

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	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. FOR STRIP OR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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, WITH SAFETY GLAZING.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 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 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.
16. 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.
17. 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. 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 3,000 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM
20. APPROVED CONFIGURATIONS: OX, XO.

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SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)

96" X 96" NON-IMPACT

NOTES

DRAWN:
A.R.

DWG NO.
08-03239

REV
A

SCALE NTS

DATE 04/12/18

SHEET 1 OF 12

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

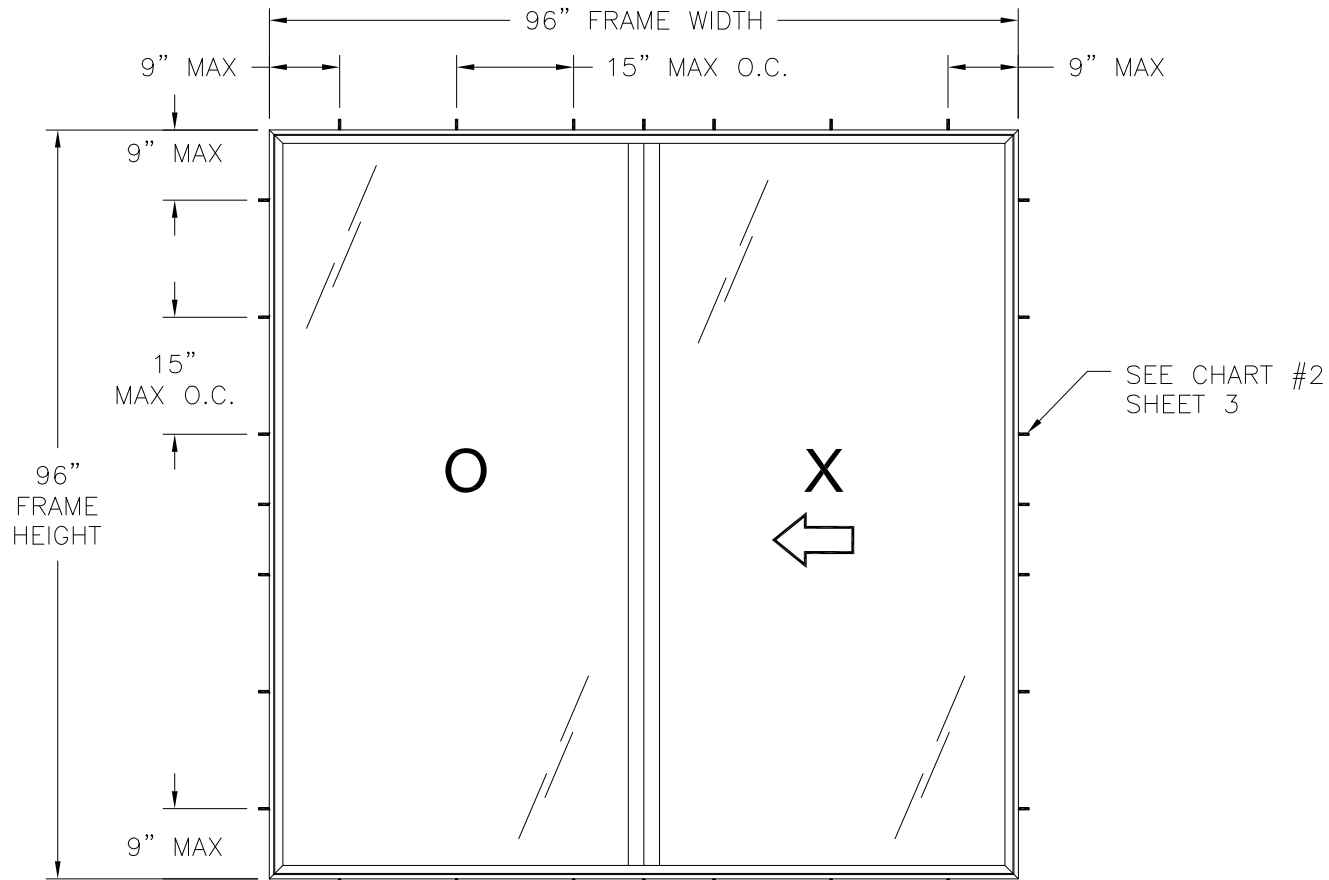
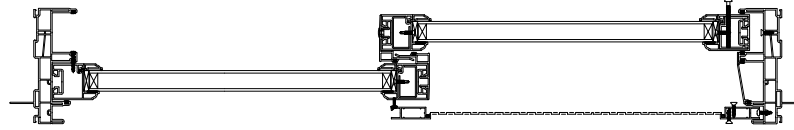
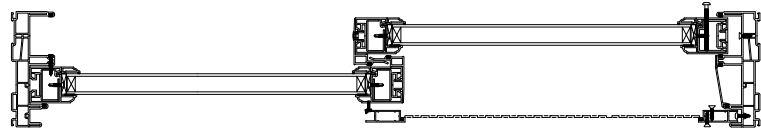
434-688-0609 rllomas@lrlomaspe.com

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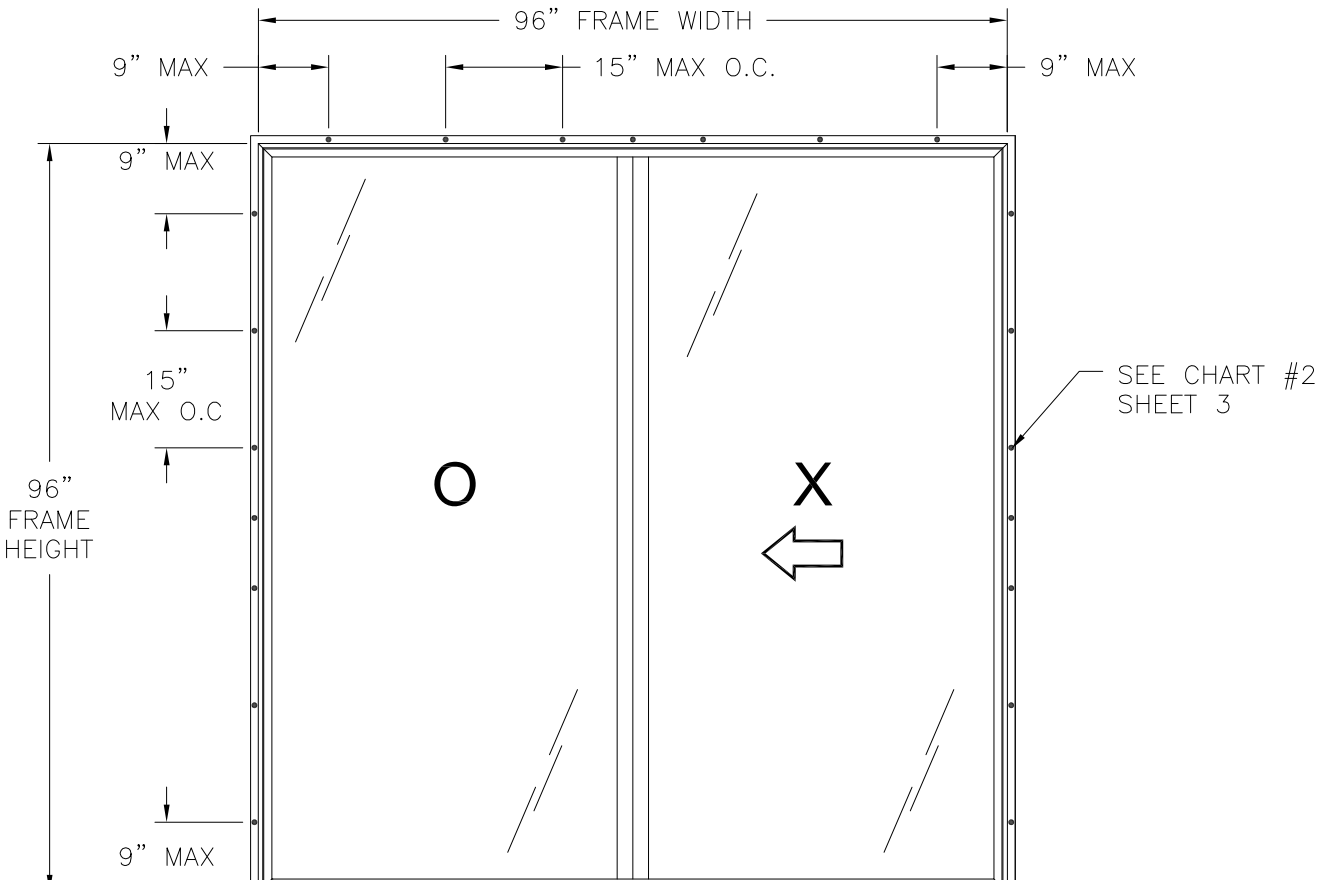


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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SERIES SI4100V VINYL SLIDING GLASS DOOR OX & XO
EXTERIOR VIEW
FRAME AND STRIP INSTALLATION



SERIES SI4100V VINYL SLIDING GLASS DOOR OX & XO
EXTERIOR VIEW
FIN INSTALLATION

NOTES:

1. ACTIVE PANEL SIZE: 47 15/16" X 92 3/4"
2. FIXED PANEL SIZE: 47 15/16" X 92 3/4"
3. D.L.O. FOR ALL PANELS: 44 5/16" X 89 1/8"

DESIGN PRESSURE RATING	IMPACT RATING
± 25.0 PSF	NONE

47 15/16" X 92 3/4" PANELS SHOWN. OTHER SIZES ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 30.87 FT²
SEE CHART #1, SHEET 3

HARDWARE SCHEDULE

A.	(1) TWIN POINT MORTISE LOCK WITH KEEPER, 36" UP FROM BOTTOM OF SILL
B.	(1) HANDLE - TRUTH (ALLURE), 34" UP FROM BOTTOM OF STILE INTERIOR AND EXTERIOR
C.	(2) TANDEM ROLLER (ALL SPECIAL) RICCI, AT BOTTOM CORNERS OF ACTIVE PANEL
D.	(1) SCREEN HANDLE AND KEEPER, 37 1/4" UP FROM BOTTOM OF SILL
E.	EXTRUDED ALUMINUM REINFORCEMENTS AT PANEL STILES

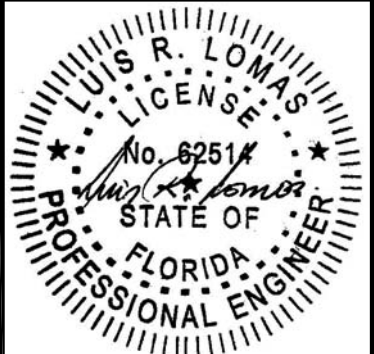
SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
96" X 96" NON-IMPACT
ELEVATIONS

DRAWN: A.R.	DWG NO. 08-03239	REV A
SCALE NTS	DATE 04/12/18	SHEET 2 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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Chart #1

Maximum Design pressure (psf)																		
Panel Height (in)	Single Panel Width (in)																	
	24.00		27.00		30.00		33.00		36.00		39.00		42.00		45.00		47.94	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.00	50.0	50.0	46.6	46.6	42.9	42.9	39.9	39.9	37.5	37.5	35.4	35.4	33.4	33.4	31.2	31.2	29.3	29.3
86.00	47.1	47.1	42.7	42.7	39.3	39.3	36.5	36.5	34.2	34.2	32.2	32.2	30.6	30.6	29.0	29.0	27.3	27.3
92.00	43.6	43.6	39.5	39.5	36.2	36.2	33.6	33.6	31.4	31.4	29.6	29.6	28.0	28.0	26.7	26.7	25.5	25.5
93.75	42.6	42.6	38.6	38.6	35.4	35.4	32.8	32.8	30.7	30.7	28.9	28.9	27.4	27.4	26.1	26.1	25.0	25.0
98.00	40.2	40.2	36.0	36.0	32.6	32.6	29.9	29.9	27.6	27.6	25.8	25.8	24.2	24.2	22.8	22.8	-	-
104.00	33.6	33.6	30.0	30.0	27.2	27.2	24.9	24.9	23.0	23.0	21.4	21.4	20.1	20.1	-	-	-	-
110.00	28.3	28.3	25.3	25.3	22.9	22.9	20.9	20.9	19.3	19.3	18.0	18.0	-	-	-	-	-	-
116.00	24.1	24.1	21.5	21.5	19.5	19.5	17.8	17.8	16.4	16.4	-	-	-	-	-	-	-	-
122.00	20.7	20.7	18.4	18.4	16.7	16.7	15.2	15.2	-	-	-	-	-	-	-	-	-	-
128.00	17.9	17.9	15.9	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134.00	15.6	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Chart #2

Number of anchor locations required																		
Frame Height (in)	Frame Unit Width (in)																	
	48.0		54.0		58.0		66.0		70.0		78.0		82.0		90.0		96.0	
	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb
80.0	5	6	5	6	5	6	5	6	5	6	6	6	6	6	6	6	7	6
86.0	5	6	5	6	5	6	5	6	5	6	6	6	6	6	6	6	7	6
92.0	5	6	5	6	5	6	5	6	5	6	5	6	6	6	6	6	7	6
93.75	5	7	5	7	5	7	5	7	5	7	5	7	6	7	6	7	7	7
98.0	5	7	5	7	5	7	5	7	5	7	5	7	6	7	6	7	-	-
104.0	4	7	4	7	4	7	5	7	5	7	5	7	6	7	-	-	-	-
110.0	4	8	4	8	4	8	5	8	5	8	5	8	-	-	-	-	-	-
116.0	3	8	4	8	4	8	5	8	5	8	-	-	-	-	-	-	-	-
122.0	3	8	4	8	4	8	5	8	-	-	-	-	-	-	-	-	-	-
128.0	3	9	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134.0	3	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SIGNED: 11/11/2020

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

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
96" X 96" NON-IMPACT
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03239

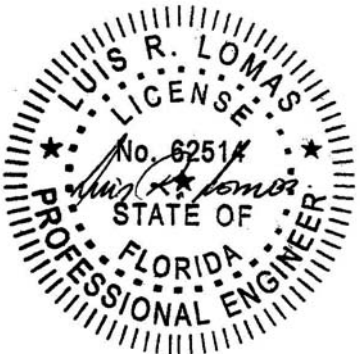
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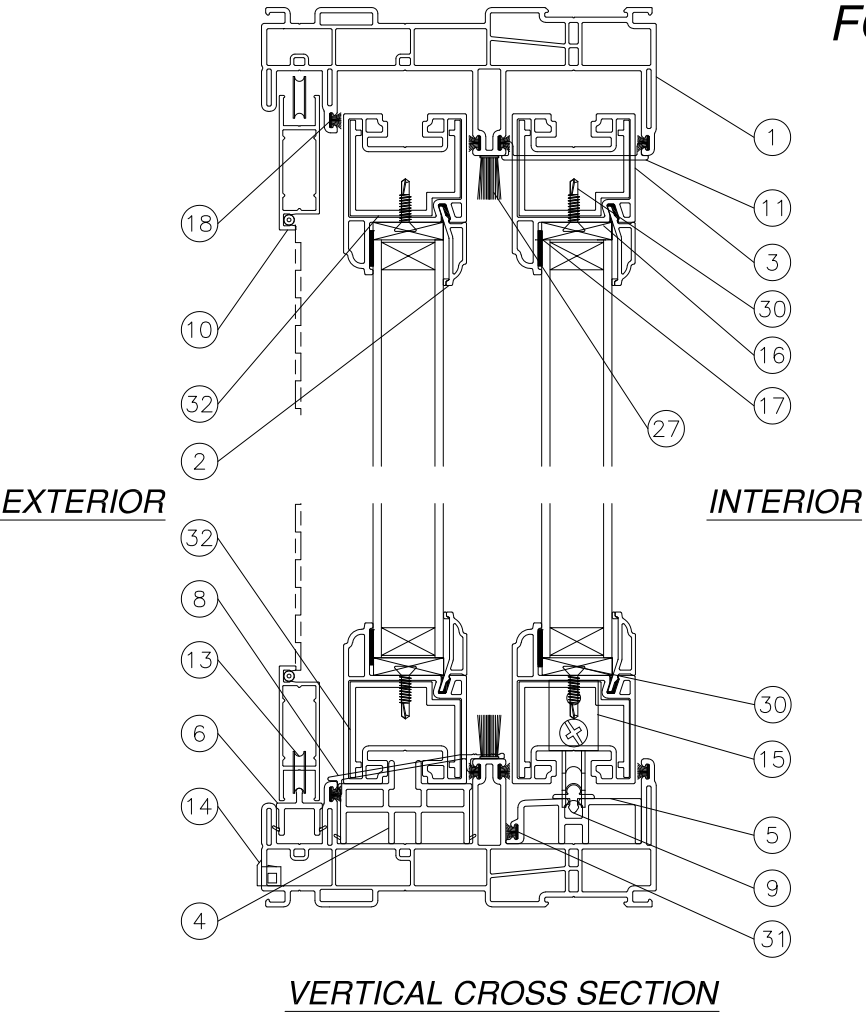
SHEET 3 OF 12

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1432 WOODFORD RD LEWISVILLE, NC 27023
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BILL OF MATERIALS				
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	S003	FRAME	ENERGI	RIGID PVC
2	S021	1" GLAZING BEAD	ENERGI	RIGID PVC
3	S019	SASH	ENERGI	RIGID PVC
4	S008	SUPPORT BLOCK	ENERGI	RIGID PVC
5	S018	SILL ADAPTER	ENERGI	RIGID PVC
6	7059	SCREEN ADAPTER	ENERGI	RIGID PVC
7	S080	SNAP-ON MEETING RAIL	ENERGI	RIGID PVC
8	S-14307	SILL	ENERGI	ALUMINUM 6063-T5
9	S-17877	SASH RAIL	ENERGI	ALUMINUM 6063-T5
10		SCREEN	ENERGI	ALUMINUM 6063-T5
11	S029	SASH STOP	ENERGI	RIGID PVC
12	S019	SASH REINFORCEMENT		STEEL
13		SCREEN ROLLER		NYLON
14	110-2550-10	WEEP COVER	RO-MAI	
15		TANDEM ROLLER		
16		SETTING BLOCK (80 HARDNESS)		
17		1/2" GLAZING TAPE	JACOBS & THOMPSON	
18	HF-7320-187	WEATHER STRIP	SCHLEGEL	
19	SS-6945	WEATHER STRIP	SCHLEGEL	
20		INT & EXT SCREEN HANDLE		
21		SCREEN KEEPER		
22		SASH KEEPER		
23		INT & EXT SASH HANDLE		
24		#6 X 1/2" SCREEN KEEPER SCREWS		
25		#8 X 5/8" SASH KEEPER SCREWS		
26		#6 X 1" FIXED SASH SCREWS		
27	T5927AMW	6" WEATHER STRIP	ULTRAFAB	
28	EAQ705	SCREW PLUG		
29	S030	LOCK SIDE MOLDING	ROYAL	
30		#8 X 3/4" REINFORCEMENT SCREWS		
31	PB-8322-187	WEATHER STRIP	SCHLEGEL	
32	S-15463	SASH REINFORCEMENT	EXTRUDEX	ALUMINUM 6063-T5



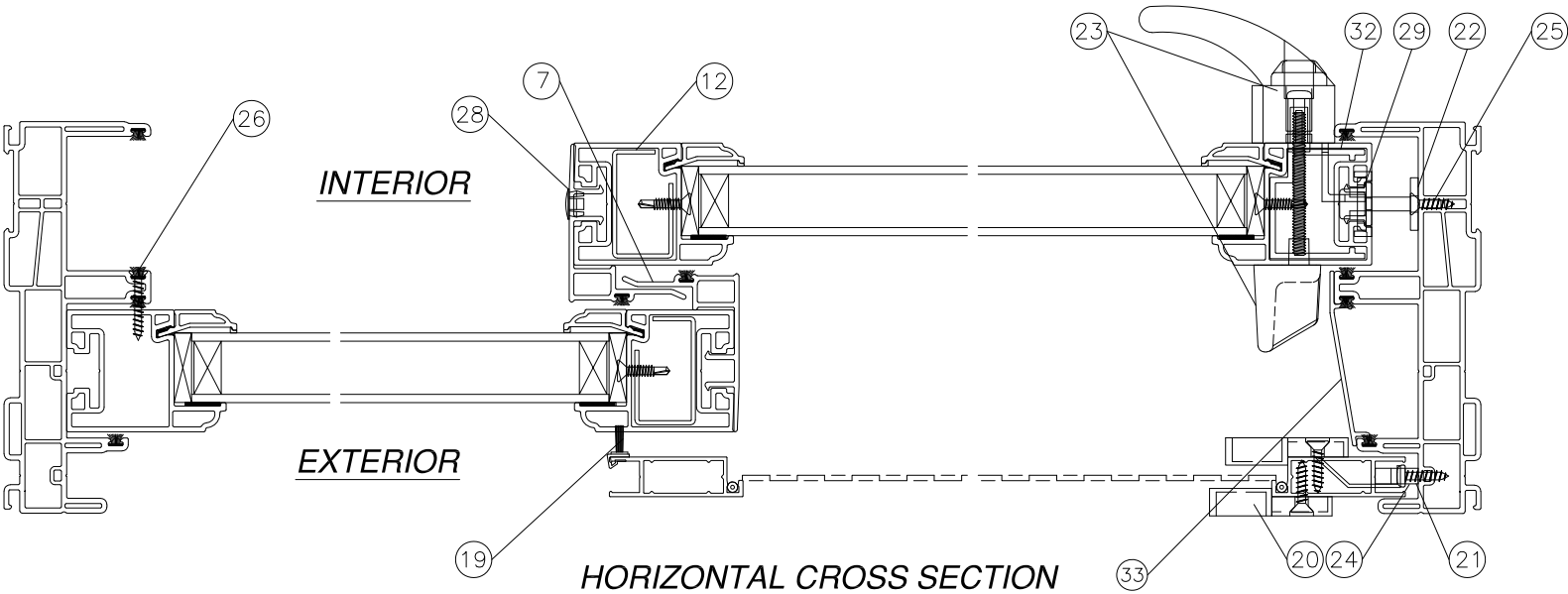
VERTICAL CROSS SECTION

EXTERIOR

INTERIOR

OPTIONAL FIN FRAME

NOTES:
1. INSTALL SILICONE 4" @ CORNERS
BEFORE INSERTING GLAZING BEAD.



HORIZONTAL CROSS SECTION

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FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS
REFER TO SHEETS 4 - 10

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

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
96" X 96" NON-IMPACT
CROSS SECTIONS AND B.O.M.

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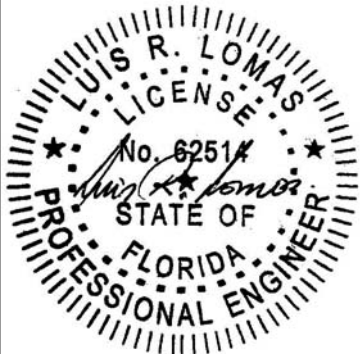
SCALE
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DATE
04/12/18

SHEET
4 OF 12

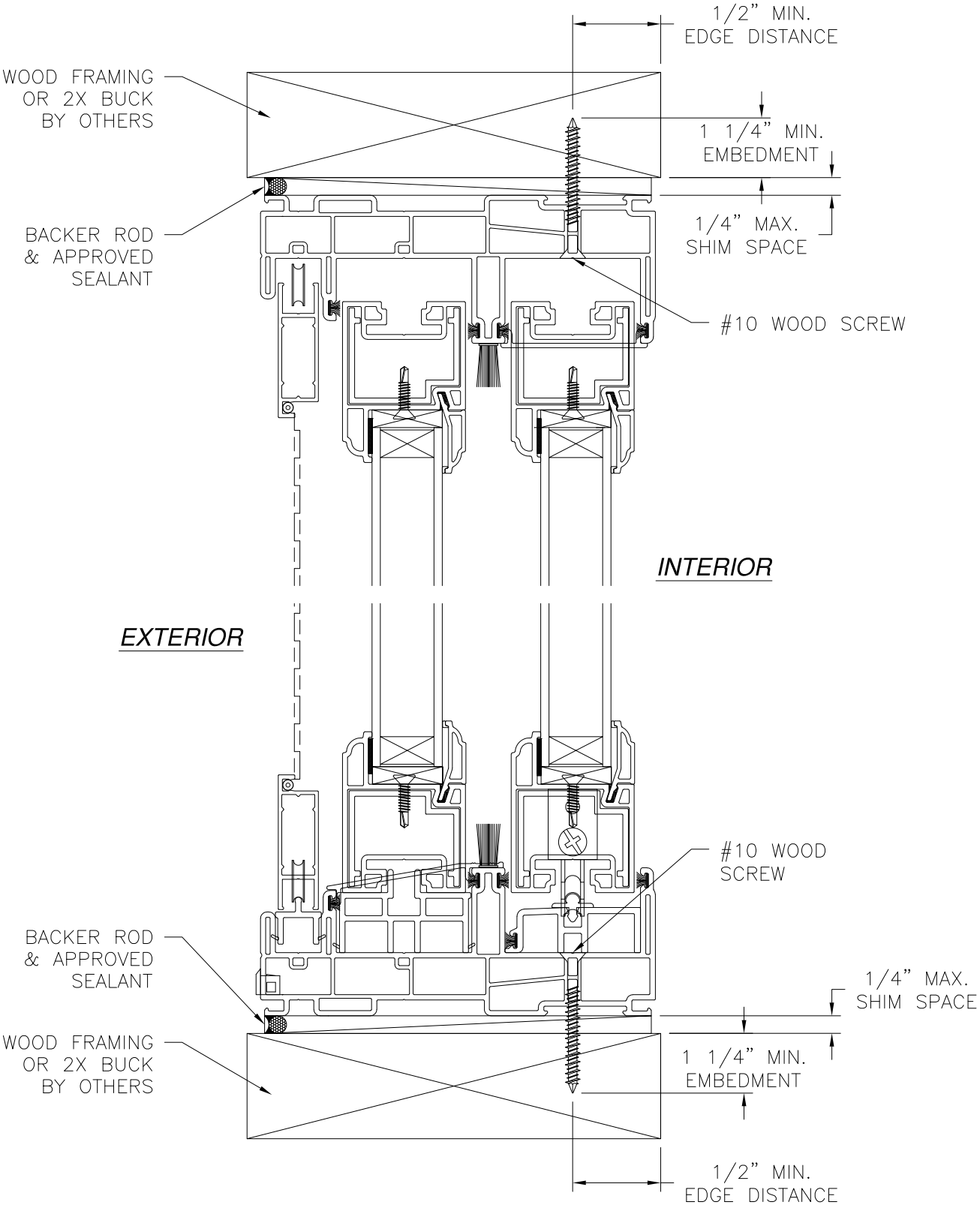
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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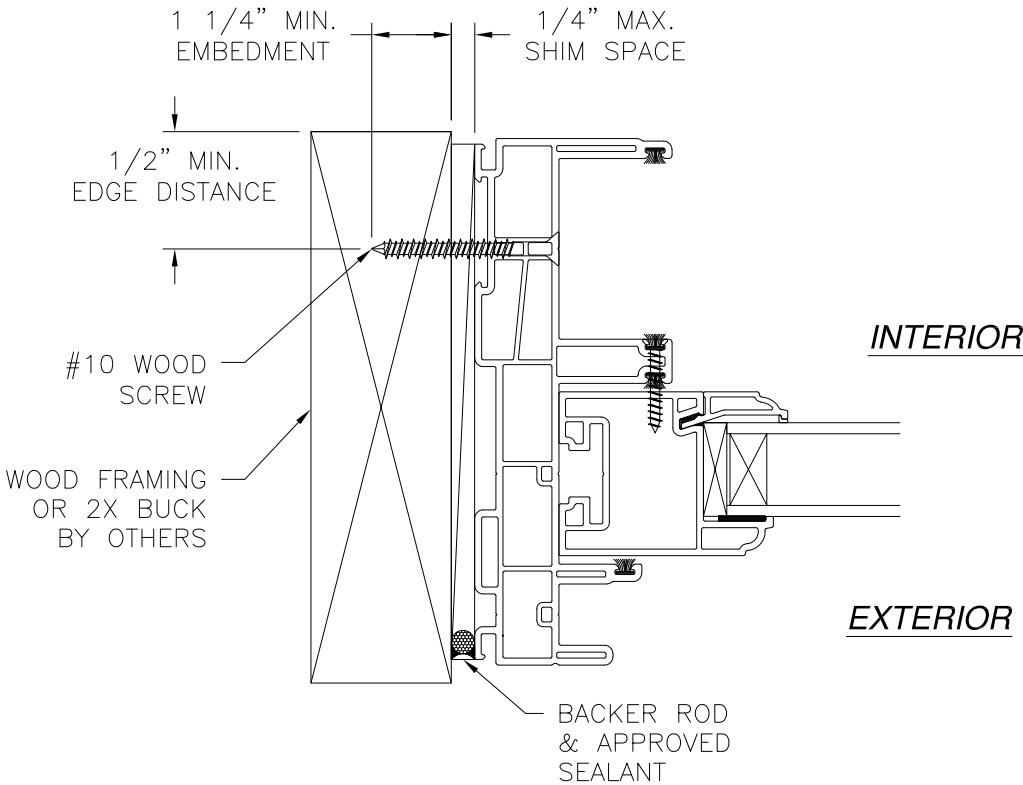


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FL No.: 62514

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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

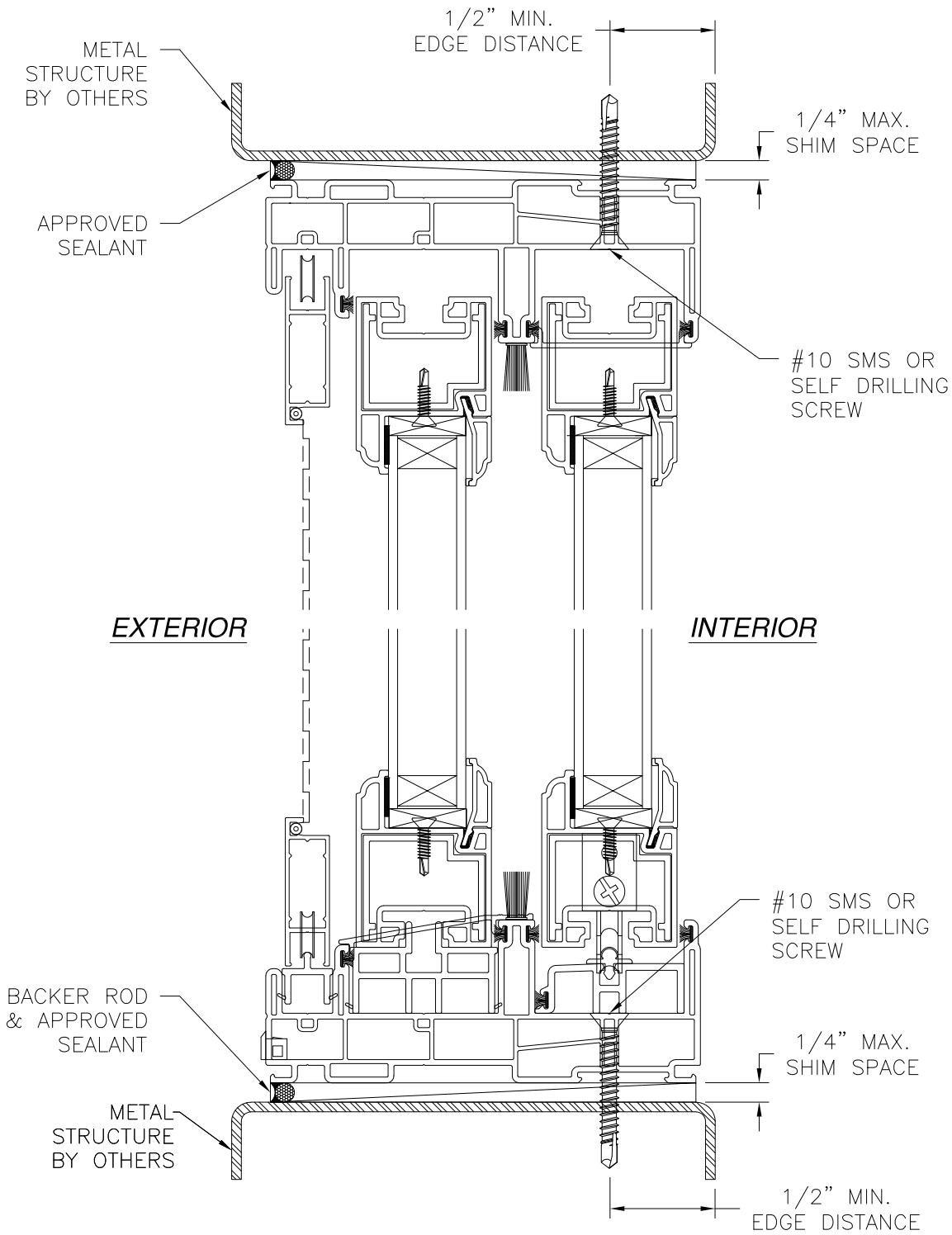
SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 96" X 96" NON-IMPACT FRAME INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03239	REV A
SCALE NTS	DATE 04/12/18	SHEET 5 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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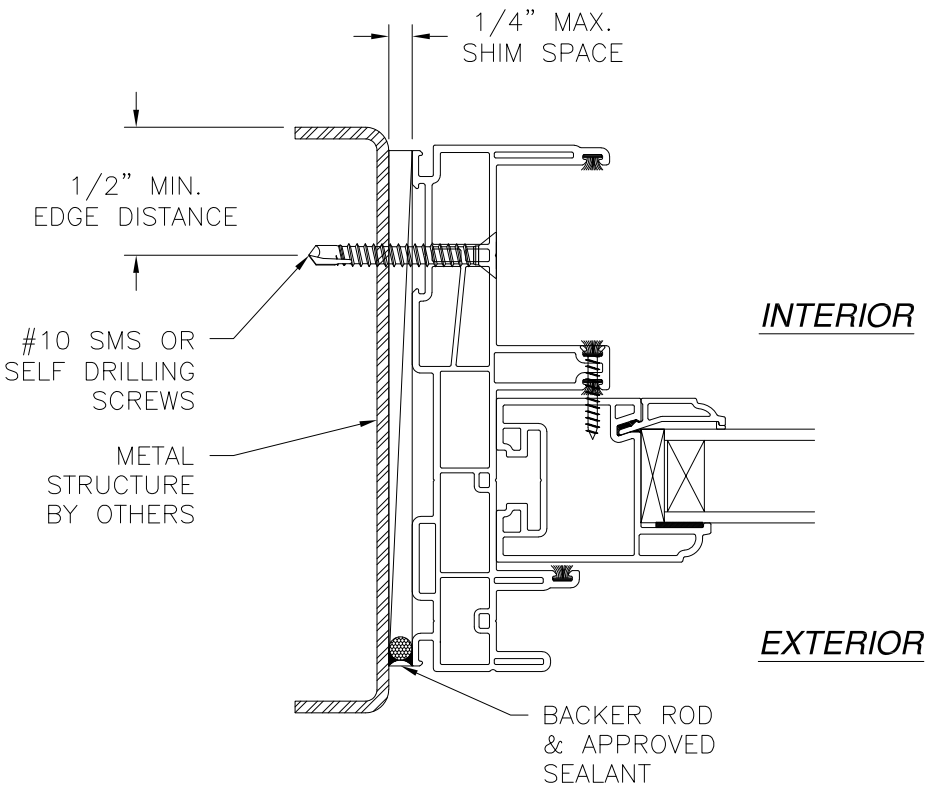
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)

96" X 96" NON-IMPACT
FRAME INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03239

REV A

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DATE 04/12/18

SHEET 6 OF 12

L. ROBERTO LOMAS P.E.

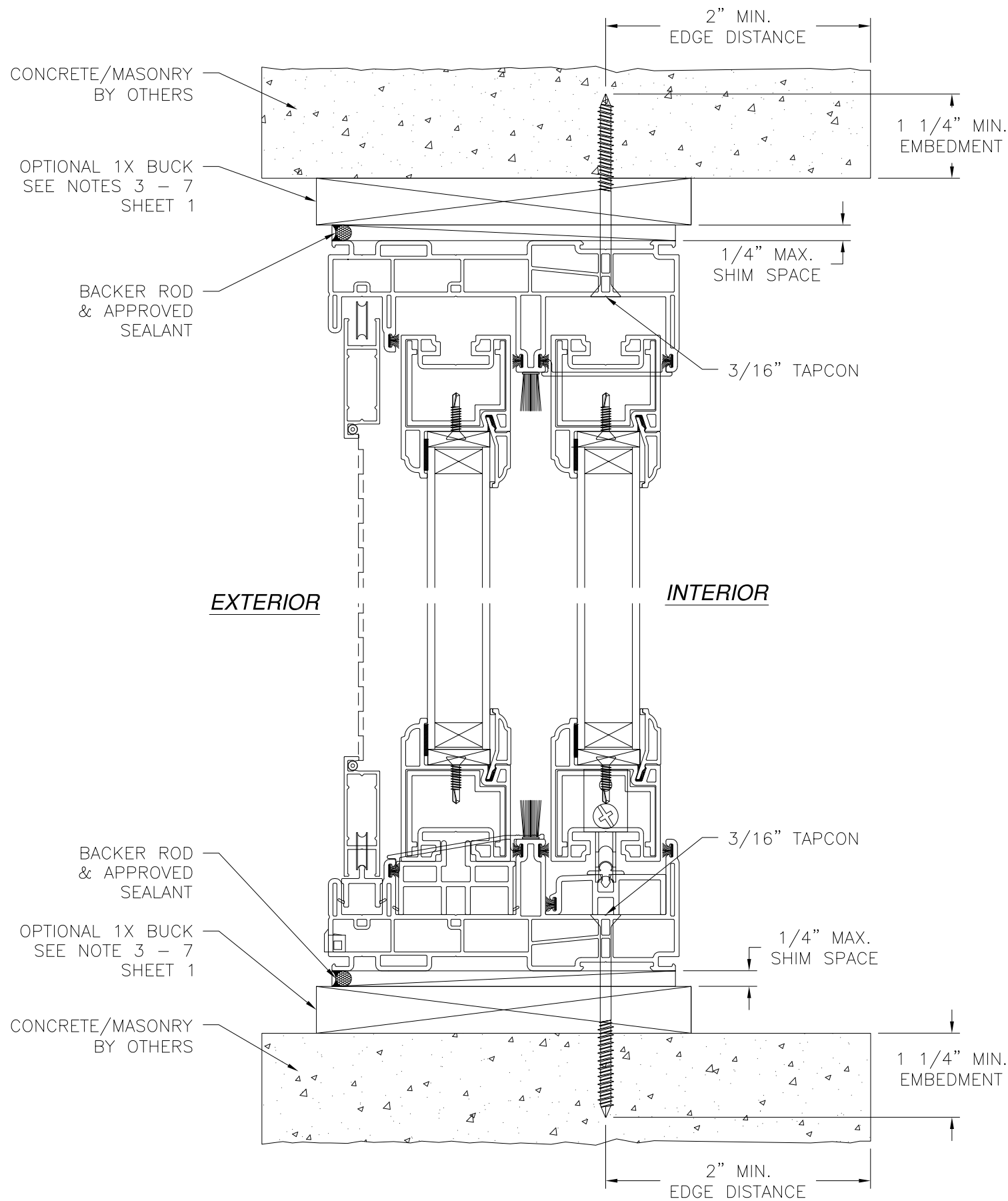
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434-688-0609 rllomas@lrlomaspe.com

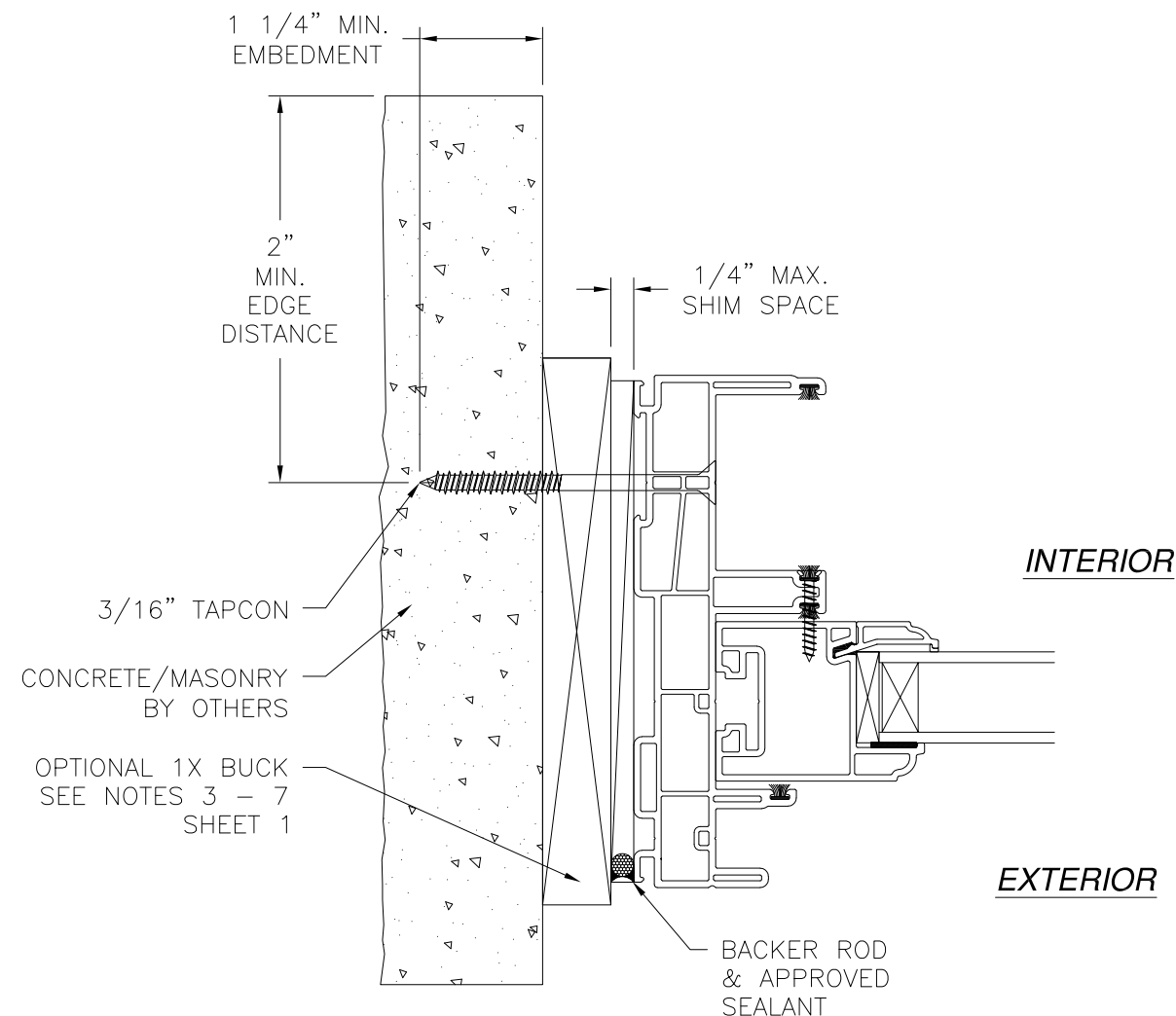
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

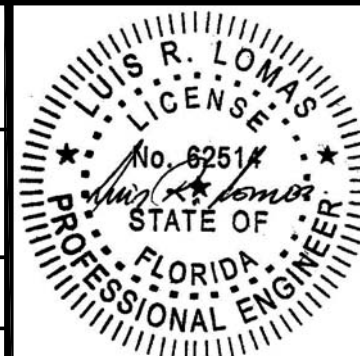


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- NOTES:**
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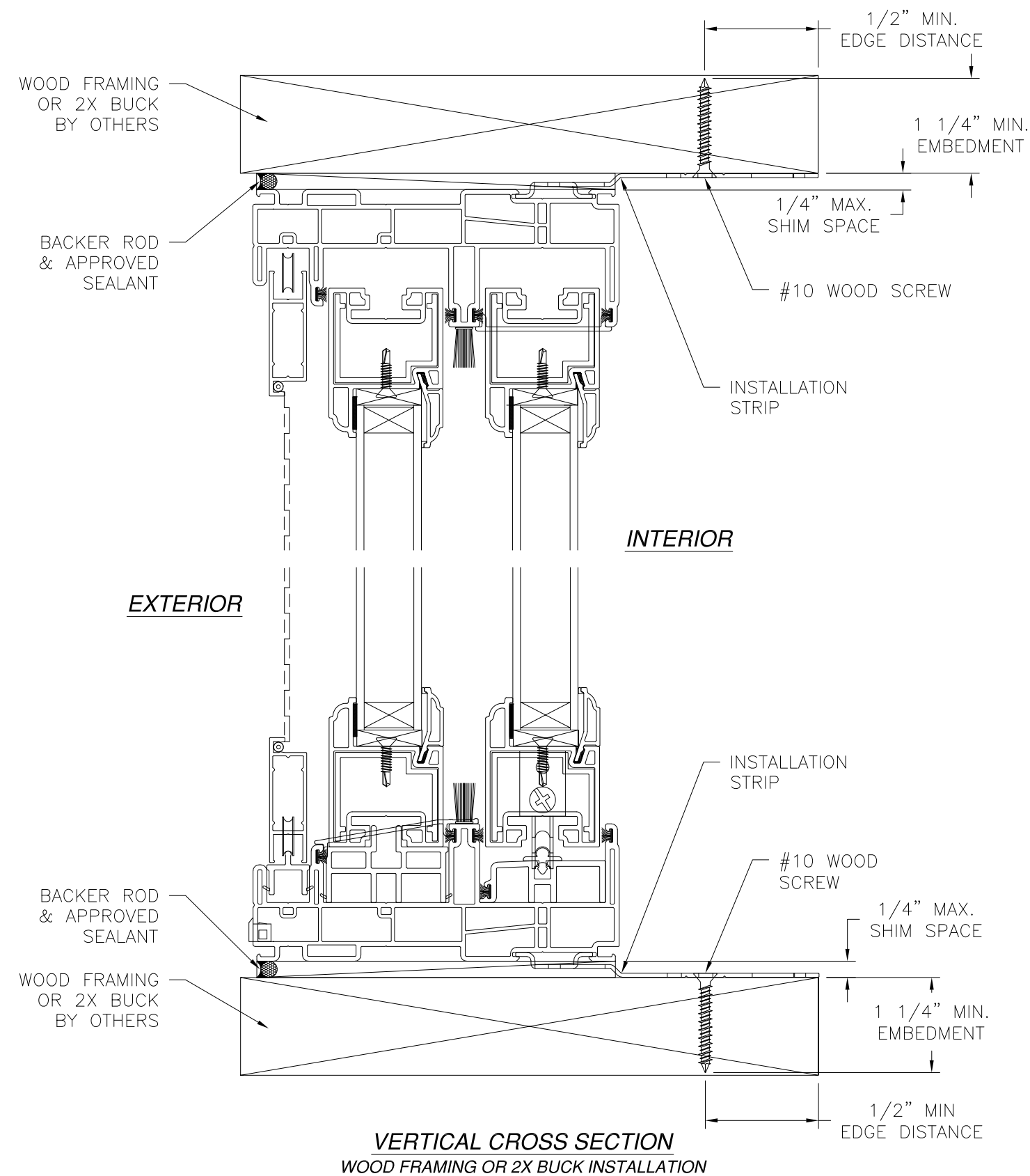
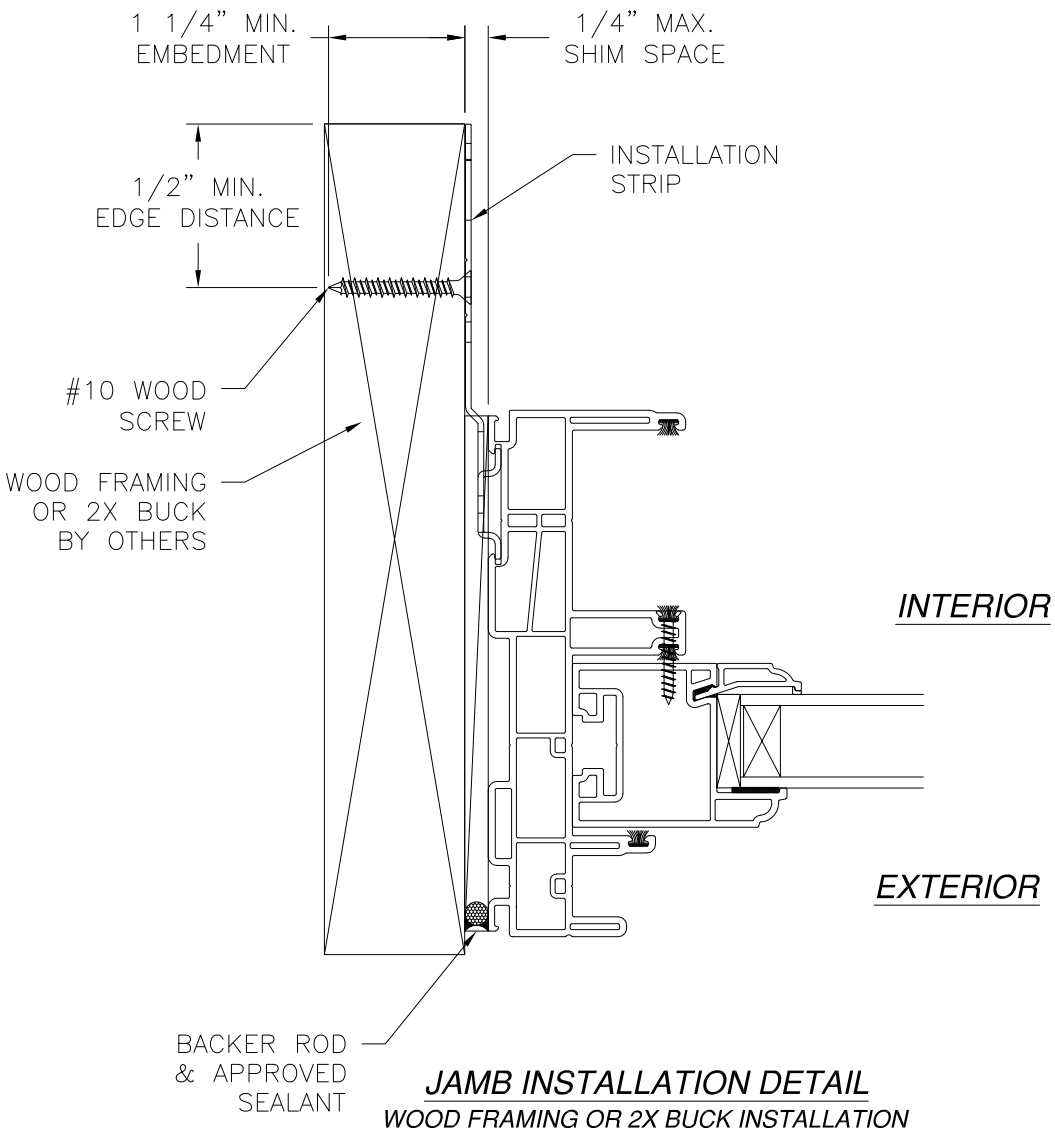
SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 96" X 96" NON-IMPACT FRAME INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03239	REV A
SCALE NTS	DATE 04/12/18	SHEET 7 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)

96" X 96" NON-IMPACT
STRIP INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03239

REV A

SCALE NTS

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SHEET 8 OF 12

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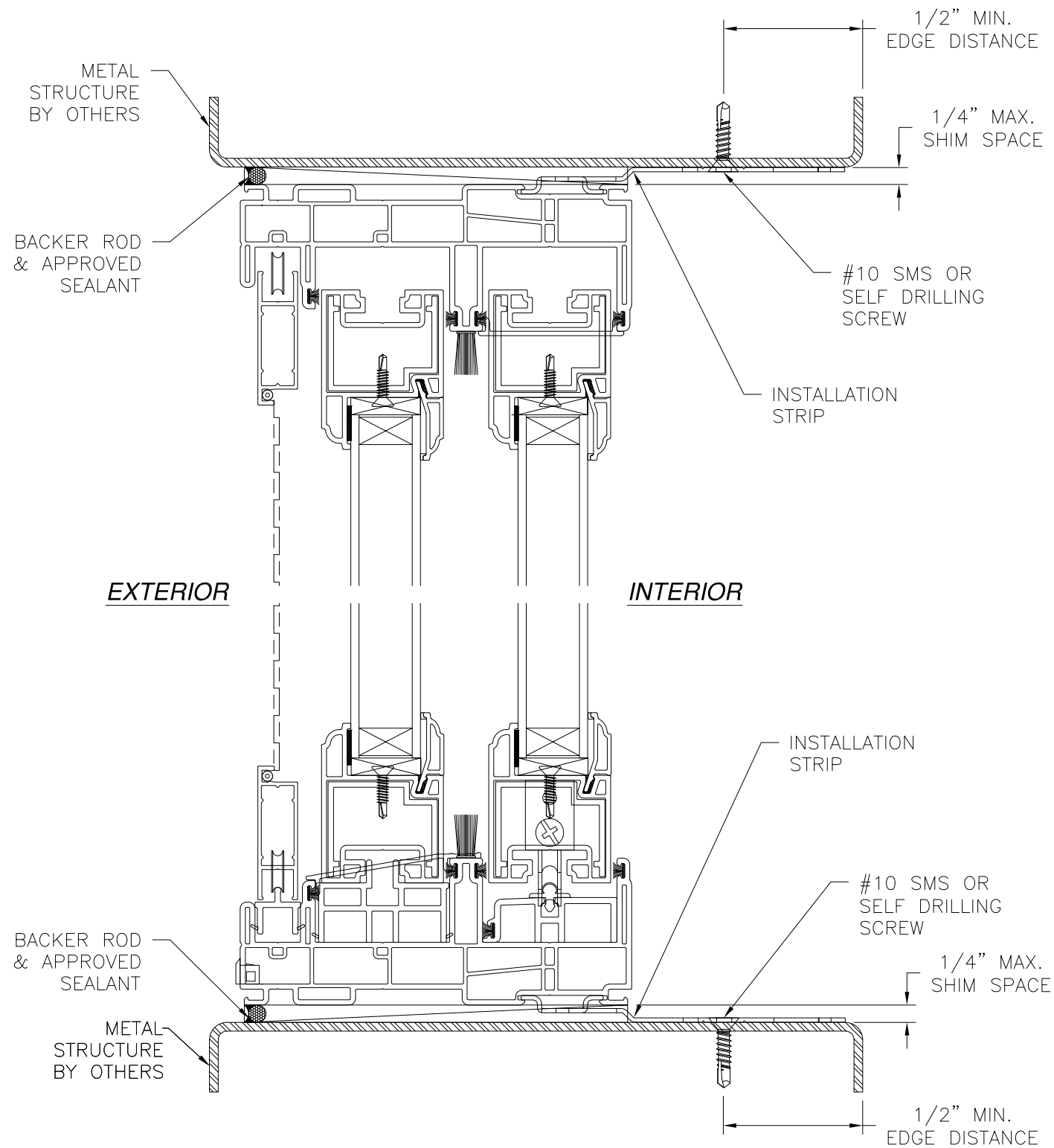
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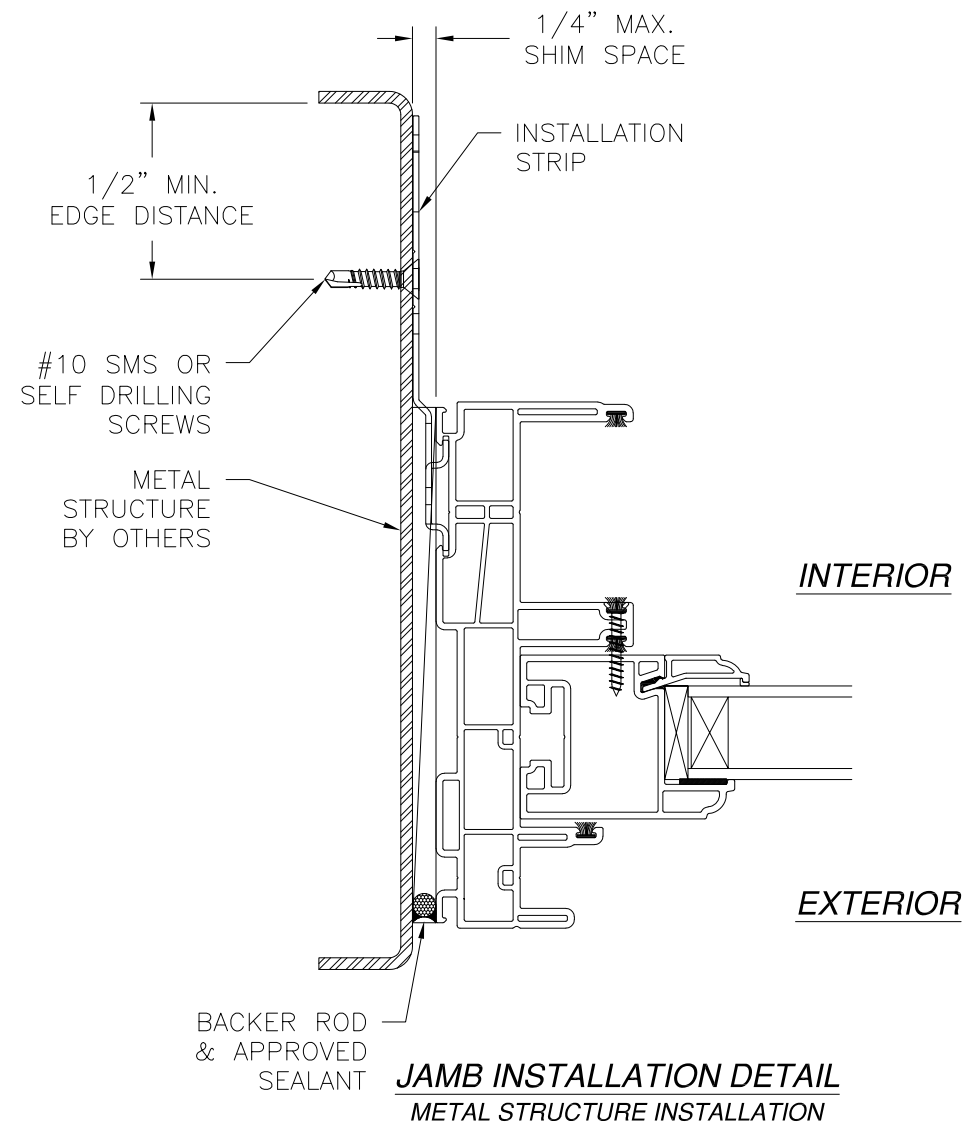
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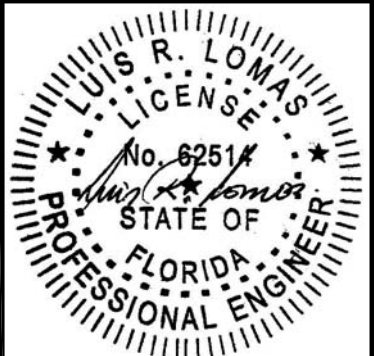
VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

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

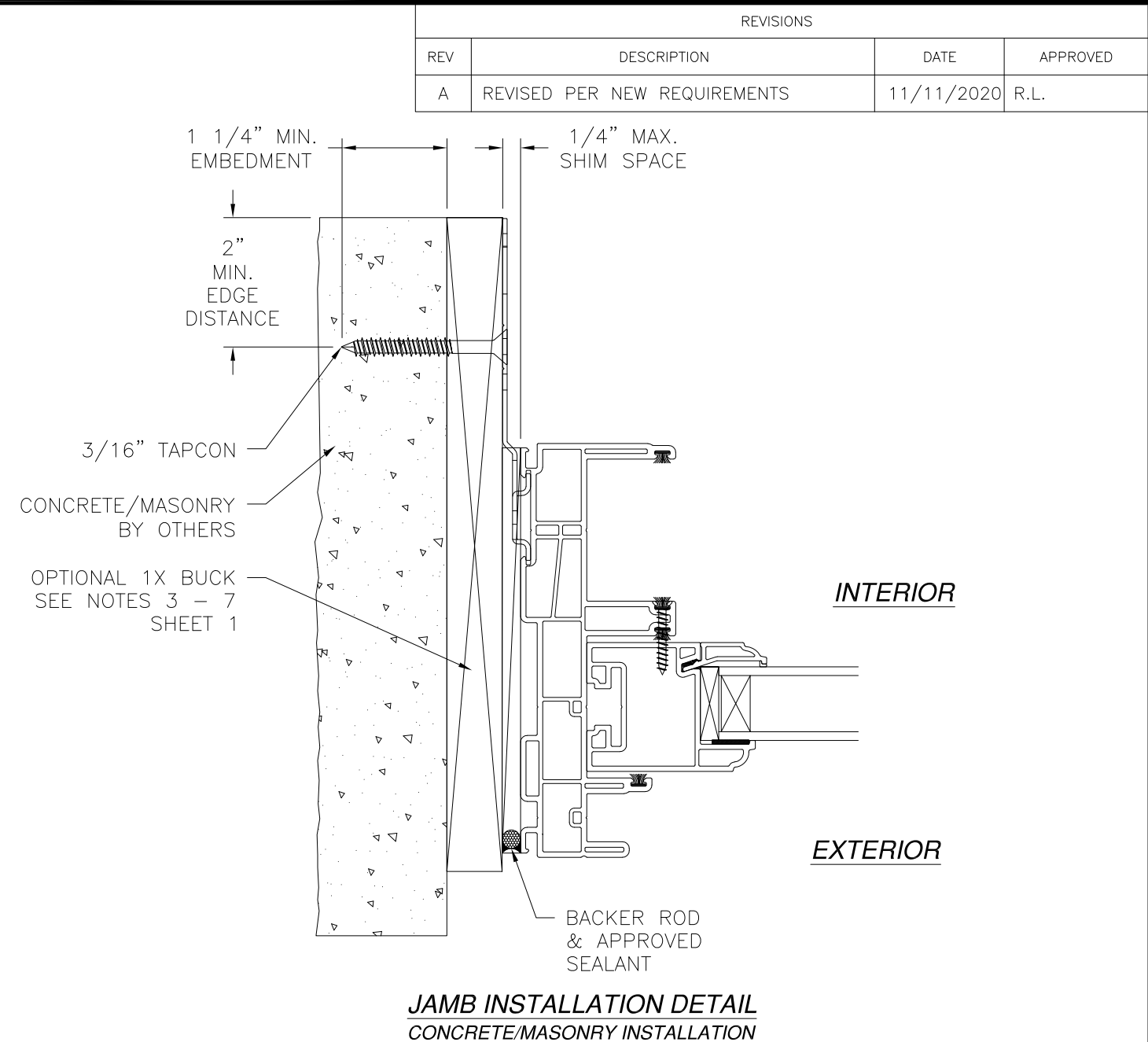
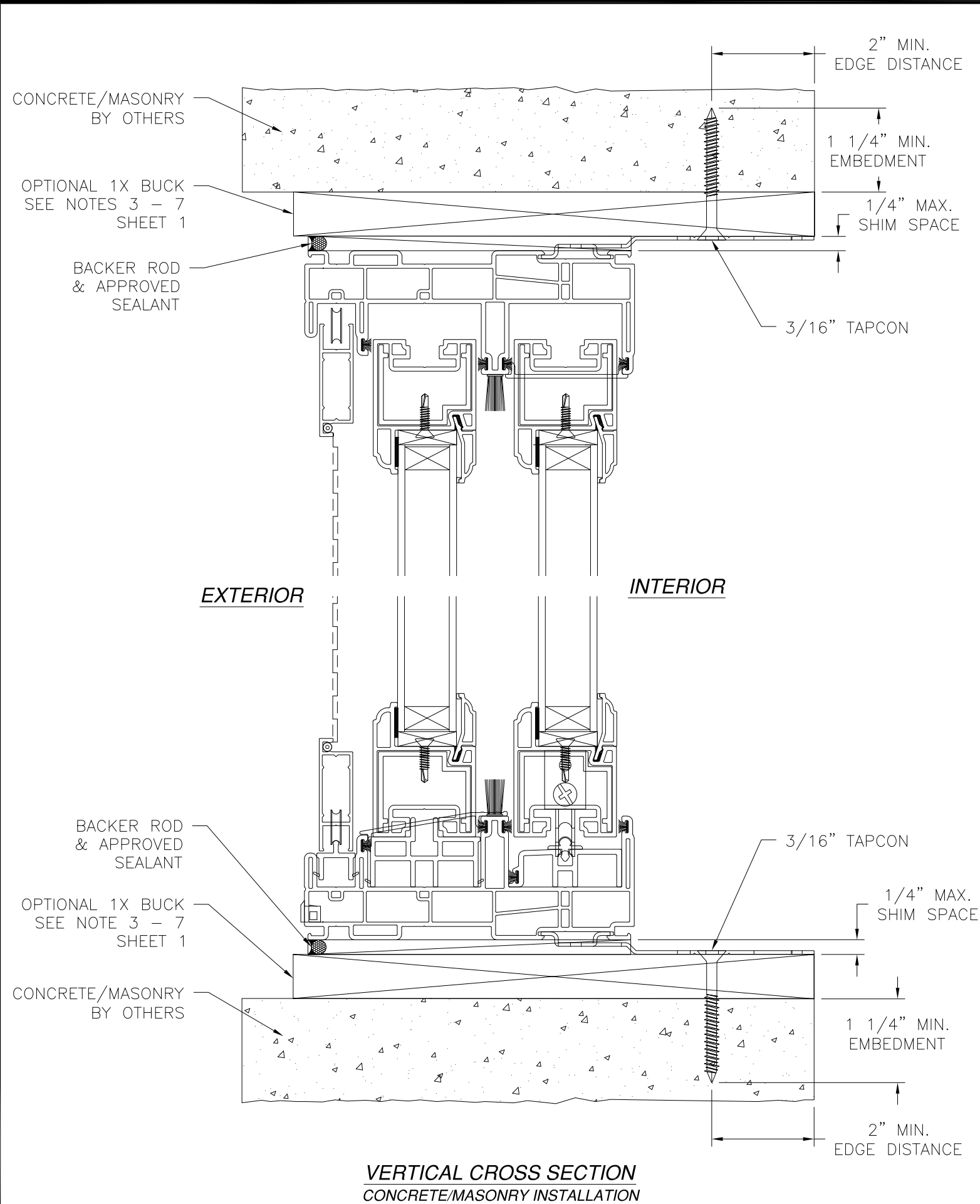


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SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 96" X 96" NON-IMPACT STRIP INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03239	REV A
SCALE NTS	DATE 04/12/18	SHEET 9 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



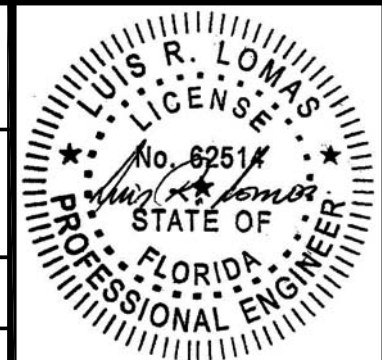
Luis R. Lomas P.E.
FL No.: 62514



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

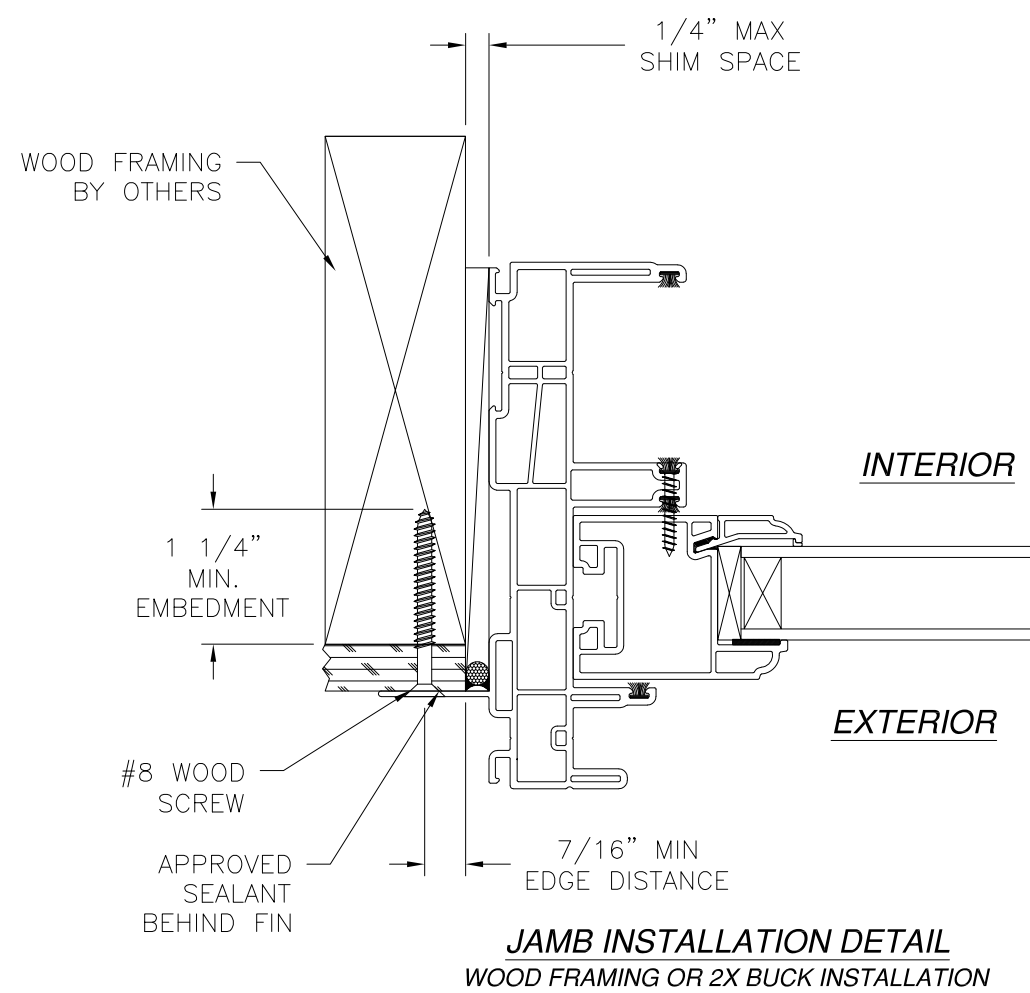
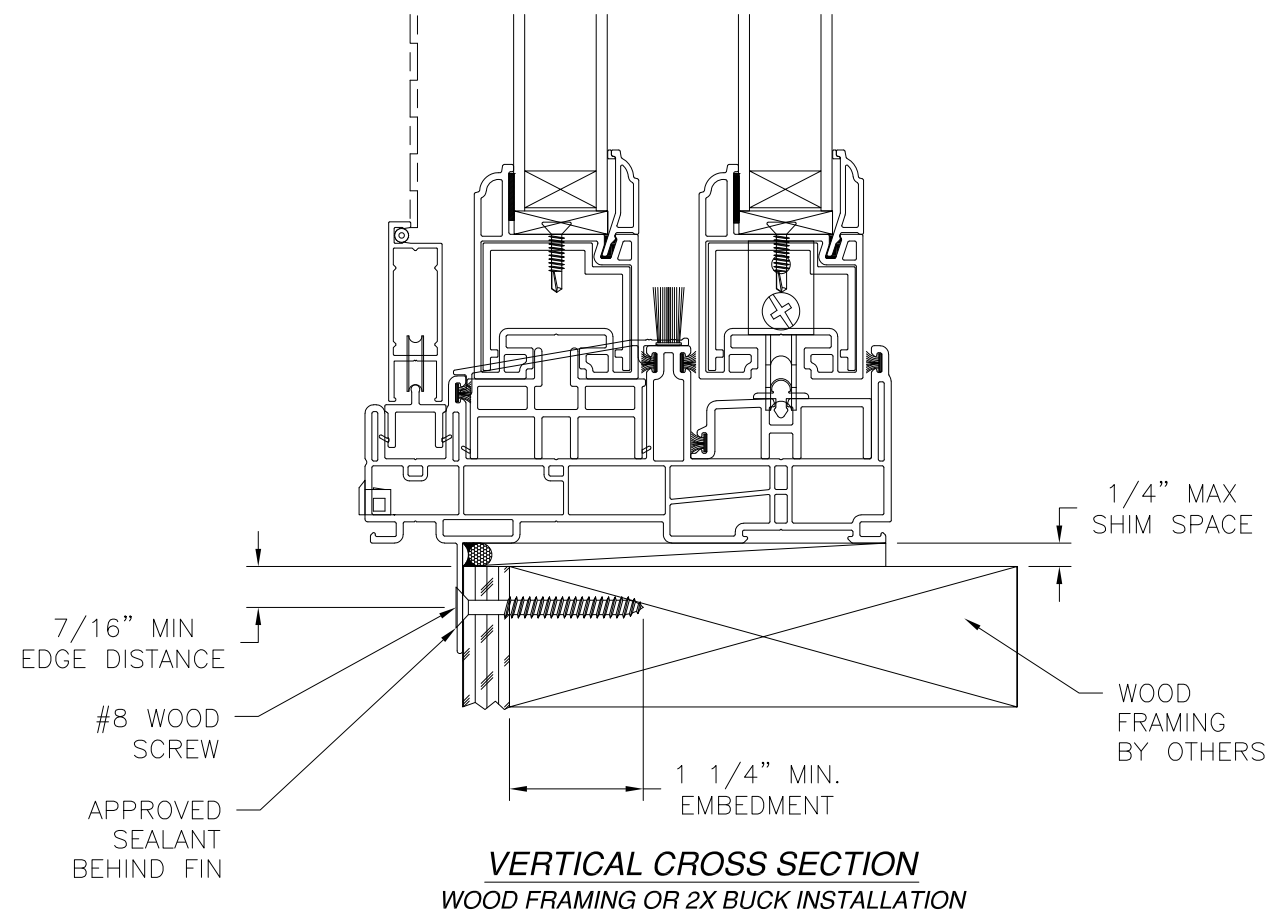
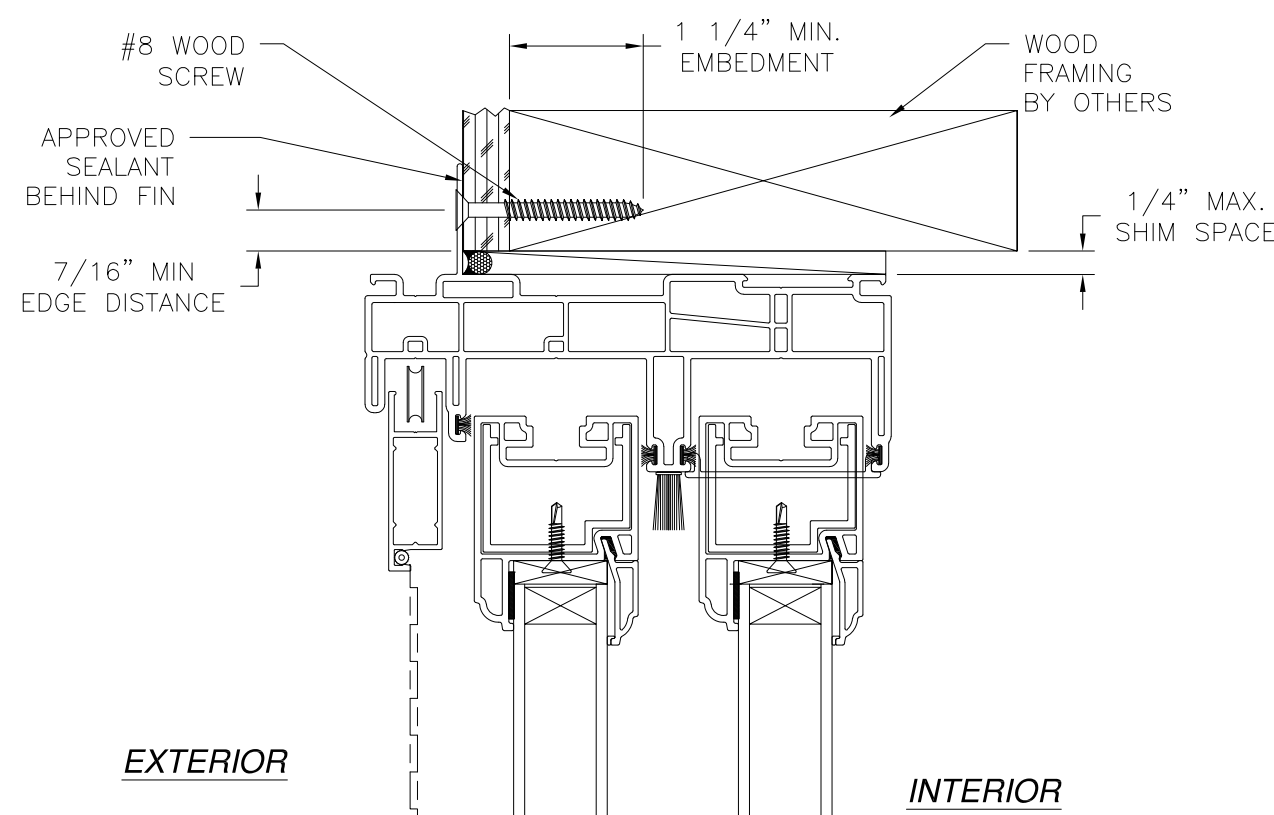
SIGNED: 11/11/2020

SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI4100V VINYL COMPOSITE SGD (OX & XO) 96" X 96" NON-IMPACT STRIP INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03239	REV A
SCALE NTS	DATE 04/12/18	SHEET 10 OF 12
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/11/2020	R.L.



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: 11/11/2020

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)

96" X 96" NON-IMPACT
FIN INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03239

REV A

SCALE NTS

DATE 04/12/18

SHEET 11 OF 12

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS

LICENS. M. S.

No. 62514

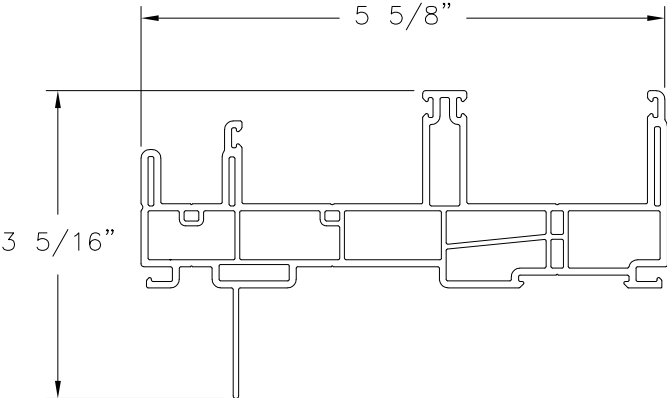
STATE OF FLORIDA

PROFESSIONAL ENGINEER

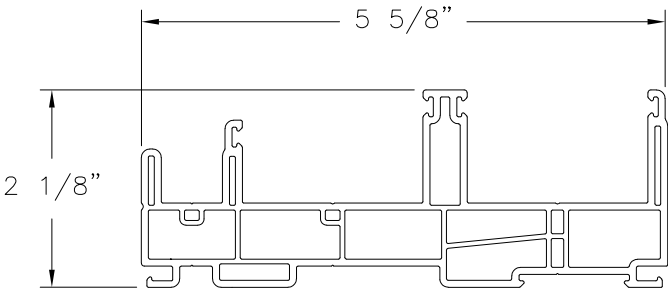
Luis R. Lomas P.E.

FL No.: 62514

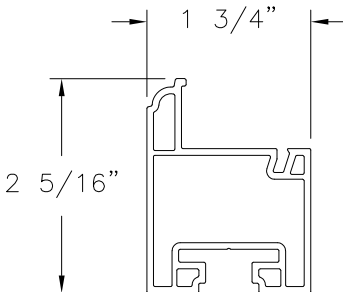
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW REQUIREMENTS	11/11/2020	R.L.



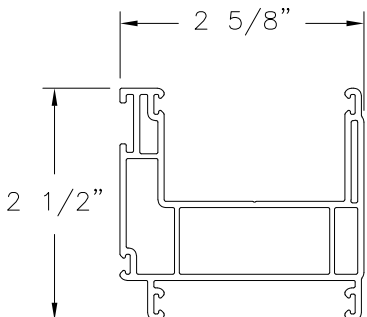
① **HEAD, JAMB AND SILL FRAME**
WITH FIN INSTALLATION
RIGID PVC (RH-S003C)



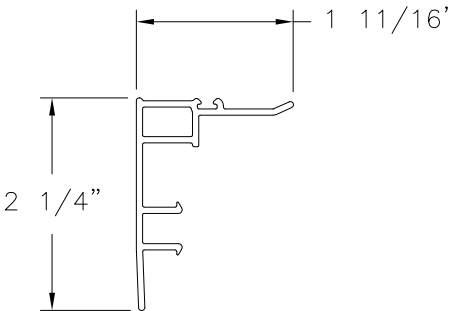
① **HEAD, JAMB AND SILL FRAME**
WITHOUT FIN INSTALLATION
RIGID PVC (RH-S003C)



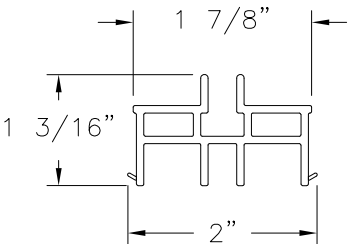
③ **SASH**
RIGID PVC (RH-S019)



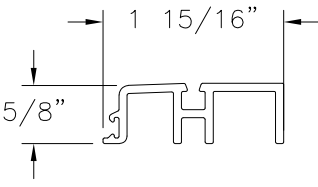
③③ **INSIDE ASTRAGAL**
RIGID PVC (RH-S083)



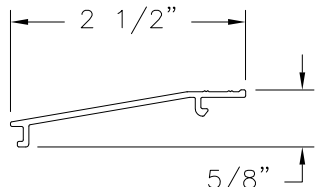
⑦ **SNAP-ON MEETING RAIL**
RIGID PVC (RH-S080)



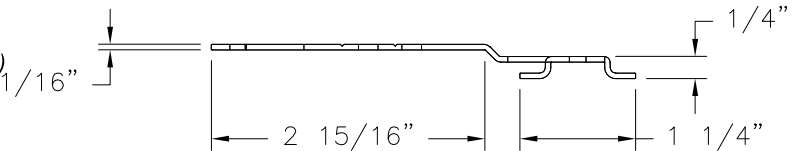
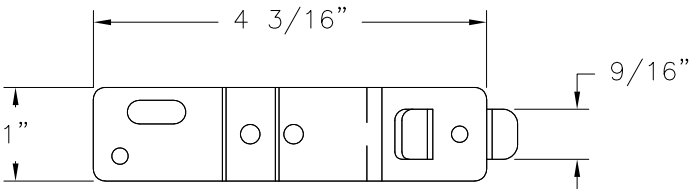
④ **SUPPORT BLOCK**
RIGID PVC (RH-S008)



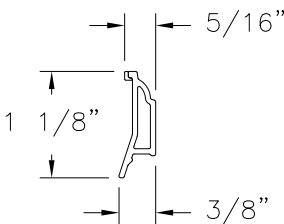
⑤ **SILL ADAPTOR**
RIGID PVC (RH-S018)



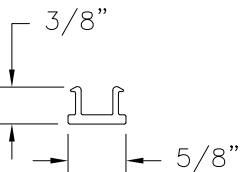
⑧ **SEUIL SILL**
EXTRUDED ALUMINUM (S-14307)



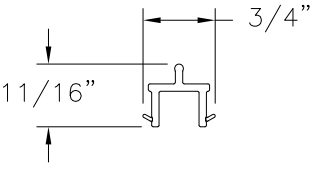
INSTALLATION STRIP
GALVANIZED STEEL G60



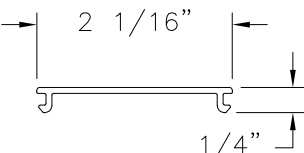
② **GLAZING BEAD**
RIGID PVC (S021)



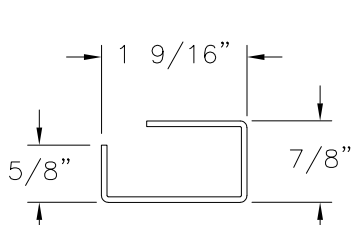
②⑨ **LOCK SIDE MOLDING**
RIGID PVC (RS-S030)



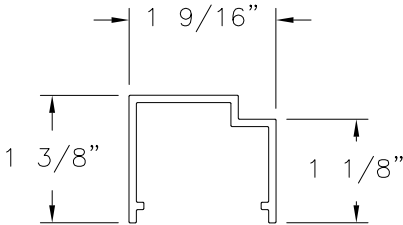
⑥ **SCREEN ADAPTOR**
RIGID PVC (L7059)



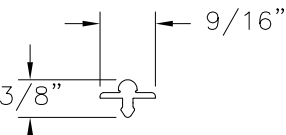
⑪ **SASH STOP**
RIGID PVC (RH-S029)



⑫ **SASH REINFORCEMENT**
STEEL (RF-S019)



③② **SASH REINFORCEMENT**
ALUMINUM 6063-T5 (S-15463)



⑨ **SASH RAIL**
EXTRUDED ALUMINUM (ES14616)

SIGNED: 11/11/2020

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31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD (OX & XO)
96" X 96" NON-IMPACT
COMPONENTS

DRAWN:

A.R.

DWG NO.

08-03239

REV

A

SCALE NTS

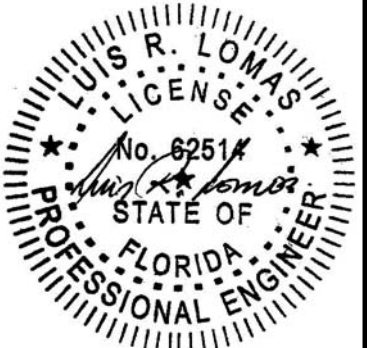
DATE

04/12/18

SHEET

12 OF 12

L. ROBERTO LOMAS P.E.
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