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Product Approval
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 Application Detail

OFFICE OF THE
SECRETARY

FL #

FL17058-R2

Application Type

Revision

Code Version

2017

Application Status

Approved

*Approved by DBPR. Approvals by DBPR shall be reviewed and ratified by the POC and/or the Commission if necessary.

Comments

Archived



Product Manufacturer

Energi Fenestration Solutions

Address/Phone/Email

1085 Des Cheminots
 Terrebonne, NON-US J6W 0A1
 (450) 668-5549
 michel.pepin@energifenestration.com

Authorized Signature

Luis Lomas
 rllomas@lrlomaspe.com

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Exterior Doors

Subcategory

Sliding Exterior Door Assemblies

Compliance Method

Certification Mark or Listing

Certification Agency

National Accreditation & Management Institute

Validated By

National Accreditation & Management Institute

Referenced Standard and Year (of Standard)

Standard

AAMA/WDMA/CSA 101/I.S.2/A440

Year

2008

Equivalence of Product Standards
 Certified By

Product Approval Method

Method 1 Option A

Date Submitted

03/05/2018

Date Validated

09/24/2018

Date Pending FBC Approval

Date Approved

10/02/2018

Summary of Products

FL #	Model, Number or Name	Description
17058.1	Vinyl Sliding Glass Door	Series Opera NG Vinyl Sliding Glass Door OX & XO
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +20/-20 Other:		Certification Agency Certificate FL17058 R2 C CAC NI011947-R3.pdf Quality Assurance Contract Expiration Date 08/31/2024 Installation Instructions FL17058 R2 II 08-02329B.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL17058 R2 AE 513087B.pdf Created by Independent Third Party: Yes
17058.2	Vinyl Sliding Glass Door	Series Opera NG Vinyl Sliding Glass Door OX & XO
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-40 Other:		Certification Agency Certificate FL17058 R2 C CAC NI011945-R2.pdf Quality Assurance Contract Expiration Date 11/30/2022 Installation Instructions FL17058 R2 II 08-02330B.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL17058 R2 AE 513088B.pdf Created by Independent Third Party: Yes
17058.3	Vinyl Sliding Glass Door	Series Opera NG Vinyl Sliding Glass Door with Transom
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +40/-40 Other:		Certification Agency Certificate FL17058 R2 C CAC NI011946-R3.pdf Quality Assurance Contract Expiration Date 07/31/2024 Installation Instructions FL17058 R2 II 08-02331B.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL17058 R2 AE 513089B.pdf Created by Independent Third Party: Yes
17058.4	Vinyl Sliding Glass Door	Series Opera NG Patio Door, 4 5/8" Vinyl Sliding Glass Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +50/-50 Other:		Certification Agency Certificate FL17058 R2 C CAC NI011238.01-R2.pdf Quality Assurance Contract Expiration Date 08/31/2023 Installation Instructions FL17058 R2 II 08-02332B.pdf Verified By: Luis Roberto Lomas 62514 Created by Independent Third Party: Yes Evaluation Reports FL17058 R2 AE 513090B.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



Credit Card
Safe

securityMETRICS

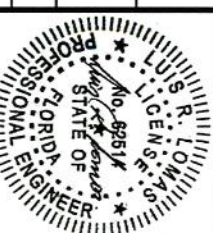
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED INSTALLATION DETAILS	05/14/15	R.L.
B	REVISED PER NEW REQUIREMENTS	03/13/18	R.L.

- NOTES:
- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
 - 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.
 - 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
 - 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.
 - 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.
 - 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.
 - BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
 - 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".
 - SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
 - WIND LOAD DURATION FACTOR $C_d=1.6$ WAS USED FOR WOOD ANCHOR CALCULATIONS.
 - FRAME MATERIAL: EXTRUDED RIGID PVC.
 - UNITS MUST BE GLAZED PER ASTM E1300-04/09, WITH SAFETY GLAZING.
 - APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
 - 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.
 - 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.
 - 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.
 - 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.
 - ALL FASTENERS TO BE CORROSION RESISTANT.
 - 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:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF $G=0.42$
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .048" THICK MINIMUM
 - APPROVED CONFIGURATIONS: OX AND XO.

- 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".
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SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3	CROSS SECTIONS AND B.O.M.
4 -- 10	INSTALLATION DETAILS

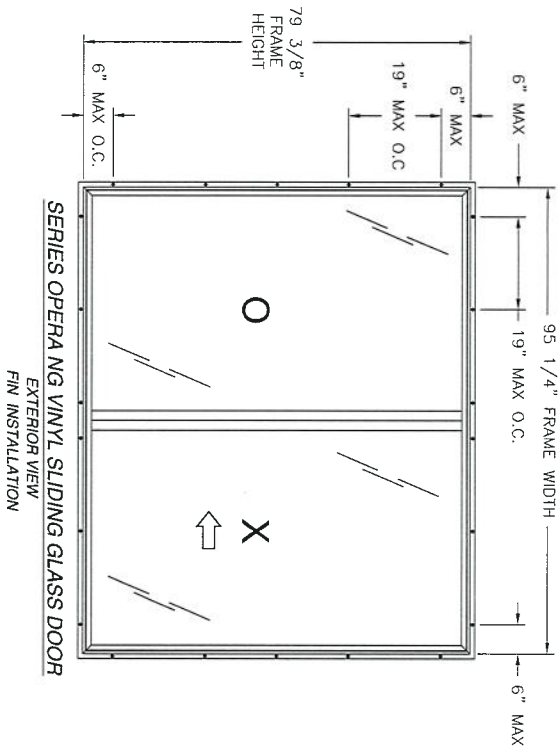
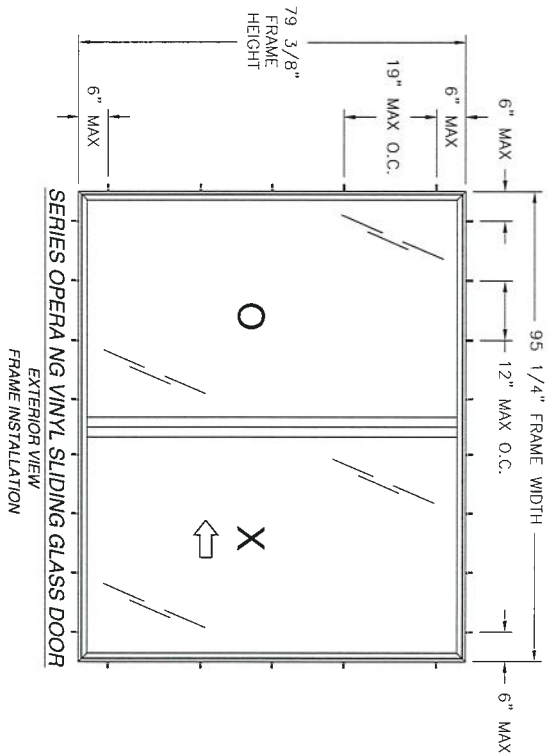
ENERGI FENESTRATION SOLUTIONS 1085 DES CHEMINOTS TERREBONNE, QUEBEC, CANADA			
SERIES OPERA NG VINYL SLIDING GLASS DOOR 95" x 79" NON-IMPACT OX & XO NOTES			
DRAWN: V.L.	DWG NO.: 08-02330	REV B	
SCALE NTS	DATE 05/12/14	SHEET 1	OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-686-0603 lromas@lomaspc.com			



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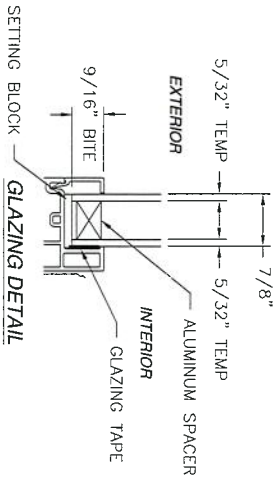
Luis R. Lomas P.E.
FL No.: 62514

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



DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

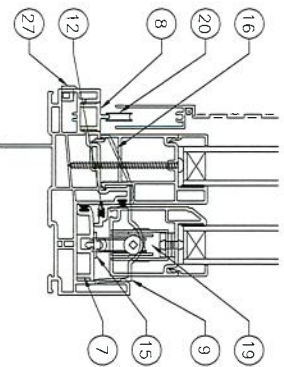
48 3/16" X 76 3/4" PANEL SHOWN, OTHER SIZES APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 25.68 FT²



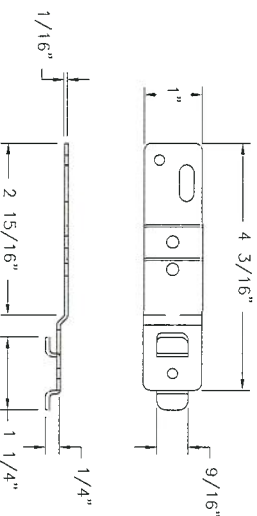
- NOTES:
1. ACTIVE PANEL SIZE: 48 3/16" X 76 3/4"
 2. FIXED PANEL SIZE: 48 3/16" X 76 3/4"
 3. D.L.O. FOR ALL PANELS: 49 3/4" X 72 1/4"

ENERGI FENESTRATION SOLUTIONS 1085 DES CHEMINOTS TERREBONNE, QUEBEC, CANADA			
SERIES OPERA NG VINYL SLIDING GLASS DOOR 95" x 79" NON-IMPACT OX & XO ELEVATIONS			
DRAWN: V.L.L. SCALE: NTS DATE: 05/12/14 SHEET: 2 OF 10	DWG NO.: 08-02330	REV: B	SIGNED: 03/13/2018 Luis R. Lomas P.E. FL No.: 62514

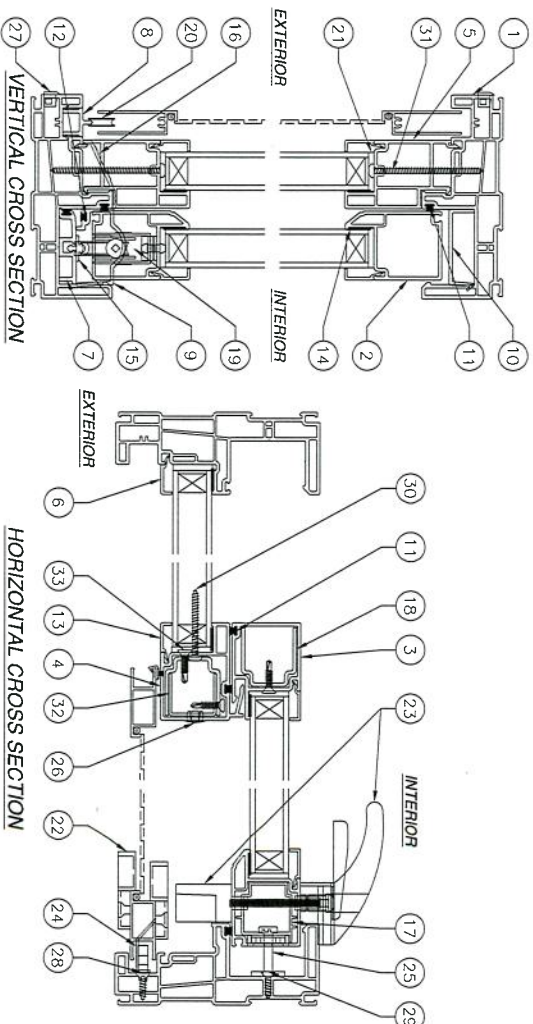
BILL OF MATERIALS			
ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER MATERIAL
1	7060	FRAME	ENERGI FENESTRATION SOLUTIONS RIGID PVC
2	7076	OPERATING SASH	ENERGI FENESTRATION SOLUTIONS RIGID PVC
3	7080	OPERATING MEETING RAIL SASH	ENERGI FENESTRATION SOLUTIONS RIGID PVC
4	7054	FIXED MEETING RAIL SASH	ENERGI 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 RIGID PVC
9	7010	SASH STOP	ENERGI FENESTRATION SOLUTIONS RIGID PVC
10	7018	HEAD BLOCK	ENERGI FENESTRATION SOLUTIONS RIGID PVC
11	HF-7320-187	WEATHER STRIP	SCHLEGEL
12	PG-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	ROMAN
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	



OPTIONAL FIN FRAME



INSTALLATION STRIP
GALVANIZED STEEL G60



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

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 SLIDING GLASS DOOR

95" x 79" NON-IMPACT OX & XO

B.O.M. AND CROSS SECTIONS

DRAWN: V.L.

SCALE: NTS

DATE: 05/12/14

SHEET: 3 OF 10

REV: B

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

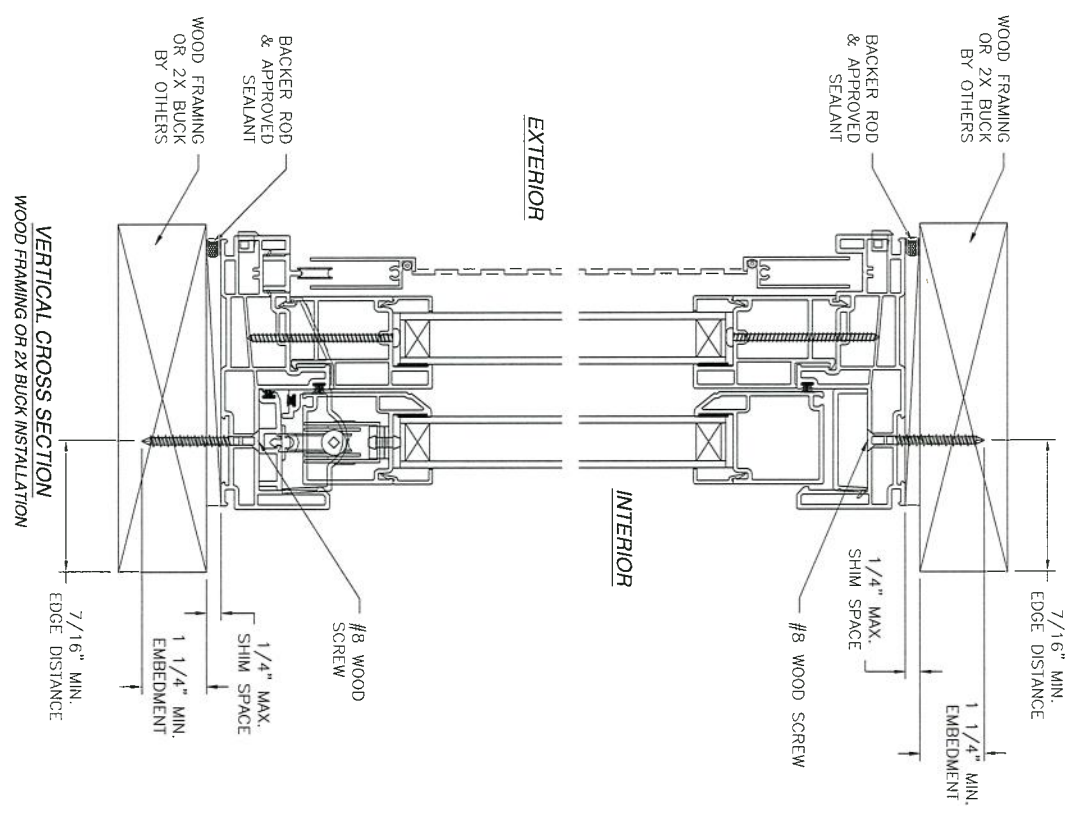
434-688-0509 rloomas@rlomaspe.com

SIGNED: 03/13/2018

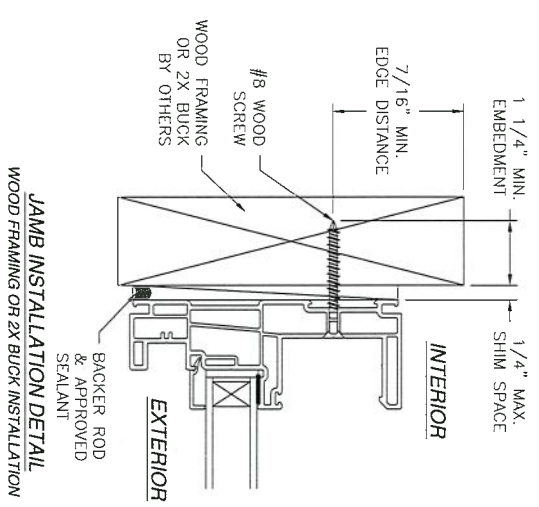
Luis R. Lomas P.E.

FL No.: 62514

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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



ENERGI FENESTRATION SOLUTIONS

1085 DES CHEMINOTS

TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR

95" x 79" NON-IMPACT OX & XO

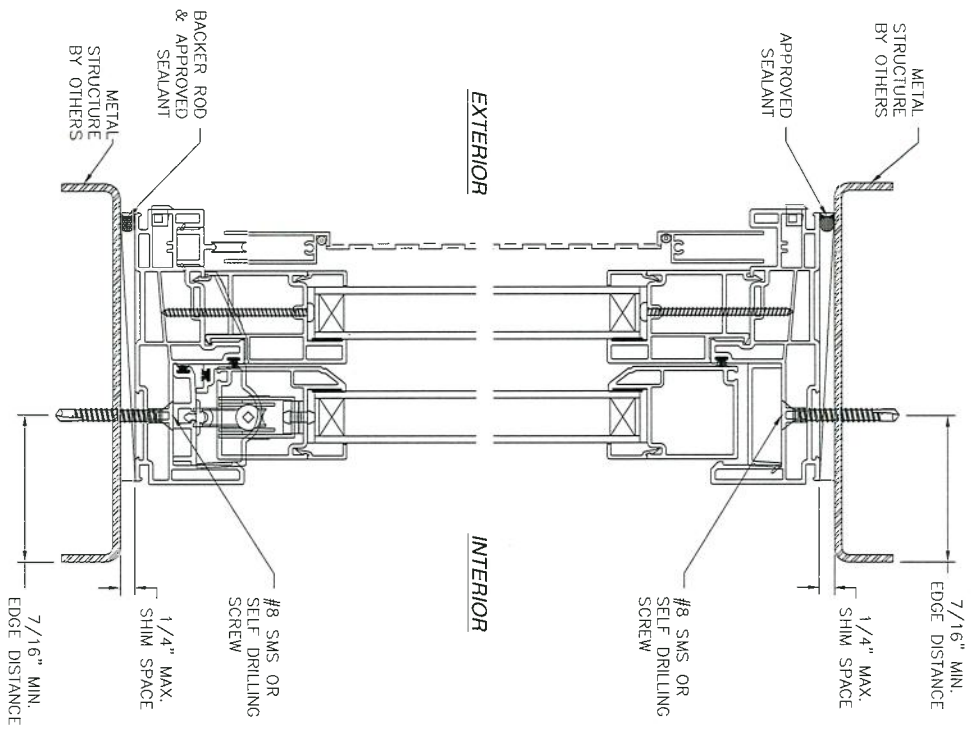
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DRAWN:	DWG NO.	REV
V.L.	08-02330	B
SCALE NTS	DATE 05/12/14	SHEET 4 OF 10
L. ROBERTO LOMAS P.E. 1402 WOODFORD RD LEWISVILLE, NC 27023 434-688-6009 rlomas@lomaspa.com		

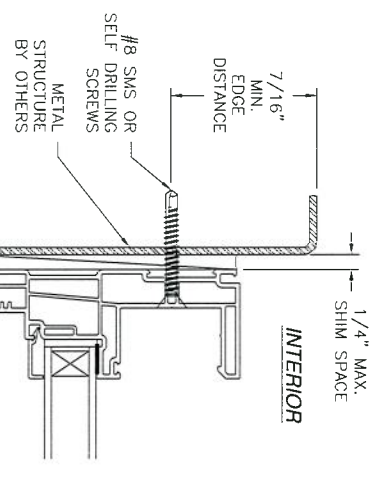
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Luis R. Lomas P.E.
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- NOTES:
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E212



ENERGI FENESTRATION SOLUTIONS

1085 DES CHEMINOTS

TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR

95" x 79" NON-IMPACT OX & XO

FRAME INSTALLATION DETAILS

DRAWN: V.L.

SCALE: NTS

DATE: 05/12/14

DWG NO.: 08-02330

SHEET: 5 OF 10

REV: B

L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LENOIRVILLE, NC 27023

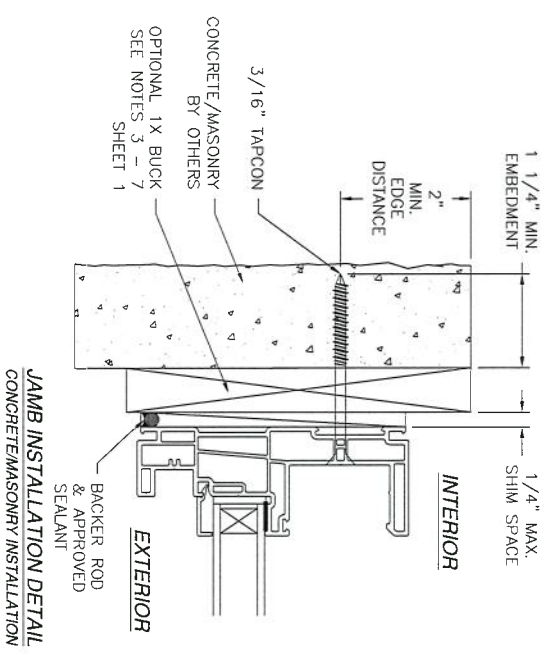
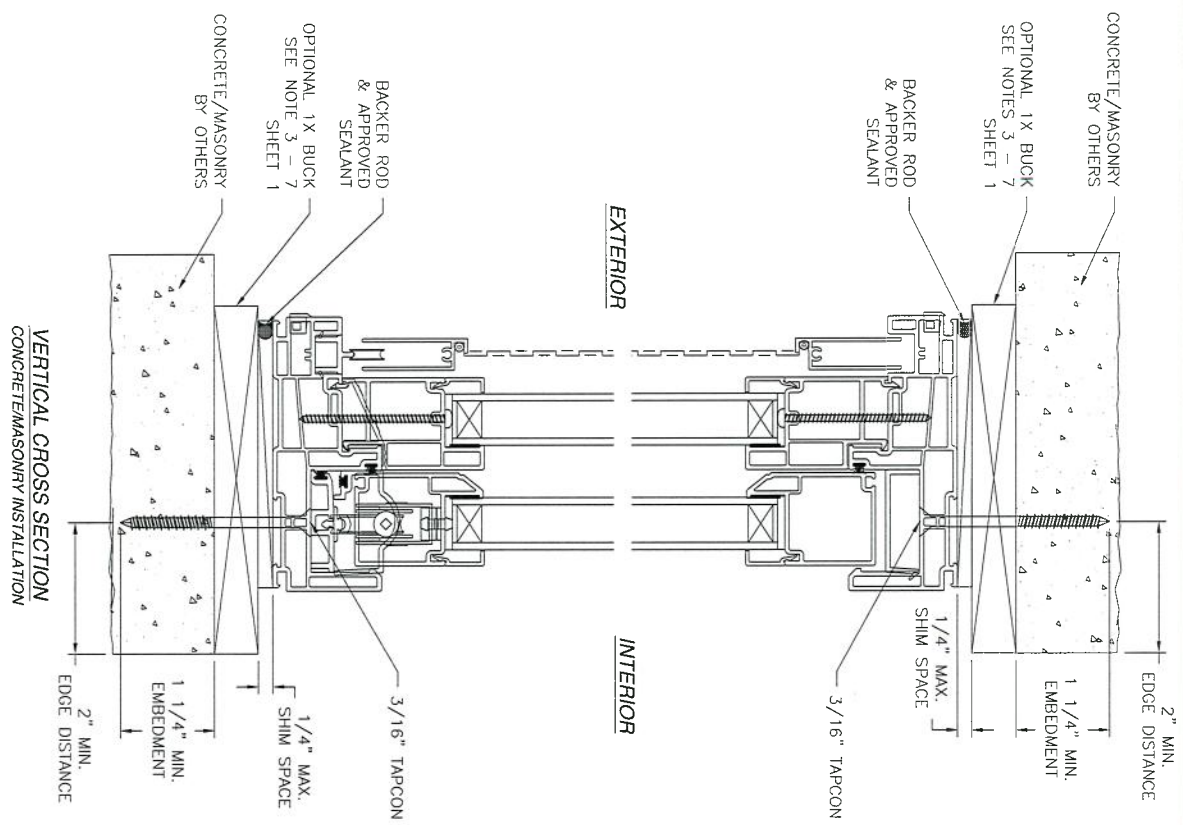
434-686-6609 mlomas@lrlomaspc.com

SIGNED: 03/13/2018

LUIS R. LOMAS P.E.

FL. No.: 62514

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ENERGI FENESTRATION SOLUTIONS
 1085 DES CHEMINOTS
 TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR
 95" x 79" NON-IMPACT OX & XO
 FRAME INSTALLATION DETAILS

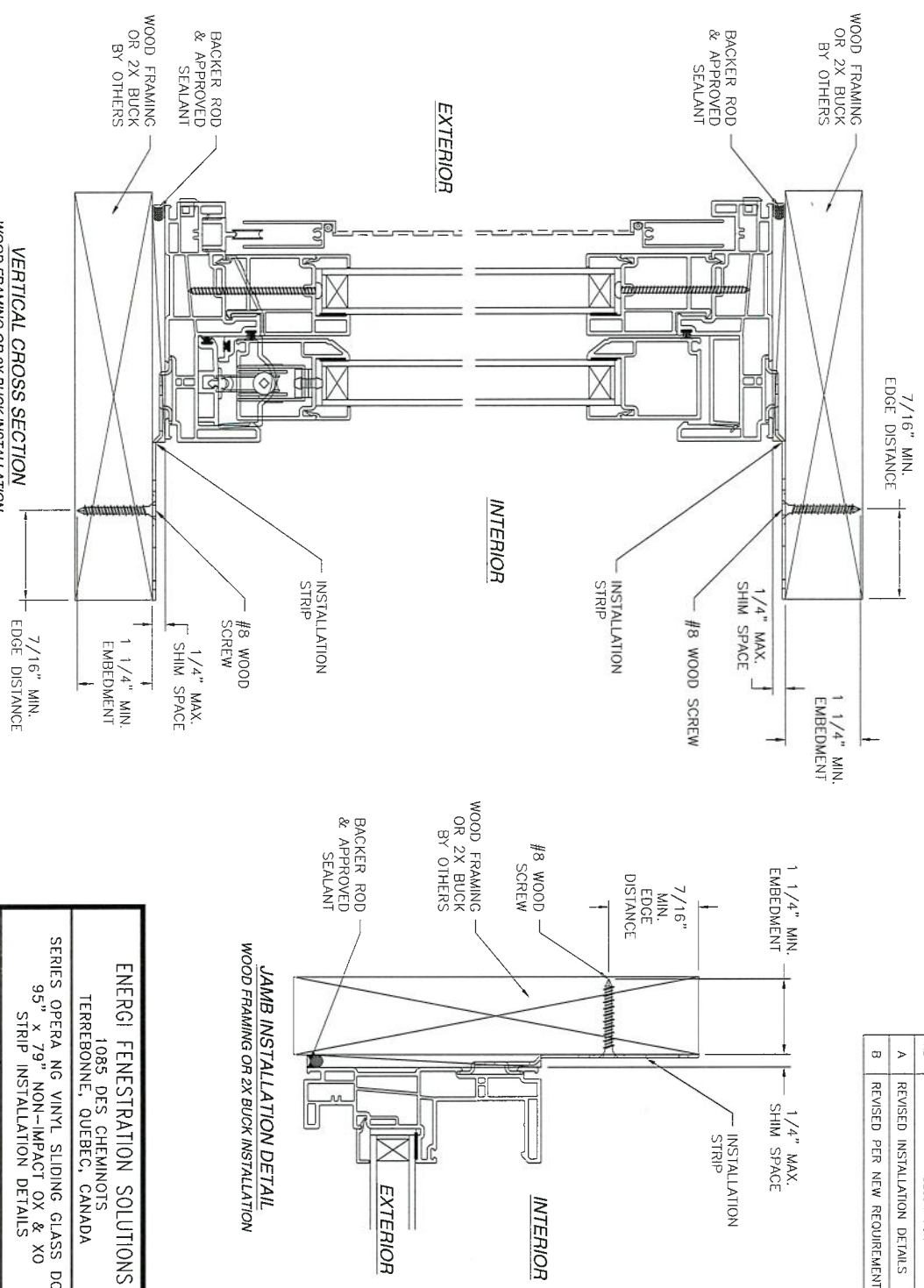
GRAPHIC: V.L. DWG NO. 08-02330 REV B
 SCALE NTS DATE 05/12/14 SHEET 6 OF 10

L. ROBERTO LOMAS P.E.
 1402 WOODFORD RD LEWISVILLE, NC 27023
 434-888-0609 lromas@lromaspc.com

SIGNED: 03/13/2018

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

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ENERGI FENESTRATION SOLUTIONS
 1085 DES CHEMINOTS
 TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR
 95" x 79" NON-IMPACT OX & XO
 STRIP INSTALLATION DETAILS

SCALE NTS

DATE 05/12/14

SHEET 7 OF 10

REV B

DWG NO. 08-02330

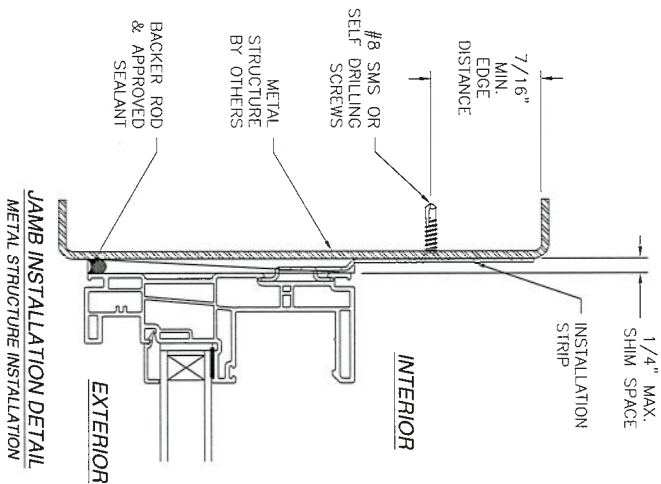
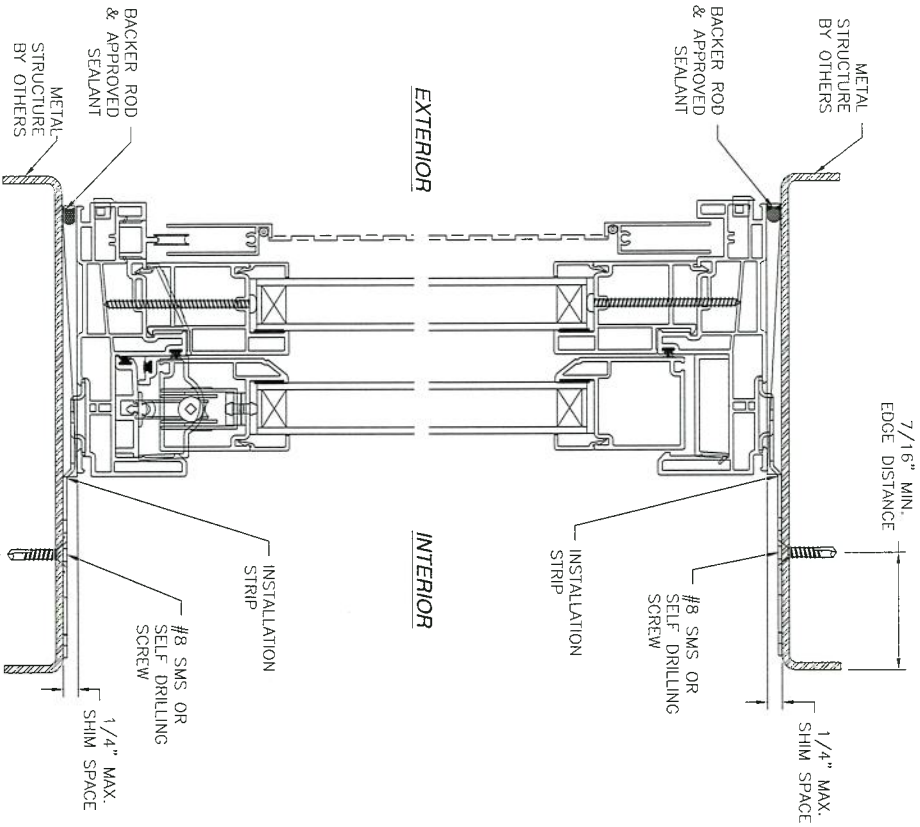
1432 WOODFORD RD LEWISVILLE, NC 27023

434-686-0009 monas@monaspe.com

SIGNED: 03/13/2018

Luis R. Lomas P.E.
 No. 82514
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

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VERTICAL CROSS SECTION METAL STRUCTURE INSTALLATION

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ENERGI FENESTRATION SOLUTIONS

1085 DES CHEMINOTS
TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR
95" x 79" NON-IMPACT OX & XO
STRIP INSTALLATION DETAILS

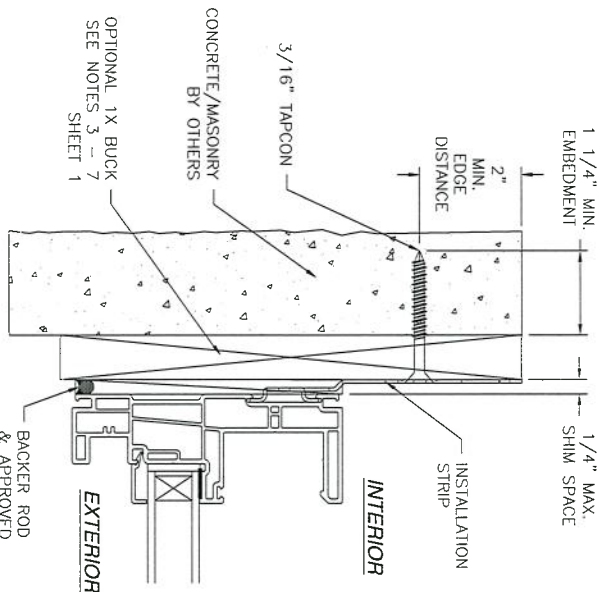
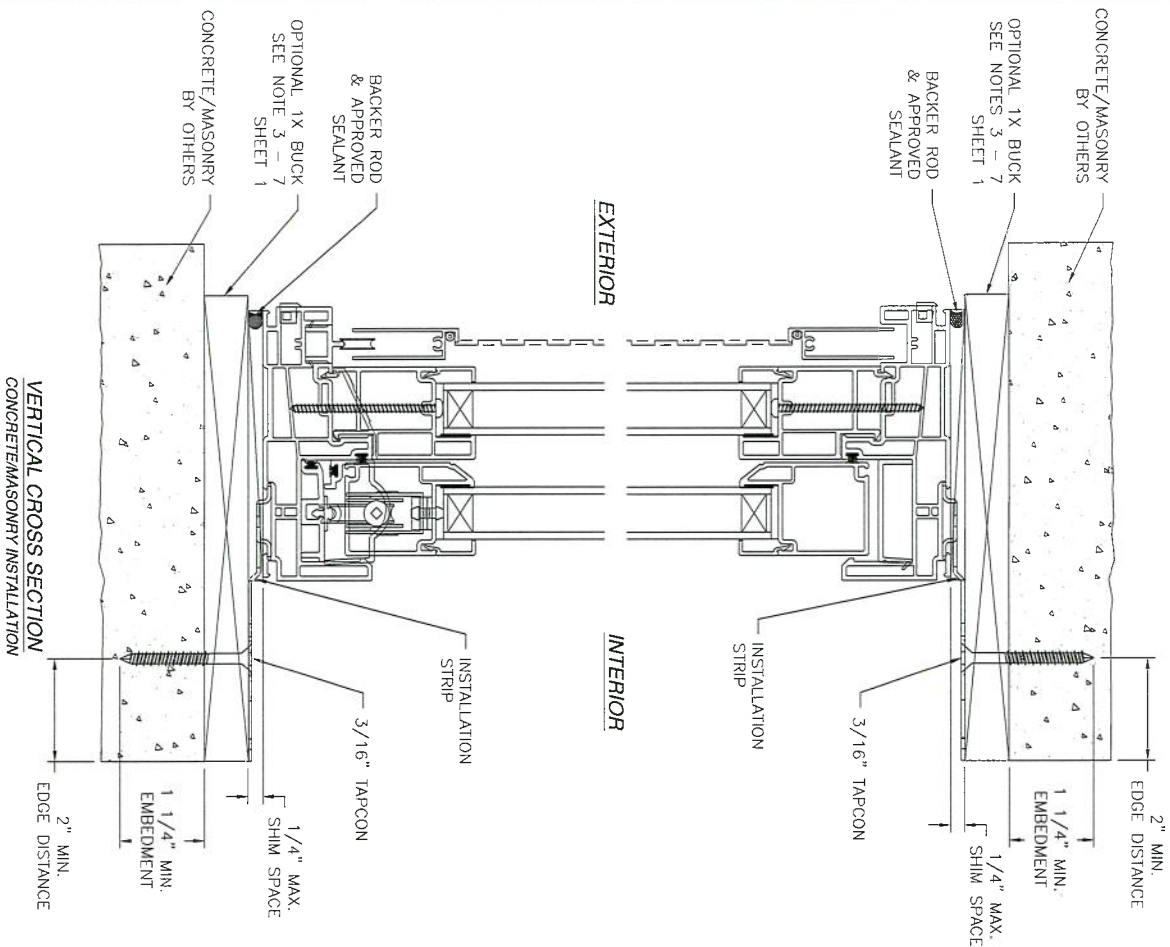
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SCALE NTS	DATE 05/12/14	REV B

1432 WOODFORD RD LEWISVILLE, NC 27023
434-698-0609 rlomas@hennaspe.com

SIGNED: 03/13/2018

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

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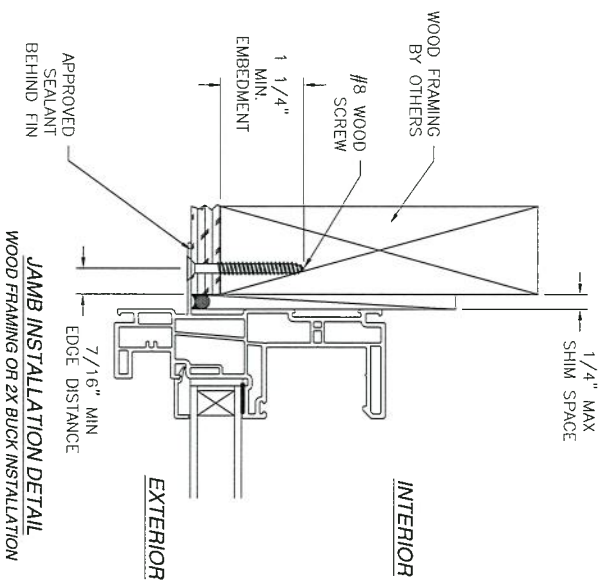
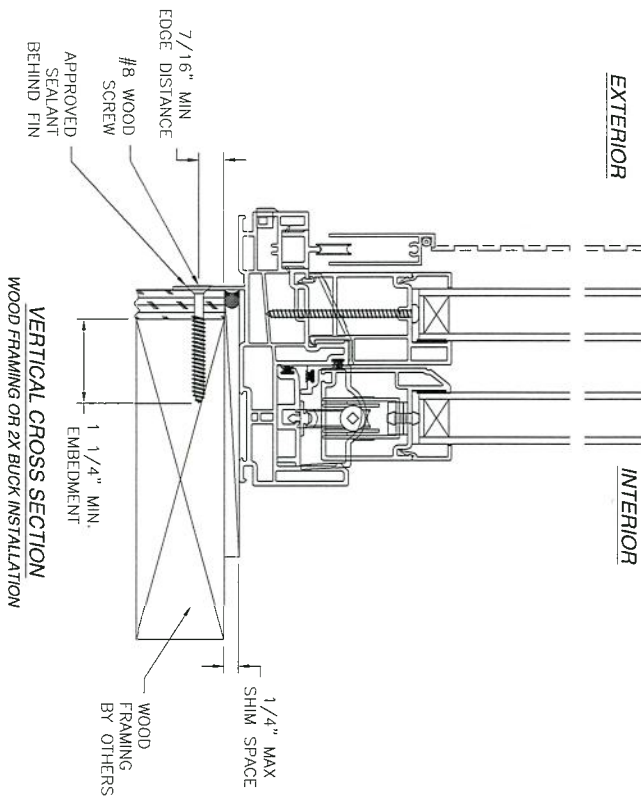
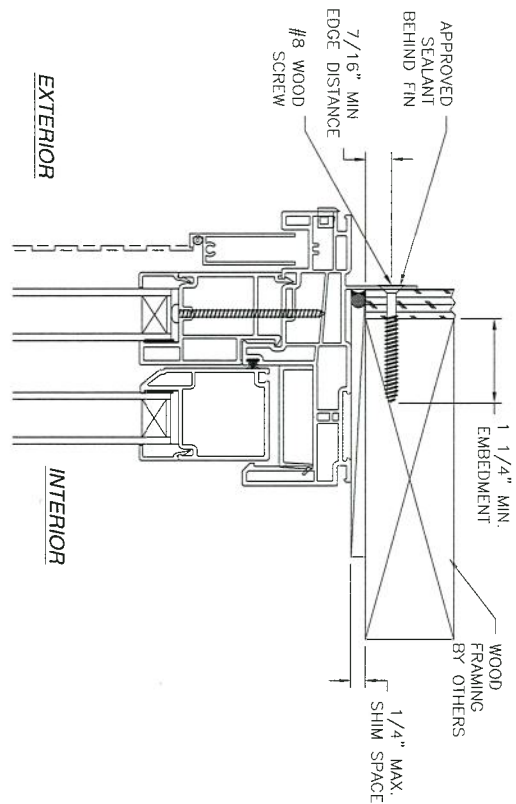
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 03/13/2018

ENERGI FENESTRATION SOLUTIONS 1085 DES CHEMINOTS TERREBONNE, QUEBEC, CANADA			
SERIES OPERA NG VINYL SLIDING GLASS DOOR 95" x 79" NON-IMPACT OX & XO STRIP INSTALLATION DETAILS			
DRAWN: V.L.	DWG NO. 08-02330	DATE 05/12/14	SHEET 9 OF 10
SCALE NTS	DATE 05/12/14	SHEET 9 OF 10	REV B
L. ROBERTO LOMAS P.E. 1432 WOODBOND RD LEWISVILLE, NC 27023 434-688-0039 lromas@lromaspa.com			
Luis R. Lomas P.E. FL No.: 62514			



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. 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

ENERGI FENESTRATION SOLUTIONS
1085 DES CHEMINOTS
TERREBONNE, QUEBEC, CANADA

SERIES OPERA NG VINYL SLIDING GLASS DOOR
95" X 79" NON-IMPACT OX & XO
FIN INSTALLATION DETAILS

SIGNED: 03/13/2018

DRAWN: V.L.	DWG NO. 08-02330	REV B
SCALE NTS	DATE 05/12/14	SHEET 10 OF 10

L. ROBERTO LOMAS P.E.
1432 WOODPOD RD LEWISTON, ME 04203
434-688-0009 rlomas@lomaspe.com

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

PRODUCT APPROVAL SPECIFICATION SHEET

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and approval numbers on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. Statewide approved products are listed online at www.floridabuilding.org.

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
1. EXTERIOR DOORS			
A. SWINGING			
B. SLIDING	Energi Fenestration	Vinyl Sliding Glass Door	17058.2
C. SECTIONAL/ROLL UP			
D. OTHER			
2. WINDOWS			
A. SINGLE/DOUBLE HUNG			
B. HORIZONTAL SLIDER			
C. CASEMENT			
D. FIXED			
E. MULLION			
F. SKYLIGHTS			
G. OTHER			
3. PANEL WALL			
A. SIDING			
B. SOFFITS			
C. STOREFRONTS			
D. GLASS BLOCK			
E. OTHER			
4. ROOFING PRODUCTS			
A. ASPHALT SHINGLES			
B. NON-STRUCT METAL			
C. ROOFING TILES			
D. SINGLE PLY ROOF			
E. OTHER			
5. STRUCT COMPONENTS			
A. WOOD CONNECTORS			
B. WOOD ANCHORS			
C. TRUSS PLATES			
D. INSULATION FORMS			
E. LINTELS			
F. OTHERS			
6. NEW EXTERIOR			
A. ENVELOPE PRODUCTS			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; (1) copy of the product approval (2) performance characteristics which the product was tested and certified to comply with (3) copy of the applicable manufacturer's installation requirements. Further, I understand these products may have to be removed if approval cannot be demonstrated during inspection.

APPLICANT SIGNATURE

DATE

Plan 3 – Rev 8/15