

| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 02/10/2026 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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. 2X BUCK OVER MASONRY/CONCRETE TO BE PROPERLY SECURED TO BUILDING STRUCTURE. DESIGN AND ANCHORING OF 2X BUCK IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. MEETING JAMB AND JAMB EXTENSION MATERIAL: WOOD SPECIFIC GRAVITY G=0.59 MINIMUM (INCLUDES BUT IS NOT LIMITED TO: LARCH, SIPO, MERANTI, MAHOGANY, WHITE OAK, WALNUT)
6. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
7. DESIGN PRESSURE AND INSTALLATION DETAILS SHOWN IN THIS DOCUMENT APPLY ONLY TO MULLION. WINDOWS MUST BE APPROVED UNDER SEPARATE APPROVAL.
8. WINDOWS OR DOORS TO BE MULLED ARE NOT LIMITED TO THOSE SHOWN IN THIS DRAWING. WINDOWS MUST BE MANUFACTURED BY BILDAU & BUSSMANN GMBH.
9. DESIGN PRESSURE OF MULLED UNIT SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE MULLION OR THE INDIVIDUAL WINDOW OR DOOR UNIT.
10. UNITS MAY BE MULLED TOGETHER INDEFINITELY AS LONG AS SINGLE UNIT WIDTH AND HEIGHT ARE NOT EXCEEDED AND MULLION IS ANCHORED AS SHOWN HEREIN.

ANCHORING NOTES:

1. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH INSTALLATION CLIP USE #12 WOOD SCREW WITH SUFFICIENT LENGTH TO ACHIEVE A 2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
2. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH FRAME USE #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
3. FOR ATTACHING INTO METAL STRUCTURE USE #12 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE SCREWS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
4. ALL FASTENERS TO BE CORROSION RESISTANT.
5. 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. METAL STRUCTURE: STEEL 16GA, 33KSI OR ALUMINUM 6063-T5 1/8” THICK MINIMUM

SIGNED: 02/11/2026

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BILDAU & BUSSMANN GMBH

GERICHTSTRASSE 23  
DE 13347 BERLIN, GERMANY

SINGLE TIMBER INTEGRAL VERTICAL MULLION

IMPACT 90” SPAN

NOTES

DRAWN:

R.L.

DWG NO.

08-01858A

REV

A

SCALE

NTS

DATE

12/27/12

SHEET

1

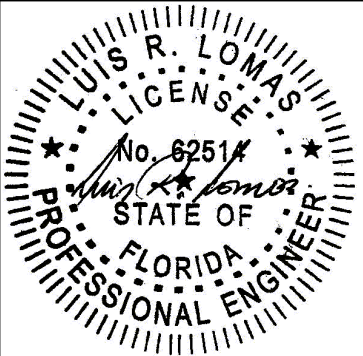
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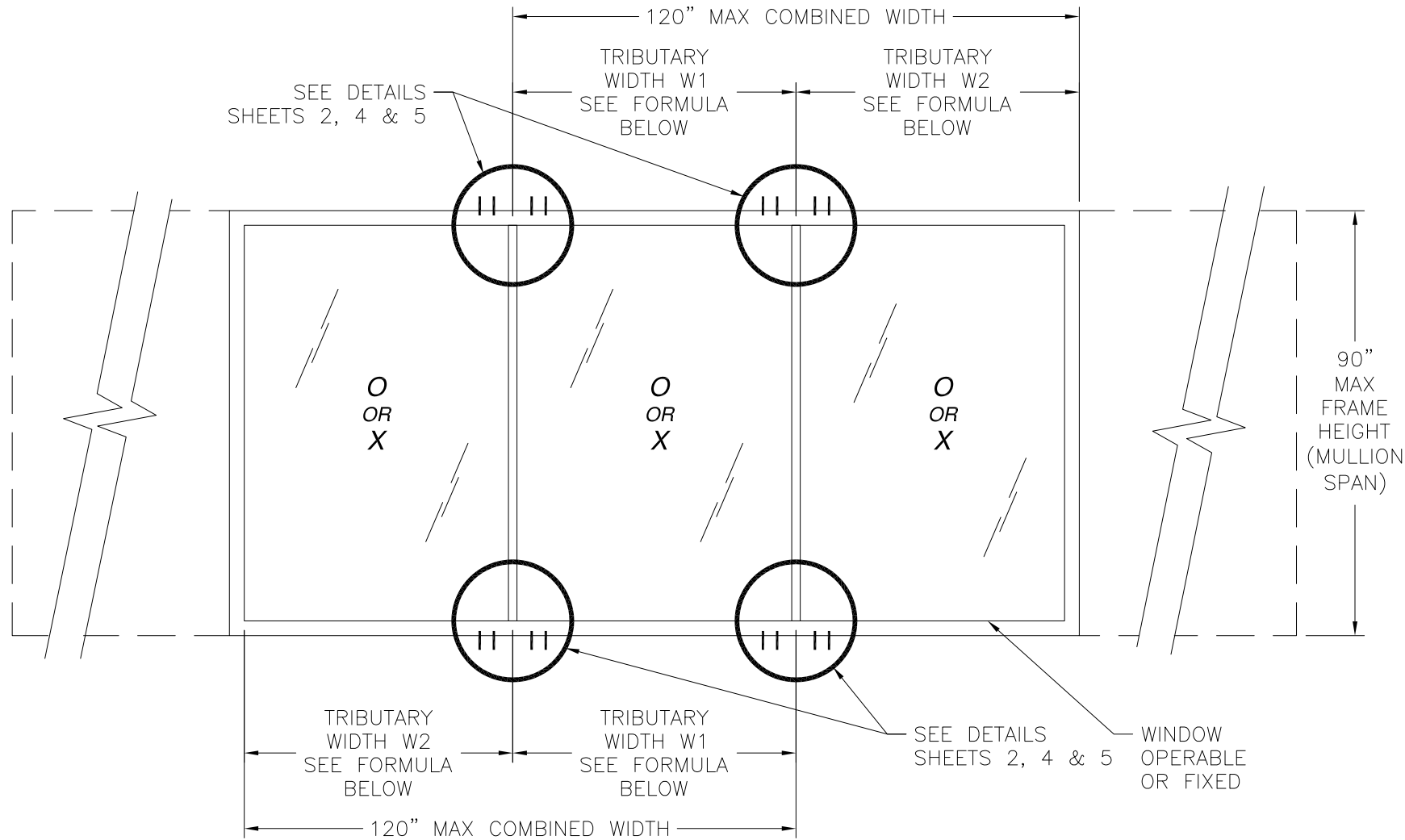
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### VERTICAL MULLION

UNLIMITED NUMBER OF PANELS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED MAXIMUM PANEL SIZE AND ARE ANCHORED AS SHOWN.

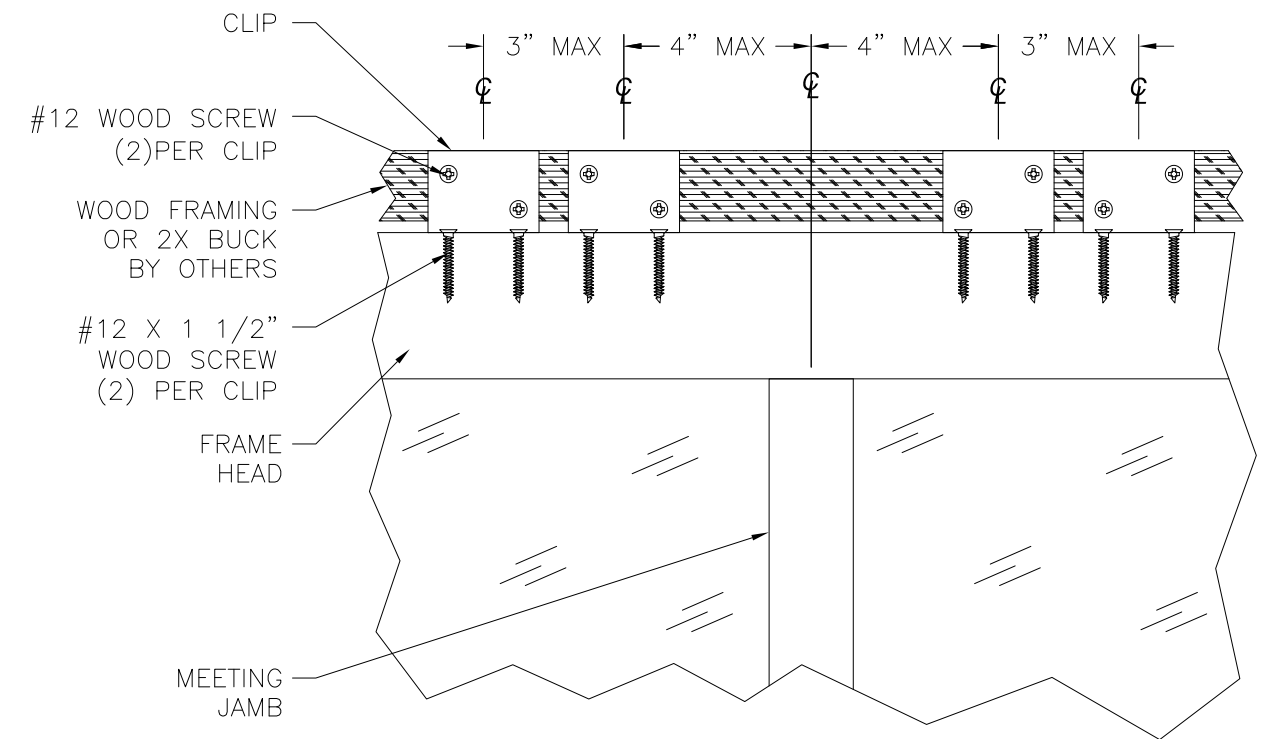
| DESIGN PRESSURE RATING | IMPACT RATING                  |
|------------------------|--------------------------------|
| $\pm 70\text{PSF}$     | LARGE AND SMALL MISSILE IMPACT |

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

COMBINED WIDTH OF TWO ADJACENT UNITS SHALL NOT EXCEED 120". SEE FORMULA BELOW.

$$\text{COMBINED WIDTH} = W1 + W2 \leq 120"$$

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### MULLION INSTALLATION

FRONT VIEW

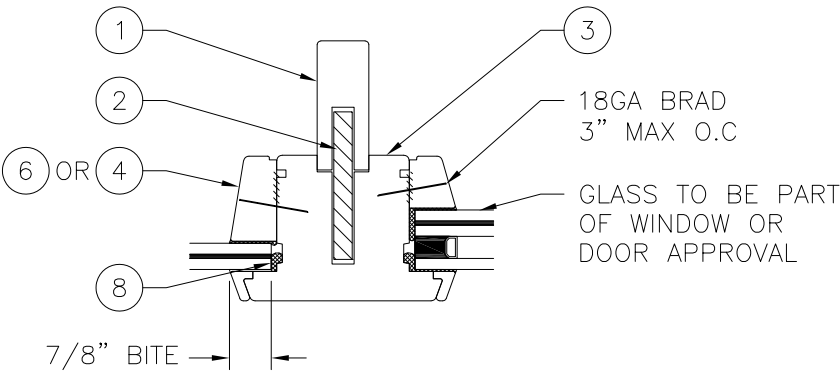
REFER TO SHEETS 5 AND 6 FOR ADDITIONAL ANCHORING CONFIGURATIONS AND DETAILS

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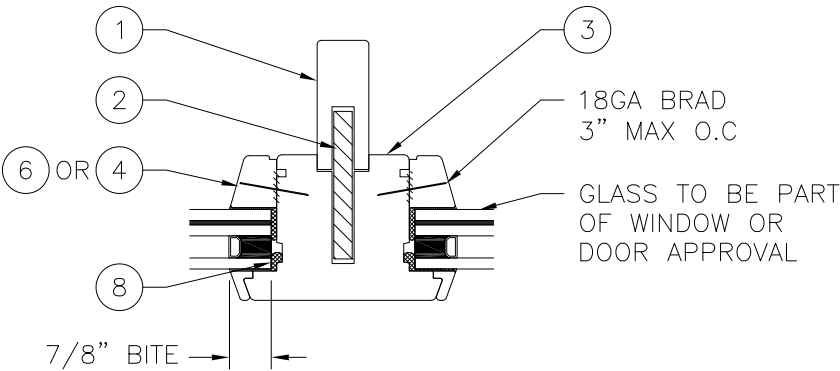
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|---------------------------------------------------------------------------------------------------|----------------------|-----------------|
| <b>BILDAU &amp; BUSSMANN GMBH</b><br>GERICHTSTRASSE 23<br>DE 13347 BERLIN, GERMANY                |                      |                 |
| SINGLE TIMBER INTEGRAL VERTICAL MULLION<br>IMPACT 90" SPAN<br>ELEVATION                           |                      |                 |
| DRAWN:<br>R.L.                                                                                    | DWG NO.<br>08-01858A | REV<br>A        |
| SCALE<br>NTS                                                                                      | DATE<br>12/27/12     | SHEET<br>2 OF 5 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                      |                 |

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| PARTS LIST |             |                  |              |                  |
|------------|-------------|------------------|--------------|------------------|
| NO.        | PART NUMBER | DESCRIPTION      | MANUFACTURER | MATERIAL         |
| 1          |             | JAMB EXTENSION   | B&B          | WOOD SEE NOTE 5  |
| 2          |             | REINFORCEMENT    | B&B          | STEEL A36        |
| 3          |             | MEETING JAMB     | B&B          | WOOD SEE NOTE 5  |
| 4          |             | GLASS STOP       | B&B          | WOOD SEE NOTE 5  |
| 5          |             | GLASS STOP       | B&B          | WOOD SEE NOTE 5  |
| 6          |             | GLASS STOP       | B&B          | WOOD SEE NOTE 5  |
| 7          |             | GLASS STOP       | B&B          | WOOD SEE NOTE 5  |
| 8          | 552         | SIKA FLEX        | SIKA         |                  |
| 9          |             | CLIP             |              | GALVANIZED STEEL |
| 10         | A33         | CLIP (ALTERNATE) | STRONG TIE   | GALVANIZED STEEL |
| 11         | HL33        | CLIP (ALTERNATE) | STRONG TIE   | GALVANIZED STEEL |
| 12         | M24         | CLIP (ALTERNATE) | STRONG TIE   | GALVANIZED STEEL |

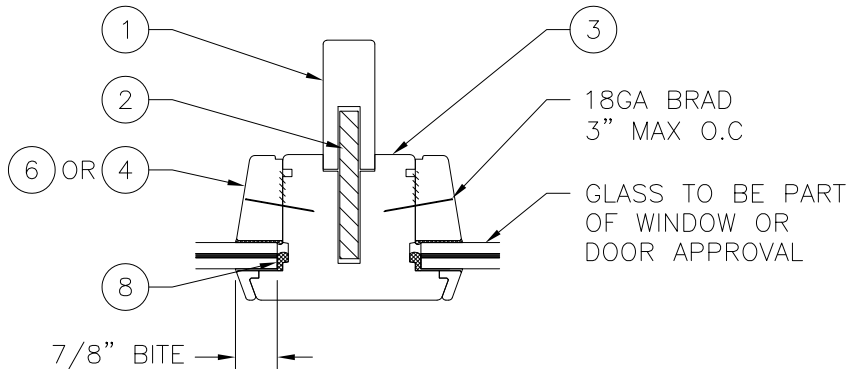


MULLION CROSS SECTION

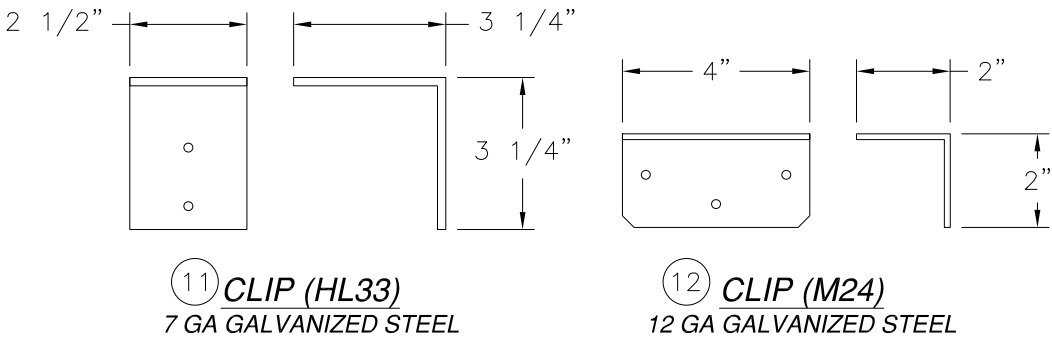
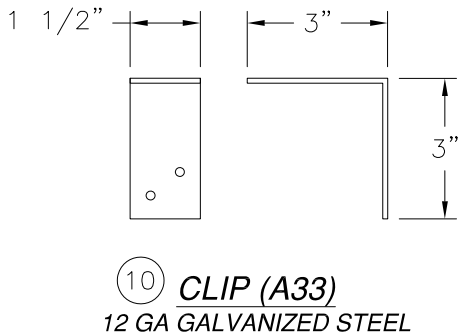
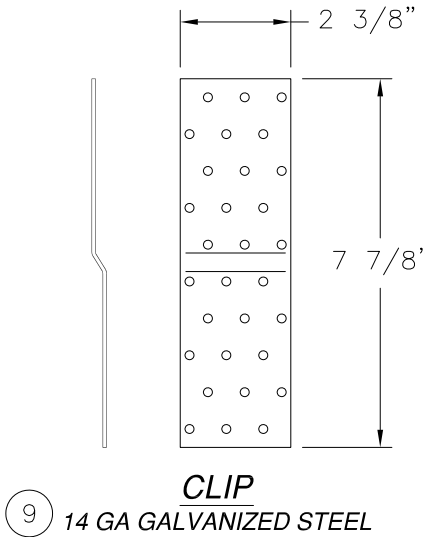
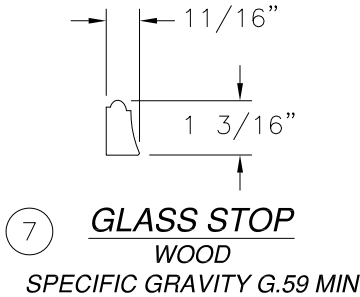
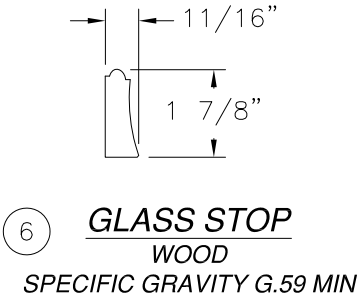
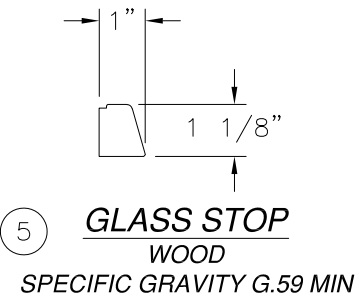
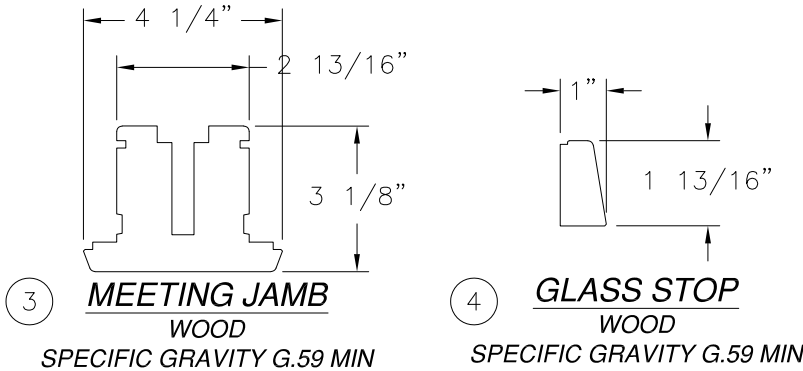
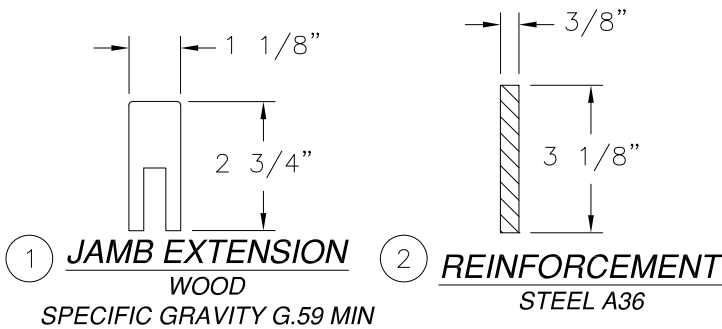


MULLION CROSS SECTION

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MULLION CROSS SECTION



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IMPACT 90" SPAN  
CROSS SECTIONS, B.O.M. AND COMPONENTS

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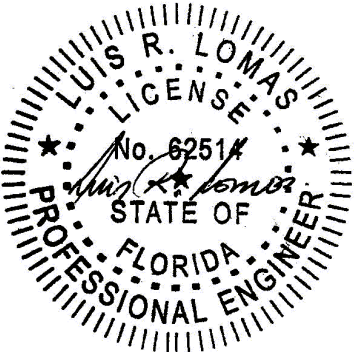
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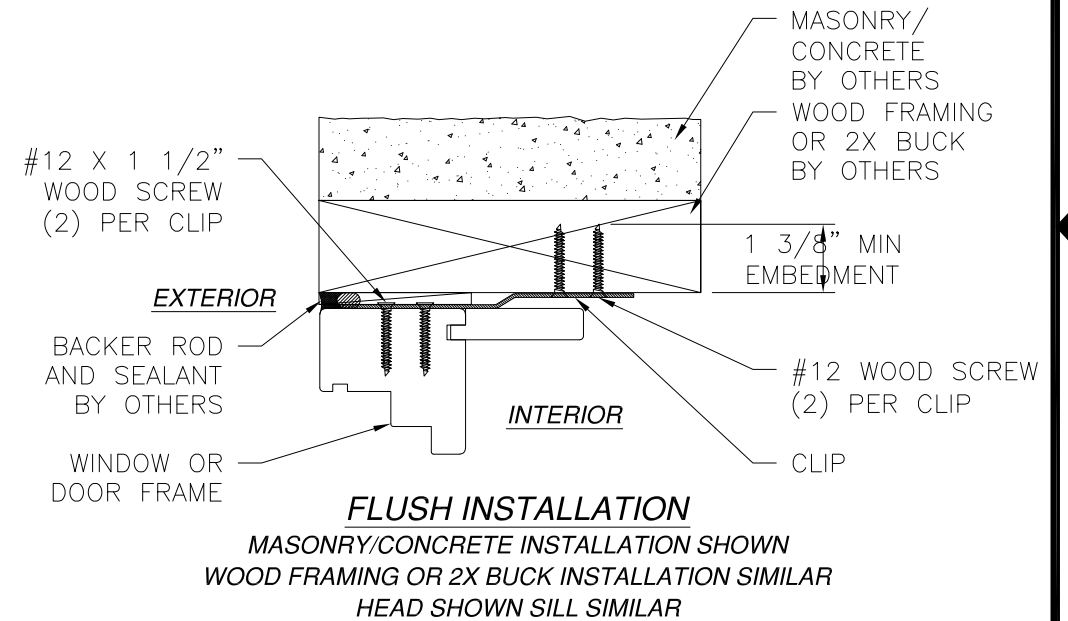
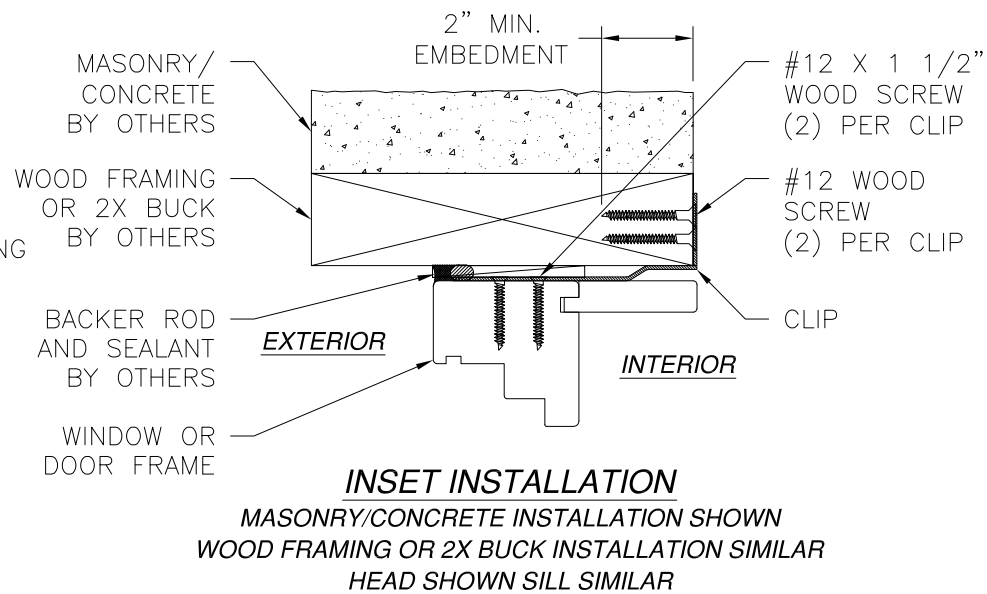
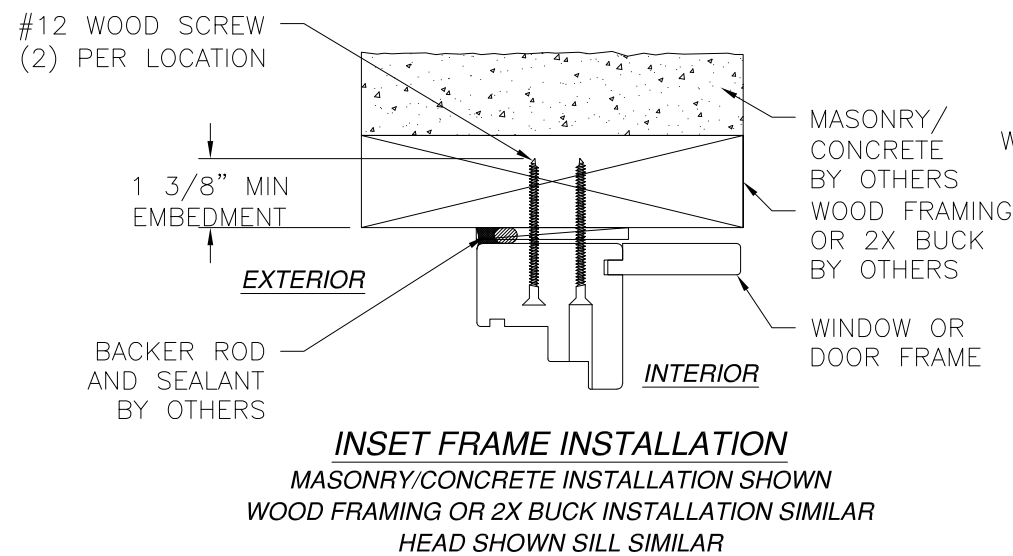
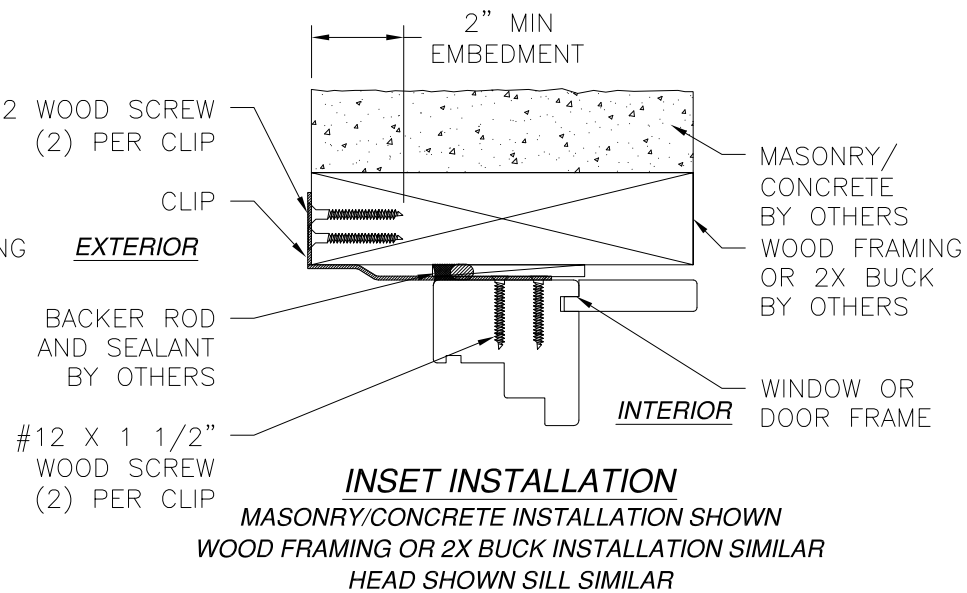
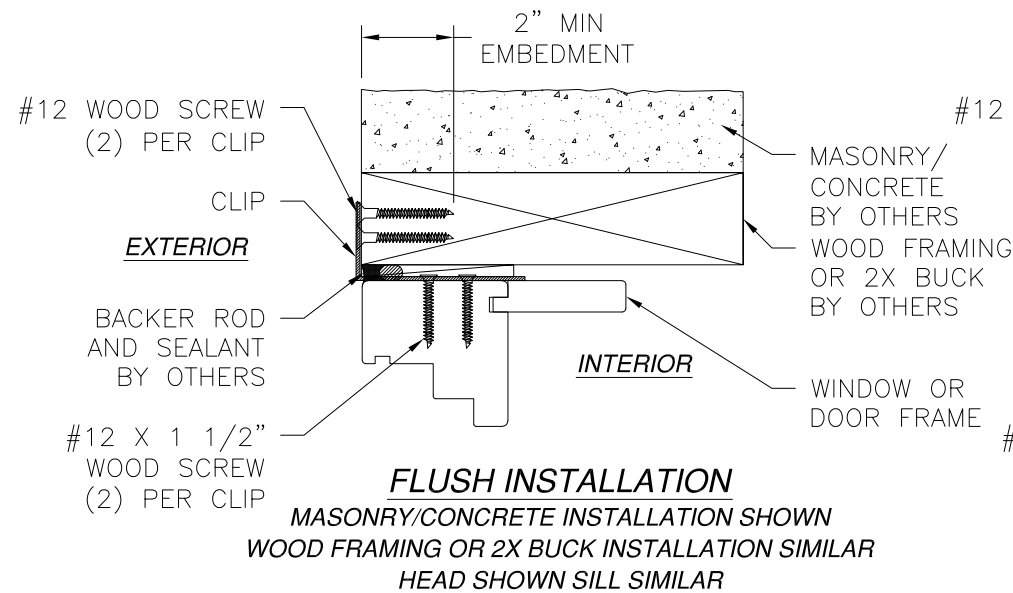
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SHEET  
3 OF 5

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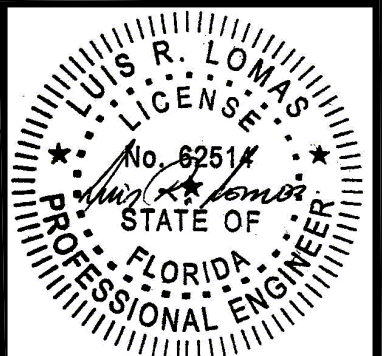
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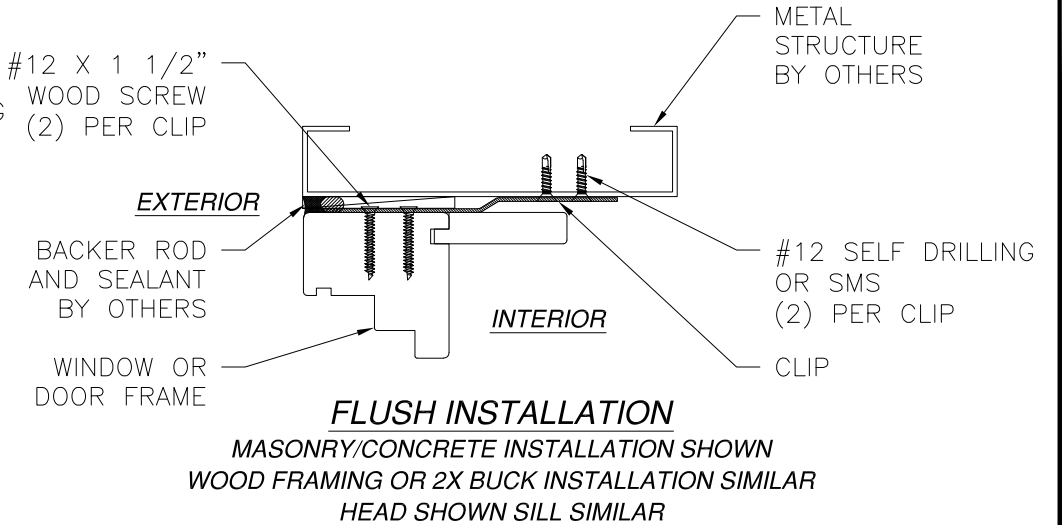
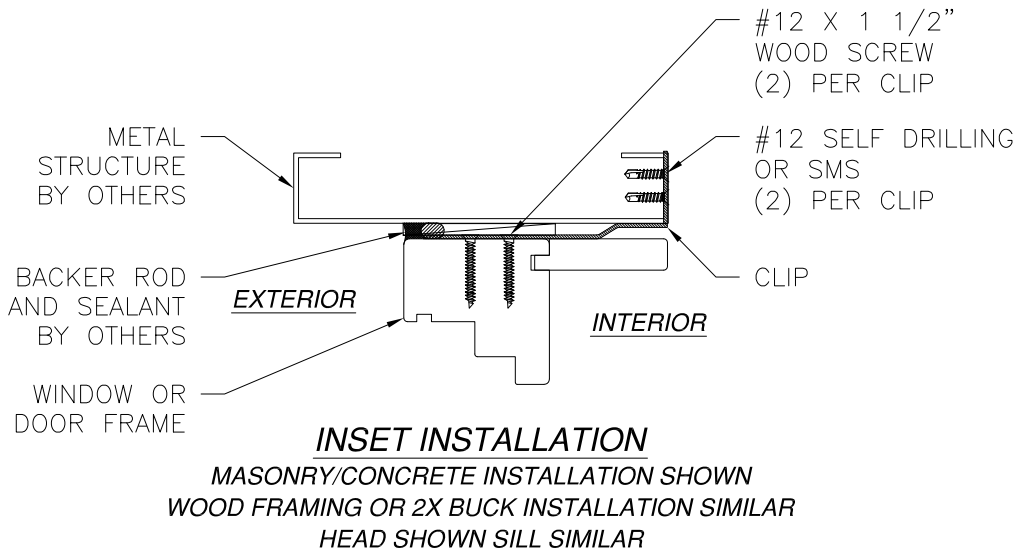
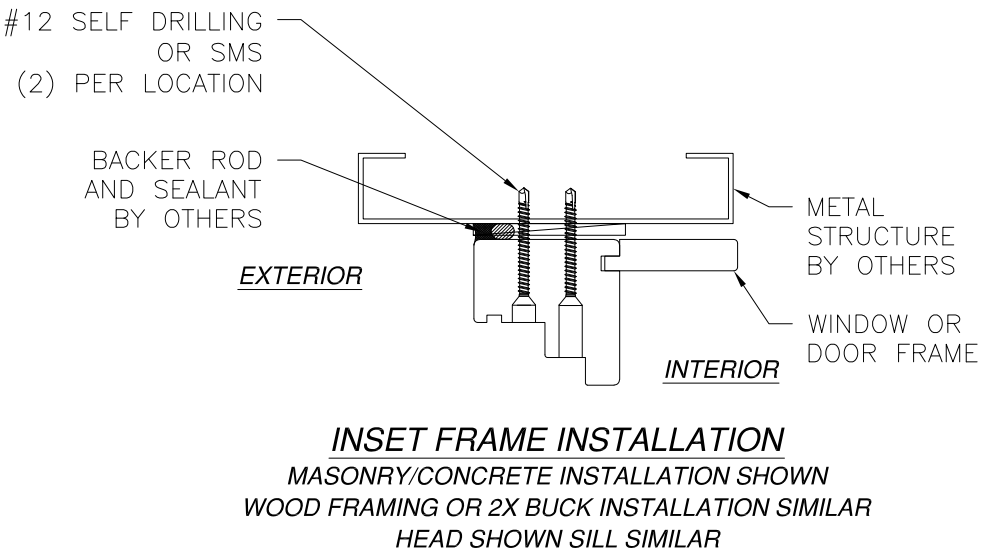
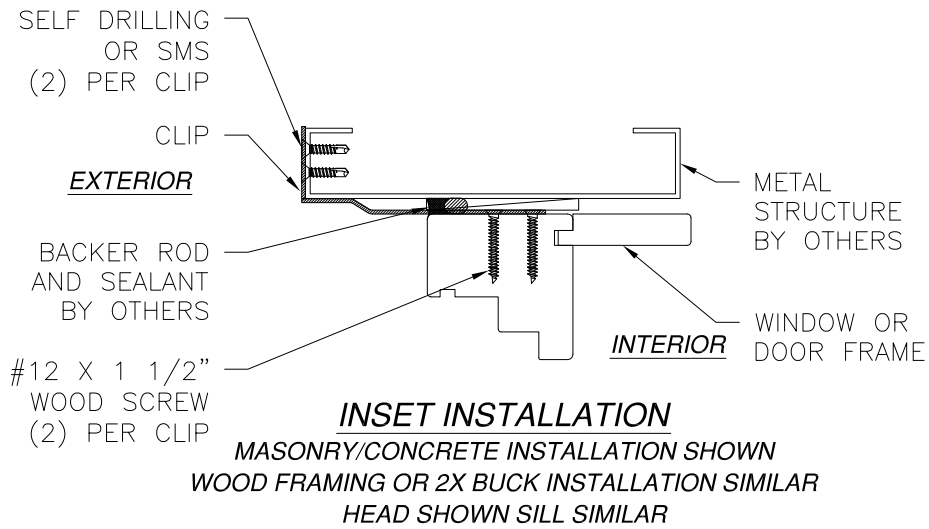
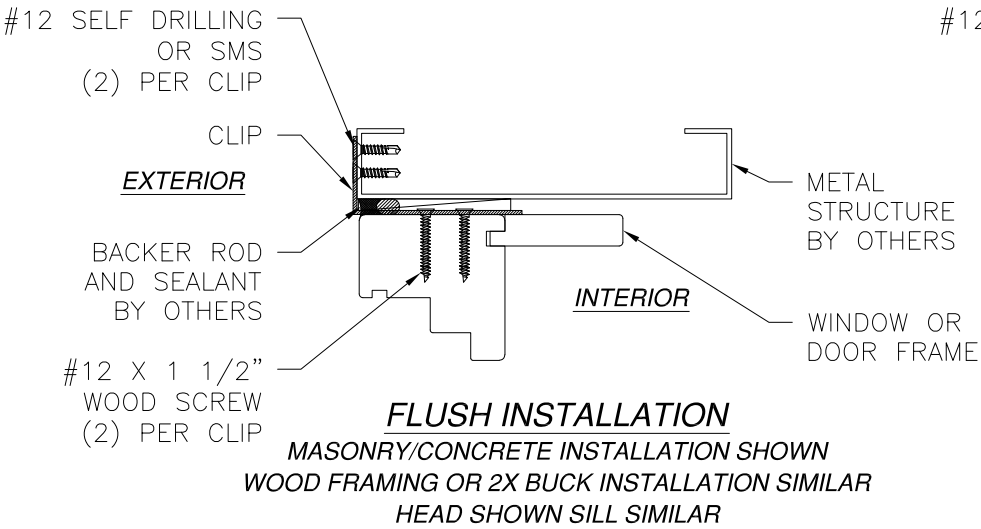
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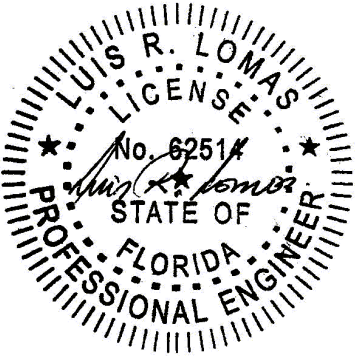
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