

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	UPDATE PER NEW REQUIREMENTS	09/23/26	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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. 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.
5. 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.
6. 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.
7. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. 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".
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: ALUMINUM 6063-T5
12. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 12 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FRAME 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.

15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME 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.
17. ALL FASTENERS TO BE CORROSION RESISTANT.
18. 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. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
 - C. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM

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LANAI DOORS
941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR
IMPACT HVHZ
NOTES

DRAWN:
A.R.

DWG NO.
08-03529

REV
B

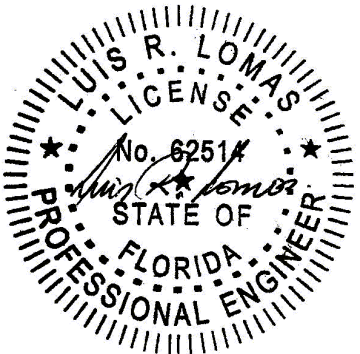
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DATE 02/13/2020

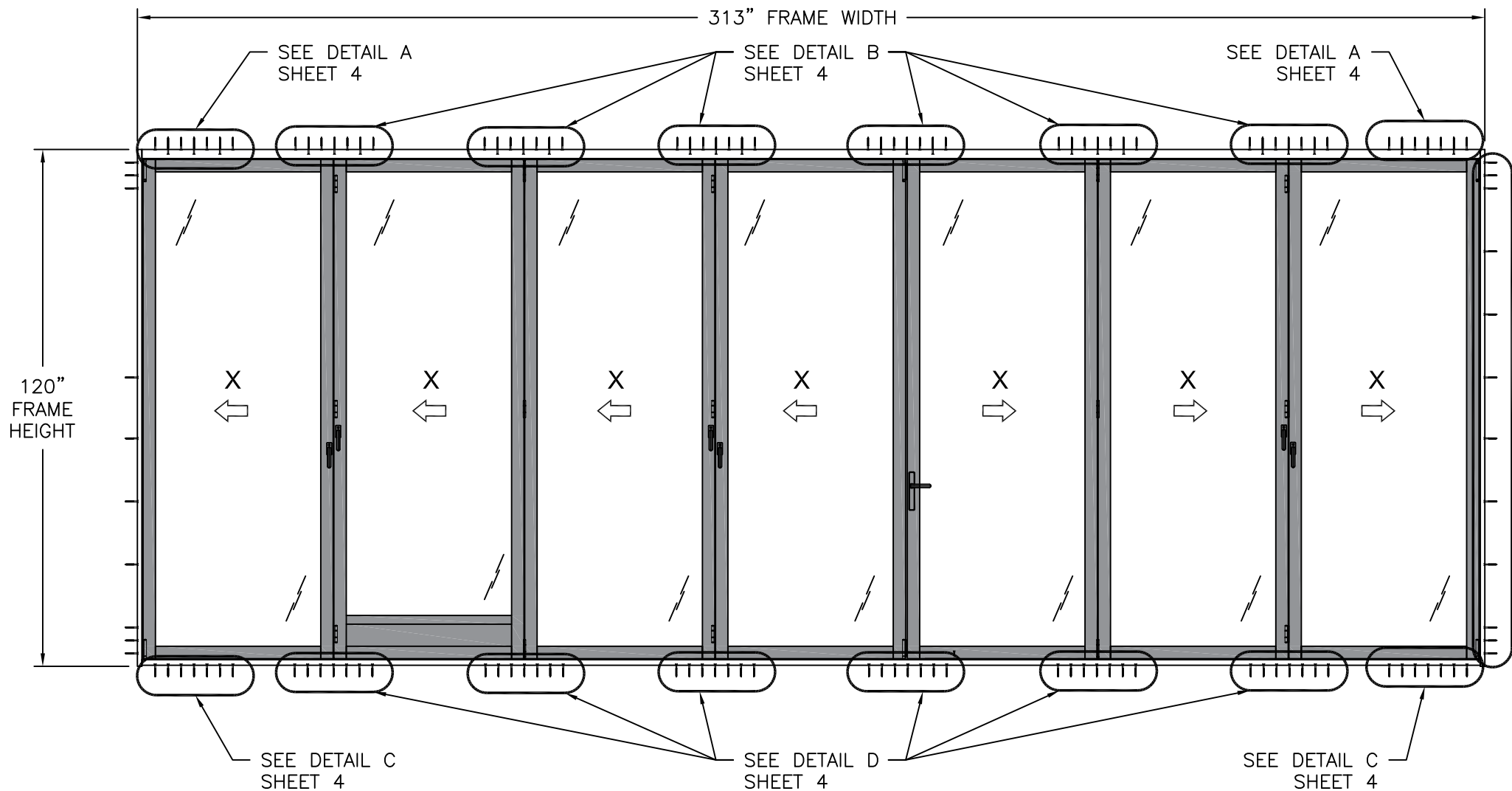
SHEET 1 OF 12

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SIGNED: 09/23/2026



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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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NOTES:
1. PANEL SIZE: 44" X 115 5/8"
2. D.L.O.: 38 5/16" X 109 7/8"

E+ ALUMINUM BI-FOLD OUT-SWING DOOR IMPACT HVHZ

EXTERIOR VIEW

7 PANEL UNIT (4L3R) SHOWN. UNLIMITED NUMBER OF PANELS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 35.3FT² AND TOTAL FRAME AREA DOES NOT EXCEED 391.3FT²

WITH STANDARD SILL

DESIGN PRESSURE RATING	IMPACT RATING
+50.0/-60.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 & HVHZ
WHERE WATER PENETRATION RESISTANCE IS REQUIRED
SEE CHART #1 SHEET 3 FOR OTHER SIZES

WITH STANDARD, FLUSH OR LOW RISE SILL

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 & HVHZ
WHERE WATER PENETRATION RESISTANCE IS NOT REQUIRED
SEE CHART #2 SHEET 3 FOR OTHER SIZES

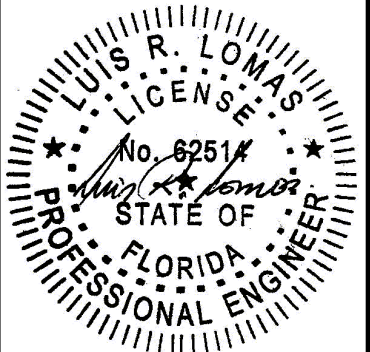
HARDWARE SCHEDULE

A.	(8) HINGES AT LEFT AND RIGHT INTERMEDIATE PANELS
B.	(4) PIVOTS AT TOP AND BOTTOM OF LATERAL PANELS
C.	(2) ROLLER CARRIAGE AND HINGE ASSEMBLY AT TOP OF INTERMEDIATE PANELS
D.	(2) GUIDE ROLLER AND HINGE ASSEMBLY AT BOTTOM OF INTERMEDIATE PANELS
E.	(3) TWIN BOLT LOCK AT OUTER PANELS AND RIGHT CENTER PANEL STILES
F.	(1) INTERLOCK LCL LOCK AT LEFT CENTER PANEL STILE
G.	(3) SHOOT BOLT CUPS IN THRESHOLD 41" FROM EACH END



LANAI DOORS 941 NORTH ELM STREET, SUITE C ORANGE, CA 92867		
E+ ALUMINUM BI-FOLD OUT-SWING DOOR IMPACT HVHZ ELEVATION FRAME INSTALLATION		
DRAWN: A.R.	DWG NO. 08-03529	REV B
SCALE NTS	DATE 02/13/2020	SHEET 2 OF 12
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Chart #1
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)															
	24.0		27.0		30.0		33.0		36.0		39.0		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
84.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
90.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
96.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
102.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
108.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
115.6	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
114.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0
120.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	59.6	50.0	55.7	-	-
126.0	50.0	60.0	50.0	60.0	50.0	60.0	50.0	59.9	50.0	55.2	50.0	51.3	-	-	-	-
132.0	50.0	60.0	50.0	60.0	50.0	56.9	50.0	52.0	47.9	47.9	-	-	-	-	-	-
138.0	50.0	60.0	50.0	55.1	49.7	49.7	45.4	45.4	41.8	41.8	-	-	-	-	-	-
144.0	50.0	54.3	48.4	48.4	43.7	43.7	39.9	39.9	-	-	-	-	-	-	-	-

Where water penetration resistance is required

Chart #2
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)															
	24.0		27.0		30.0		33.0		36.0		39.0		42.0		44.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
102.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
115.6	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
114.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
120.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.6	59.6	55.7	55.7	-	-
126.0	60.0	60.0	60.0	60.0	60.0	60.0	59.9	59.9	55.2	55.2	51.3	51.3	-	-	-	-
132.0	60.0	60.0	60.0	60.0	56.9	56.9	52.0	52.0	47.9	47.9	-	-	-	-	-	-
138.0	60.0	60.0	55.1	55.1	49.7	49.7	45.4	45.4	41.8	41.8	-	-	-	-	-	-
144.0	54.3	54.3	48.4	48.4	43.7	43.7	39.9	39.9	-	-	-	-	-	-	-	-

Where water penetration resistance is not required

Anchors and anchor connectors corrosion resistance chart

Exposure	Distance from coastal shoreline	
	0' up to 300'	>300' up to 3000'
Exterior - partially sheltered	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Exterior - open exposed	304 or A305 or 306 Stainless steel per ASTM A240	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-vented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S
Unconditioned interior-unvented enclosed	Galvanized per ASTM A153 class D or ASTM A641 class 3S	Galvanized per ASTM A153 class D or ASTM A641 class 3S



LANAI DOORS
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ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR
IMPACT HVHZ
DESIGN PRESSURE CHARTS

DRAWN:
A.R.

DWG NO.
08-03529

REV
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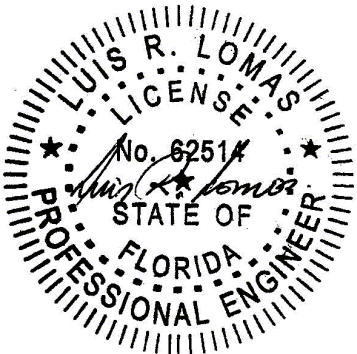
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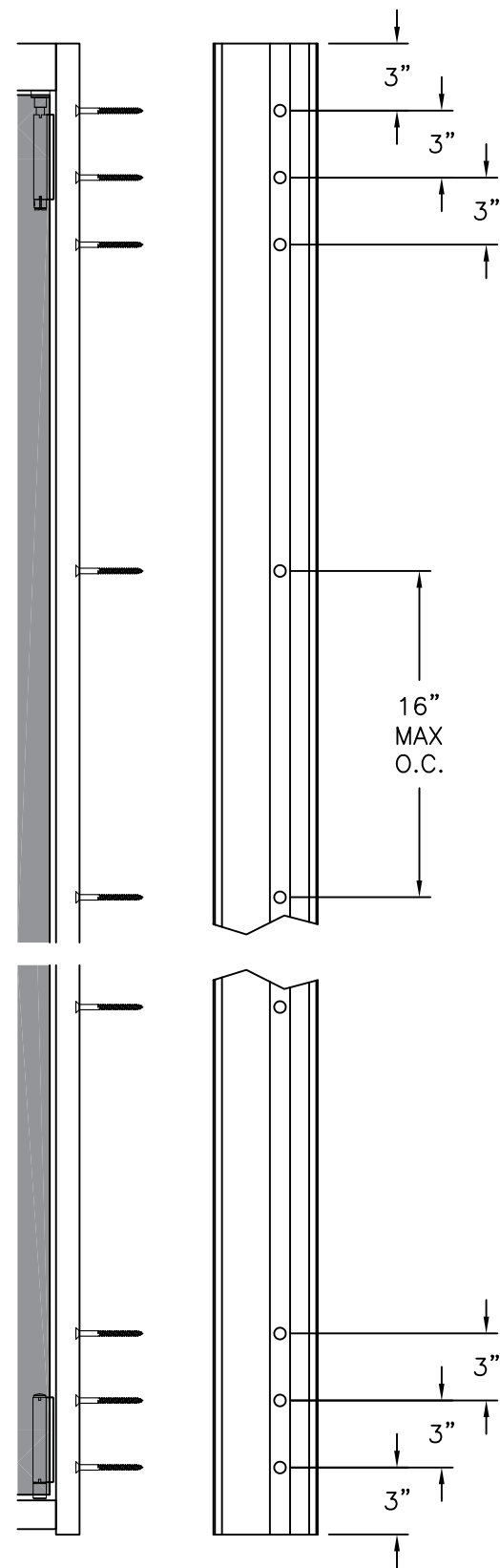
SHEET
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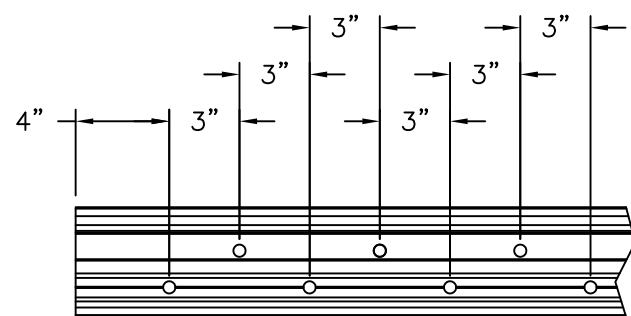
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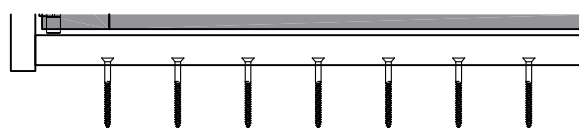
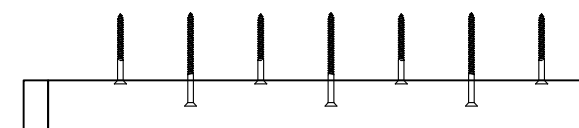
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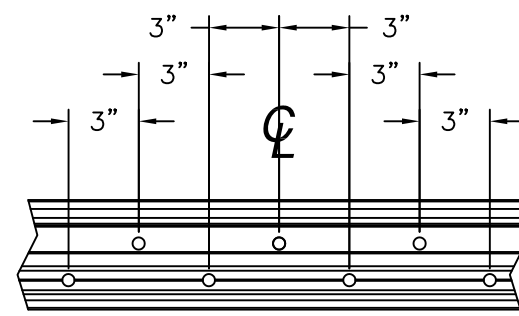
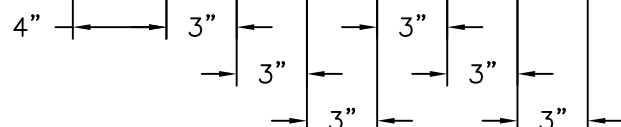
DETAIL E
JAMB ANCHORS



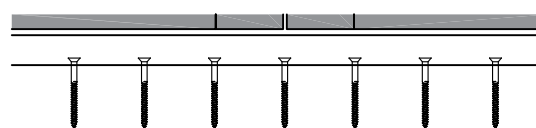
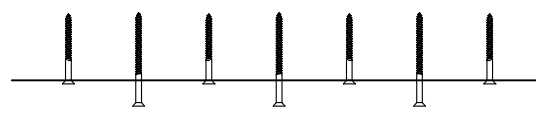
DETAIL A
HEAD CORNER ANCHORS



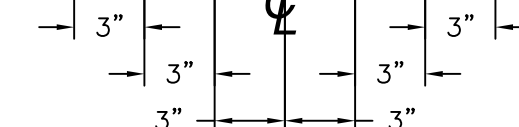
DETAIL C
SILL CORNER ANCHORS



DETAIL B
HEAD INTERMEDIATE ANCHORS



DETAIL D
SILL INTERMEDIATE ANCHORS



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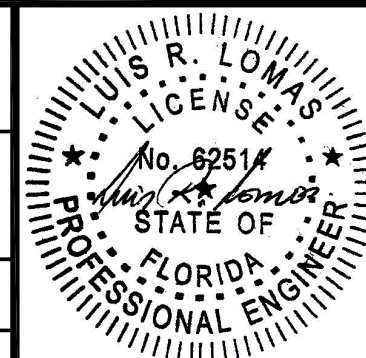


LANAI DOORS
941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR
IMPACT HVHZ
ANCHORING DETAILS

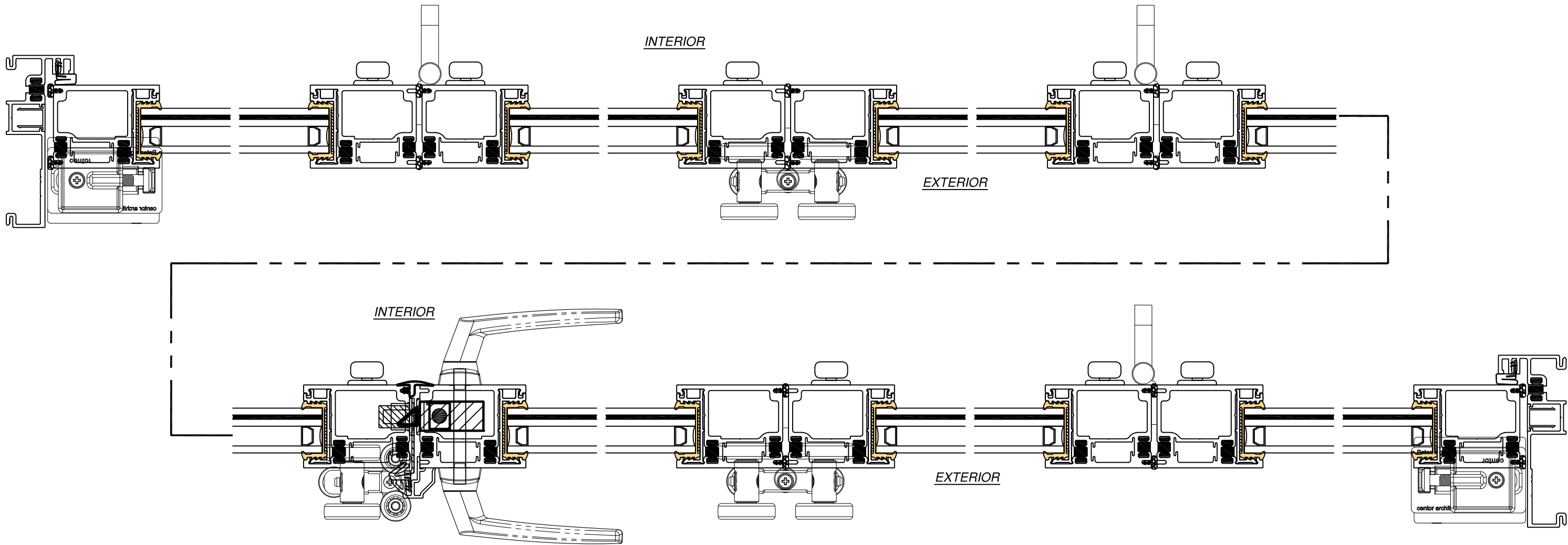
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SCALE NTS	DATE 02/13/2020	SHEET 4 OF 12
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HORIZONTAL CROSS SECTION



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ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR
IMPACT HVHZ
HORIZONTAL CROSS SECTION

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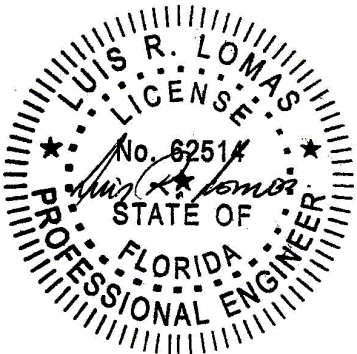
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5 OF 12

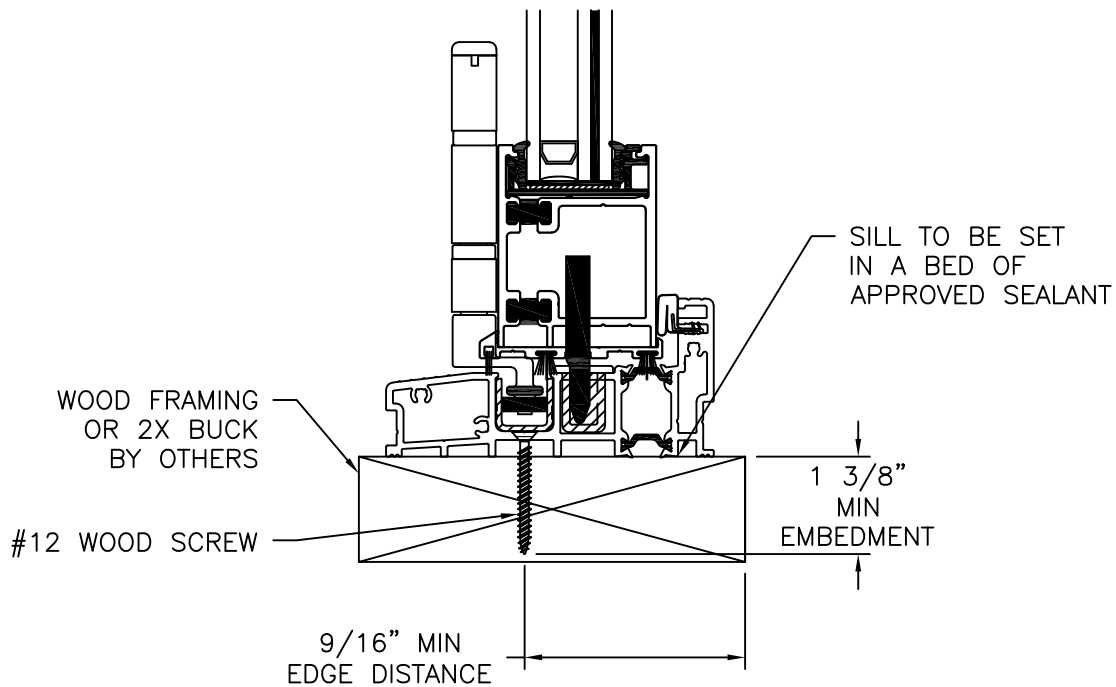
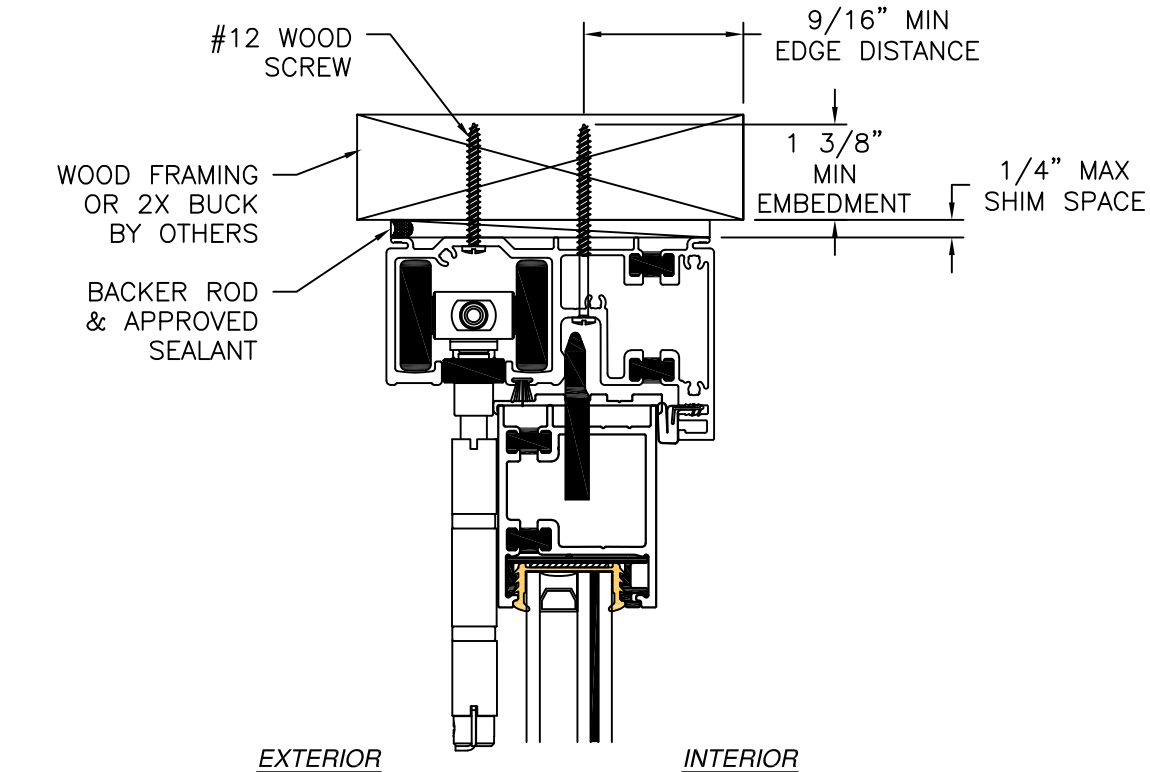
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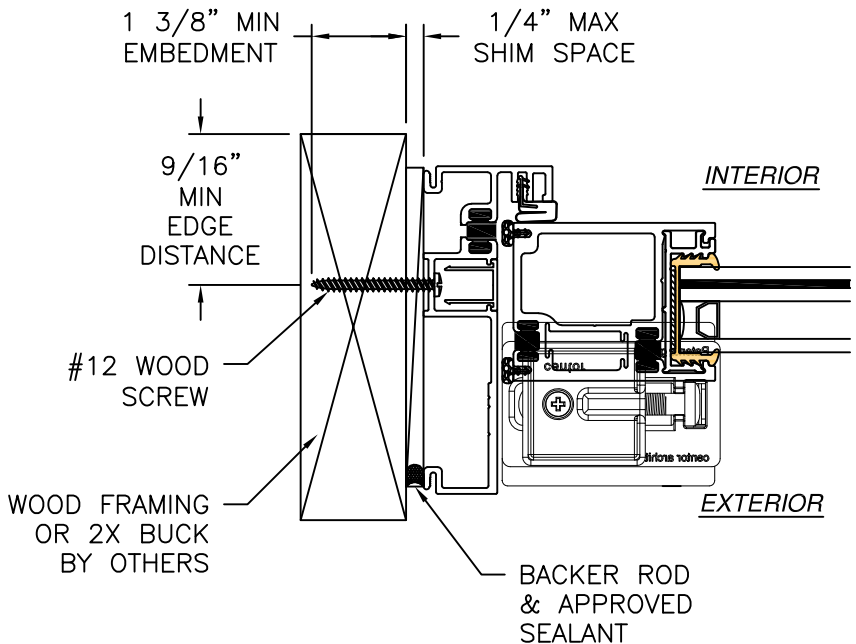


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



LANAI DOORS

941 NORTH ELM STREET, SUITE C
ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR
IMPACT HVHZ
INSTALLATION DETAILS STANDARD THRESHOLD

DRAWN: A.R.

DWG NO. 08-03529

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SCALE NTS

DATE 02/13/2020

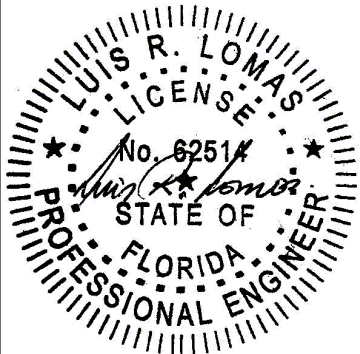
SHEET 6 OF 12

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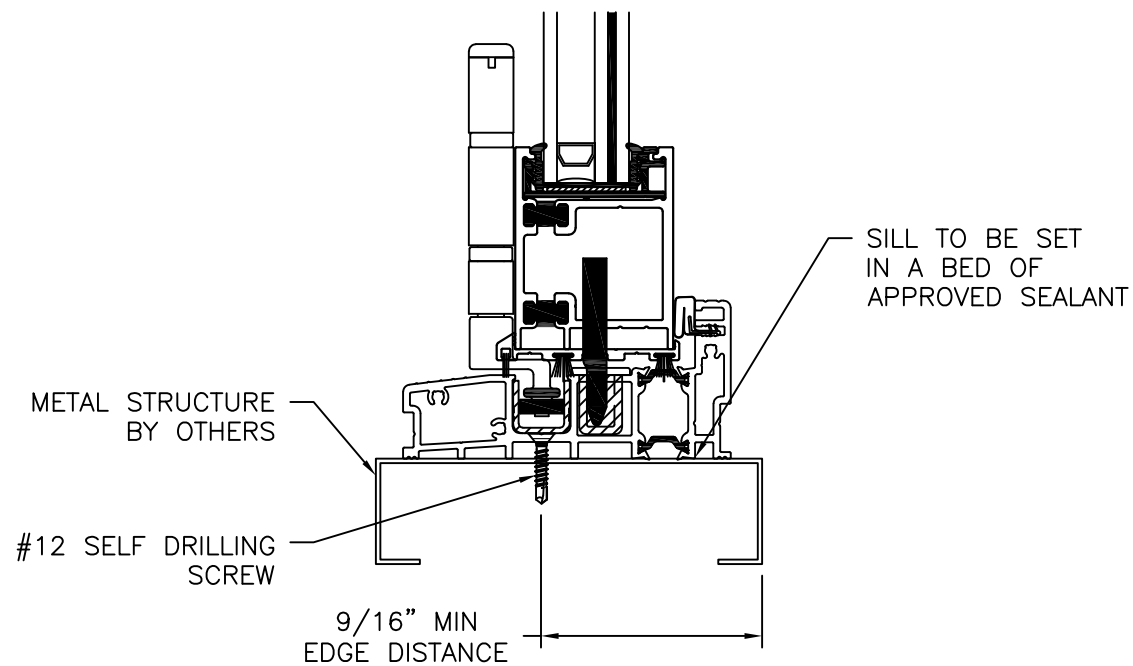
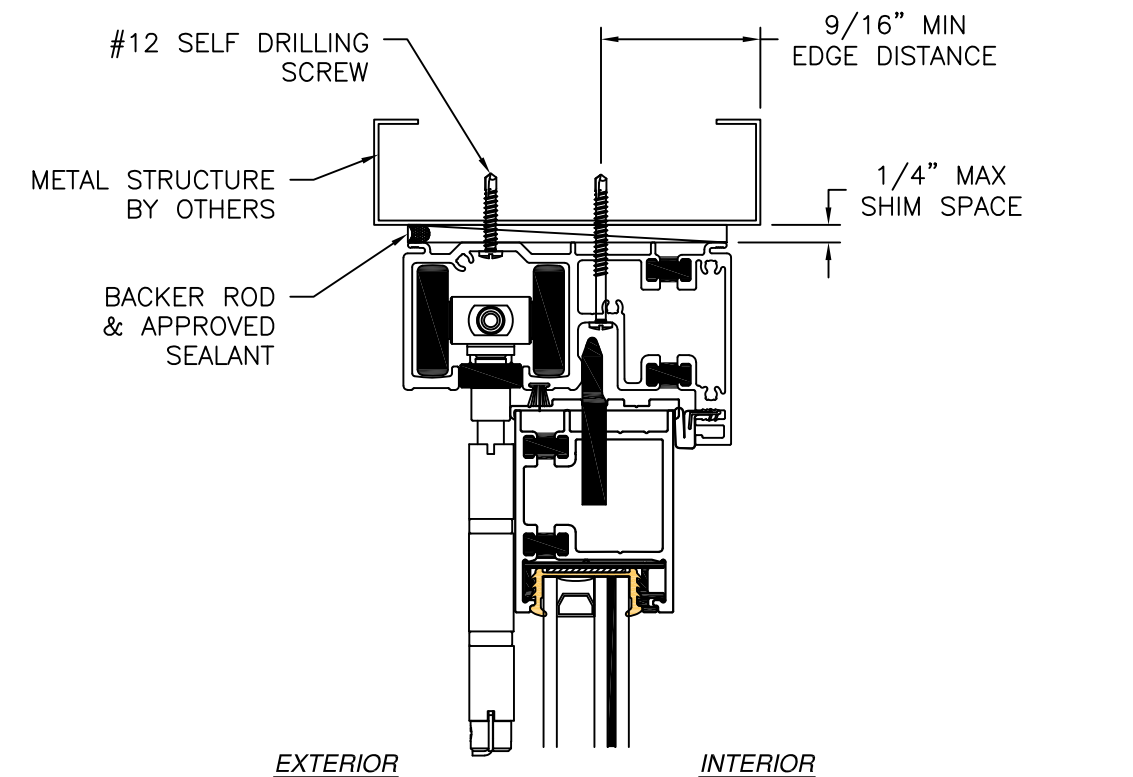
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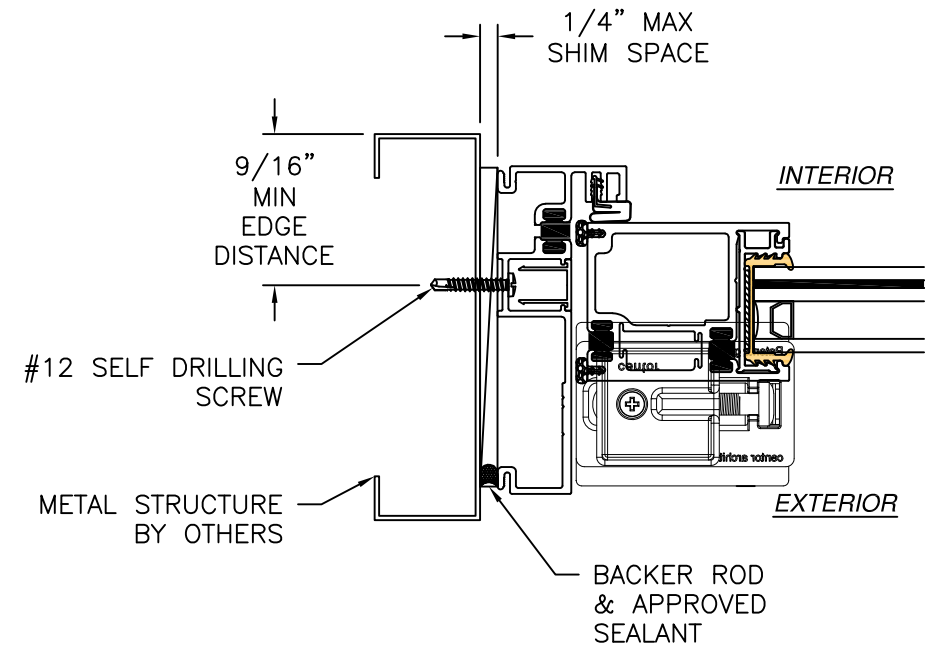


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

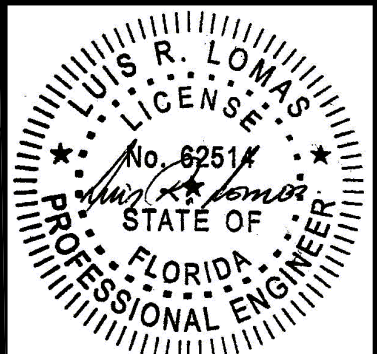
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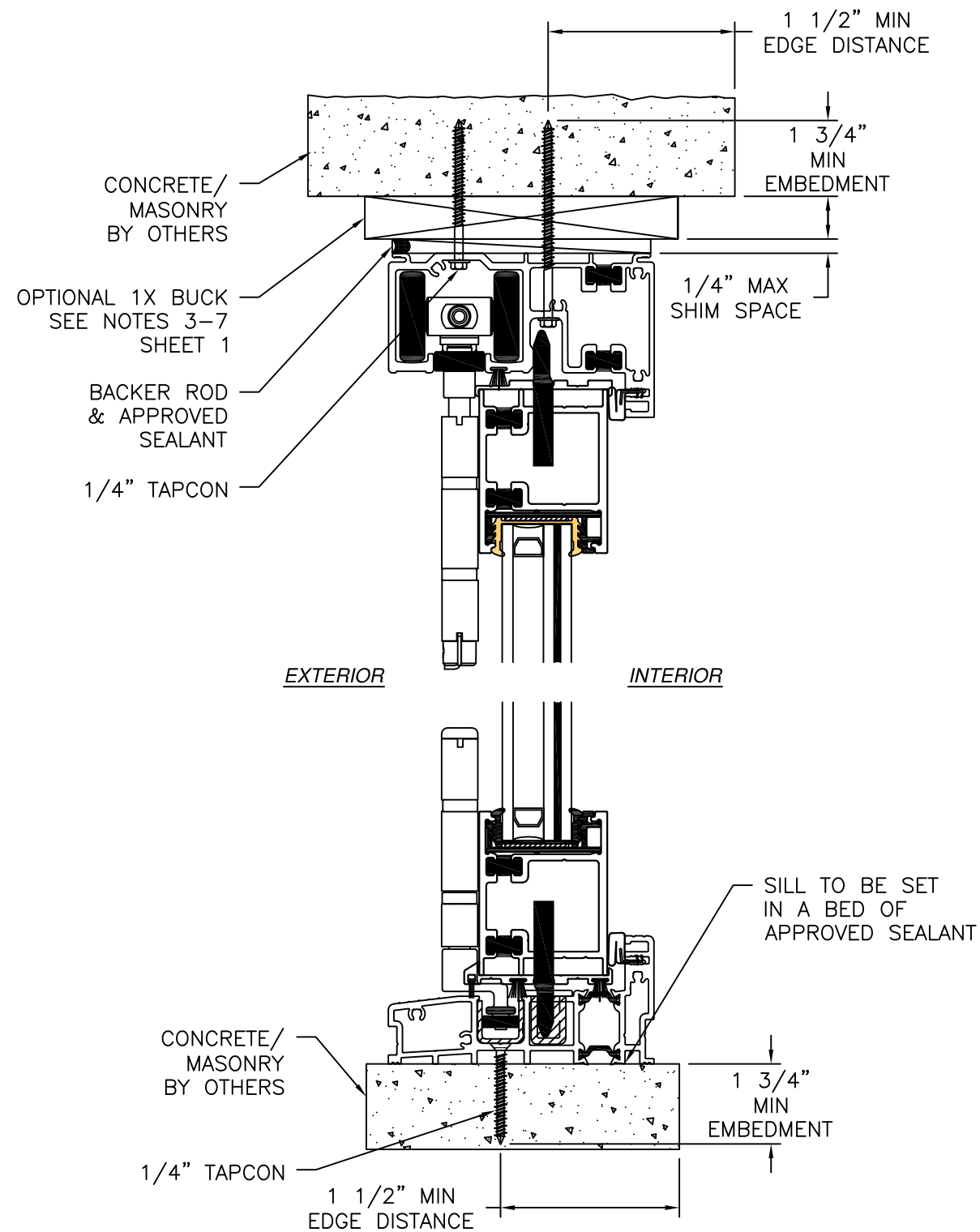
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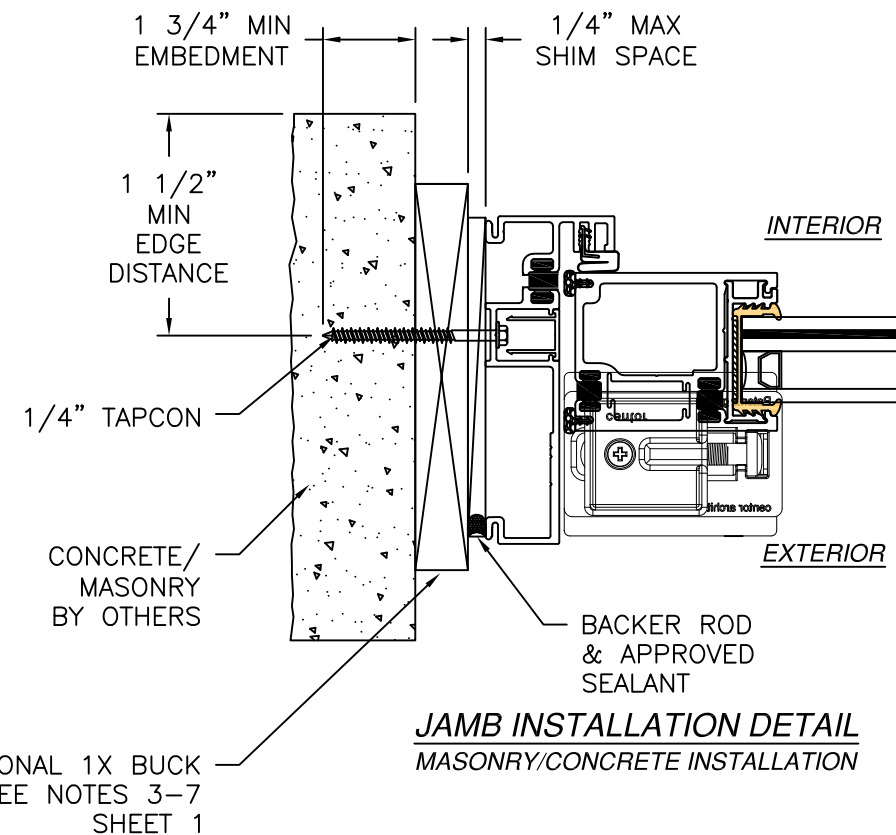
LANAI DOORS 941 NORTH ELM STREET, SUITE C ORANGE, CA 92867		
E+ ALUMINUM BI-FOLD OUT-SWING DOOR IMPACT HVHZ INSTALLATION DETAILS STANDARD THRESHOLD		
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
MASONRY/CONCRETE INSTALLATION

NOTES:

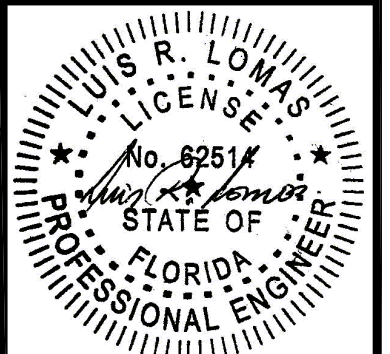
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
B	UPDATE PER NEW REQUIREMENTS	09/23/26	R.L.



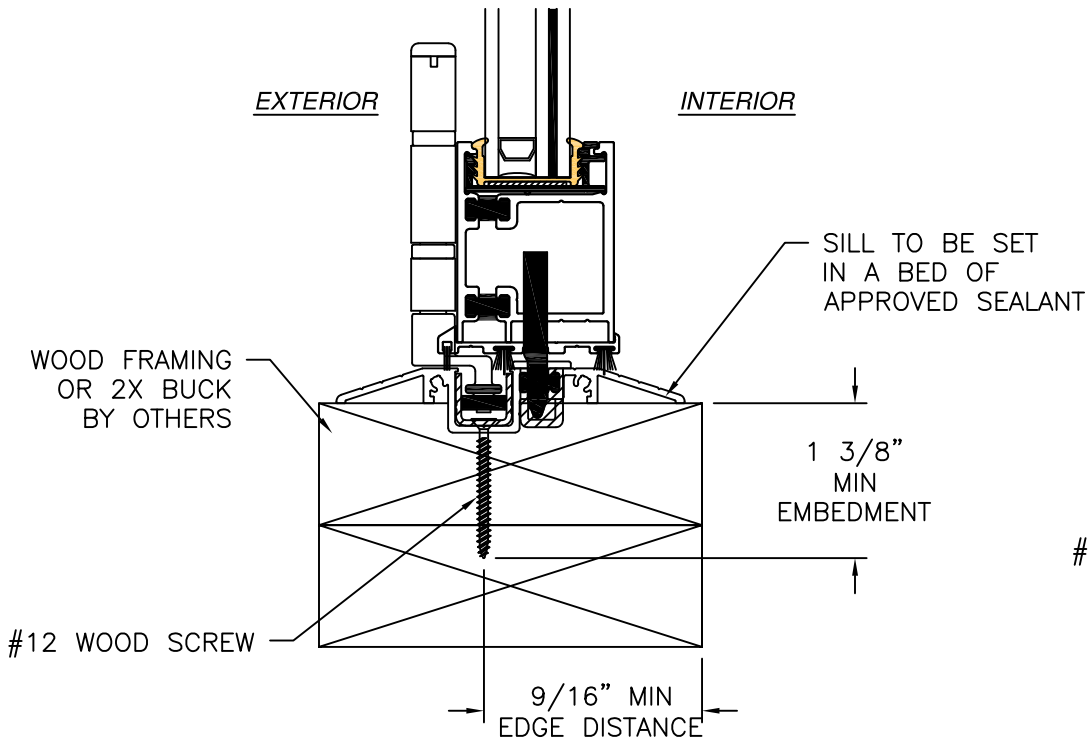
LANAI DOORS 941 NORTH ELM STREET, SUITE C ORANGE, CA 92867		
E+ ALUMINUM BI-FOLD OUT-SWING DOOR IMPACT HVHZ INSTALLATION DETAILS STANDARD THRESHOLD		
DRAWN: A.R.	DWG NO. 08-03529	REV B
SCALE NTS	DATE 02/13/2020	SHEET 8 OF 12
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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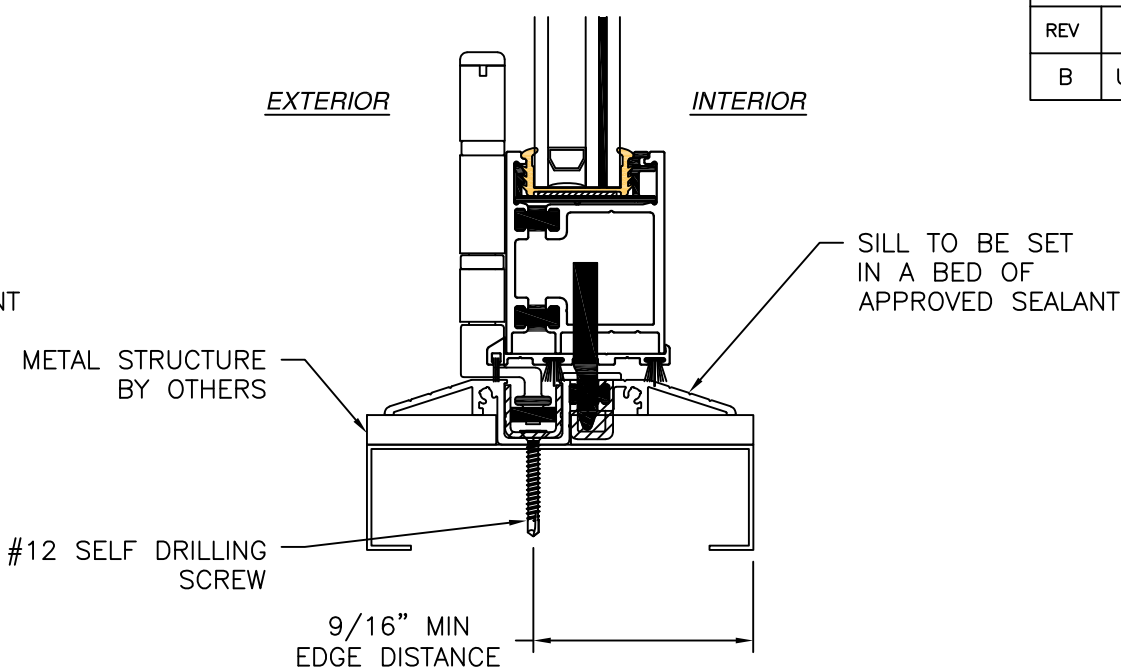


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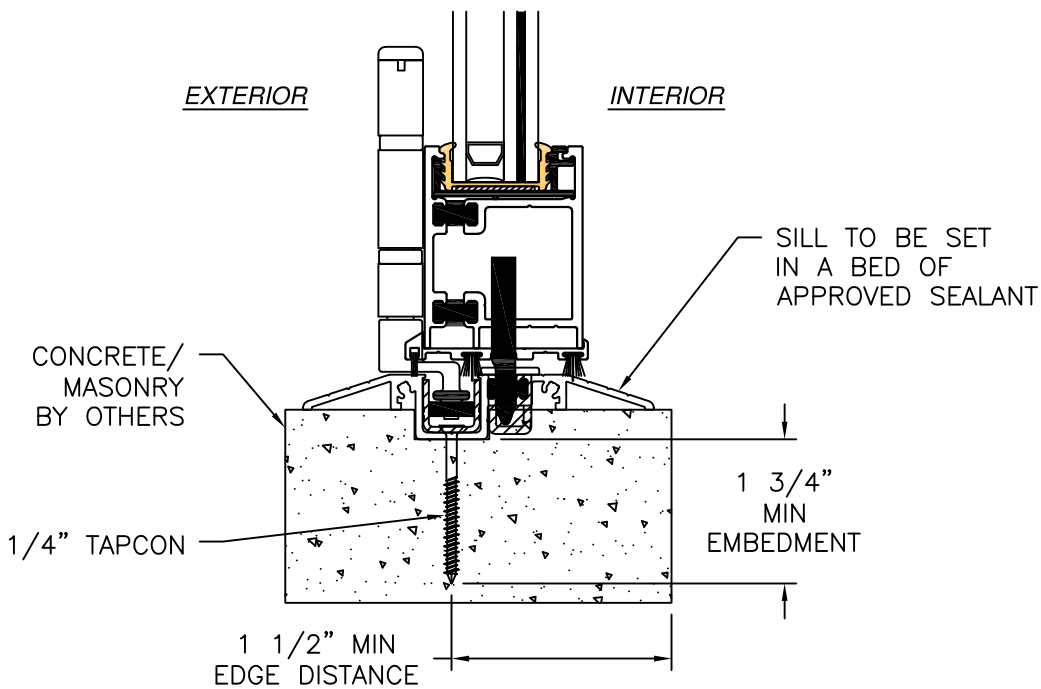
REVISIONS			
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LOW RISE THRESHOLD
WOOD FRAMING OR 2X BUCK INSTALLATION



LOW RISE THRESHOLD
METAL STRUCTURE INSTALLATION



LOW RISE THRESHOLD
CONCRETE/MASONRY INSTALLATION

- NOTES:
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LANAI DOORS

941 NORTH ELM STREET, SUITE C

ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR

IMPACT HVHZ

INSTALLATION DETAILS LOW RISE THRESHOLD

DRAWN: A.R.

DWG NO. 08-03529

REV B

SCALE NTS

DATE 02/13/2020

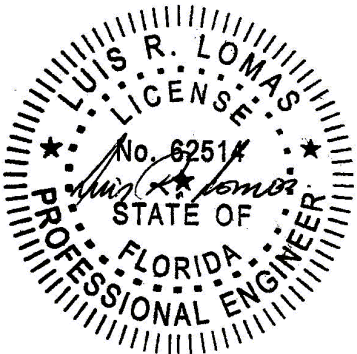
SHEET 9 OF 12

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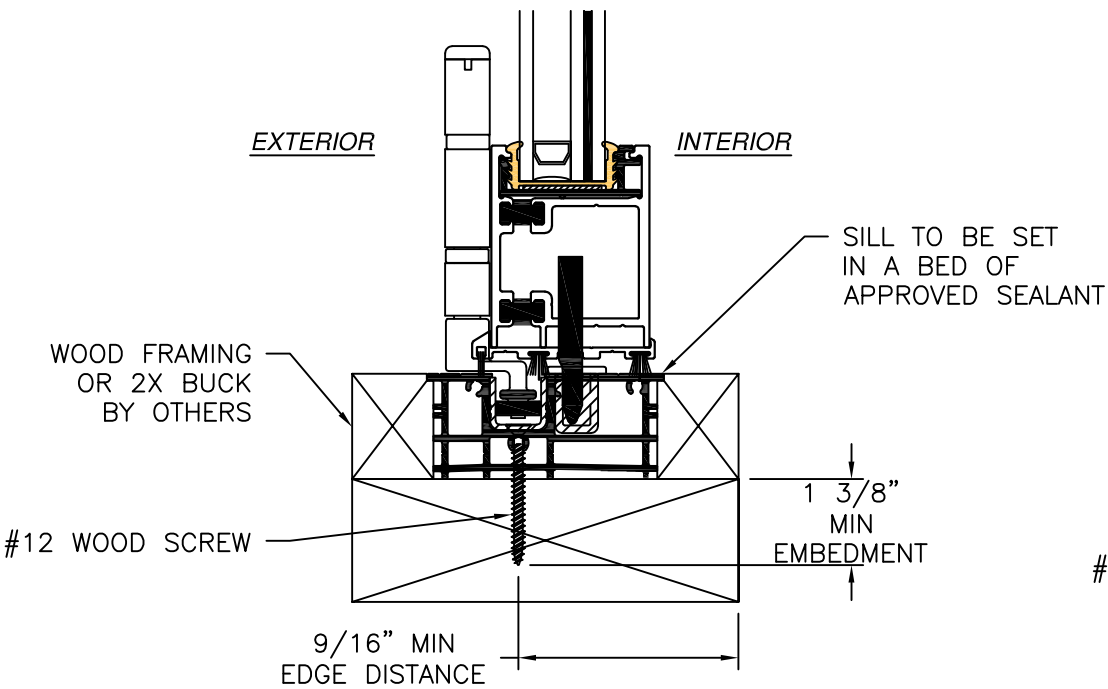
434-688-0609 rllomas@lrlomaspe.com

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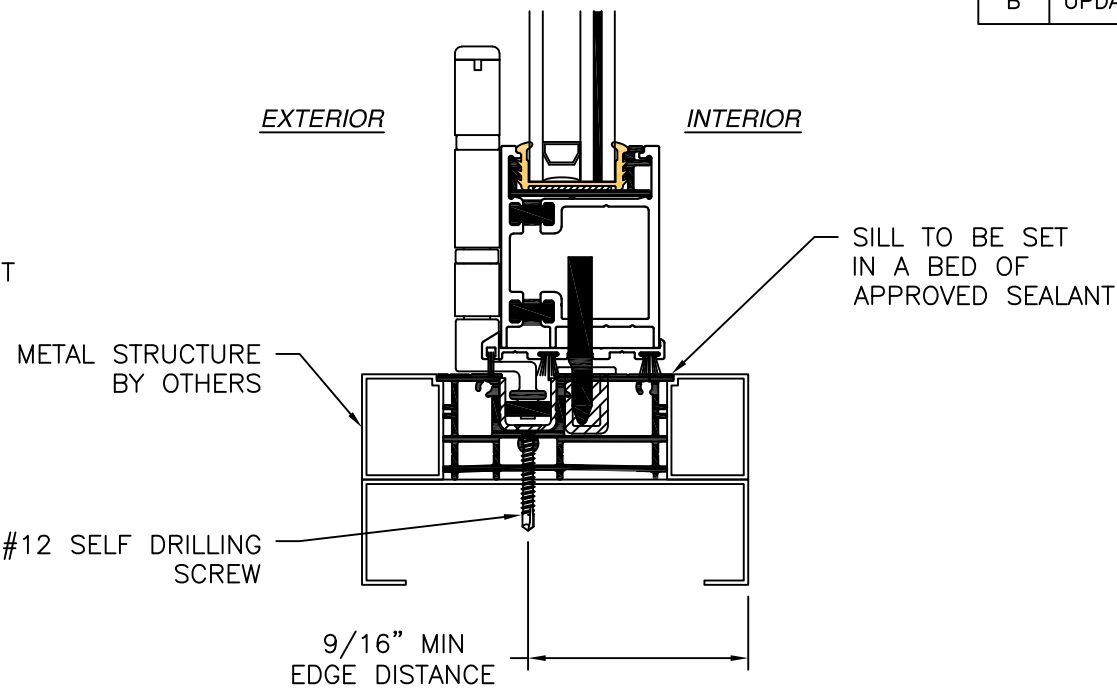


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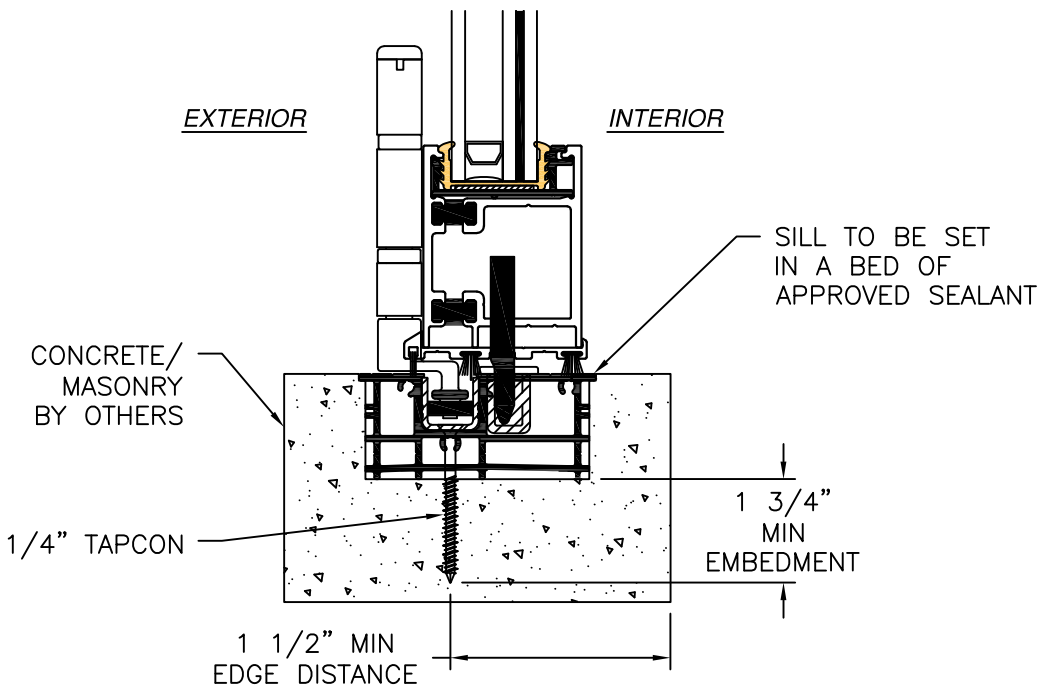
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

- NOTES:
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LANAI DOORS

941 NORTH ELM STREET, SUITE C

ORANGE, CA 92867

E+ ALUMINUM BI-FOLD OUT-SWING DOOR

IMPACT HVHZ

INSTALLATION DETAILS FLUSH THRESHOLD

DRAWN: A.R.

DWG NO. 08-03529

REV B

SCALE NTS

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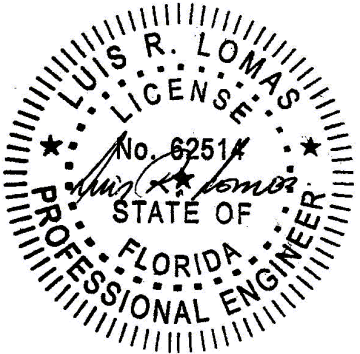
SHEET 10 OF 12

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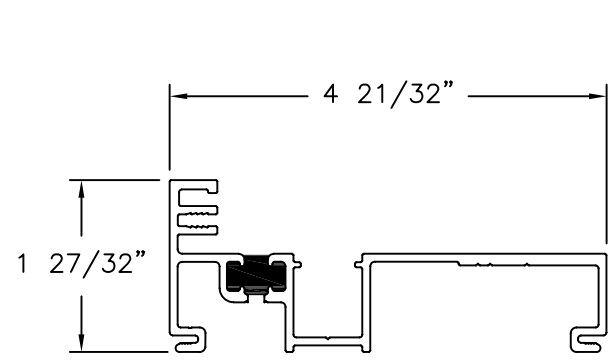
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434-688-0609 rllomas@lrlomaspe.com

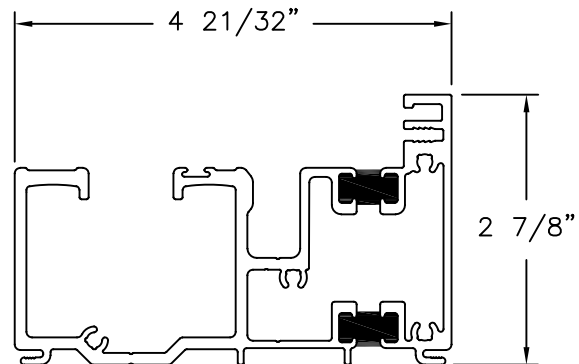
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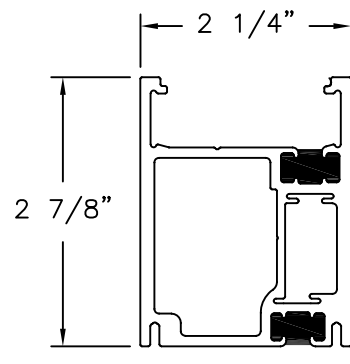
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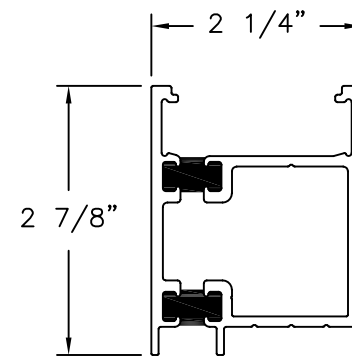
JAMB FRAME
ALUMINUM 6063-T5



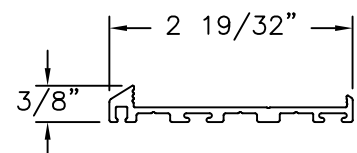
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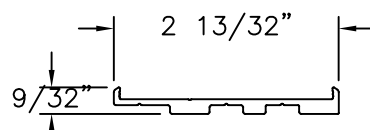
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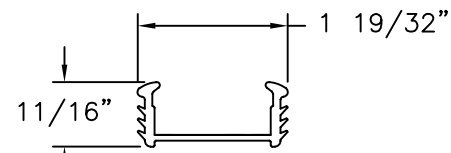
TOP/BOTTOM RAIL
ALUMINUM 6063-T5



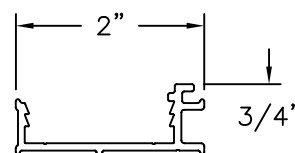
DOOR BOOT
ALUMINUM 6063-T5



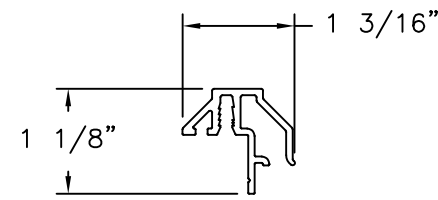
DOOR CAP
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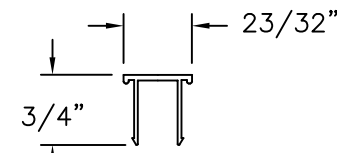
GLAZING GASKET
SANTOPRENE



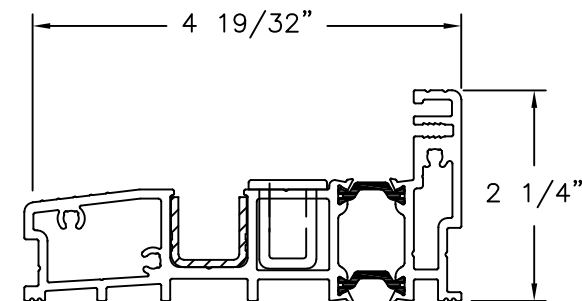
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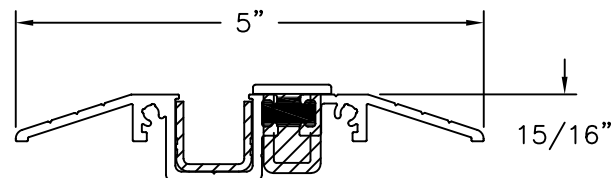
ASTRAGAL
ALUMINUM 6063-T5



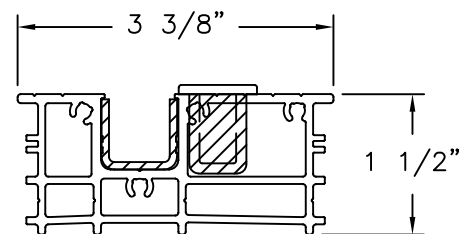
JAMB COVER
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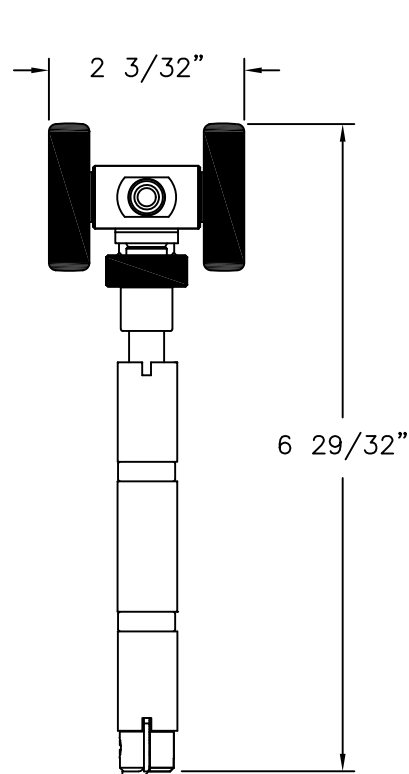
STANDARD THRESHOLD ASSY
ALUMINUM 6063-T5



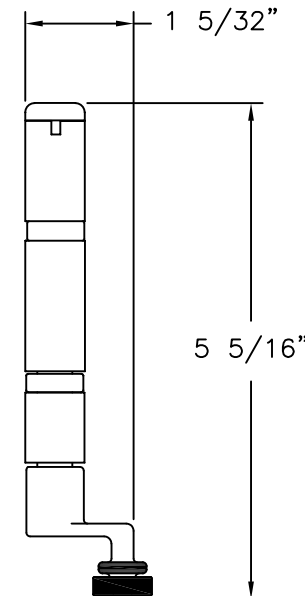
LOW RISE THRESHOLD ASSY
ALUMINUM 6063-T5



COMMERCIAL FLUSH THRESHOLD ASSY
ALUMINUM 6063-T5



CARRIAGE & HINGE ASSY



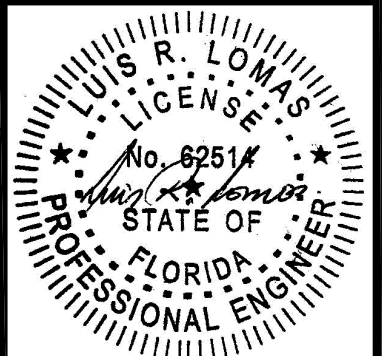
GUIDE & HINGE ASSY



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SIGNED: 09/23/2026

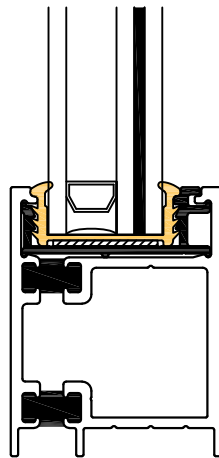
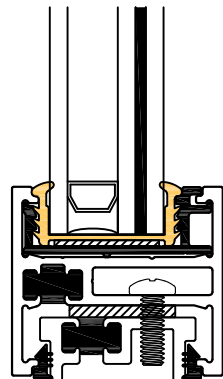
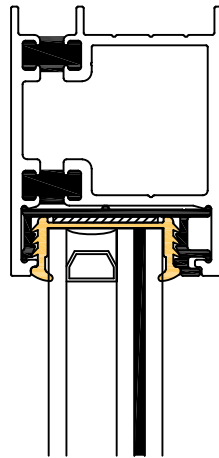
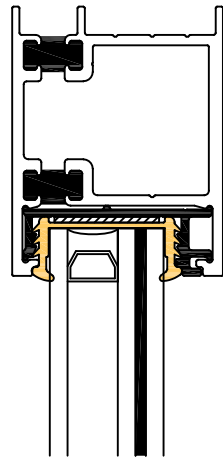
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DRAWN: A.R.	DWG NO. 08-03529	REV B
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



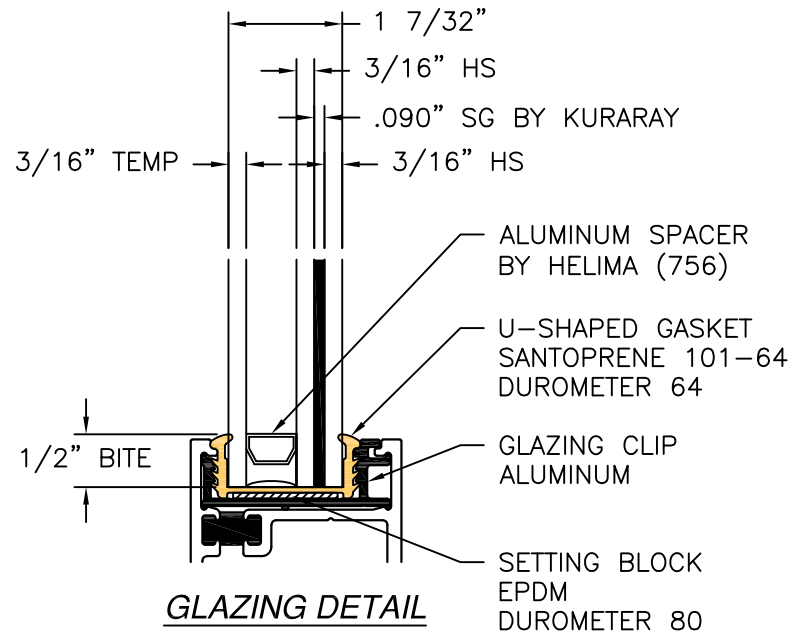
Luis R. Lomas P.E.
FL No.: 62514

APPROVED PANELS

REVISIONS			
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PANEL STANDARD



GLAZING DETAIL

PANEL W/10" BOTTOM RAIL



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E+ ALUMINUM BI-FOLD OUT-SWING DOOR IMPACT HVHZ COMPONENTS		
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