

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED MANUFACTURER ADDRESS	07/22/2026	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 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.
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BILDAU & BUSSMANN NORTH AMERICA INC.
200 CONTINENTAL DRIVE, SUITE 401
NEWARK, DE 19713

LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-01355B

REV
B

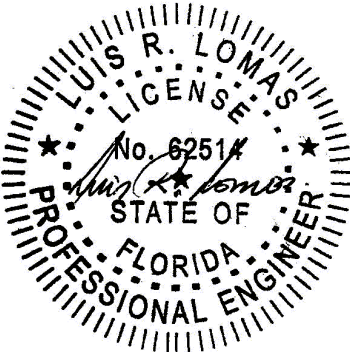
SCALE NTS

DATE 07/24/12

SHEET 1 OF 10

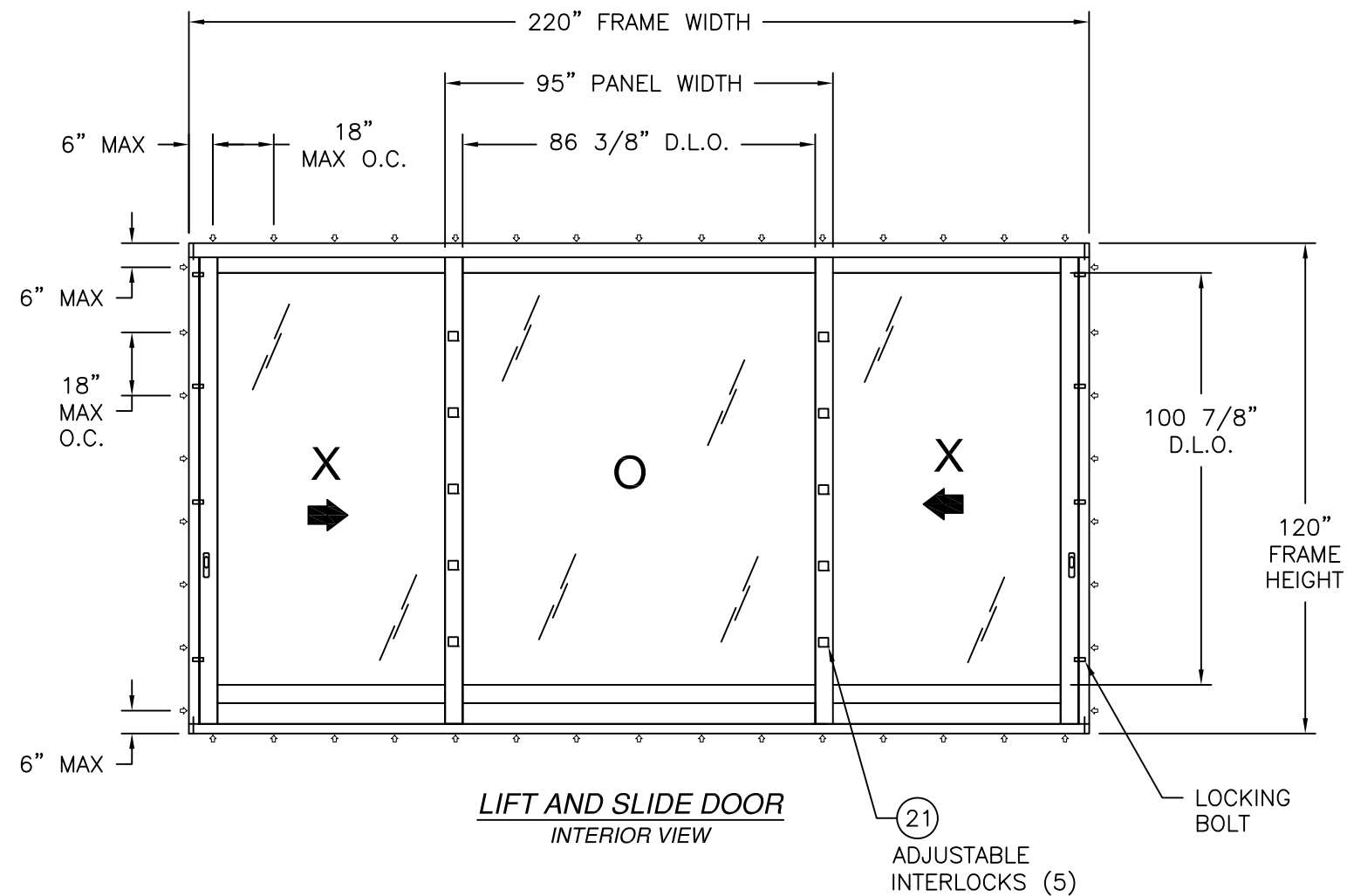
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 07/22/2026



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

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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

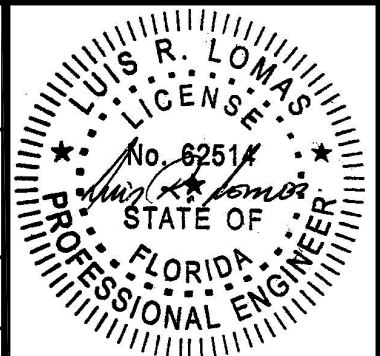
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IMPACT
ELEVATION

DRAWN: R.L.	DWG NO. 08-01355B	REV B
SCALE NTS	DATE 07/24/12	SHEET 2 OF 10

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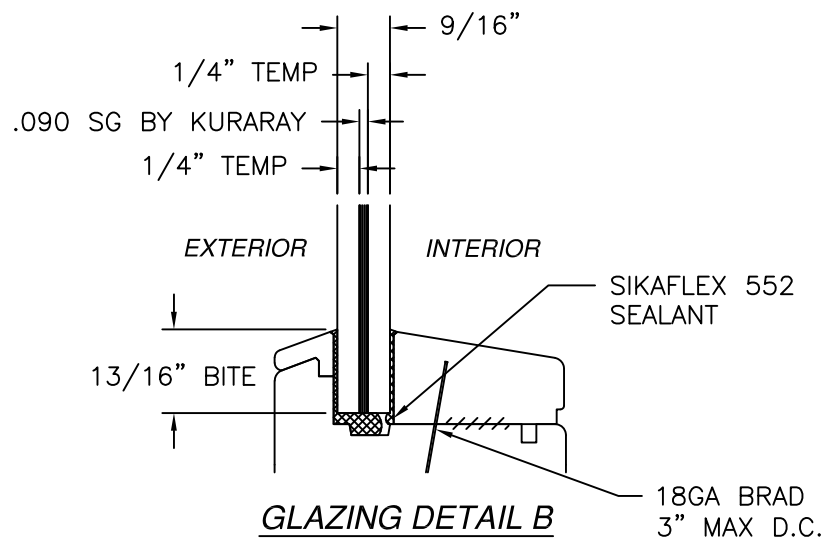
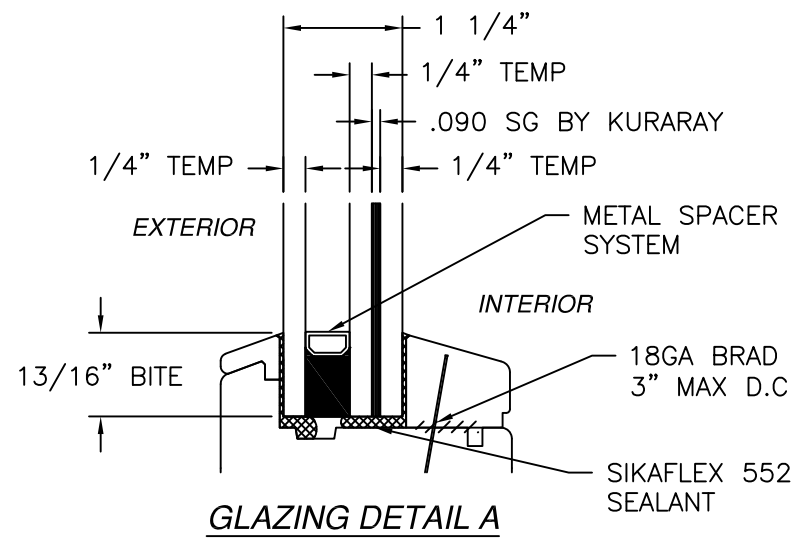
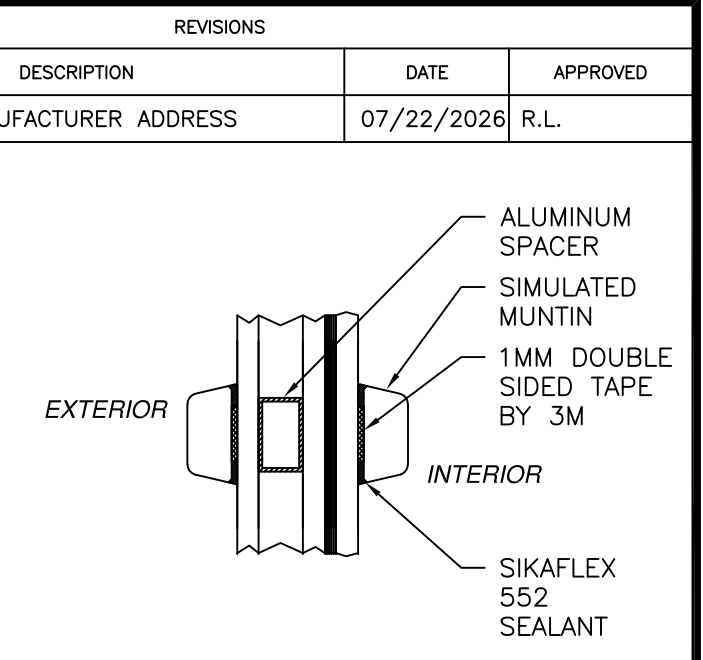
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PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1		FRAME JAMB	B&B	WOOD
2		FRAME HEAD	B&B	WOOD
3		FRAME SEALING BATTEN	B&B	WOOD
4		FRAME FRONT BATTEN	B&B	WOOD
5		SLIDING SASH LOCK STILE	B&B	WOOD
6		SLIDING SASH MEETING STILE	B&B	WOOD
7		SLIDING SASH TOP RAIL	B&B	WOOD
8		SLIDING SASH BOTTOM RAIL	B&B	WOOD
9		SASH INTERNAL RAIL	B&B	WOOD
10		FIXED SASH MEETING STILE	B&B	WOOD
11		FIXED SASH TOP RAIL	B&B	WOOD
12		FIXED SASH BOTTOM RAIL	B&B	WOOD
13		GLAZING STOP (SG)	B&B	WOOD
14		GLAZING STOP (IG)	B&B	WOOD
15		INTERLOCK ASTRAGAL	B&B	WOOD
16		LOCKING BOLTS BATTEN	B&B	WOOD
17		SEALING BATTEN	B&B	WOOD
18		BATTEN BLOCKING	B&B	WOOD
19		MULTI-POINT LOCK	G-U	
20	GU-934H	LOCKING BOLT	G-U	
21	K-17132	ADJUSTABLE INTERLOCK	G-U	
22	P1842	ALUMINUM THRESHOLD	G-U	ALUMINUM 6063-T6
23	P1659	ALUMINUM THRESHOLD RAIL	G-U	ALUMINUM 6063-T6
24	P1634	FIXED SASH BOTTOM RAIL	B&B	ALUMINUM 6063-T6
25	P1642	SHEET METAL	B&B	
26	P1846	MIDDLE PROFILE	B&B	
27	P1849	GUIDE PROFILE	B&B	
28	P1850	GUIDE BAR	B&B	
29	P1483	WEATHERSTRIP	G-U	EPDM 75 SHORE A
30	P743	WEATHERSTRIP	G-U	EPDM 75 SHORE A
31	P742	WEATHERSTRIP	G-U	EPDM 75 SHORE A
32	P1156	WEATHERSTRIP	G-U	EPDM 75 SHORE A
33	9216K	SELF-ADHESIVE GASKET	DEVENTER	SILICONE
34		FOAM BLOCK	B&B	FOAM
35	9-45753-01-0-6	SEAL BLOCK	B&B	
36	9-43065-00	SHIM THERMOSTEP	B&B	
37	9-40086-00	ANCHOR THERMOSTEP	B&B	
38		#8 X 1-3/4" STEEL SCREW	B&B	STEEL
39		#8 X 1" STEEL SCREW	B&B	STEEL
40		#12 X 3" STEEL SCREW	B&B	STEEL

PARTS LIST				
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
41		#12 X 4" STEEL SCREW	B&B	STEEL
42		#12 X 1-1/2" STEEL SCREW	B&B	STEEL
43		#1.1 X 1" STEEL SCREW	B&B	STEEL
44		CLIP		GALVANIZED STEEL
45	M24	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
46	HL33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
47	A33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL
48		GLASS STOP	B&B	WOOD (SEE NOTE 5)
49		GLASS STOP	B&B	WOOD (SEE NOTE 5)



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LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
B.O.M. AND GLAZING DETAILS

DRAWN:
R.L.

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08-01355B

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B

SCALE
NTS

DATE
07/24/12

SHEET
3 OF 10

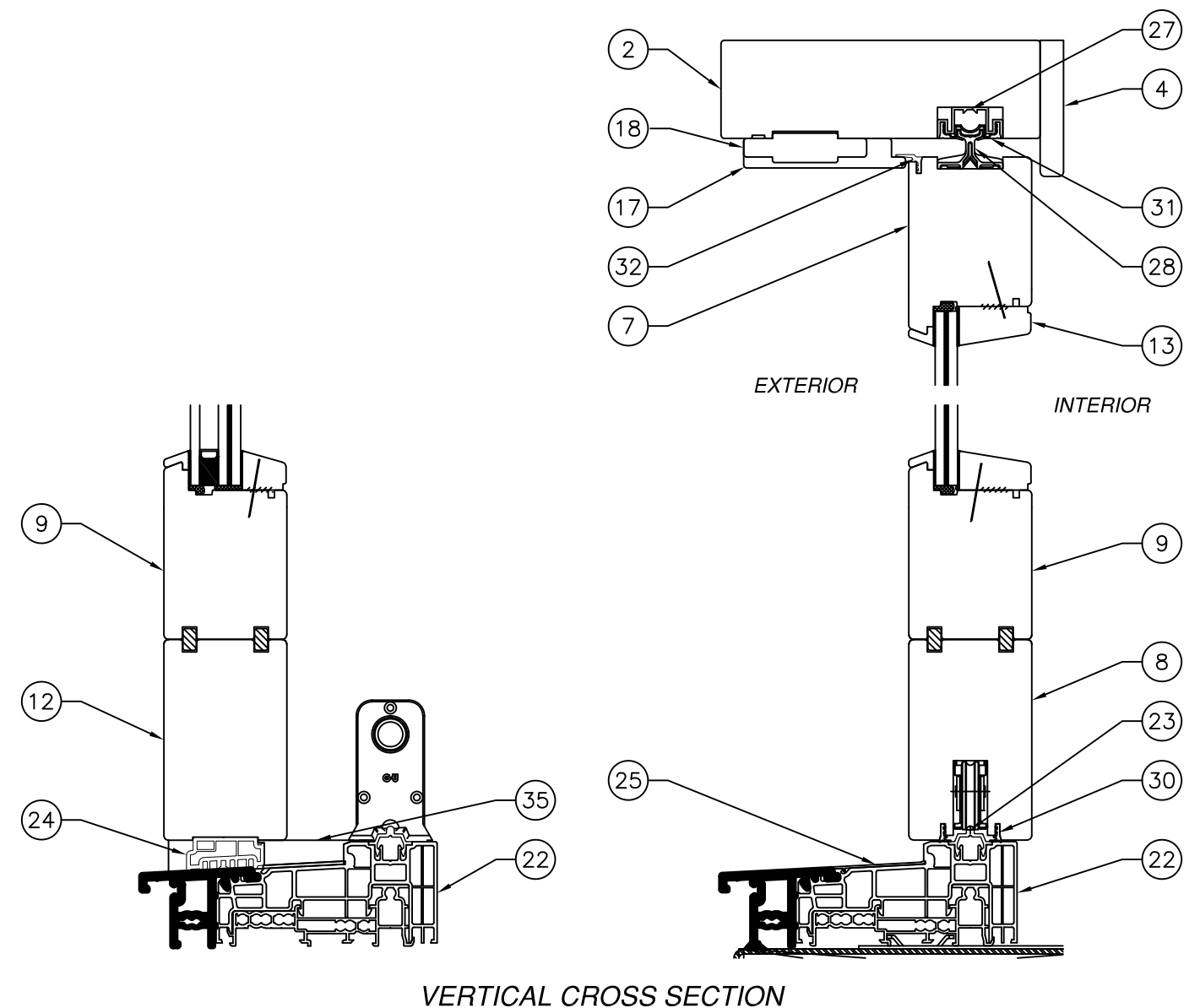
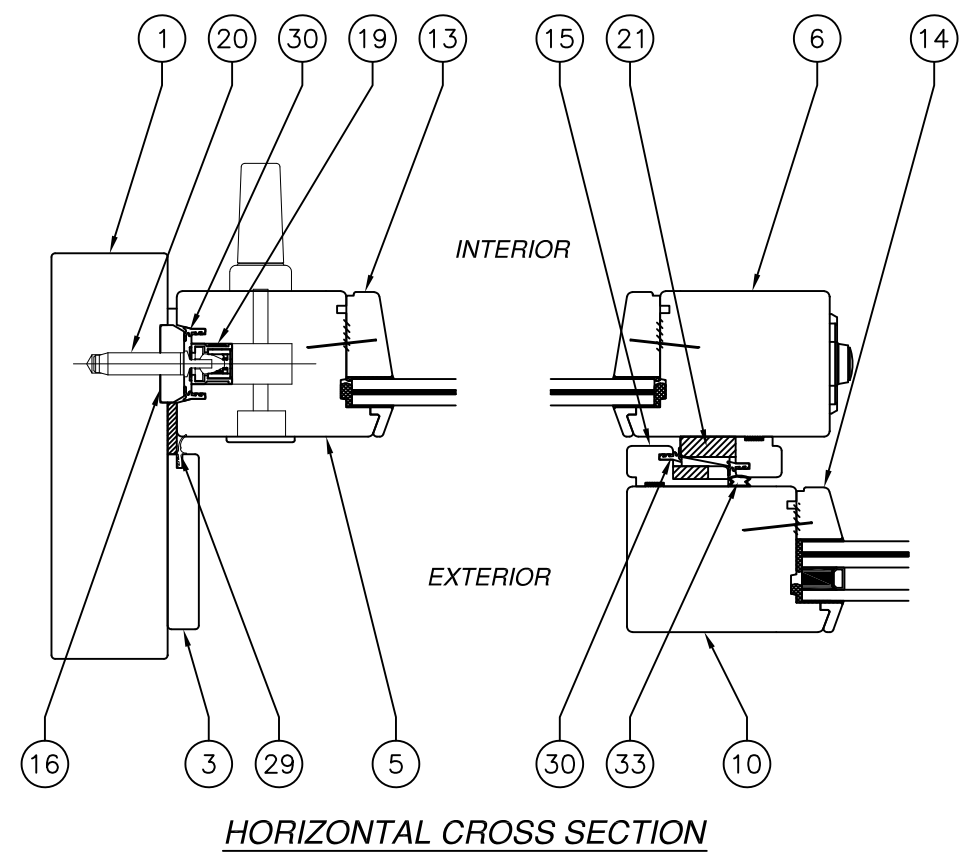
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SIGNED: 07/22/2026

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

Luis R. Lomas P.E.
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200 CONTINENTAL DRIVE, SUITE 401

NEWARK, DE 19713

LIFT & SLIDE ALUMINUM CLAD DOOR

IMPACT

CROSS SECTIONS

DRAWN: R.L.

DWG NO. 08-01355B

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SHEET 4 OF 10

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LUIS R. LOMAS

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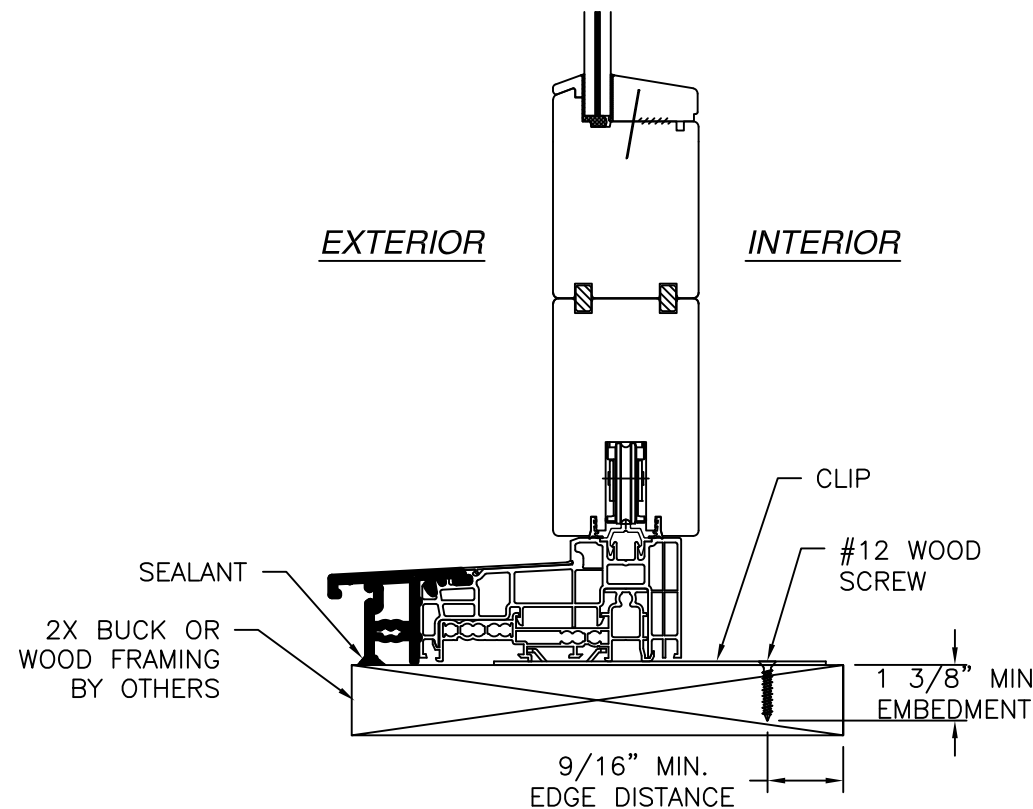
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FLORIDA

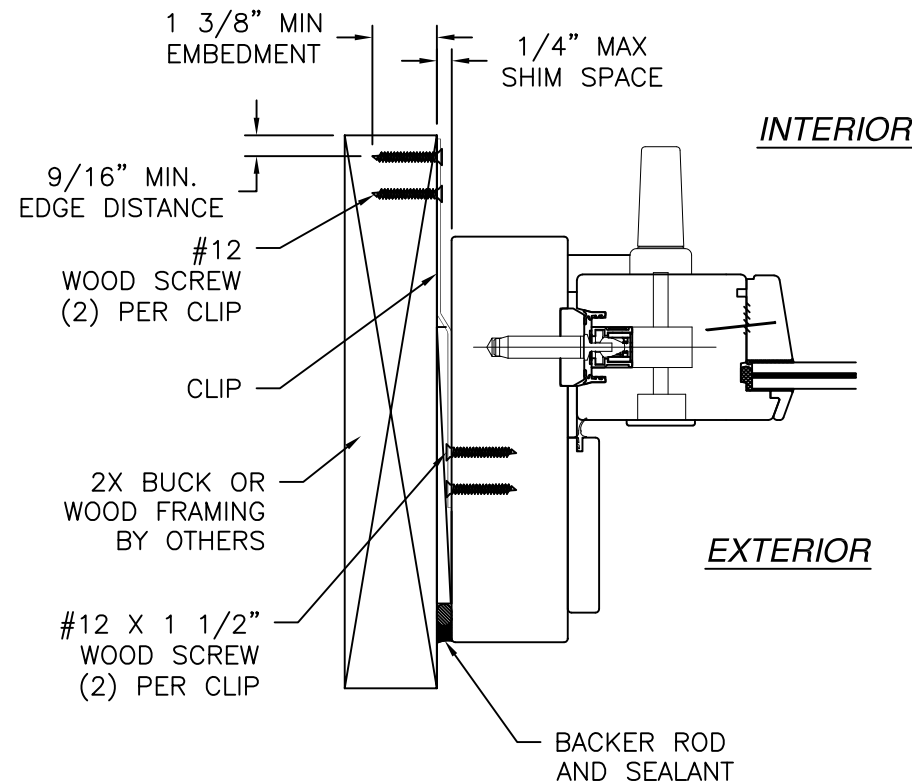
PROFESSIONAL ENGINEER

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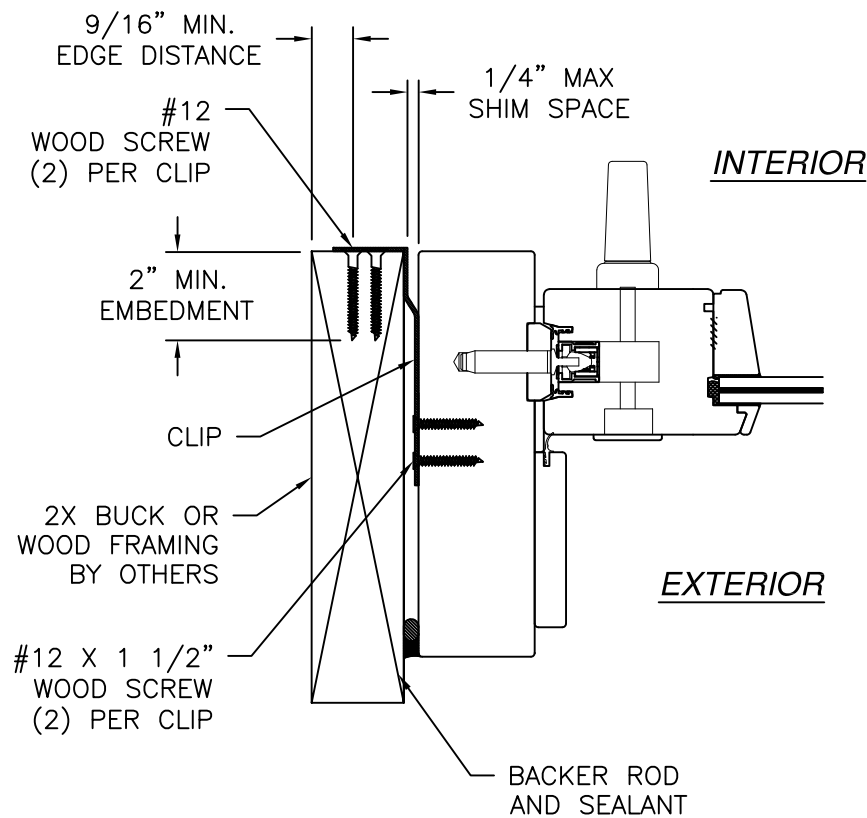
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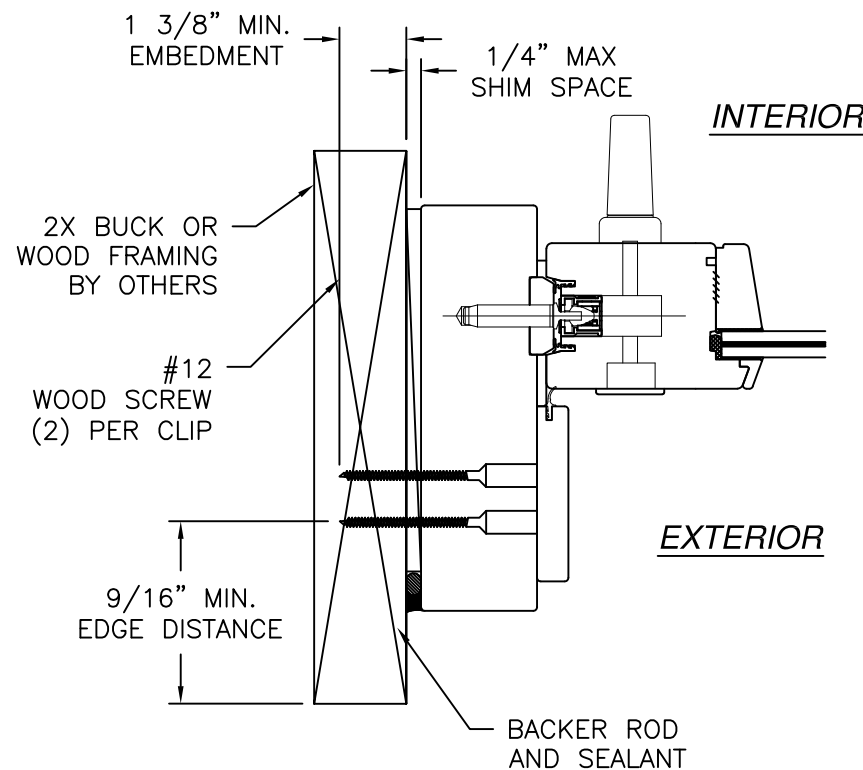
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



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



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



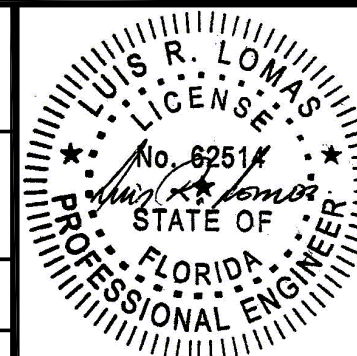
INSET FRAME INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION
JAMB SHOWN HEAD SIMILAR

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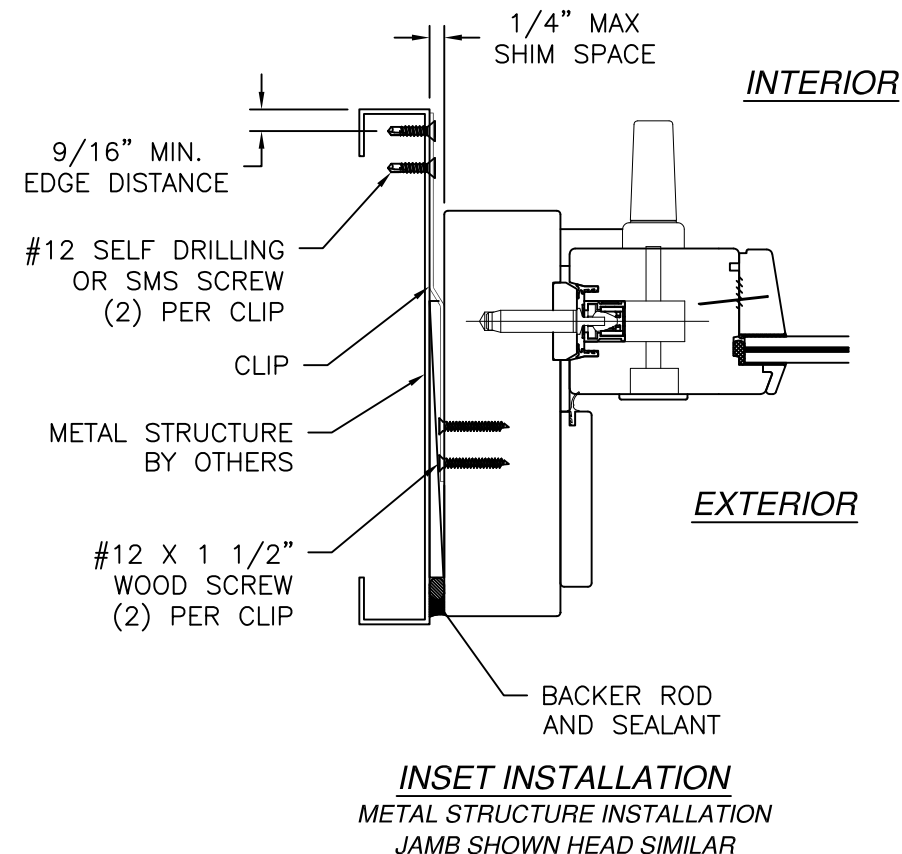
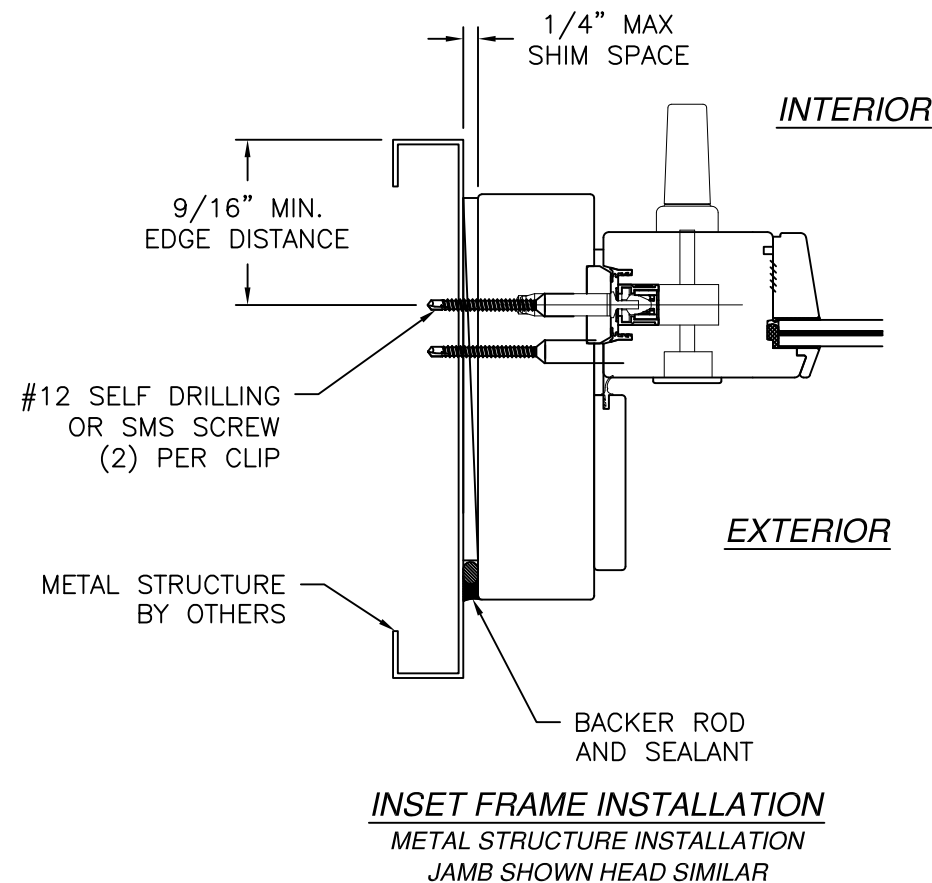
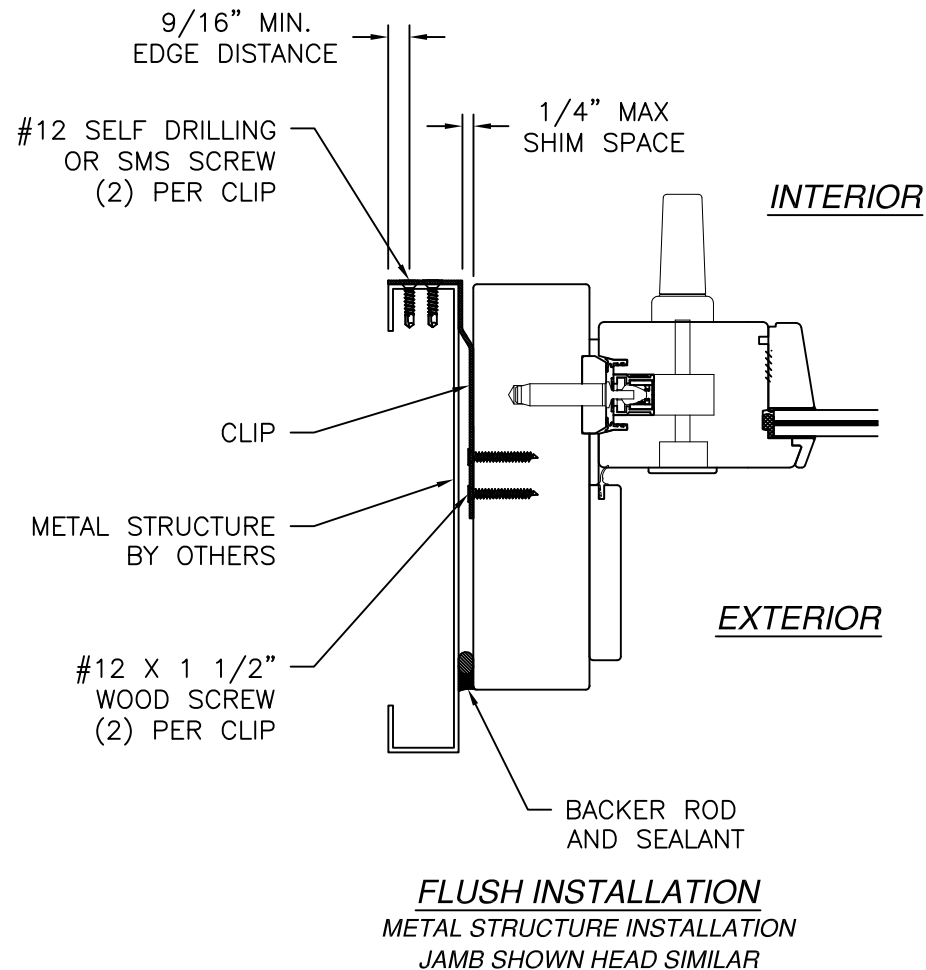
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LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01355B	REV B
SCALE NTS	DATE 07/24/12	SHEET 5 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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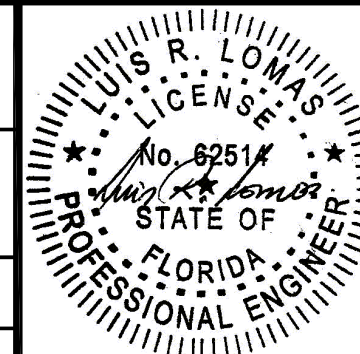


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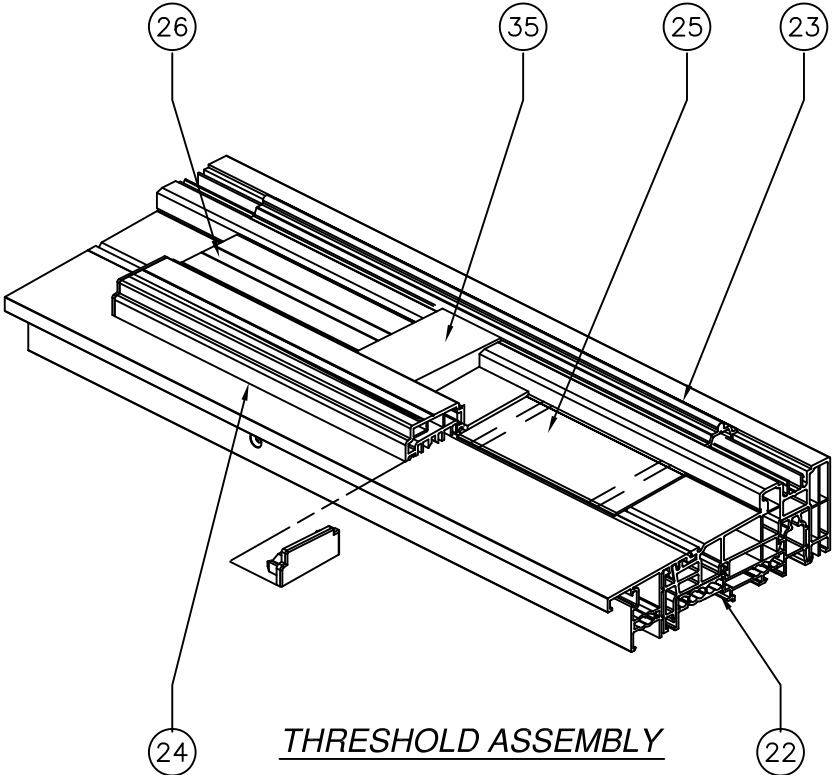
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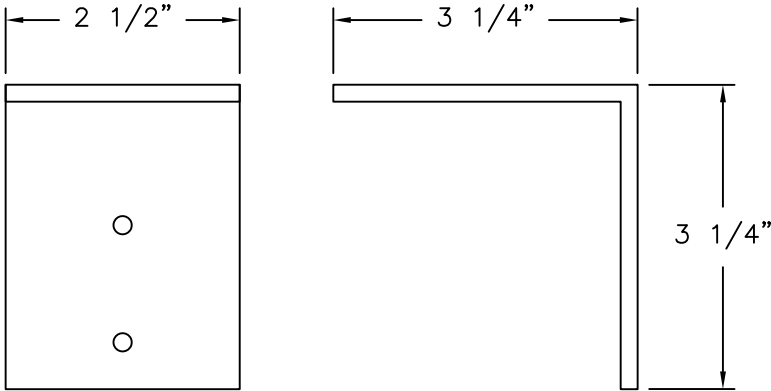


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THRESHOLD ASSEMBLY



(46) CLIP (HL33)
7 GA GALVANIZED STEEL

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LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
COMPONENTS

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REV B

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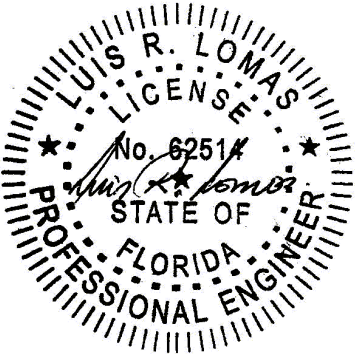
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SHEET 7 OF 10

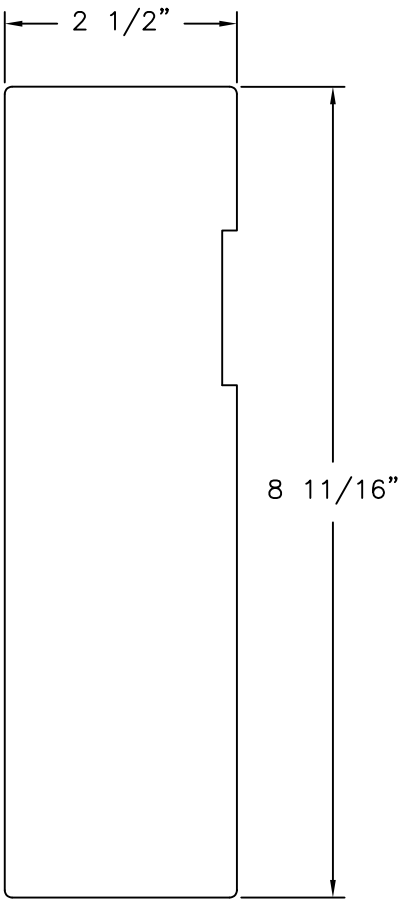
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

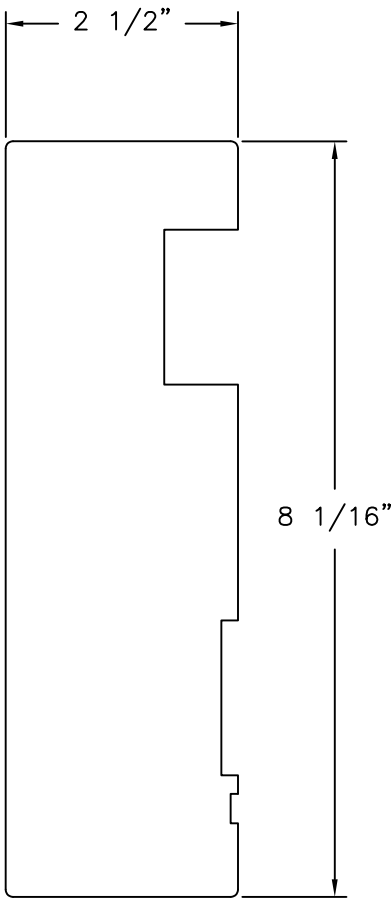
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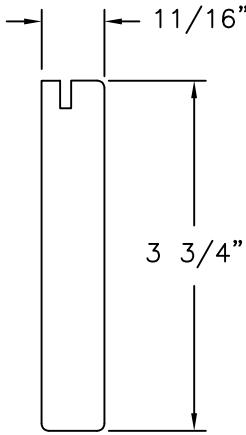
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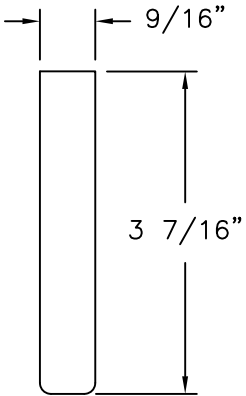
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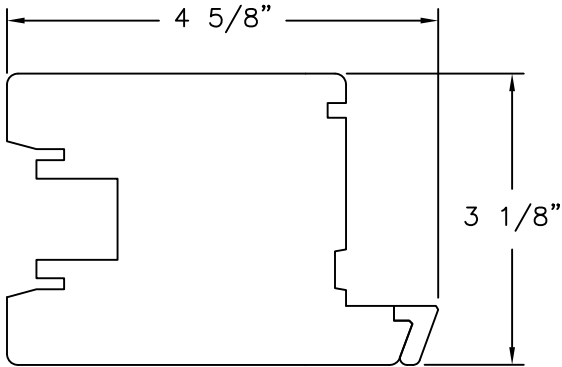
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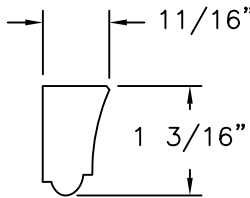
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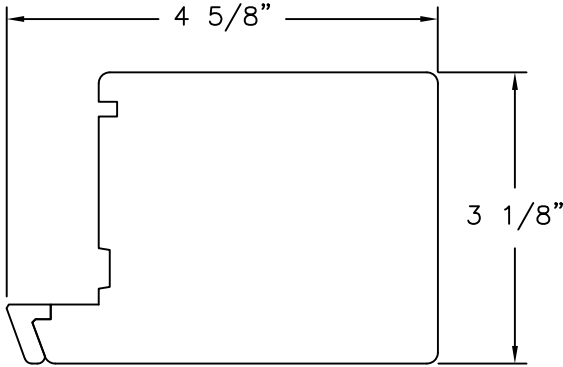
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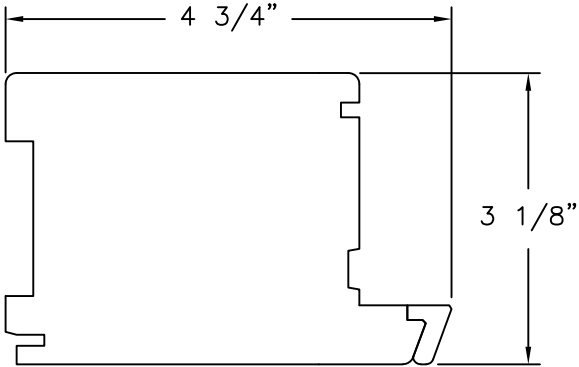
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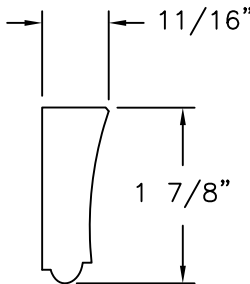
(49) GLASS STOP
WOOD SPECIFIC GRAVITY G.59 MIN



(6) SASH MEETING STILE
WOOD SPECIFIC GRAVITY G.45 MIN



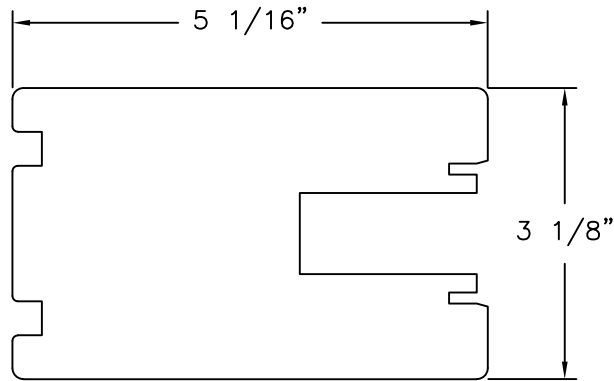
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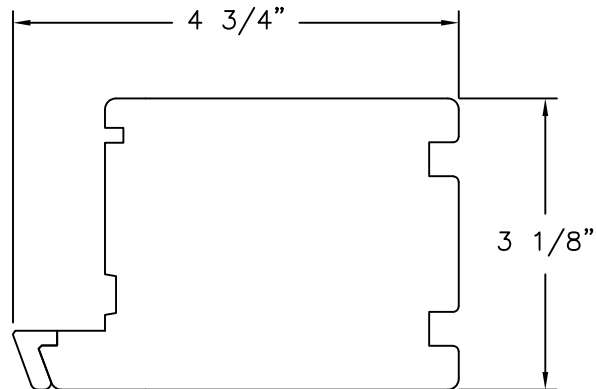
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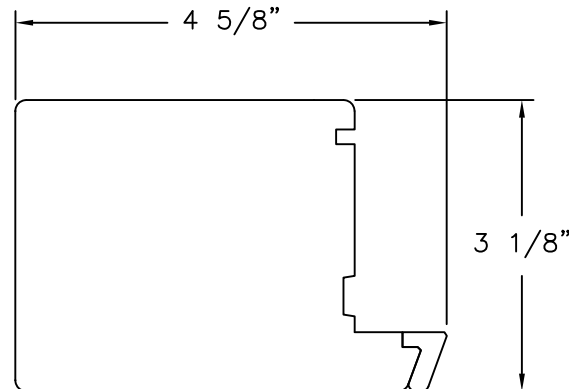
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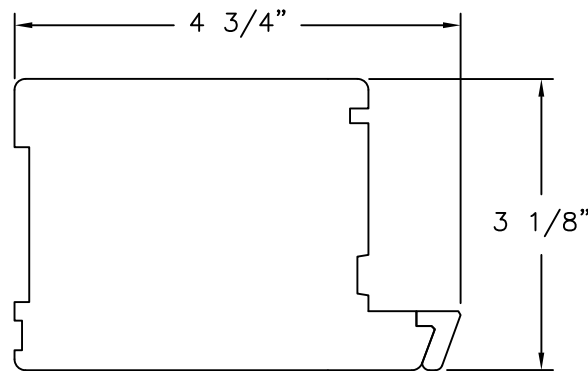
⑧ **SASH BOTTOM RAIL**
WOOD SPECIFIC GRAVITY G.45 MIN



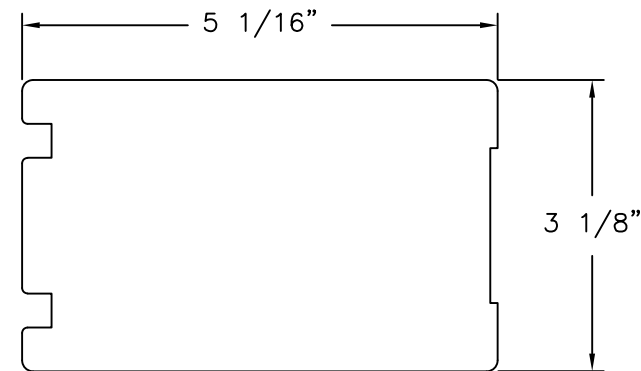
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WOOD SPECIFIC GRAVITY G.45 MIN



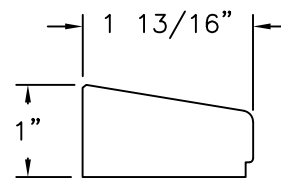
⑩ **SASH MEETING STILE**
WOOD SPECIFIC GRAVITY G.45 MIN



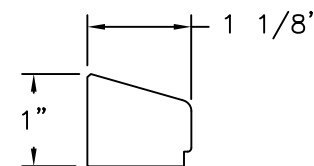
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WOOD SPECIFIC GRAVITY G.45 MIN



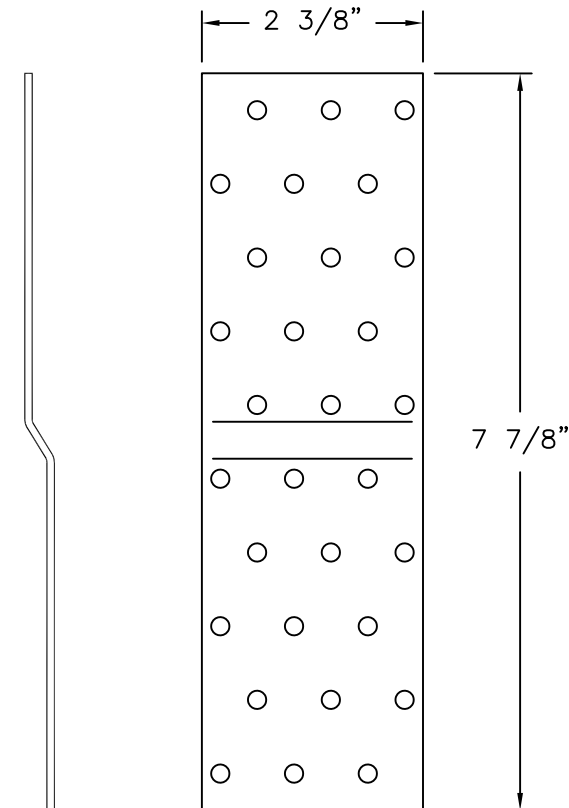
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WOOD SPECIFIC GRAVITY G.45 MIN



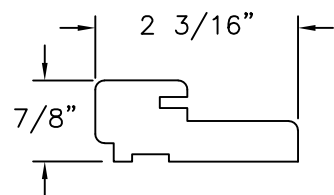
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WOOD SPECIFIC GRAVITY G.45 MIN



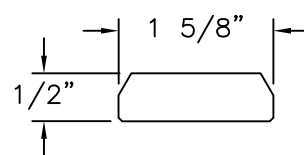
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WOOD SPECIFIC GRAVITY G.45 MIN



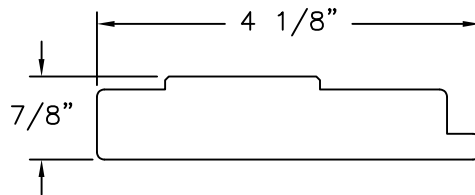
④④ **CLIP**
14GA GALVANIZED STEEL



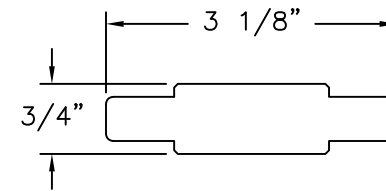
⑮ **INTERLOCK ASTRAGAL**
WOOD SPECIFIC GRAVITY G.45 MIN



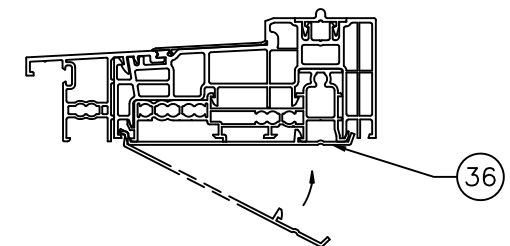
⑯ **LOCKING BOLTS BATTEN**
WOOD SPECIFIC GRAVITY G.45 MIN



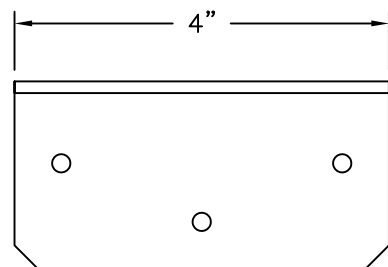
⑰ **SEALING BATTEN**
WOOD SPECIFIC GRAVITY G.45 MIN



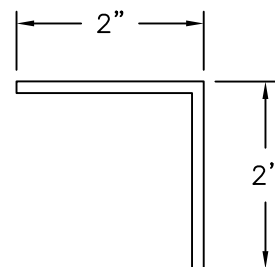
⑱ **BATTEN BLOCKING**
WOOD SPECIFIC GRAVITY G.45 MIN



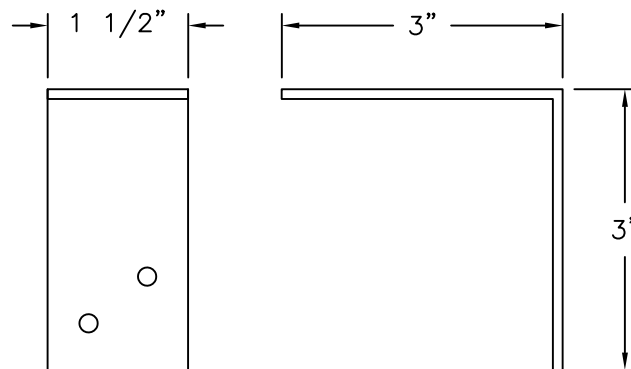
③⑥ **SHIM THERMOSTEP**
ALUMINUM 6063-T6
SIGNED: 07/22/2026



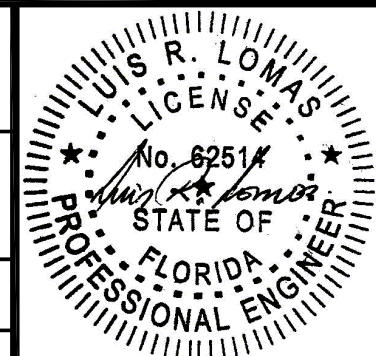
④⑤ **CLIP (M24)**
12 GA GALVANIZED STEEL



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



BILDAU & BUSSMANN NORTH AMERICA INC. 200 CONTINENTAL DRIVE, SUITE 401 NEWARK, DE 19713		
LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT COMPONENTS		
DRAWN: R.L.	DWG NO. 08-01355B	REV B
SCALE NTS	DATE 07/24/12	SHEET 8 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



Luis R. Lomas P.E.
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