

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE 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. 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.
4. 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.
5. 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.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. 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”.
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 SMS OR SELF DRILLING SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND 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” 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:

19.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

19.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.

19.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.

19.4. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM

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15	COMPONENTS

MI WINDOWS & DOORS, LLC

650 WEST MARKET STREET

GRATZ, PA 17030–0370

SERIES 1620/1621 SH REINFORCED

NON–IMPACT 47 1/2” X 83 1/2”

NOTES

DRAWN:

DWG NO.

REV

R.L.

08–02998

E

SCALE

DATE

SHEET

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11/30/16

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OF

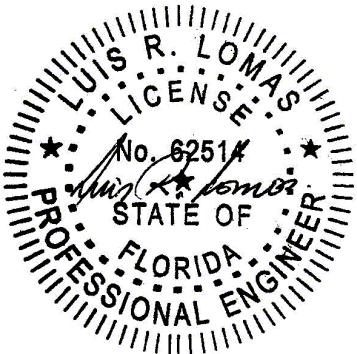
15

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024



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

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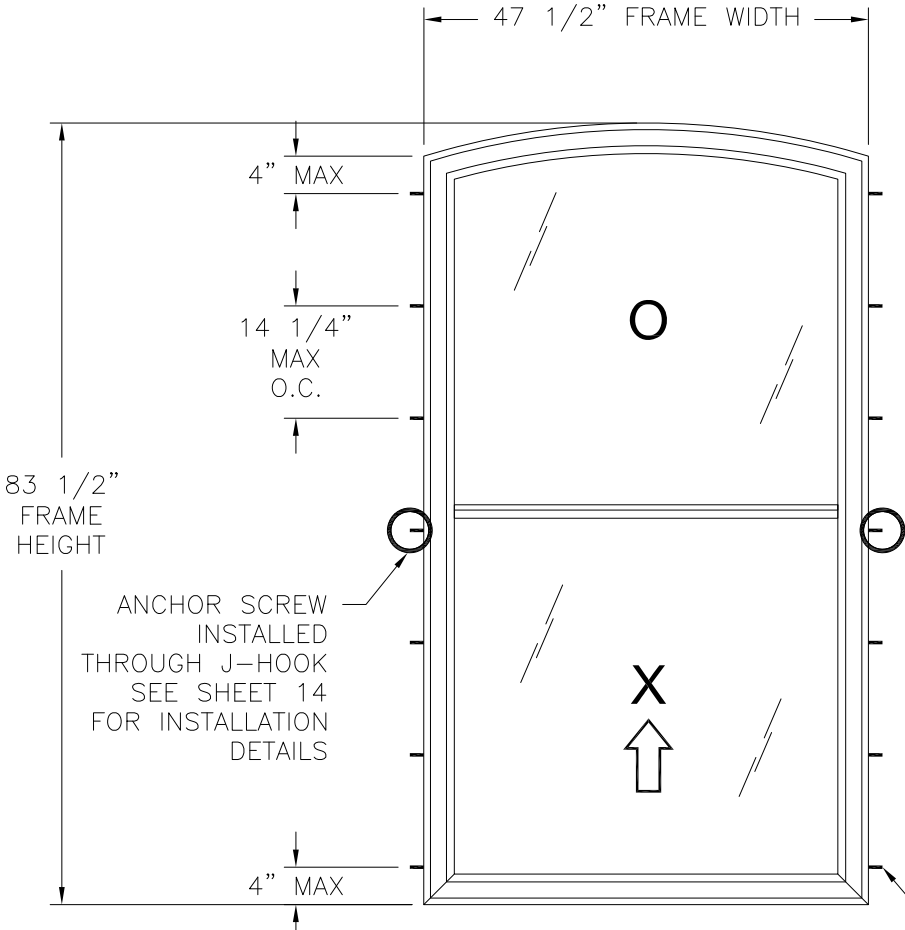
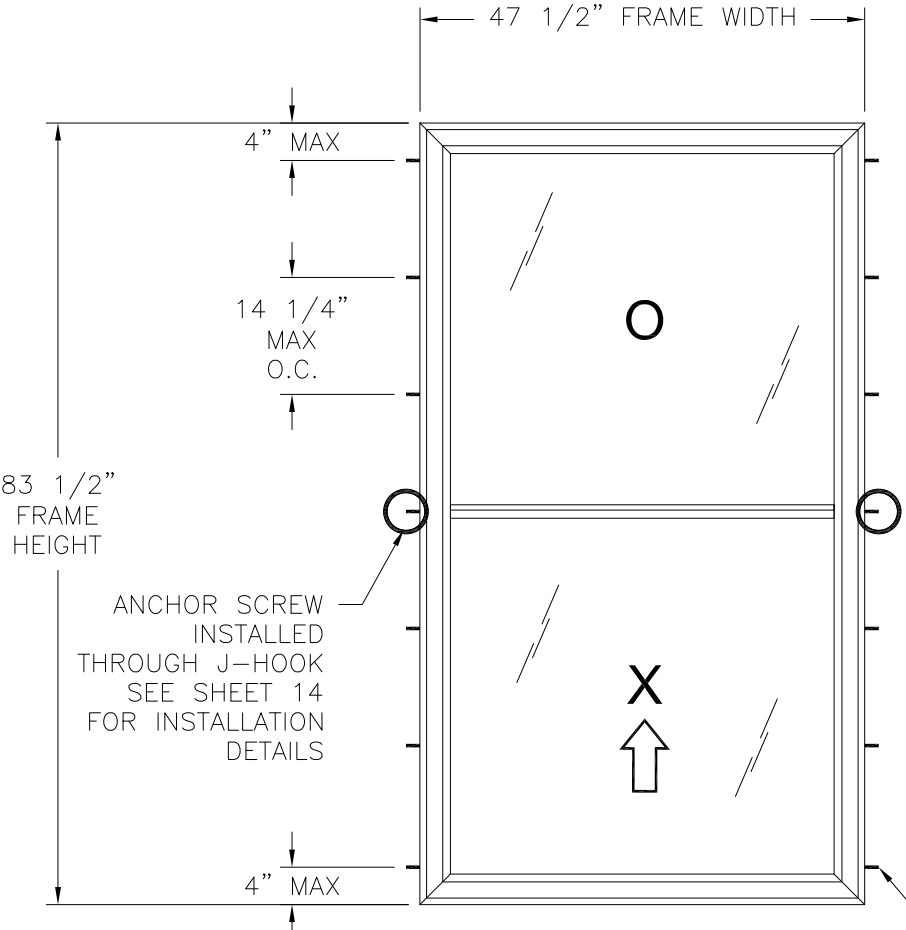


Chart #1						
Number of anchor locations required						
Frame Height (in)	Frame Width (in)					
	18.00	24.00	30.00	36.00	42.00	47.50
	Jamb	Jamb	Jamb	Jamb	Jamb	Jamb
24.00	3	3	3	3	3	3
30.00	3	3	3	3	3	3
36.00	4	4	4	4	4	4
42.00	4	4	4	4	4	4
48.00	5	5	5	5	5	5
54.00	5	5	5	5	5	5
60.00	5	5	5	5	5	5
66.00	6	6	6	6	6	6
72.00	6	6	6	6	6	6
78.00	7	7	7	7	7	7
83.50	7	7	7	7	7	7

FOR NUMBER OF ANCHORS REQUIRED SEE CHART #1

FOR NUMBER OF ANCHORS REQUIRED SEE CHART #1

DESIGN PRESSURE RATING	IMPACT RATING
±45.0PSF	NONE

47 1/2" X 83 1/2" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS FRAME AREA DOES NOT EXCEED 27.54" FT²

- NOTES:
- SASH SIZE: 44 3/4" X 41 9/16"
 - D.L.O.: 42 3/4" X 38"

HARDWARE SCHEDULE	
A.	(2) CAM LOCK, 7" FROM EACH CORNER AT TOP RAIL OF SASH
B.	(2) TILT LATCH AT TOP RAIL OF SASH, AT EACH CORNER
C.	(2) COIL BALANCES AT SASH POCKET OF JAMBS
D.	ALUMINUM REINFORCEMENT (AE-000162) AT MEETING RAIL
E.	ALUMINUM REINFORCEMENT (M-2115) AT LOCK RAIL
F.	ALUMINUM REINFORCEMENT (M-2266) AT STILES

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 47 1/2" X 83 1/2"
FINLESS & FLANGE ELEVATIONS

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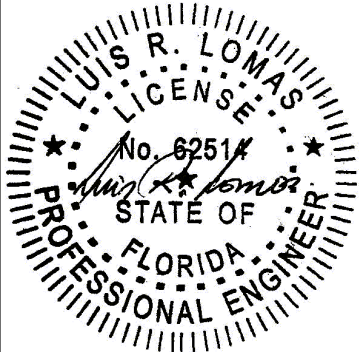
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SHEET 2 OF 15

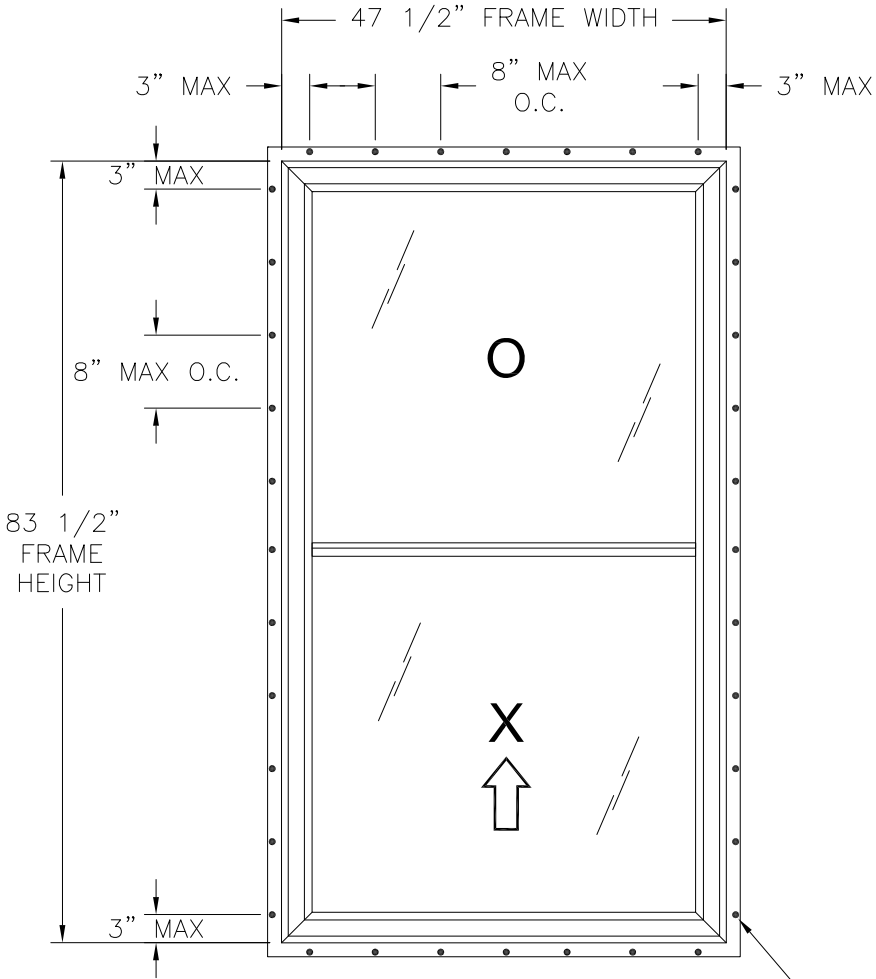
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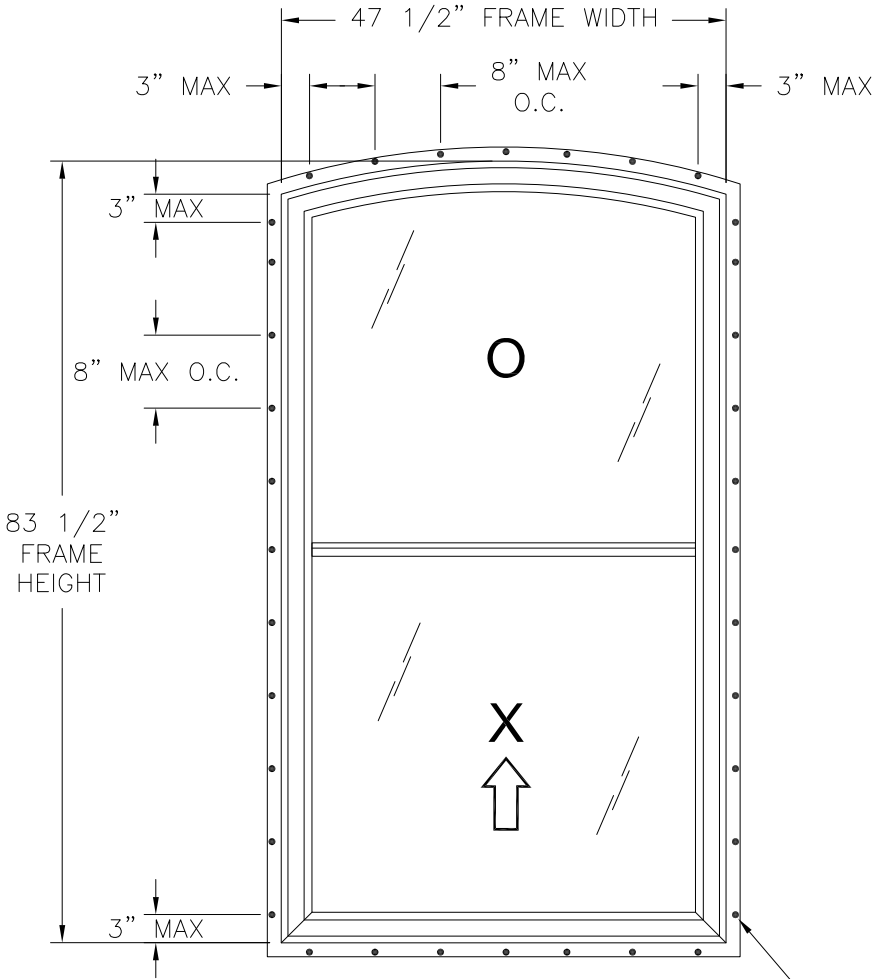
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1620/1621 SH REINFORCED
RECTANGULAR
EXTERIOR VIEW
FIN INSTALLATION

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #2



1620/1621 SH REINFORCED
DESIGNER
EXTERIOR VIEW
FIN INSTALLATION

FOR NUMBER
OF ANCHORS
REQUIRED
SEE CHART #2

Chart #2												
Number of anchor locations required												
Frame Height (in)	Frame Width (in)											
	18.00		24.00		30.00		36.00		42.00		47.50	
	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb	H & S	Jamb
24.00	3	4	4	4	4	4	5	4	6	4	7	4
30.00	3	4	4	4	4	4	5	4	6	4	7	4
36.00	3	5	4	5	4	5	5	5	6	5	7	5
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54.00	3	7	4	7	4	7	5	7	6	7	7	7
60.00	3	8	4	8	4	8	5	8	6	8	7	8
66.00	3	9	4	9	4	9	5	9	6	9	7	9
72.00	3	10	4	10	4	10	5	10	6	10	7	10
78.00	3	10	4	10	4	10	5	10	6	10	7	10
83.50	3	11	4	11	4	11	5	11	6	11	7	11

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	NONE

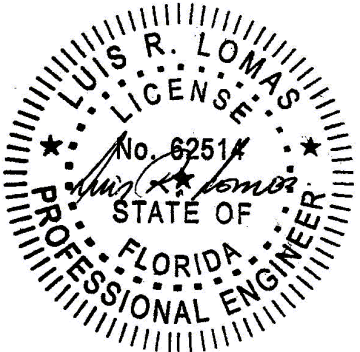
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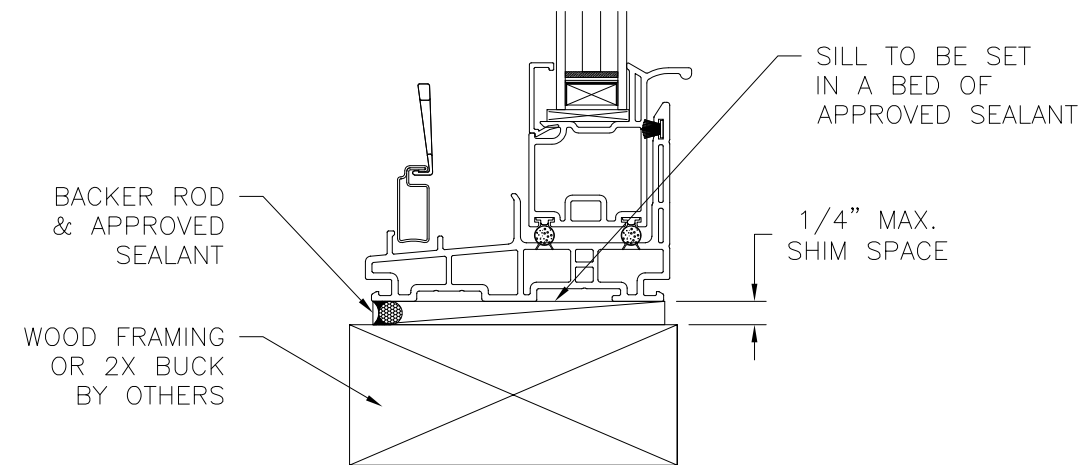
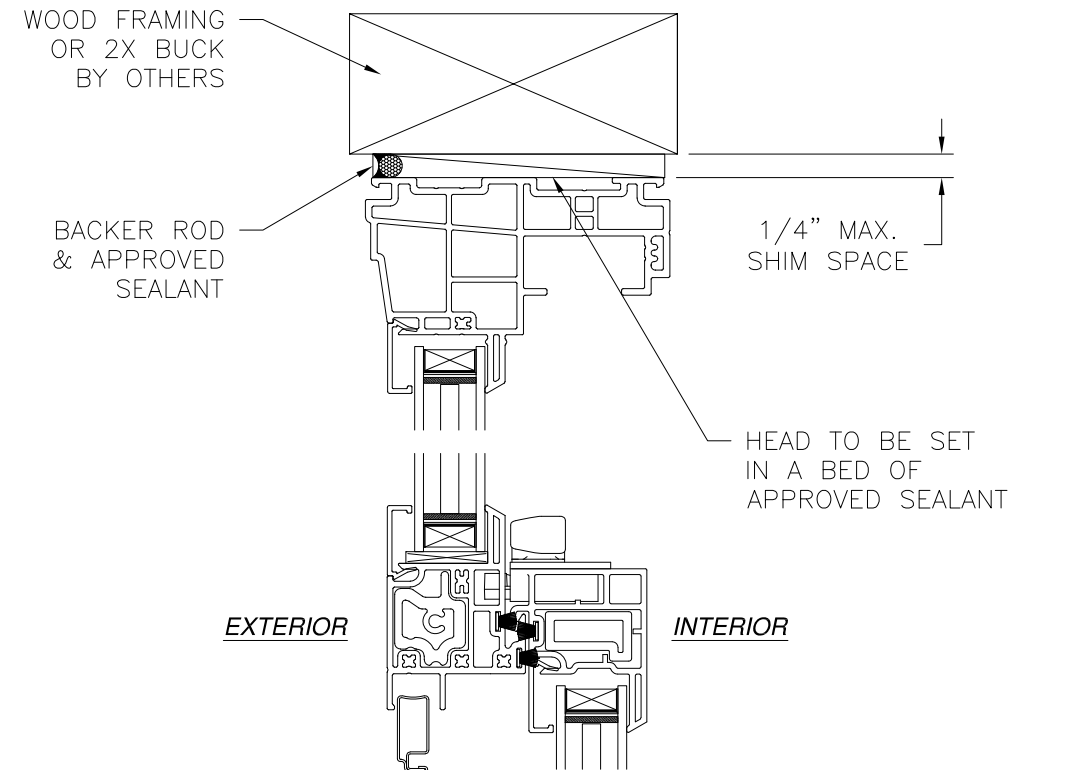
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 47 1/2" X 83 1/2" FIN ELEVATIONS		
DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 3 OF 15
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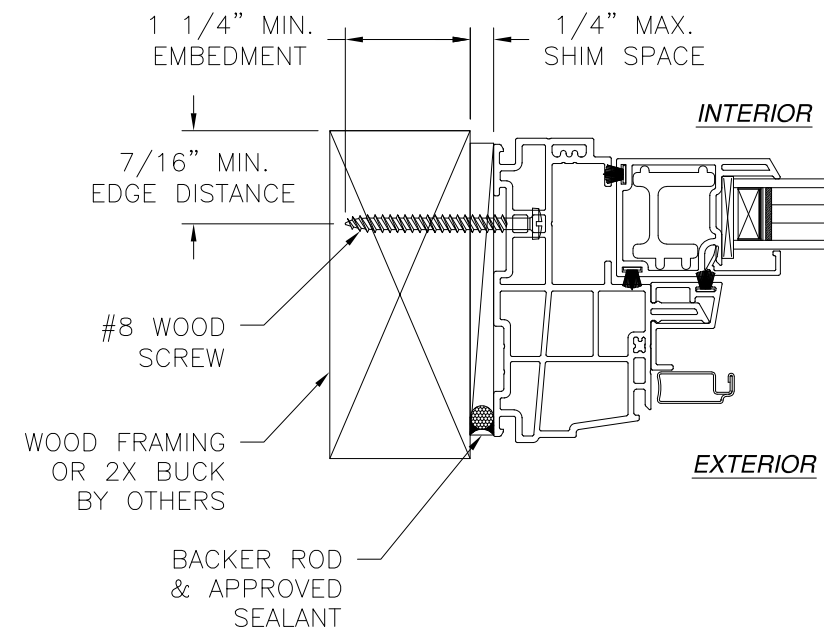
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

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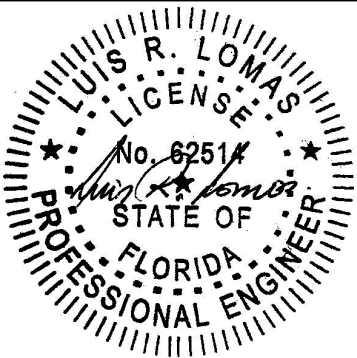
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

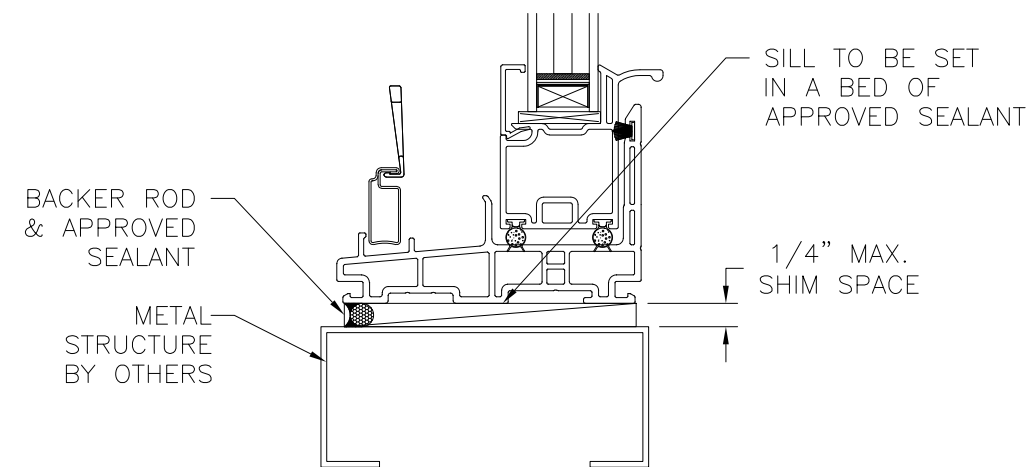
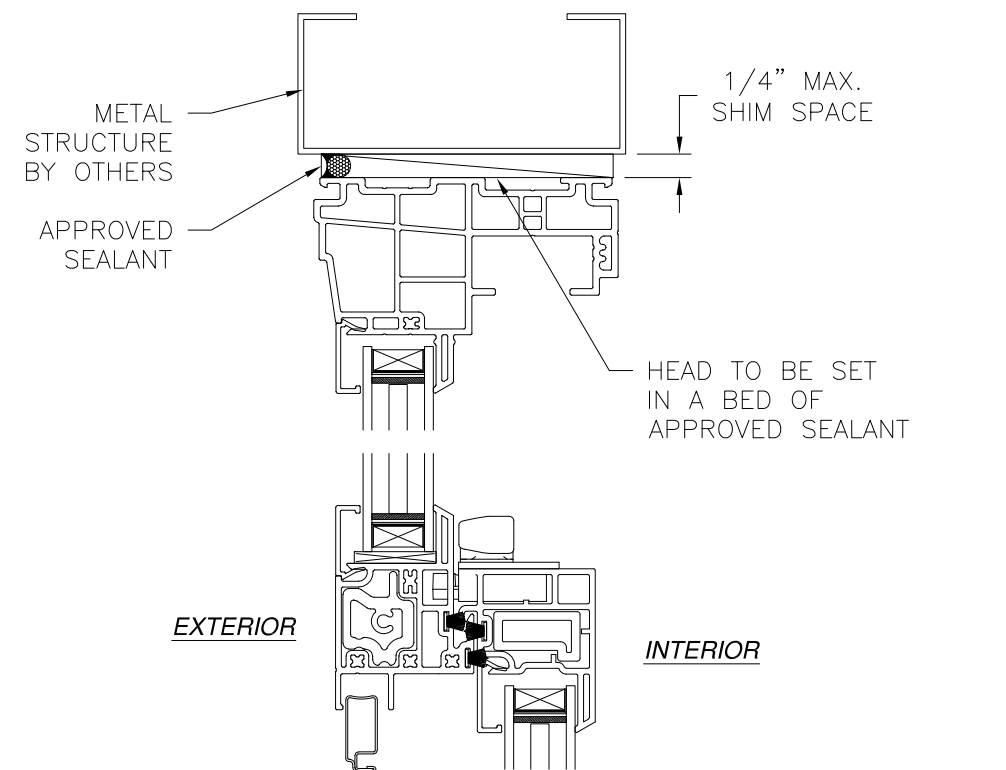
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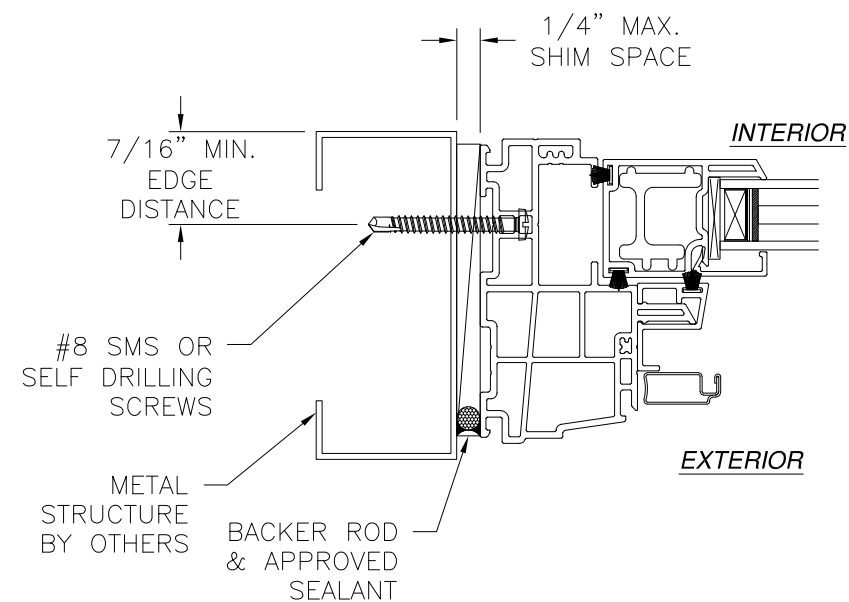
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

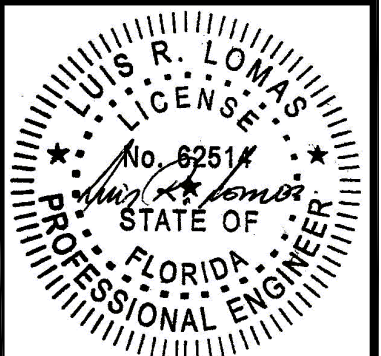
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METAL STRUCTURE INSTALLATION

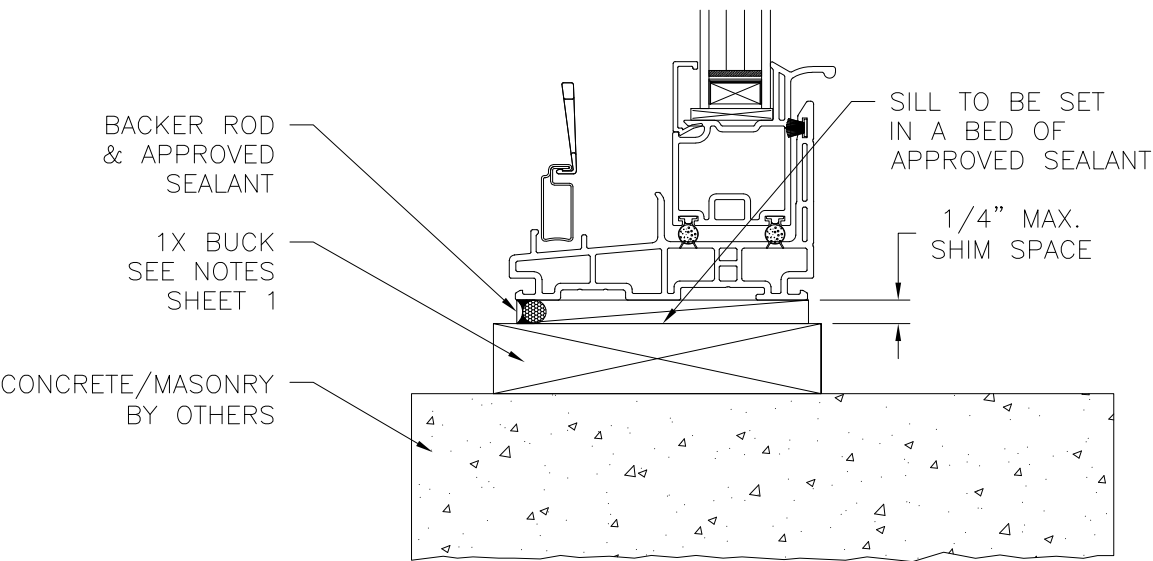
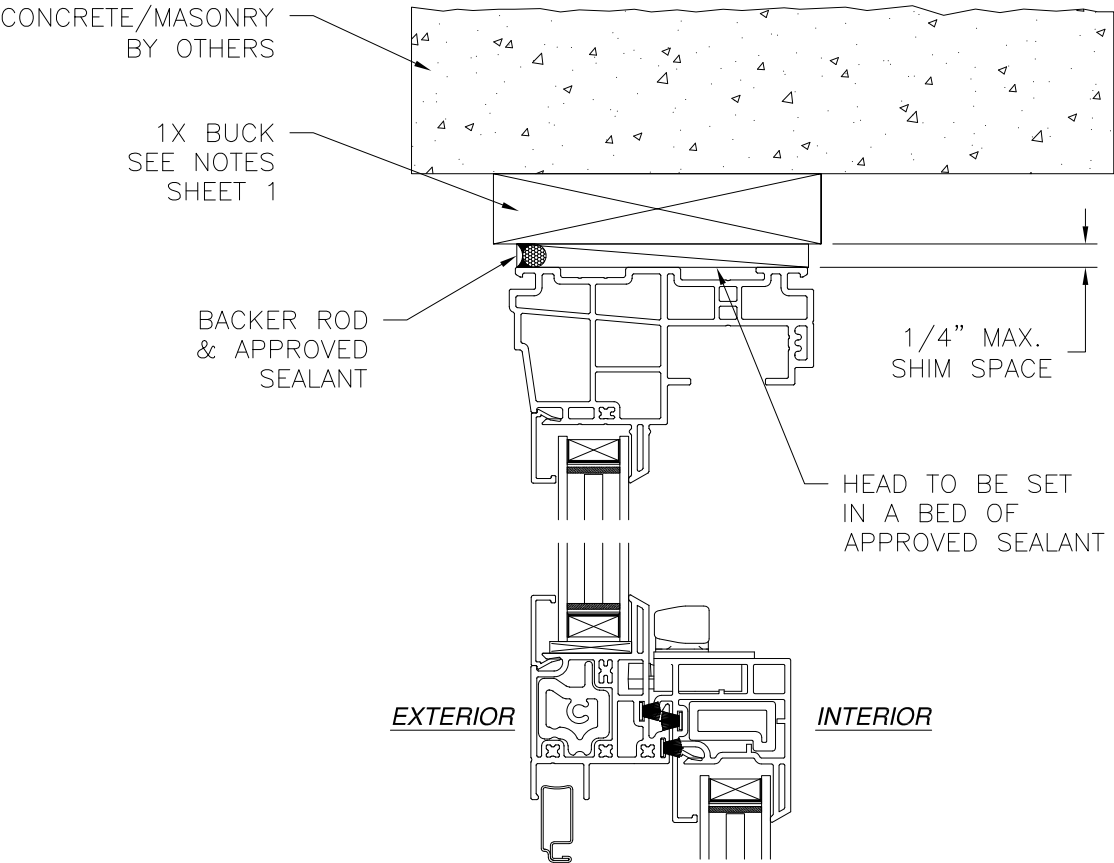
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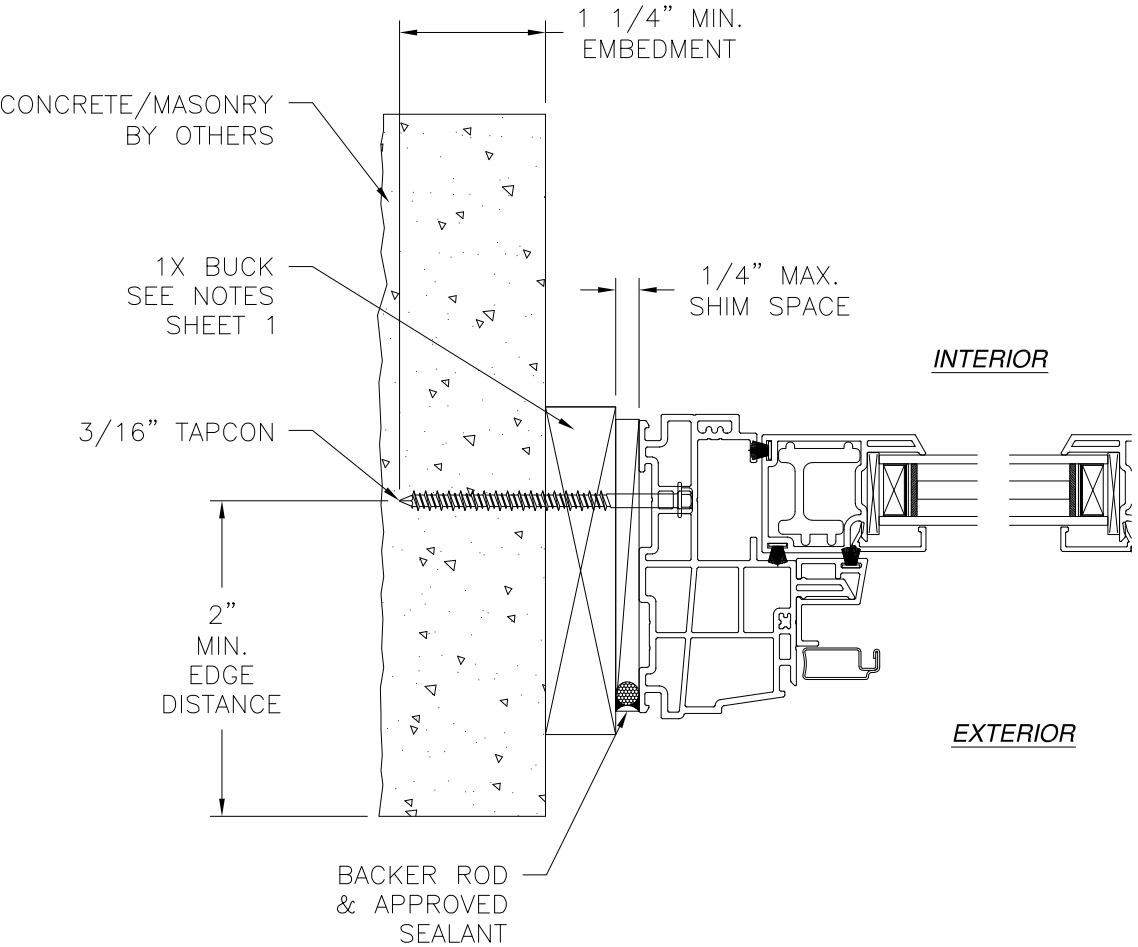
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 47 1/2" X 83 1/2"
FINLESS INSTALLATION DETAILS

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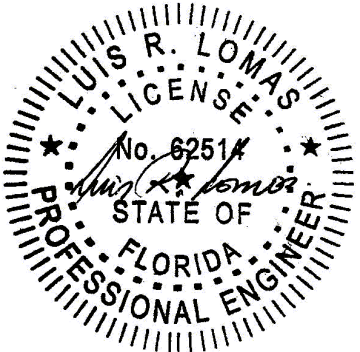
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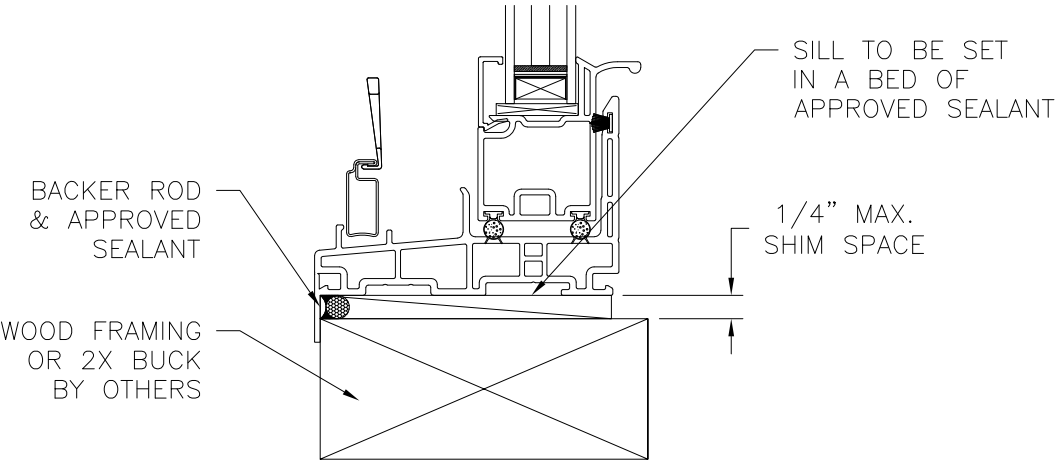
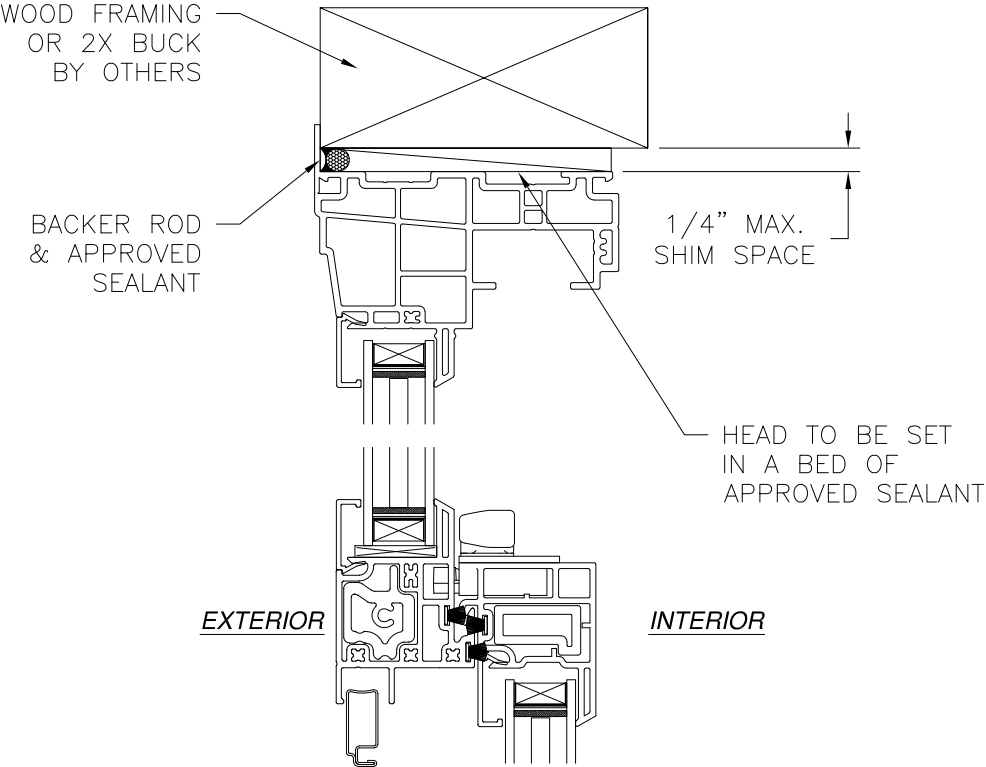
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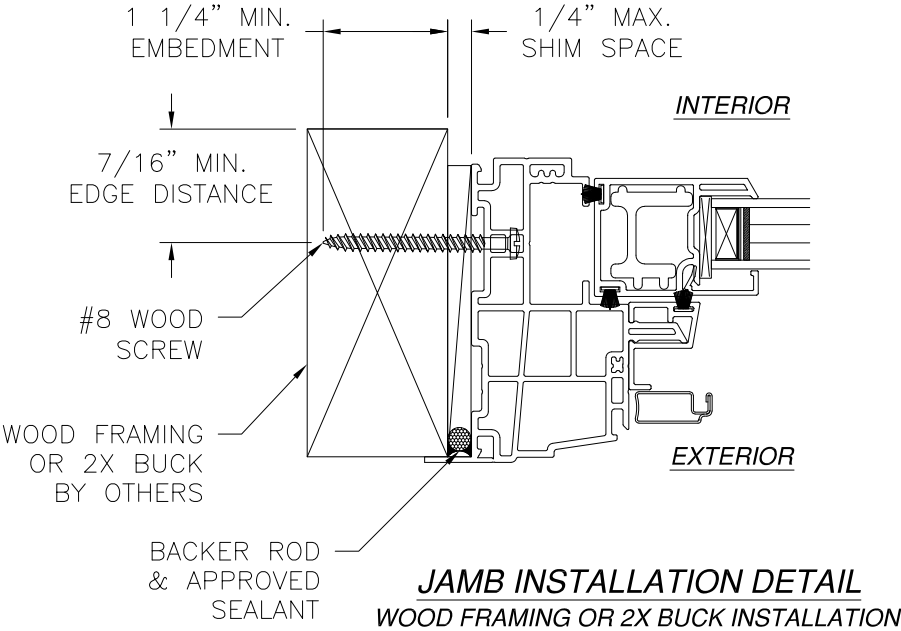
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VERTICAL CROSS SECTION
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FLANGE INSTALLATION DETAILS

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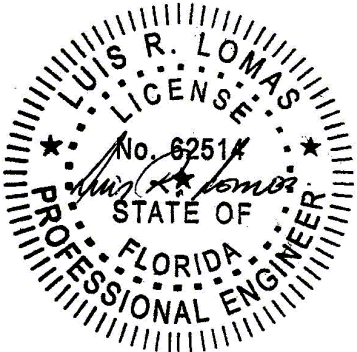
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SHEET 7 OF 15

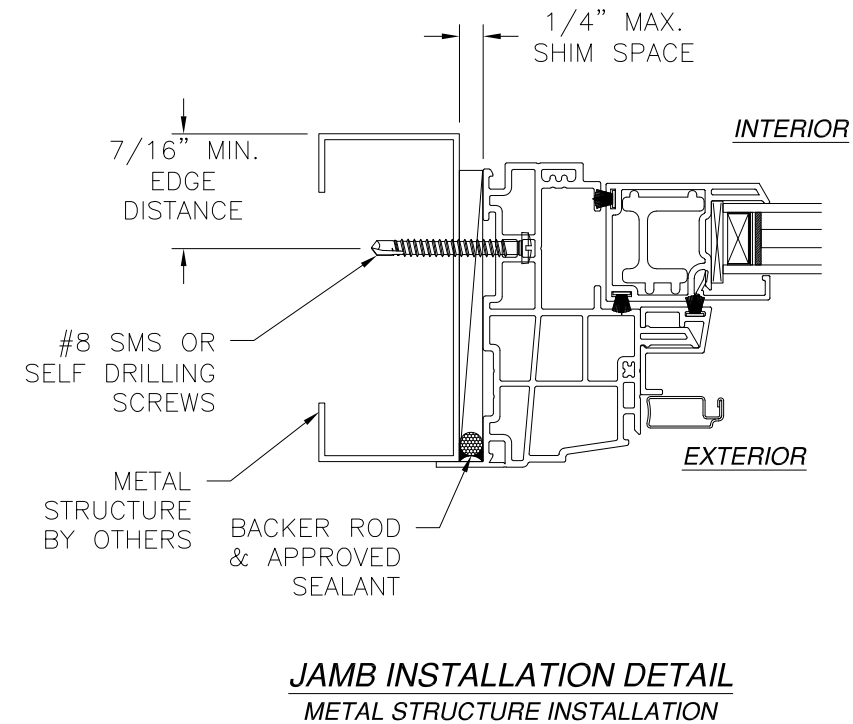
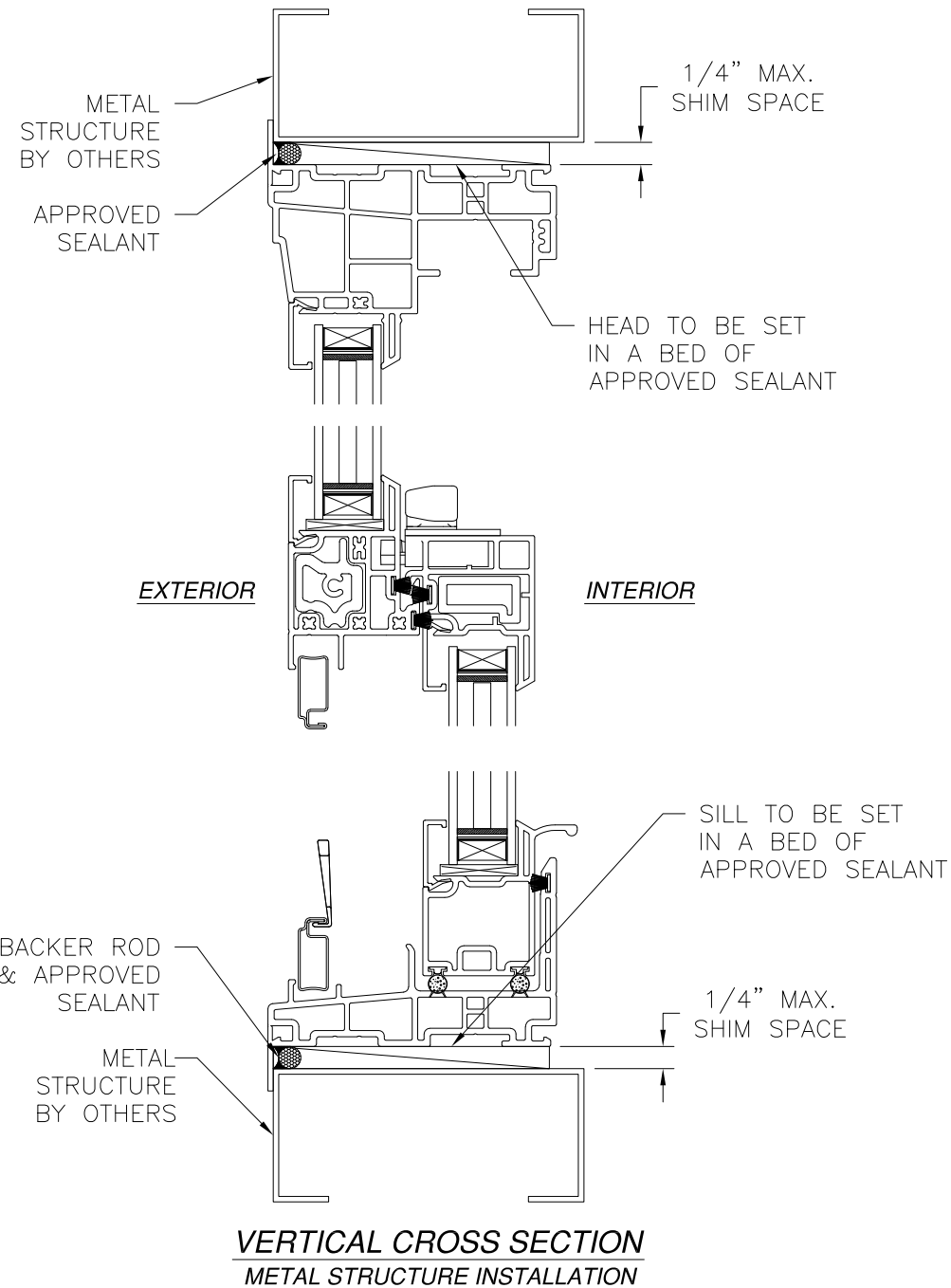
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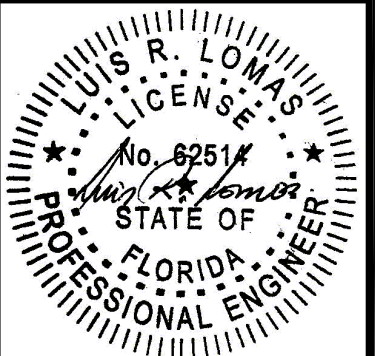
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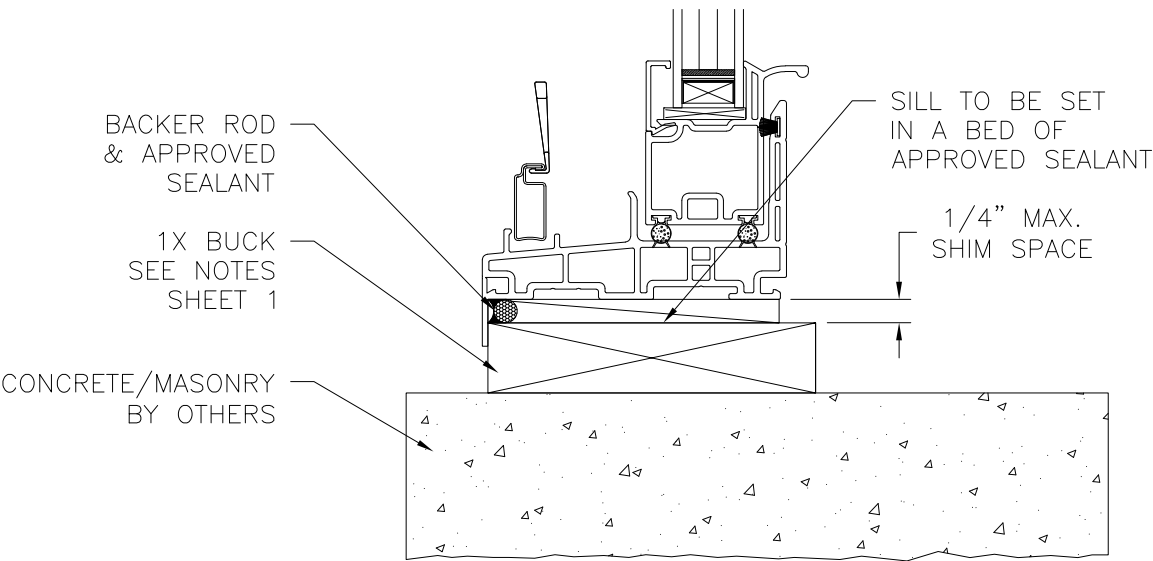
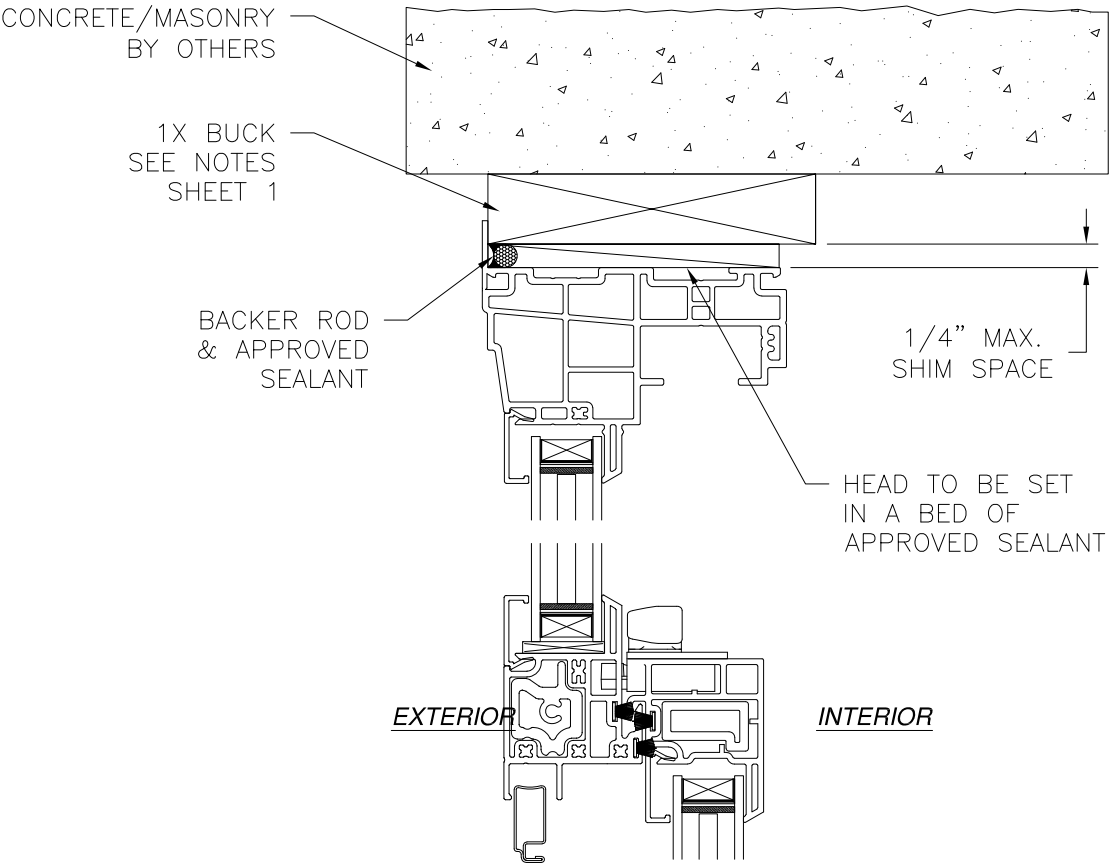
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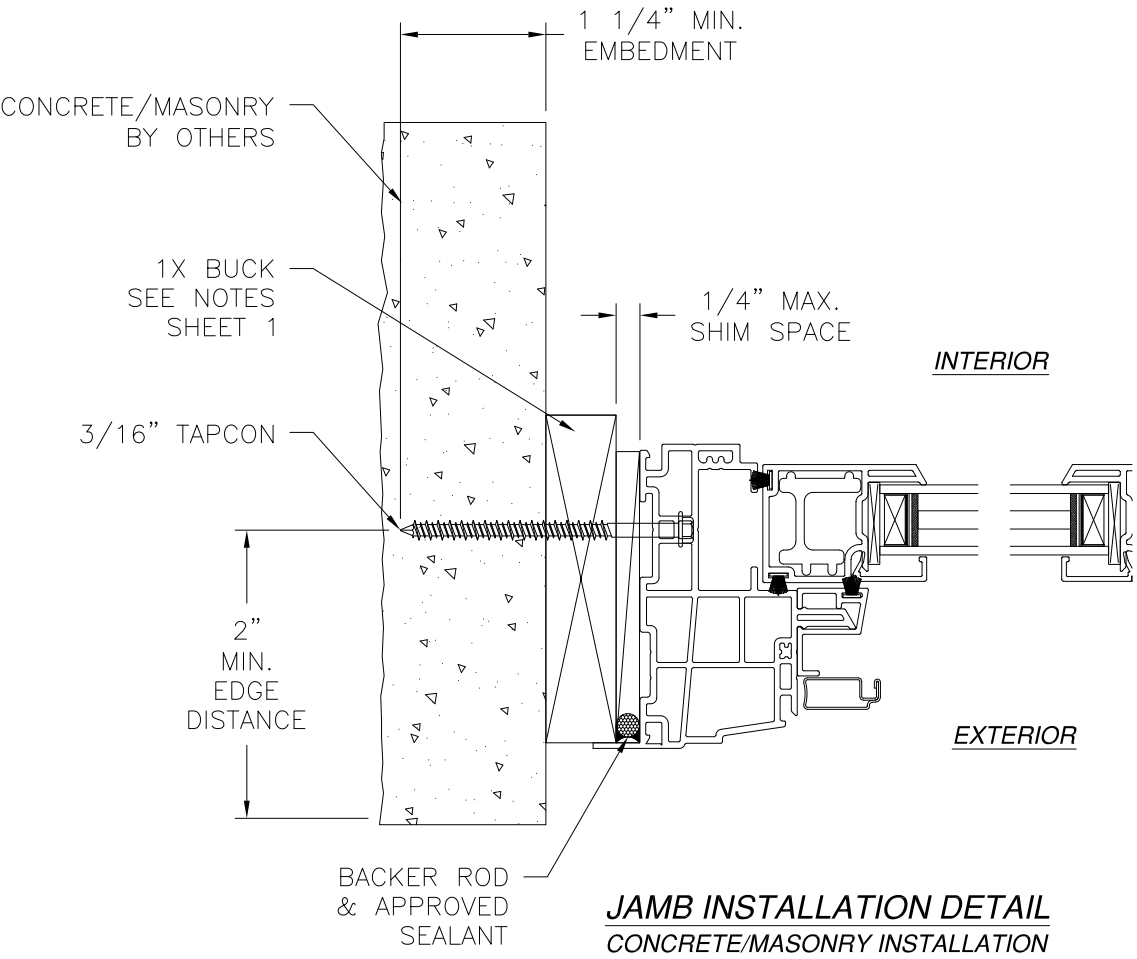
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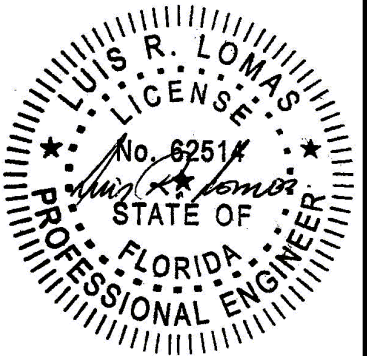
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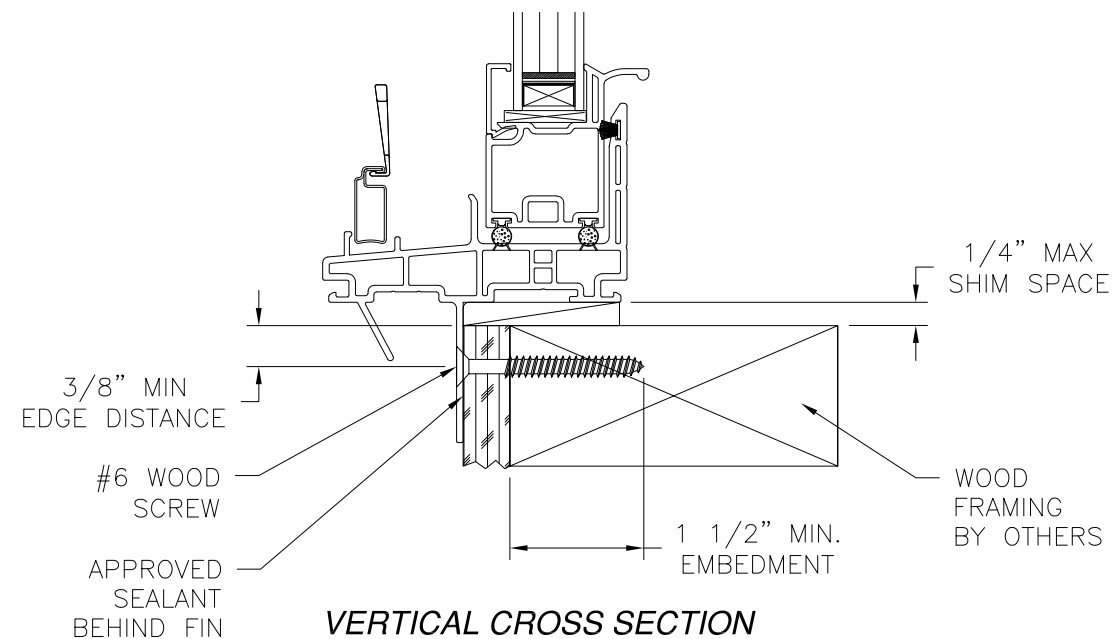
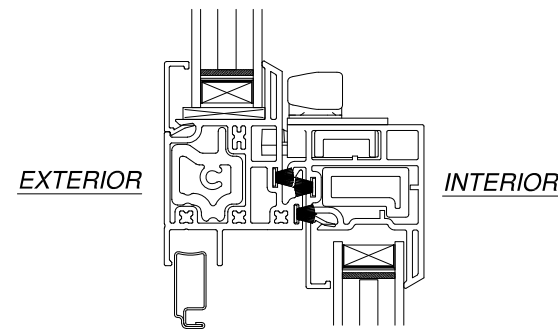
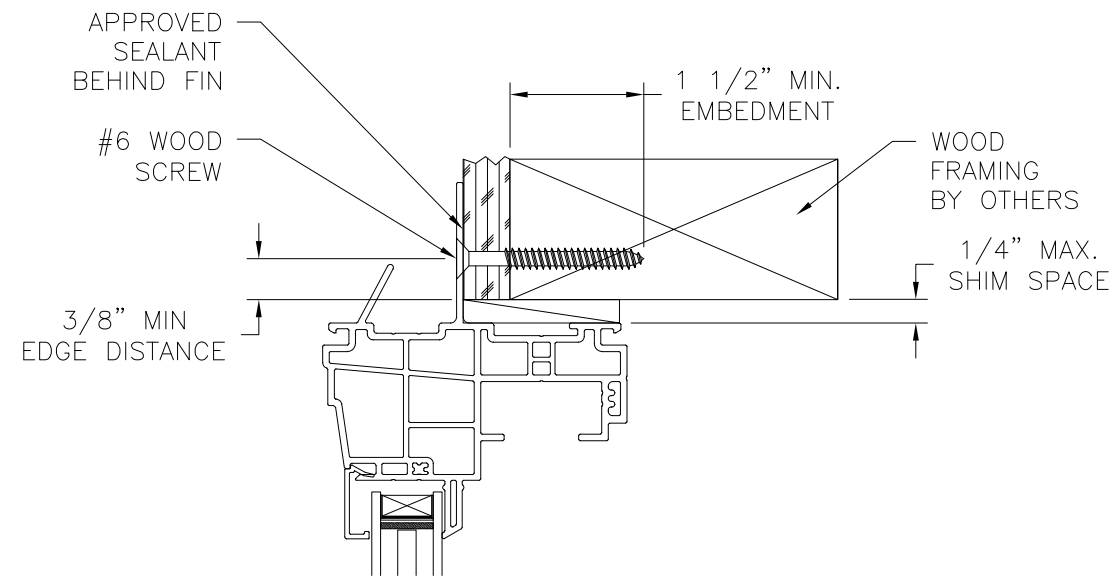


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SCALE NTS	DATE 11/30/16	SHEET 9 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



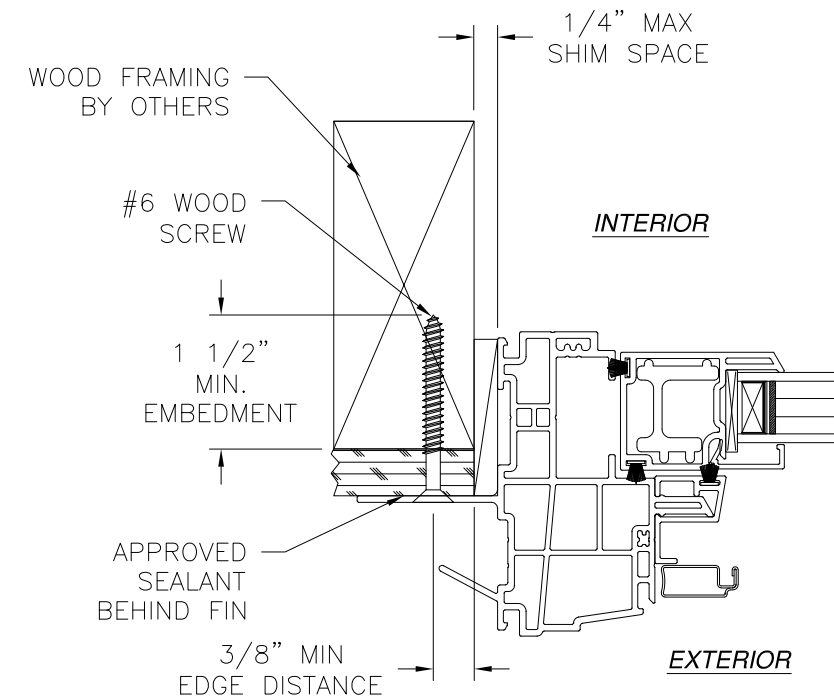
Luis R. Lomas P.E.
FL No.: 62514



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

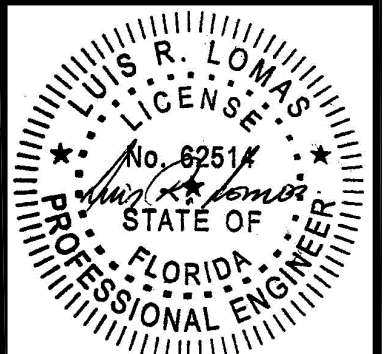
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

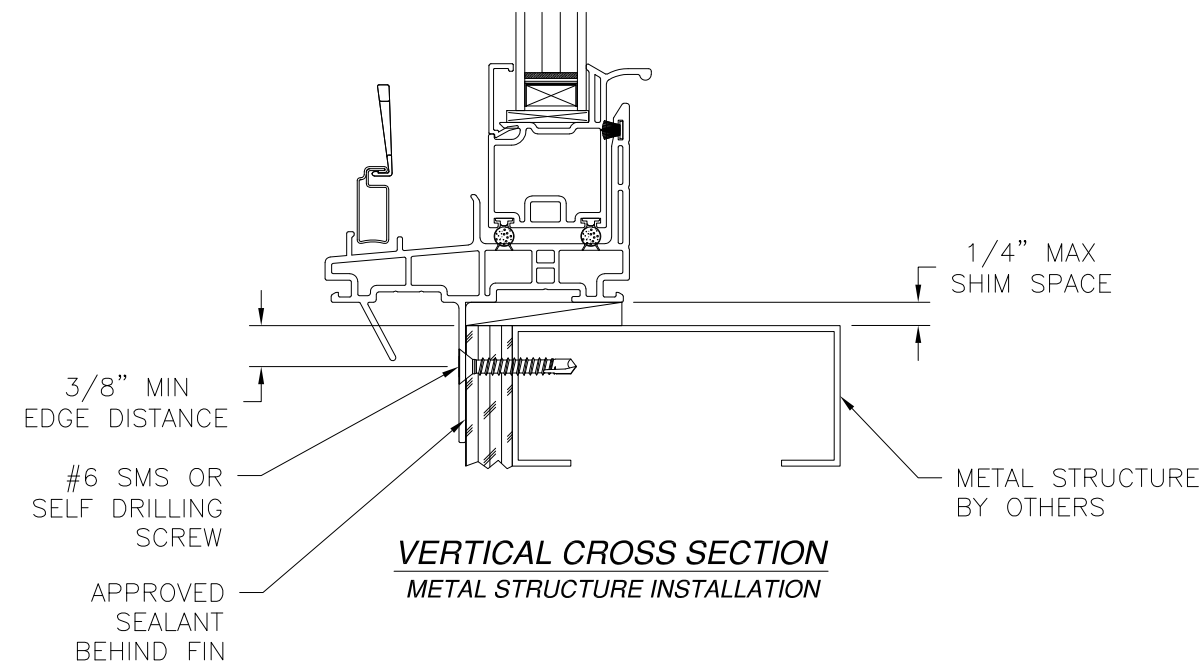
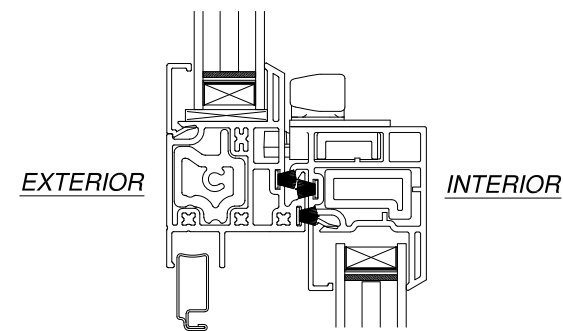
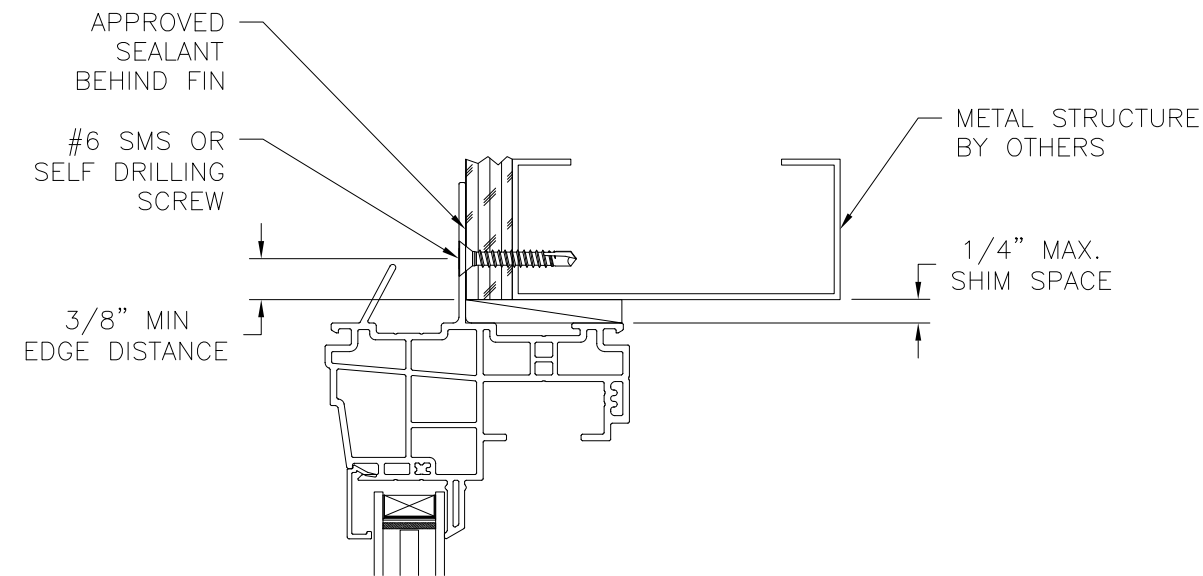
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 47 1/2" X 83 1/2" FIN WITH J CHANNEL INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 10 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024

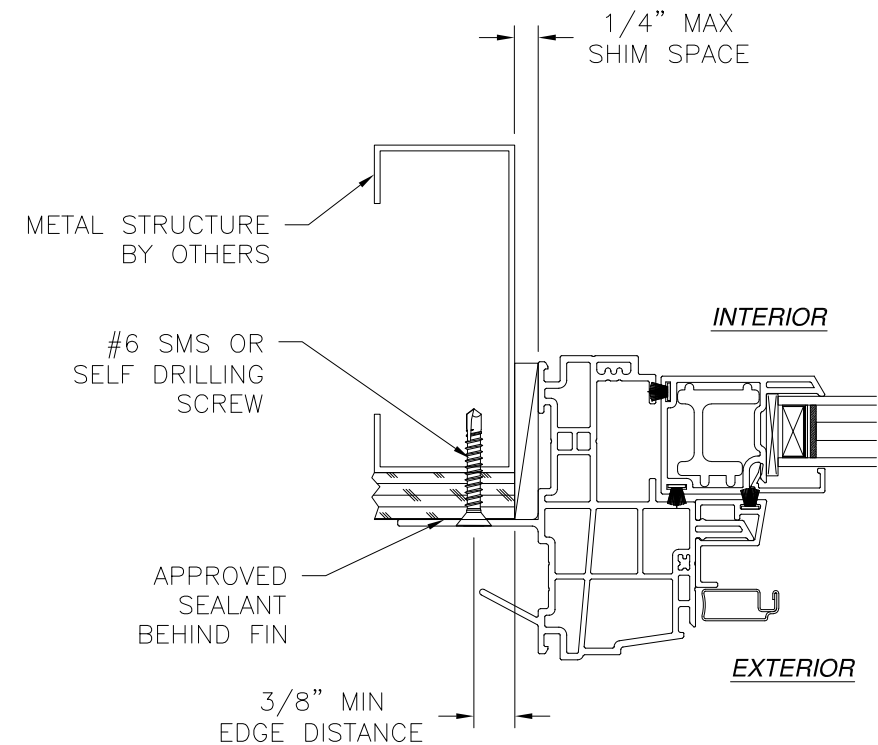


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



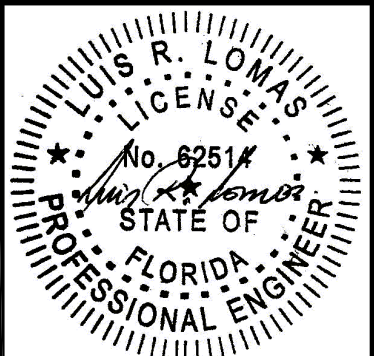
- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 - PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



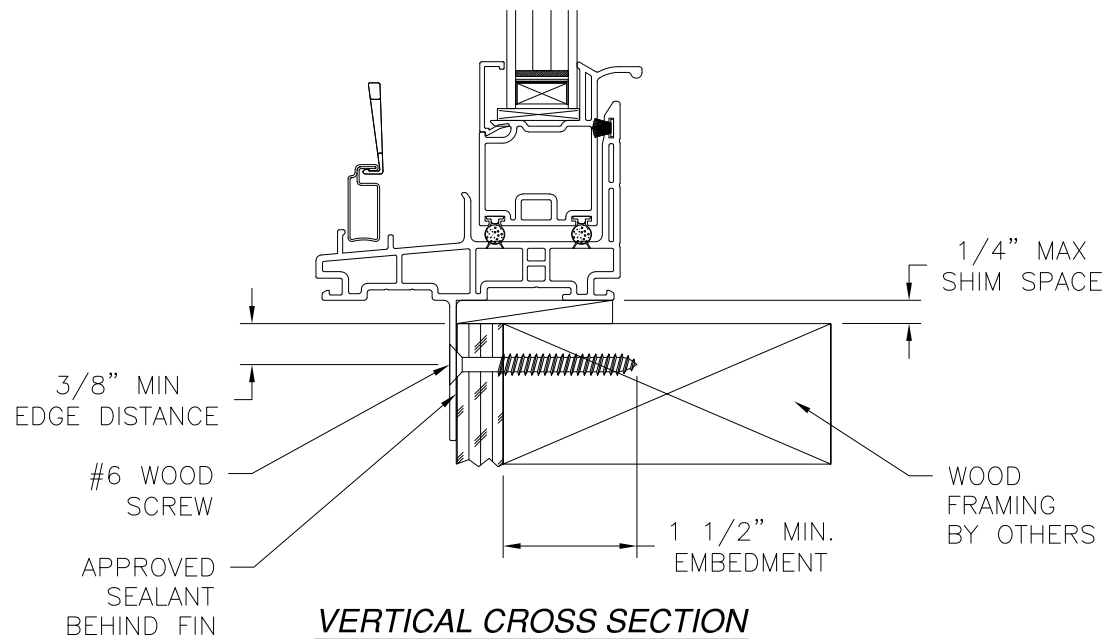
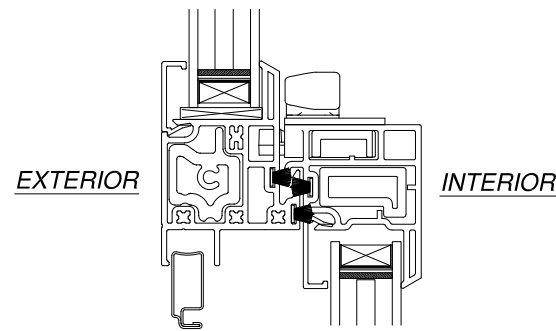
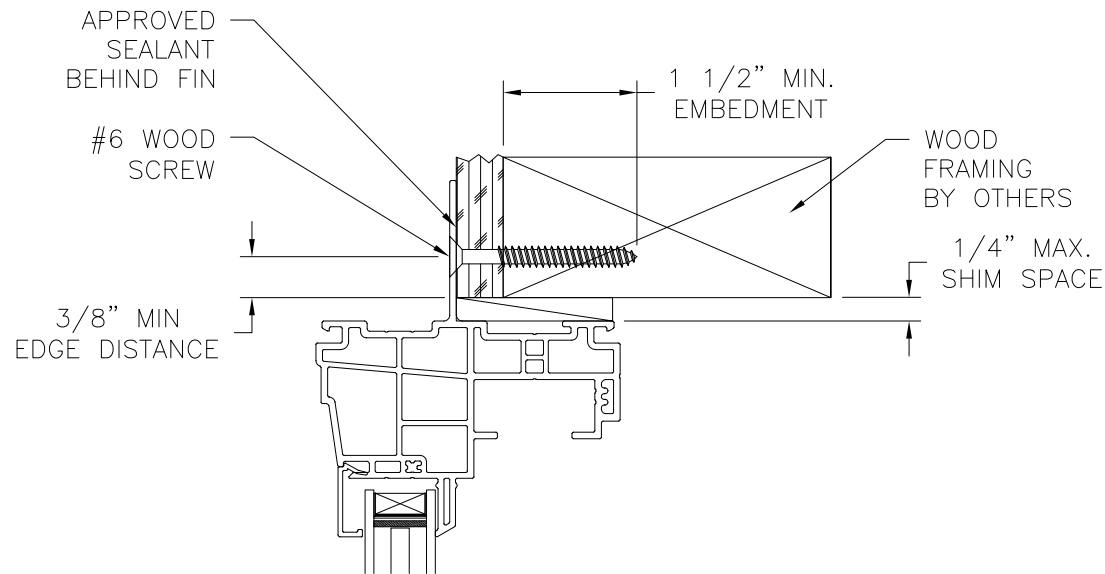
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 47 1/2" X 83 1/2" FIN WITH J CHANNEL INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 11 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



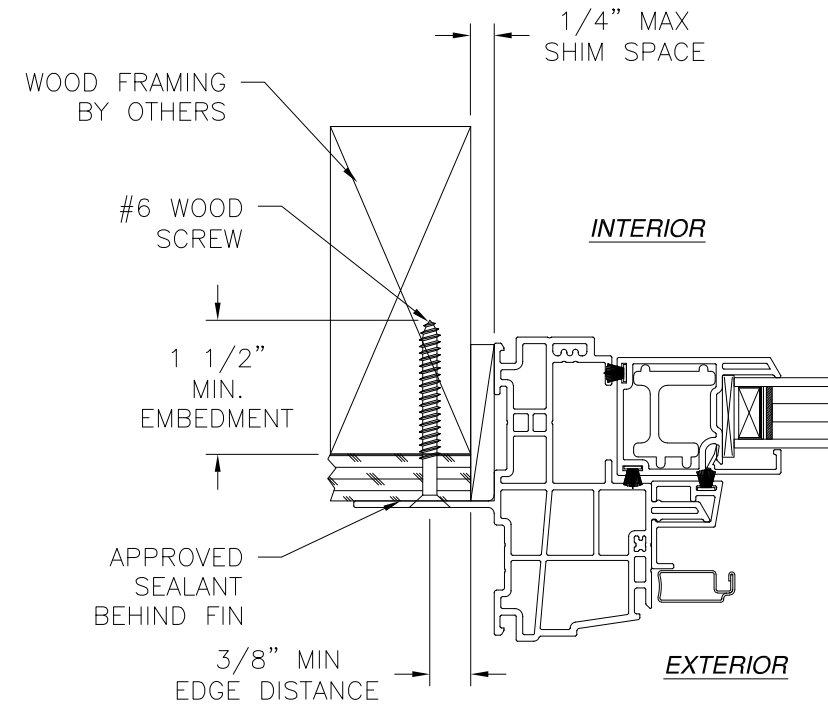
Luis R. Lomas P.E.
FL No.: 62514



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

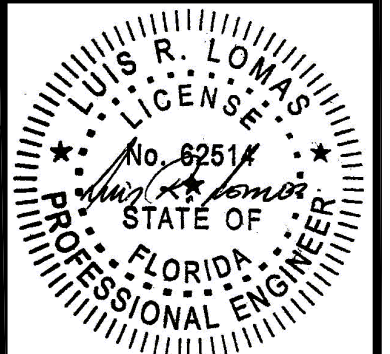
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REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



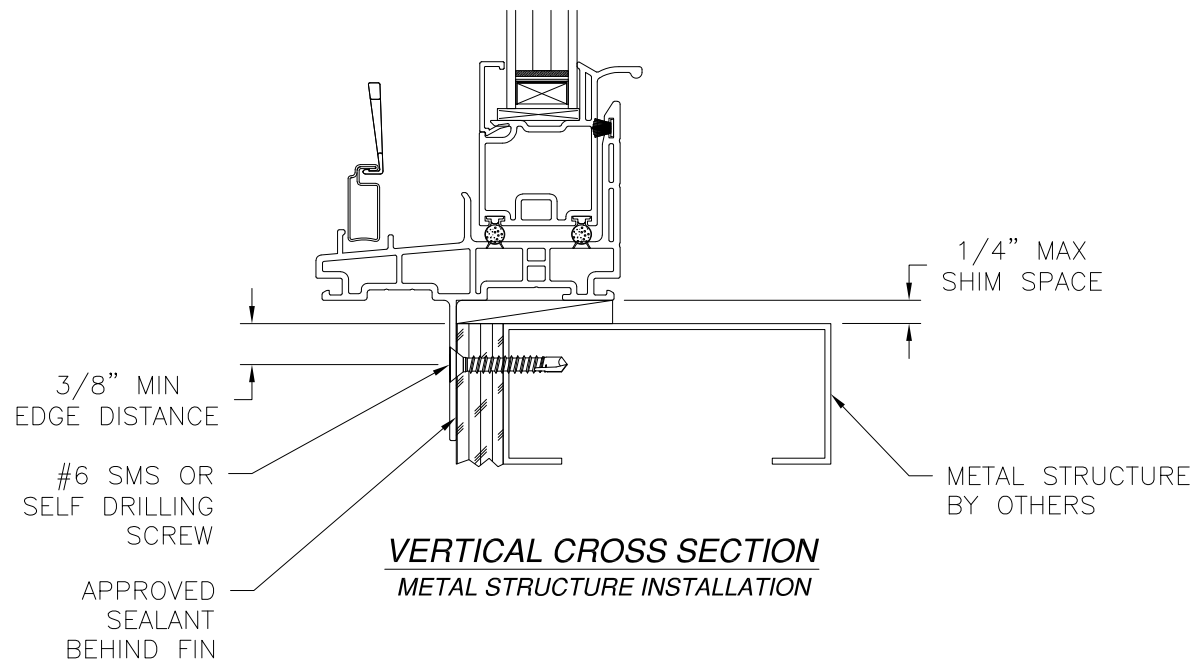
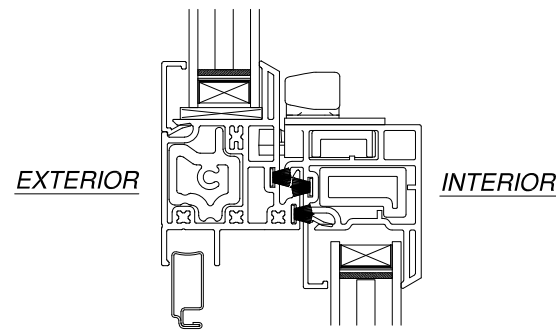
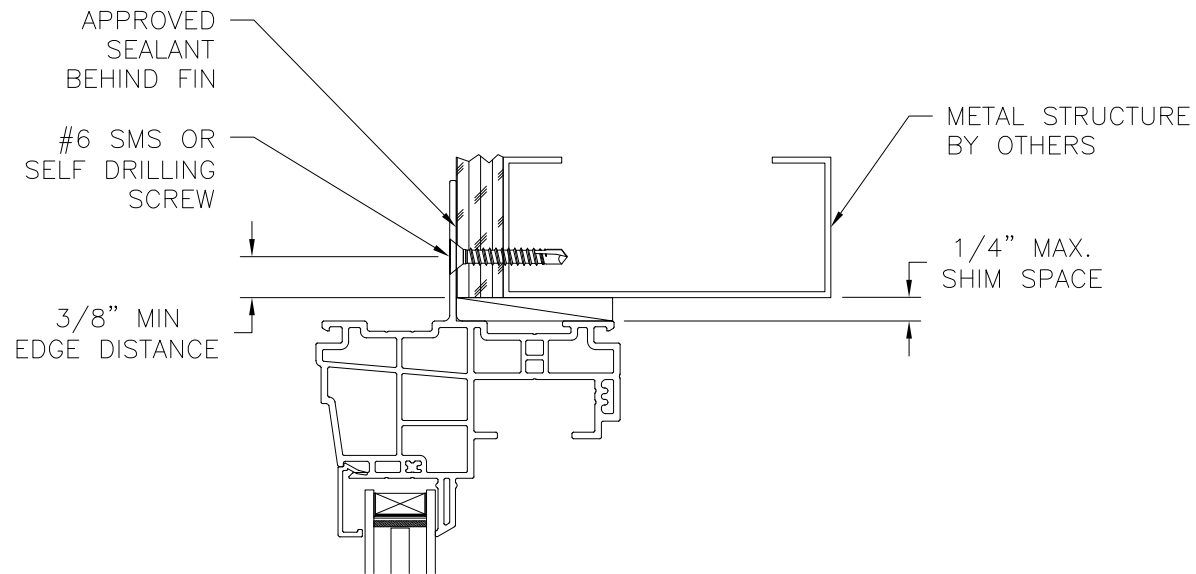
JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 47 1/2" X 83 1/2" FIN INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 12 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



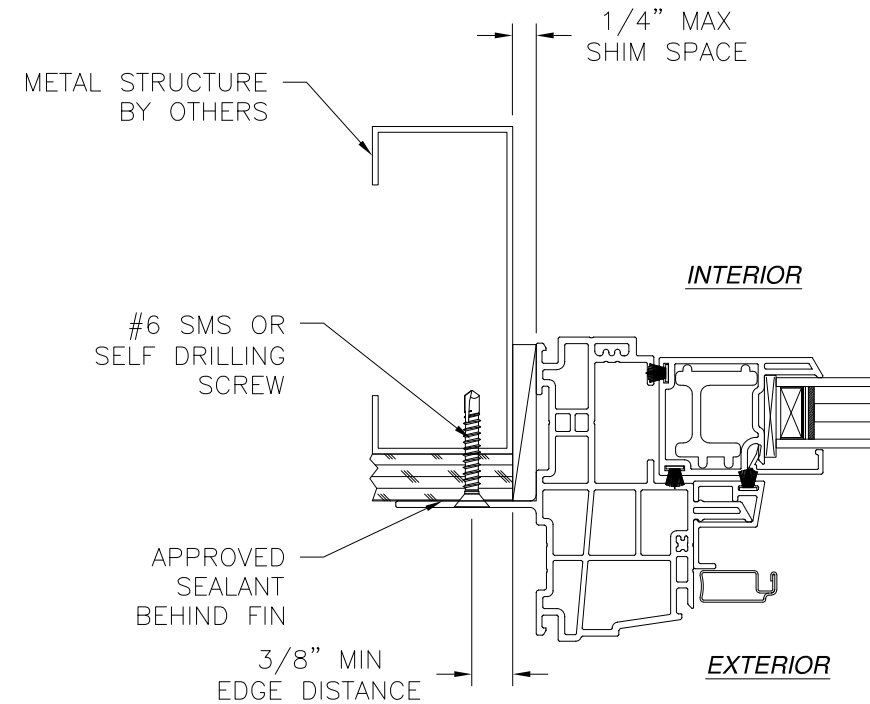
Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

- NOTES:
- INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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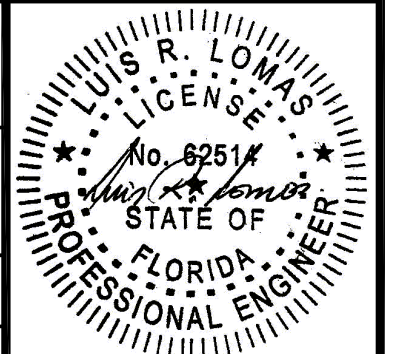
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

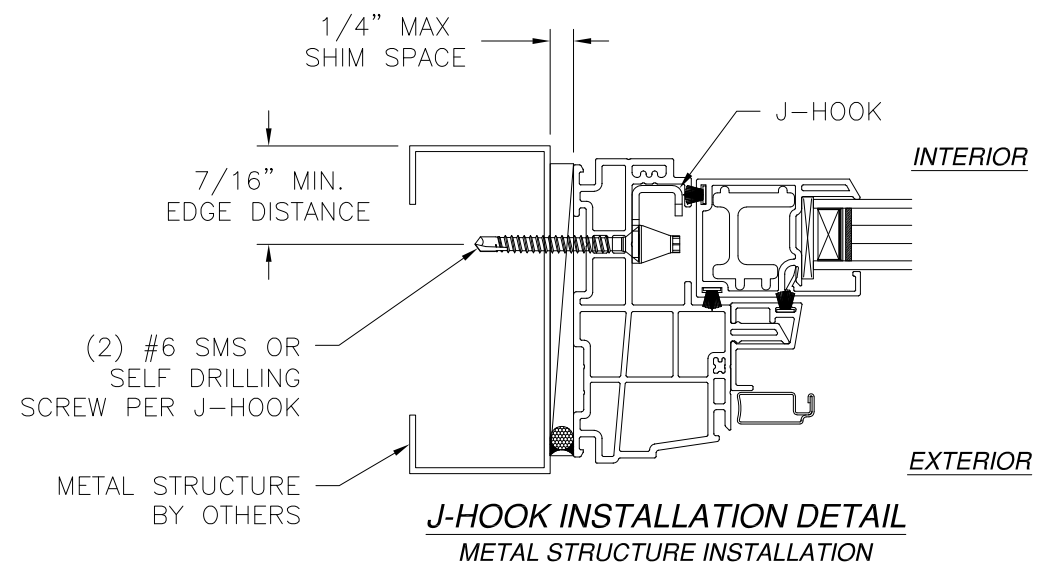
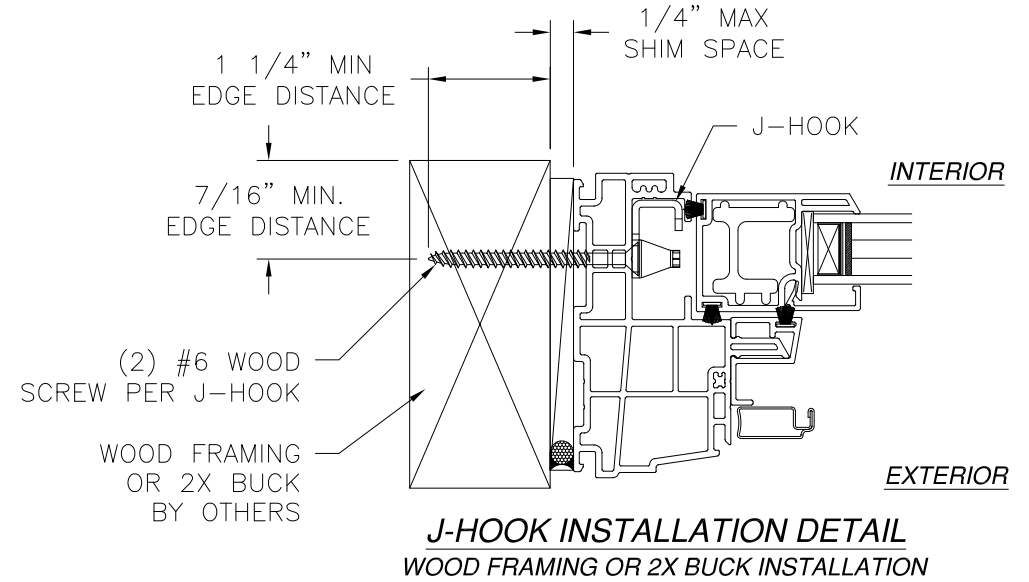
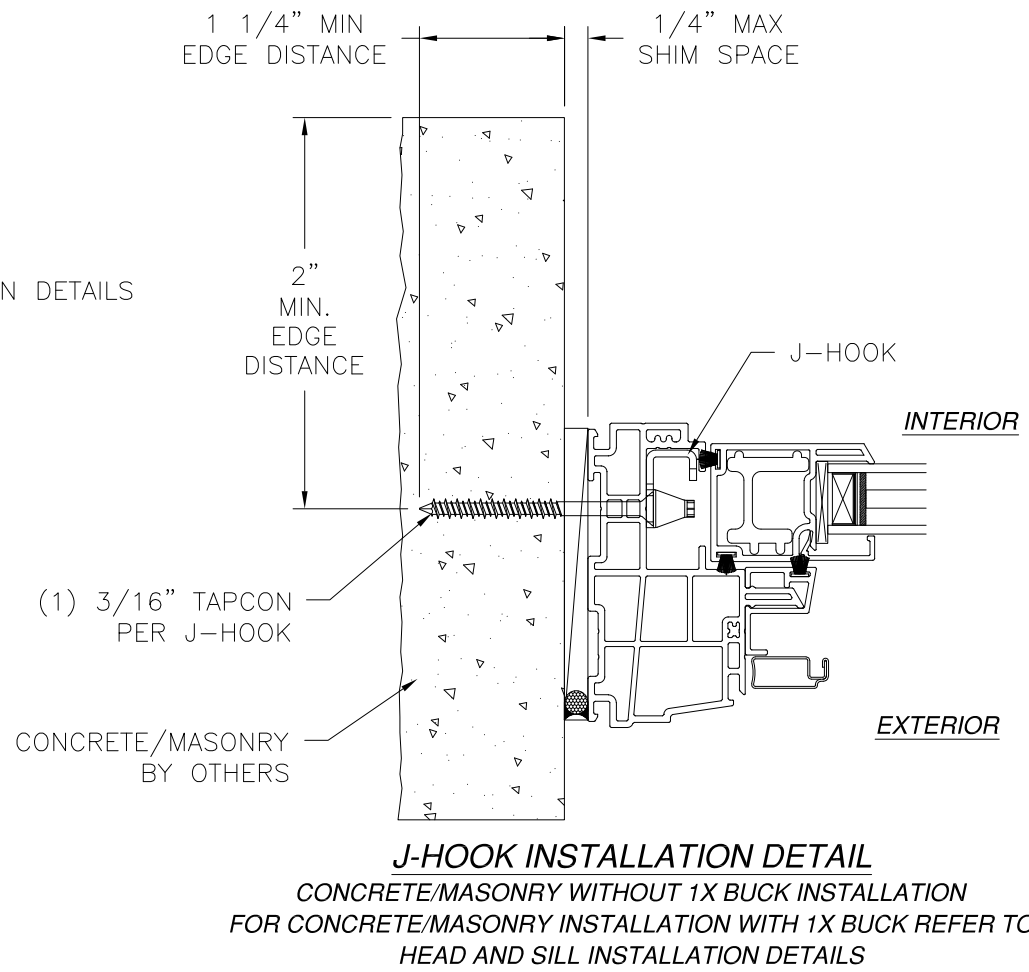
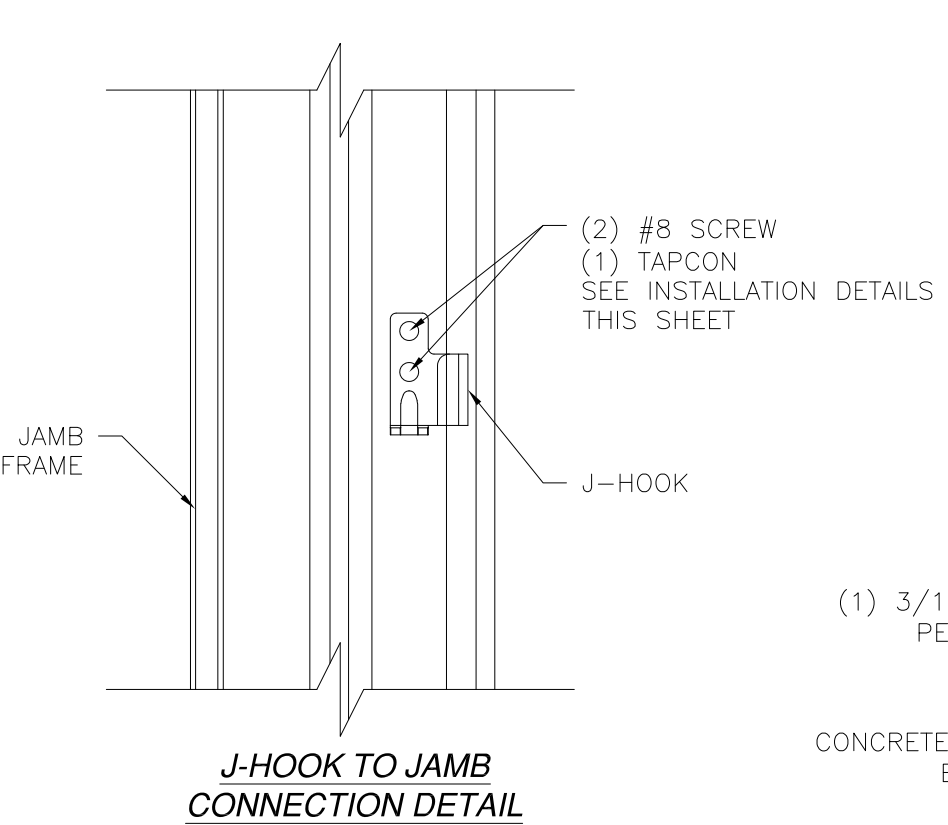
MI WINDOWS & DOORS, LLC 650 WEST MARKET STREET GRATZ, PA 17030-0370		
SERIES 1620/1621 SH REINFORCED NON-IMPACT 47 1/2" X 83 1/2" FIN INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 13 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/29/2024



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.



SIGNED: 08/29/2024

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

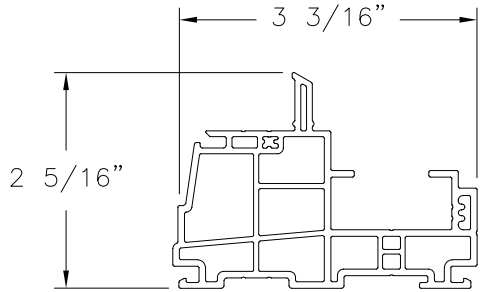
SERIES 1620/1621 SH REINFORCED
NON-IMPACT 47 1/2" X 83 1/2"
J-HOOK INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-02998	REV E
SCALE NTS	DATE 11/30/16	SHEET 14 OF 15

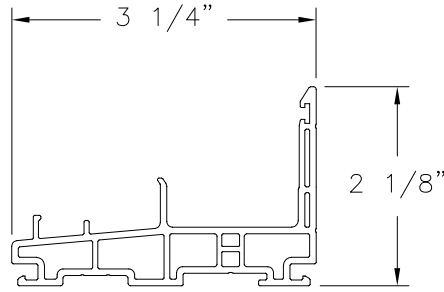
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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

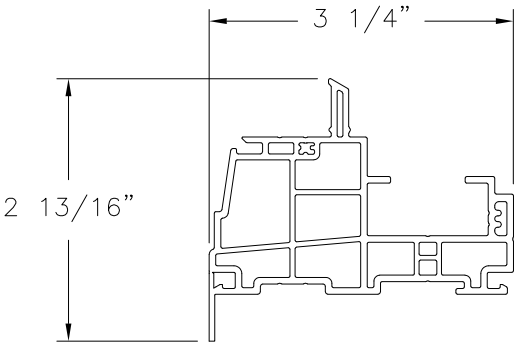
Luis R. Lomas P.E.
FL No.: 62514



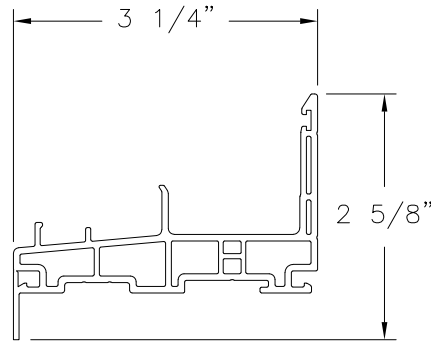
HEAD/JAMB FINLESS
EXTRUDED PVC (V-1008)



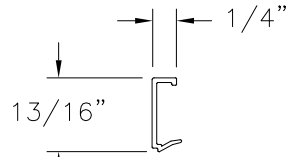
SILL FINLESS
EXTRUDED PVC (V-1013)



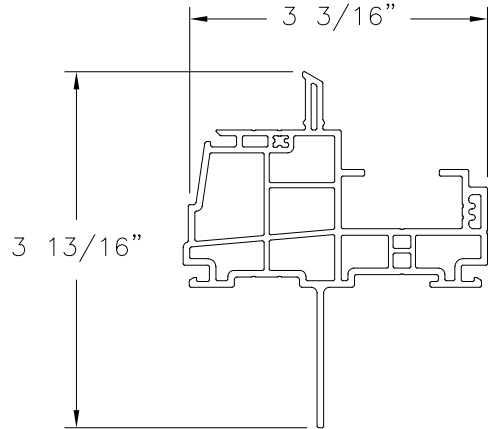
HEAD/JAMB WITH FLANGE
EXTRUDED PVC (VE-000025)



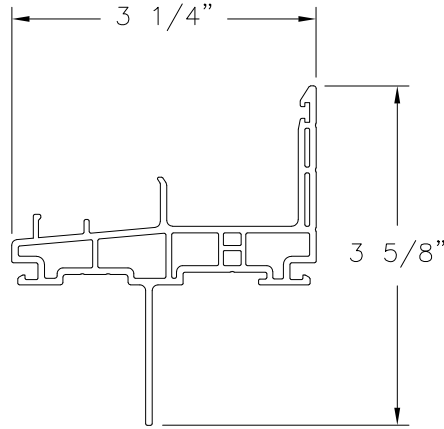
SILL WITH FLANGE
EXTRUDED PVC (VE-000021)



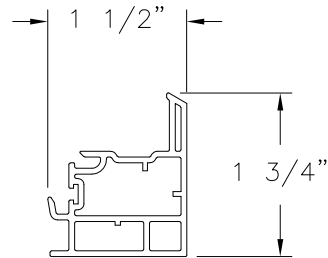
GLAZING BEAD
RIGID PVC (V-904)



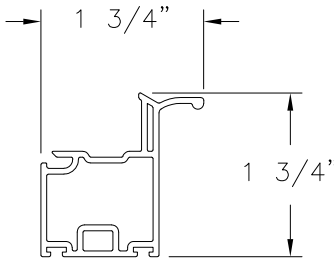
HEAD/JAMB FIN INSTALLATION
EXTRUDED PVC (V-1007)



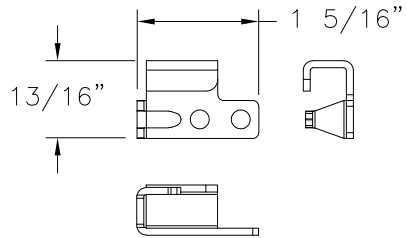
SILL FIN INSTALLATION
EXTRUDED PVC (V-1012)



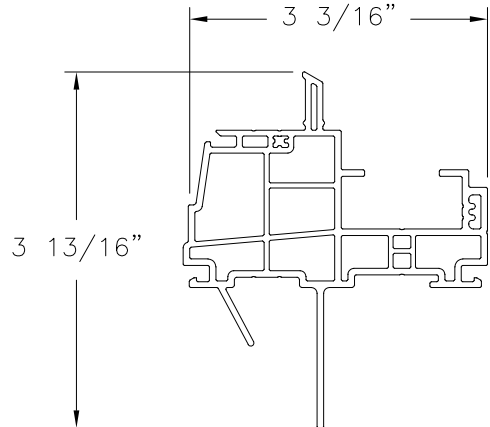
BOTTOM SASH/TOP RAIL
EXTRUDED PVC (V-675)



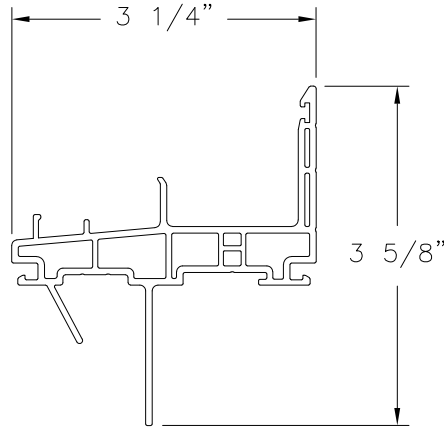
BOTTOM SASH/BOTTOM RAIL
EXTRUDED PVC (V-672)



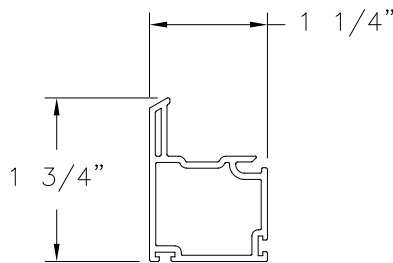
J-HOOK



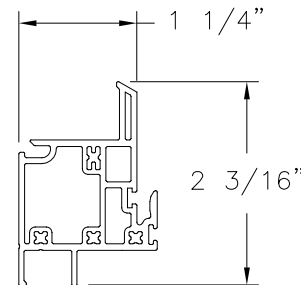
**HEAD/JAMB FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1006)



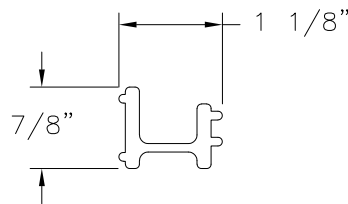
**SILL FIN INSTALLATION
WITH J-CHANNEL**
EXTRUDED PVC (V-1011)



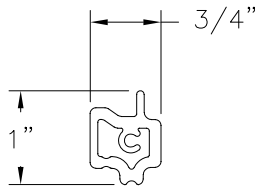
BOTTOM SASH/STILE
EXTRUDED PVC (V-670)



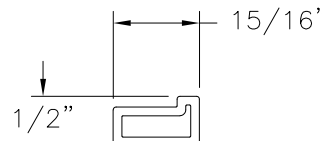
MEETING RAIL
EXTRUDED PVC (V-1016)



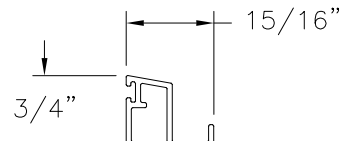
**STILES
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2266)



**MEETING RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (AE-000162)



**LOCK RAIL
REINFORCEMENT**
ALUMINUM 6063-T5 (M-2115)



**OPERABLE SCREEN
TRACK W/O LEG**
ALUMINUM 6063-T5 (M-2341)

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
E	REVISED TO MODIFY PRODUCT'S NAME	08/29/2024	R.L.

MI WINDOWS & DOORS, LLC
650 WEST MARKET STREET
GRATZ, PA 17030-0370

SERIES 1620/1621 SH REINFORCED
NON-IMPACT 47 1/2" X 83 1/2"
COMPONENTS

DRAWN:
R.L.

DWG NO.
08-02998

REV
E

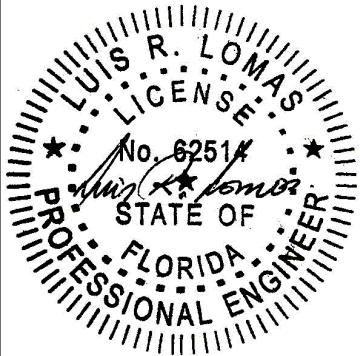
SCALE NTS

DATE 11/30/16

SHEET 15 OF 15

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/29/2024



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