

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.
18. SIMULATED DIVIDED LITE MUNTINS ARE OPTIONAL.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
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2	ELEVATION
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BILDAU & BUSSMANN NORTH AMERICA INC.
200 CONTINENTAL DRIVE, SUITE 401
NEWARK, DE 19713

LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
INSTALLATION DETAILS

DRAWN:
R.L.

DWG NO.
08-01843B

REV
B

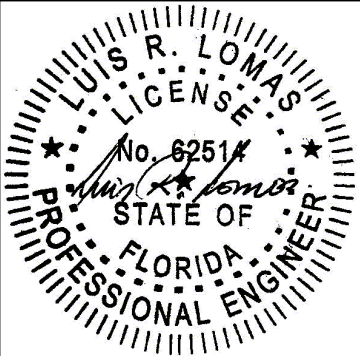
SCALE NTS

DATE 07/24/12

SHEET 1 OF 10

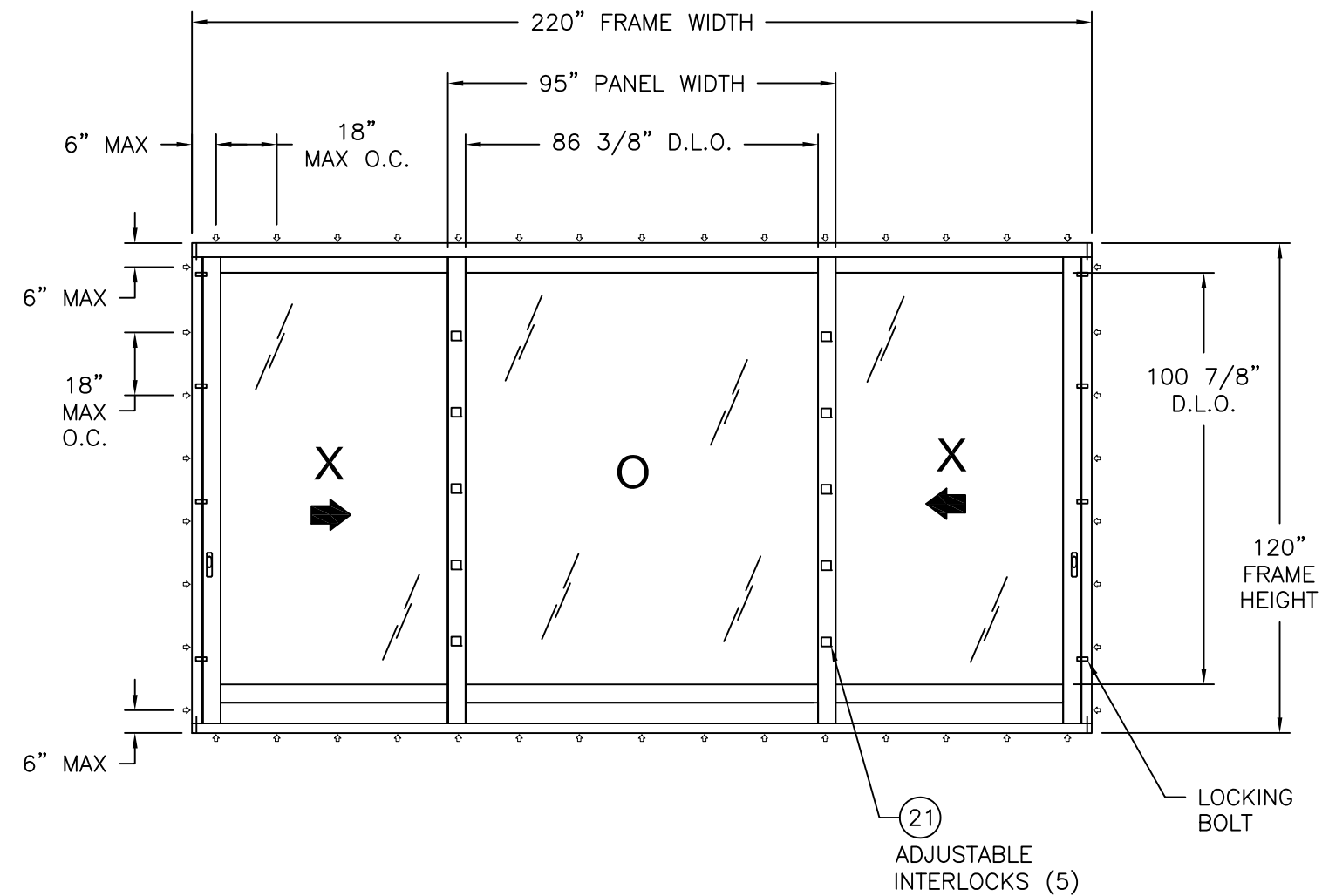
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 07/22/2026



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

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LIFT & SLIDE ALUMINUM CLAD DOOR
INTERIOR VIEW

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

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ

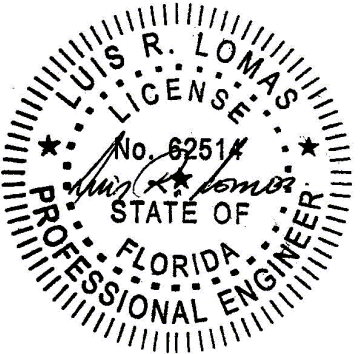
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200 CONTINENTAL DRIVE, SUITE 401
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LIFT & SLIDE ALUMINUM CLAD DOOR
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INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-01843B	REV B
SCALE NTS	DATE 07/24/12	SHEET 2 OF 10

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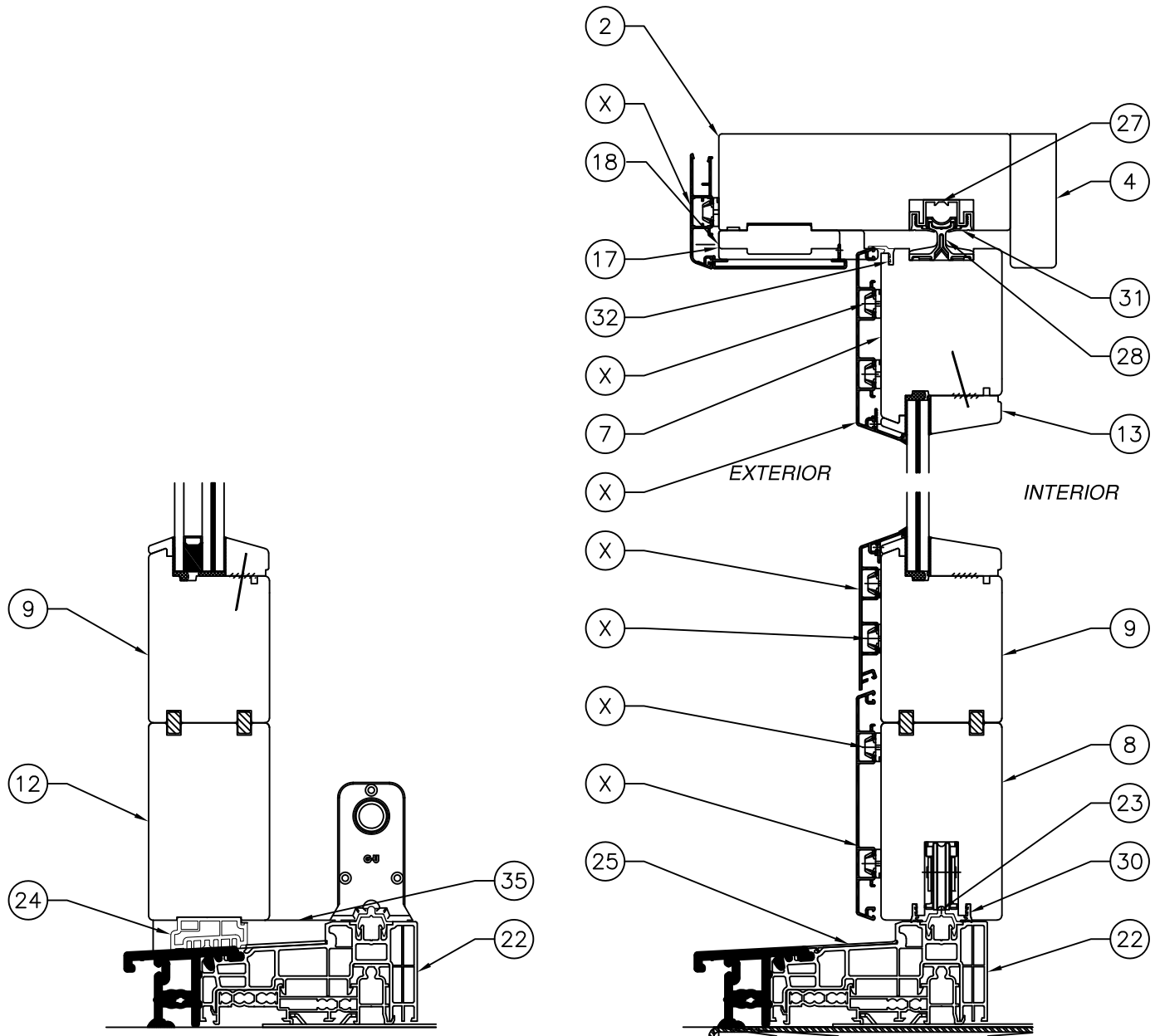
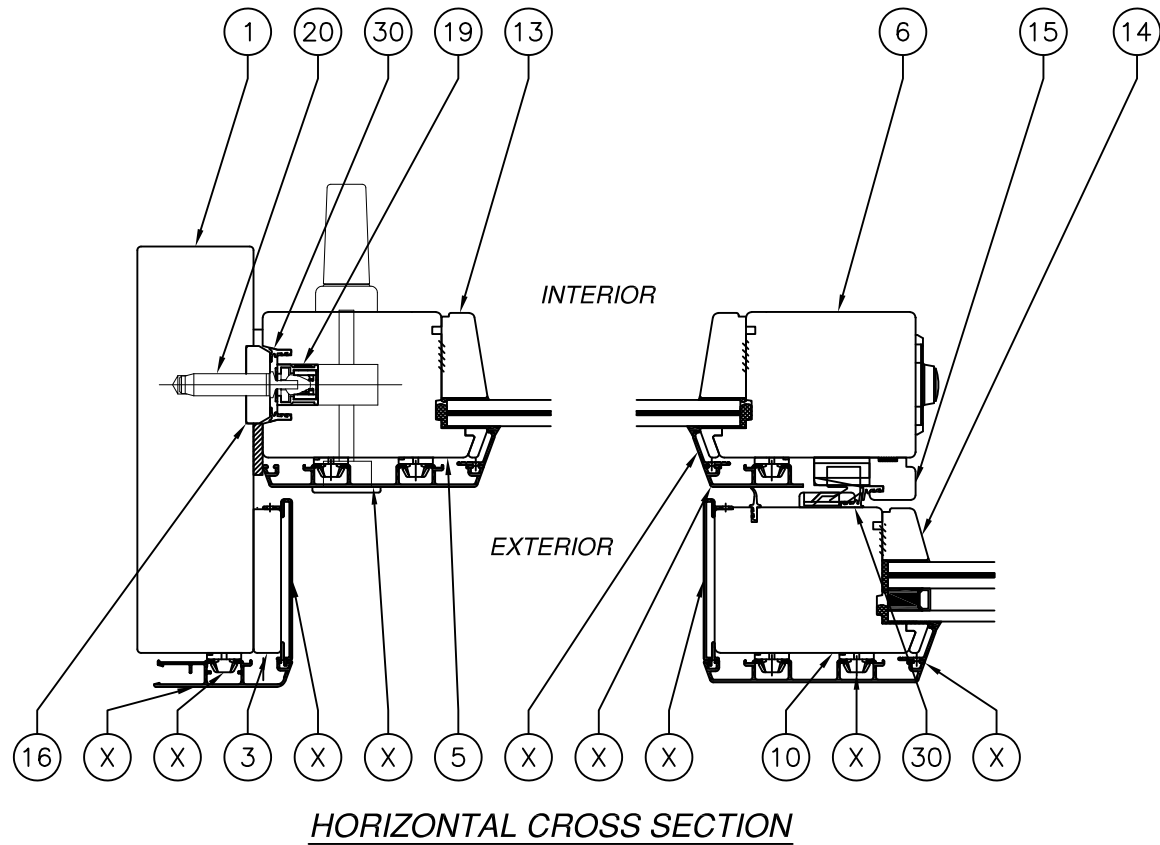
PARTS LIST										REVISIONS			
NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL						REV	DESCRIPTION	DATE	APPROVED
										B	REVISED MANUFACTURER ADDRESS	07/22/2026	R.L.
1		FRAME JAMB	B&B	WOOD, SEE NOTE 5	PARTS LIST								
2		FRAME HEAD	B&B	WOOD, SEE NOTE 5									
3		FRAME SEALING BATTEN	B&B	WOOD, SEE NOTE 5	NO.	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL				
4		FRAME FRONT BATTEN	B&B	WOOD, SEE NOTE 5	41		#12 X 4" STEEL SCREW	B&B	STEEL				
5		SLIDING SASH LOCK STILE	B&B	WOOD, SEE NOTE 5	42		#12 X 1-1/2" STEEL SCREW	B&B	STEEL				
6		SLIDING SASH MEETING STILE	B&B	WOOD, SEE NOTE 5	43		#1.1 X 1" STEEL SCREW	B&B	STEEL				
7		SLIDING SASH TOP RAIL	B&B	WOOD, SEE NOTE 5	44		CLIP		GALVANIZED STEEL				
8		SLIDING SASH BOTTOM RAIL	B&B	WOOD, SEE NOTE 5	45	M24	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL				
9		SASH INTERNAL RAIL	B&B	WOOD, SEE NOTE 5	46	HL33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL				
10		FIXED SASH MEETING STILE	B&B	WOOD, SEE NOTE 5	47	A33	CLIP (ALTERNATE)	STRONG TIE	GALVANIZED STEEL				
11		FIXED SASH TOP RAIL	B&B	WOOD, SEE NOTE 5	48		GLASS STOP	B&B	WOOD (SEE NOTE 5)				
12		FIXED SASH BOTTOM RAIL	B&B	WOOD, SEE NOTE 5	49		GLASS STOP	B&B	WOOD (SEE NOTE 5)				
13		GLAZING STOP (SG)	B&B	WOOD, SEE NOTE 5	50	BR 75.14	FRAME PROFILE	GUTMANN	ALUMINUM 6063-T5				
14		GLAZING STOP (IG)	B&B	WOOD, SEE NOTE 5	51	ZP 7.18	ADDITIONAL PROFILE	GUTMANN	ALUMINUM 6063-T5				
15		INTERLOCK ASTRAGAL	B&B	WOOD, SEE NOTE 5	52	SH 96.10	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
16		LOCKING BOLTS BATTEN	B&B	WOOD, SEE NOTE 5	53	SH 100.12	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
17		SEALING BATTEN	B&B	WOOD, SEE NOTE 5	54	SH 110.12	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
18		BATTEN BLOCKING	B&B	WOOD, SEE NOTE 5	55	SH 120.12	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
19		MULTI-POINT LOCK	G-U		56	SH 132.12	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
20	GU-934H	LOCKING BOLT	G-U		57	SH 150.12	MULLION PROFILE	GUTMANN	ALUMINUM 6063-T5				
21	K-17132	ADJUSTABLE INTERLOCK	G-U		58	EL 60.12	INSERT PROFILE	GUTMANN	ALUMINUM 6063-T5				
22	P1842	ALUMINUM THRESHOLD	G-U	ALUMINUM 6063-T6	59	Z 35	DRIP PROFILE	GUTMANN	ALUMINUM 6063-T5				
23	P1659	ALUMINUM THRESHOLD RAIL	G-U	ALUMINUM 6063-T6	60	HA 3024	GASKET	GUTMANN	EPDM 75 SHORE A				
24	P1634	FIXED SASH BOTTOM RAIL	B&B	ALUMINUM 6063-T6	61	DK2	PIVOT CLIP HOLDER						
25	P1642	SHEET METAL	B&B		62	DK4	PIVOT CLIP HOLDER						
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									

BILDAU & BUSSMANN NORTH AMERICA INC. 200 CONTINENTAL DRIVE, SUITE 401 NEWARK, DE 19713		
LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT B.O.M. AND GLAZING DETAILS		
DRAWN: R.L.	DWG NO. 08-01843B	REV B
SCALE NTS	DATE 07/24/12	SHEET 3 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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LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT CROSS SECTIONS			
DRAWN: R.L.	DWG NO. 08-01843B	REV B	
SCALE NTS	DATE 07/24/12	SHEET 4 OF 10	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			

LUIS R. LOMAS

LICENSE

No. 62514

STATE OF

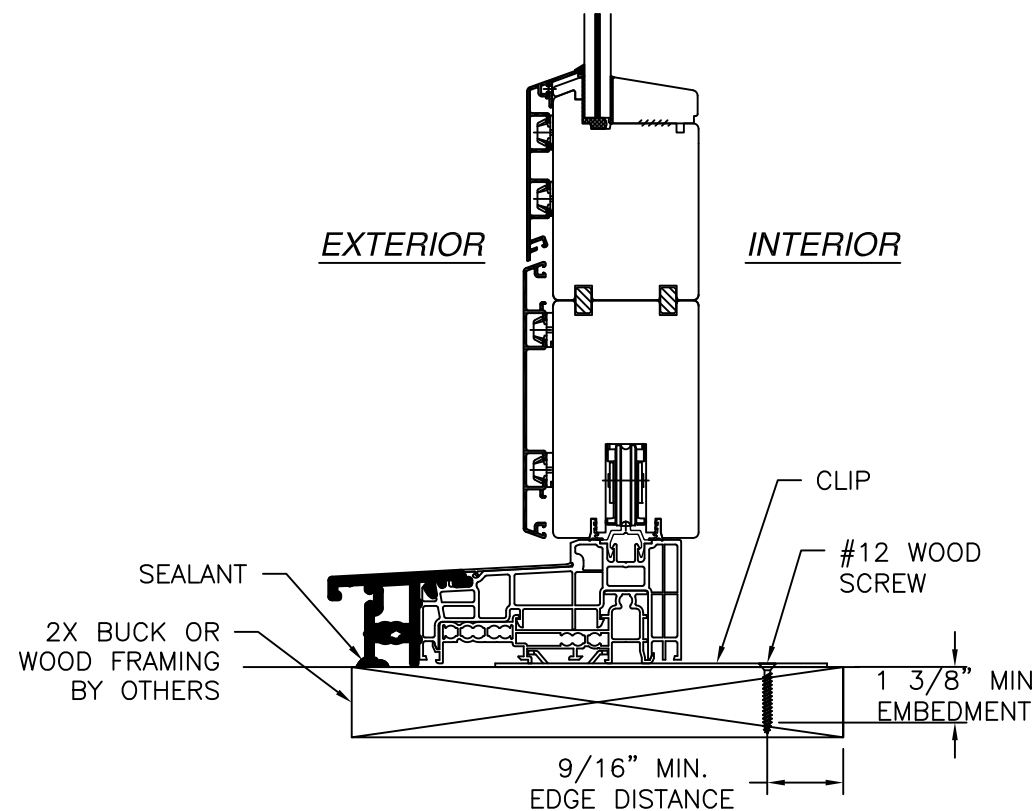
FLORIDA

PROFESSIONAL ENGINEER

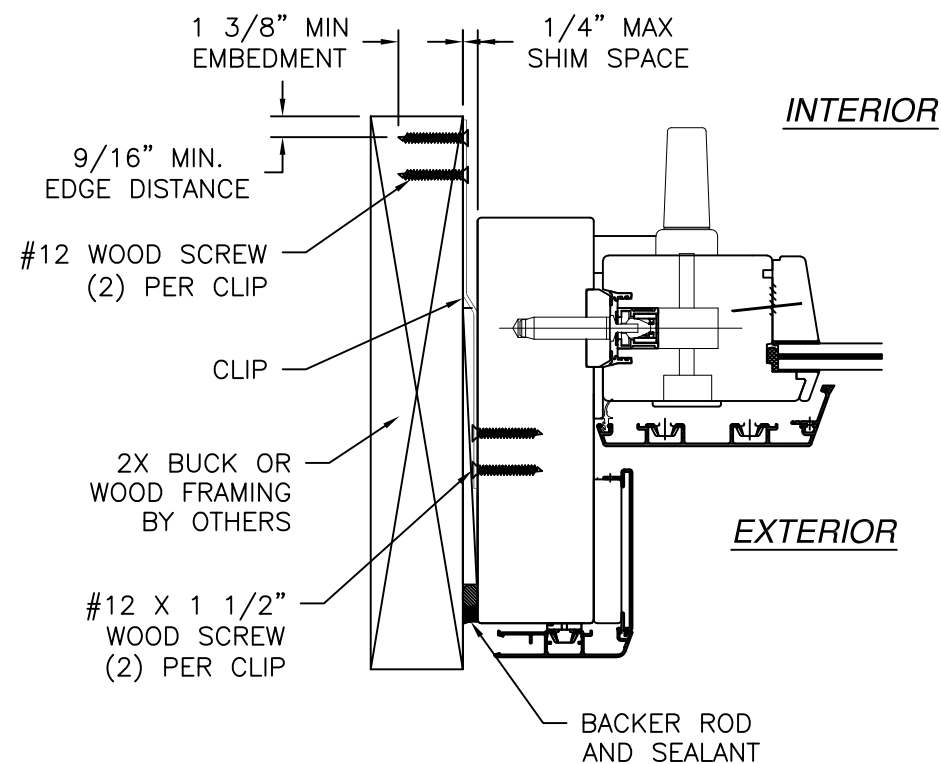
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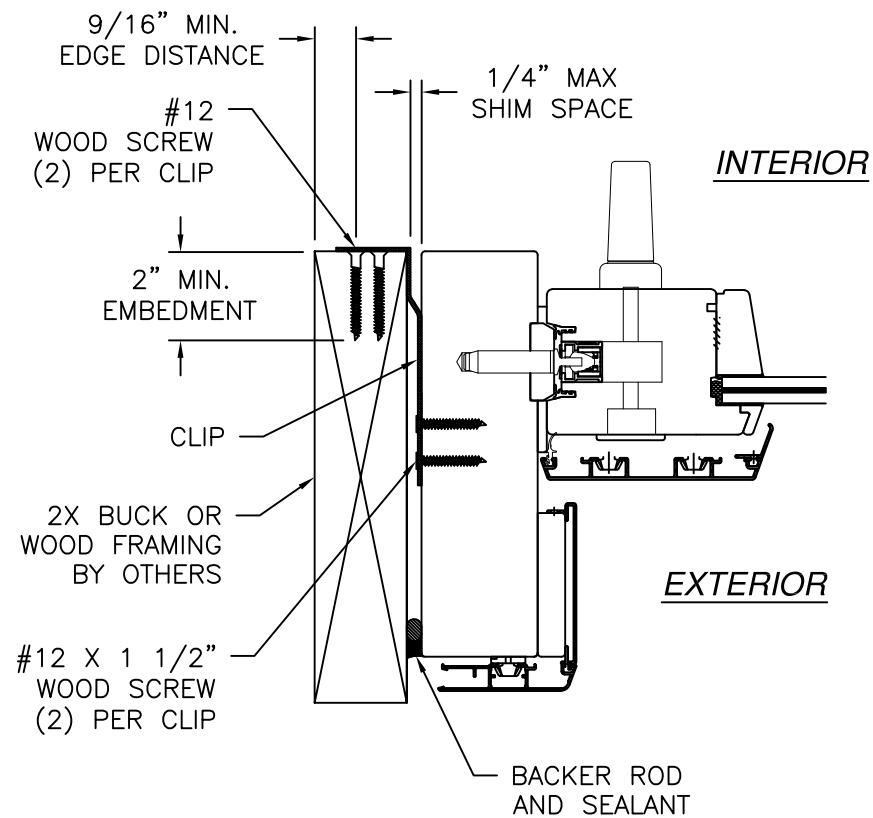
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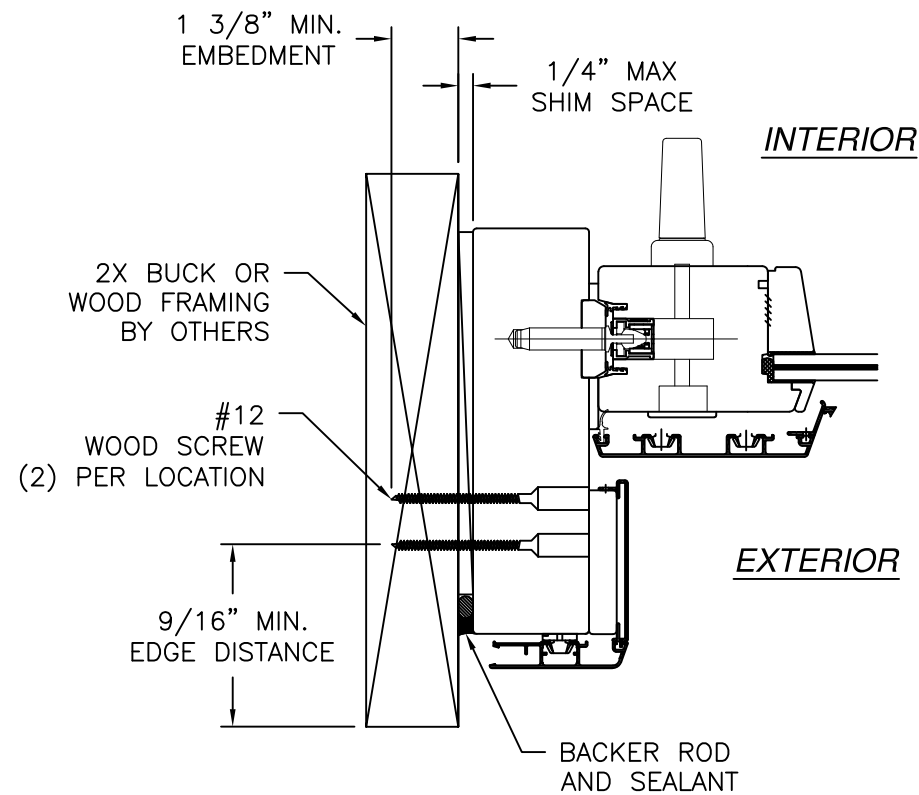
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



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



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

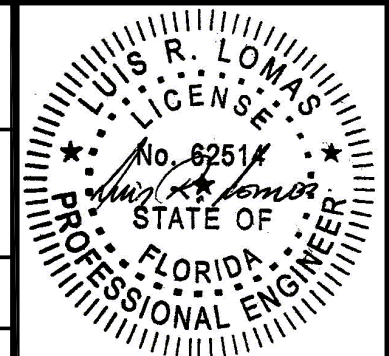


INSET FRAME INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION
JAMB SHOWN HEAD SIMILAR

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.

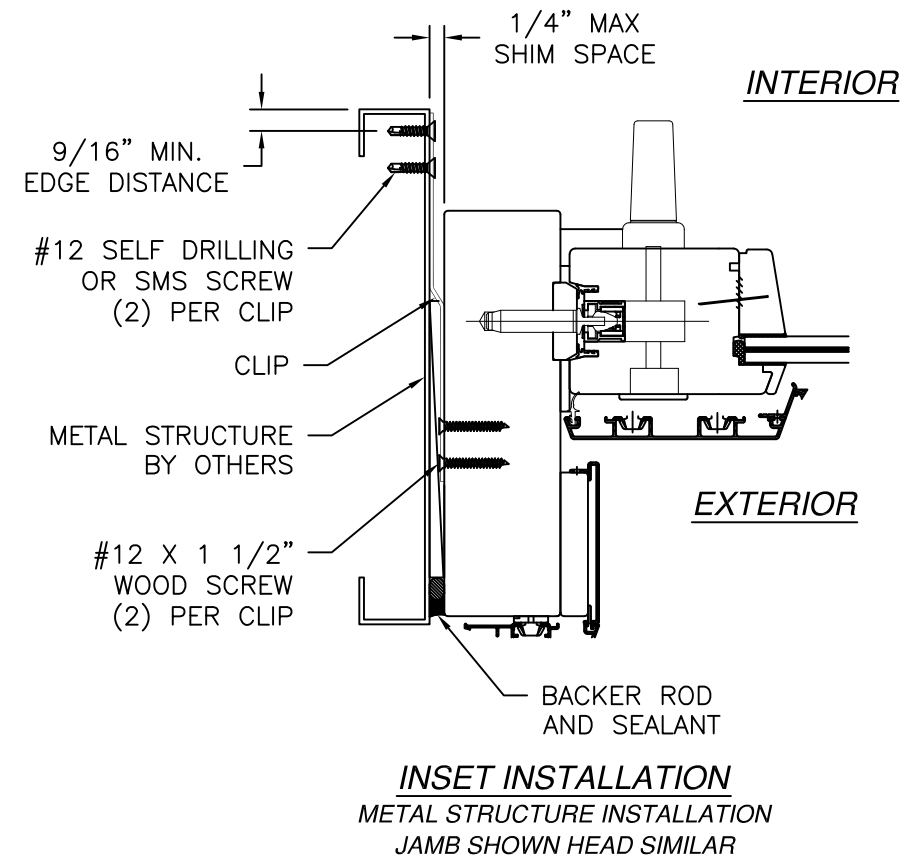
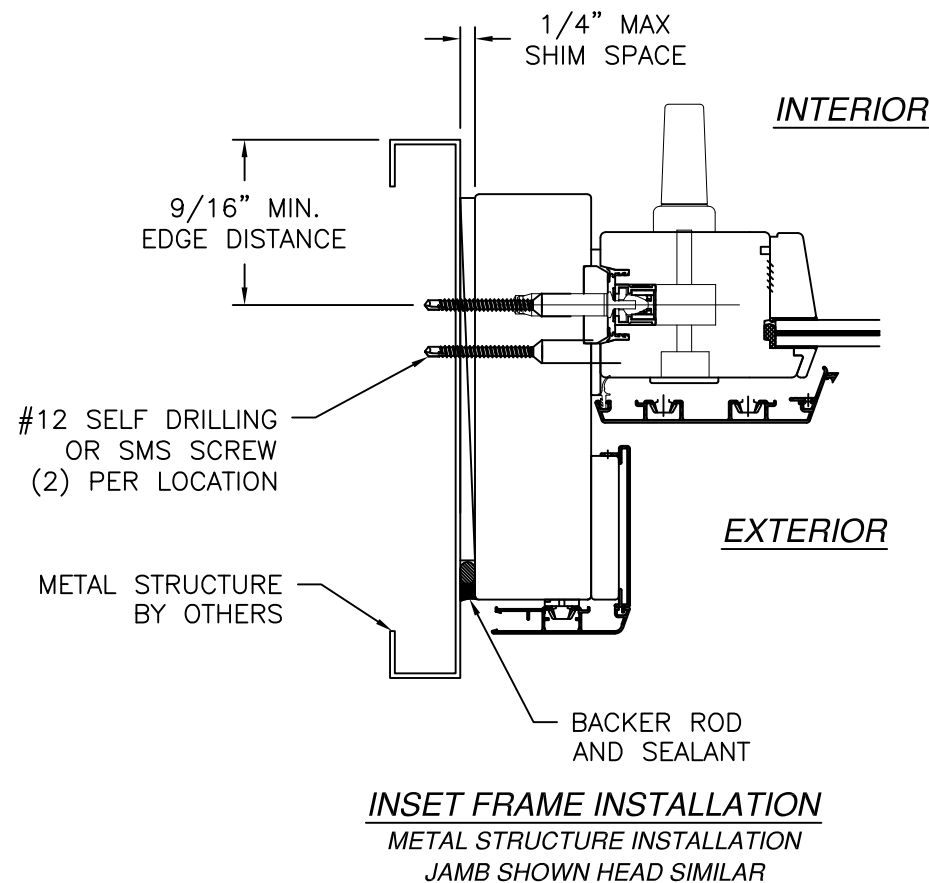
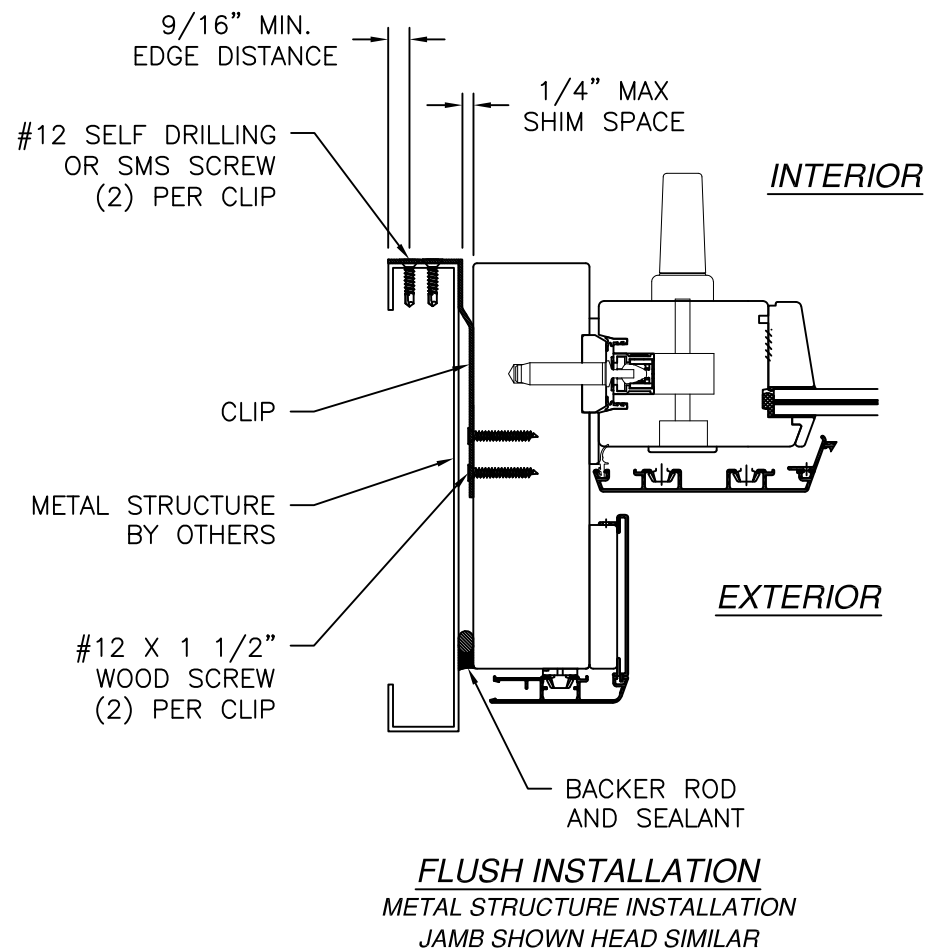
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LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-01843B	REV B
SCALE NTS	DATE 07/24/12	SHEET 5 OF 10
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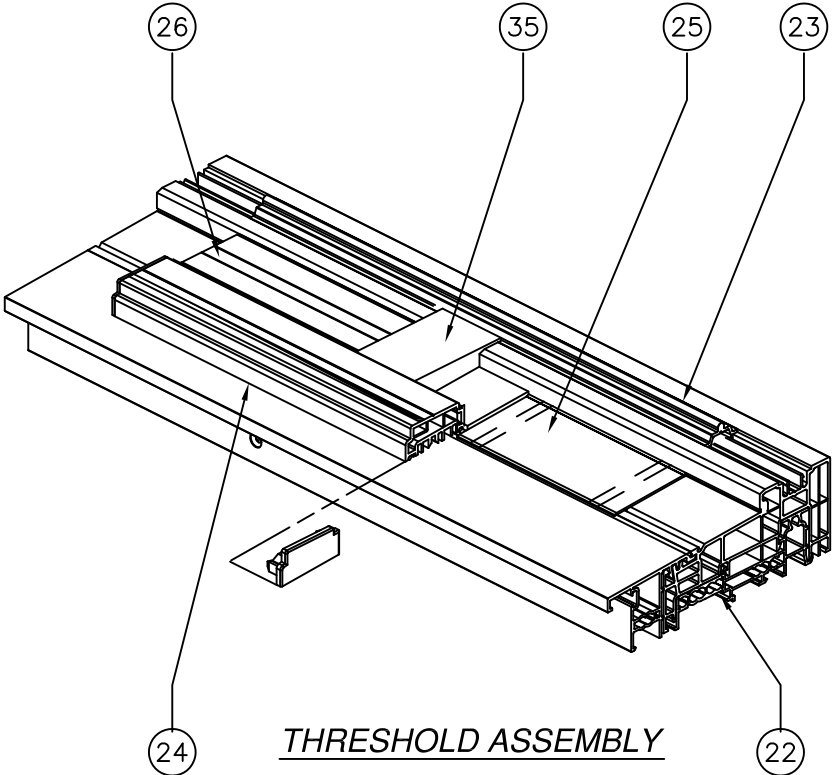
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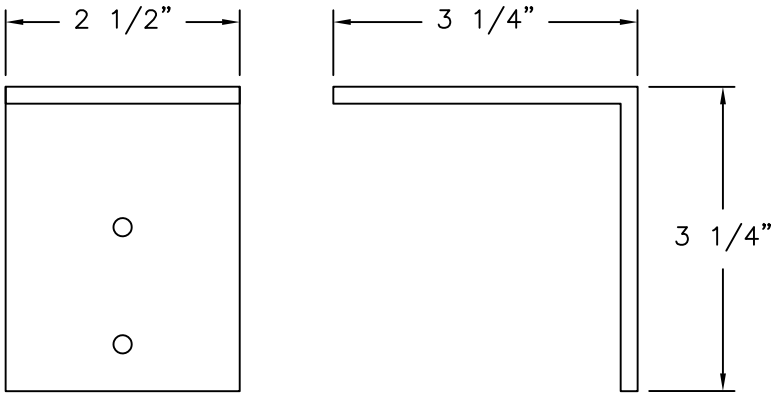
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THRESHOLD ASSEMBLY



CLIP (HL33)
7 GA GALVANIZED STEEL

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200 CONTINENTAL DRIVE, SUITE 401
NEWARK, DE 19713

LIFT & SLIDE ALUMINUM CLAD DOOR
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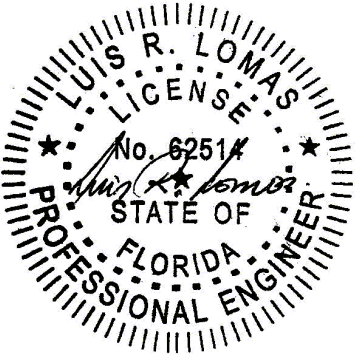
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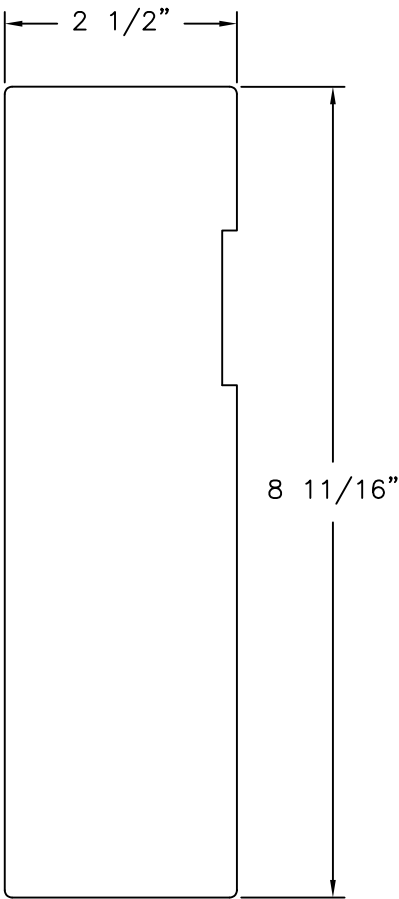
SHEET
7 OF 10

L. ROBERTO LOMAS P.E.

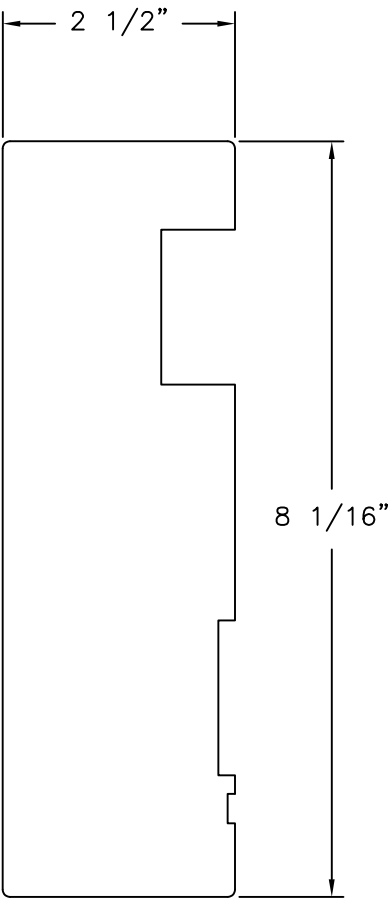
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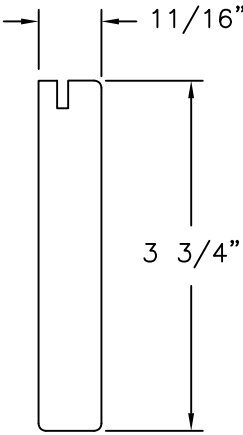
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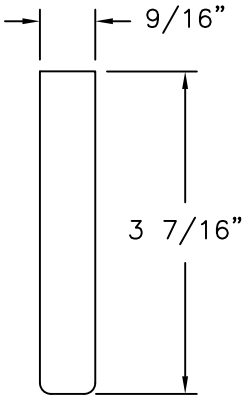
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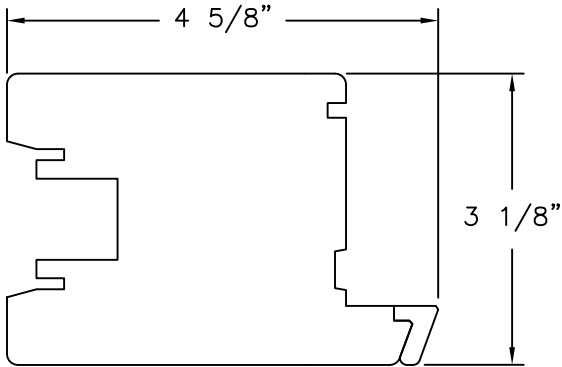
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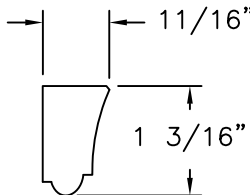
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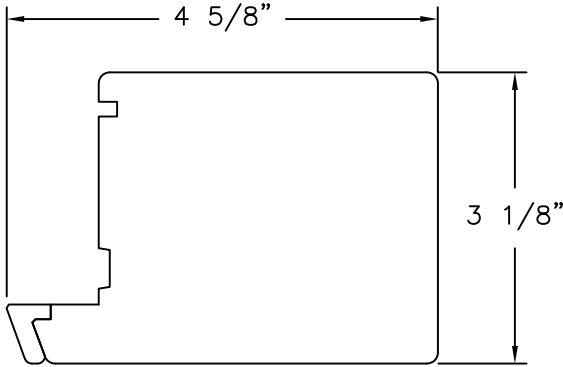
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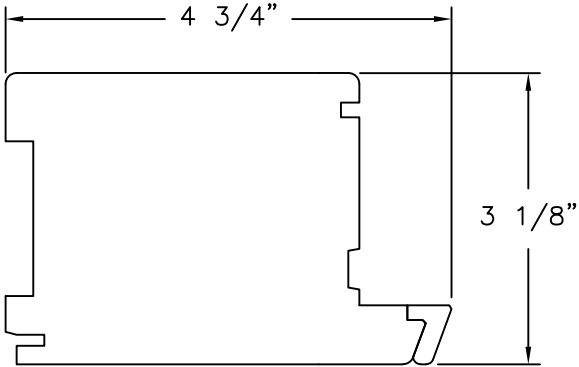
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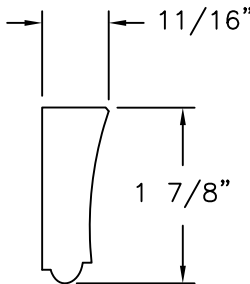
GLASS STOP
WOOD SPECIFIC GRAVITY G.59 MIN



SASH MEETING STILE
WOOD SPECIFIC GRAVITY G.45 MIN



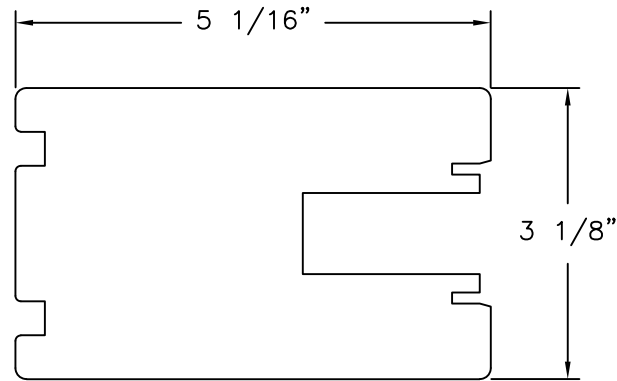
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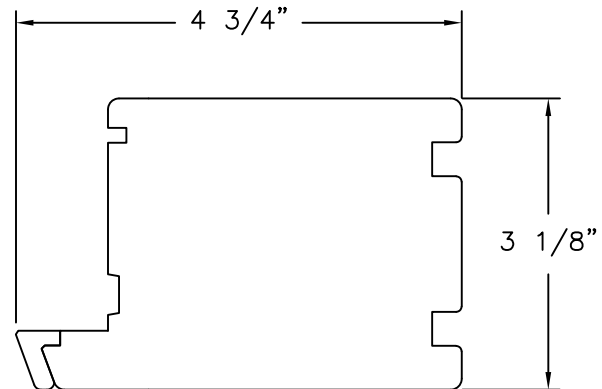
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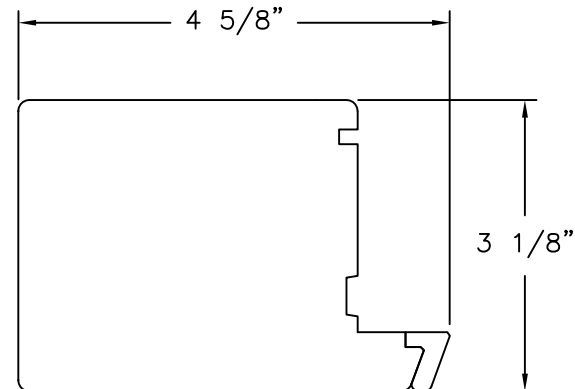
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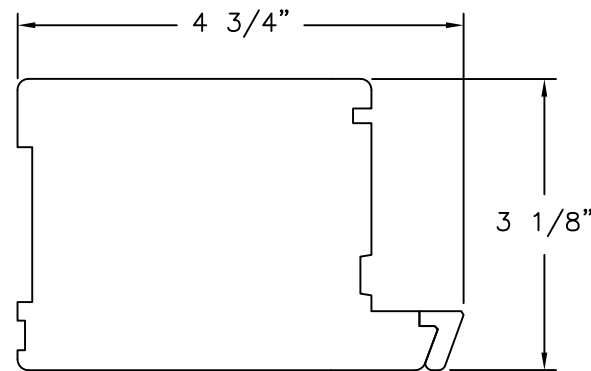
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WOOD SPECIFIC GRAVITY G.45 MIN



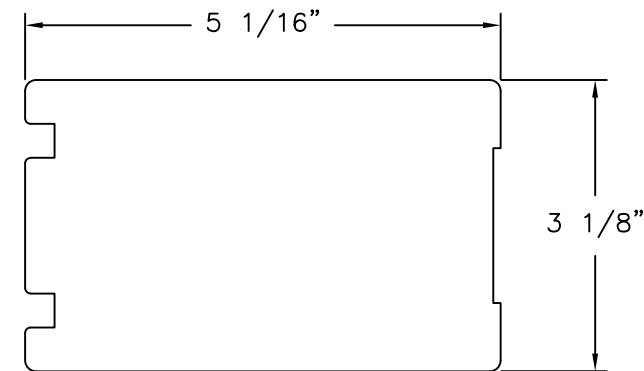
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WOOD SPECIFIC GRAVITY G.45 MIN



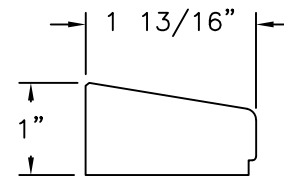
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WOOD SPECIFIC GRAVITY G.45 MIN



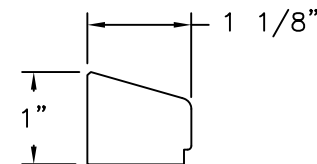
⑪ **SASH TOP RAIL**
WOOD SPECIFIC GRAVITY G.45 MIN



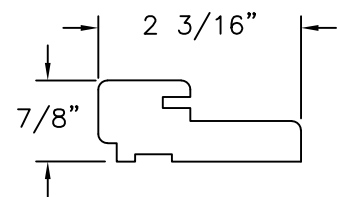
⑫ **SASH BOTTOM RAIL**
WOOD SPECIFIC GRAVITY G.45 MIN



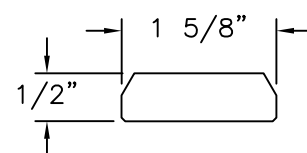
⑬ **GLASS STOP**
WOOD SPECIFIC GRAVITY G.45 MIN



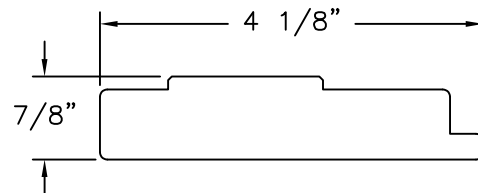
⑭ **GLASS STOP**
WOOD SPECIFIC GRAVITY G.45 MIN



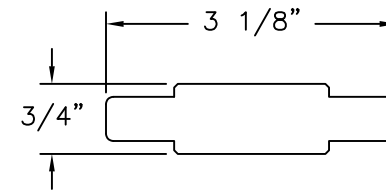
⑮ **INTERLOCK ASTRAGAL**
WOOD SPECIFIC GRAVITY G.45 MIN



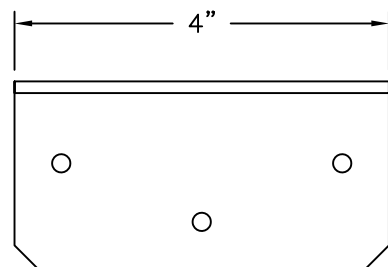
⑯ **LOCKING BOLTS BATTEN**
WOOD SPECIFIC GRAVITY G.45 MIN



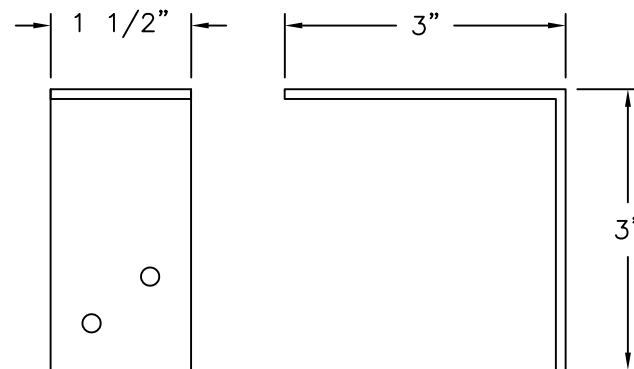
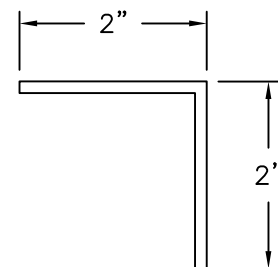
⑰ **SEALING BATTEN**
WOOD SPECIFIC GRAVITY G.45 MIN



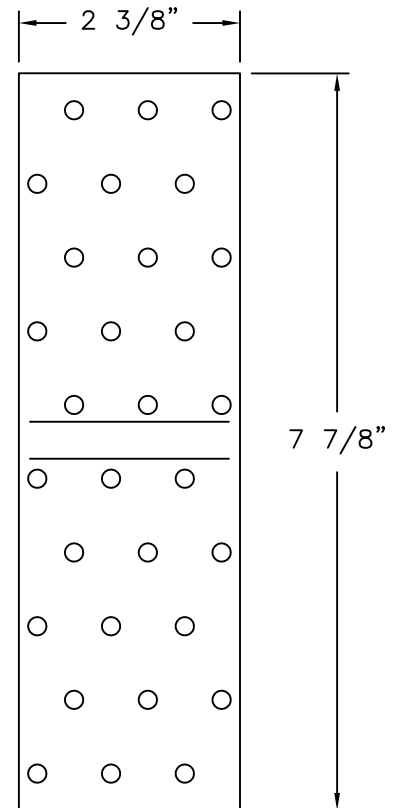
⑱ **BATTEN BLOCKING**
WOOD SPECIFIC GRAVITY G.45 MIN



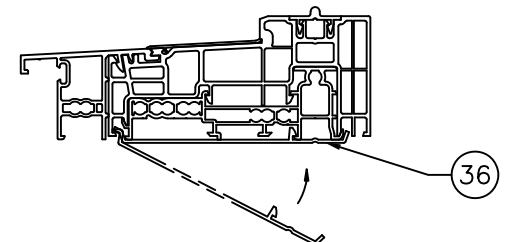
④⑤ **CLIP (M24)**
12 GA GALVANIZED STEEL



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



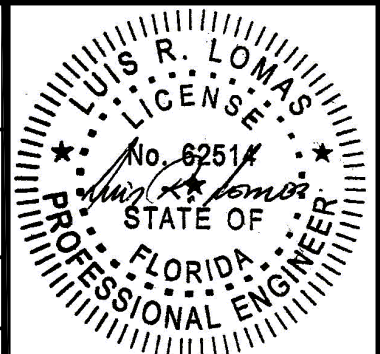
④④ **CLIP**
14GA GALVANIZED STEEL



③⑥ **SHIM THERMOSTEP**
ALUMINUM 6063-T6

SIGNED: 07/22/2026

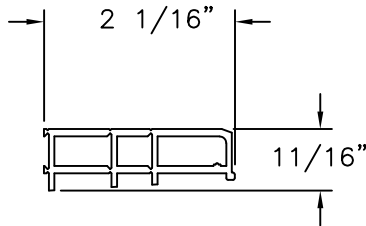
BILDAU & BUSSMANN NORTH AMERICA INC. 200 CONTINENTAL DRIVE, SUITE 401 NEWARK, DE 19713		
LIFT & SLIDE ALUMINUM CLAD DOOR IMPACT COMPONENTS		
DRAWN: R.L.	DWG NO. 08-01843B	REV B
SCALE NTS	DATE 07/24/12	SHEET 8 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



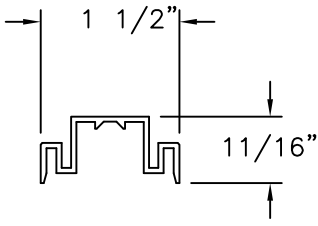
Luis R. Lomas P.E.
FL No.: 62514



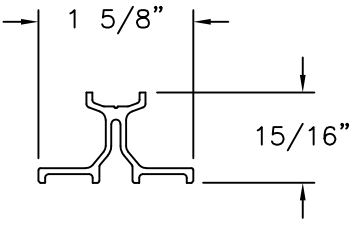
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED MANUFACTURER ADDRESS	07/22/2026	R.L.



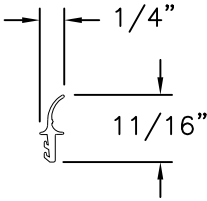
26 MIDDLE PROFILE
ALUMINUM 6063-T5



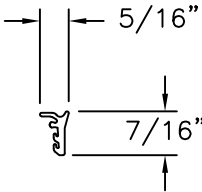
27 GUIDE PROFILE
ALUMINUM 6063-T5



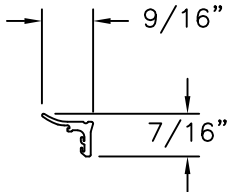
28 GUIDE BAR
ALUMINUM 6063-T5



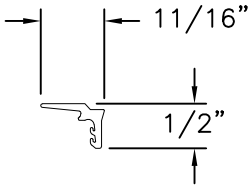
29 WEATHERSTRIP
EPDM 75 SHORE A



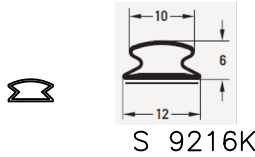
30 WEATHERSTRIP
EPDM 75 SHORE A



31 WEATHERSTRIP
EPDM 75 SHORE A



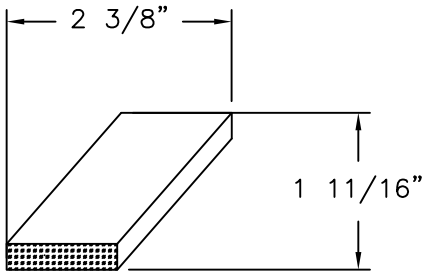
32 WEATHERSTRIP
EPDM 75 SHORE A



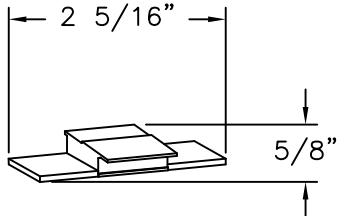
33 SELF-ADHESIVE GASKET
SILICONE



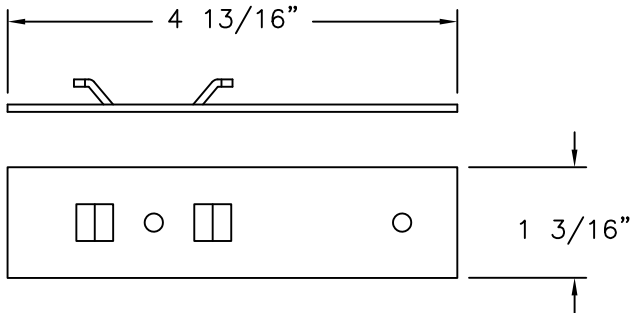
19 20 MULTI-POINT LOCK & BOLT
14GA GALVANIZED STEEL



34 FOAM BLOCK
FOAM



35 SEAL BLOCK
?



36 SHIM THERMOSTEP
GALVANIZED STEEL .080 THICK

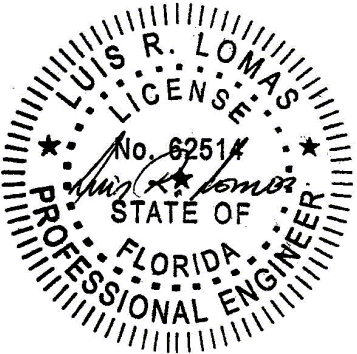
BILDAU & BUSSMANN NORTH AMERICA INC.
200 CONTINENTAL DRIVE, SUITE 401
NEWARK, DE 19713

LIFT & SLIDE ALUMINUM CLAD DOOR
IMPACT
COMPONENTS

DRAWN: R.L.	DWG NO. 08-01843B	REV B
SCALE NTS	DATE 07/24/12	SHEET 9 OF 10

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SIGNED: 07/22/2026



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