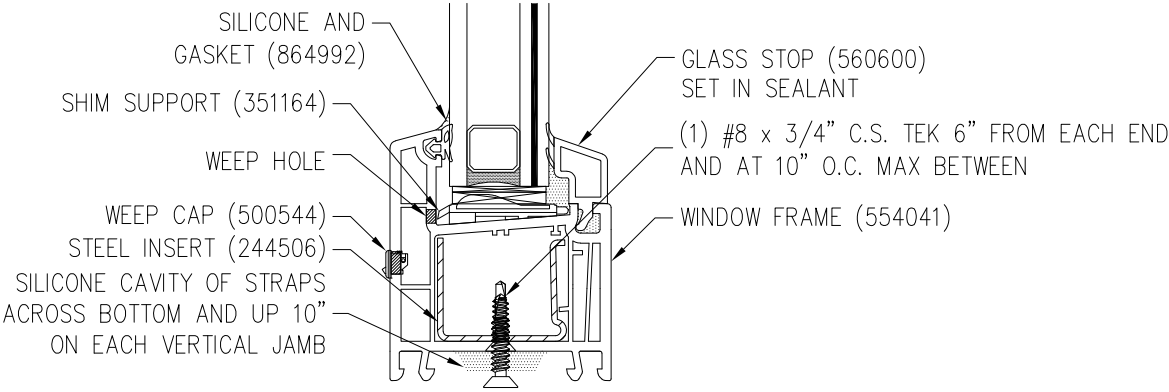
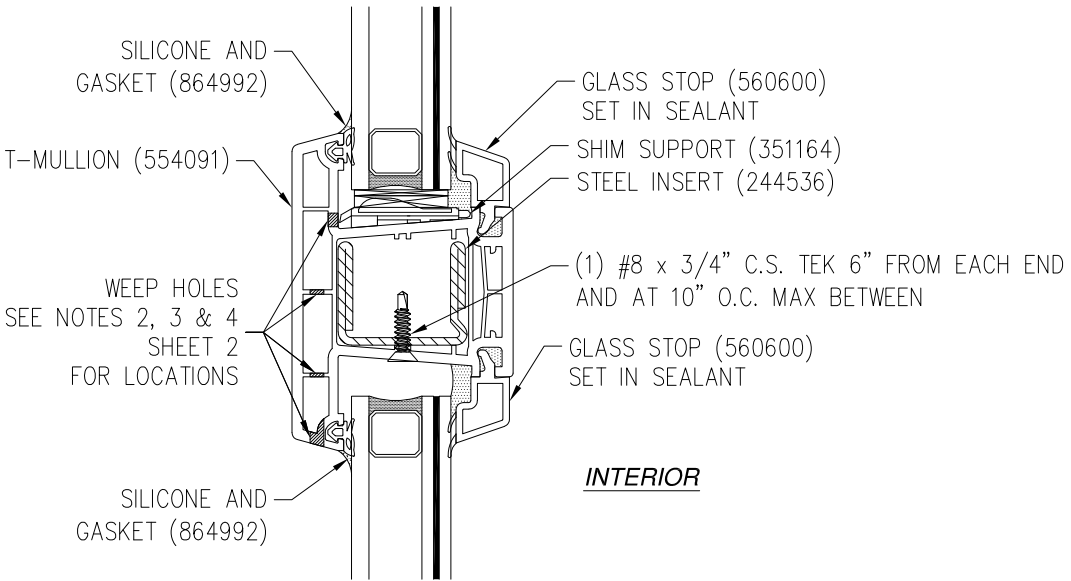
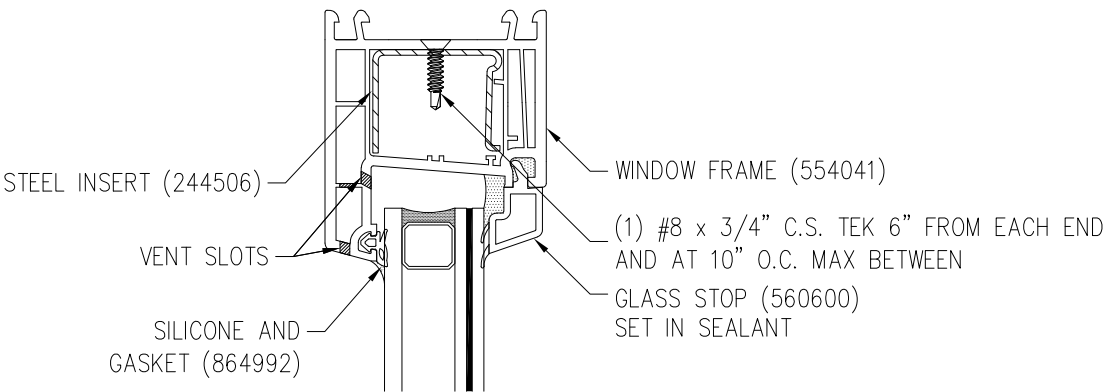
SHEET 3 OF 8

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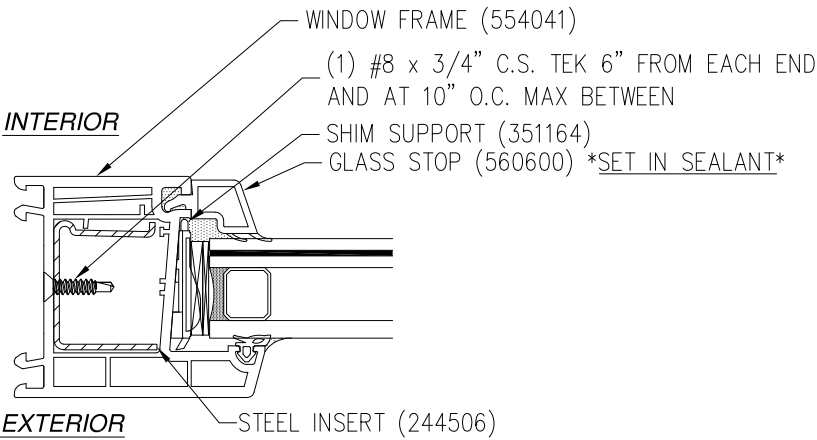
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VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION

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31 ROBERTS RD.
PINE GROVE, PA 17963

SERIES SI4000V
3-LITE VINYL FIXED WINDOW IMPACT
CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-03010	REV B
SCALE NTS	DATE 11/23/16	SHEET 4 OF 8

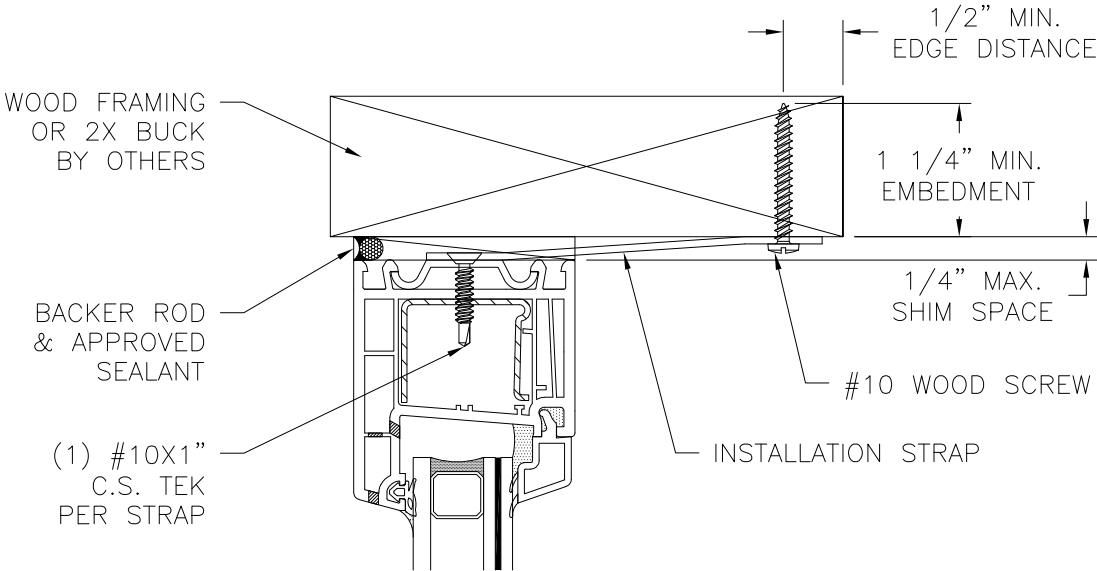
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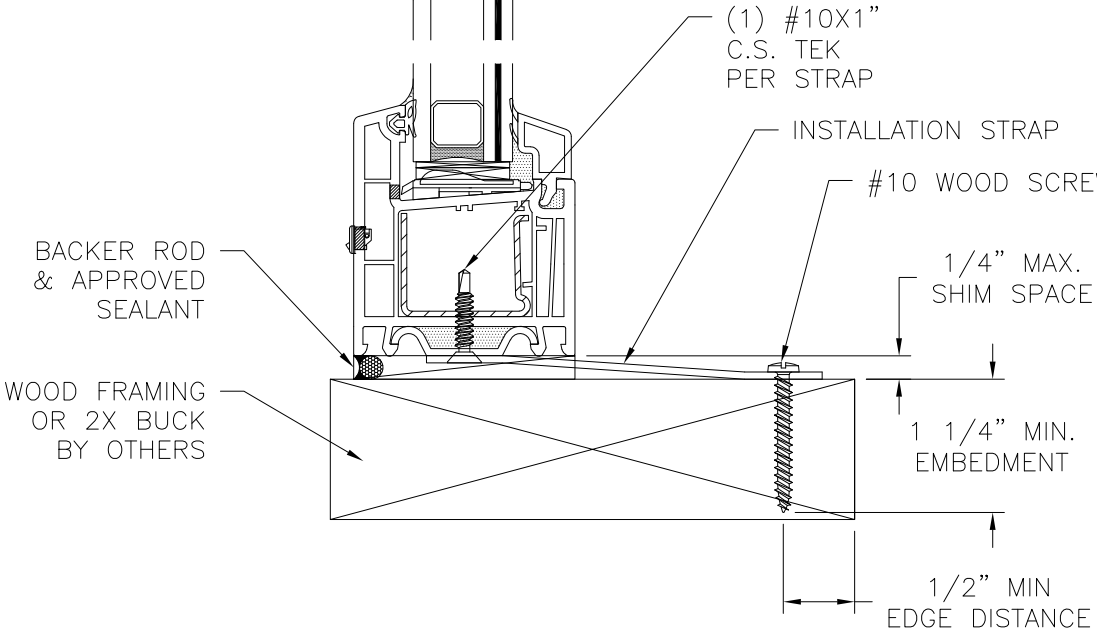
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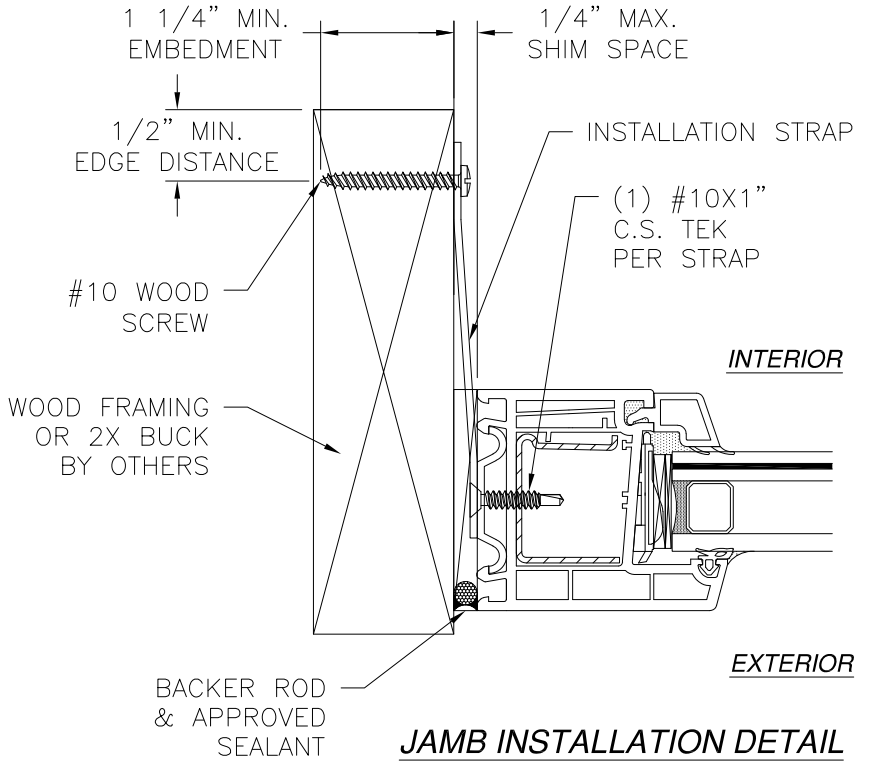


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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

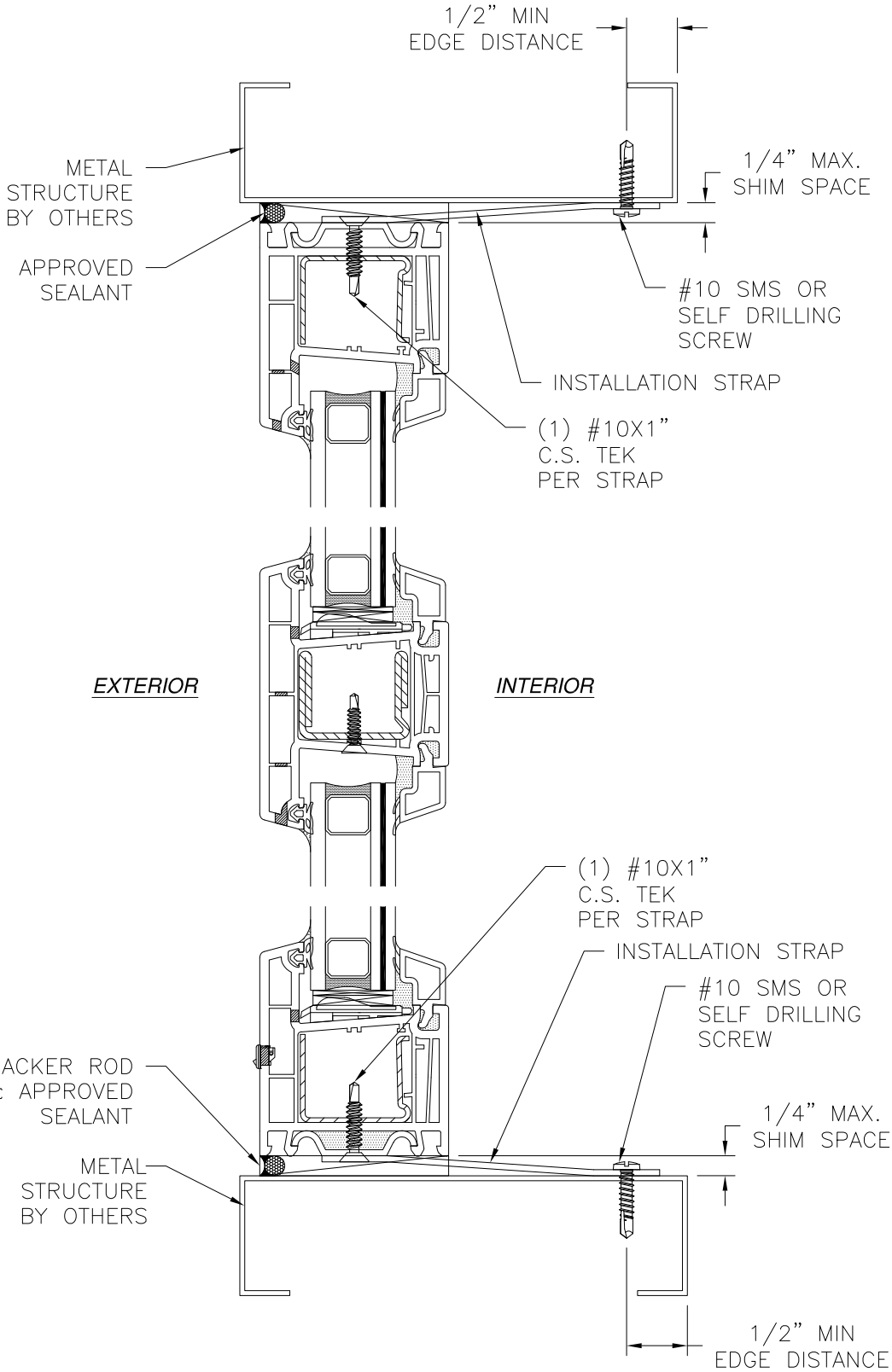
SOLAR INNOVATIONS, INC. 31 ROBERTS RD. PINE GROVE, PA 17963		
SERIES SI4000V 3-LITE VINYL FIXED WINDOW IMPACT INSTALLATION DETAILS		
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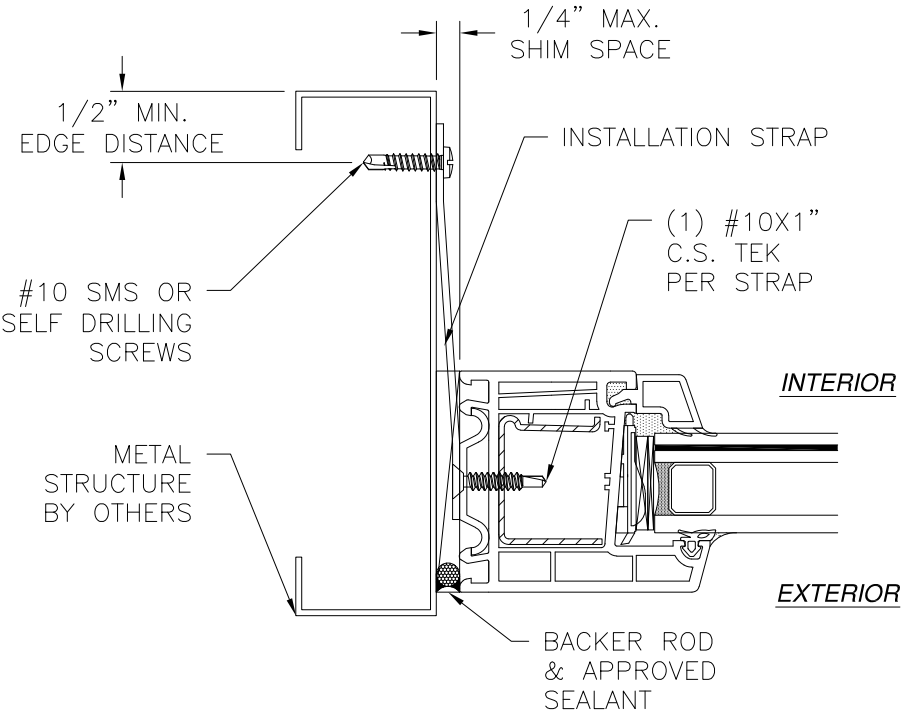


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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

SOLAR INNOVATIONS, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SERIES SI4000V

3-LITE VINYL FIXED WINDOW IMPACT
INSTALLATION DETAILS

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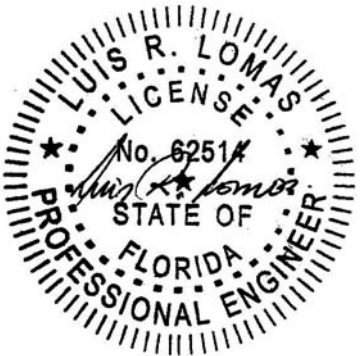
SHEET 6 OF 8

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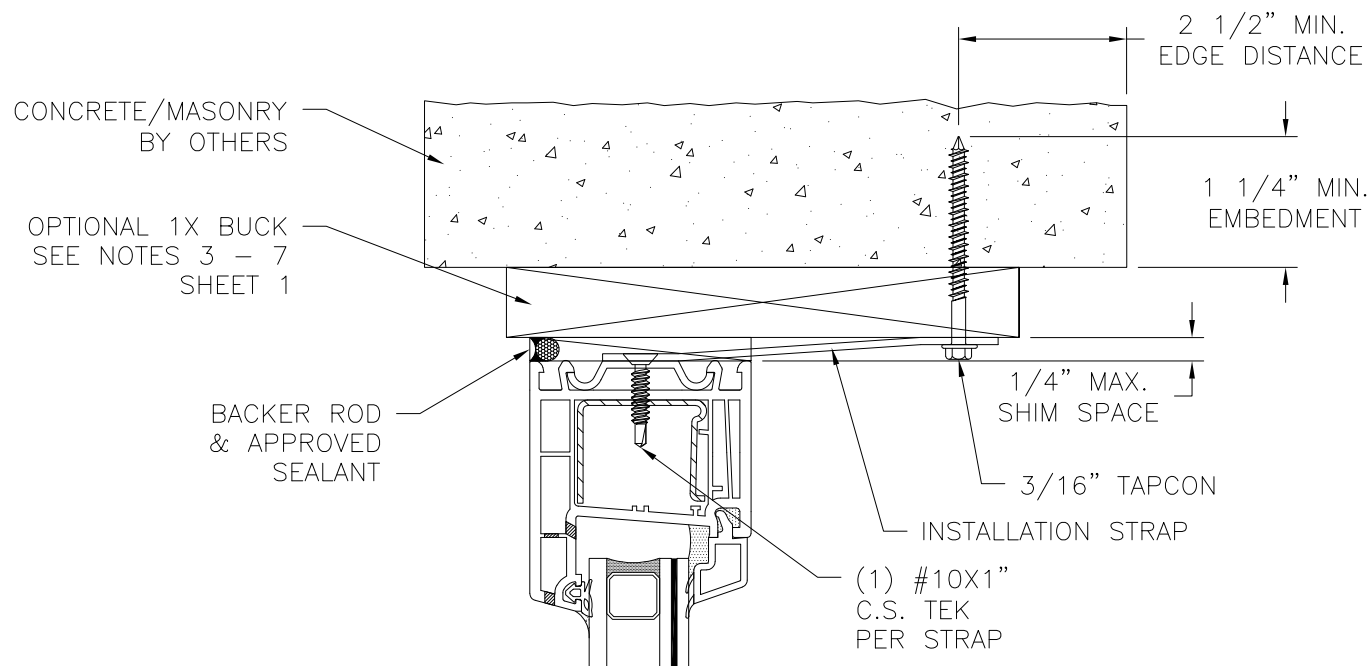
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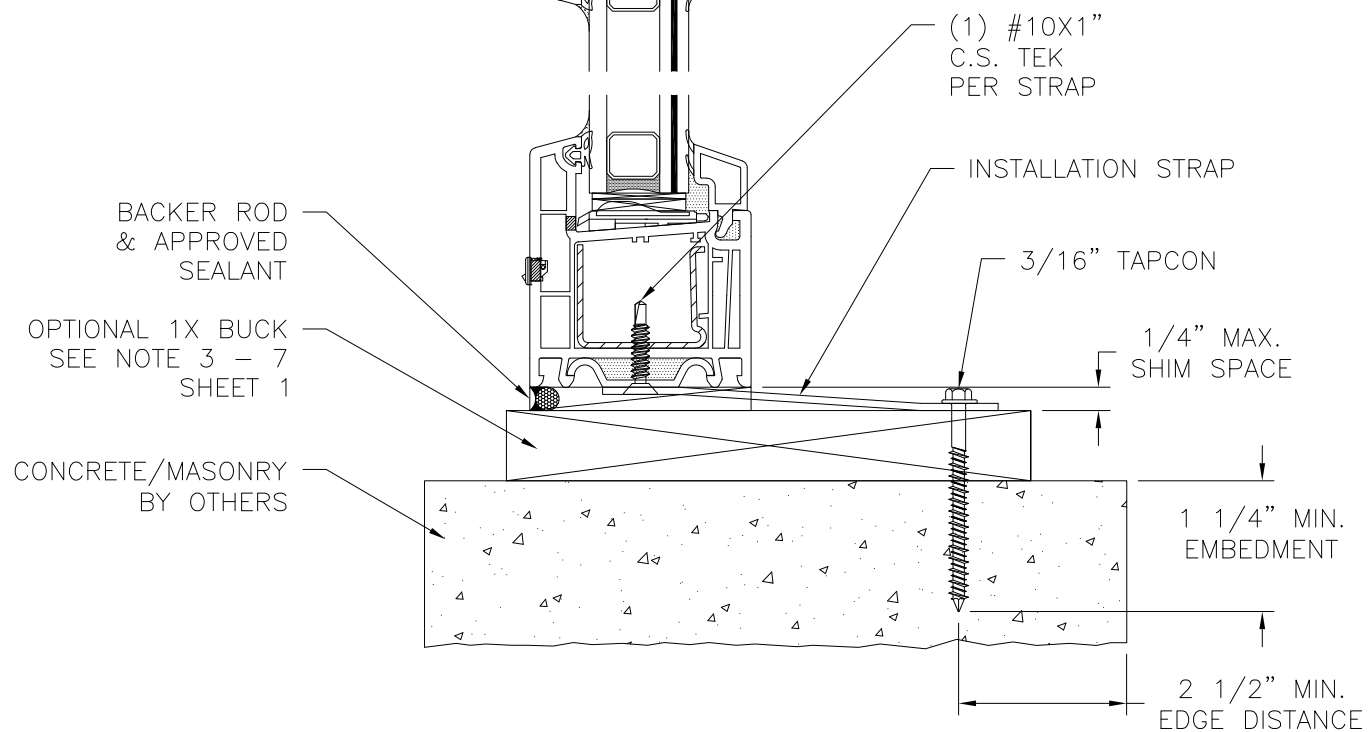


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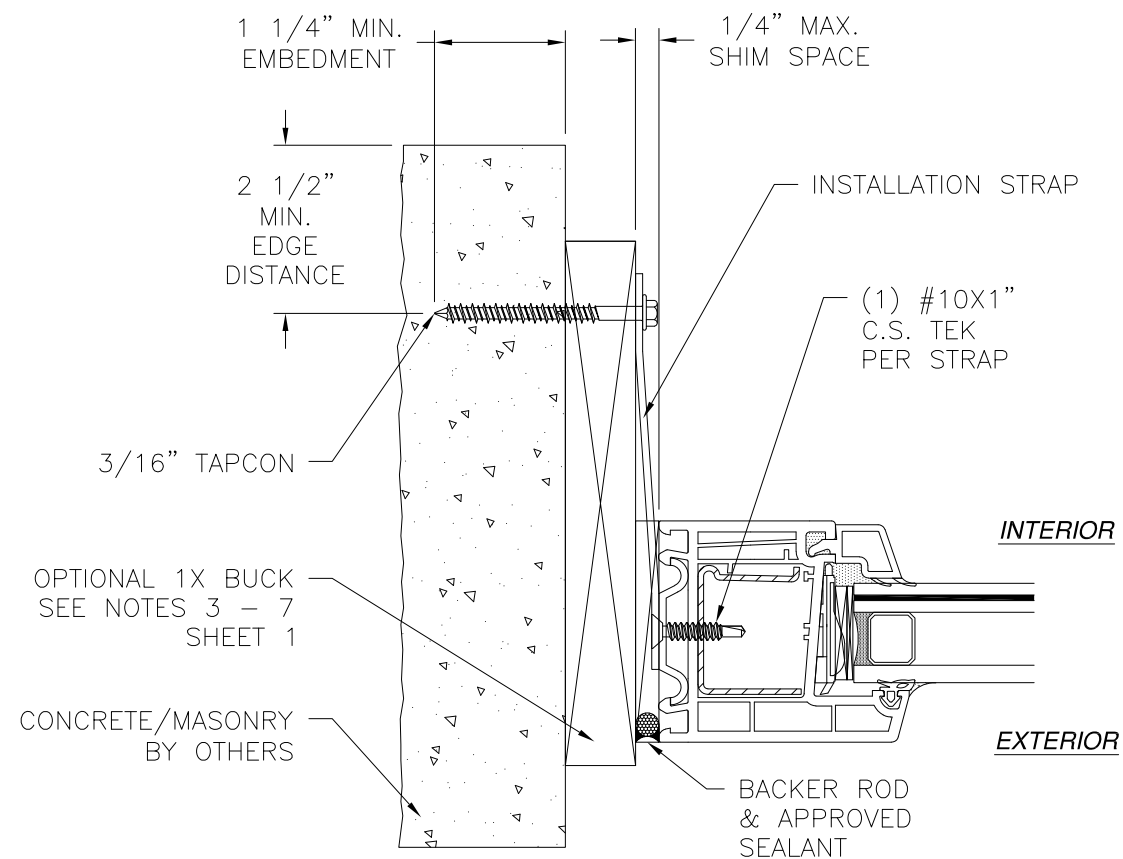
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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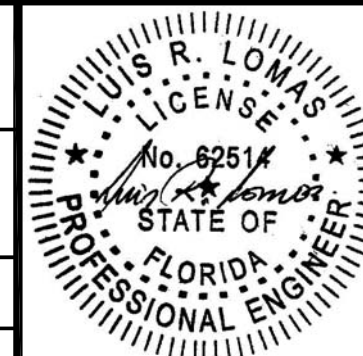
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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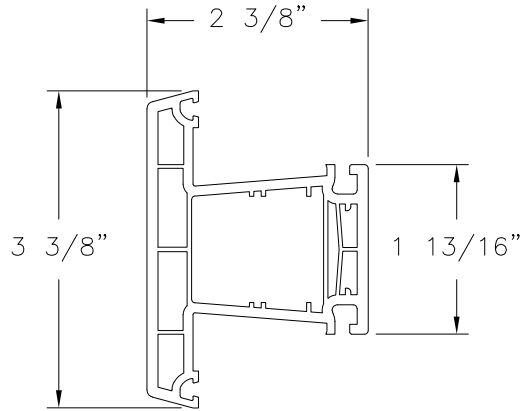
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SOLAR INNOVATIONS, INC.		
31 ROBERTS RD. PINE GROVE, PA 17963		
SERIES SI4000V 3-LITE VINYL FIXED WINDOW IMPACT INSTALLATION DETAILS		
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SCALE NTS	DATE 11/23/16	SHEET 7 OF 8
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

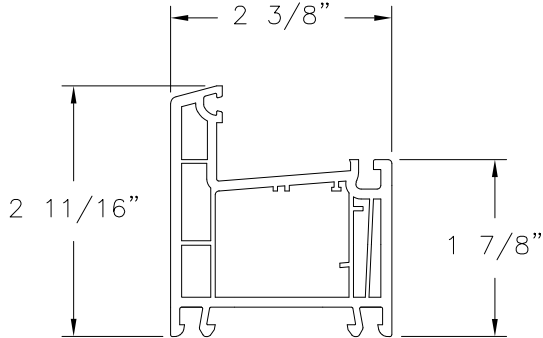


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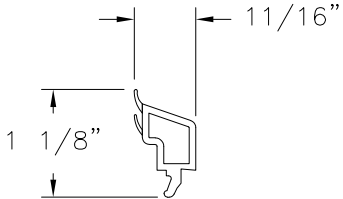
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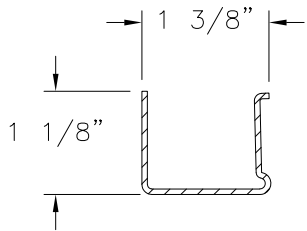
T-MULLION (554091)
EXTRUDED VINYL PVC



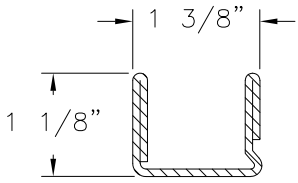
WINDOW FRAME (554041)
EXTRUDED VINYL PVC



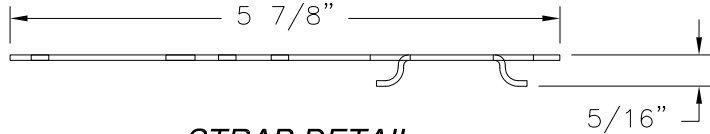
GLASS STOP (560600)
EXTRUDED VINYL PVC



FRAME REINFORCEMENT (244506)
STEEL



T-MULLION REINFORCEMENT (244536)
STEEL



STRAP DETAIL
.059" GALVANIZED STEEL

SOLAR INNOVATIONS, INC. 31 ROBERTS RD. PINE GROVE, PA 17963		
SERIES SI4000V 3-LITE VINYL FIXED WINDOW IMPACT COMPONENTS		
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