

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	05/14/15	R.L.
B	REVISED PER NEW REQUIREMENTS	03/13/18	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 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 E1300–04/09, 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 #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.
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 #8 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 3,192 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 .048” THICK MINIMUM
20. APPROVED CONFIGURATIONS: O/XO, O/OX.

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ENERGI FENESTRATION SOLUTIONS
1085 DES CHEMINOTS
TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SGD WITH TRANSOM
71” x 96” NON-IMPACT O/XO, O/OX
NOTES

DRAWN:
V.L.

DWG NO.
08–02331

REV
B

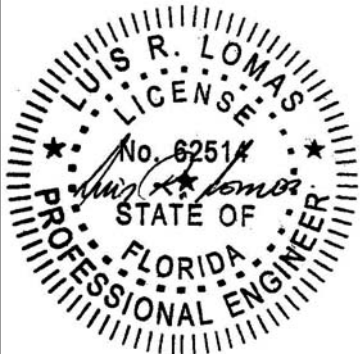
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DATE 05/06/14

SHEET 1 OF 11

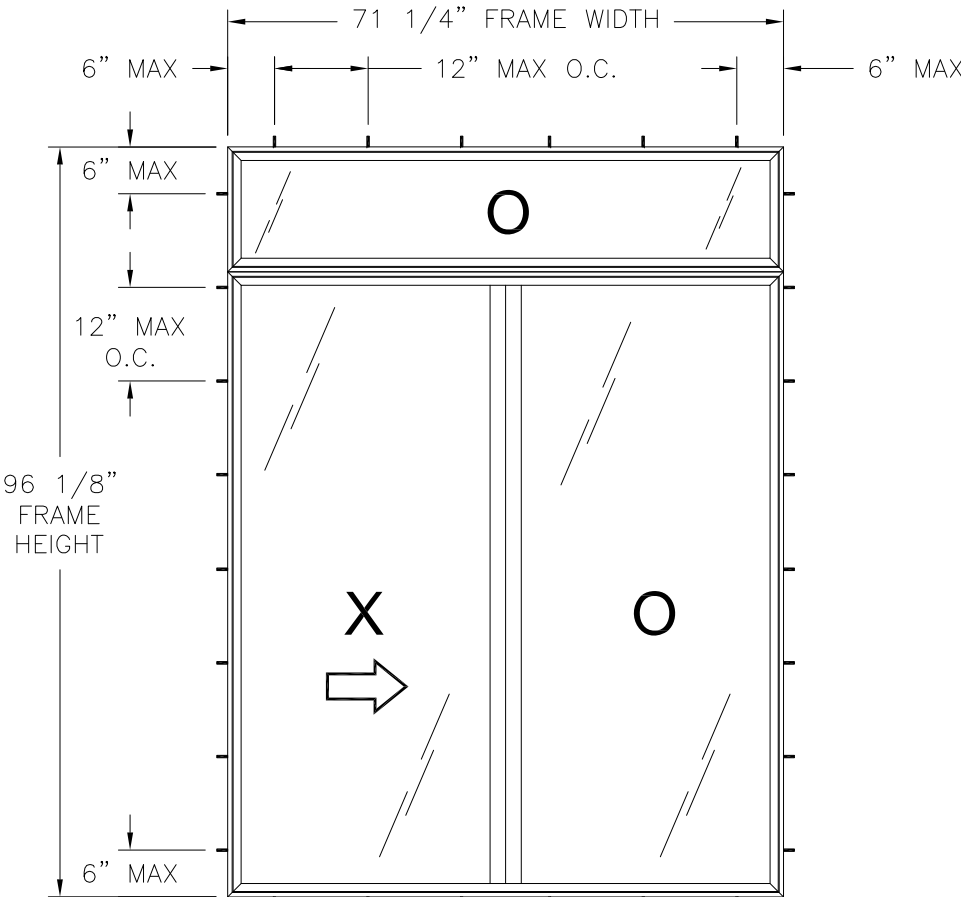
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

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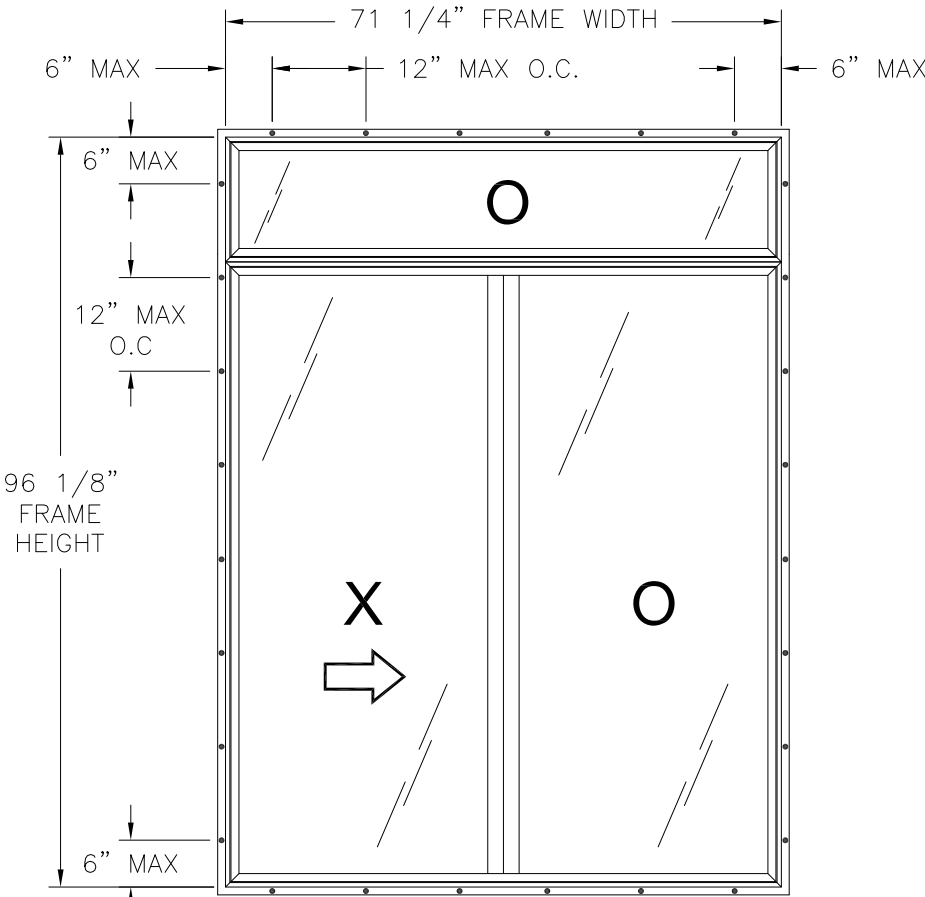


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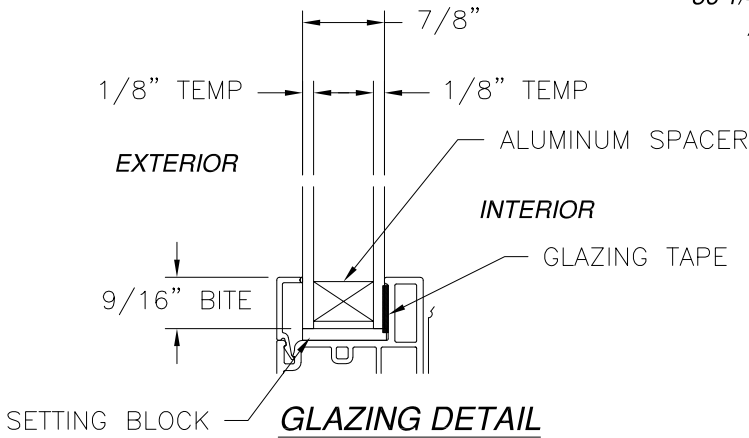
SERIES OPERA NG VINYL SGD WITH TRANSOM
EXTERIOR VIEW
FRAME INSTALLATION



SERIES OPERA NG VINYL SGD WITH TRANSOM
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
± 40.0 PSF	NONE

36 1/4" X 76 3/4" PANEL SHOWN. OTHER SIZES APPROVED AS LONG
AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 19.32 FT²



- NOTES:**
1. ACTIVE PANEL SIZE: 36 1/4" X 76 3/4"
 2. FIXED PANEL SIZE: 36 1/4" X 76 3/4"
 3. TRANSOM PANEL SIZE: 71 1/4" X 15 13/16"
 4. D.L.O. FOR DOOR PANELS: 31 1/2" X 72"
 5. D.L.O. FOR TRANSOM PANEL: 67 1/8" X 11 13/16"

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ELEVATIONS

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SCALE NTS DATE 05/06/14 SHEET 2 OF 11

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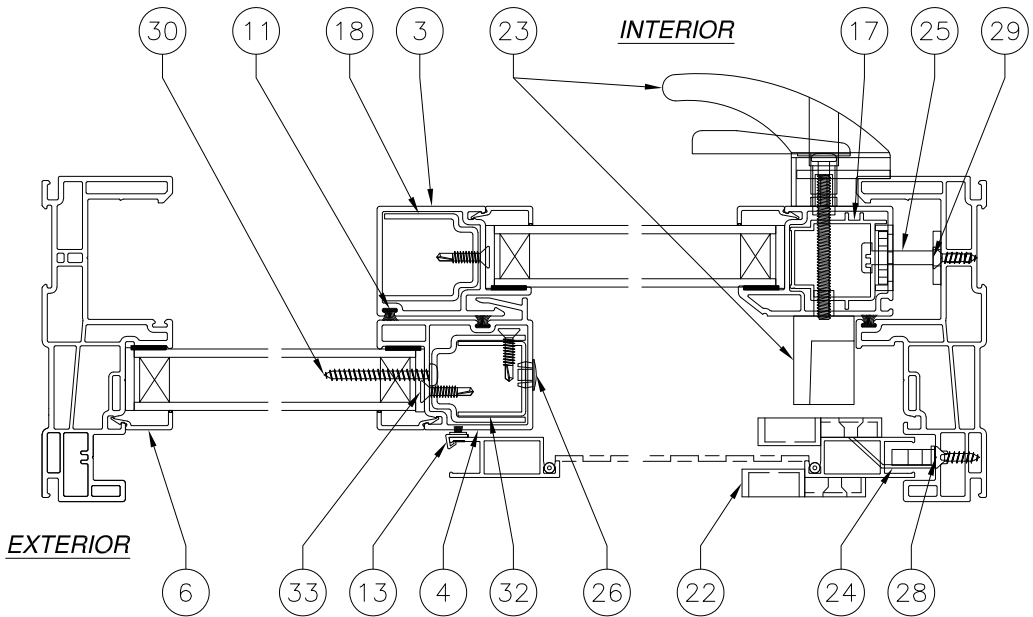


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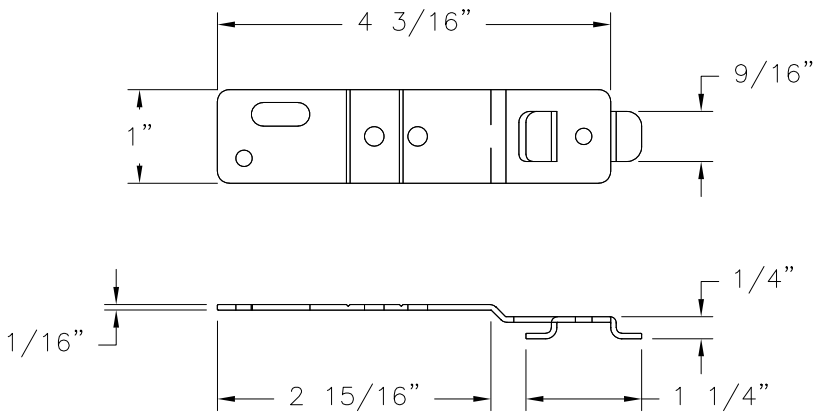
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ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	7060	FRAME	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
2	7076	OPERATING SASH	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
3	7080	OPERATING MEETING RAIL SASH	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
4	7054	FIXED MEETING RAIL SASH	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
5	7057	FIXED SASH	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
6	7021	7/8" GLAZING BEAD	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
7	7055	SILL ADAPTOR	ENERGI FENESTRATION SOLUTIONS	RIGID PVC
8	7059	SCREEN ADAPTOR	ENERGI FENESTRATION SOLUTIONS	ALUMINUM 6063-T5
9	7010	SASH STOP	ENERGI FENESTRATION SOLUTIONS	ALUMINUM 6063-T5
10	7018	HEAD BLOCK	ENERGI FENESTRATION SOLUTIONS	ALUMINUM 6063-T5
11	HF-7320-187	WEATHER STRIP	SCHLEGEL	
12	PB-8315-187	WEATHER STRIP	ULTRAFAB	
13		WEATHER STRIP		
14		12.7" X 1.6MM GLAZING TAPE		
15		ROLLING TRACK		
16		THRESHOLD		ALUMINUM 6063-T5
17		HANDLE REINFORCEMENT		ALUMINUM 6063-T5
18		MEETING RAIL REINFORCEMENT		STEEL
19		TANDEM ROLLER		
20		SCREEN ROLLER		
21		23" X 50.8" X 3.2MM SETTING BLOCK		
22		INT & EXT SCREEN HANDLE		
23		INT & EXT SASH HANDLE		
24		SCREEN KEEPER		
25		SASH KEEPER		
26		SCREW PLUG		
27	110-2550-10	VALVE	RO-MAI	
28		#8 X 5/8" FH SCREWS		
29		#8 X 5/8" FH SCREWS		
30		#8 X 1 1/2" FH SCREWS		
31		#8 X 2 1/2" FH SCREWS		
32		MEETING RAIL REINFORCEMENT		STEEL
33		#8 X 3/4" FH SCREWS		

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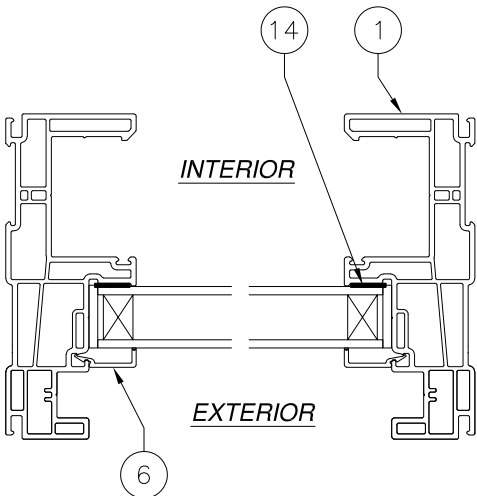
FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 5 - 11



HORIZONTAL CROSS SECTION



INSTALLATION STRIP
GALVANIZED STEEL G60



TRANSOM HORIZONTAL CROSS SECTION

ENERGI FENESTRATION SOLUTIONS
1085 DES CHEMINOTS
TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SGD WITH TRANSOM
71" x 96" NON-IMPACT O/XO, O/OX
B.O.M. AND CROSS SECTIONS

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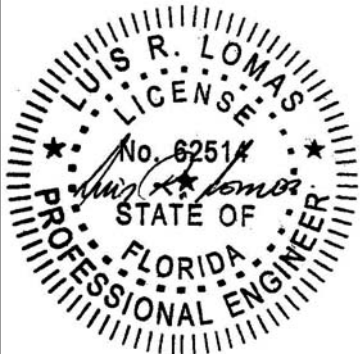
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SHEET 3 OF 11

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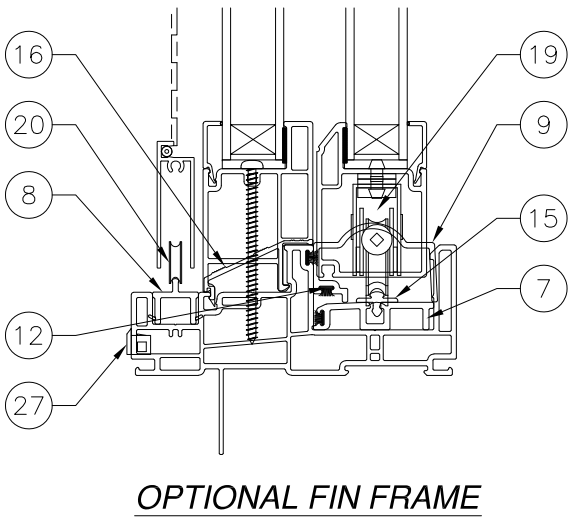
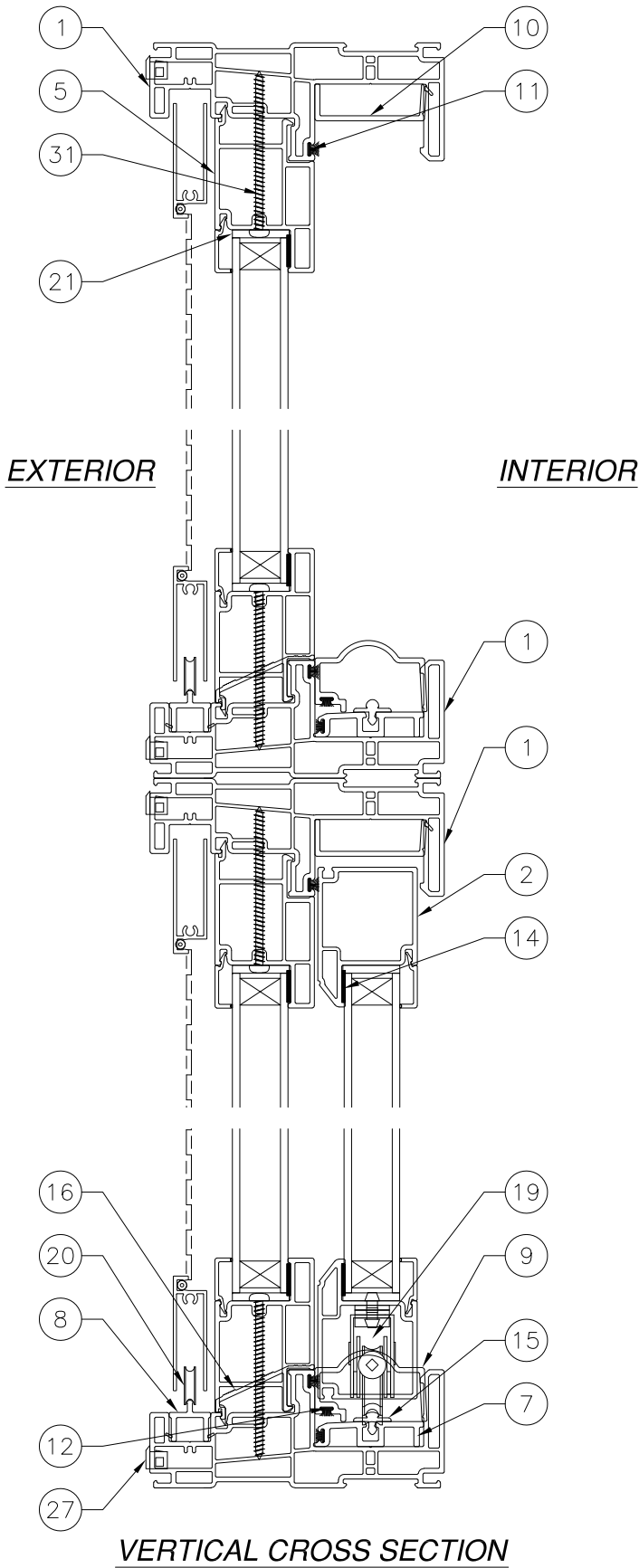
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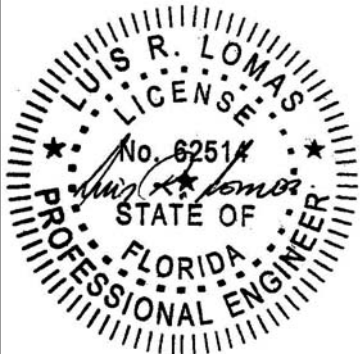
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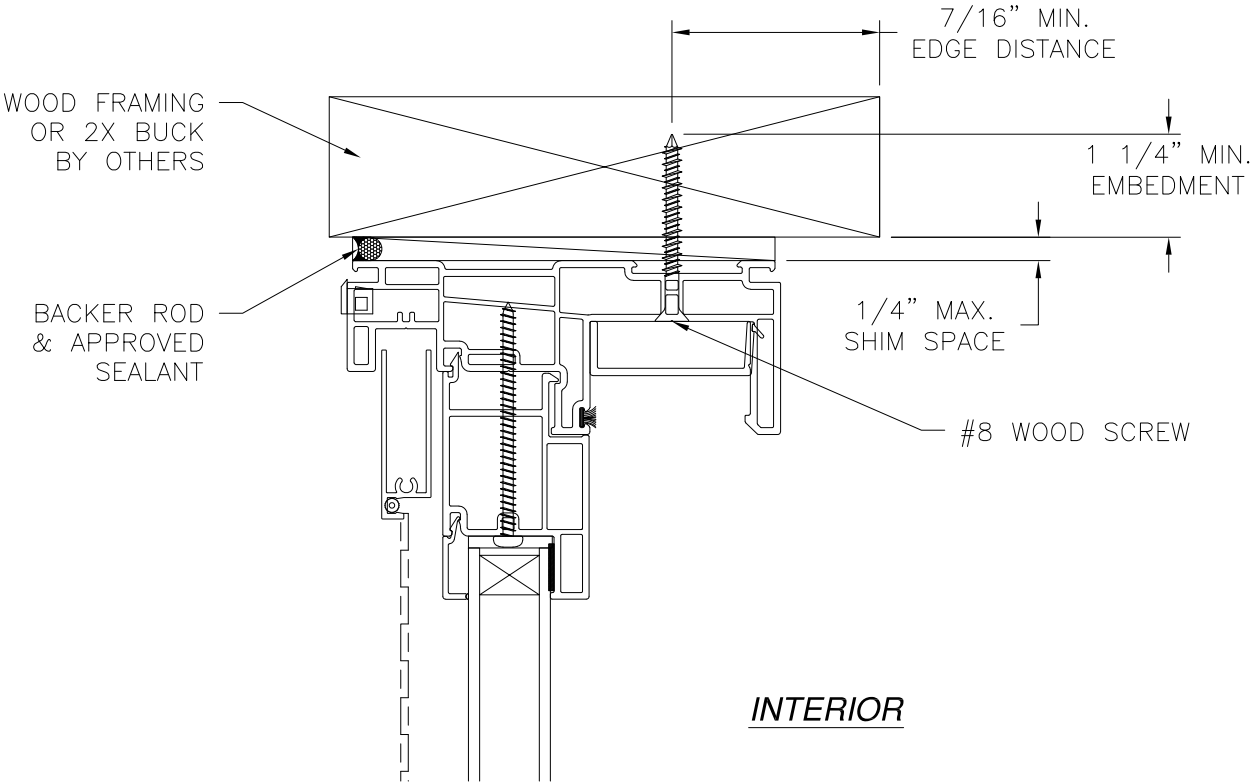
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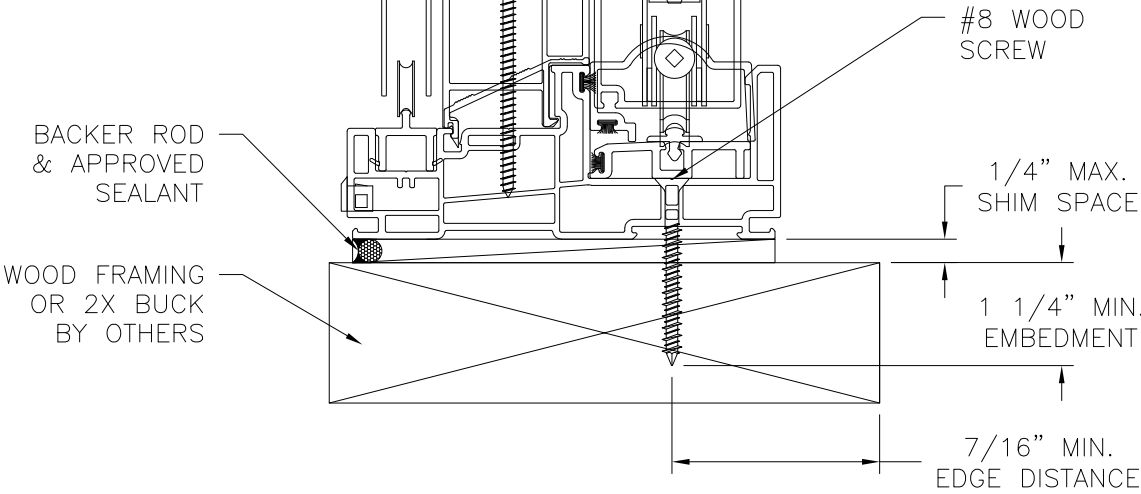


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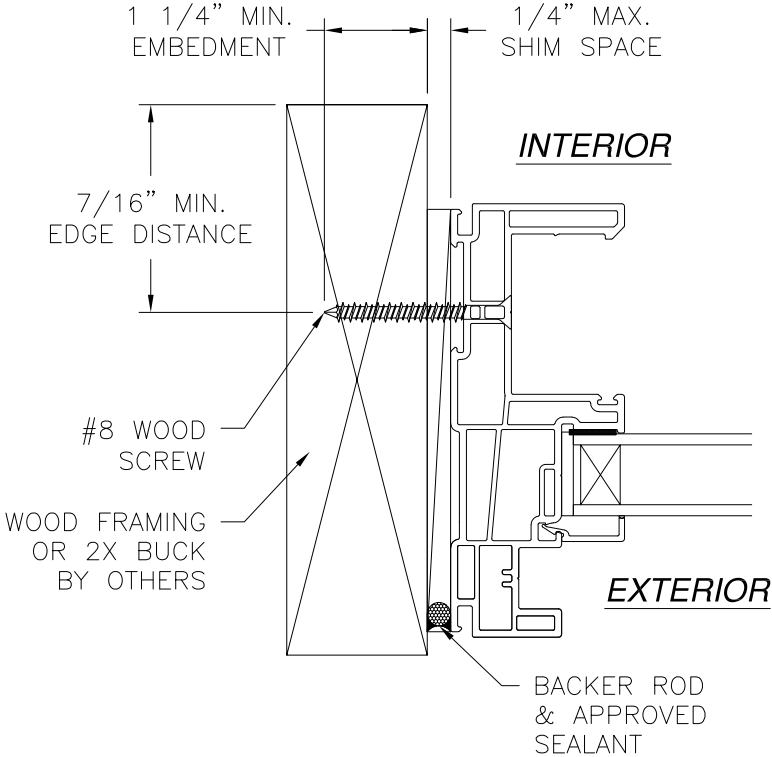


EXTERIOR



VERTICAL CROSS SECTION
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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

ENERGI FENESTRATION SOLUTIONS
1085 DES CHEMINOTS
TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SGD WITH TRANSOM
71" x 96" NON-IMPACT O/XO, O/OX
FRAME INSTALLATION DETAILS

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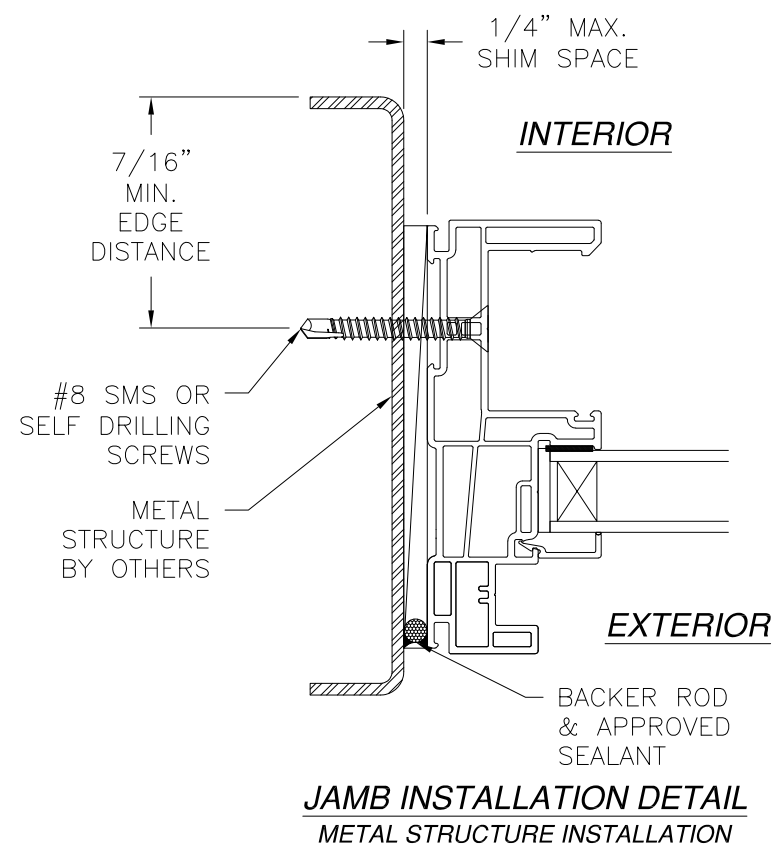
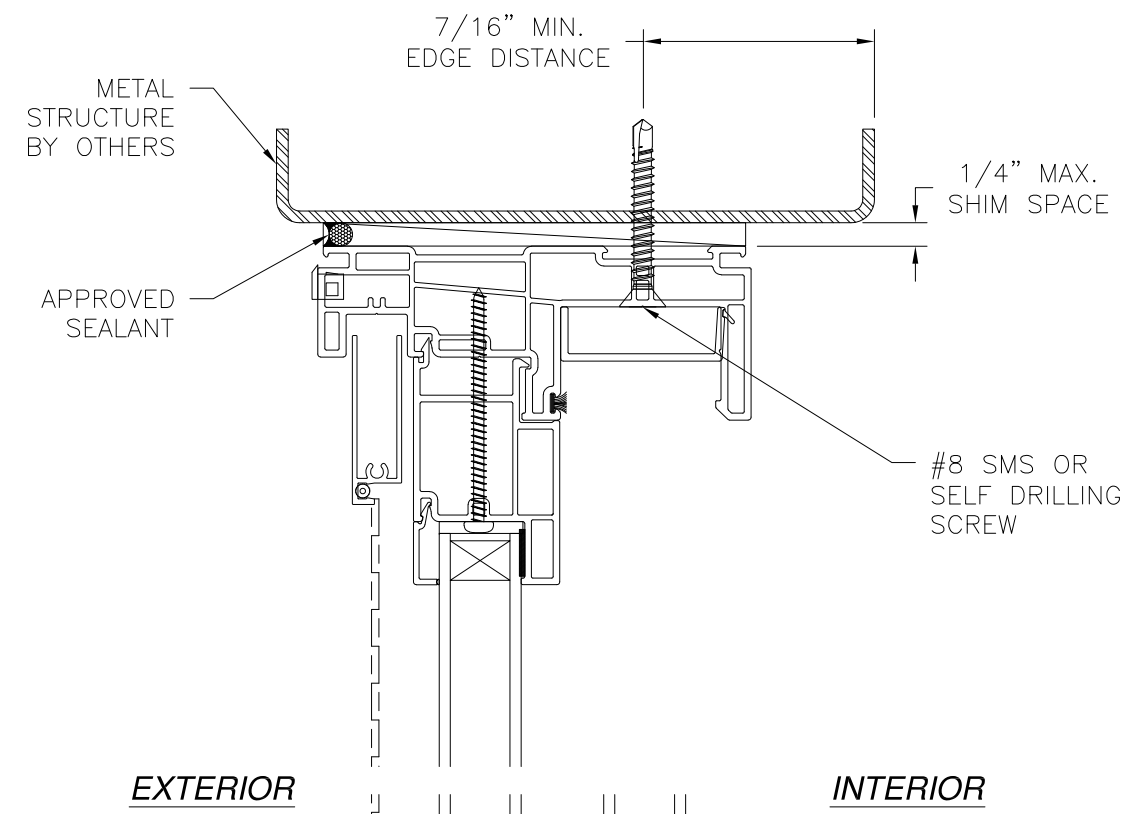
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TERREBONNE, QUEBEC, CANADA

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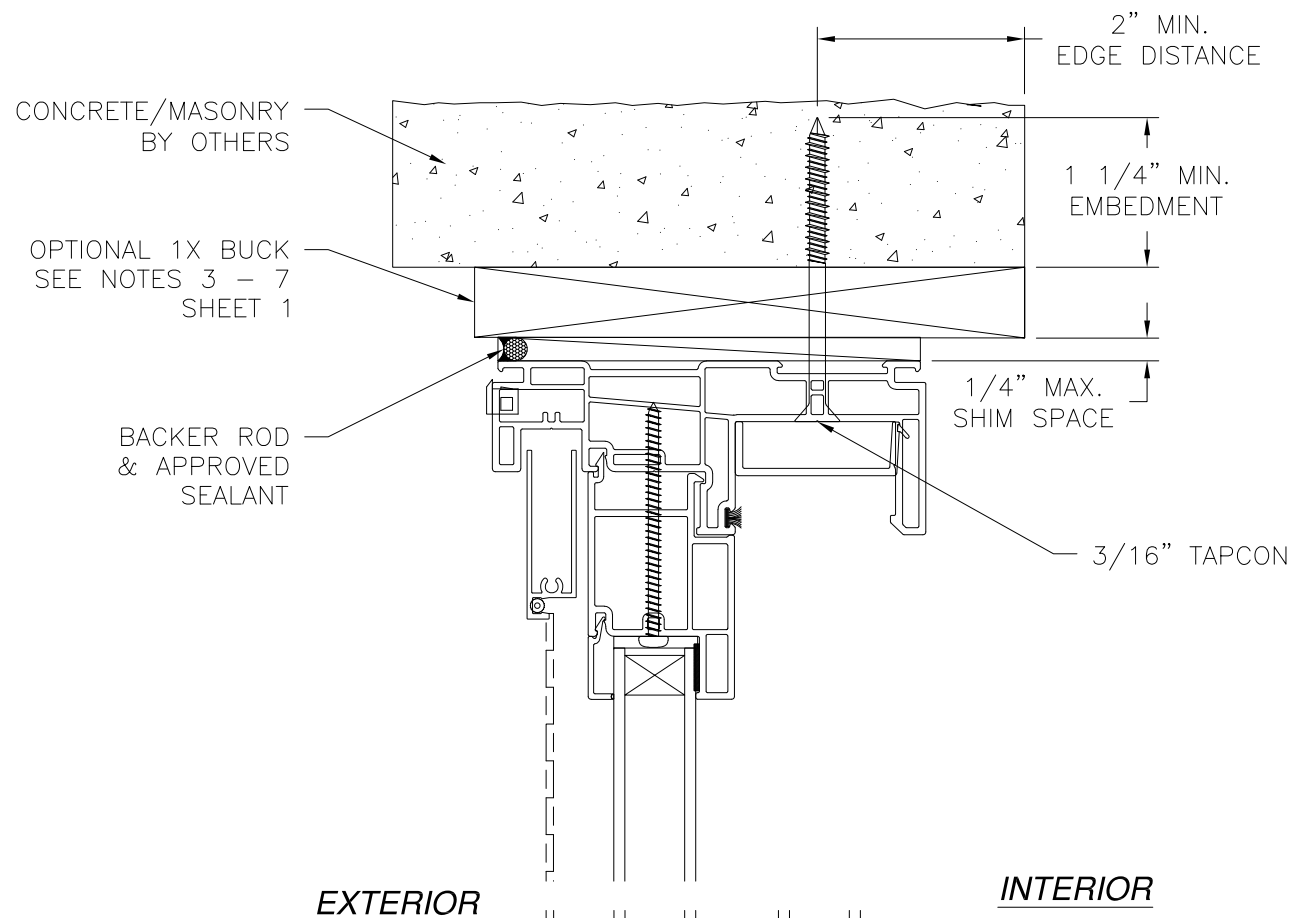
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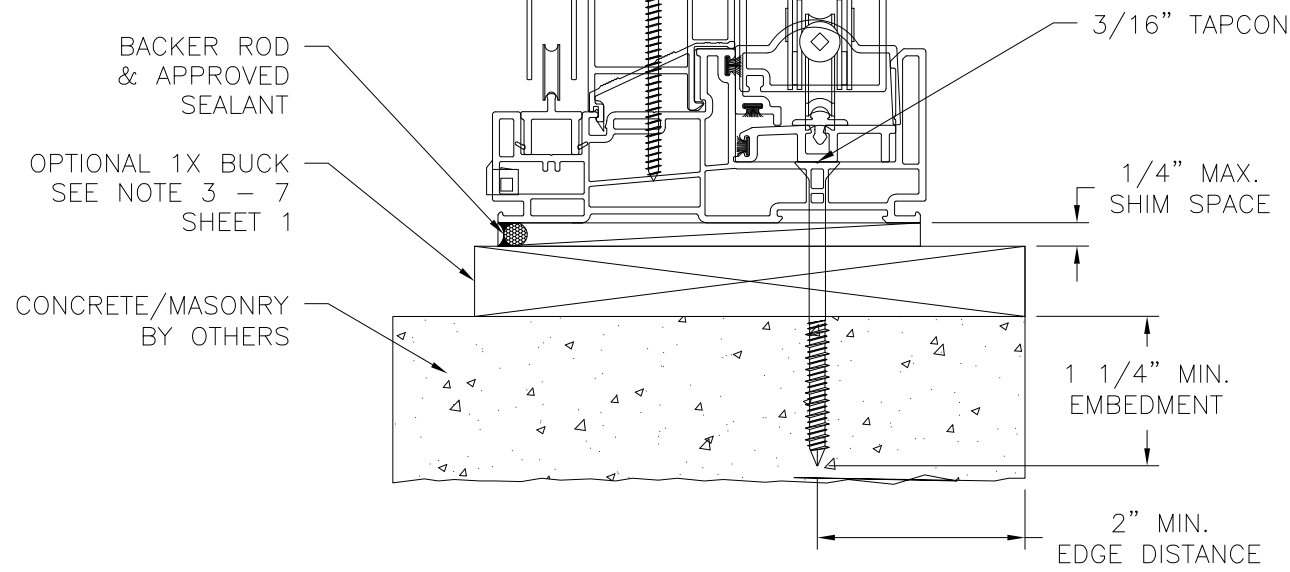
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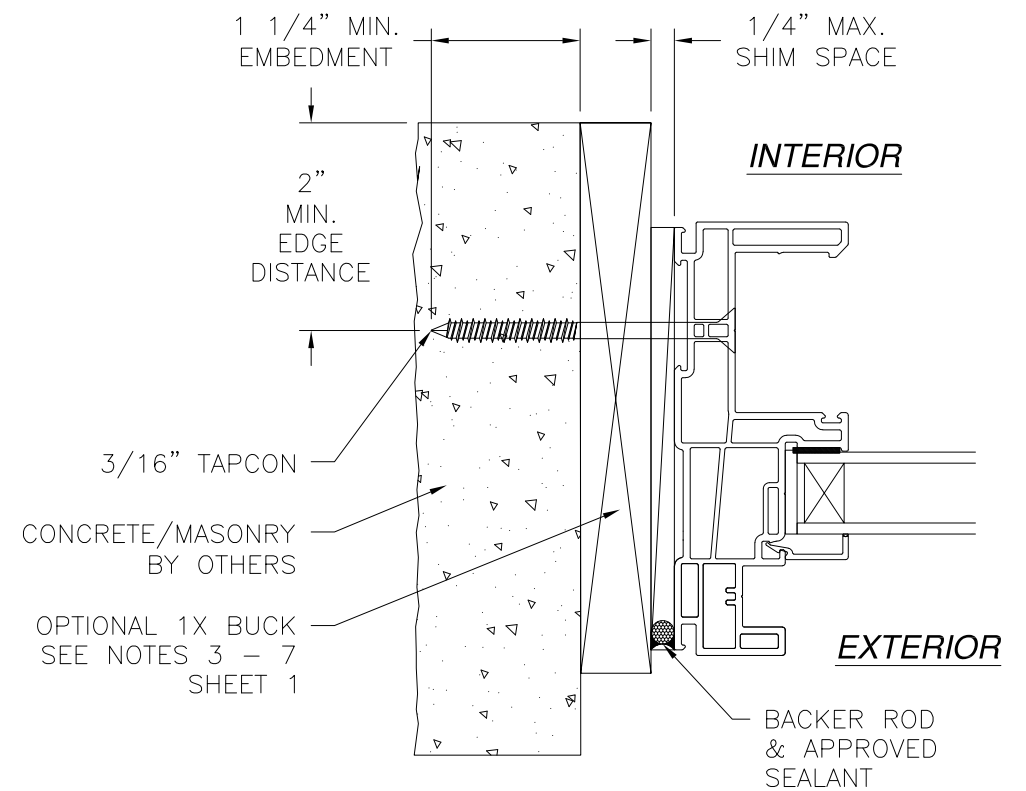


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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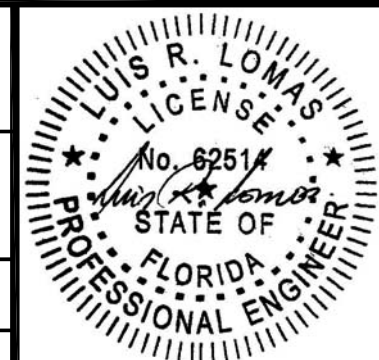
SERIES OPERA NG VINYL SGD WITH TRANSOM
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 FRAME INSTALLATION DETAILS

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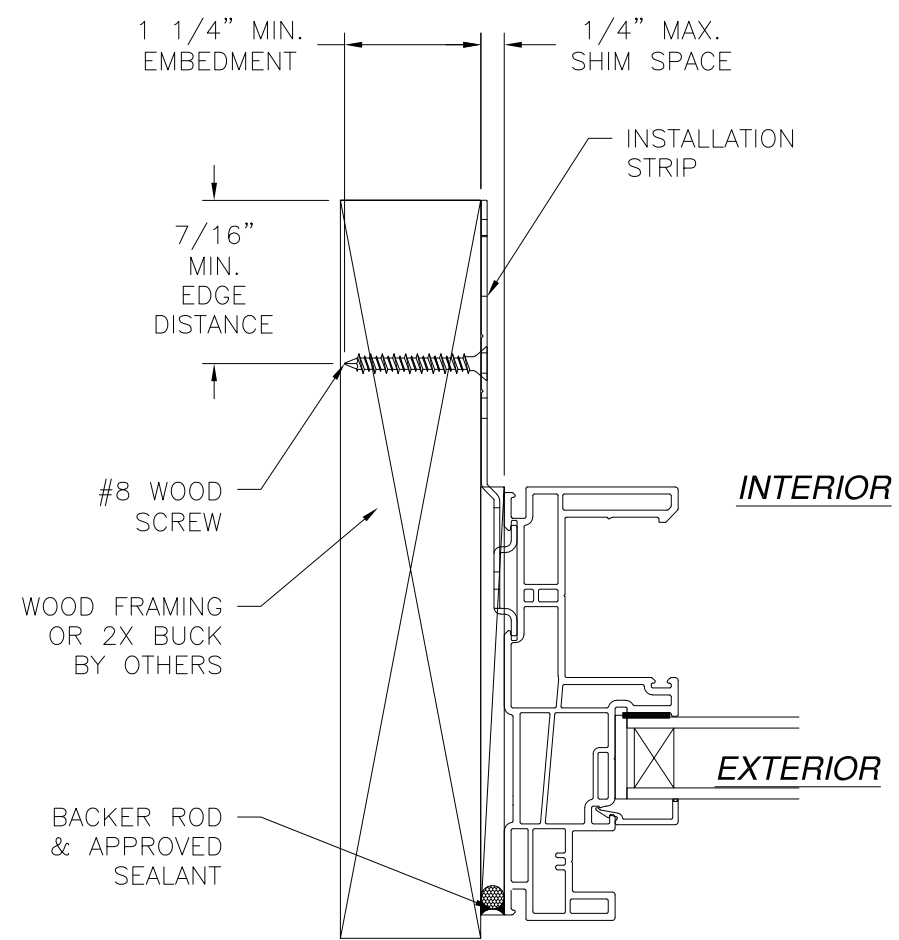
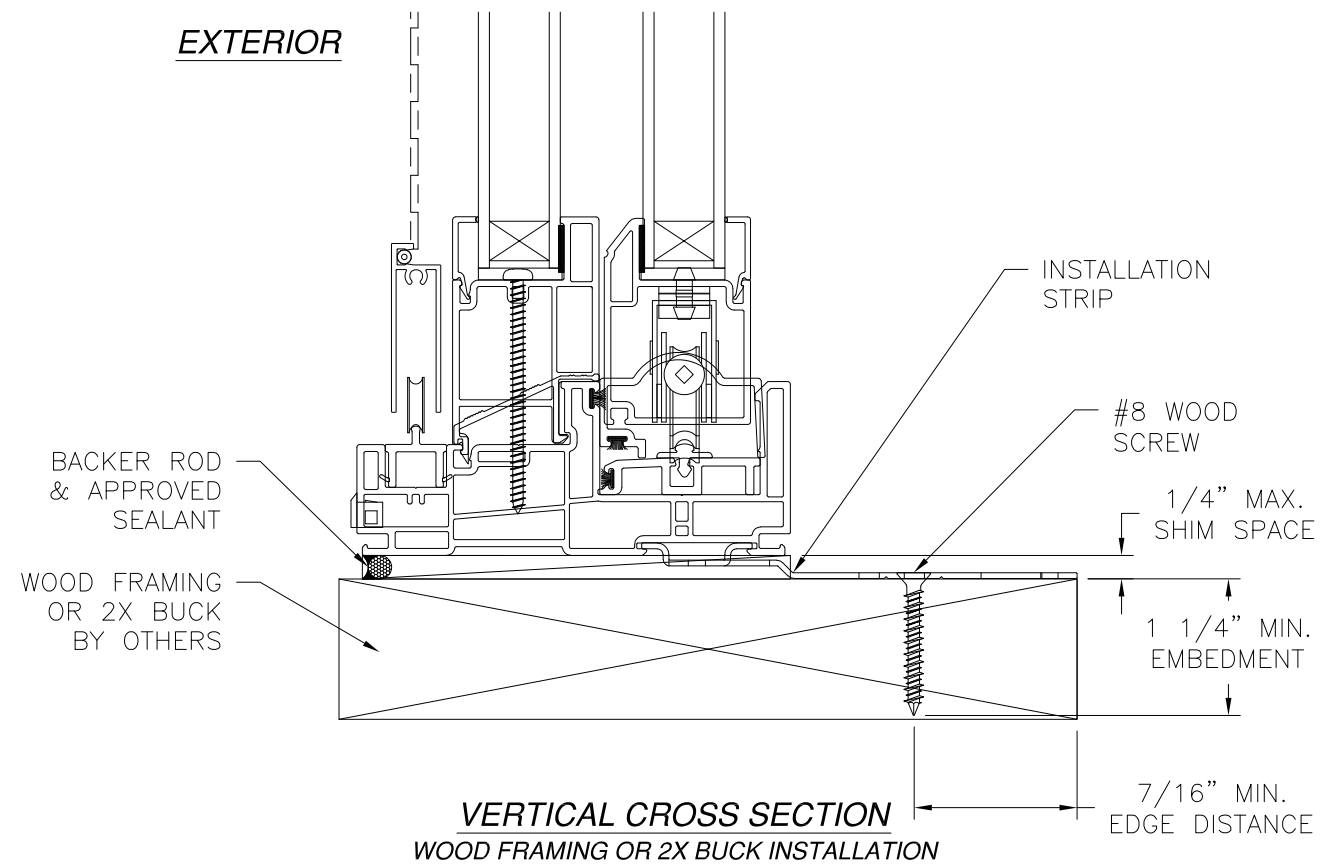
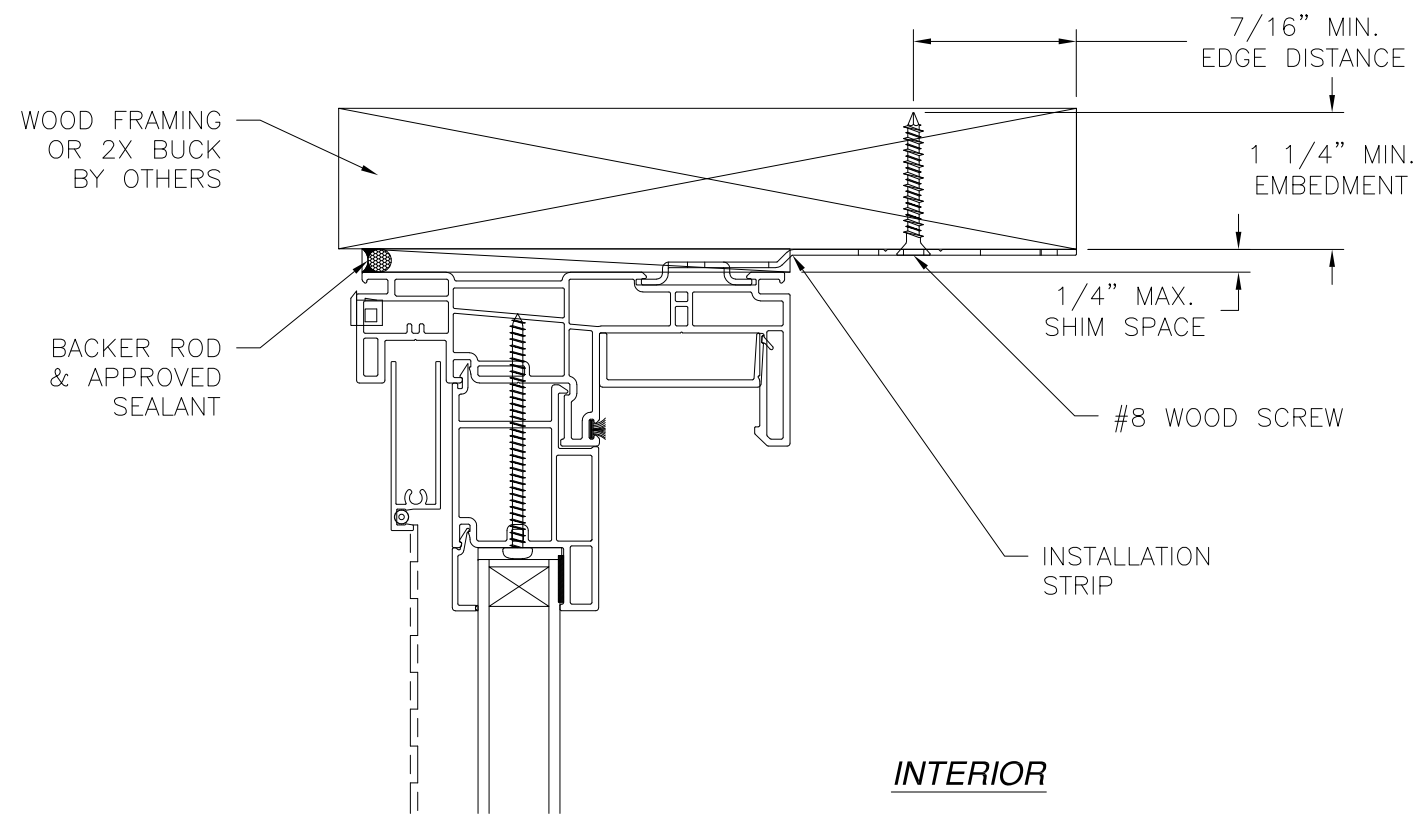
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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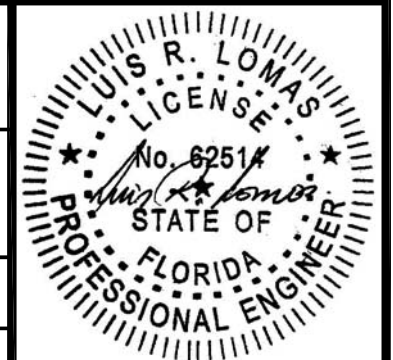
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SERIES OPERA NG VINYL SGD WITH TRANSOM
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 STRIP INSTALLATION DETAILS

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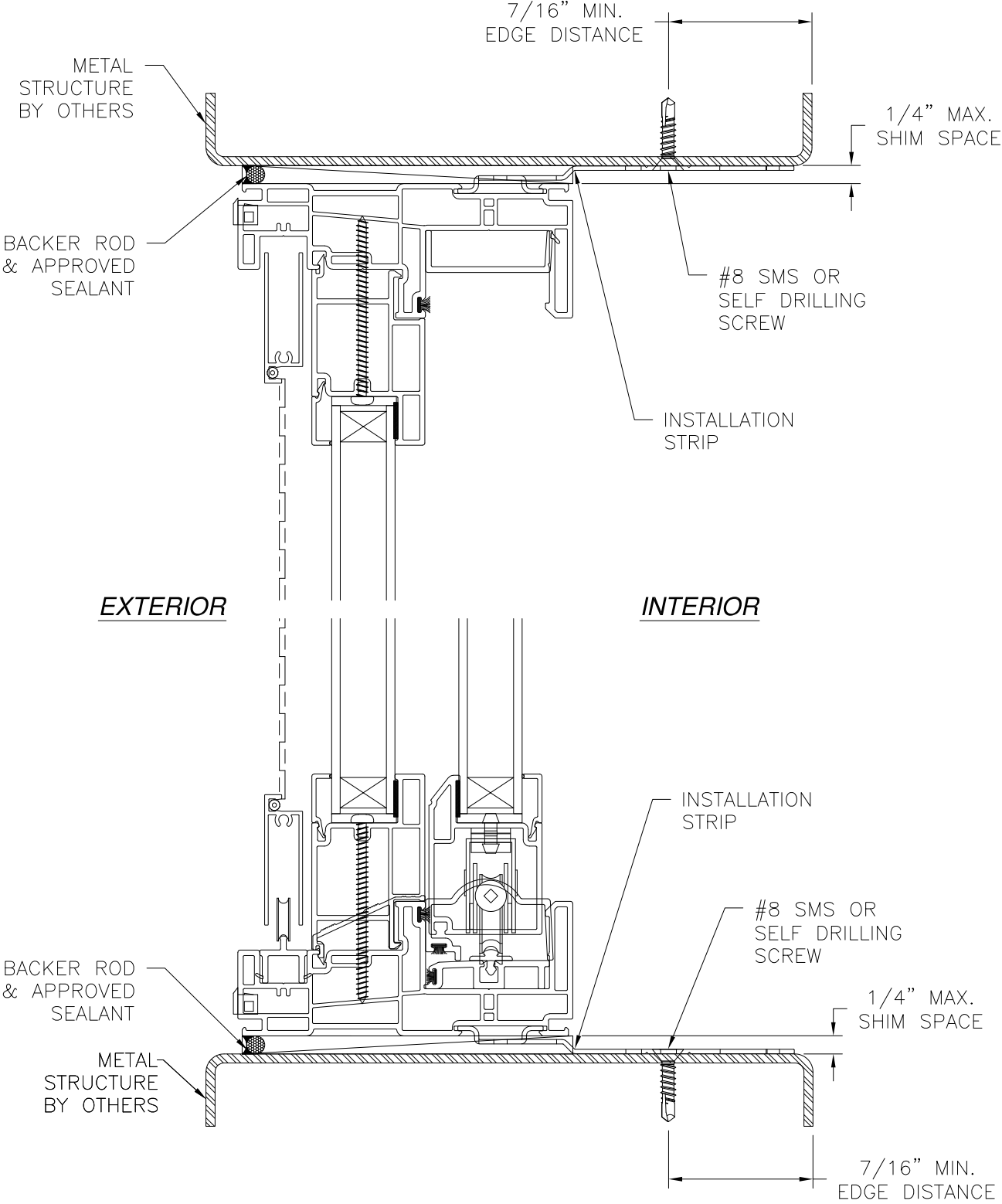
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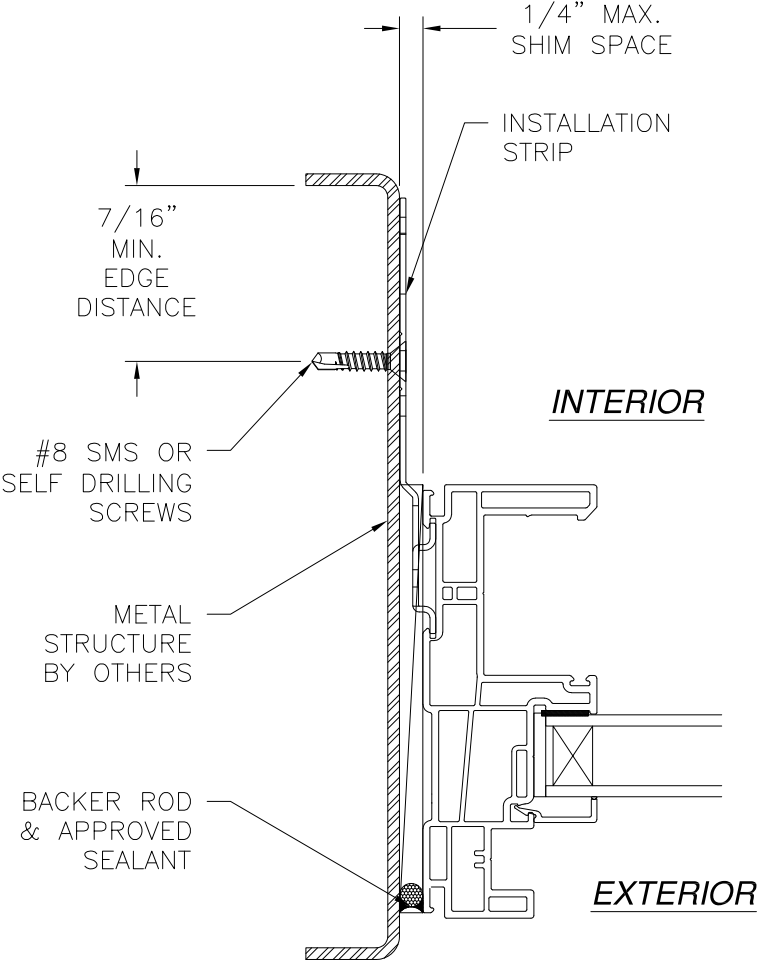


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



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METAL STRUCTURE INSTALLATION

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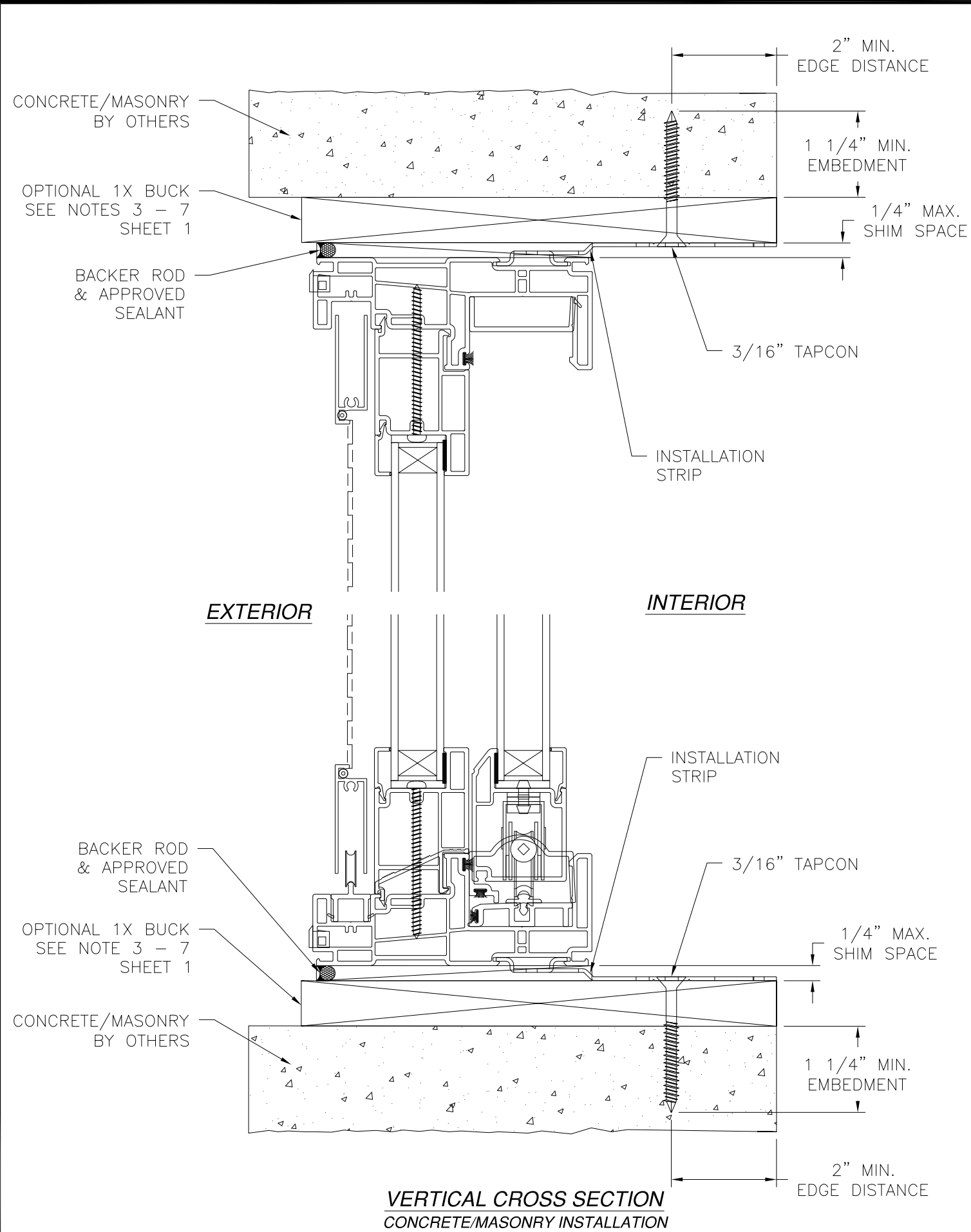
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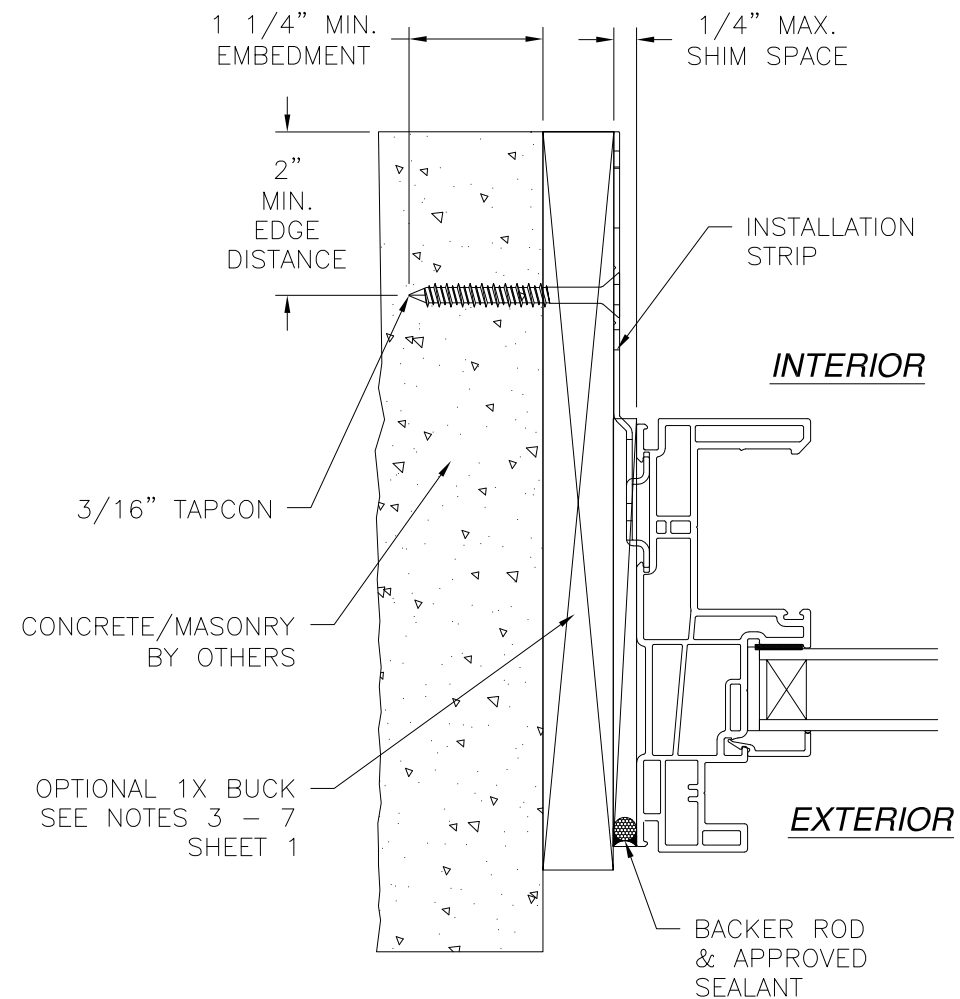
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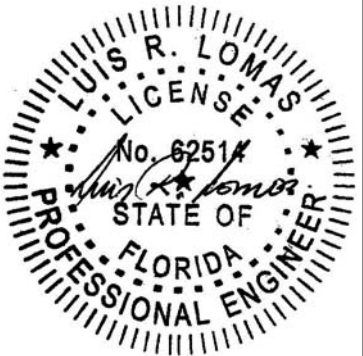


JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

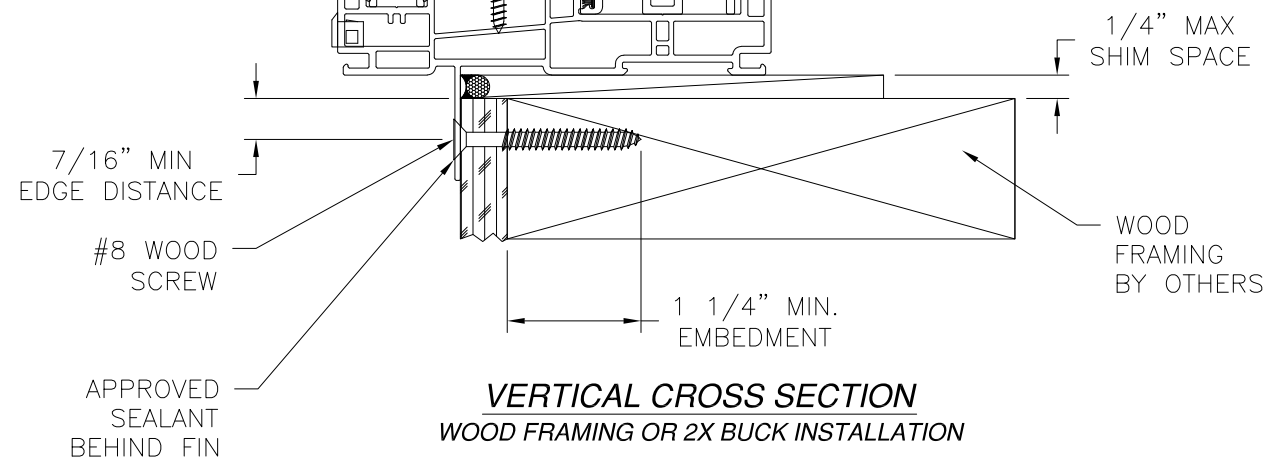
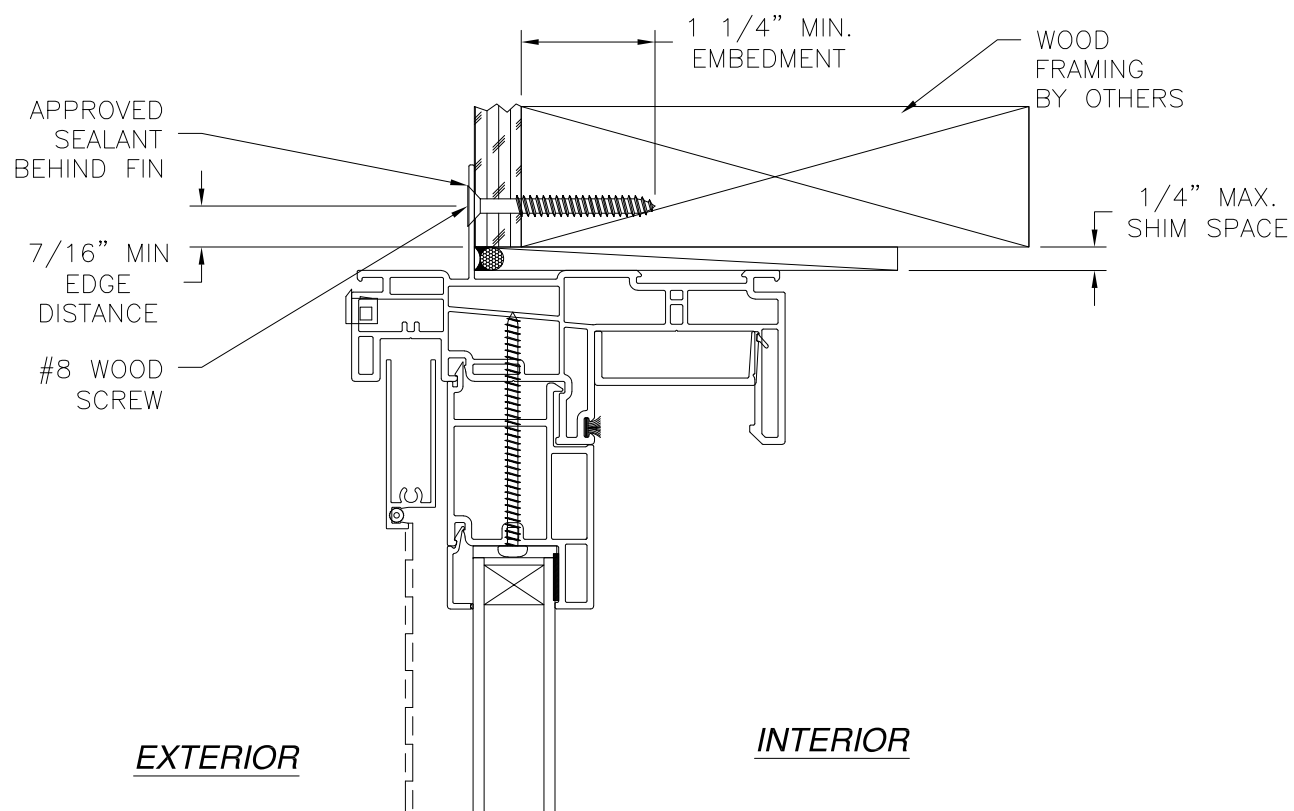
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SIGNED: 03/13/2018

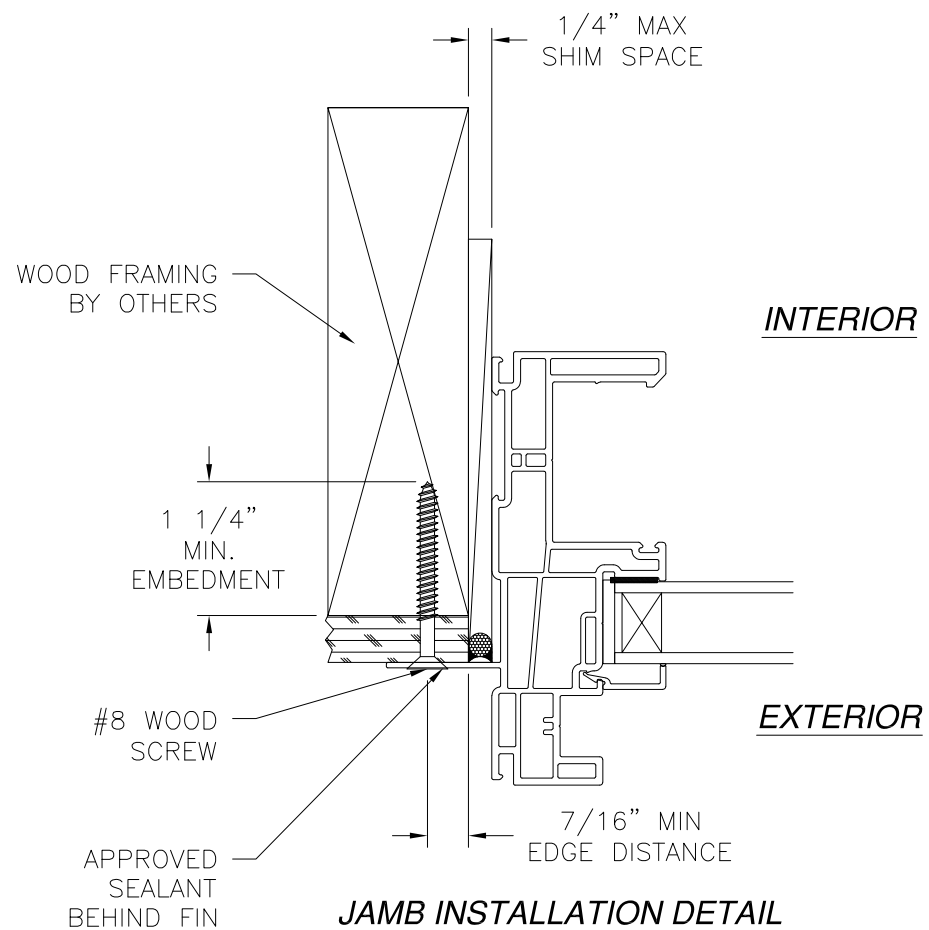
ENERGI FENESTRATION SOLUTIONS 1085 DES CHEMINOTS TERREBONNE, QUEBEC, CANADA		
SERIES OPERA NG VINYL SGD WITH TRANSOM 71" x 96" NON-IMPACT O/XO, O/OX STRIP INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02331	REV B
SCALE NTS	DATE 05/06/14	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		



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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



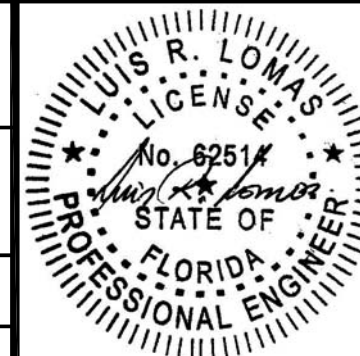
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	05/14/15	R.L.
B	REVISED PER NEW REQUIREMENTS	03/13/18	R.L.

ENERGI FENESTRATION SOLUTIONS 1085 DES CHEMINOTS TERREBONNE, QUEBEC, CANADA		
SERIES OPERA NG VINYL SGD WITH TRANSOM 71" x 96" NON-IMPACT O/XO, O/OX FIN INSTALLATION DETAILS		
DRAWN: V.L.	DWG NO. 08-02331	REV B
SCALE NTS	DATE 05/06/14	SHEET 11 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

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