

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
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 6 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 #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 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

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATION
3 – 5	INSTALLATION DETAILS
6	COMPONENTS

E6 GLOBAL IPA, LLC.

12–1394, 369 GANGNAM–DAERO, SEOCHO–GU
SEOUL 06621, SOUTH KOREA

AZ57–HW TWIN CORE ALUMINUM BIFOLD DOORS
IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03544

REV
–

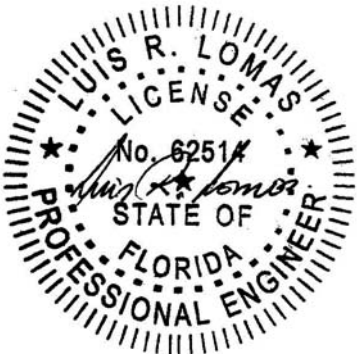
SCALE NTS

DATE 11/10/2020

SHEET 1 OF 6

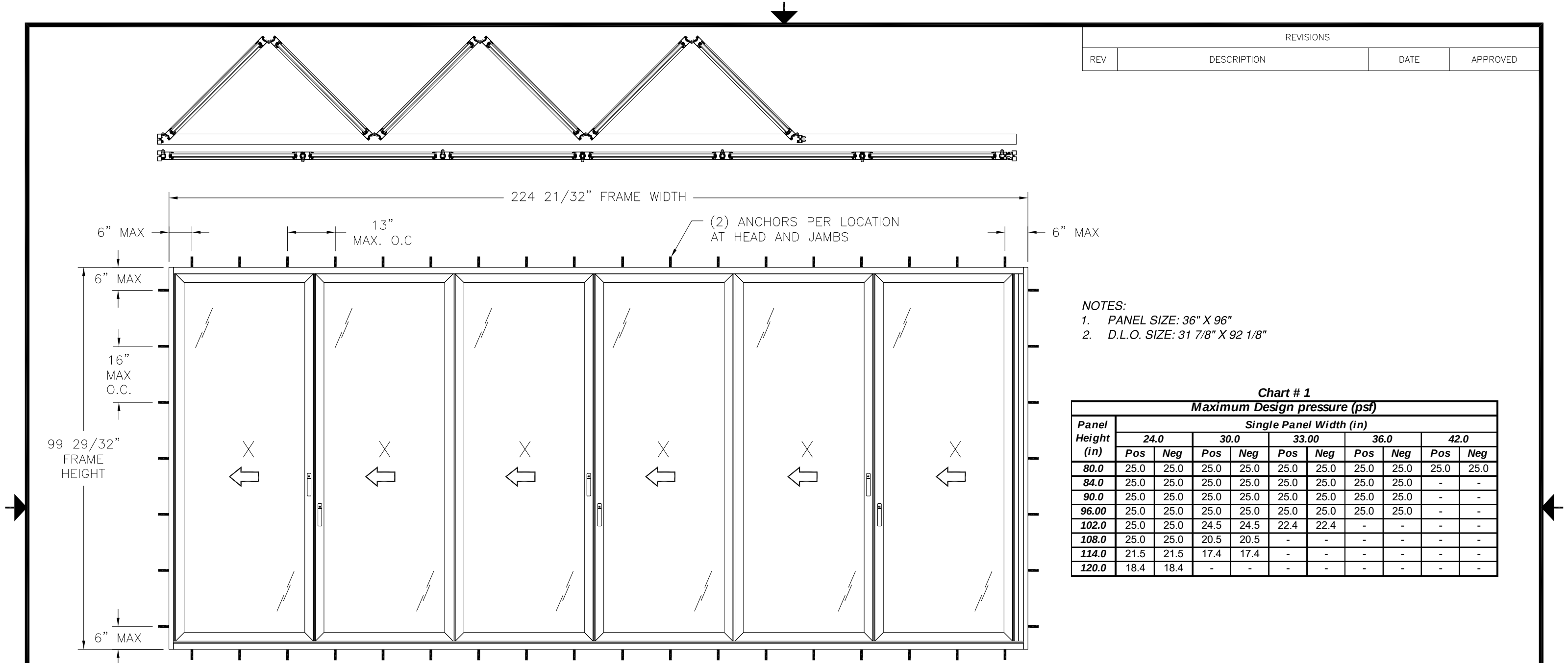
L. ROBERTO LOMAS P.E.
1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/07/2020



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



- NOTES:
- PANEL SIZE: 36" X 96"
 - D.L.O. SIZE: 31 7/8" X 92 1/8"

Chart # 1 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		33.00		36.0		42.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
80.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
84.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-
90.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-
96.00	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	-	-
102.0	25.0	25.0	24.5	24.5	22.4	22.4	-	-	-	-
108.0	25.0	25.0	20.5	20.5	-	-	-	-	-	-
114.0	21.5	21.5	17.4	17.4	-	-	-	-	-	-
120.0	18.4	18.4	-	-	-	-	-	-	-	-

AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS - IMPACT
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
6 PANELS SHOWN. UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 24.0 FT² AND USES VERTICAL CONDITIONS AS SHOWN HEREIN.

HARDWARE SCHEDULE	
A.	HINGE AT 21" ON CENTER OF EACH MEETING STILE
B.	HINGE WITH ROLLER, 4" FROM EACH END OF STILE ON PANELS 1, 3 AND 5
C.	MULTI-POINT LOCK AND SHOOT BOLTS LOCATED AT EACH PANEL HEAD, SILL AND HANDLE LOCATIONS
D.	ALUMINUM PANEL REINFORCEMENT AT TOP, BOTTOM RAIL AND STILES

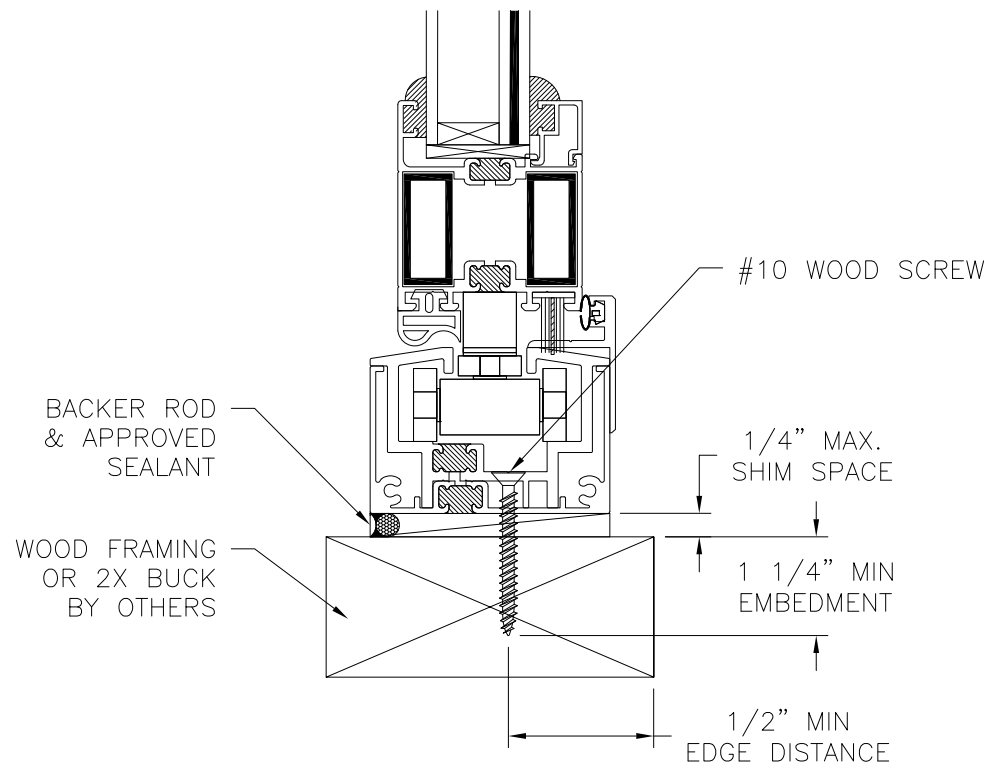
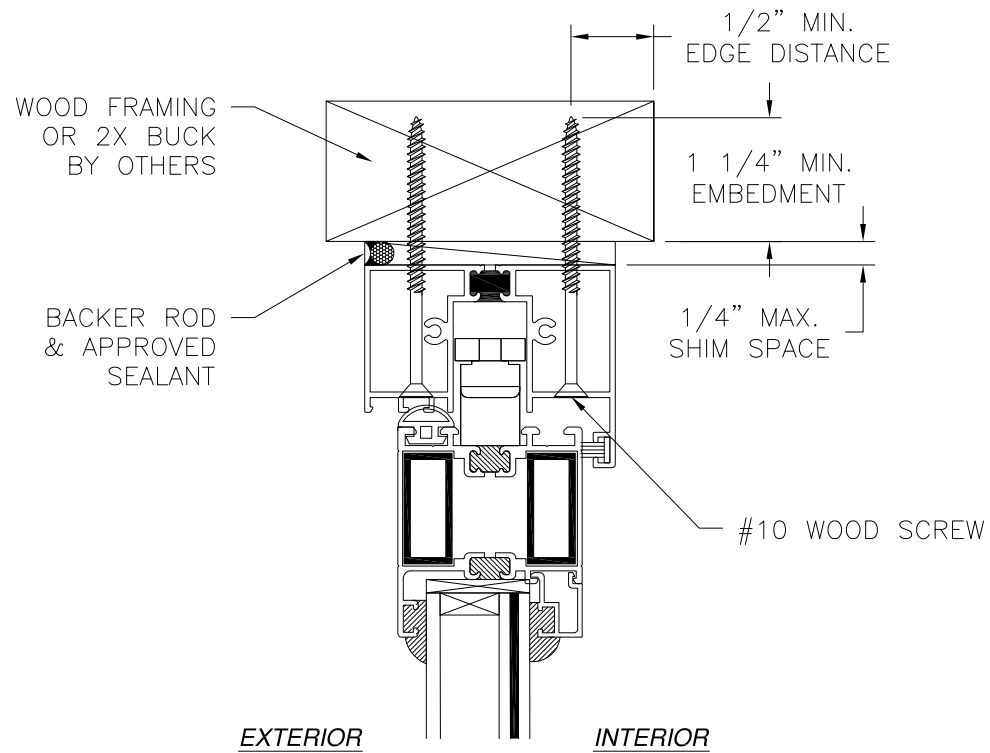
E6 GLOBAL IPA, LLC. 12-1394, 369 GANGNAM-DAERO, SEOCHO-GU SEOUL 06621, SOUTH KOREA		
AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS IMPACT ELEVATION		
DRAWN: A.R.	DWG NO. 08-03544	REV -
SCALE NTS	DATE 11/10/2020	SHEET 2 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/07/2020

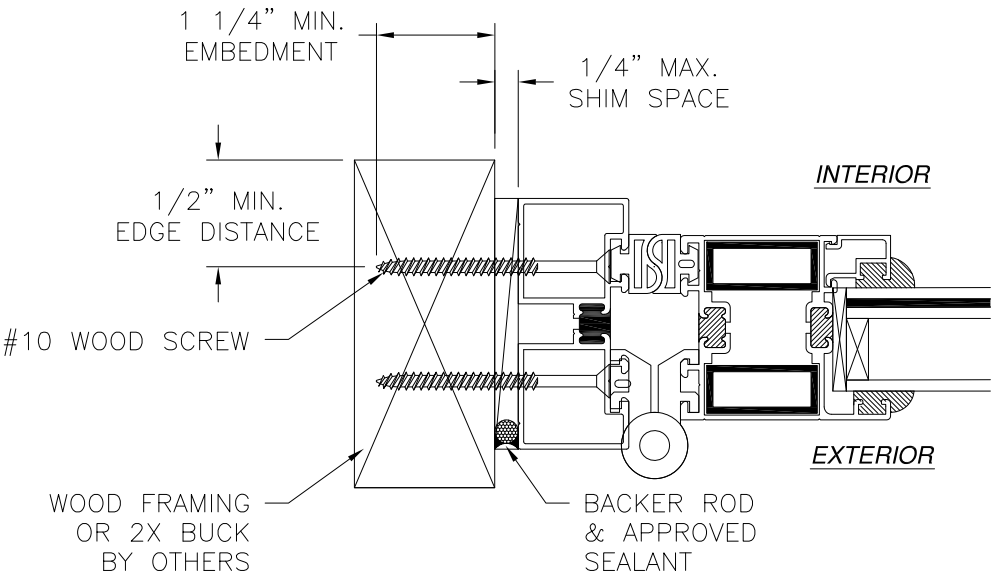


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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

SIGNED: 12/07/2020

E6 GLOBAL IPA, LLC.

12-1394, 369 GANGNAM-DAERO, SEOCHO-GU
SEOUL 06621, SOUTH KOREA

AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS
IMPACT

INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03544

REV
-

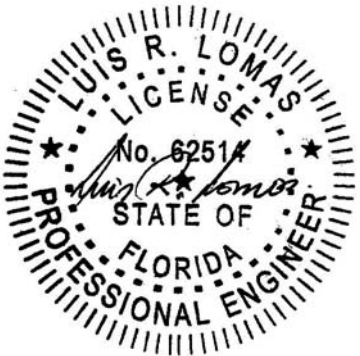
SCALE
NTS

DATE
11/10/2020

SHEET
3 OF 6

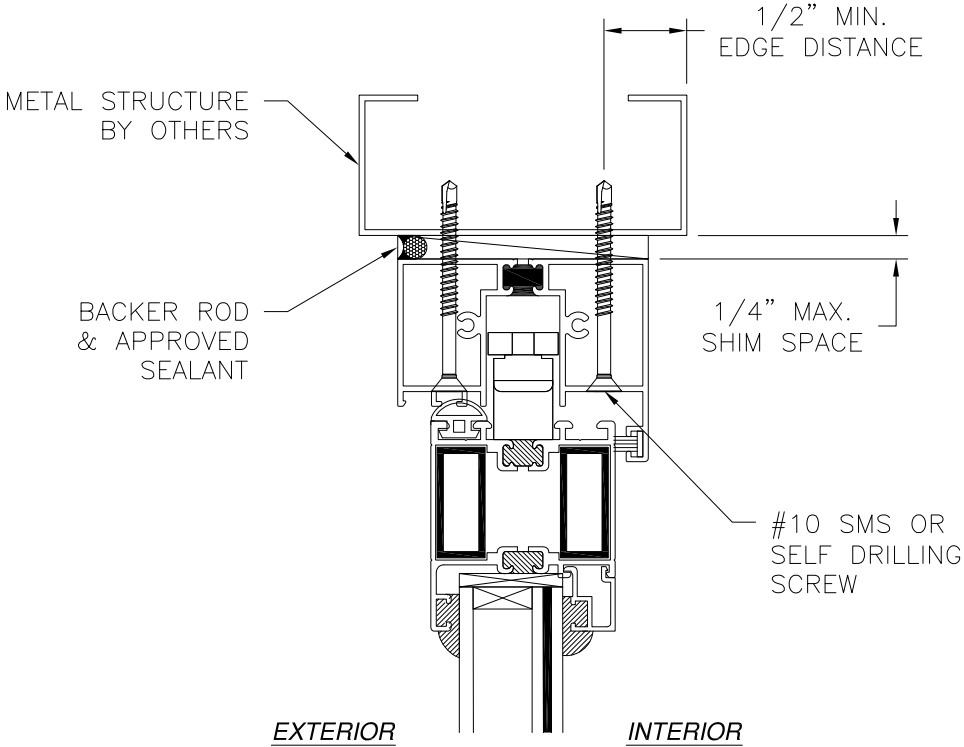
L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023
434-688-0609 rllomas@lrlomaspe.com

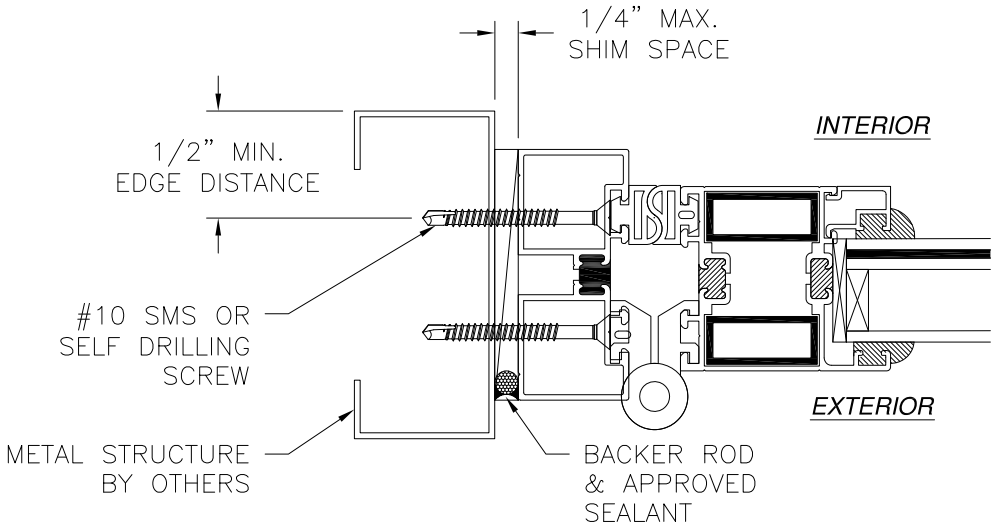
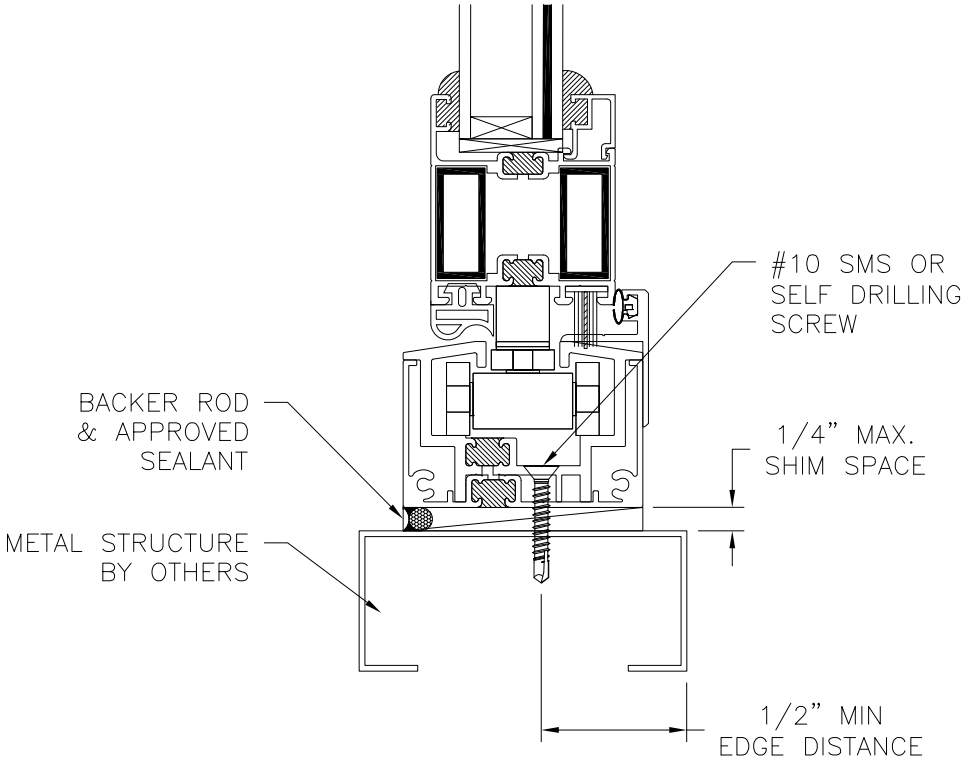


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

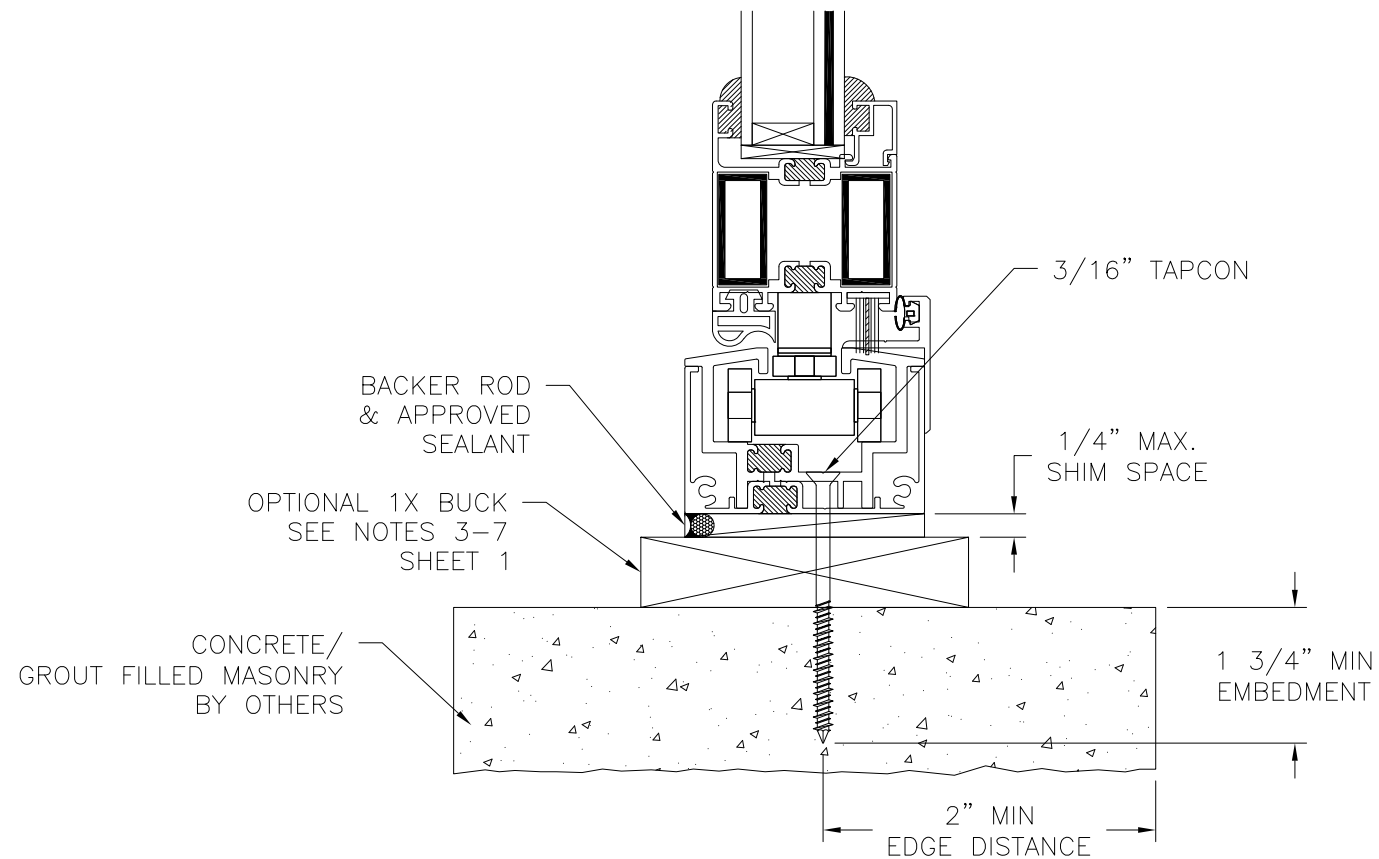
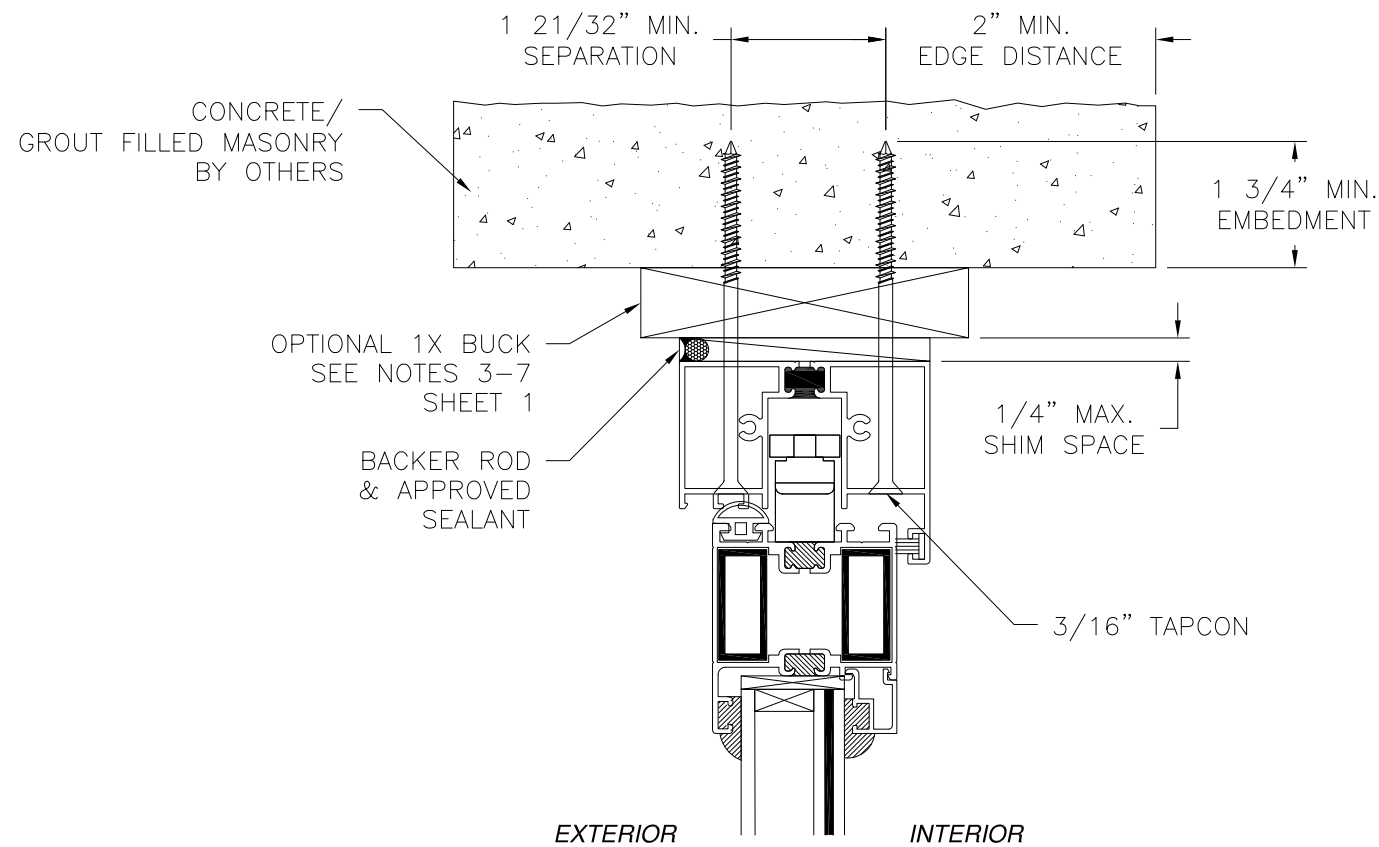
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 12/07/2020

E6 GLOBAL IPA, LLC. 12-1394, 369 GANGNAM-DAERO, SEOCHO-GU SEOUL 06621, SOUTH KOREA		
AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03544	REV -
SCALE NTS	DATE 11/10/2020	SHEET 4 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

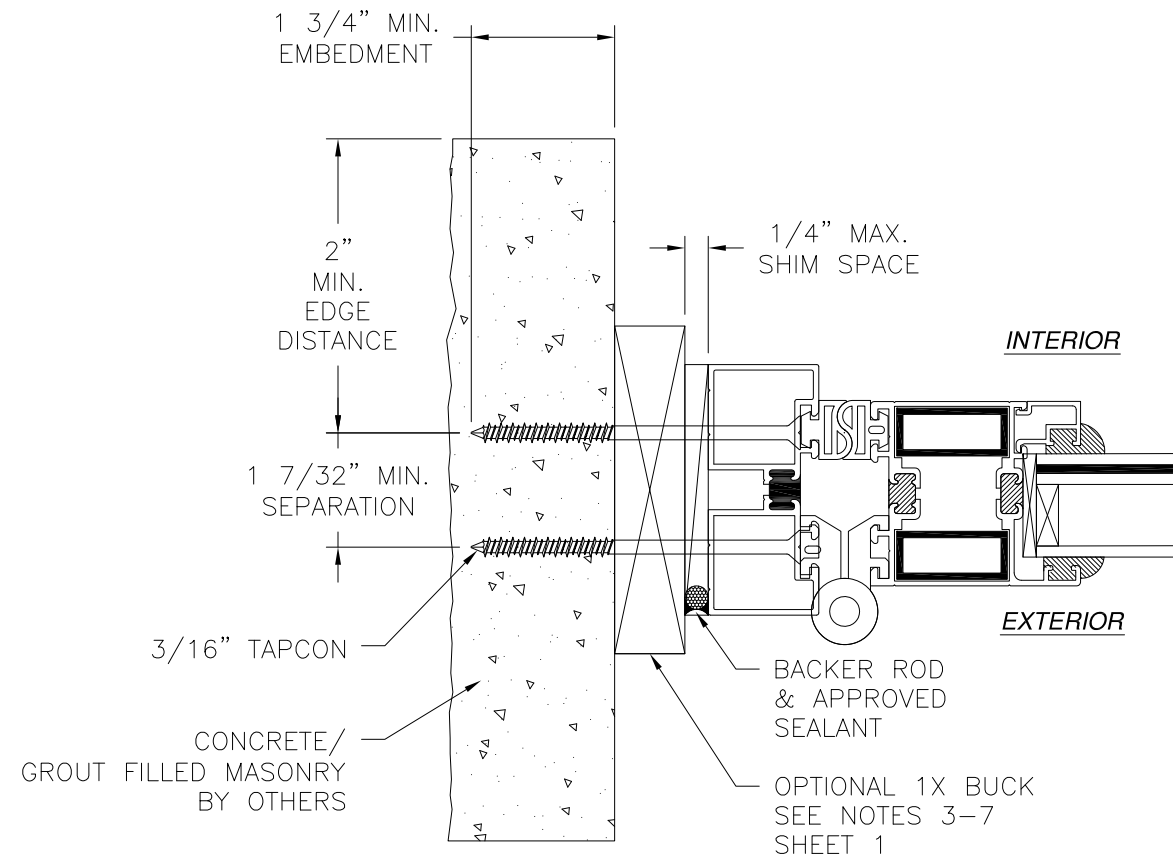


Luis R. Lomas P.E.
FL No.: 62514



VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



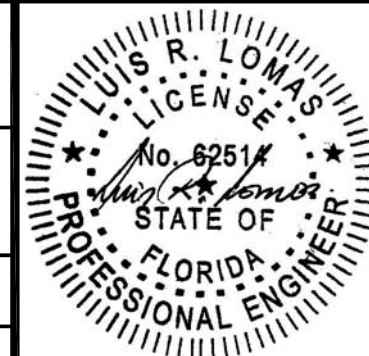
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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

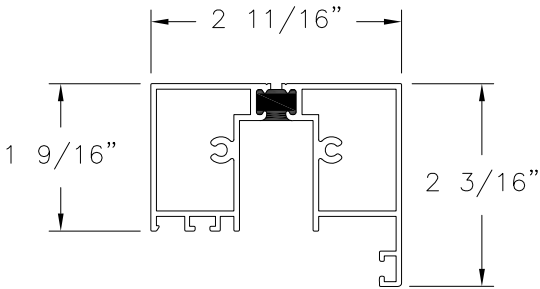
SIGNED: 12/07/2020

E6 GLOBAL IPA, LLC. 12-1394, 369 GANGNAM-DAERO, SEOCHO-GU SEOUL 06621, SOUTH KOREA		
AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03544	REV -
SCALE NTS	DATE 11/10/2020	SHEET 5 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

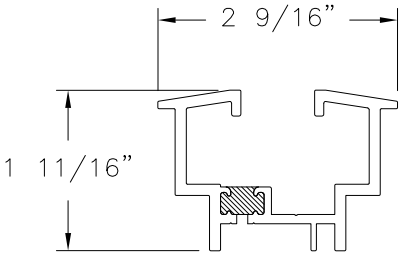


Luis R. Lomas P.E.
FL No.: 62514

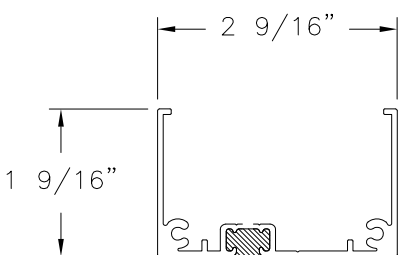
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



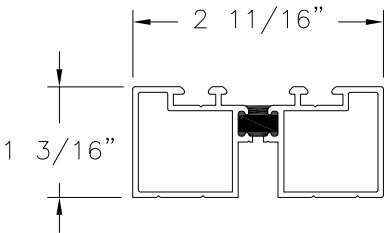
TOP TRACK
ALUMINUM 6063-T5



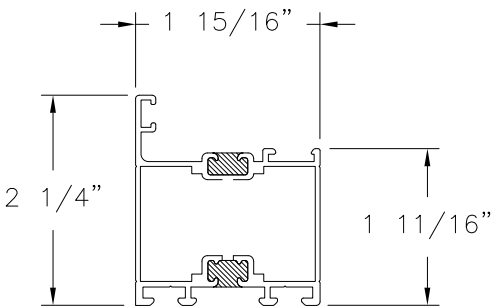
BOTTOM TRACK
ALUMINUM 6063-T5



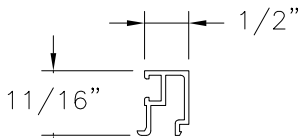
BOTTOM TRACK COVER
ALUMINUM 6063-T5



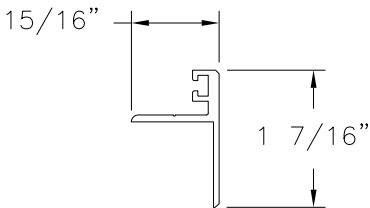
SIDE FRAME
ALUMINUM 6063-T5



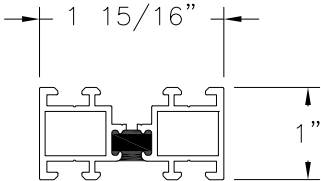
DOOR FRAME
ALUMINUM 6063-T5



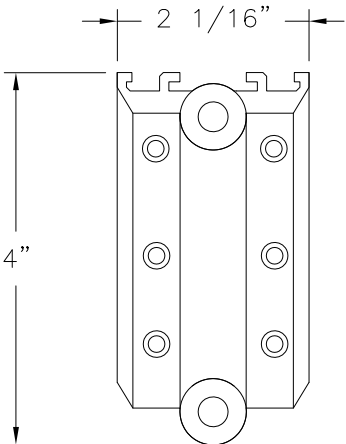
GLASS RETAINING STRIP
ALUMINUM 6063-T5



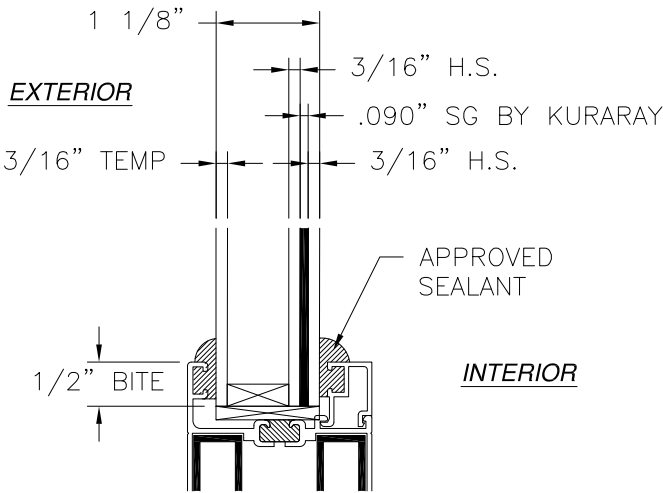
WINDOW FLANGE
ALUMINUM 6063-T5



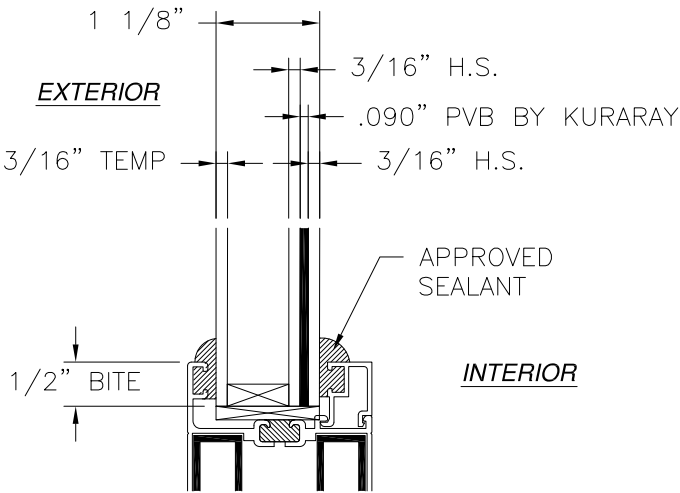
SLIDE BAR
ALUMINUM 6063-T5



HINGE
ALUMINUM 6063-T5



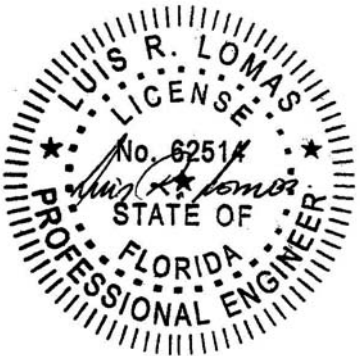
GLAZING DETAIL GL2



GLAZING DETAIL GL1

E6 GLOBAL IPA, LLC. 12-1394, 369 GANGNAM-DAERO, SEOCHO-GU SEOUL 06621, SOUTH KOREA		
AZ57-HW TWIN CORE ALUMINUM BIFOLD DOORS IMPACT COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03544	REV -
SCALE NTS	DATE 11/10/2020	SHEET 6 OF 6
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		

SIGNED: 12/07/2020



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