

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, METAL STRUCTURE 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. 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: EXTRUDED RIGID PVC.
11. UNITS MUST BE GLAZED PER ASTM E1300.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. 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.
14. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #8 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. 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.
16. 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 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. 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.
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: 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
20. APPROVED CONFIGURATIONS: OX AND XO.

SIGNED: 04/11/2025

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 4	ELEVATIONS
5	CHART, CROSS SECTION & COMPONENTS
6 - 11	INSTALLATION DETAILS

KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08-04128

REV
-

SCALE NTS

DATE 03/10/25

SHEET 1 OF 11

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

Luis R. Lomas P.E.

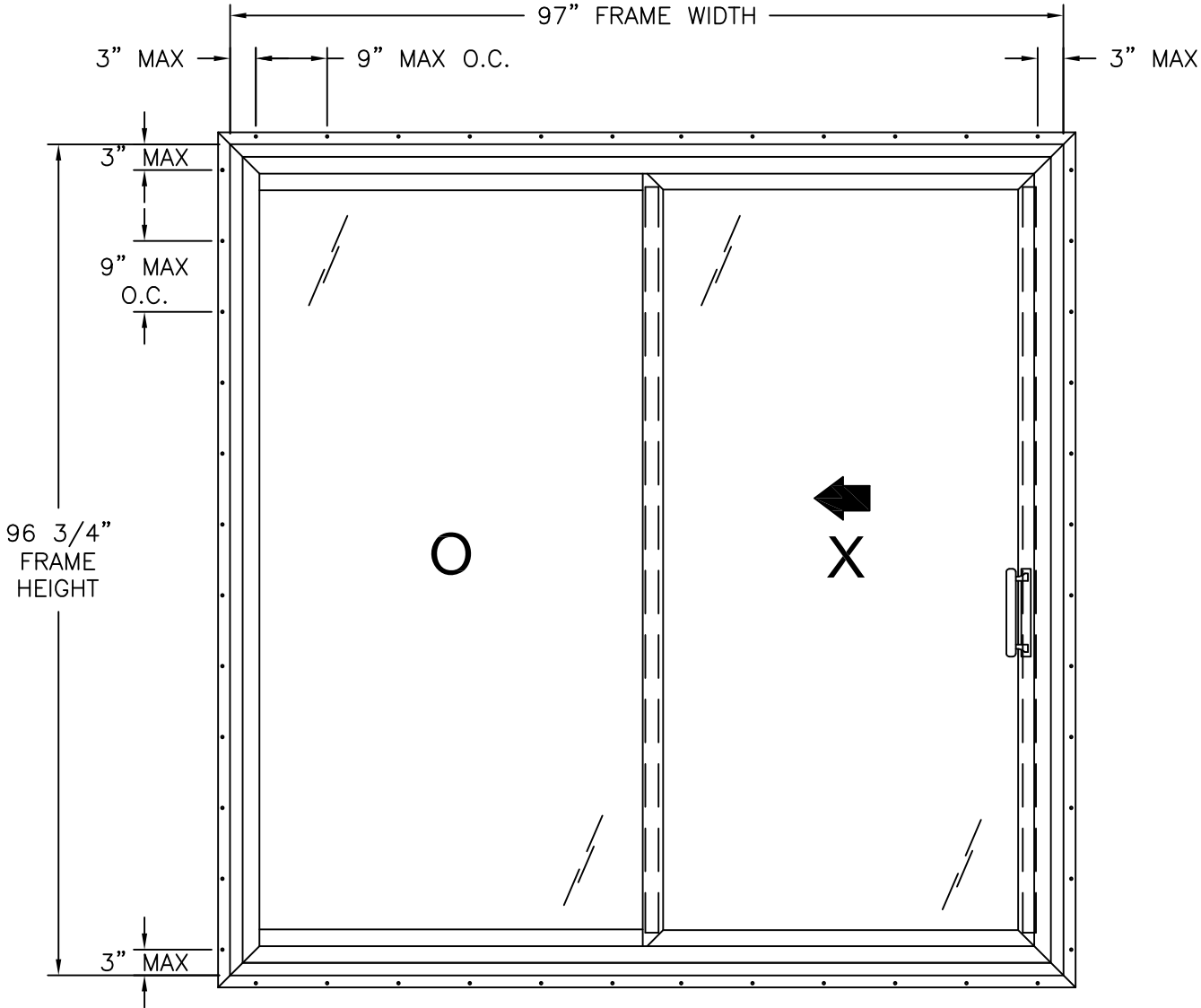
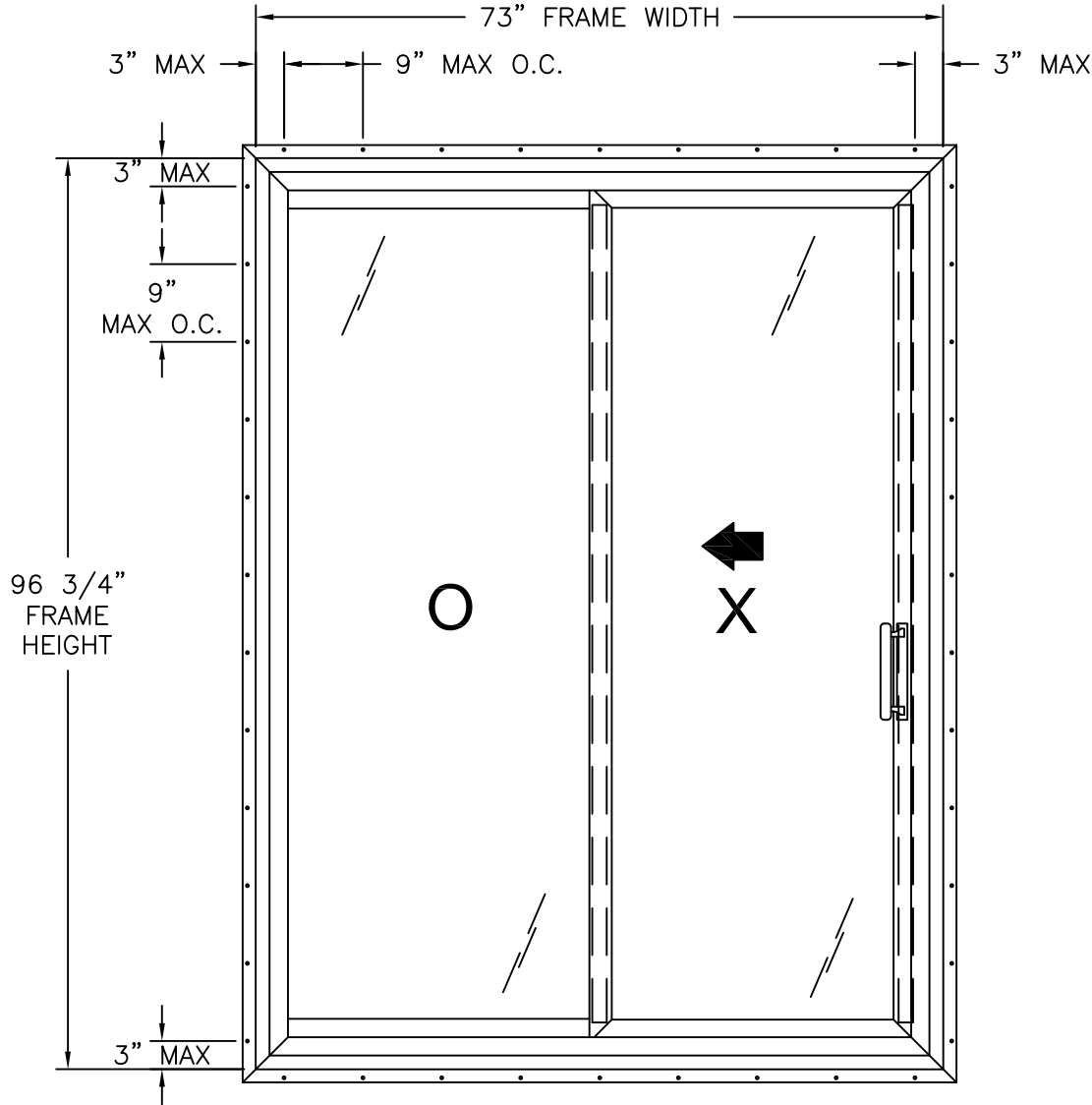
FL No.: 62514

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
-----	-------------	------	----------



800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

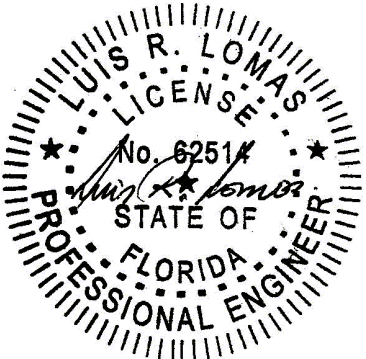
HARDWARE SCHEDULE	
A.	(1) HANDLE/LOCK ASSY WITH MORTISE LOCK AND KEEPER AT LOCK STILE
B.	(2) DUAL STEEL ROLLER ASSEMBLY AT EACH END OF BOTTOM RAIL
C.	(1) 3" LONG MOLDED RUBBER STOP AT SILL TRACK
D.	STEEL REINFORCEMENT (RFPD34SOM) AT FIXED MEETING STILE
E.	STEEL REINFORCEMENT (RFPD03SOM) AT LOCK STILE
F.	STEEL REINFORCEMENT (RFPD24SOM) AT INTERLOCK STILE

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
ELEVATIONS, PERIMETER ANCHORING

DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 2 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/11/2025



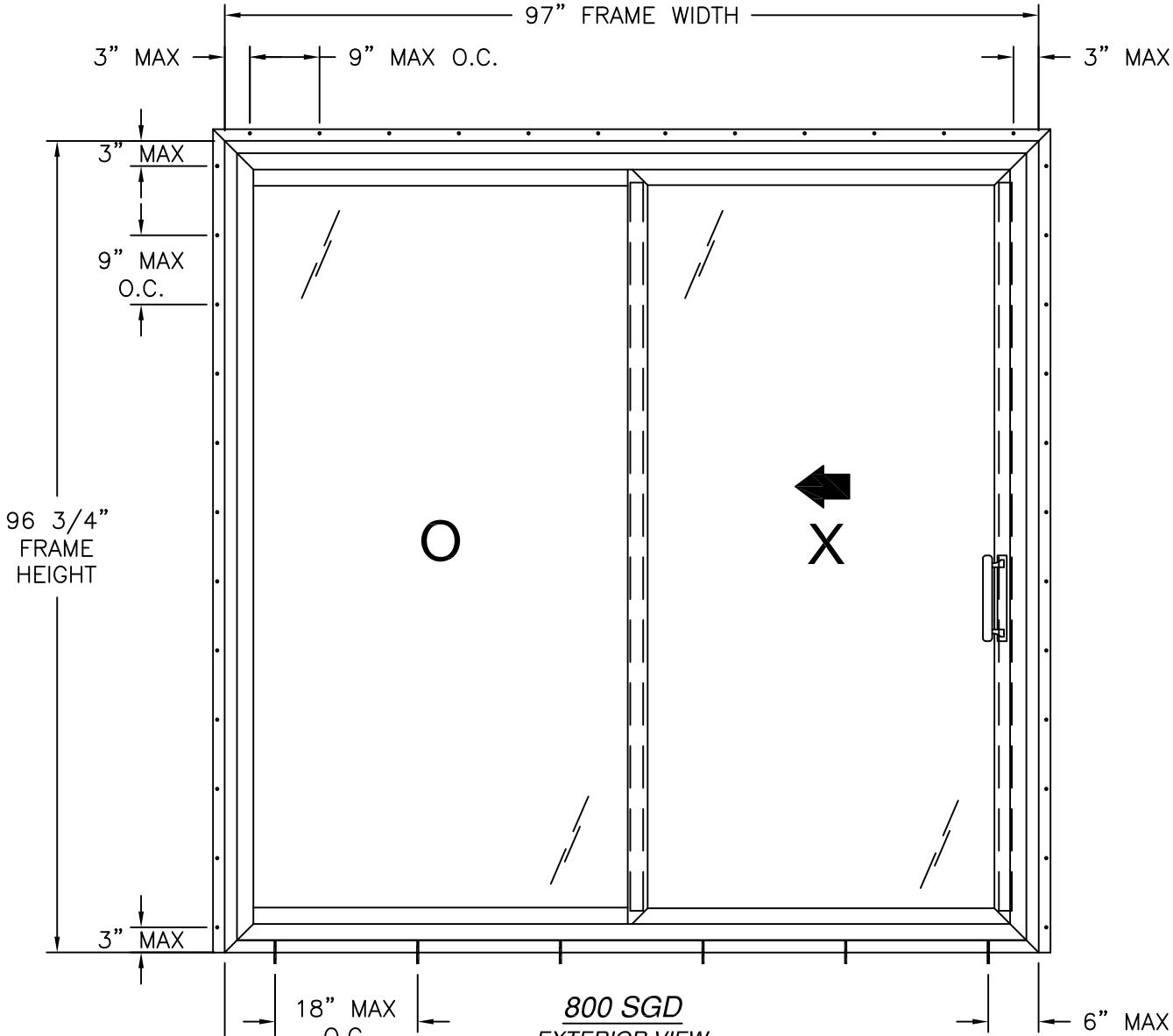
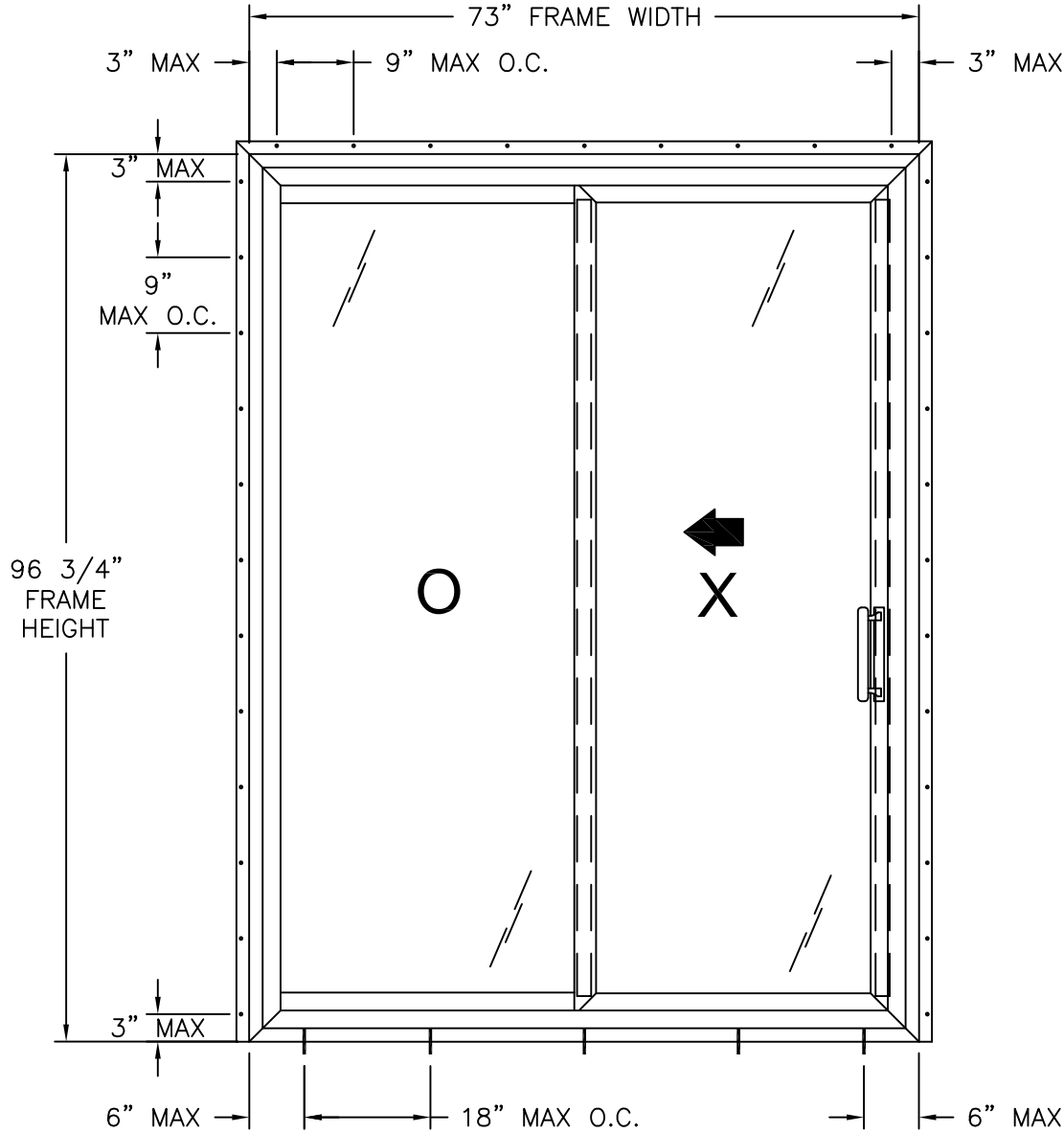
Luis R. Lomas P.E.
FL No.: 62514

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
-----	-------------	------	----------



800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

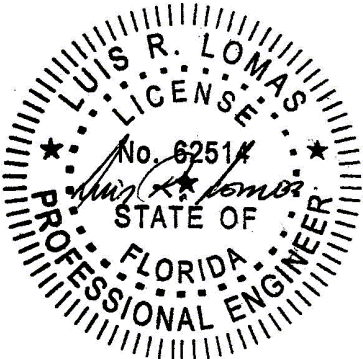
HARDWARE SCHEDULE	
A.	(1) HANDLE/LOCK ASSY WITH MORTISE LOCK AND KEEPER AT LOCK STILE
B.	(2) DUAL STEEL ROLLER ASSEMBLY AT EACH END OF BOTTOM RAIL
C.	(1) 3" LONG MOLDED RUBBER STOP AT SILL TRACK
D.	STEEL REINFORCEMENT (RFPD34SOM) AT FIXED MEETING STILE
E.	STEEL REINFORCEMENT (RFPD03SOM) AT LOCK STILE
F.	STEEL REINFORCEMENT (RFPD24SOM) AT INTERLOCK STILE

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
ELEVATIONS, PERIMETER AND FRAME ANCHORING

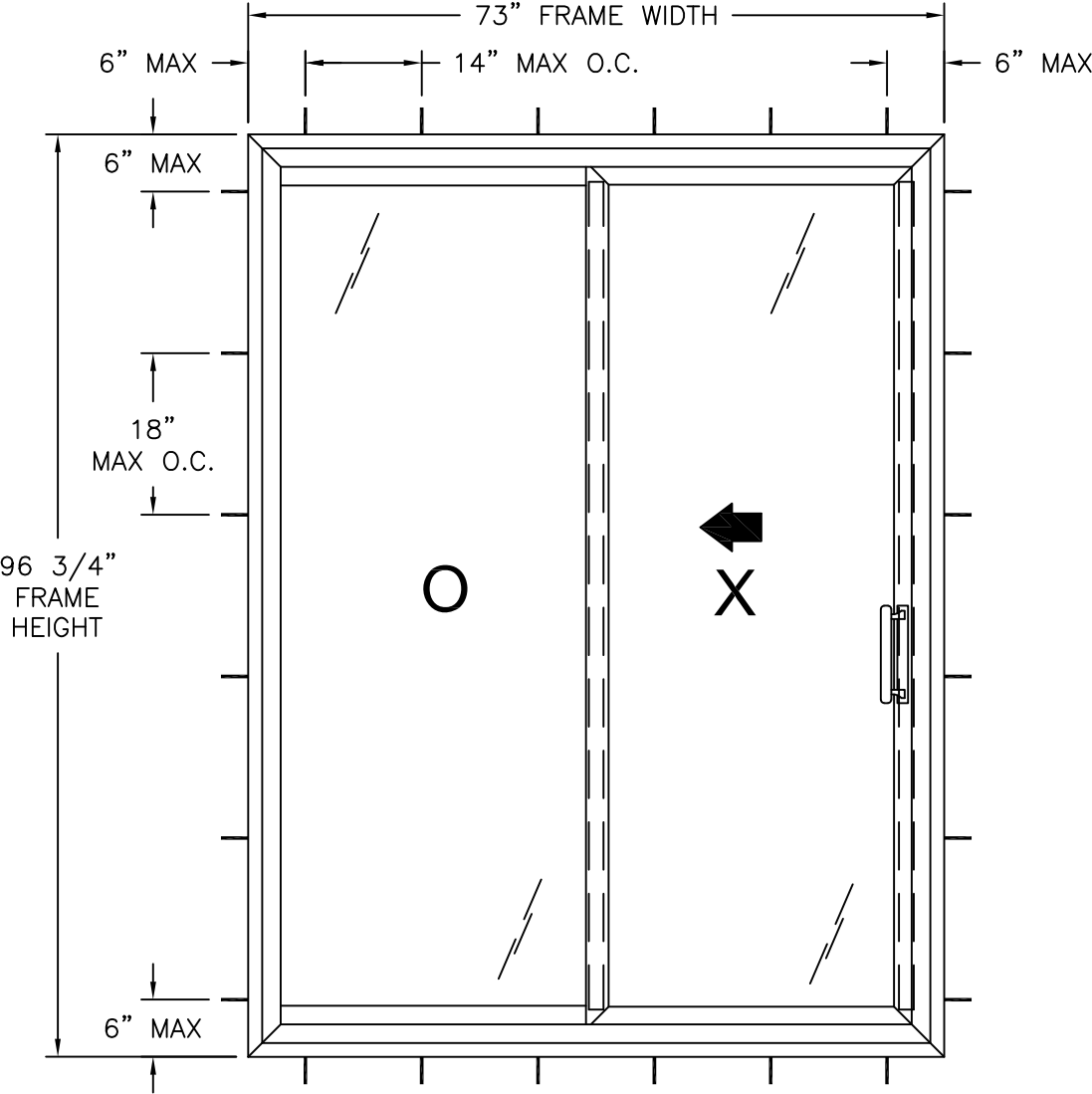
DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 3 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/11/2025



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

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"



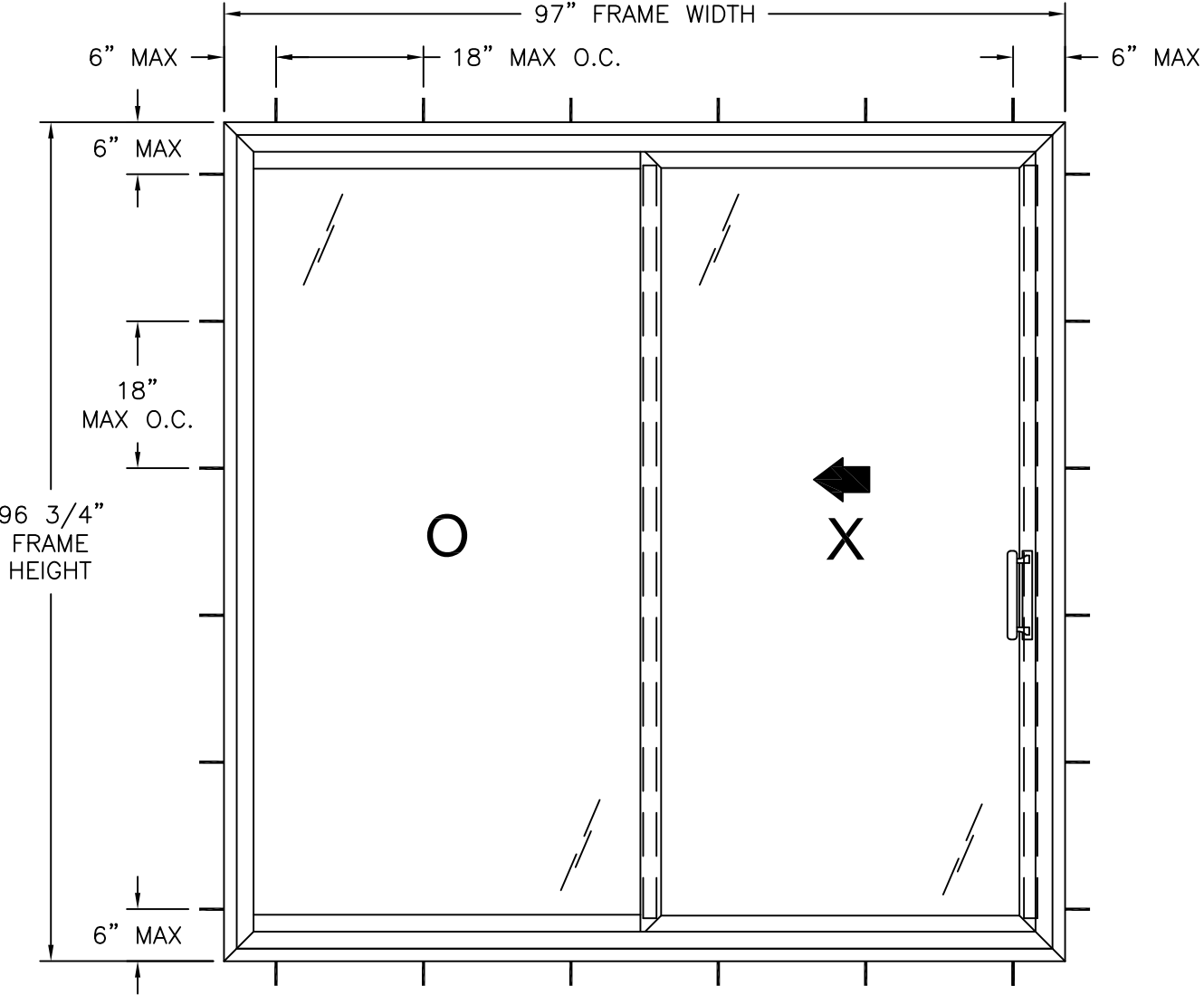
800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

HARDWARE SCHEDULE	
A.	(1) HANDLE/LOCK ASSY WITH MORTISE LOCK AND KEEPER AT LOCK STILE
B.	(2) DUAL STEEL ROLLER ASSEMBLY AT EACH END OF BOTTOM RAIL
C.	(1) 3" LONG MOLDED RUBBER STOP AT SILL TRACK
D.	STEEL REINFORCEMENT (RFPD34SOM) AT FIXED MEETING STILE
E.	STEEL REINFORCEMENT (RFPD03SOM) AT LOCK STILE
F.	STEEL REINFORCEMENT (RFPD24SOM) AT INTERLOCK STILE

SASH SIZE: 37" X 93 3/4"
D.L.O.: 32 1/4" X 89"



800 SGD
EXTERIOR VIEW
REINFORCED

DESIGN PRESSURE RATING	IMPACT RATING
±25.0PSF	NONE

FOR ADDITIONAL SIZES SEE CHART #1 SHEET 5

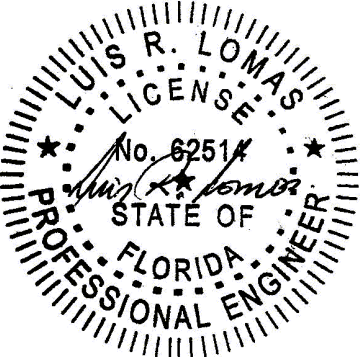
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
ELEVATIONS, FRAME ANCHORING

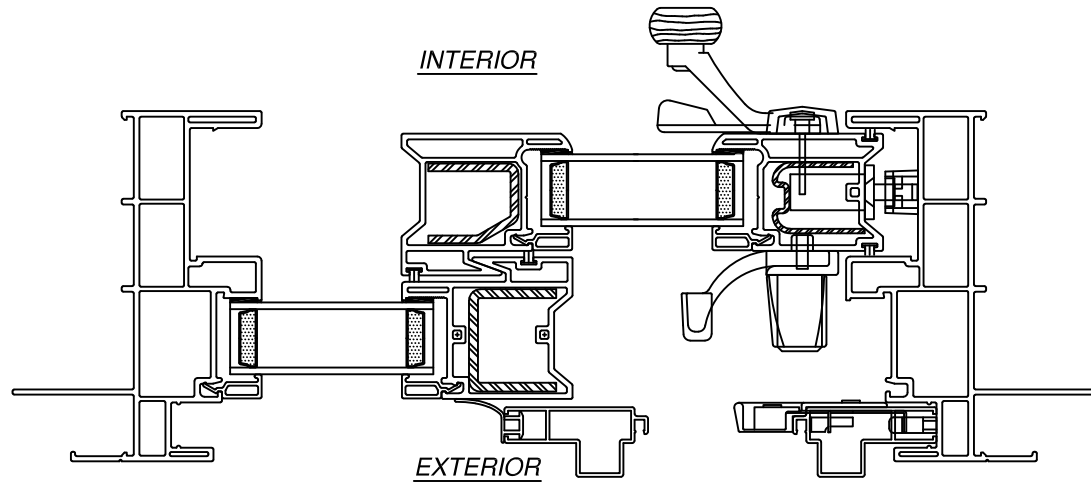
DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 4 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/11/2025

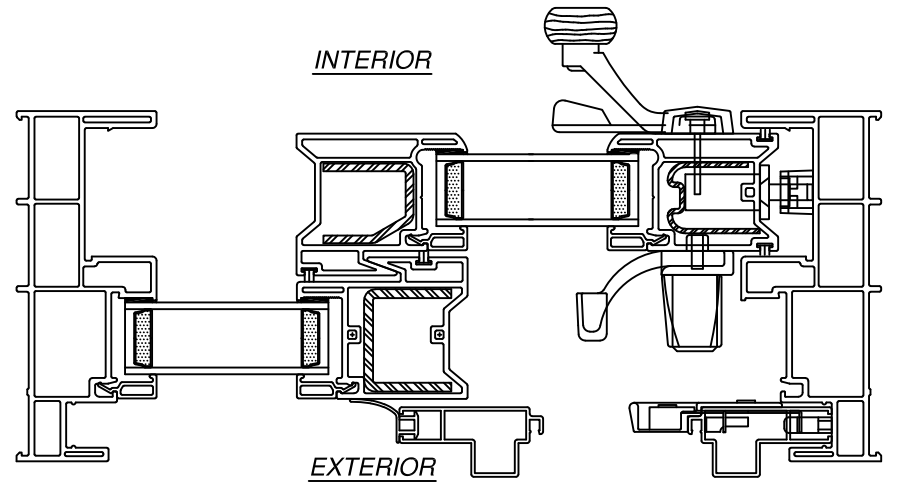


Luis R. Lomas P.E.
FL No.: 62514

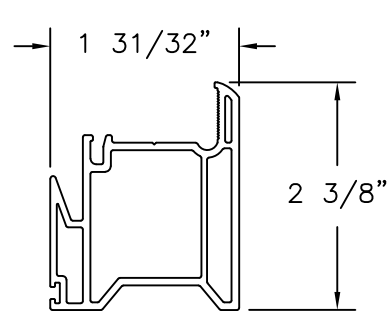
Chart #1												
Rating (psf)												
Frame Height (in)	Frame Width (in)											
	36.00		48.00		60.00		73.00		84.00		97.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
36.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0
42.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0
48.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0
54.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0
60.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0
66.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	59.4
72.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	60.0	45.0	56.7	45.0	52.7
78.00	45.0	60.0	45.0	60.0	45.0	60.0	45.0	55.8	45.0	50.9	45.0	46.0
84.00	45.0	60.0	45.0	60.0	45.0	58.3	45.0	50.7	45.0	45.1	39.2	39.2
90.00	45.0	60.0	45.0	60.0	45.0	54.2	45.0	45.7	39.2	39.2	32.5	32.5
96.75	45.0	60.0	45.0	59.2	45.0	49.5	40.0	40.0	32.7	32.7	25.0	25.0



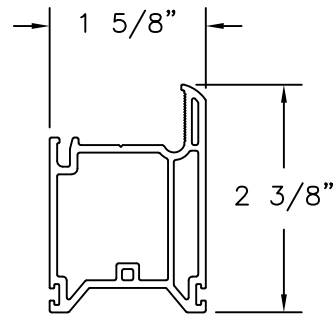
PERIMETER HORIZONTAL CROSS SECTION



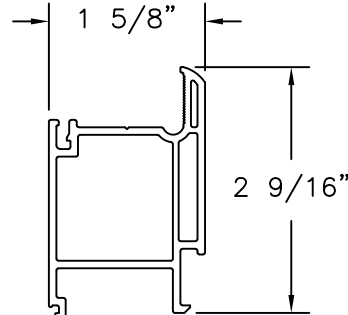
FRAME HORIZONTAL CROSS SECTION



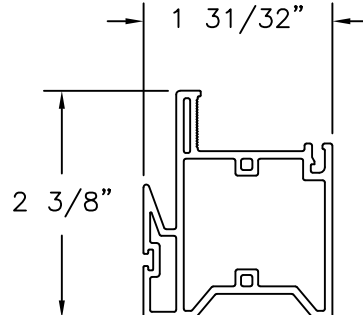
SASH INTERLOCK
RIGID PVC .079" THICK



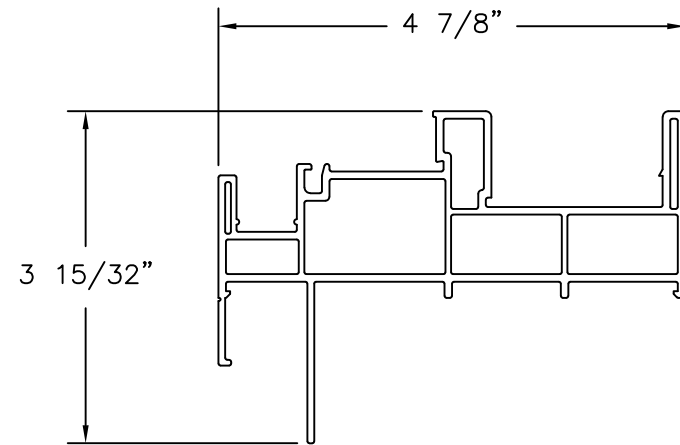
SASH STILE AND RAIL
RIGID PVC .079" THICK



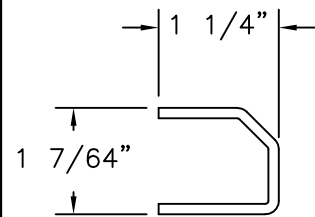
EQUAL GLASS ADAPTER
RIGID PVC .079" THICK



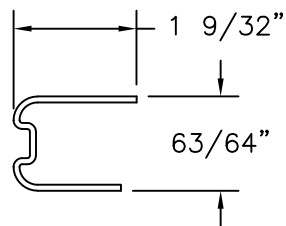
FIXED INTERLOCK
RIGID PVC .071" THICK



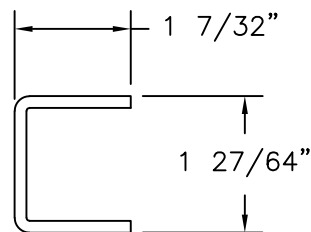
FRAME
RIGID PVC .079" THICK



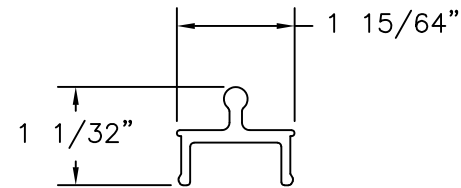
REINFORCEMENT
12GA. G90 GALVANIZED STEEL



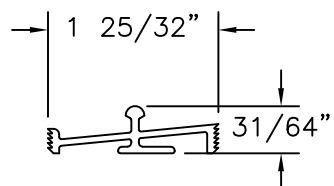
REINFORCEMENT
16GA. G90 GALVANIZED STEEL



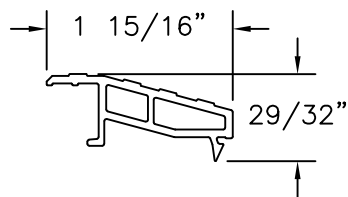
REINFORCEMENT
11GA. G90 GALVANIZED STEEL



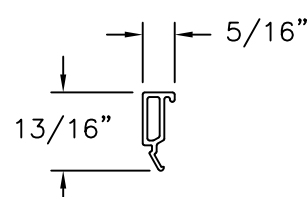
SCREEN TRACK
RIGID PVC .130" THICK



SILL TRACK
ALUMINUM 6005-T5, 6105-T5
.069" THICK



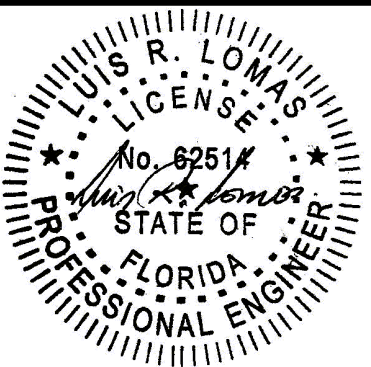
THRESHOLD
RIGID PVC .079" THICK



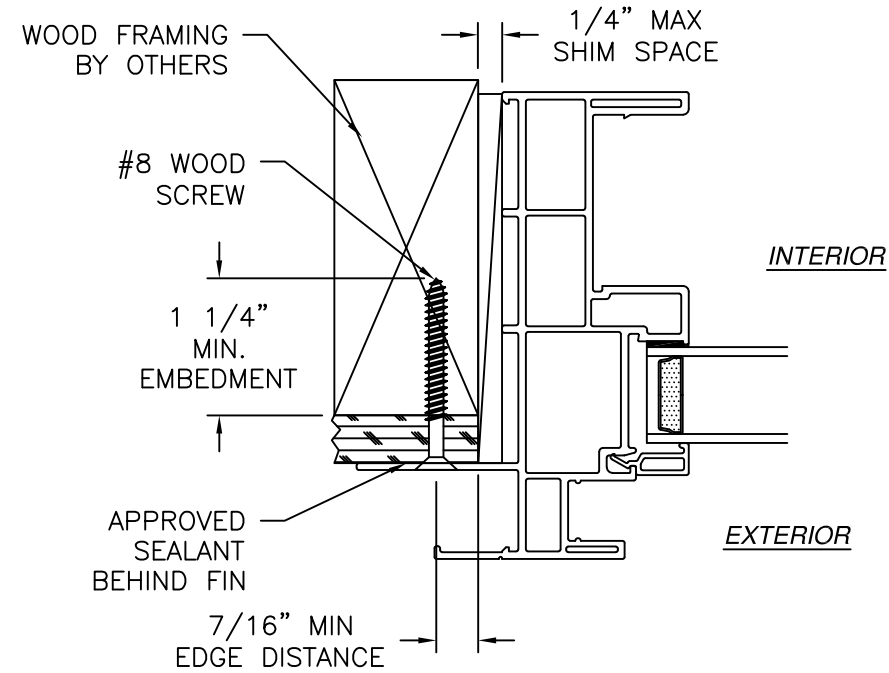
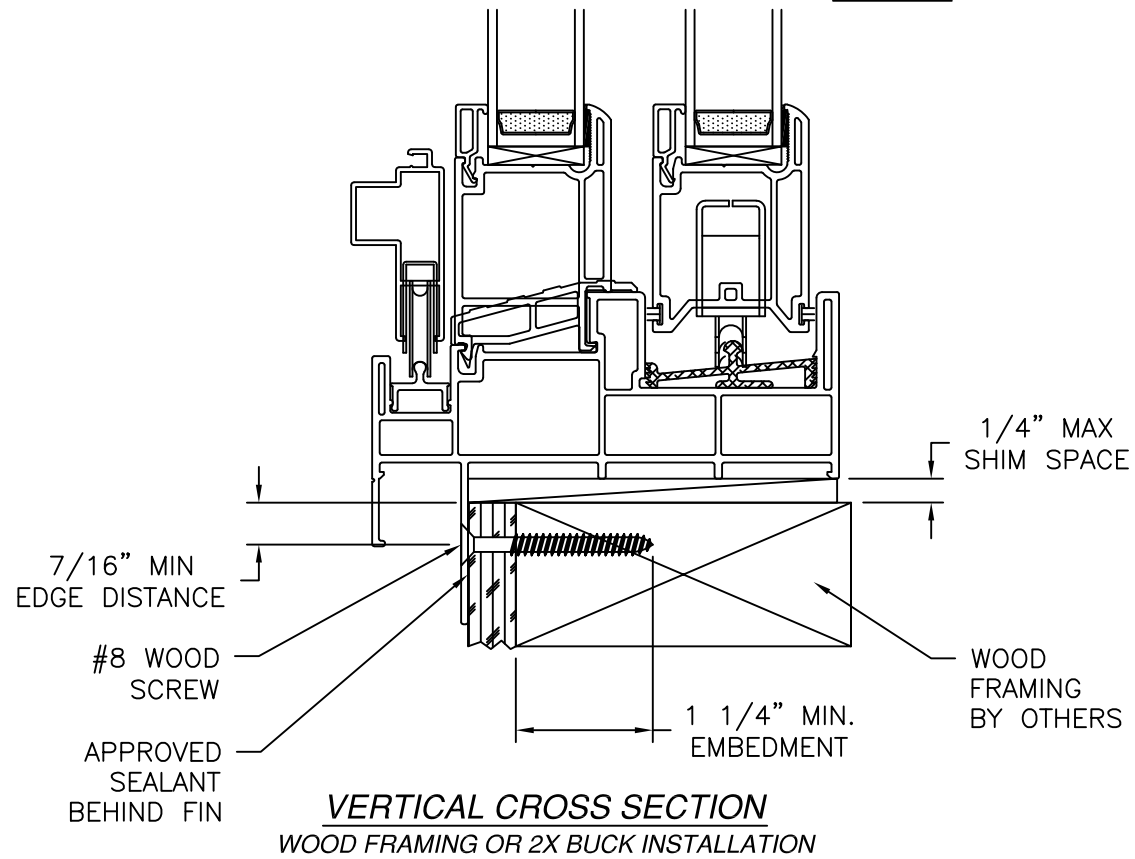
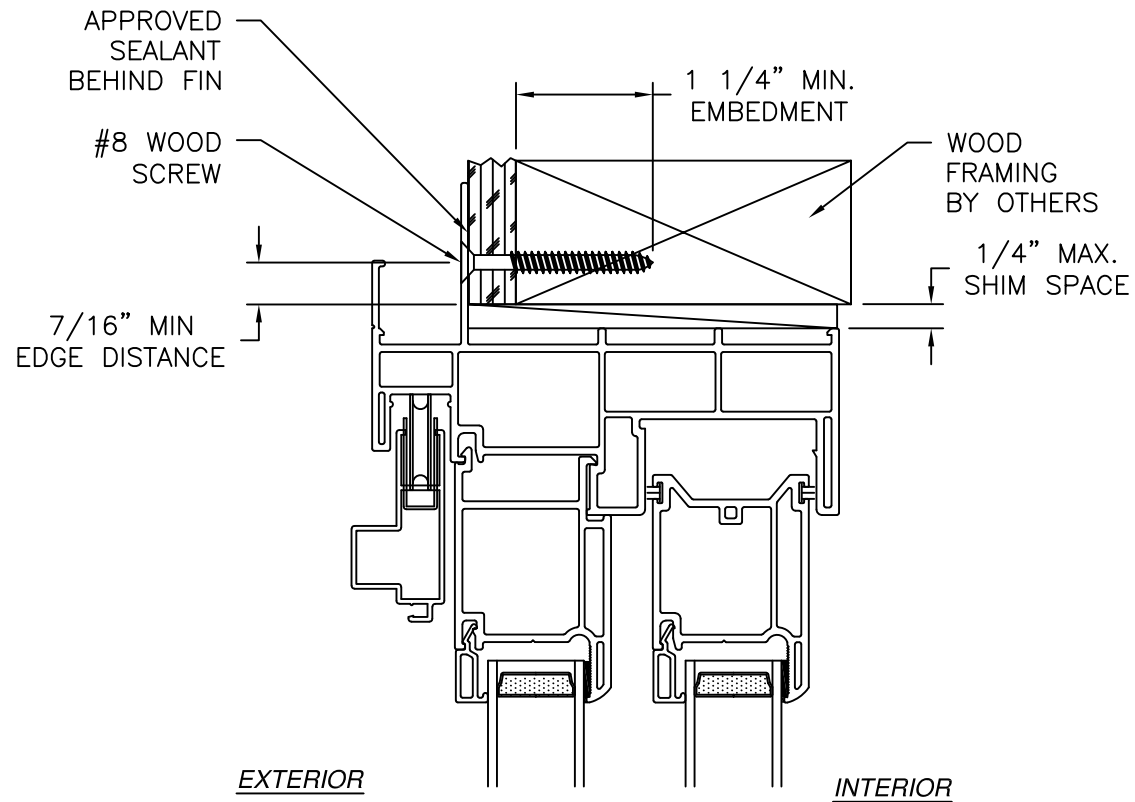
1" GLAZING BEAD
RIGID PVC .049" THICK

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
800 SGD REINFORCED NON-IMPACT CHART, CROSS SECTION & COMPONENTS		
DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 5 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/11/2025



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



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			
REV	DESCRIPTION	DATE	APPROVED

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

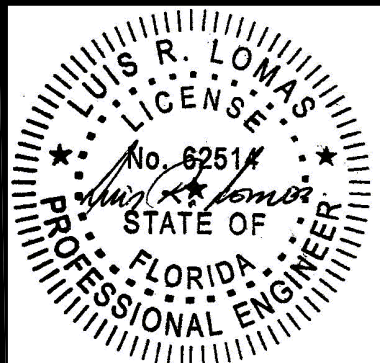
**800 SGD REINFORCED
NON-IMPACT
PERIMETER INSTALLATION DETAILS**

DRAWN: R.L.	DWG NO. 08-04128	REV -
----------------	---------------------	----------

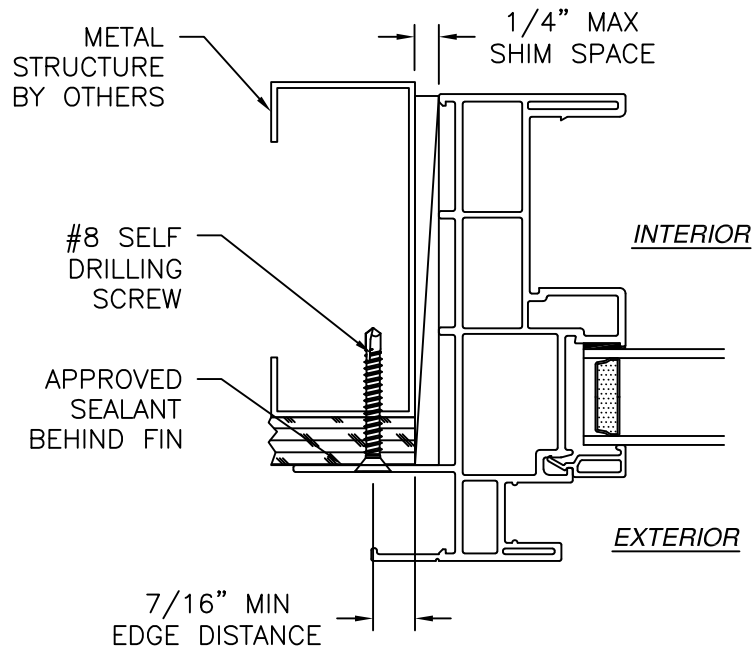
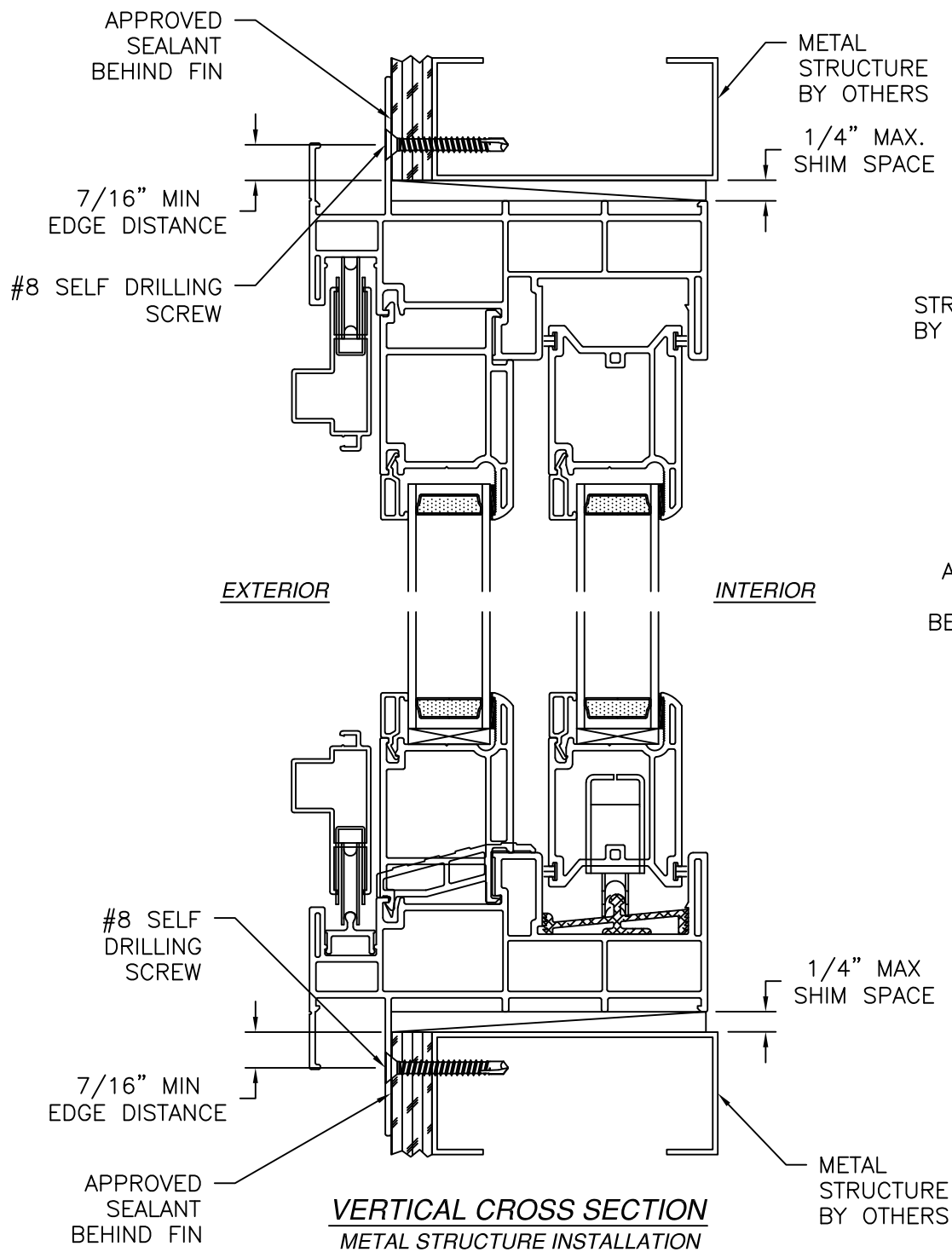
SCALE NTS	DATE 03/10/25	SHEET 6 OF 11
--------------	------------------	------------------

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

SIGNED: 04/11/2025



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



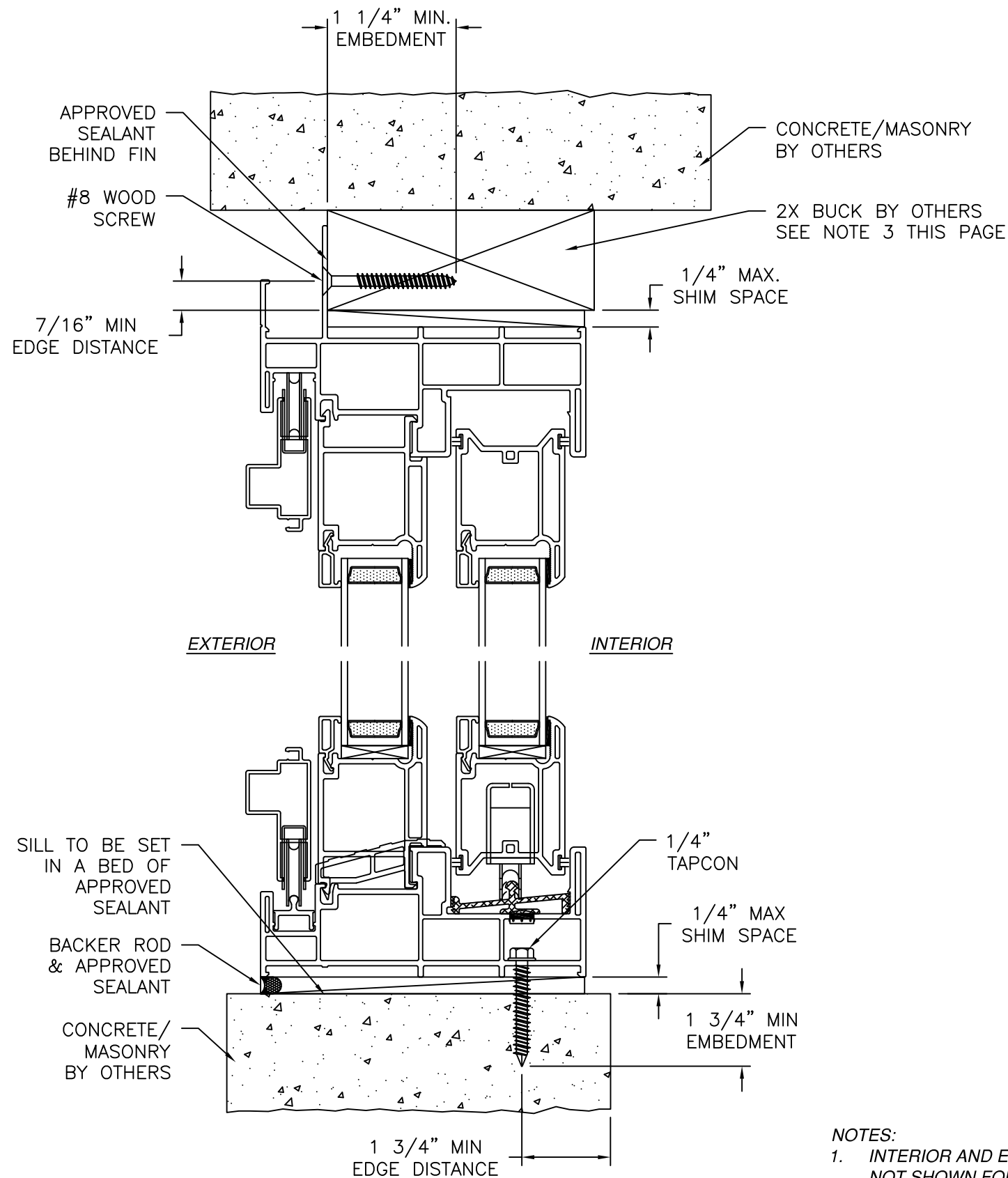
- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

KRESTMARK INDUSTRIES, L.P. 3950 BASTILLE RD., SUITE 100 DALLAS, TX 75212		
800 SGD REINFORCED NON-IMPACT PERIMETER INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 7 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 04/11/2025

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

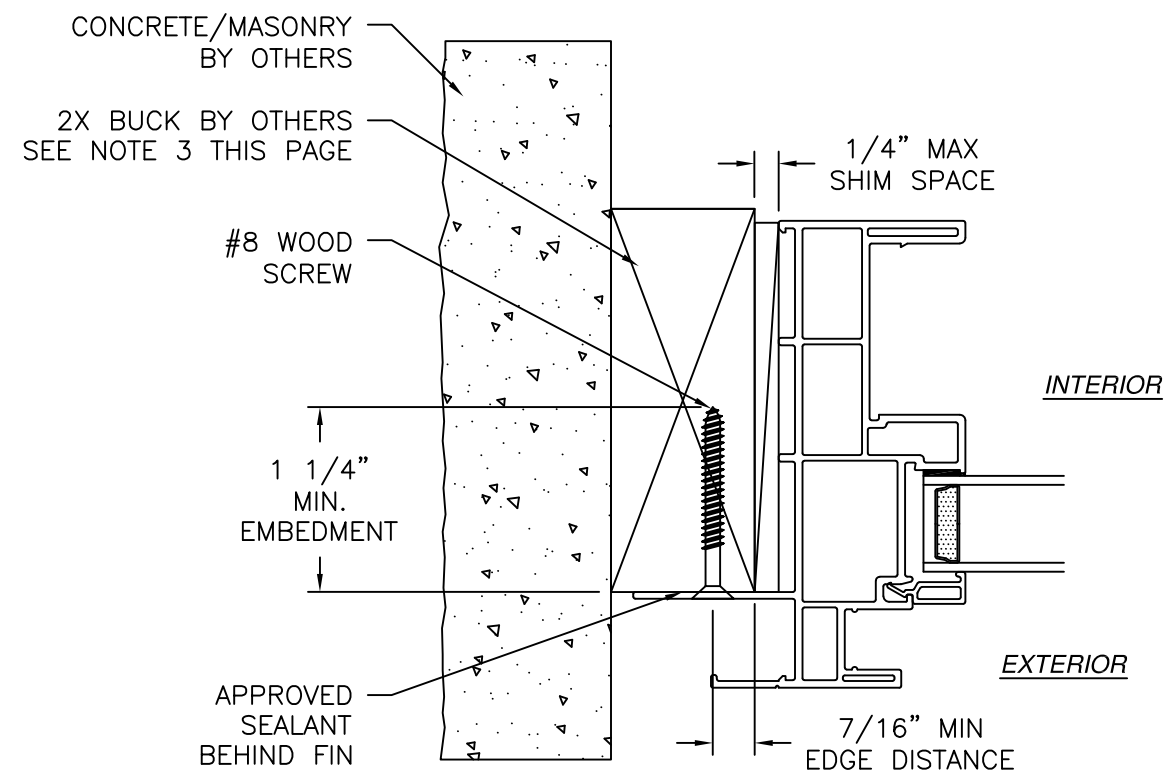


VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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
3. 2X BUCK MUST BE ANCHORED TO CONCRETE/MASONRY STRUCTURE PROPERLY IN ORDER TO TRANSFER LOADS CORRECTLY. ANCHORING SCHEME IS THE RESPONSIBILITY OF ARCHITECT OR ENGINEER OF RECORD.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



JAMB INSTALLATION DETAIL
CONCRETE /MASONRY INSTALLATION

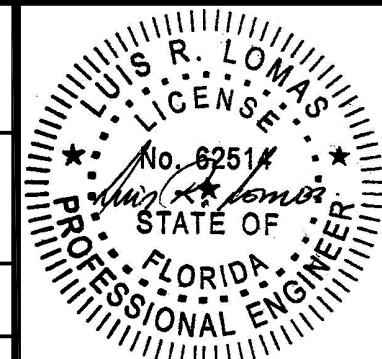
SIGNED: 04/11/2025

KRESTMARK INDUSTRIES, L.P.
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

**800 SGD REINFORCED
NON-IMPACT
PERIMETER & FRAME INSTALLATION DETAILS**

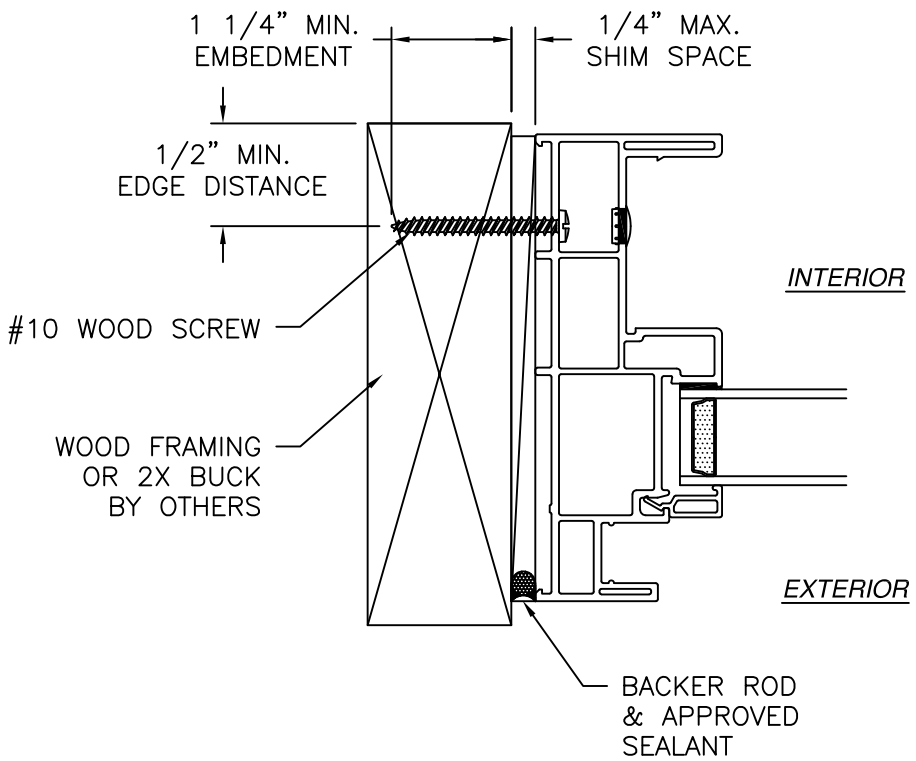
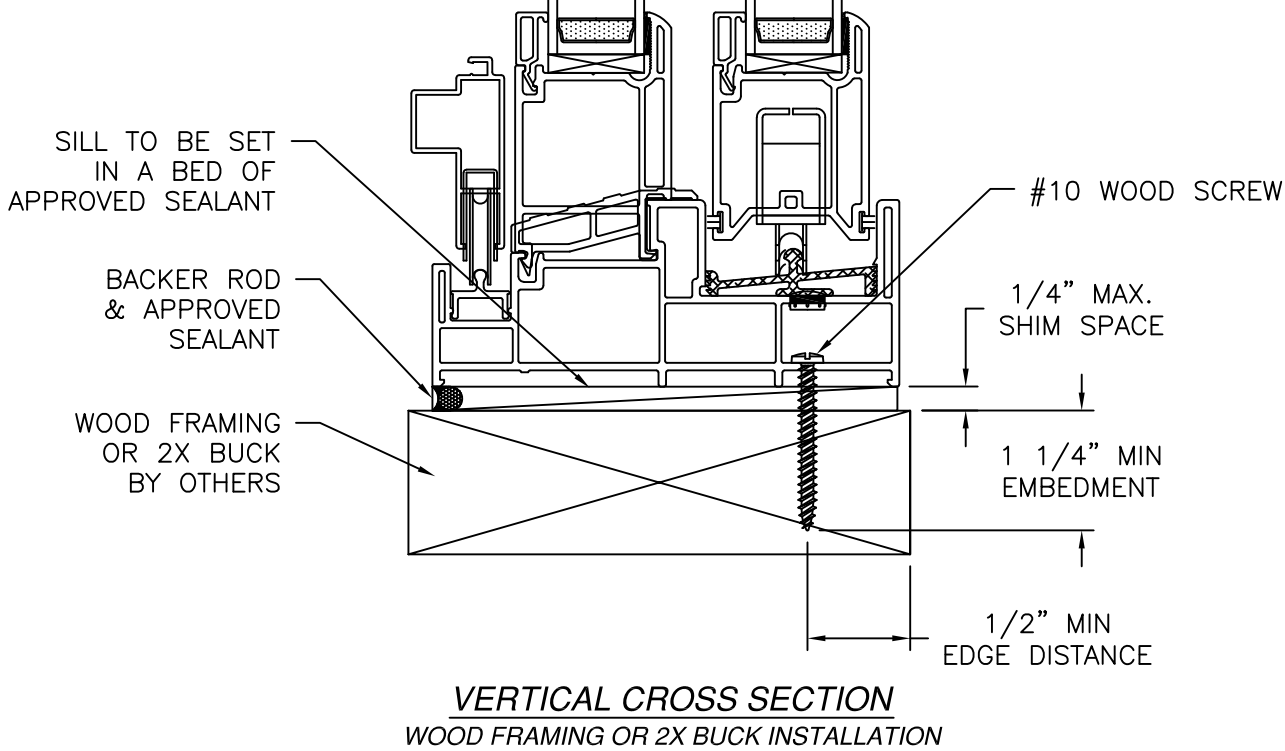
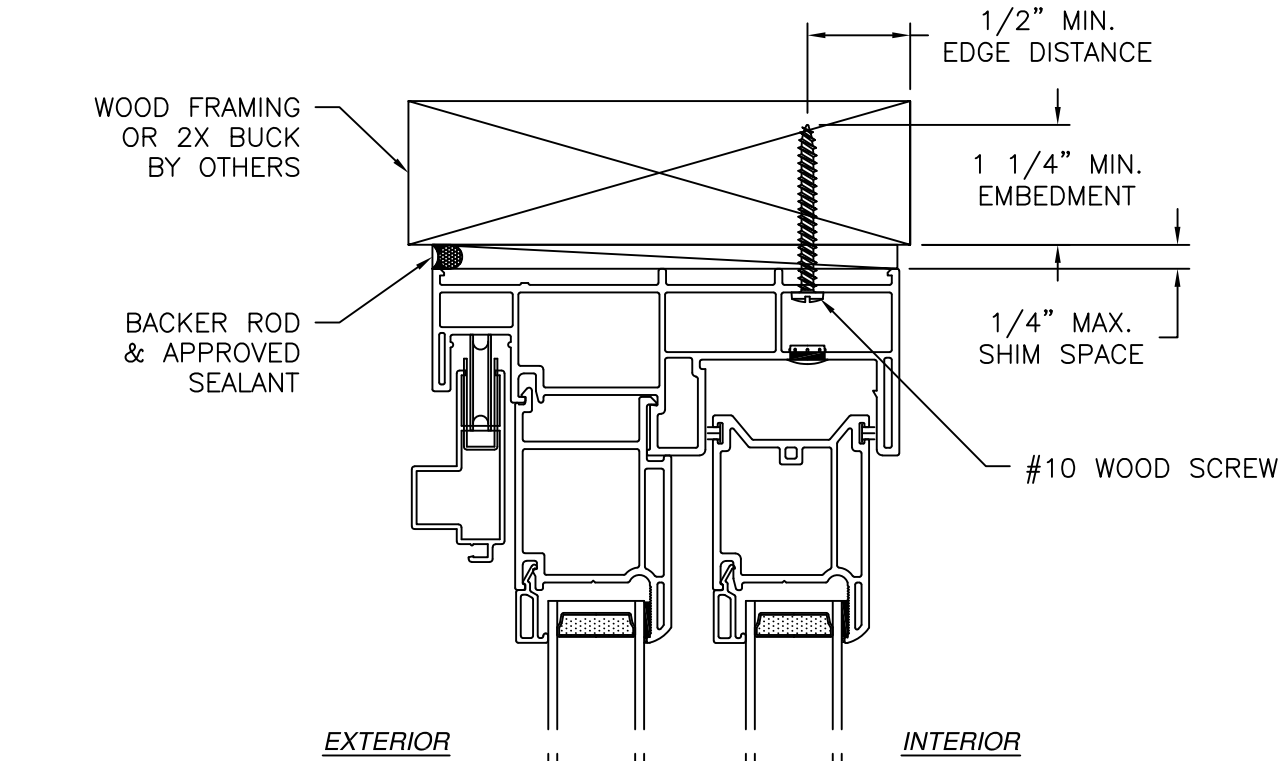
DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 8 OF 11

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



- 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
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 04/11/2025

KRESTMARK INDUSTRIES, L.P.

3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
FRAME INSTALLATION DETAILS

DRAWN:
R.L.

DWG NO.
08-04128

SCALE NTS

DATE
03/10/25

SHEET 9 OF 11

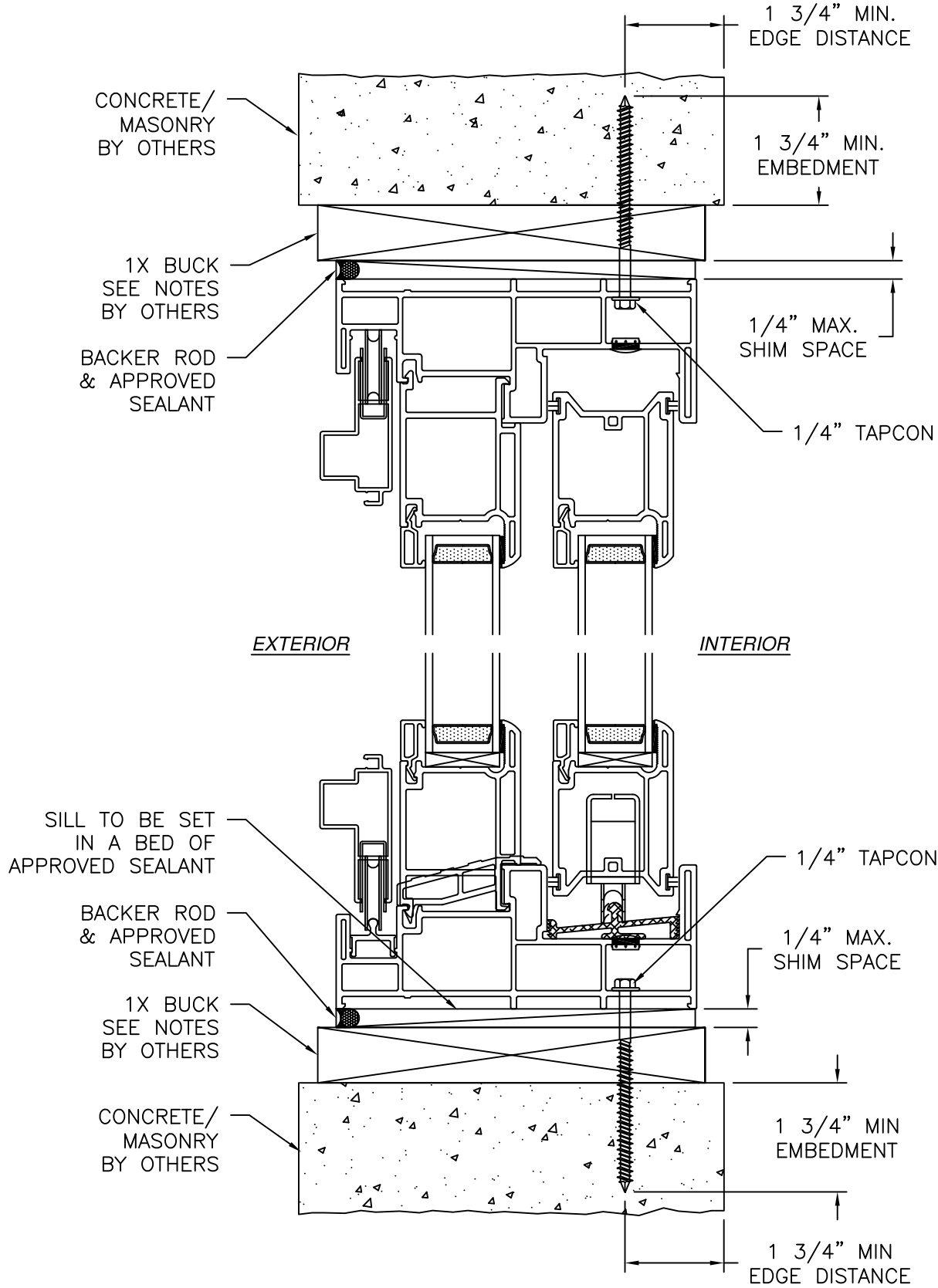
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

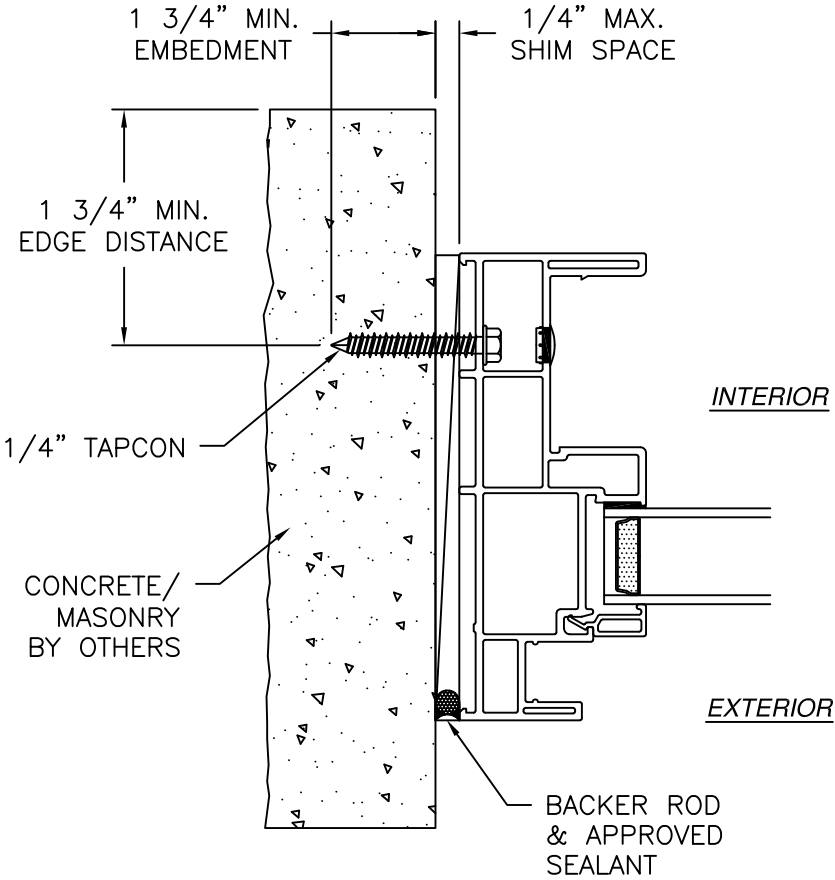
434-688-0609 rllomas@lrllomaspe.com

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



VERTICAL CROSS SECTION
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
 JAMB INSTALLATION DETAIL



JAMB INSTALLATION DETAIL
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
 HEAD AND SILL INSTALLATION DETAILS

- 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: 04/11/2025

KRESTMARK INDUSTRIES, L.P.

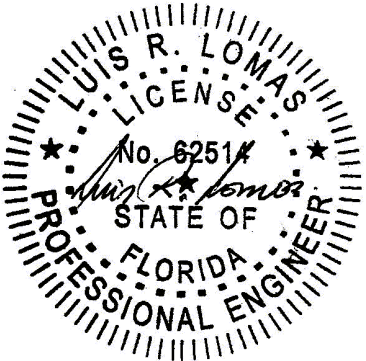
3950 BASTILLE RD., SUITE 100
DALLAS, TX 75212

800 SGD REINFORCED
NON-IMPACT
FRAME INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-04128	REV -
SCALE NTS	DATE 03/10/25	SHEET 11 OF 11

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