

City of Belle Isle
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FU 6281
Tel 407-581-8161 \* Fax 407-581-0313 \* www.universalengineering C

REVISION APPLICATION

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED

1924		RECORDING YOUR NOTICE OF COMMENCEMENT.	
		Date: 8-3-20/6	
		Permit Number. Original Permit Number Issued	3
Contact Name	Keith Hastings Courte	reton Phone: 402-868-8294	
Project Address	7902 Dacturler Rd	Belle Isle, FL 7 32809 X 32812	
Nature of Change	Moved upstairs Bet	hoom and Loudey Room	
Change in Job Cost	\$3000, 20 more Face win		
Examiner Approval:	Site Parchitectural Structural Mechanical Me	Move bathrooms only unstanching window to conservent  Amendment Fee 26  Apapa x 33  4 53	
DateFin	alized/Inspected by:	_	
Fee: \$ 53. Cash/Check : 0	8-16-16 Date Rec'd: 8-16-16	Rec'd By:	

	REVISIONS		
REV	DESCRIPTION	DATE	APPROVED
А	REVISED TO ADD FIN TESTING	02/03/15	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.
- 13. APPROVED IMPACT PROTECTIVE SYSTEM <u>IS REQUIRED</u> FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

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NOTES

**ELEVATIONS** 

INSTALLATION DETAILS

- 15, FOR ANCHORING THROUGH FRAME 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 THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16" 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.
- 17. FOR ANCHORING THROUGH FRAME 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 2,000 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 1/8" THICK MINIMUM





SIGNED: 02/03/2015

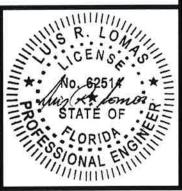
GRANTZ, PA 17030-0	370
650 WEST MARKET STF	REET
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9770 CASEMENT PVC WINDOW NON-IMPACT NOTES

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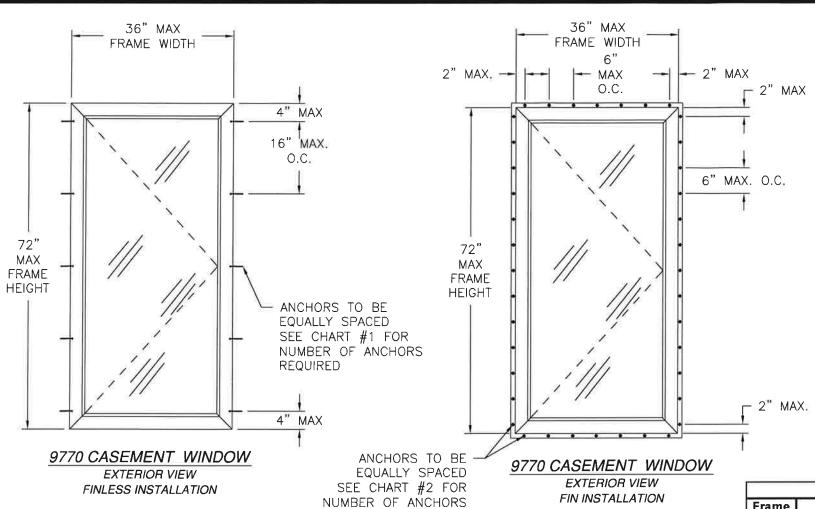
SCALE NTS DATE 09/06/13 SHEET 1 OF 7



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DESCRIPTION



REQUIRED

REVISIONS							
REV	DESCRIPTION	DATE	APPROVED				
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### CHART # 1

	Number of anchor locations required										
Frame	e Frame width (in)										
Height (in)	16.00 Jamb	18.00 Jamb	20.00 Jamb	22.00 Jamb	24.00 Jamb	26.00 Jamb	28.00 Jamb	30.00 Jamb	32.00 Jamb	34.00 Jamb	36.00 Jamb
22.00	2	2	2	2	2	2	2	2	2	2	2
24.00	2	2	2	2	2	2	2	2	2	2	2
30.00	3	3	3	3	3	3	3	3	3	3	3
36.00	3	3	3	3	3	3	3	3	3	3	3
42.00	4	4	4	4	4	4	4	4	4	4	4
48.00	4	4	4	4	4	4	4	4	4	4	4
54.00	4	4	4	4	4	4	4	4	4	4	4
60.00	5	5	5	5	5	5	5	5	5	5	5
62.00	5	5	5	5	5	5	5	5	5	5	5
66.00	5	5	5	5	5	5	5	5	5	5	5
72.00	5	5	5	5	5	5	5	5	5	5	5

### CHART # 2

Reviewed for Code
Compliance
Universal Engineering
Sciences

IMPACT RATING
NONE

	HARDWARE SCHEDULE						
A. (1) MULTI-POINT LOCK WITH 4 KEEPERS AT LOCK STILE							
B.	B. (2) METAL SNUBBERS AT HINGE STILE 24" AND 48" FROM SIL						
C.	1) ROTO-OPERATOR AT SILL 8" FROM HINGE STILE						
D.	(1) 3 BAR HINGE ASSEMBLY AT HEAD HINGE STILE						

NOTES:

1. MAXIMUM D.L.O.: 29 1/4" X 65 1/4"

	Number of anchor locations required														
Frame							Fram	e width	(in)						
Height	18	.00	21.	.00	24	.00	27	.00	30	.00	3:	3.00	36	6.00	
(in)	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	H&S	Jamb	
22.00	4	4	4	4	5	4	5	4	6	4	6	4	7	4	
24.00	4	5	4	5	5	5	5	5	6	5	6	5	7	5	
30.00	4	6	4	6	5	6	5	6	6	6	6	6	7	6	
36.00	4	7	4	7	5	7	5	7	6	7	6	7	7	7	
42.00	4	8	4	8	5	8	5	8	6	8	6	8	7	8	
48.00	4	9	4	9	5	9	5	9	6	9	6	9	7	9	
54.00	4	10	4	10	5	10	5	10	6	10	6	10	7	10	
60.00	4	11	4	11	5	11	5	11	6	11	6	11	7	11	
62.00	4	11	4	11	5	11	5	11	6	11	6	11	7	11	
66.00	4	12	4	12	5	12	5	12	6	12	6	12	7	12	
72.00	4	13	4	13	5	13	5	13	6	13	6	13	7	13	

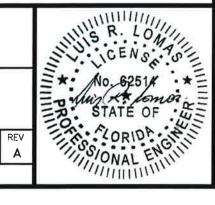
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MI WINDOWS AND DOORS 650 WEST MARKET STREET GRANTZ, PA 17030-0370

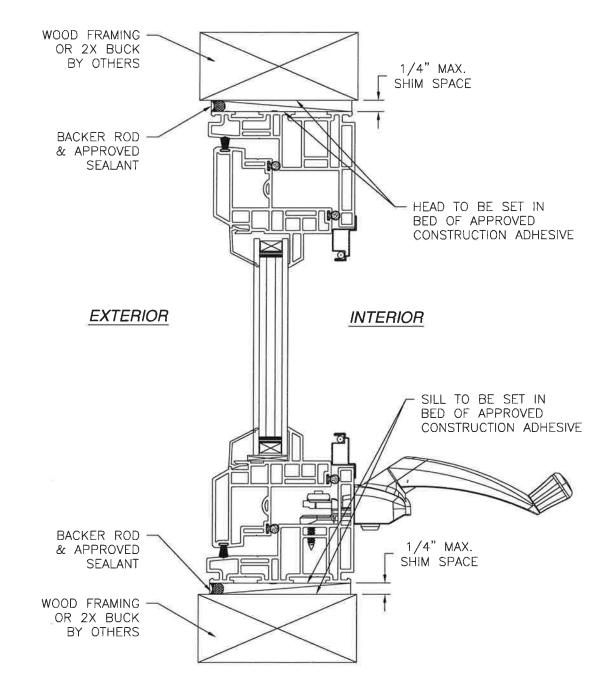
9770 CASEMENT PVC WINDOW NON-IMPACT ELEVATIONS

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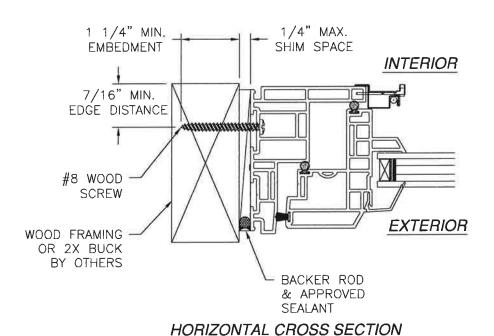
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VERTICAL CROSS SECTION
2X BUCK/WOOD FRAMING INSTALLATION



2X BUCK/WOOD FRAMING INSTALLATION

NOTES:

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE

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



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MI WINDOWS AND DOORS

650 WEST MARKET STREET
GRANTZ, PA 17030-0370

9770 CASEMENT PVC WINDOW
NON-IMPACT
INSTALLATION DETAILS

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V.L.

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08-02221

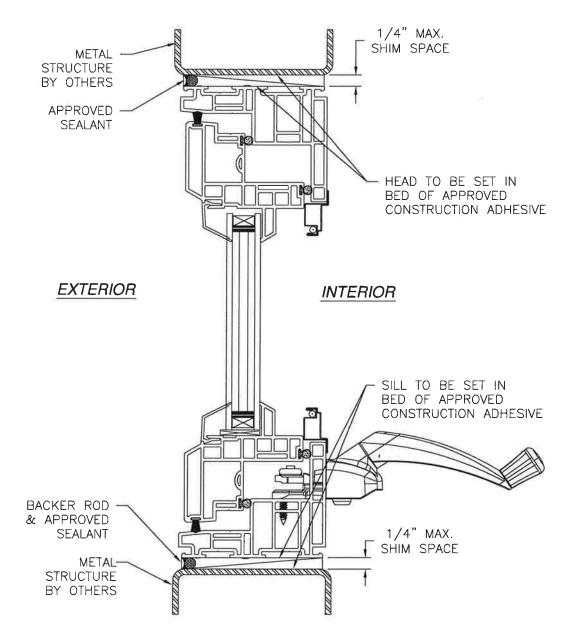
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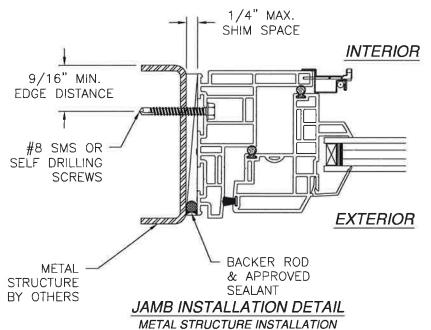
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VERTICAL CROSS SECTION

METAL STRUCTURE INSTALLATION

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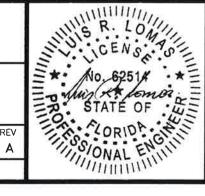


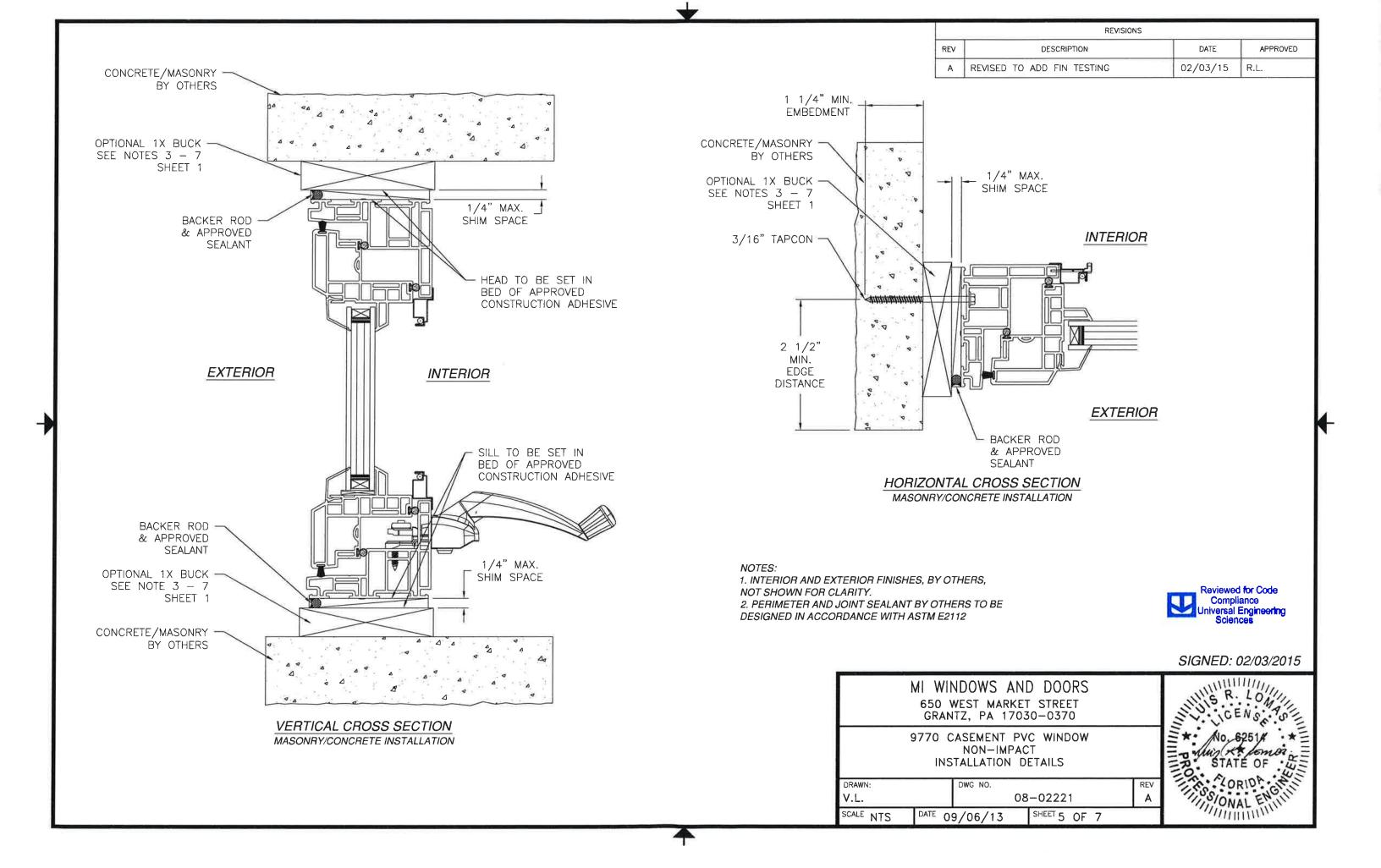
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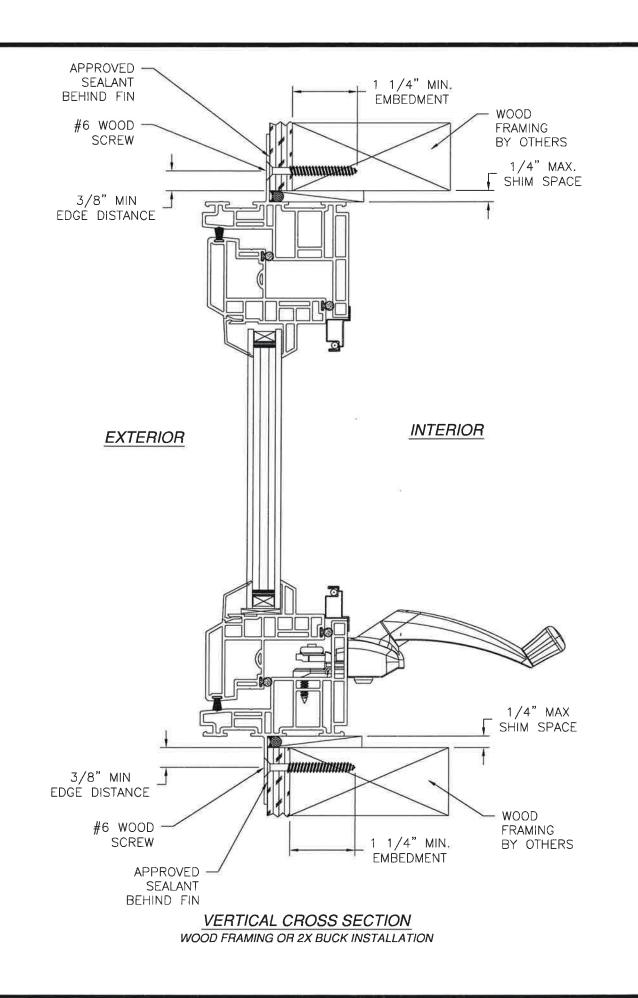
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9770 CASEMENT PVC WINDOW NON-IMPACT INSTALLATION DETAILS

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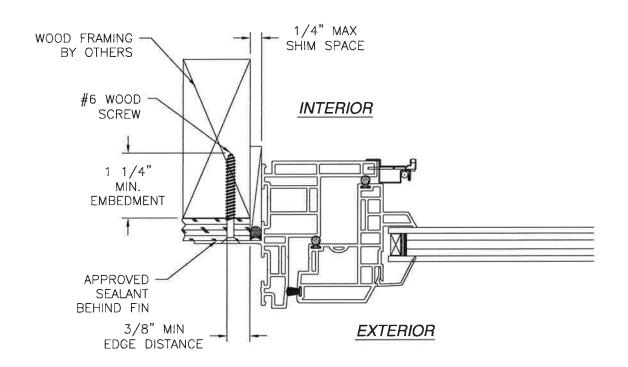




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## JAMB INSTALLATION DETAIL WOOD FRAMING OR 2X BUCK INSTALLATION

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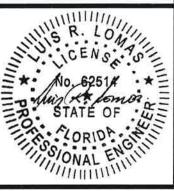
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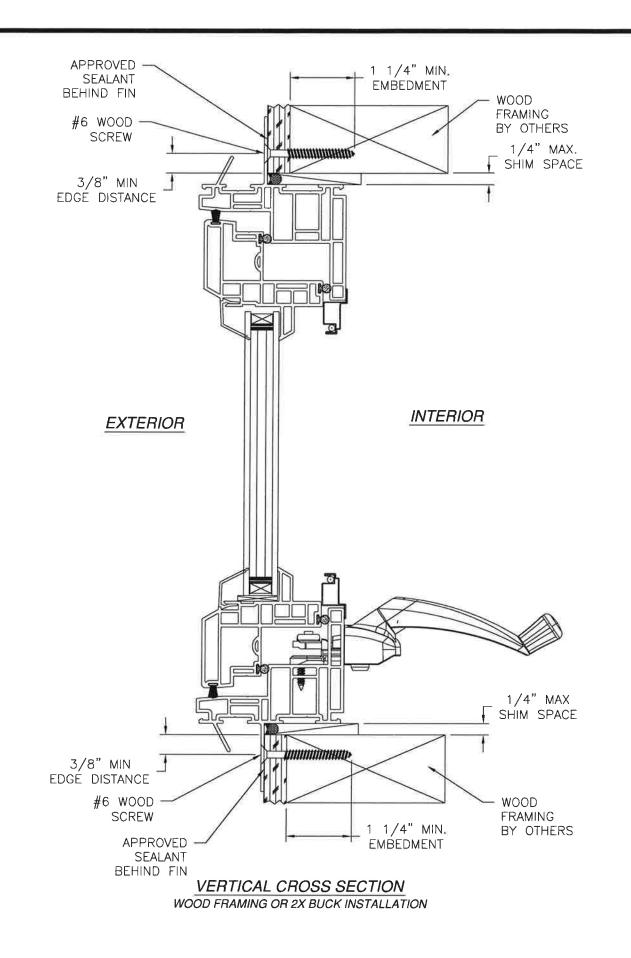
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9770 CASEMENT PVC WINDOW NON-IMPACT FIN INSTALLATION DETAILS								
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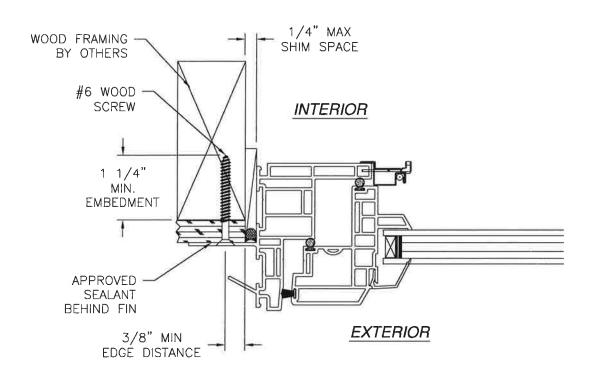




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# JAMB INSTALLATION DETAIL WOOD FRAMING OR 2X BUCK INSTALLATION

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