

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	02/20/2024	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 METAL STRUCTURE 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” 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. SHIM AS NEEDED 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: WOOD SPECIFIC GRAVITY G=0.59 MINIMUM (INCLUDES BUT IS NOT LIMITED TO: LARCH, SIPO, MERANTI, MAHOGANY, WHITE OAK, WALNUT).
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 3 FOR GLAZING DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK 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.
14. FOR ANCHORING INTO METAL STRUCTURE USE #12 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.
15. ALL FASTENERS TO BE CORROSION RESISTANT.
16. 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:

16.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.42

16.2. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM
17. SIMULATED DIVIDED LITE MUNTINS ARE OPTIONAL.
18. SIMULATED DIVIDED LITE MUNTINS ARE OPTIONAL.

SIGNED: 09/30/2024

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3 – 4	B.O.M., CROSS SECTIONS & GLAZING DETAILS
5 – 6	INSTALLATION DETAILS
7 – 8	COMPONENTS

BILDAU & BUSSMANN GMBH
GERICHTSTRASSE 23
DE 13347 BERLIN, GERMANY

LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08–01355A

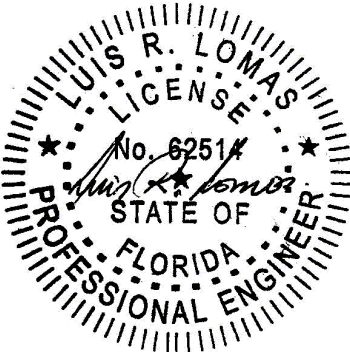
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SCALE NTS

DATE 07/24/12

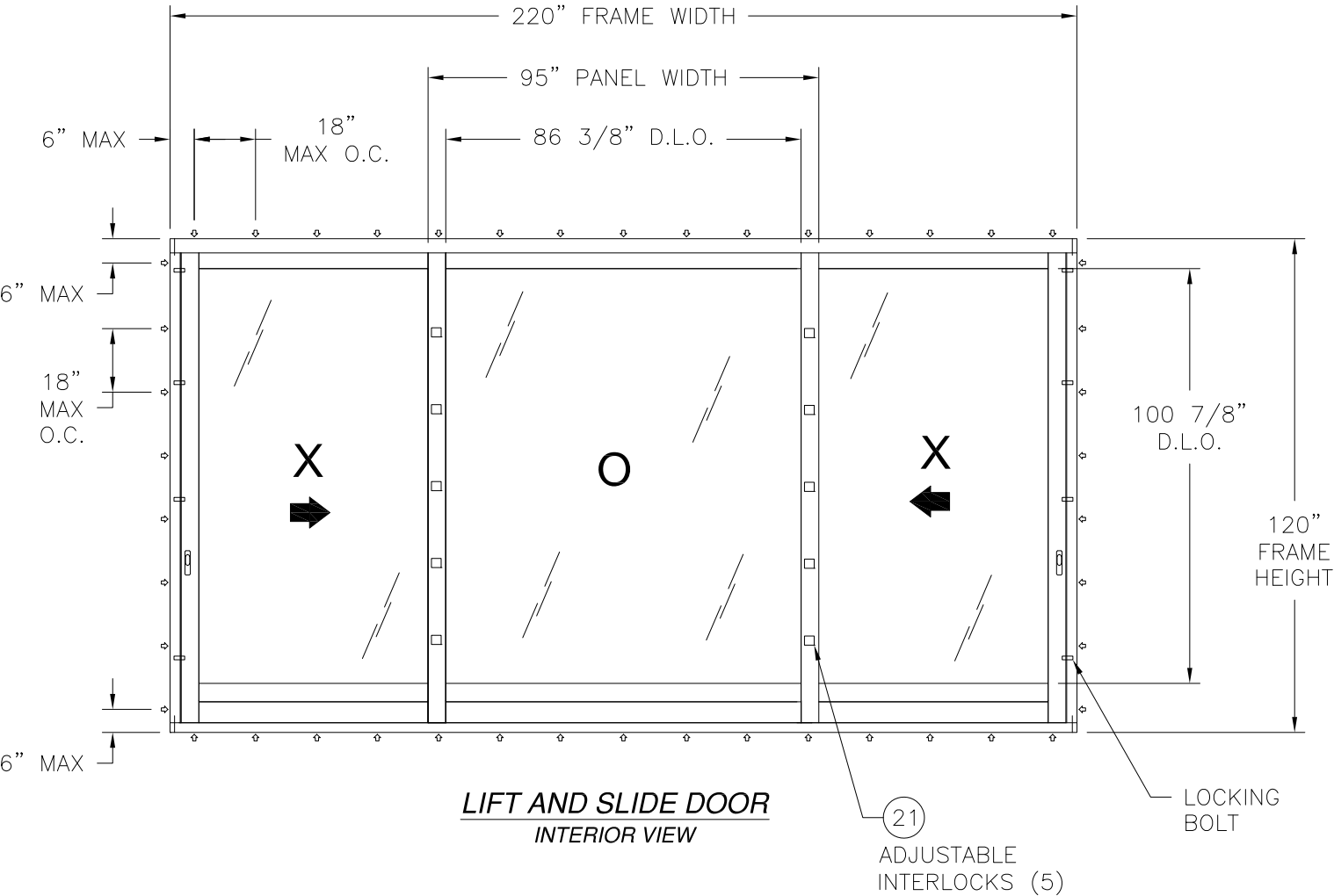
SHEET 1 OF 10

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com



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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

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GERICHTSTRASSE 23
DE 13347 BERLIN, GERMANY

LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
ELEVATION

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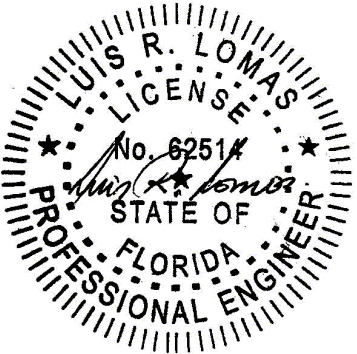
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07/24/12

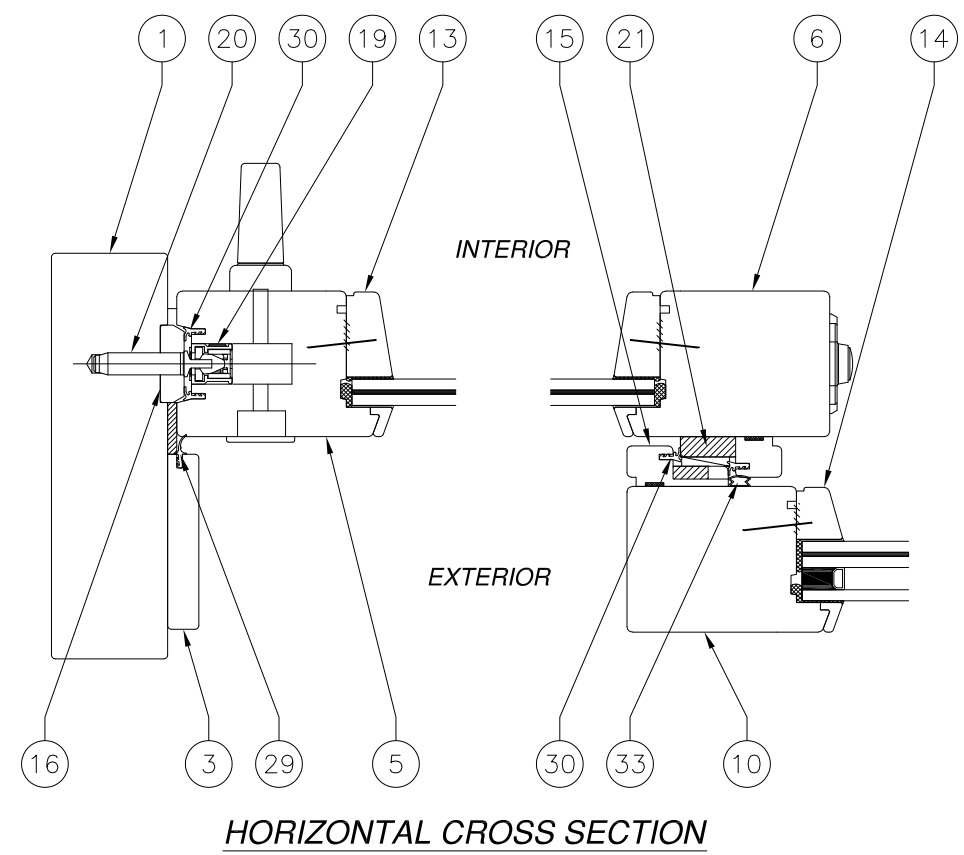
SHEET
2 OF 10

L. ROBERTO LOMAS P.E.
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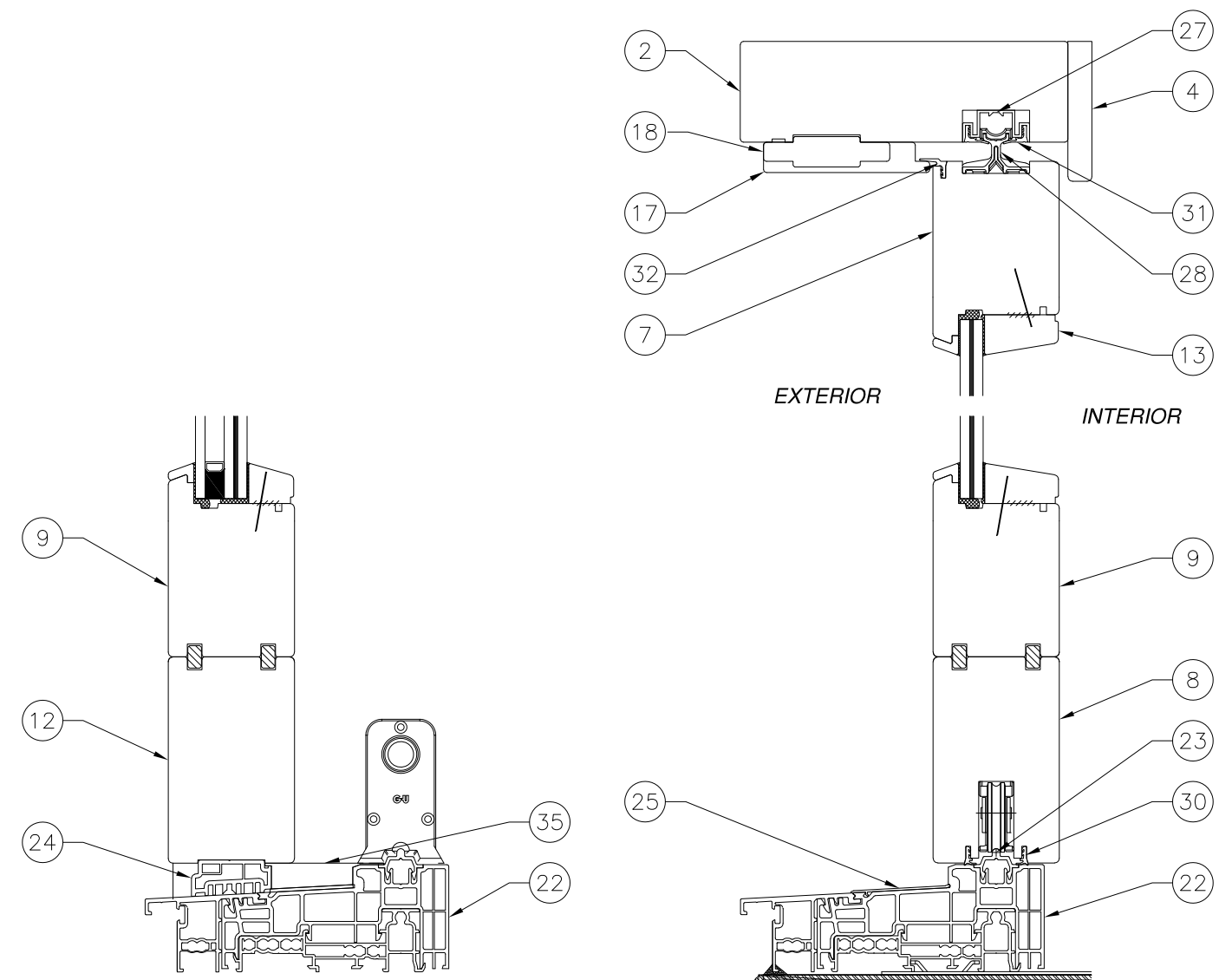


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HORIZONTAL CROSS SECTION



VERTICAL CROSS SECTION

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GERICHTSTRASSE 23
DE 13347 BERLIN, GERMANY

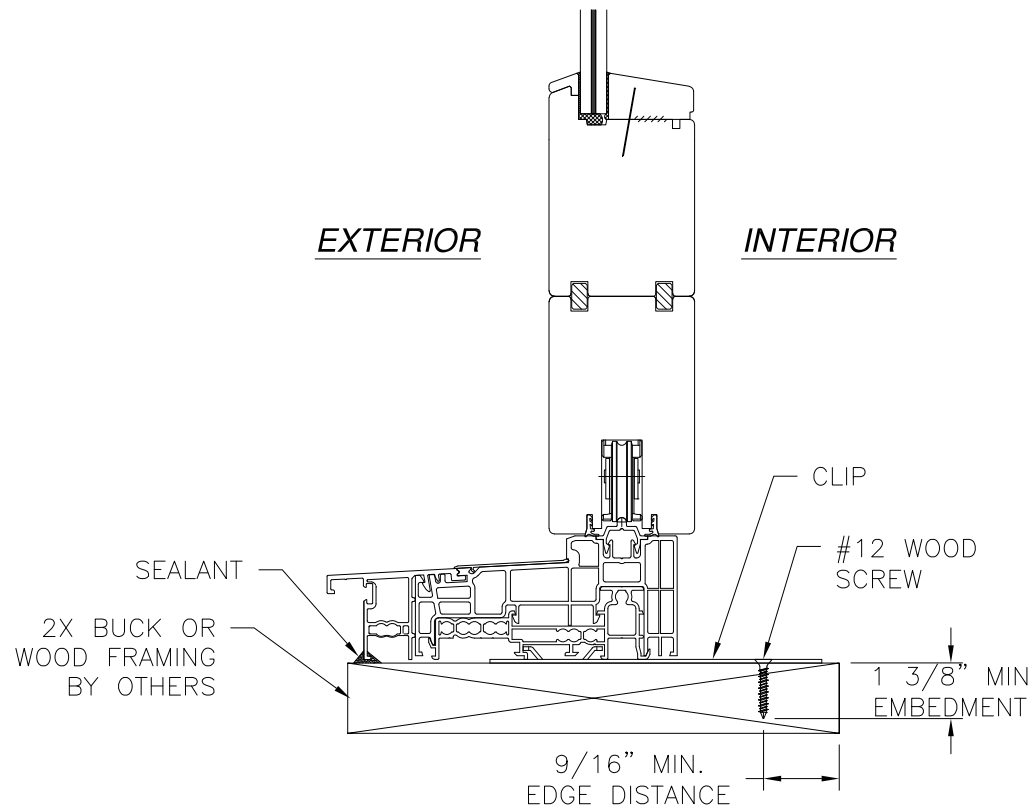
LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
CROSS SECTIONS

DRAWN: R.L.	DWG NO. 08-01355A	REV A
SCALE NTS	DATE 07/24/12	SHEET 4 OF 10

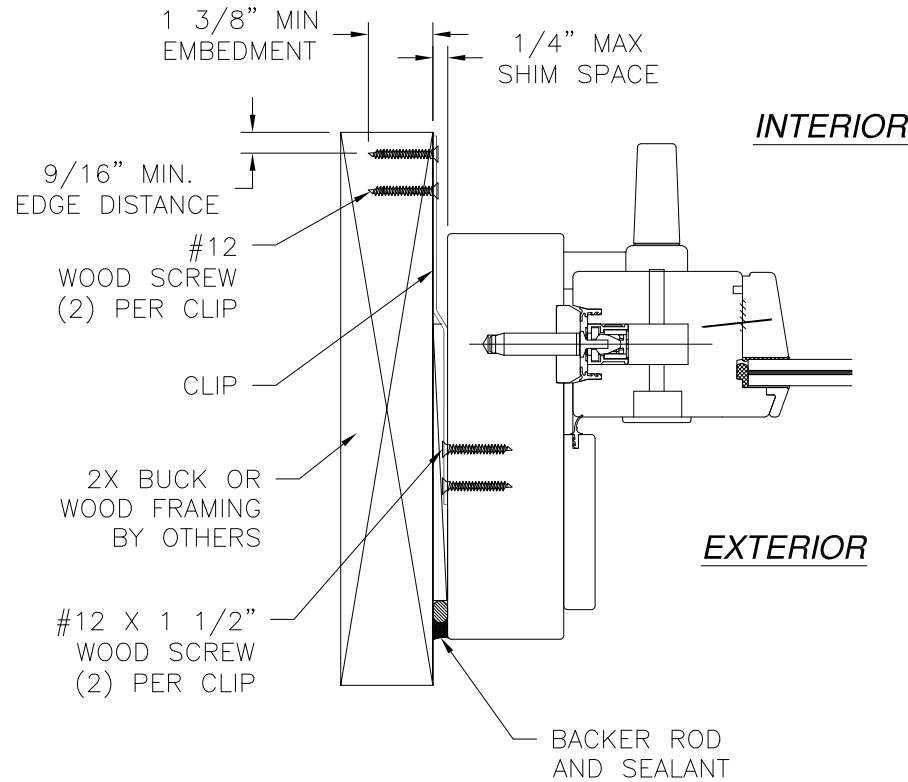
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LUIS R. LOMAS
LICENSE
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

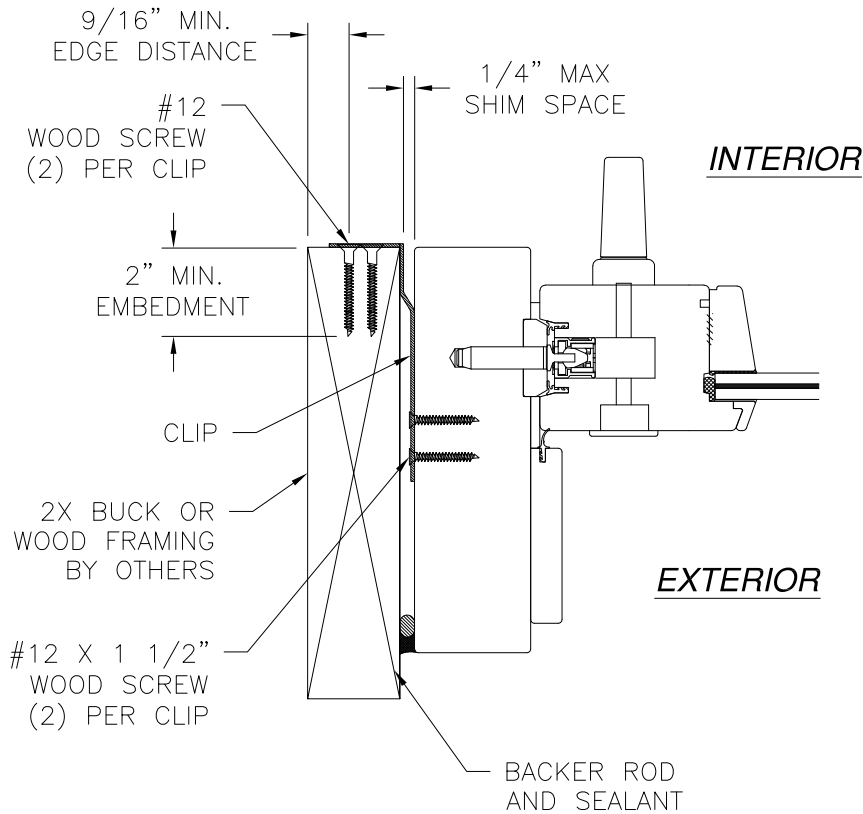
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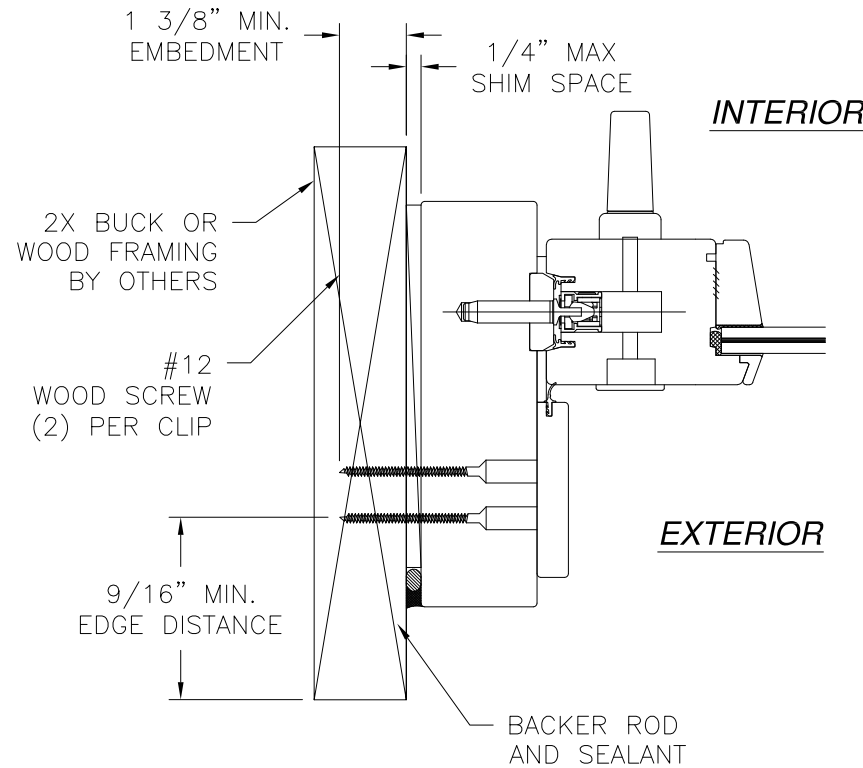
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



INSET INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION
JAMB SHOWN HEAD SIMILAR



FLUSH INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION
JAMB SHOWN HEAD SIMILAR



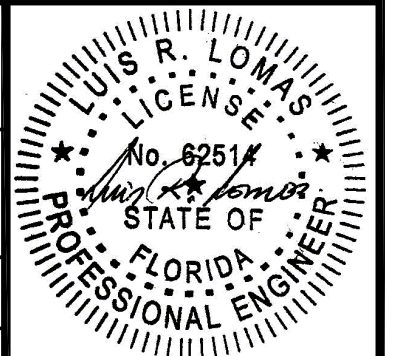
INSET FRAME INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION
JAMB SHOWN HEAD SIMILAR

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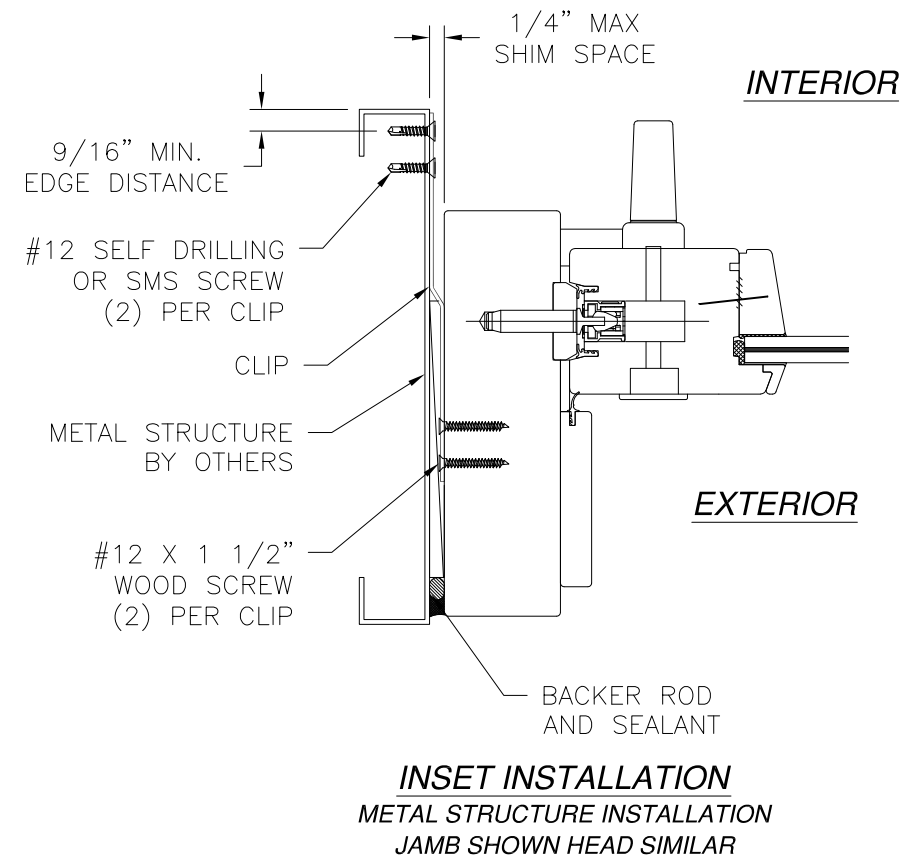
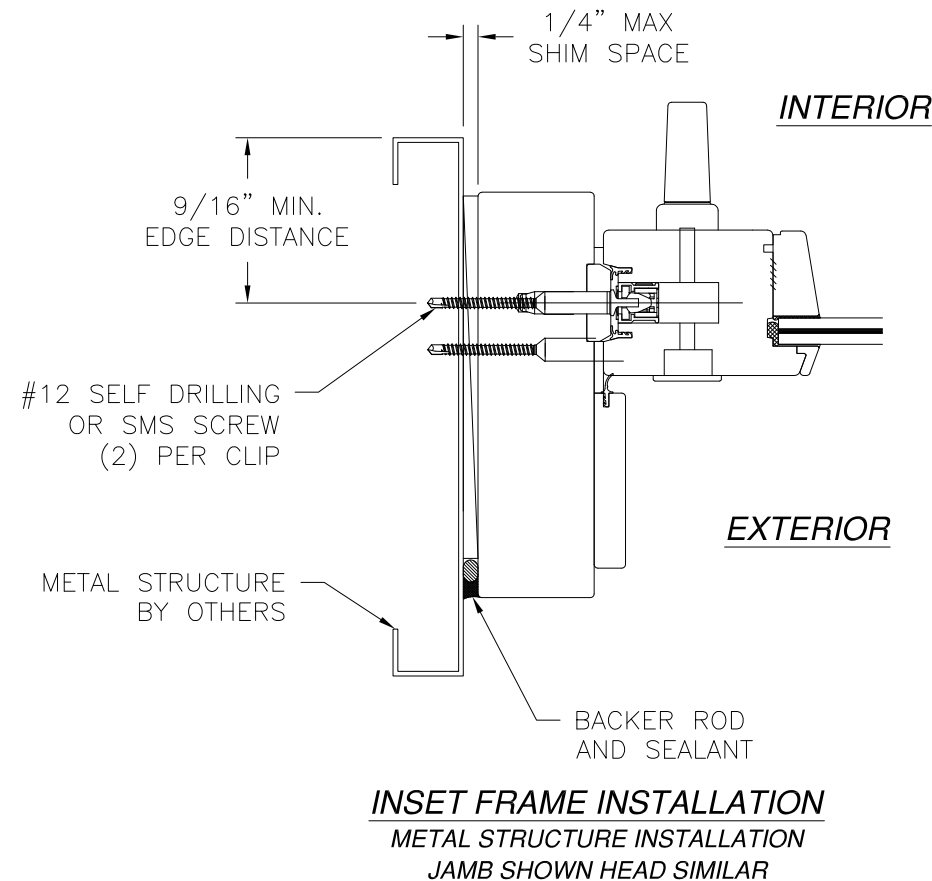
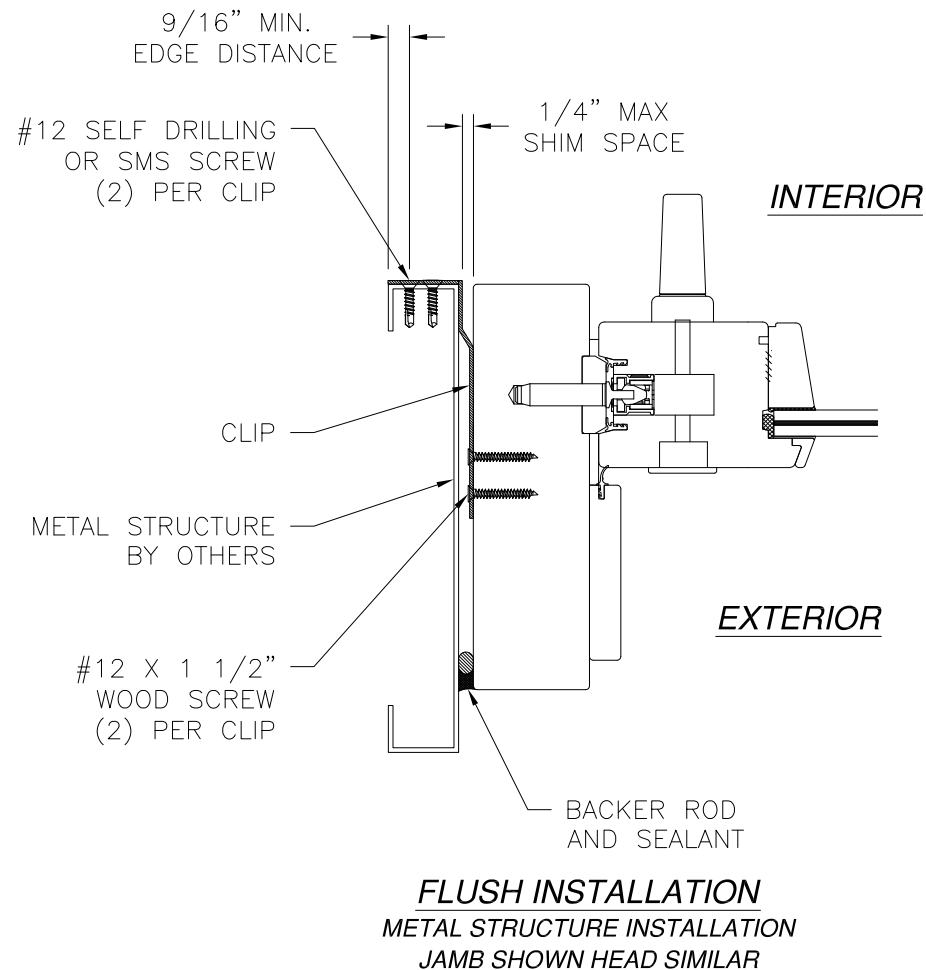
NOTES:
INTERIOR AND EXTERIOR TRIM, BY OTHERS, NOT SHOWN FOR CLARITY.
FOR INSTALLING PRODUCT INTO MASONRY 2X BUCK MUST BE USED. 2X BUCK TO BE PROPERLY SECURED TO BUILDING STRUCTURE.

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BILDAU & BUSSMANN GMBH GERICHTSTRASSE 23 DE 13347 BERLIN, GERMANY		
LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01355A	REV A
SCALE NTS	DATE 07/24/12	SHEET 5 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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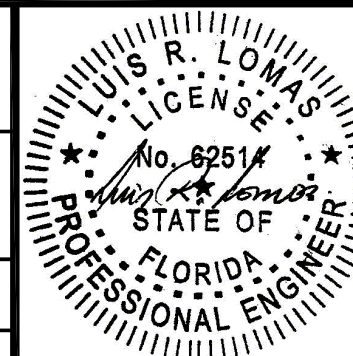


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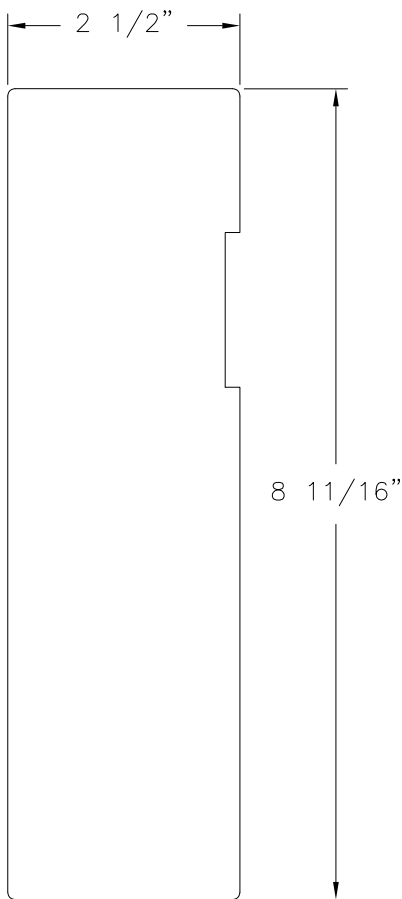
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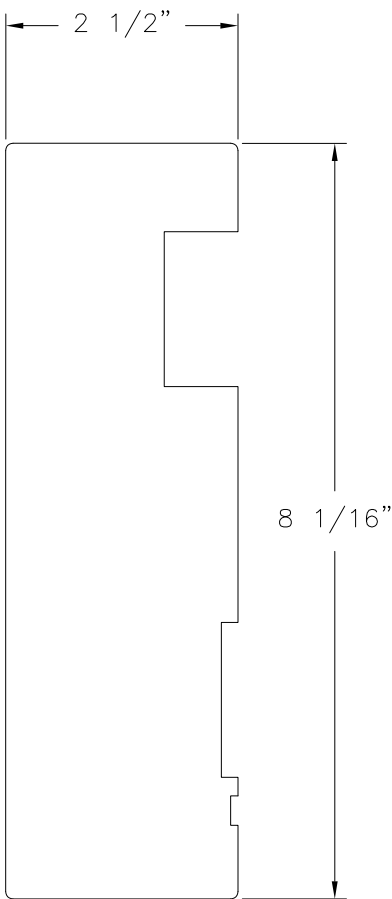
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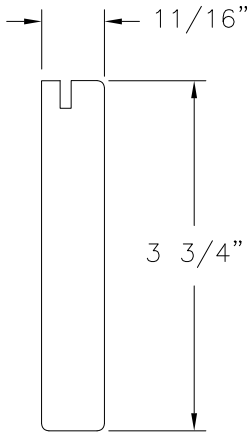
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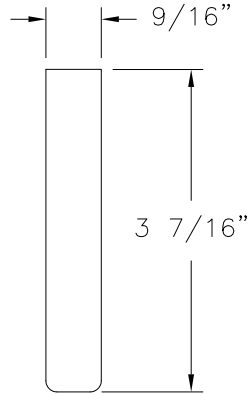
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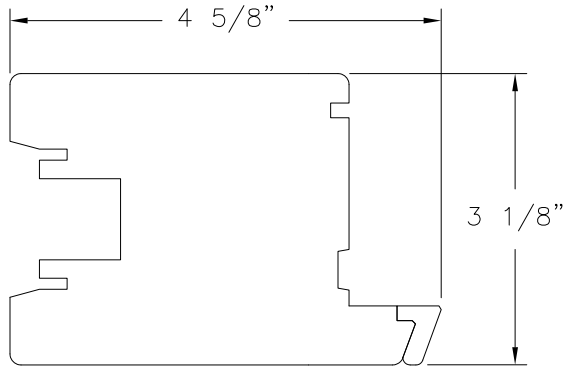
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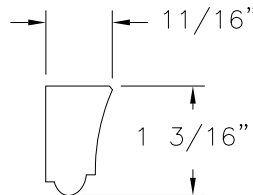
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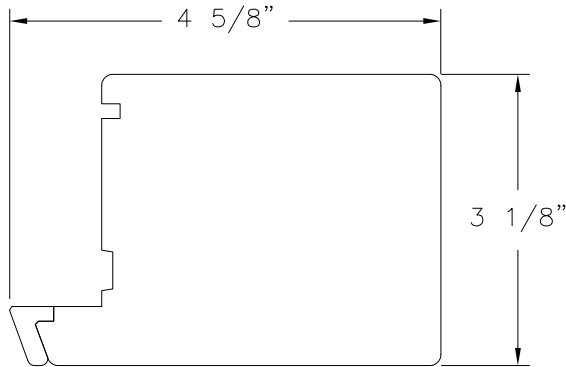
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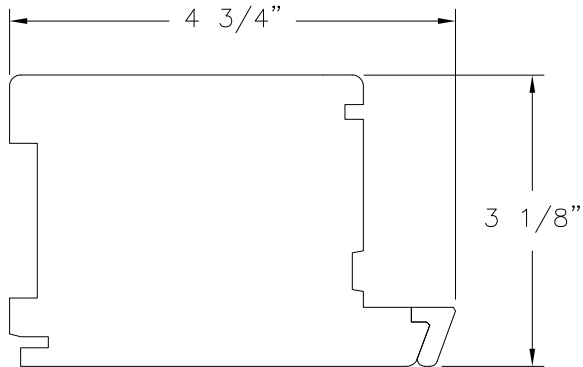
⑤ **SASH LOCK STILE**
WOOD SPECIFIC GRAVITY G.45 MIN



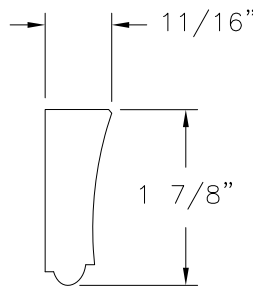
④⑨ **GLASS STOP**
WOOD SPECIFIC GRAVITY G.59 MIN



⑥ **SASH MEETING STILE**
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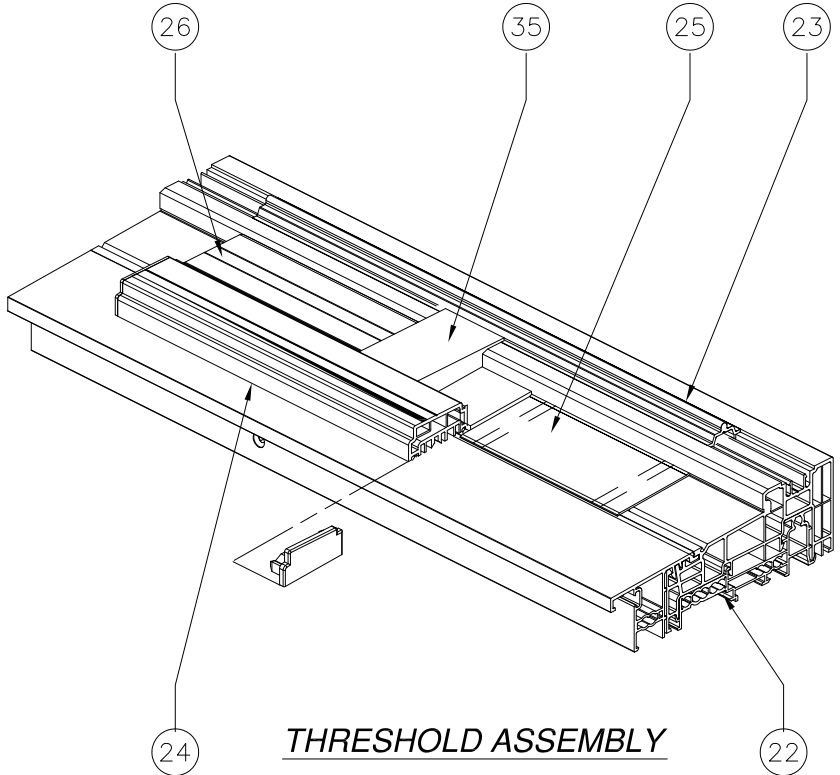


⑦ **SASH TOP RAIL**
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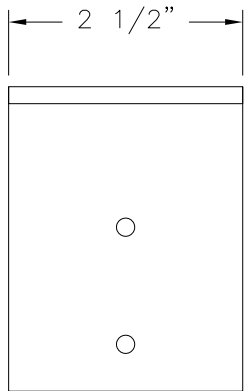


④⑧ **GLASS STOP**
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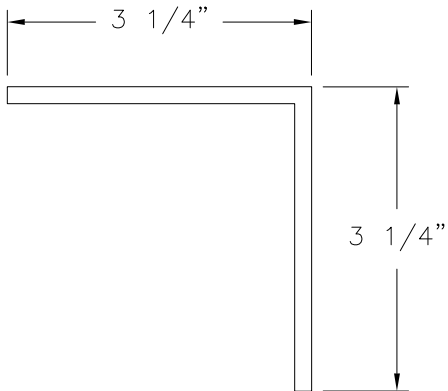
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THRESHOLD ASSEMBLY

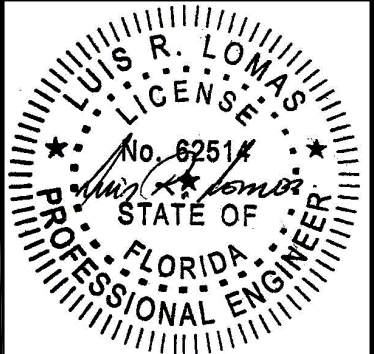


④⑥ **CLIP (HL33)**
7 GA GALVANIZED STEEL



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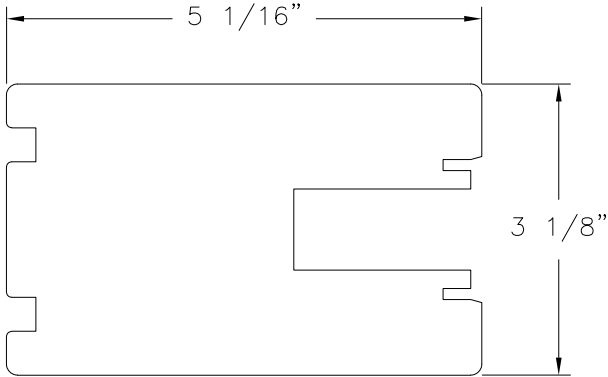
BILDAU & BUSSMANN GMBH GERICHTSTRASSE 23 DE 13347 BERLIN, GERMANY		
LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT COMPONENTS		
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SCALE NTS	DATE 07/24/12	SHEET 7 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



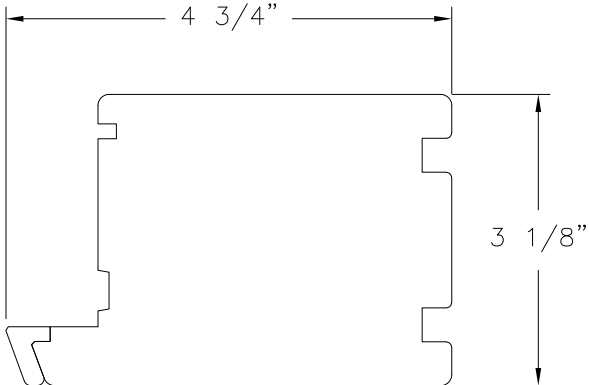
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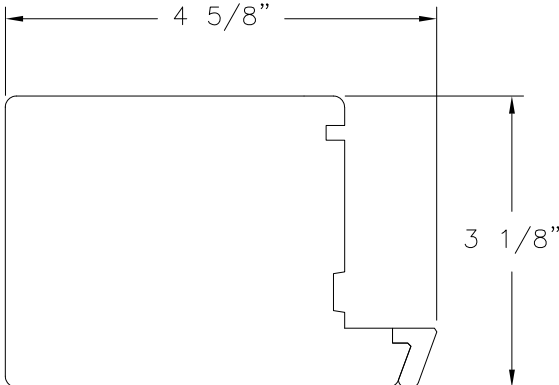
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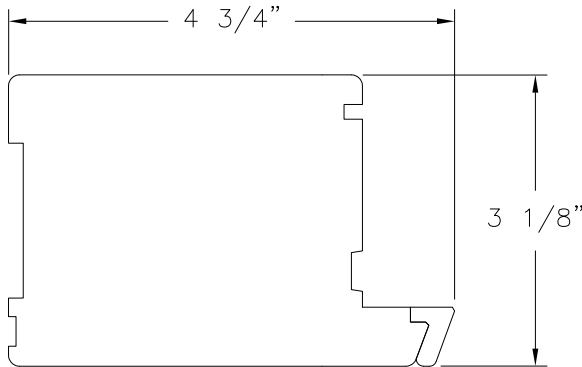
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WOOD SPECIFIC GRAVITY G.45 MIN



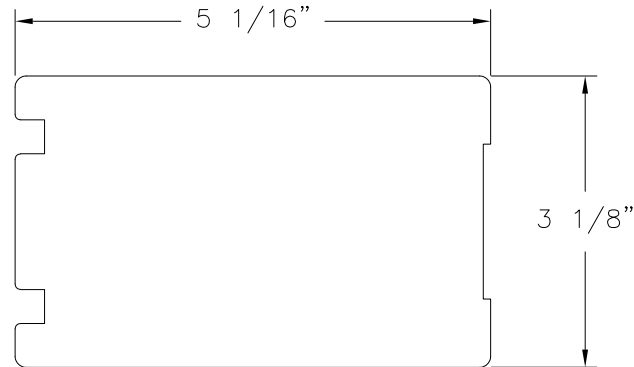
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WOOD SPECIFIC GRAVITY G.45 MIN



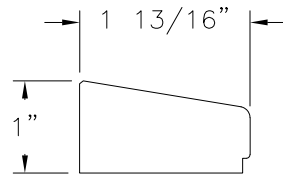
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WOOD SPECIFIC GRAVITY G.45 MIN



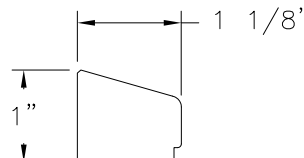
⑪ **SASH TOP RAIL**
WOOD SPECIFIC GRAVITY G.45 MIN



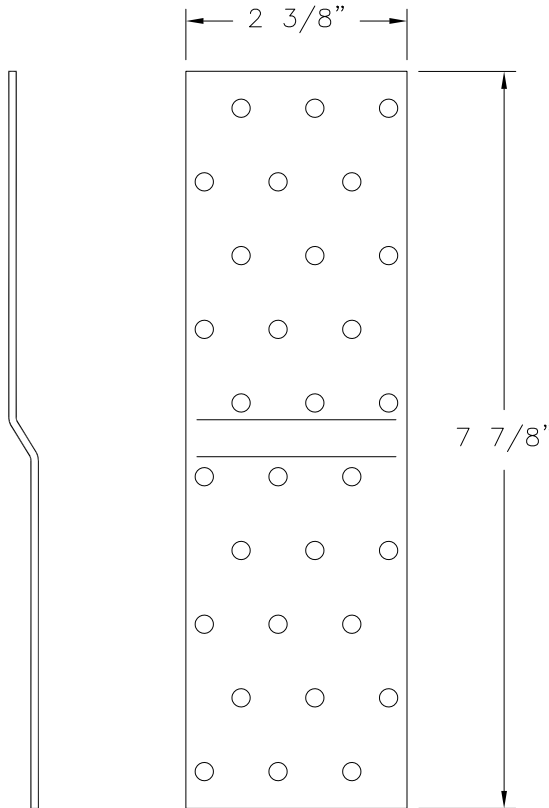
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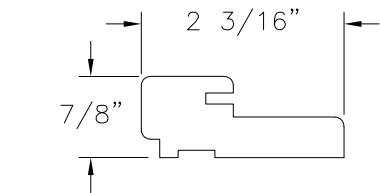
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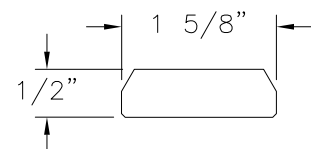
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WOOD SPECIFIC GRAVITY G.45 MIN



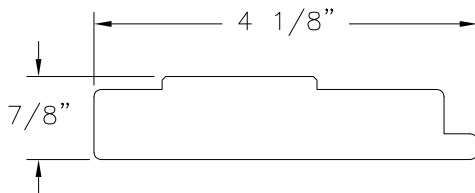
④④ **CLIP**
14GA GALVANIZED STEEL



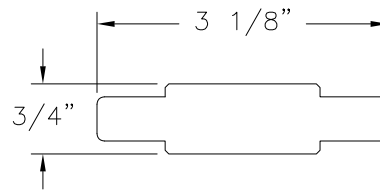
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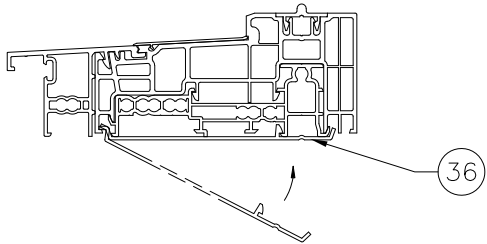
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WOOD SPECIFIC GRAVITY G.45 MIN



⑰ **SEALING BATTEN**
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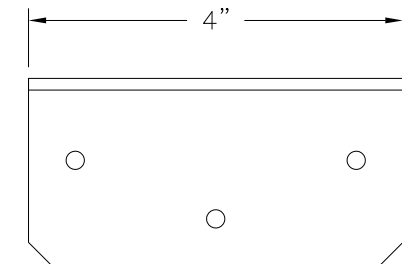


⑱ **BATTEN BLOCKING**
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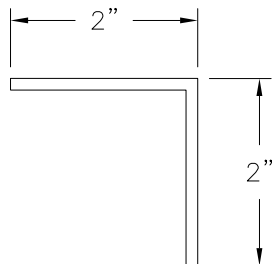


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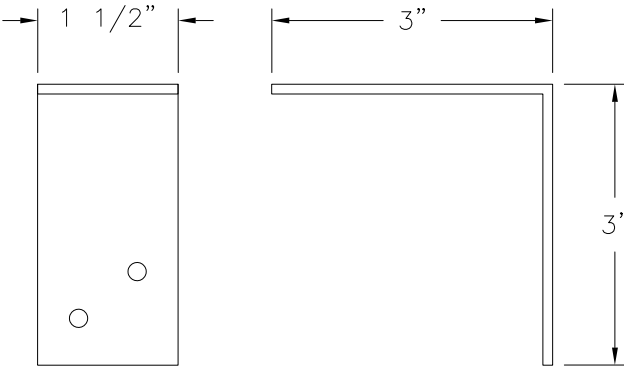
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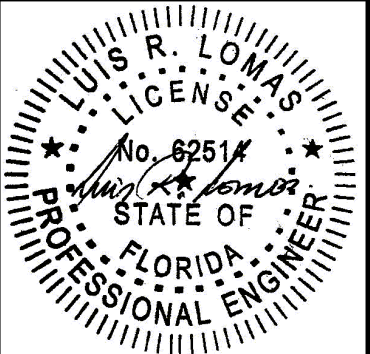
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12 GA GALVANIZED STEEL



④⑦ **CLIP (A33)**
12 GA GALVANIZED STEEL



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