

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” WINDOW 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. WINDOW 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 WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION 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: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 2 FOR GLASS DETAILS.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 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 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.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

17. 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. 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: HOLLOW/FILLED BLOCK PER ASTM C90 WITH f’m=2,000PSI MINIMUM.

D. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T5 FU=30KSI 1/8” THICK MINIMUM
20. APPROVED CONFIGURATIONS: OX AND XO.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3 – 6	INSTALLATION DETAILS

REVISIONS

REV	DESCRIPTION	DATE
A	REVISED PER NEW CODE	12/04/14
B	REVISED INSTALL DETAILS	08/04/15
C	REVISED GLAZING DETAILS	08/25/26

VIVINCO, INC.

MORGANTOWN BUSINESS PARK, P.O. BOX 499

MORGANTOWN, PA 19543

623.620PD-004 IMPACT PATIO DOOR XO, SGD

96" X 96"

NOTES

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIANLANTIC, FL 32903

434-688-0609 rilomas@rlomaspe.com

DWG NO.

08-01470C

SHEET

1 OF 6

SCALE

NTS

REV

C

FPA

-

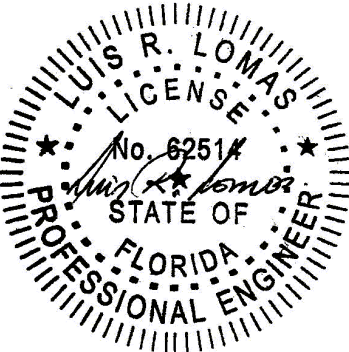
DRAWN

A.S.

DATE:

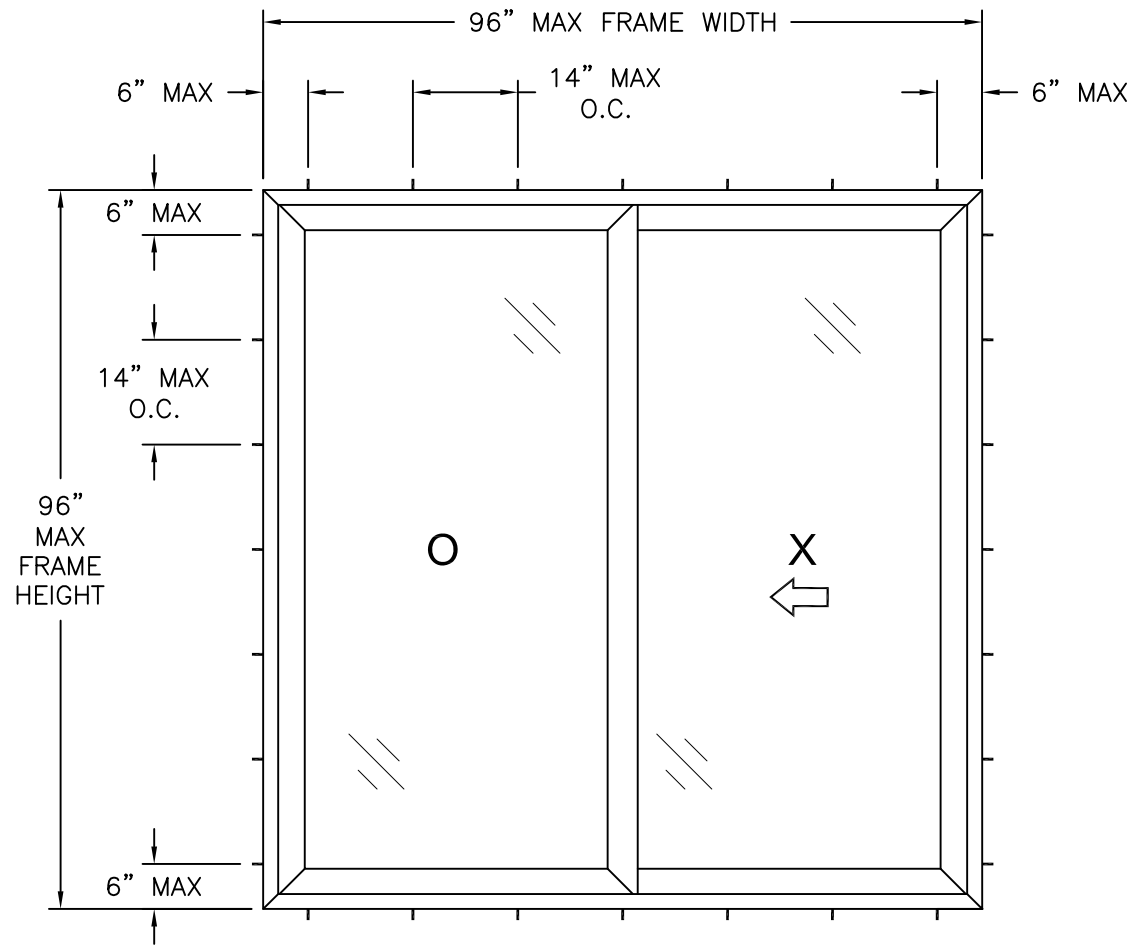
03/30/12

SIGNED: 08/25/2026

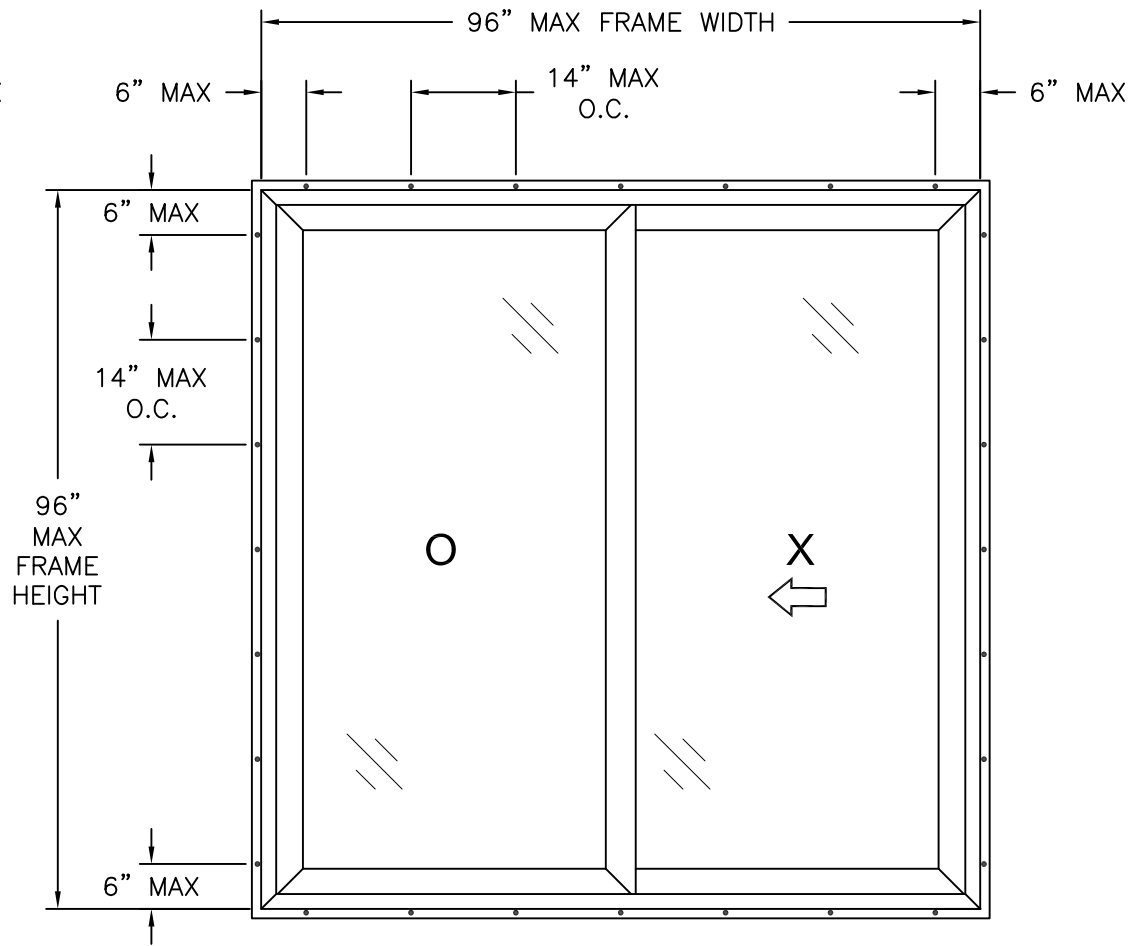


Luis R. Lomas P.E.

FL No.: 62514



623.620PD-004 IMPACT PATIO DOOR
EXTERIOR VIEW
FRAME INSTALLATION



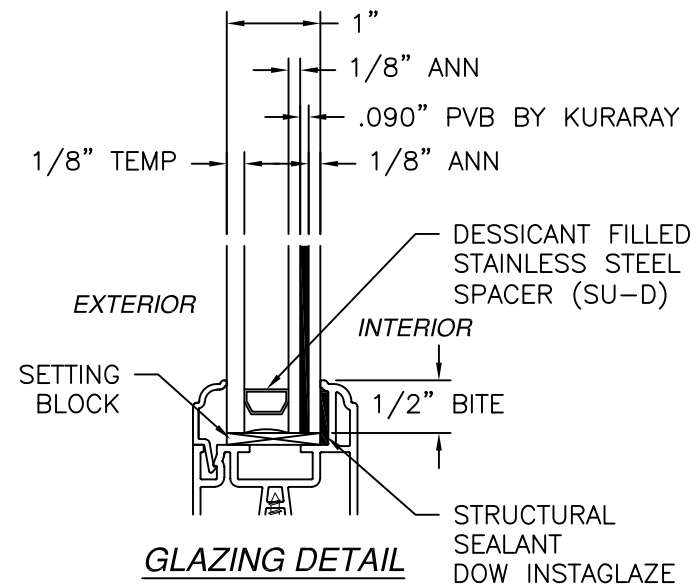
623.620PD-004 IMPACT PATIO DOOR
EXTERIOR VIEW
FIN INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

- NOTES:
1. MAXIMUM PANEL SIZE: 48 1/8" X 92 7/8"
 2. MAXIMUM D.L.O.: 40" X 84 3/4"

HARDWARE SCHEDULE	
A.	(1) HANDLE AND LOCK ASSEMBLYH AT LOCK STILE
B.	(2) METAL ROOLER ASSEMBLY AT EACH END OF BOTTOM RAIL
C.	(2) ALUMINUM L BRACKET AT EACH END OF FIXED MEETING STILE
D.	EXTRUDED ALUMINUM REINFORCEMENT (10300149) AT FRAME MEMBERS
E.	EXTRUDED ALUMINUM REINFORCEMENT (10300151) AT MEETING STILES
F.	EXTRUDED ALUMINUM REINFORCEMENT (10300150) AT JAMB STILES
G.	EXTRUDED ALUMINUM REINFORCEMENT (10300152) AT BOTTOM RAIL OF OPERABLE PANEL



REVISIONS		DATE
REV	DESCRIPTION	
A	REVISED PER NEW CODE	12/04/14
B	REVISED INSTALL DETAILS	08/04/15
C	REVISED GLAZING DETAILS	08/25/26

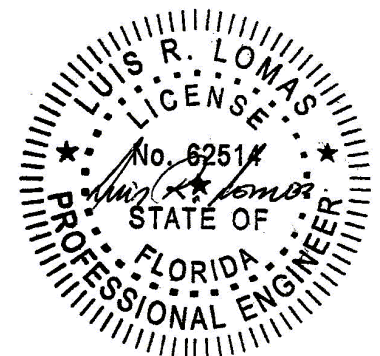
VIVINCO, INC.
MORGANTOWN BUSINESS PARK, P.O. BOX 499
MORGANTOWN, PA 19543

623.620PD-004 IMPACT PATIO DOOR XO, SGD
96" X 96"
ELEVATIONS

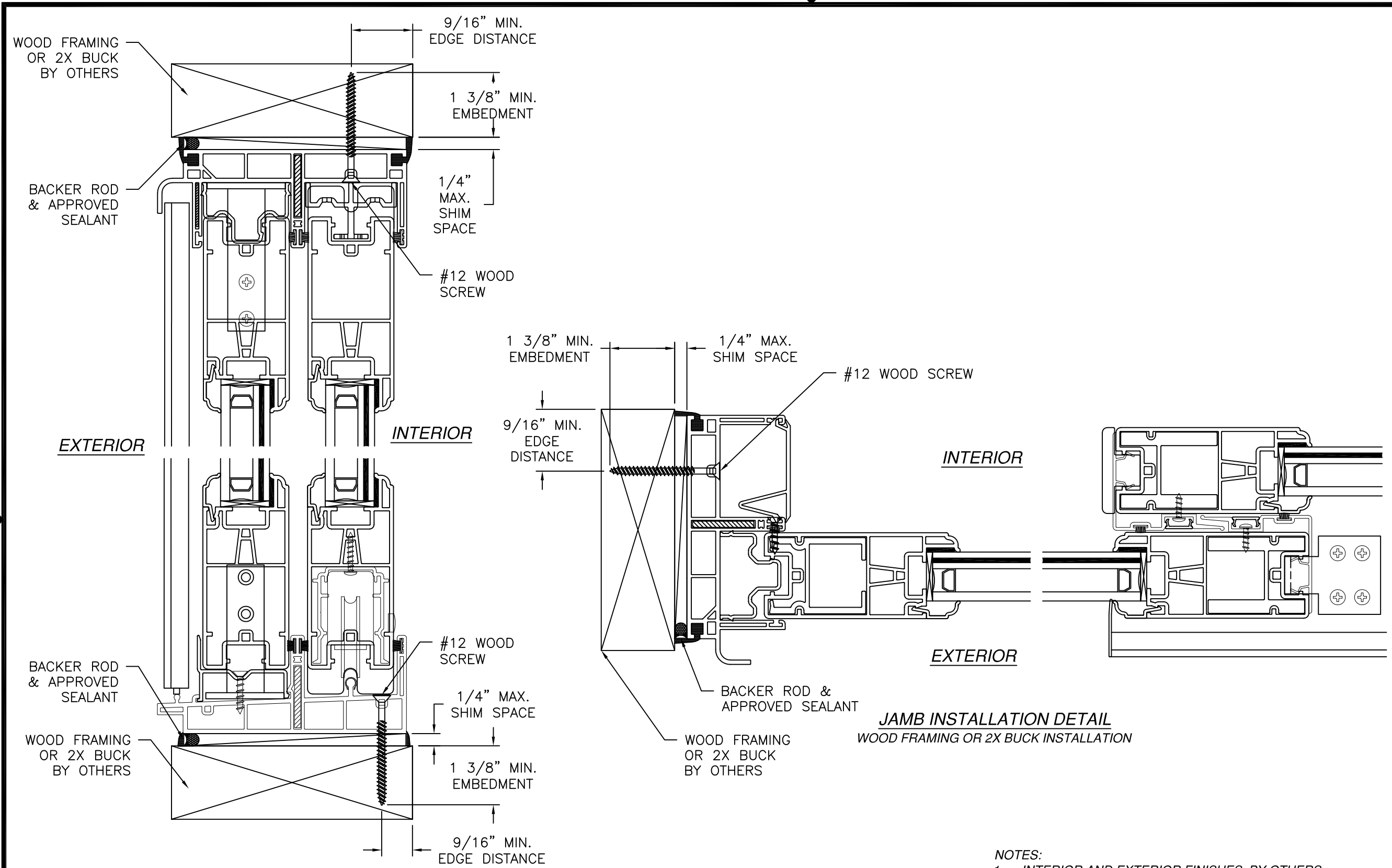
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rlomas@rlomaspe.com

DWG NO. 08-01470C	SHEET 2 OF 6
SCALE NTS	REV C FPA -
DRAWN A.S.	DATE: 03/30/12

SIGNED: 08/25/2026



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



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

REVISIONS		DATE
REV	DESCRIPTION	
A	REVISED PER NEW CODE	12/04/14
B	REVISED INSTALL DETAILS	08/04/15
C	REVISED GLAZING DETAILS	08/25/26

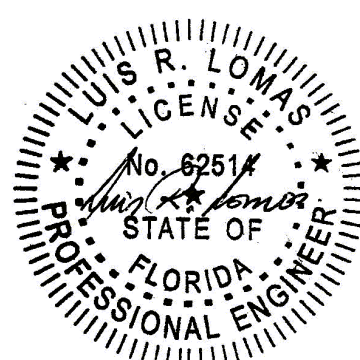
VIVINCO, INC.
MORGANTOWN BUSINESS PARK, P.O. BOX 499
MORGANTOWN, PA 19543

**623.620PD-004 IMPACT PATIO DOOR XO, SGD
96" X 96"**
INSTALLATION DETAILS

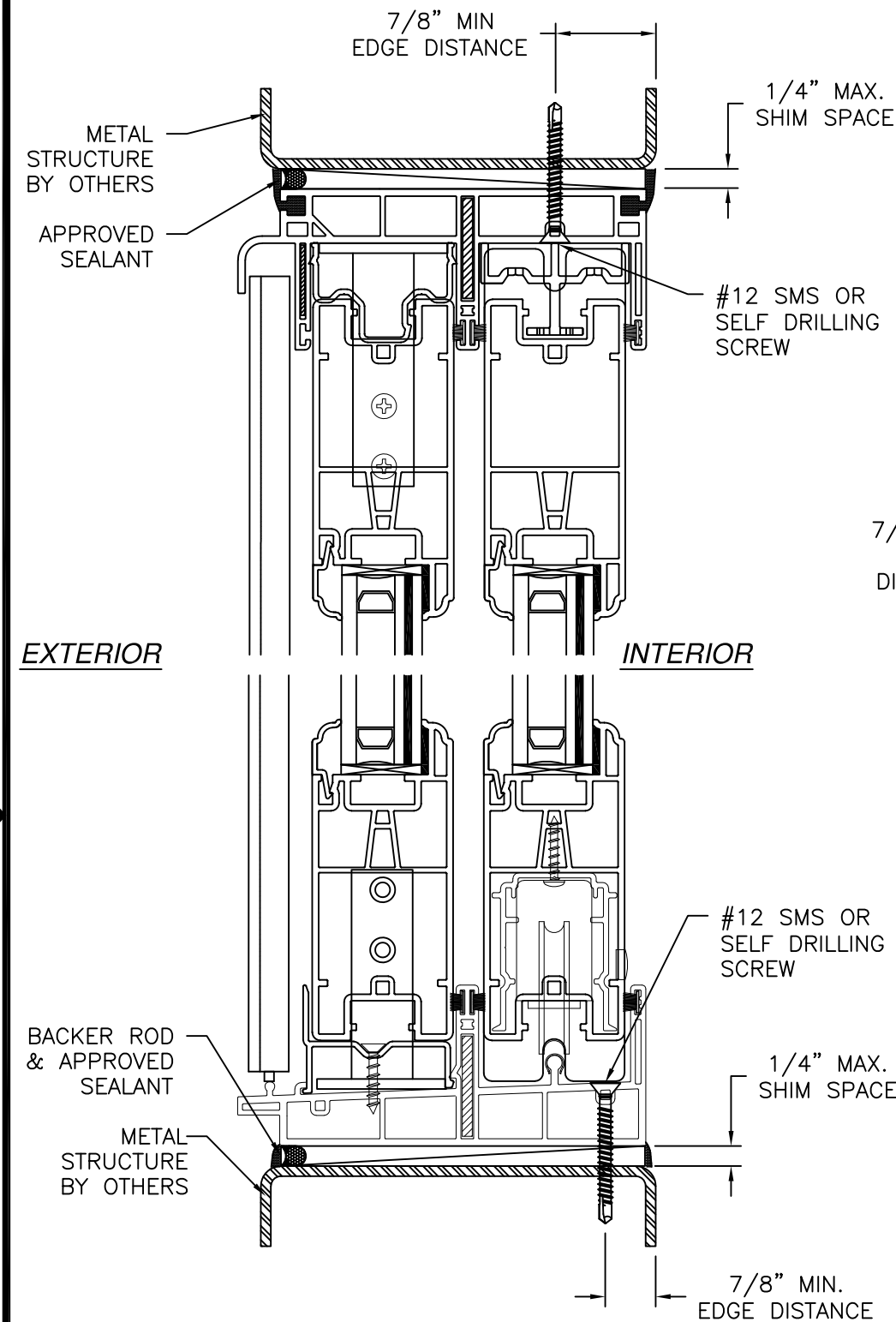
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIANALANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

DWG NO. 08-01470C	SHEET 3 OF 6
SCALE NTS	REV C FPA -
DRAWN A.S.	DATE: 03/30/12

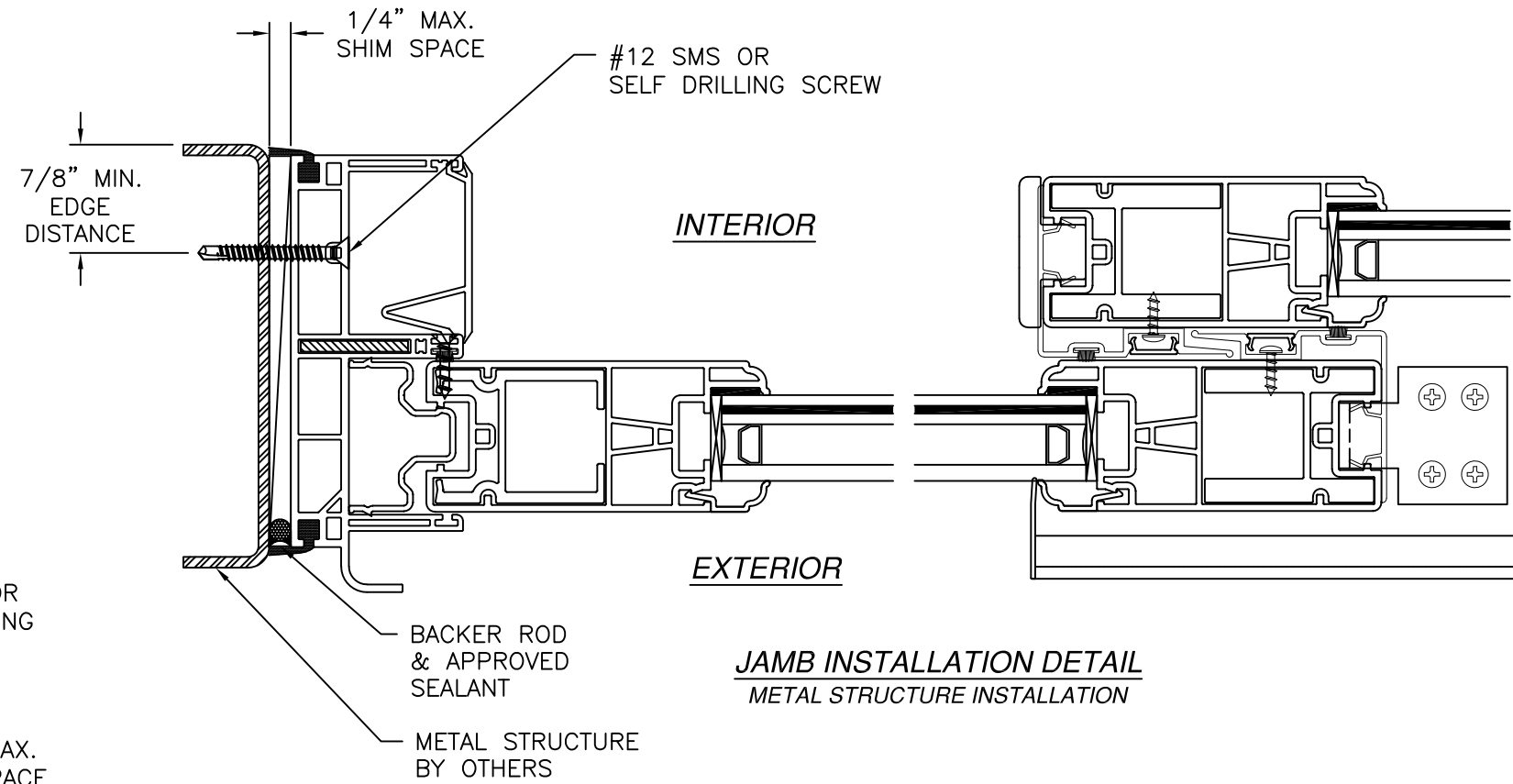
SIGNED: 08/25/2026



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



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

REVISIONS		DATE
REV	DESCRIPTION	
A	REVISED PER NEW CODE	12/04/14
B	REVISED INSTALL DETAILS	08/04/15
C	REVISED GLAZING DETAILS	08/25/26

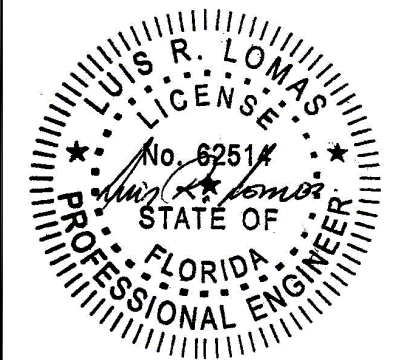
VIVINCO, INC.
MORGANTOWN BUSINESS PARK, P.O. BOX 499
MORGANTOWN, PA 19543

623.620PD-004 IMPACT PATIO DOOR XO, SGD
96" X 96"
INSTALLATION DETAILS

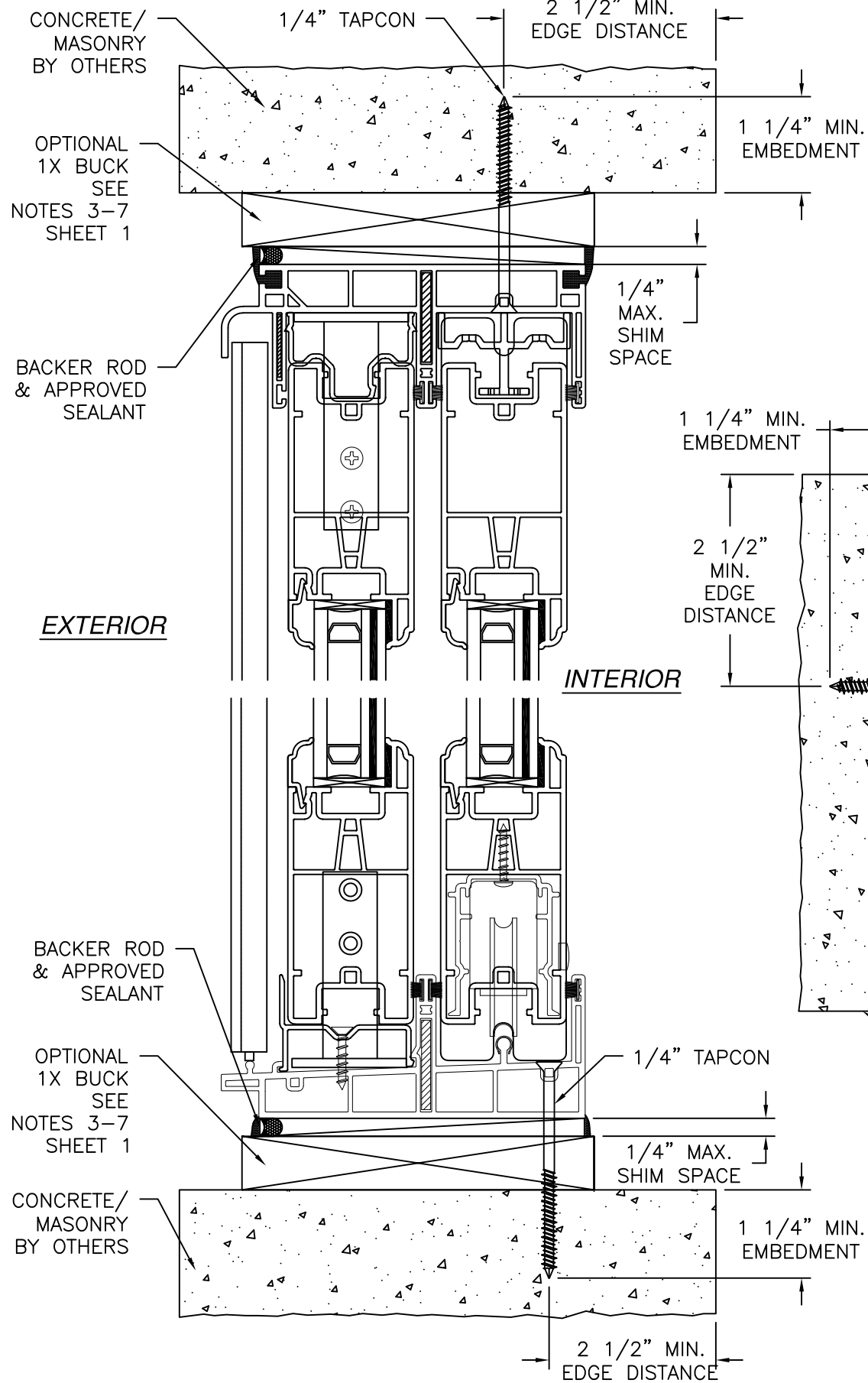
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIANLANTIC, FL 32903
434-688-0609 rllomas@rlomaspe.com

DWG NO. 08-01470C	SHEET 4 OF 6
SCALE NTS	REV C FPA -
DRAWN A.S.	DATE: 03/30/12

SIGNED: 08/25/2026



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



VERTICAL CROSS SECTION
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

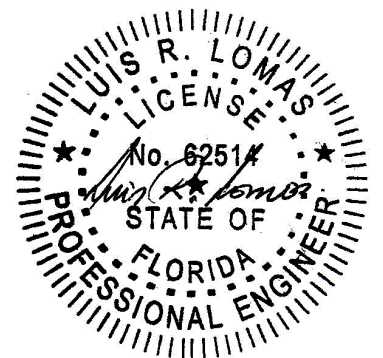
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

REVISIONS		DATE
REV	DESCRIPTION	
A	REVISED PER NEW CODE	12/04/14
B	REVISED INSTALL DETAILS	08/04/15
C	REVISED GLAZING DETAILS	08/25/26

VIVINCO, INC. MORGANTOWN BUSINESS PARK, P.O. BOX 499 MORGANTOWN, PA 19543		623.620PD-004 IMPACT PATIO DOOR XO, SGD 96" X 96" INSTALLATION DETAILS
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIANLANTIC, FL 32903 434-688-0609 rllomas@rlomaspe.com		

DWG NO. 08-01470C	SHEET 5 OF 6
SCALE NTS	REV C FPA -
DRAWN A.S.	DATE: 03/30/12

SIGNED: 08/25/2026



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

APPROVED SEALANT BEHIND FIN
#8 WOOD SCREW
7/16" MIN EDGE DISTANCE
1 1/4" MIN. EMBEDMENT
WOOD FRAMING BY OTHERS
1/4" MAX. SHIM SPACE

EXTERIOR

INTERIOR

WOOD FRAMING BY OTHERS
#8 WOOD SCREW
1 1/4" MIN. EMBEDMENT
APPROVED SEALANT BEHIND FIN
7/16" MIN EDGE DISTANCE
1/4" MAX SHIM SPACE

INTERIOR

EXTERIOR

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

7/16" MIN EDGE DISTANCE
#8 WOOD SCREW
APPROVED SEALANT BEHIND FIN
1 1/4" MIN. EMBEDMENT
WOOD FRAMING BY OTHERS
1/4" MAX SHIM SPACE
VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

REVISIONS			DATE
REV	DESCRIPTION	REVISED PER NEW CODE	
A		12/04/14	
B		08/04/15	
C		08/25/26	

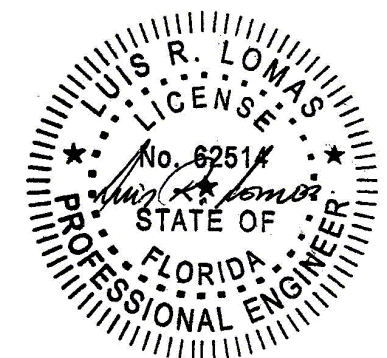
VIVINCO, INC.
MORGANTOWN BUSINESS PARK, P.O. BOX 499
MORGANTOWN, PA 19543

623.620PD-004 IMPACT PATIO DOOR XO, SGD
96" X 96"
INSTALLATION DETAILS

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIANLANTIC, FL 32903
434-688-0609 rlomas@rlomaspe.com

DWG NO. 08-01470C	SHEET 6 OF 6
SCALE NTS	REV C FPA -
DRAWN A.S.	DATE: 03/30/12

SIGNED: 08/25/2026



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