

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 IBC AND THE 2006 IRC WITH STATE OF TEXAS MODIFICATIONS AND WITH THE 2009 IBC, 2009 IRC, 2012 IBC, 2012 IRC, 2015 IBC AND 2015 IRC.
- 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.
- 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 Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: EXTRUDED ALUMINUM 6063-T5.
- UNITS MUST BE GLAZED PER ASTM E1300-04/09.
- 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 #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.
- FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 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.
- FOR ANCHORING THROUGH FRAME 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.
- 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.
- FOR ANCHORING THROUGH FRAME 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.
- 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 2,000 PSI.
  - MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
  - METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM

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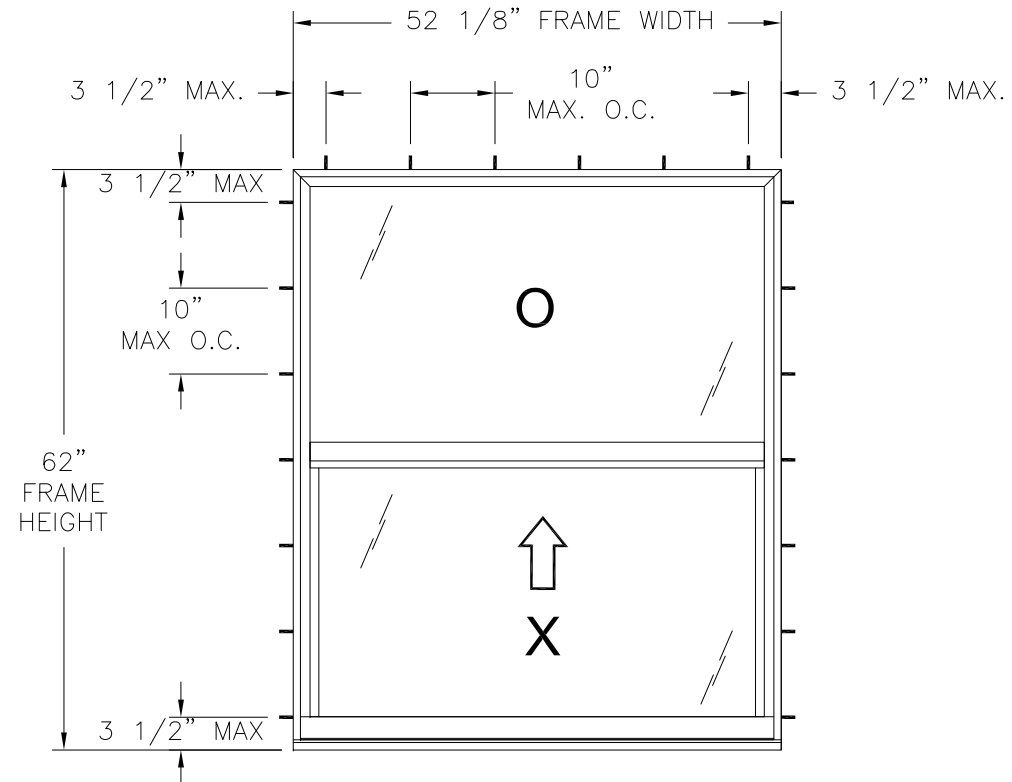
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10	COMPONENTS

MI WINDOW AND DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW NON-IMPACT 52" X 62" NOTES		
DRAWN: A.R.	DWG NO. 08-03392	REV -
SCALE NTS	DATE 03/12/19	SHEET 1 OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

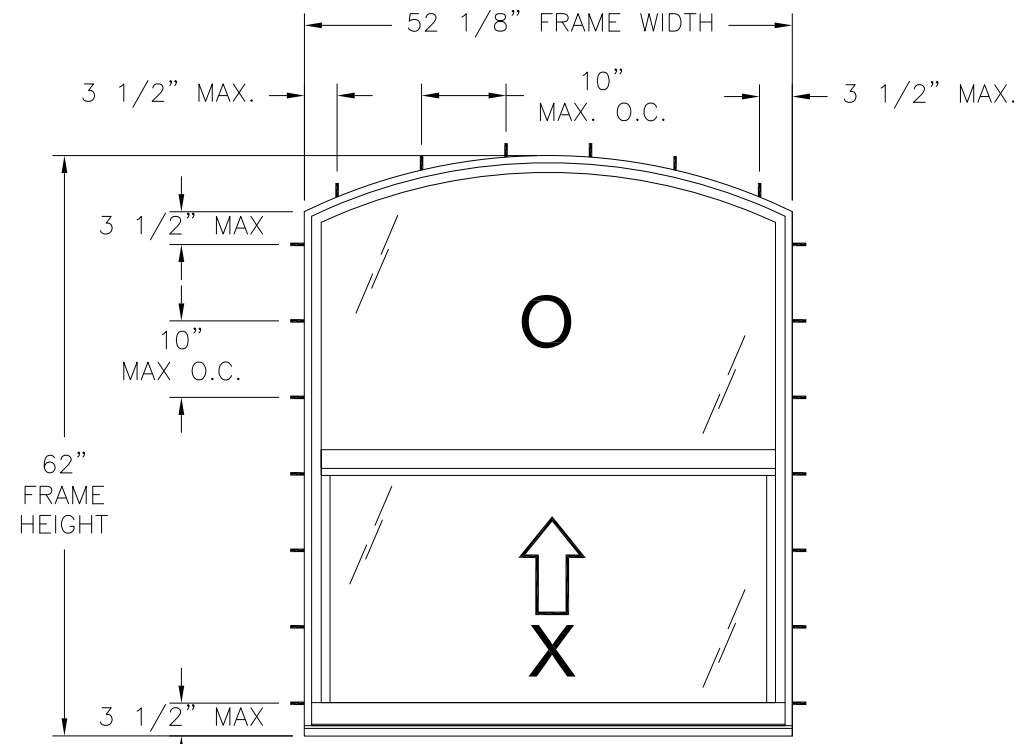


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**185 ALUMINUM SINGLE HUNG WINDOW**  
EXTERIOR VIEW  
FLANGE & FINLESS INSTALLATION



**185 ALUMINUM SINGLE HUNG WINDOW DESIGNER**  
EXTERIOR VIEW  
FLANGE & FINLESS INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-63.0PSF	NONE

52 1/8" X 62" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS FRAME AREA DOES NOT EXCEED 22.44 FT<sup>2</sup>

- NOTES:  
 1. SASH SIZE: 50 1/2" X 31 3/16"  
 2. D.L.O.: 49 5/16" X 27 9/16"

HARDWARE SCHEDULE	
A.	(1) MULTI-POINT LOCK WITH KEEPERS WITH HANDLE AT CENTER OF VENT BOTTOM RAIL
B.	(3) LOCK BUTTONS AT LOCK SLIDE BAR

MI WINDOW AND DOORS, LLC.  
 650 WEST MARKET STREET  
 GRATZ, PA 17030

SERIES 185 ALUMINUM SINGLE HUNG WINDOW  
 NON-IMPACT 52" X 62"  
 FLANGE & FINLESS ELEVATIONS

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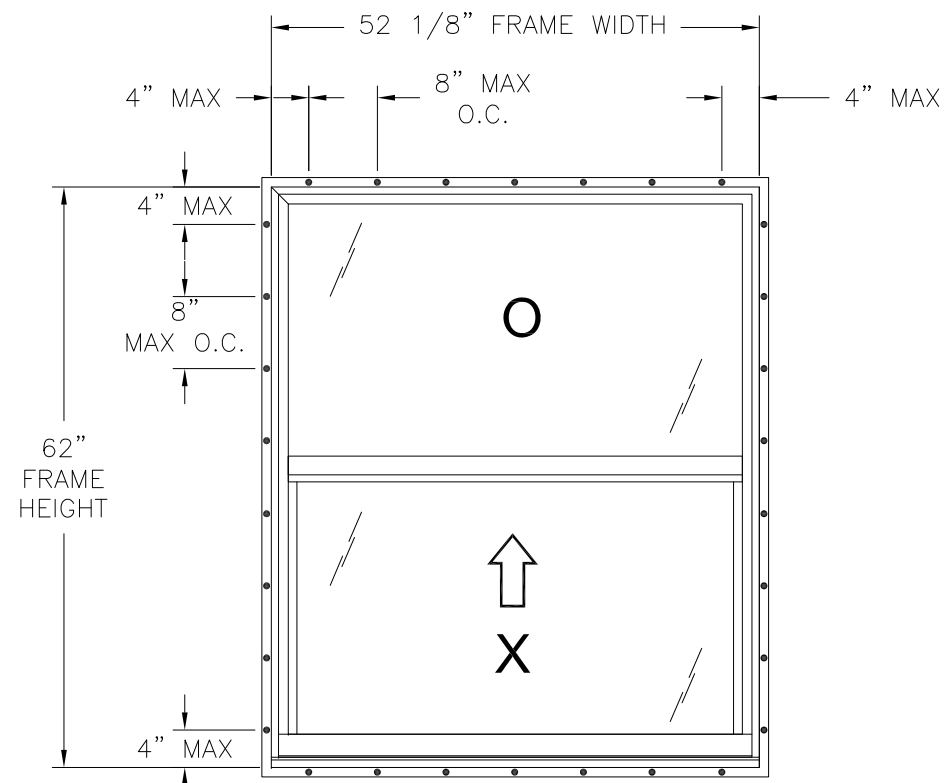
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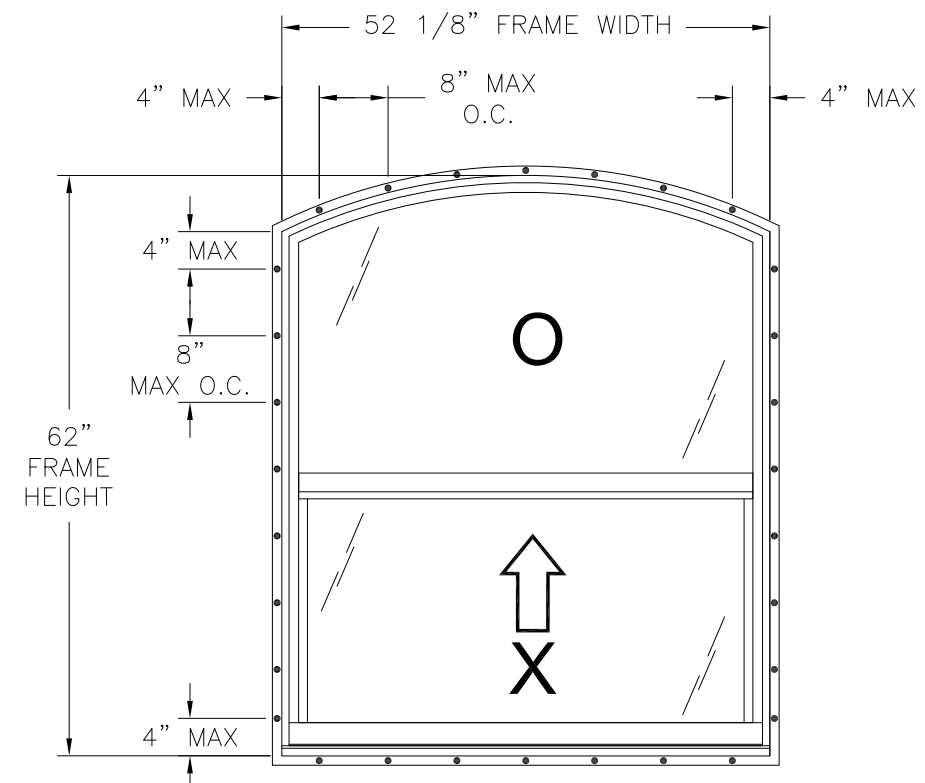


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**185 ALUMINUM SINGLE HUNG WINDOW**  
EXTERIOR VIEW  
FIN INSTALLATION



**185 ALUMINUM SINGLE HUNG WINDOW DESIGNER**  
EXTERIOR VIEW  
FIN INSTALLATION

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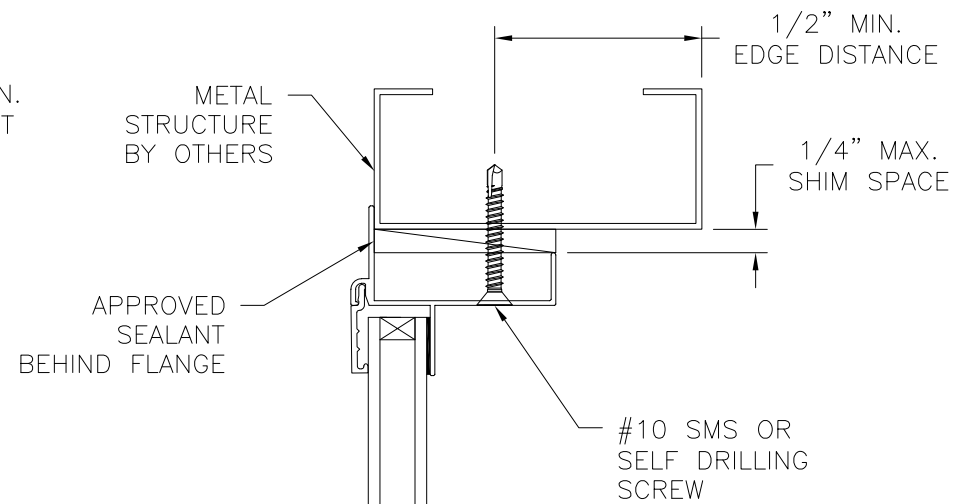
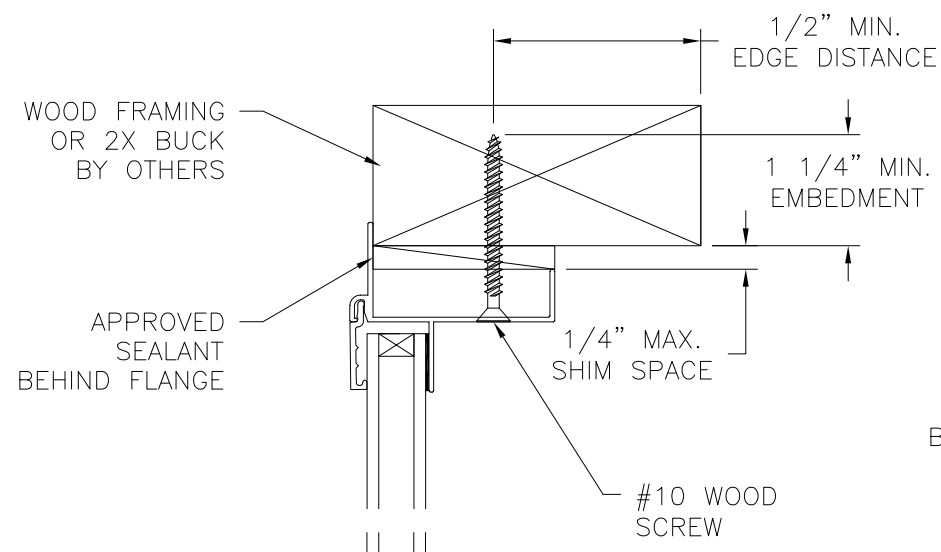
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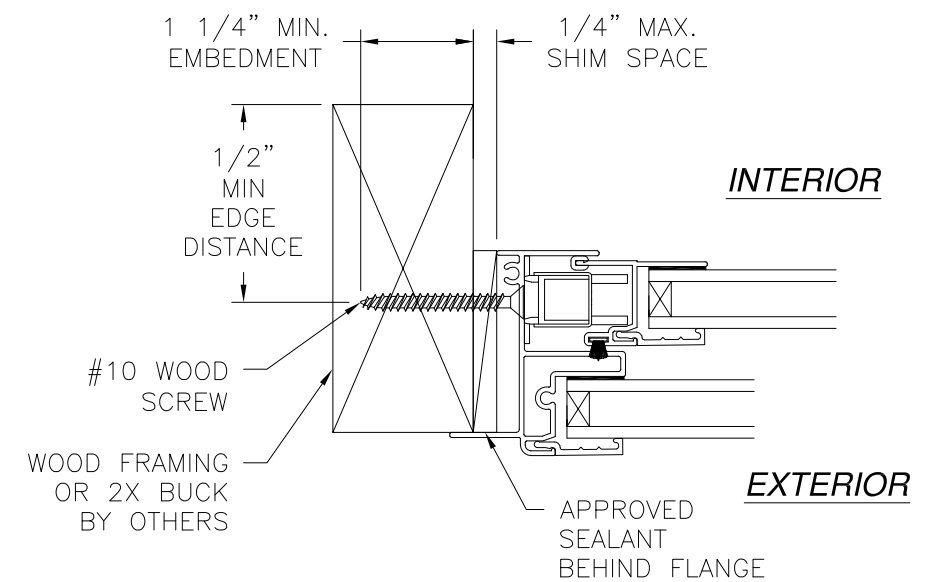
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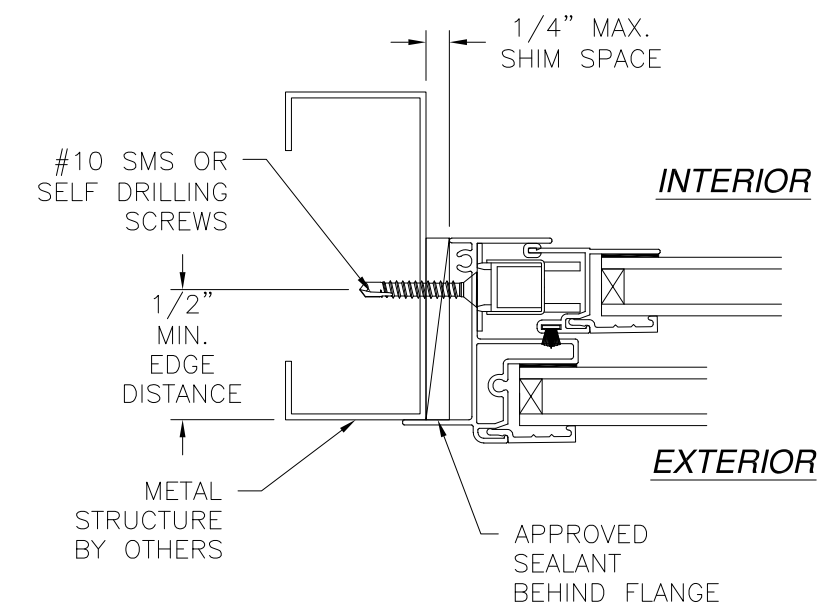
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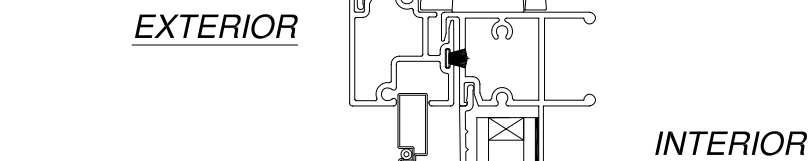


**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

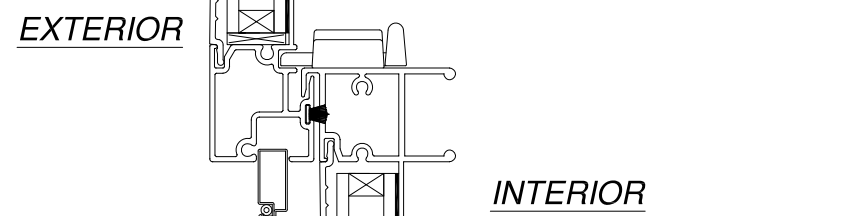


**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

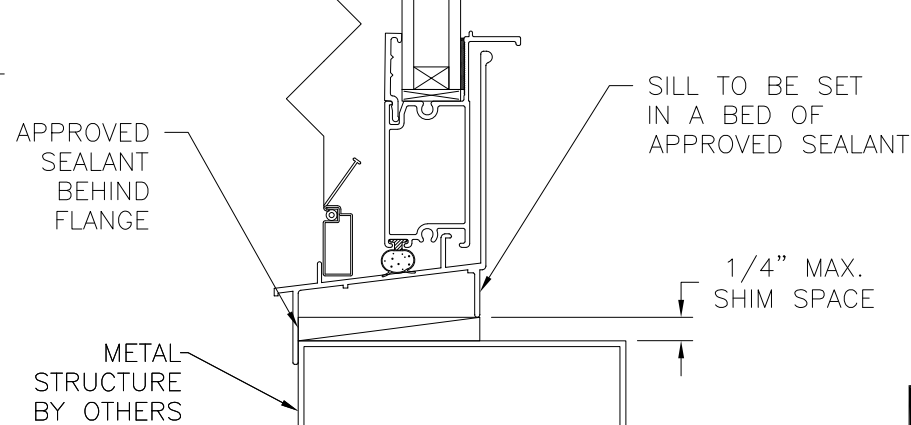
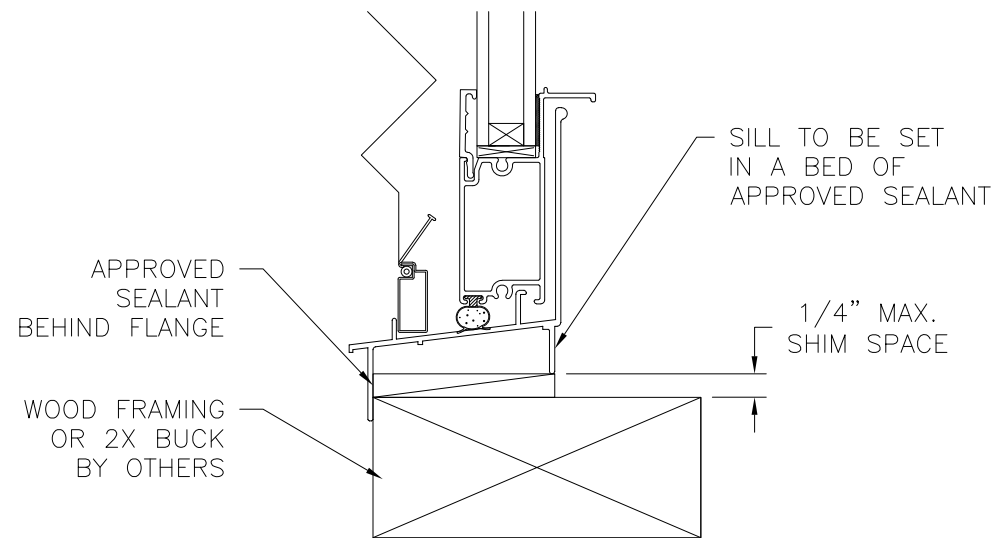
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**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION



**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



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

MI WINDOW AND DOORS, LLC.  
650 WEST MARKET STREET  
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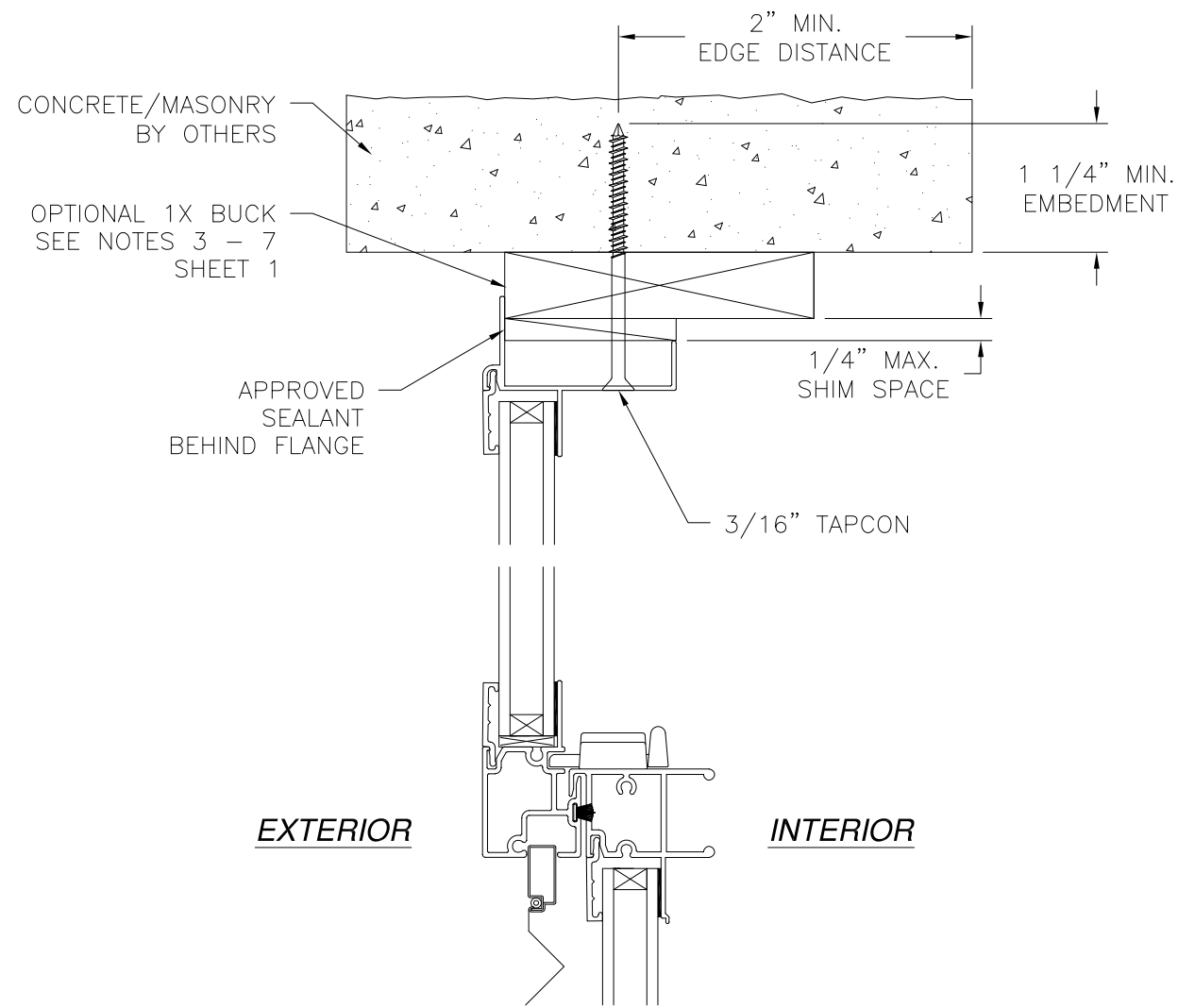
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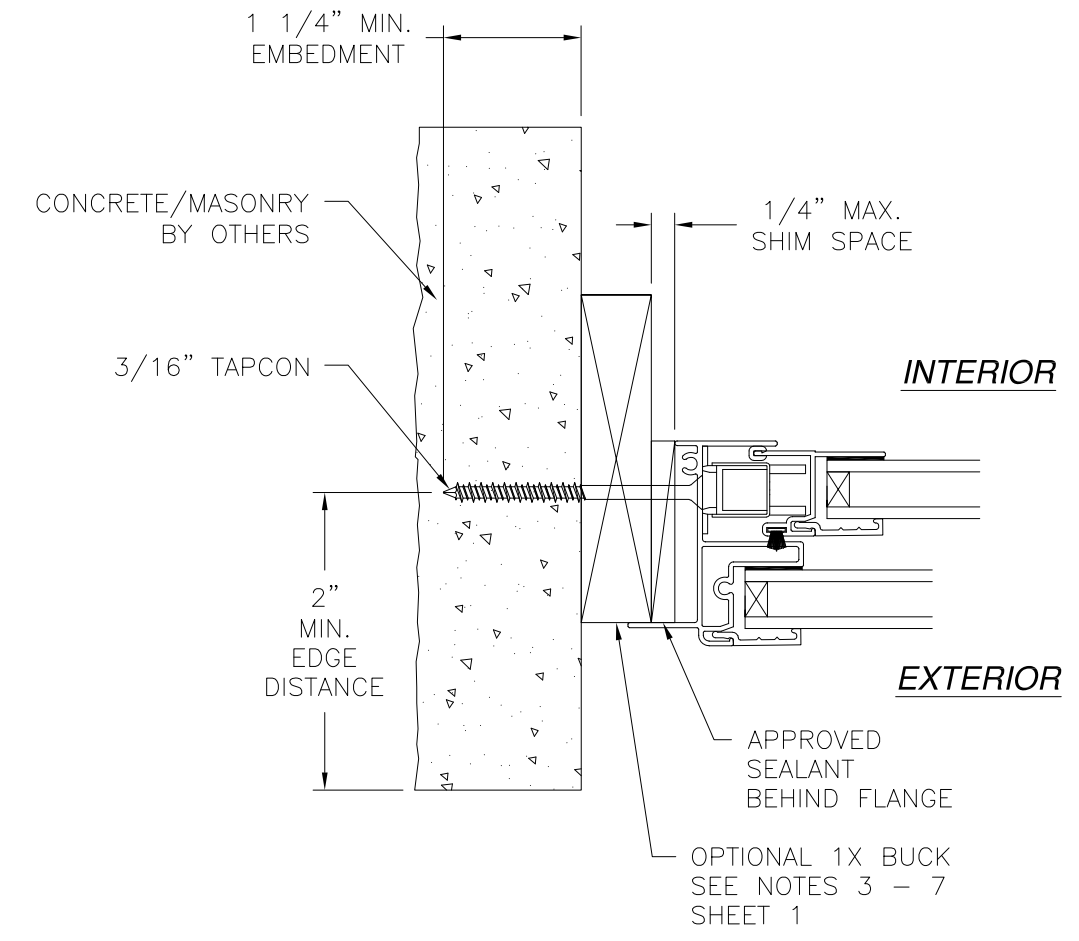


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**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION



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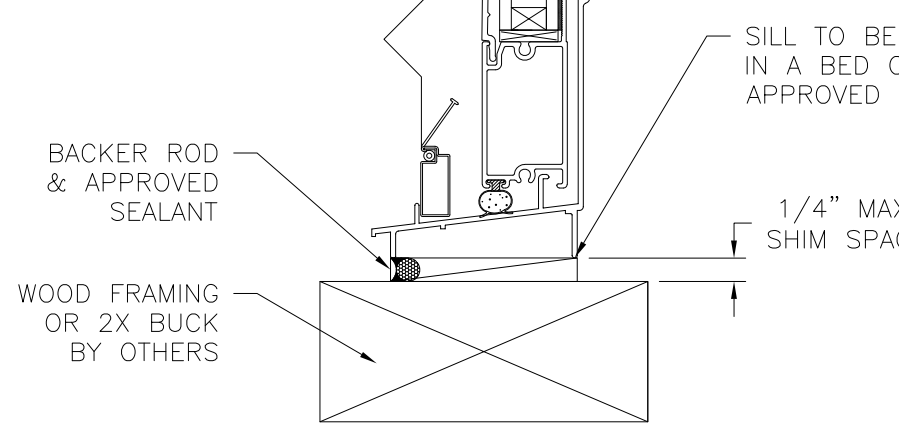
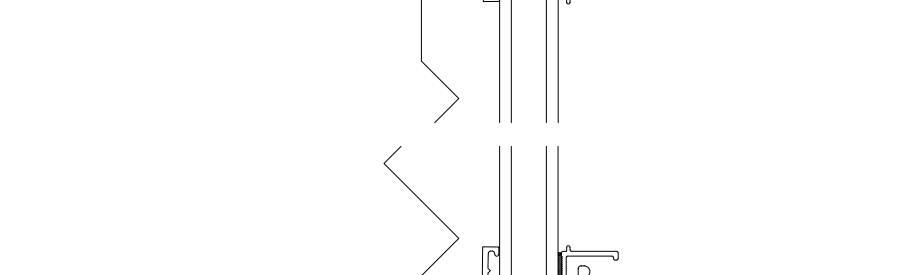
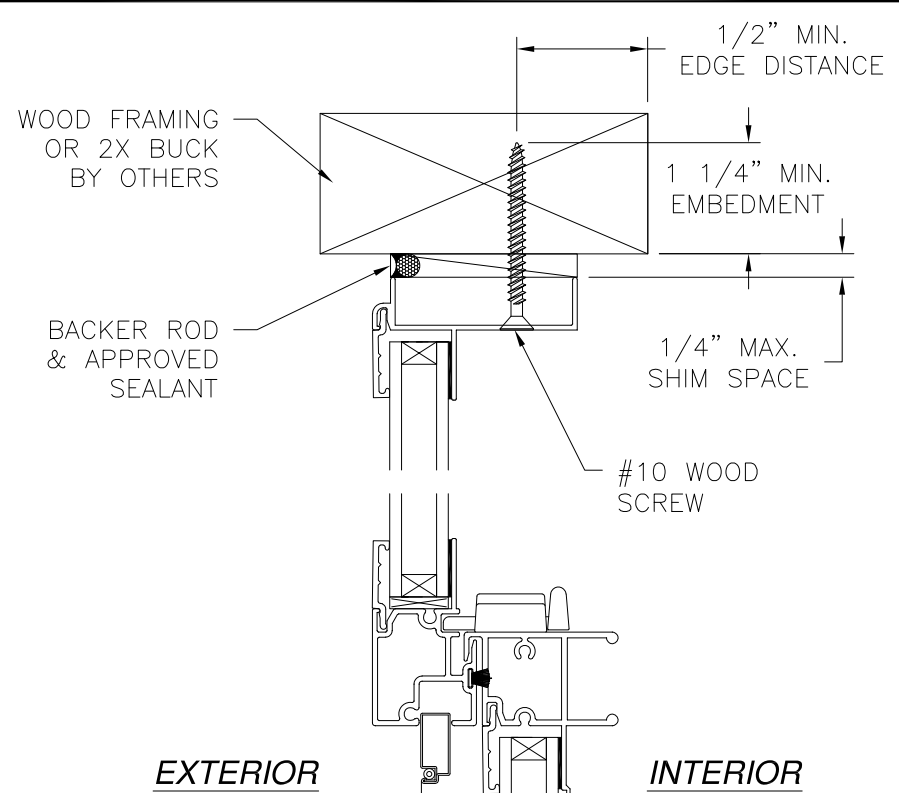
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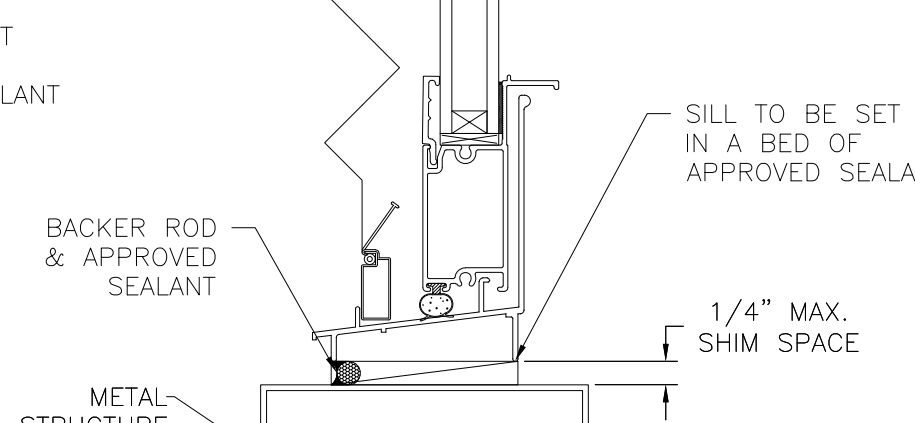
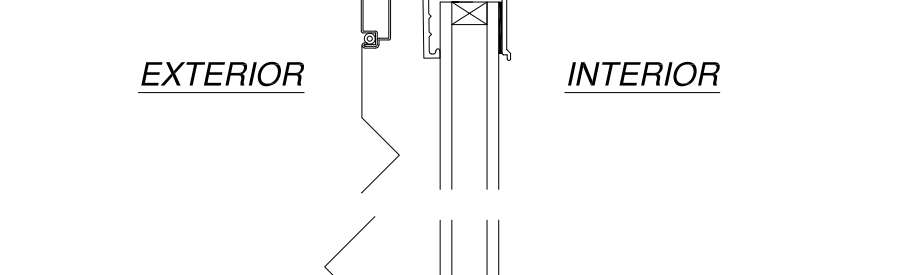
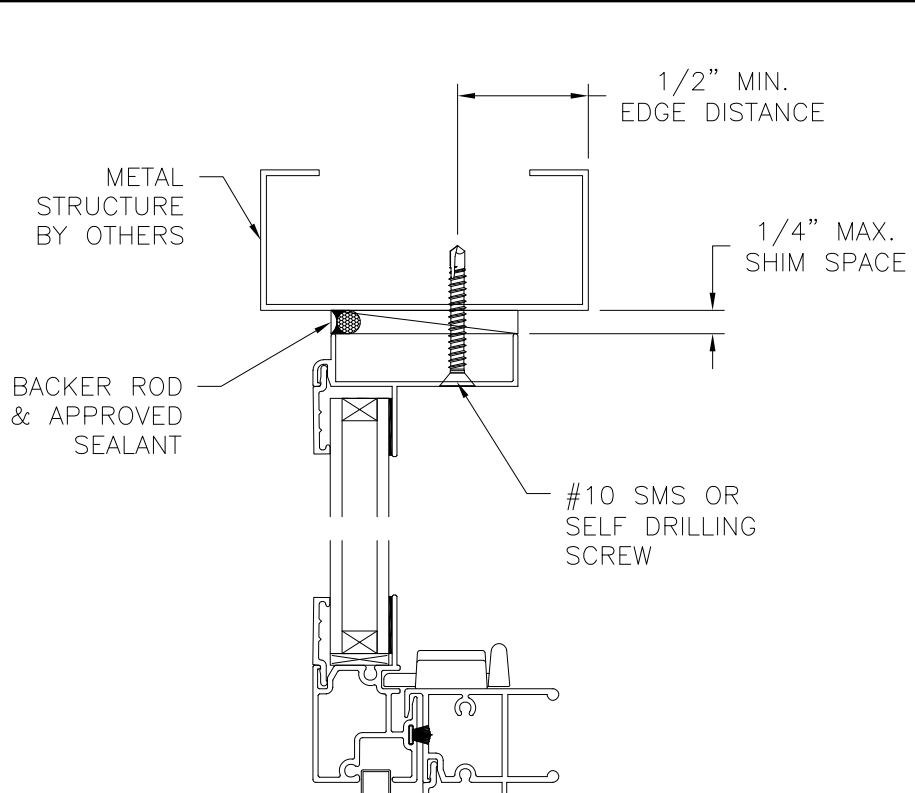
MI WINDOW AND DOORS, LLC. 650 WEST MARKET STREET GRATZ, PA 17030		
SERIES 185 ALUMINUM SINGLE HUNG WINDOW NON-IMPACT 52" X 62" FLANGE INSTALLATION DETAILS		
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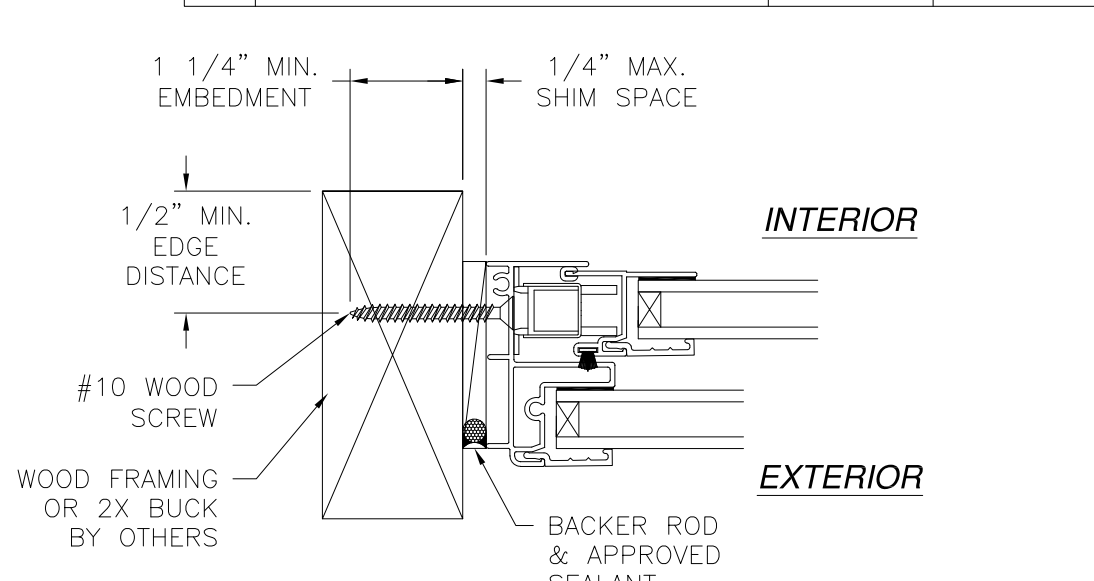


**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION

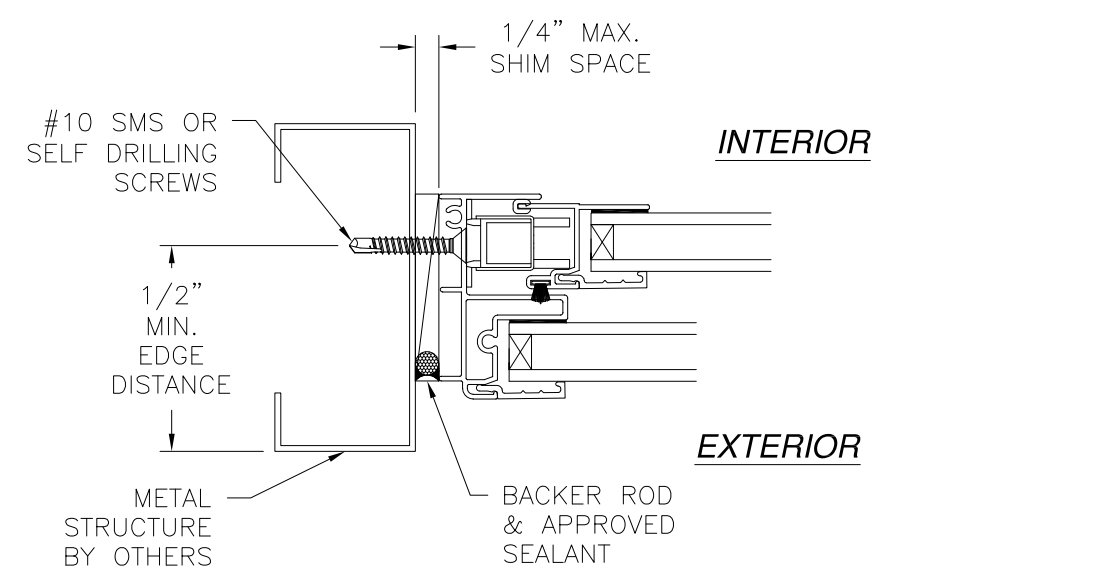


**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION

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



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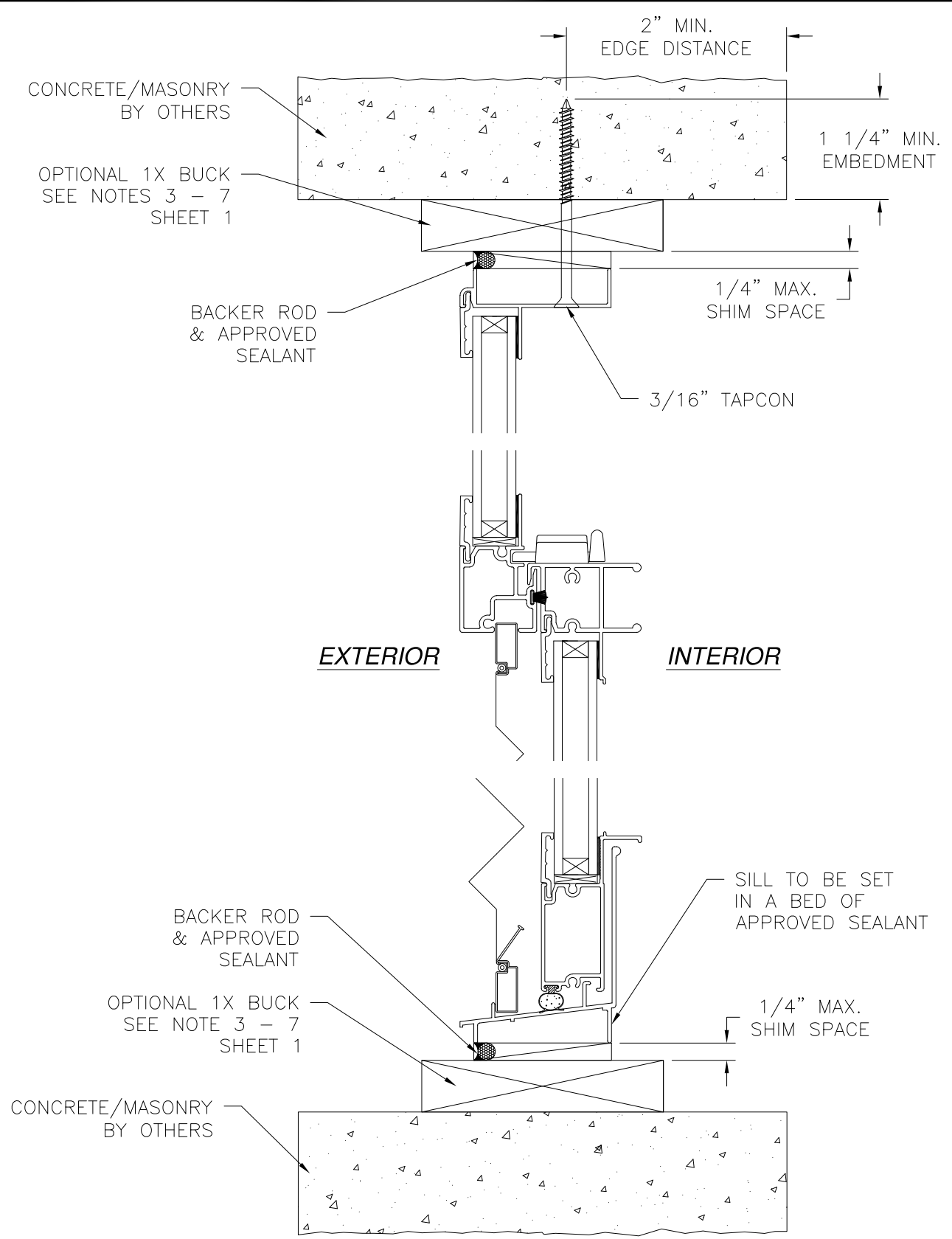
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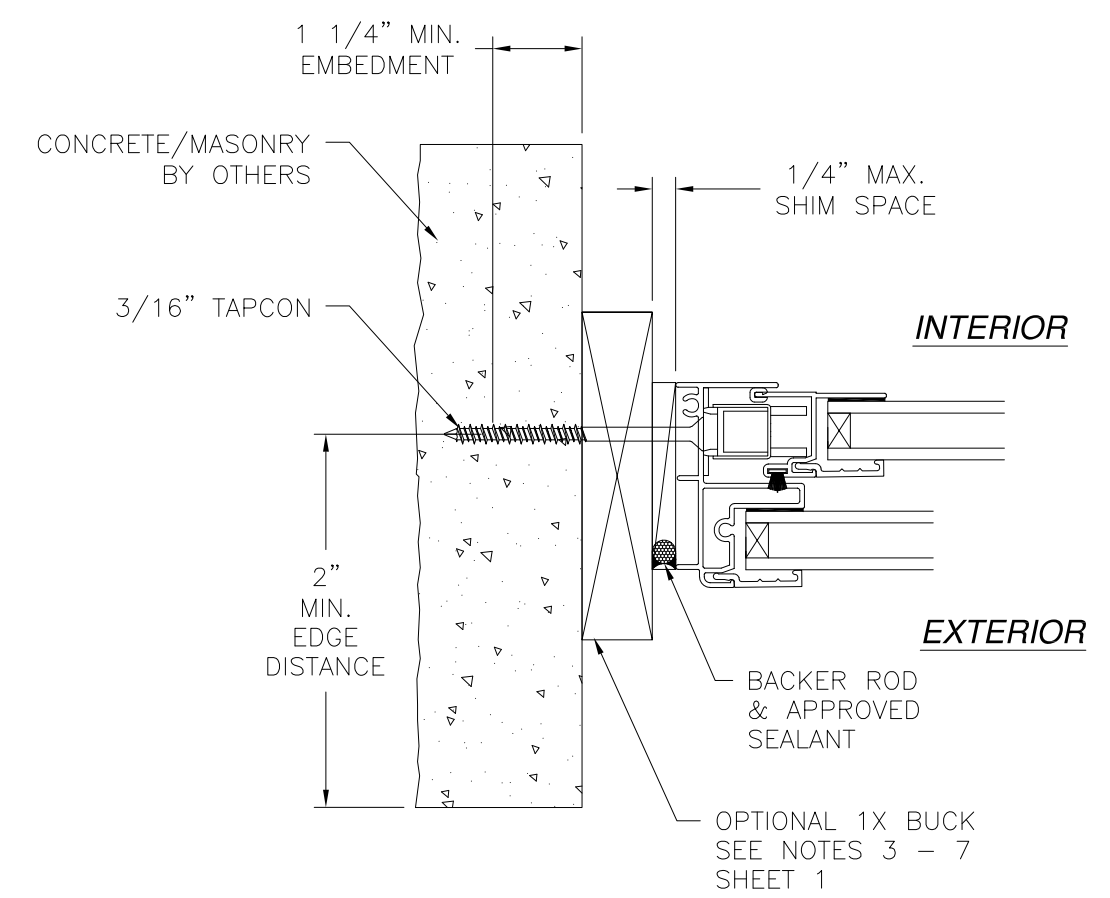


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**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION

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**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION

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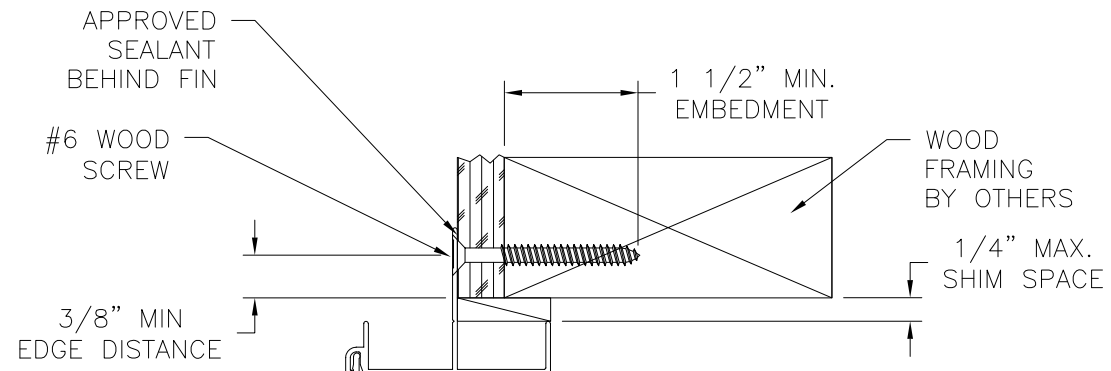
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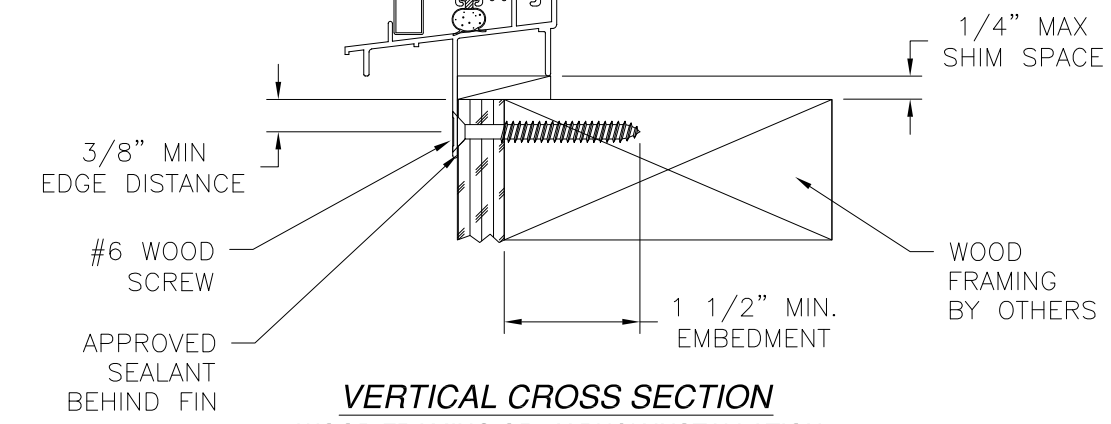
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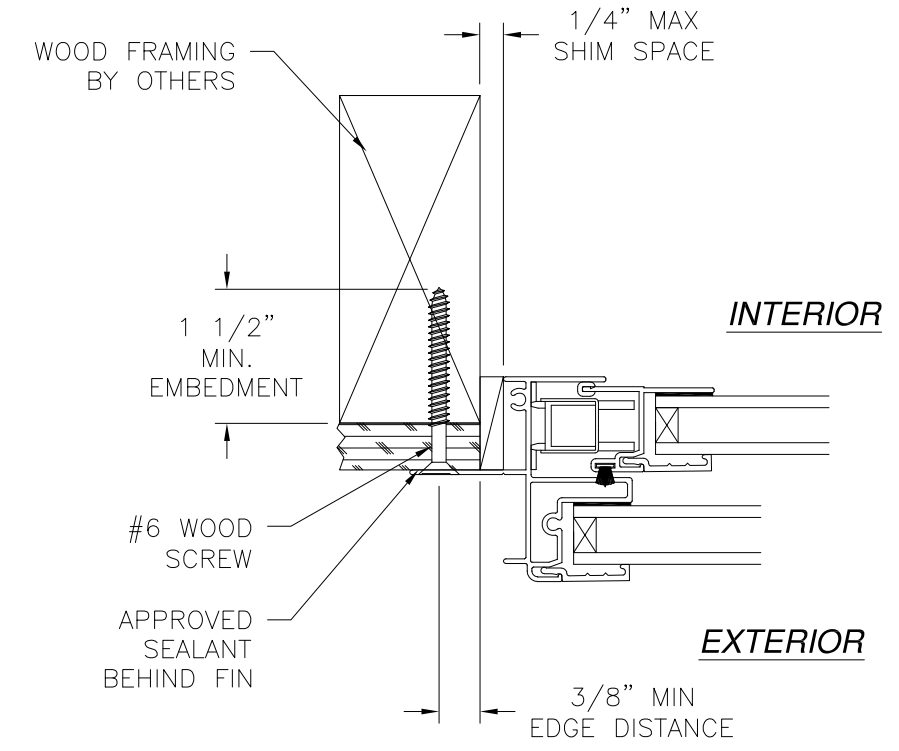


**EXTERIOR**

**INTERIOR**



**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION



**JAMB INSTALLATION DETAIL**  
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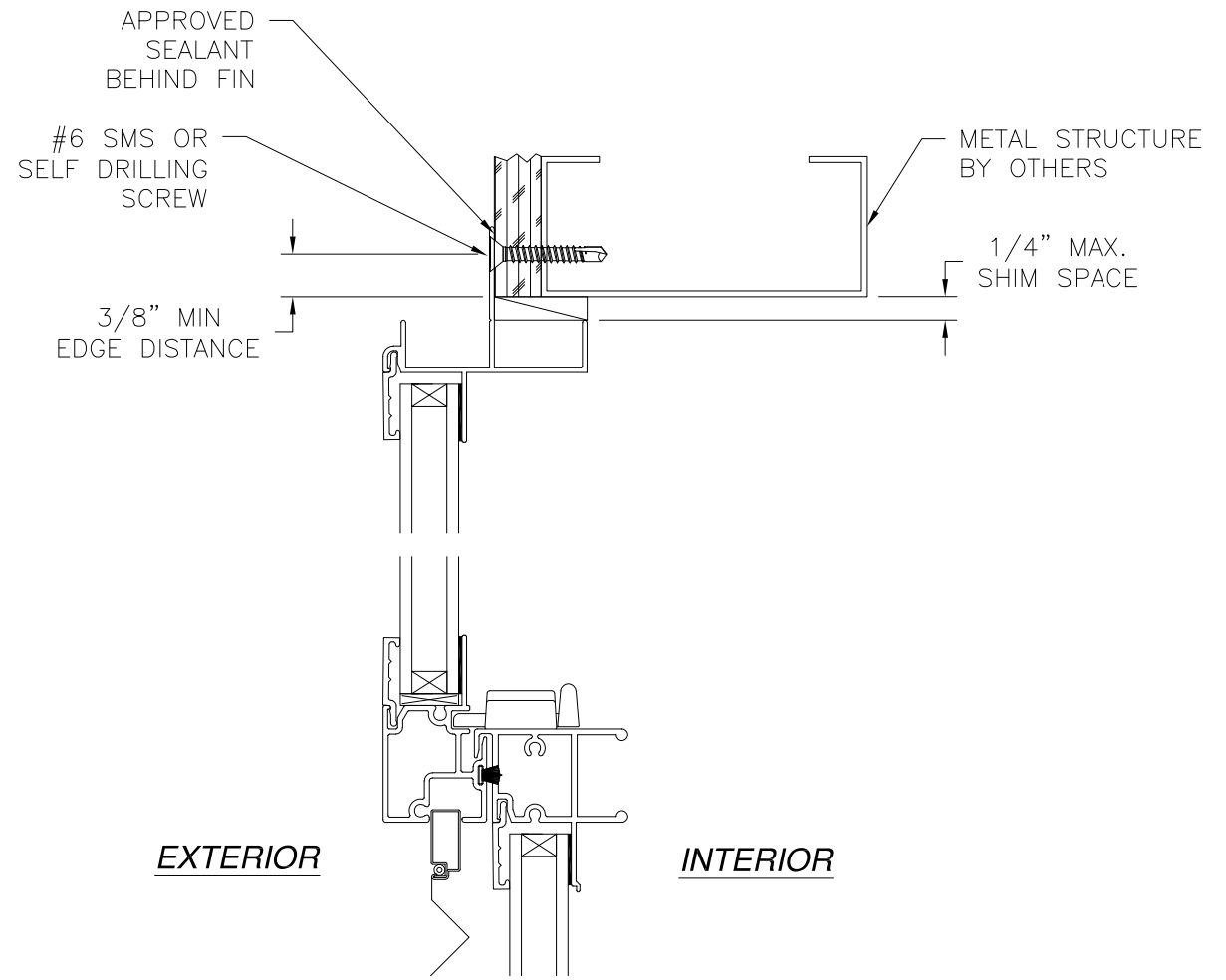
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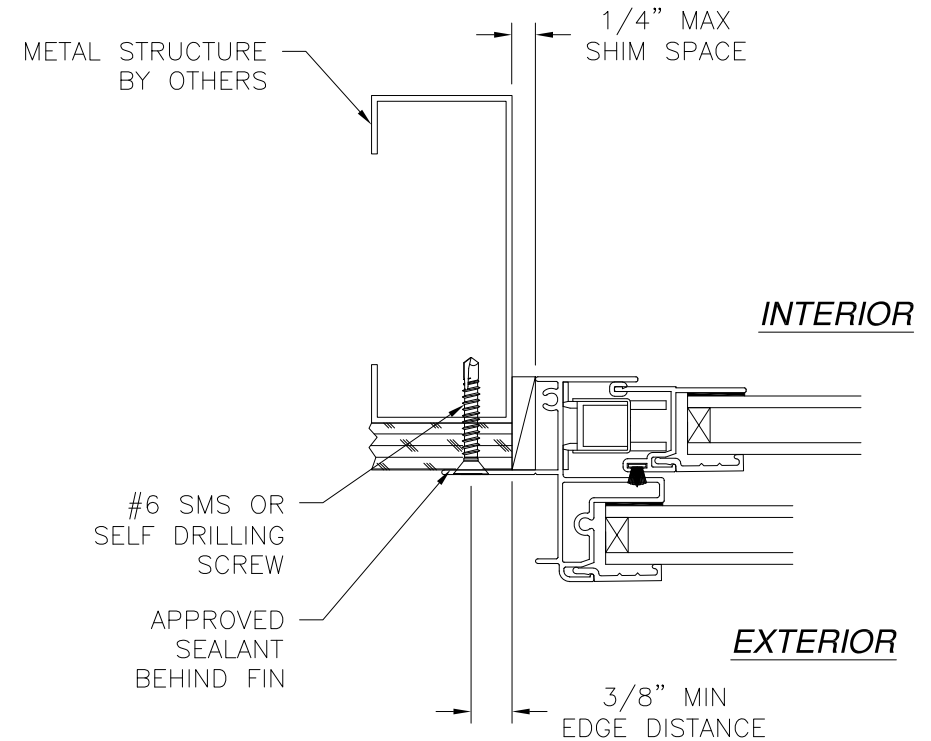
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**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION



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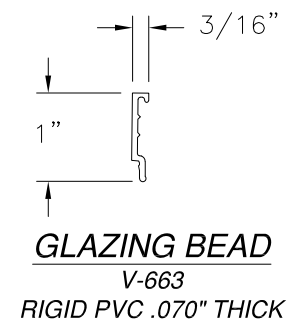
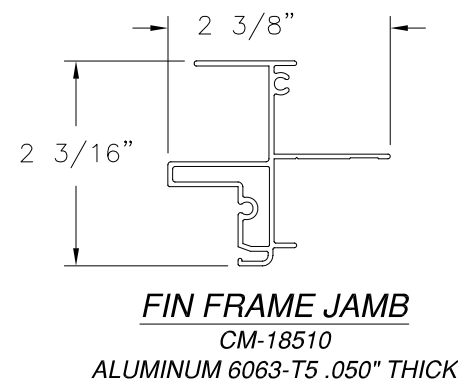
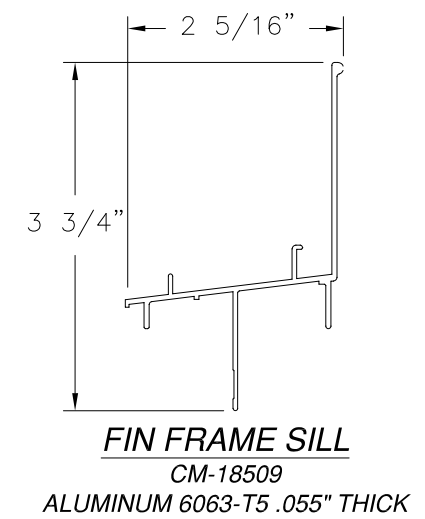
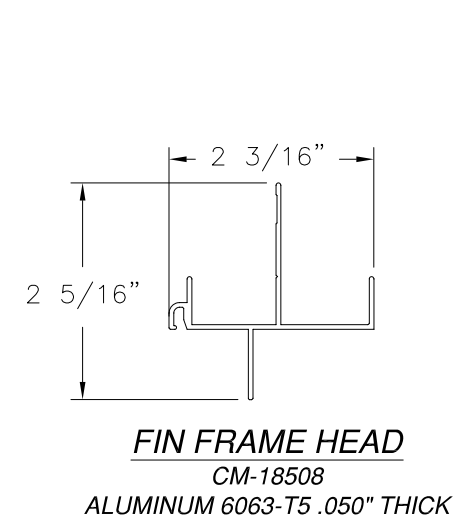
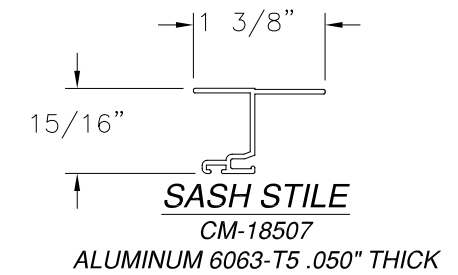
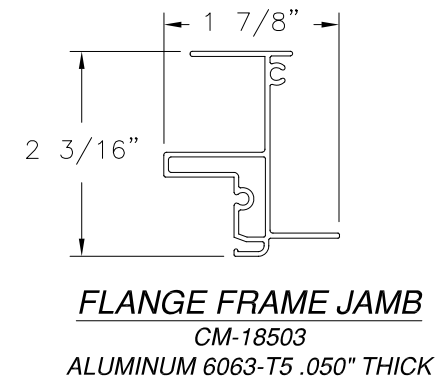
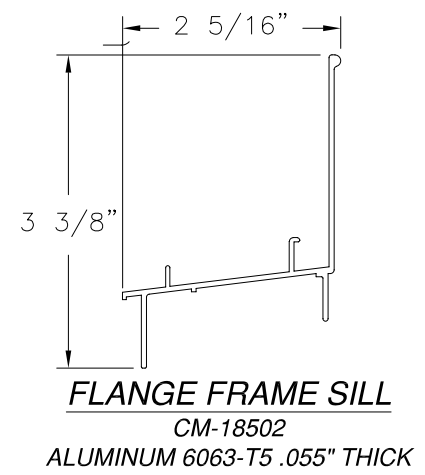
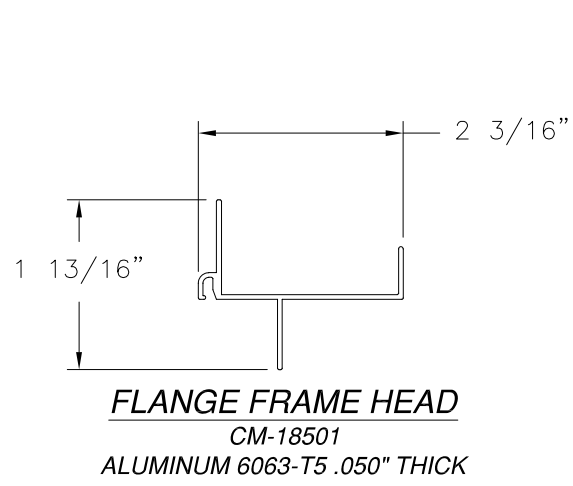
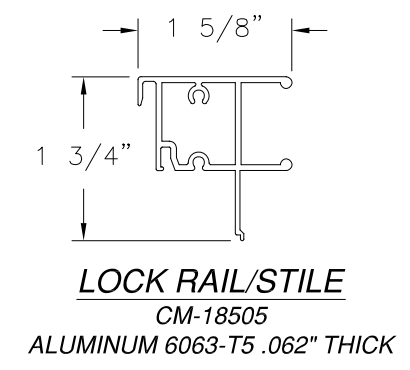
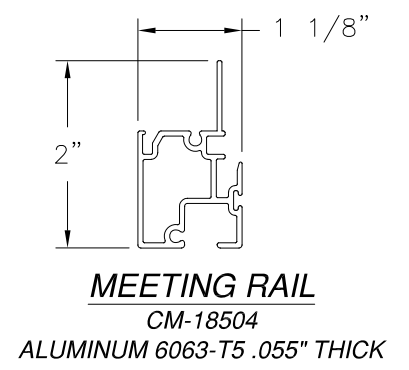
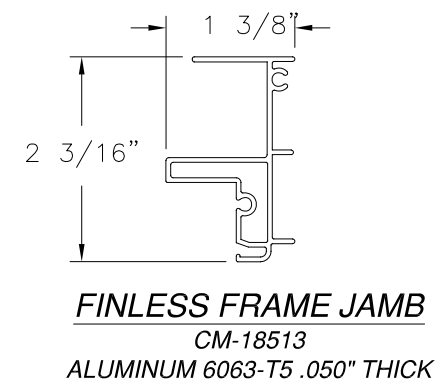
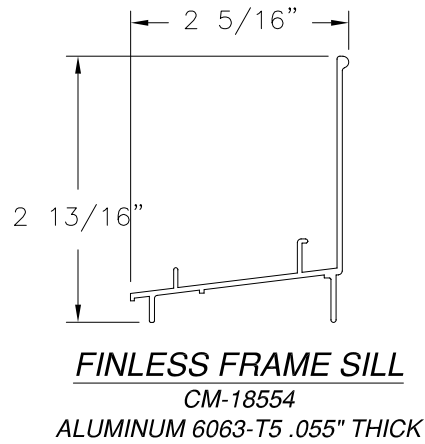
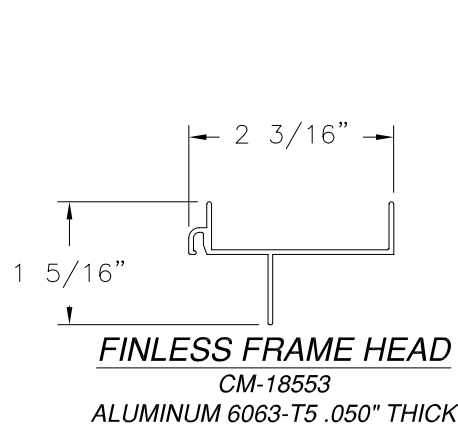
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SCALE NTS	DATE 03/12/19	SHEET 9 OF 10
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



Luis R. Lomas P.E.  
TX No.: 101889

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SIGNED: 03/12/2019

MI WINDOW AND DOORS, LLC.  
650 WEST MARKET STREET  
GRATZ, PA 17030

SERIES 185 ALUMINUM SINGLE HUNG WINDOW  
NON-IMPACT 52" X 62"  
COMPONENTS

DRAWN: A.R.	DWG NO. 08-03392	REV -
SCALE NTS	DATE 03/12/19	SHEET 10 OF 10

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