

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH

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. 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.
4. 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.
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 WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. 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".
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, SEE SHEET 8 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
13. FOR FIN INSTALLATION INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

14. FOR FRAME ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 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 FRAME ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1-1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1-7/8" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR FRAME 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.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. WHEN THE PRODUCT SPECIFIED HEREIN IS INSTALLED WITHIN 3000 FEET OF A SALTWATER COASTLINE, ALL ANCHORS AND CLIPS MUST COMPLY WITH SALTWATER ENVIRONMENT CORROSION RESISTANCE REQUIREMENTS OF FBC CHAPTER 17.
20. 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 3,192 PSI.
 - C. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM
21. APPROVED CONFIGURATION: XO AND OX.

FL 16804

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2	ELEVATIONS
3	HORIZONTAL CROSS SECTIONS
4 – 7	INSTALLATION DETAILS
8	COMPONENTS AND GLAZING DETAILS



EASTERN ARCHITECTURAL SYSTEMS

A DIVISION OF

CORNERSTONE BUILDING BRANDS

16341 DOMESTIC AVE

FORT MYERS, FL 33912

800-432-2204

SERIES 176 HR SGP VINYL

HORIZONTAL SLIDING WINDOW IMPACT

NOTES

DRAWN:

DWG NO.

REV

A.R.

08-03892

A

SCALE

DATE

SHEET

NTS

03/01/23

1

OF

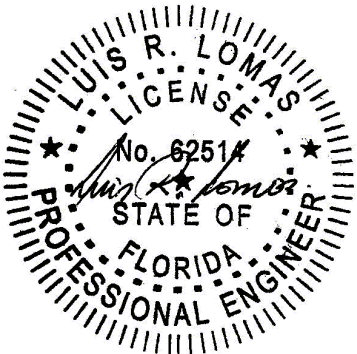
8

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

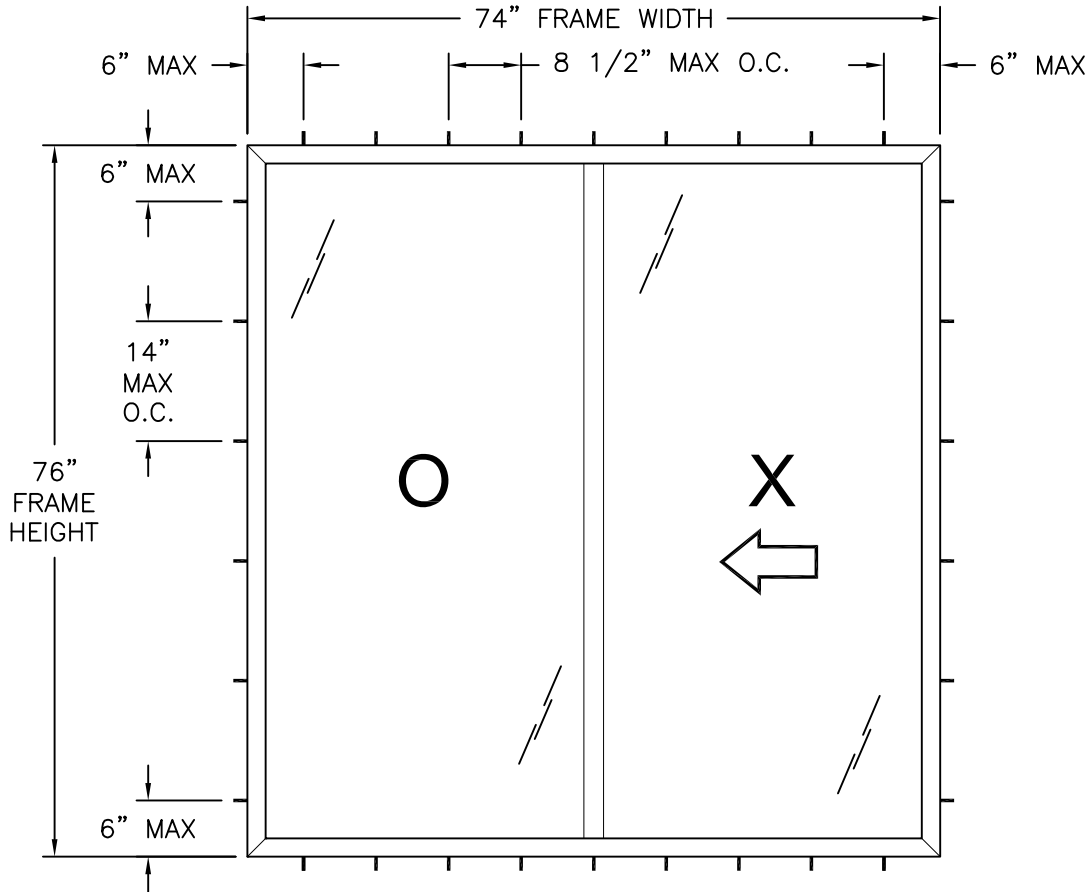
SIGNED: 08/24/2026



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

- NOTES:
1. SASH SIZE: 36-5/8" X 73-3/8".
 2. SASH D.L.O.: 33-1/4" X 69-7/8".
 3. FIXED D.L.O.: 33-1/4" X 72-3/16"

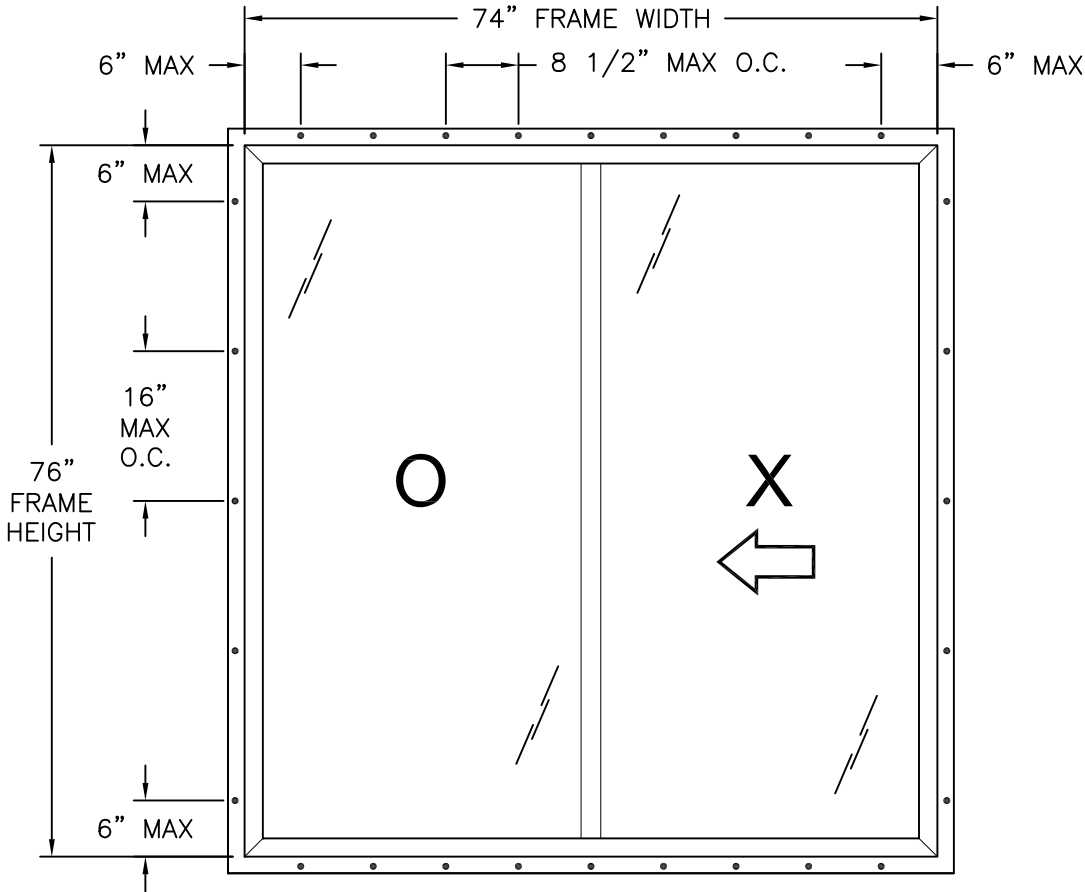
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH



SERIES 176 HR SGP
EXTERIOR VIEW
FINLESS INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ



SERIES 176 HR SGP
EXTERIOR VIEW
FIN INSTALLATION

HARDWARE SCHEDULE	
A.	(4) ASHLAND DUAL KEEPERS (13999) AT FIXED MEETING STILE 8" FROM HEAD & SILL
B.	(4) ASHLAND DUAL LOCKS (D2100AL/R) AT SASH LOCK STILE 8" FROM SASH CORNERS
C.	(4) ROLLER HOUSINGS AT EACH CORNER OF SASH BOTTOM RAILS.
D.	(3) TRACKS AT OPERABLE SASH HEAD & SILL
E.	(1) ALUMINUM REINFORCEMENT (10300265) IN FIXED MEETING RAIL
F.	(5) ALUMINUM REINFORCEMENT (10300266) IN SASH TOP AND BOTTOM RAILS, JAMB STILES AND SASH LOCK RAIL



EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

**SERIES 176 HR SGP VINYL
HORIZONTAL SLIDING WINDOW IMPACT
ELEVATIONS**

DRAWN:
A.R.

DWG NO.
08-03892

REV
A

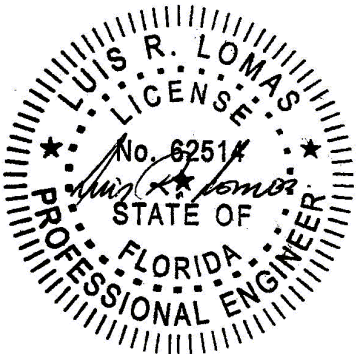
SCALE
NTS

DATE
03/01/23

SHEET
2 OF 8

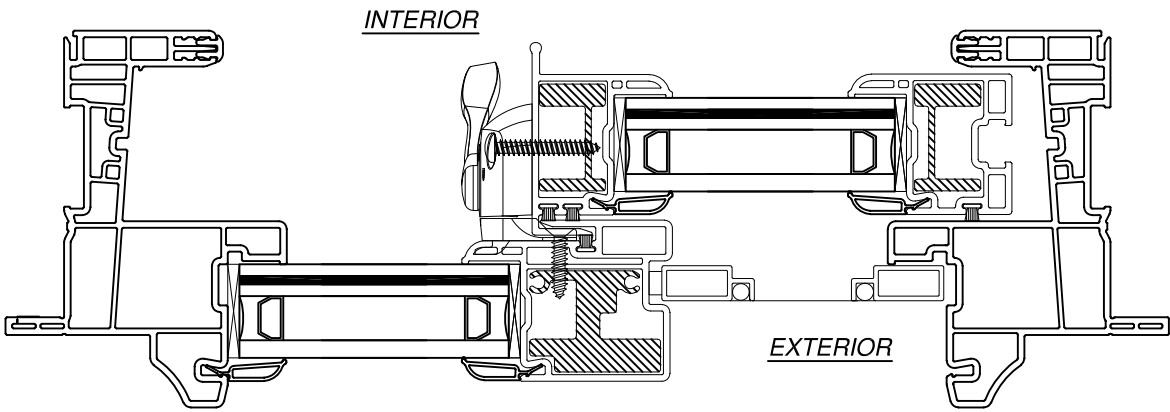
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/24/2026

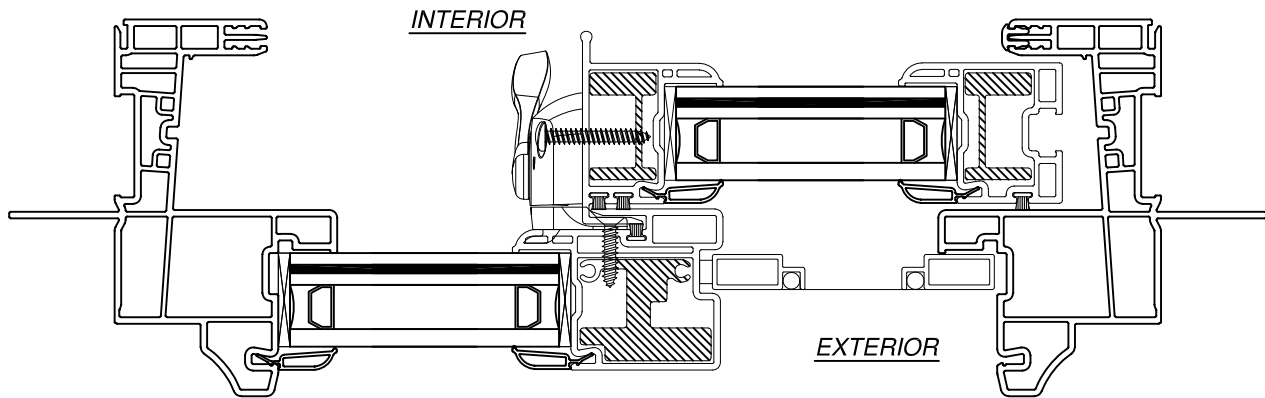


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH



HORIZONTAL CROSS SECTIONS
FINLESS INSTALLATION



HORIZONTAL CROSS SECTIONS
FIN INSTALLATION

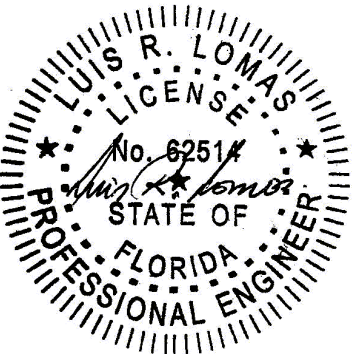
SIGNED: 08/24/2026



EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

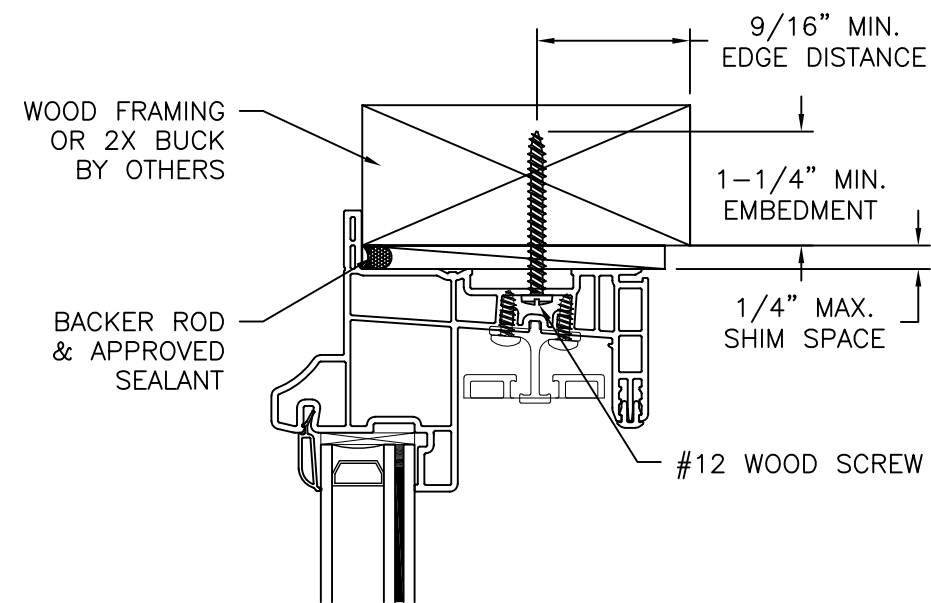
SERIES 176 HR SGP VINYL
HORIZONTAL SLIDING WINDOW IMPACT
HORIZONTAL CROSS SECTIONS

DRAWN: A.R.		DWG NO. 08-03892	REV A
SCALE NTS	DATE 03/01/23	SHEET 3 OF 8	
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com			



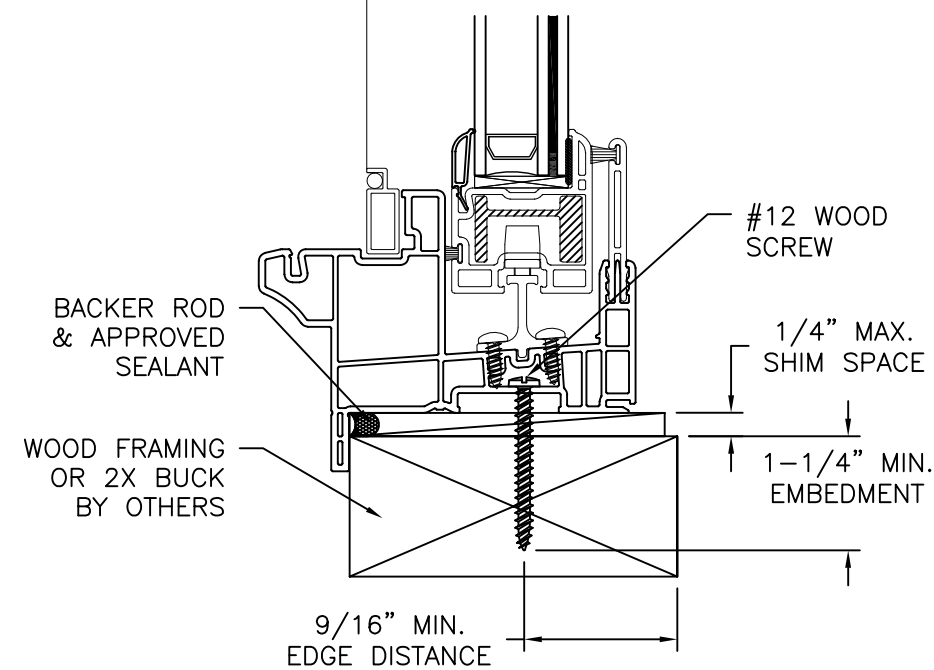
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH



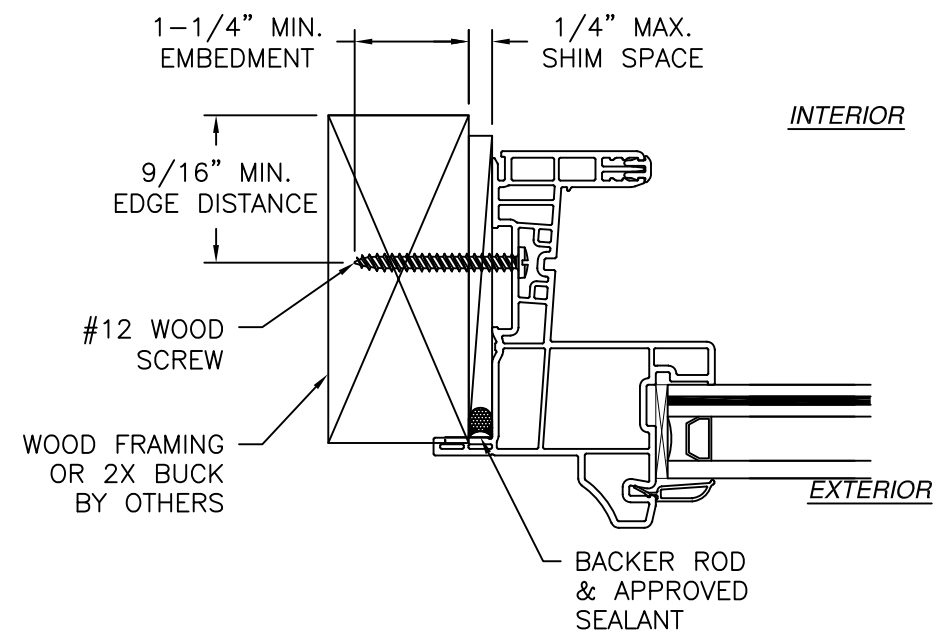
EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

SIGNED: 08/24/2026

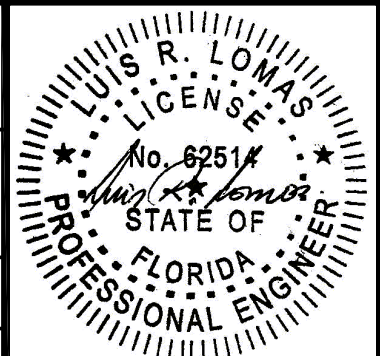


EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

**SERIES 176 HR SGP VINYL
HORIZONTAL SLIDING WINDOW IMPACT
INSTALLATION DETAILS**

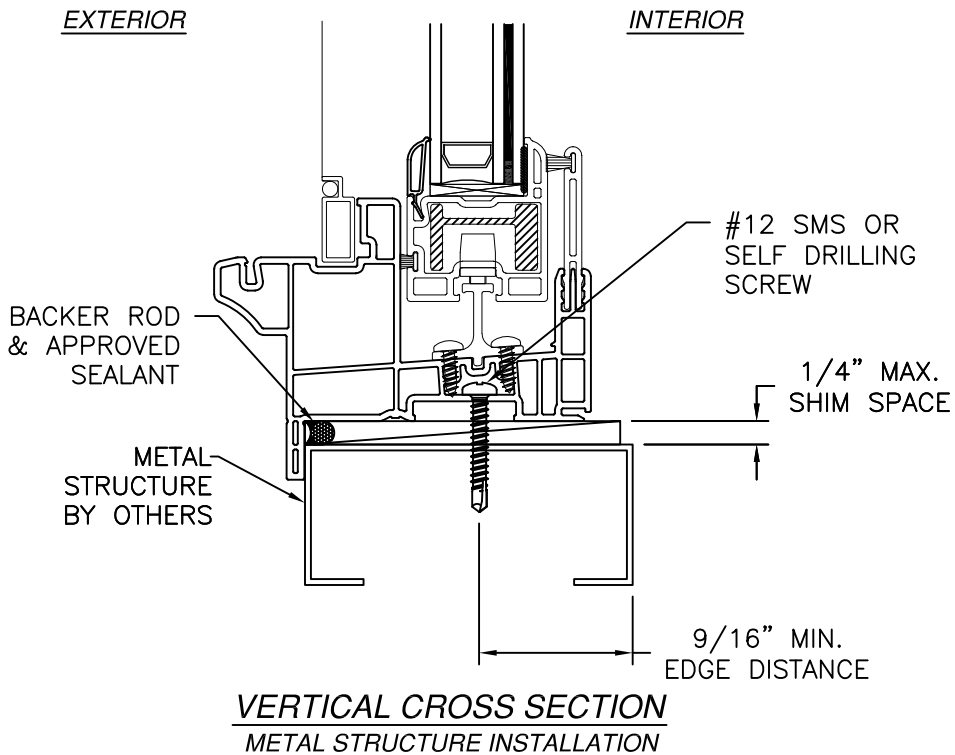
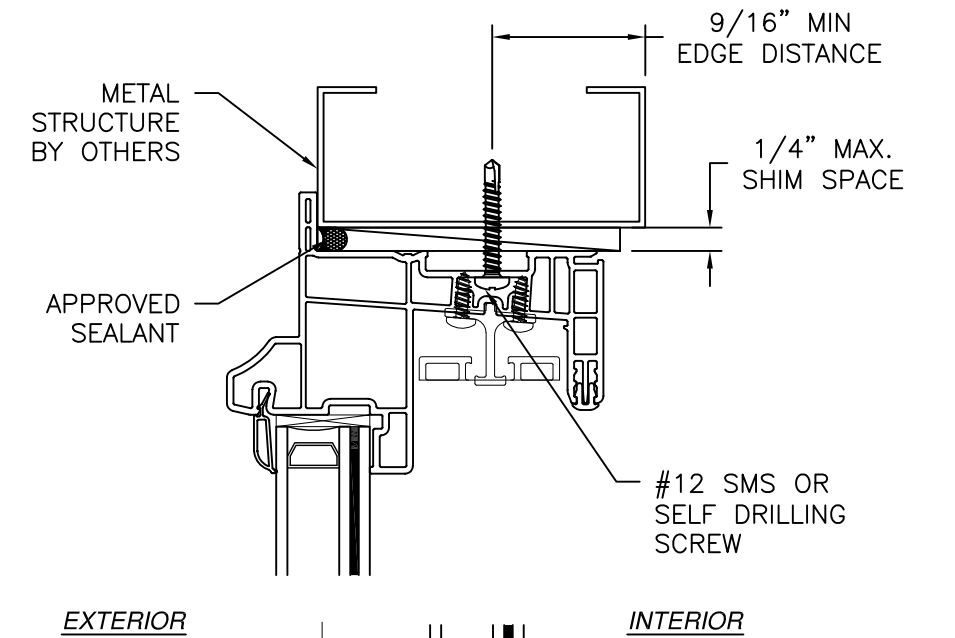
DRAWN: A.R.	DWG NO. 08-03892	REV A
SCALE NTS	DATE 03/01/23	SHEET 4 OF 8

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

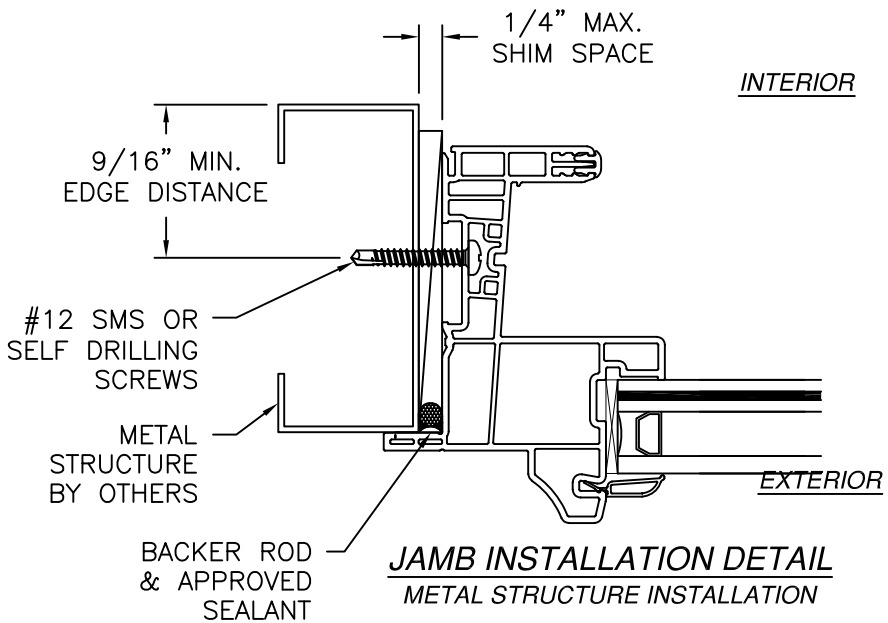


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH



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





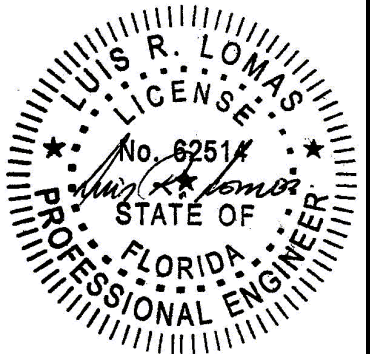
EASTERN ARCHITECTURAL SYSTEMS
 A DIVISION OF
 CORNERSTONE BUILDING BRANDS
 16341 DOMESTIC AVE
 FORT MYERS, FL 33912
 800-432-2204

SERIES 176 HR SGP VINYL
 HORIZONTAL SLIDING WINDOW IMPACT
 INSTALLATION DETAILS

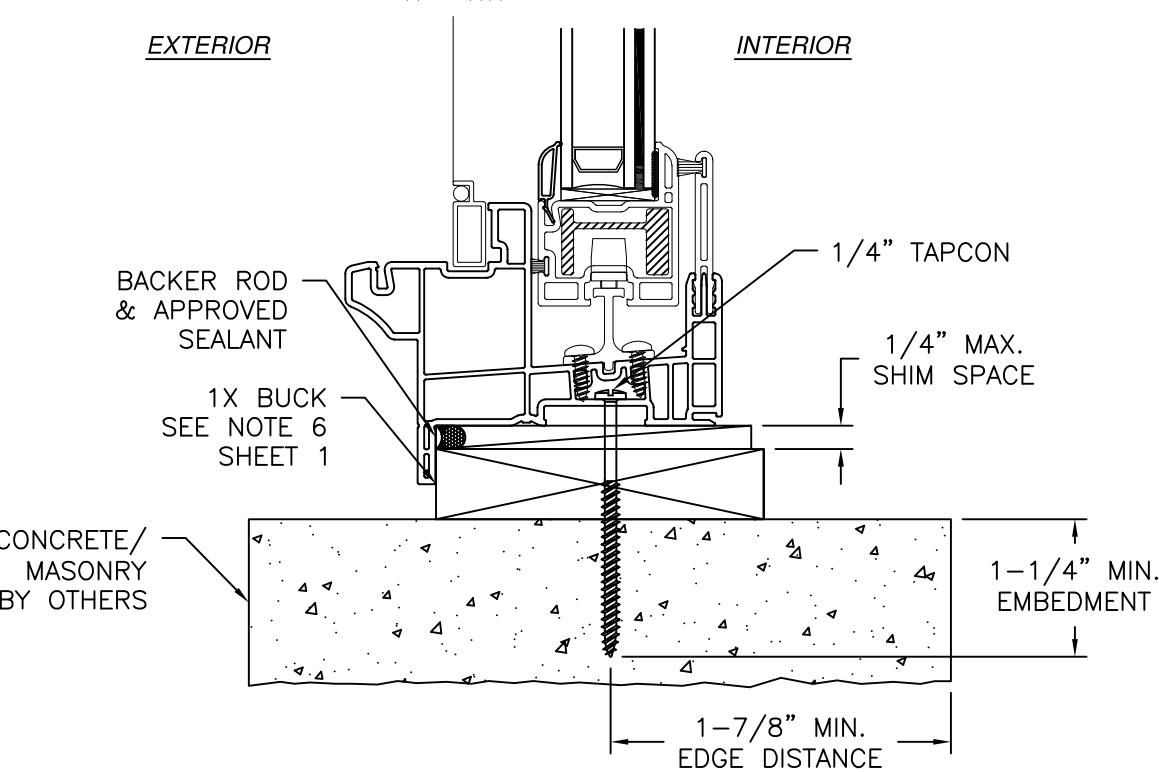
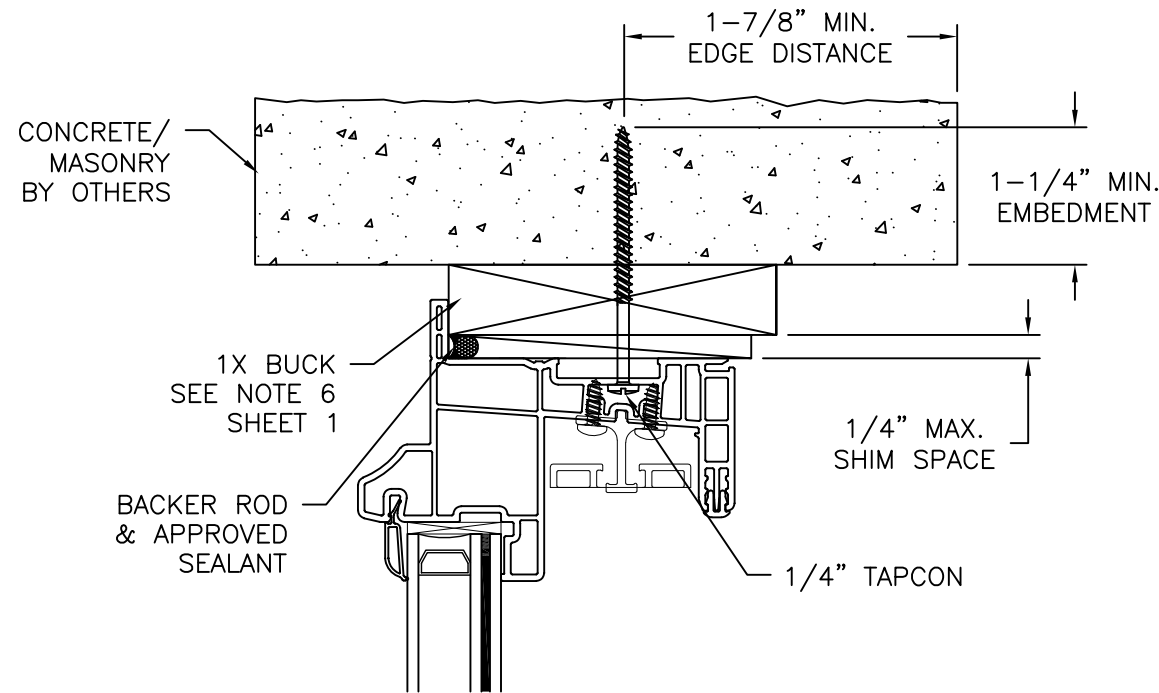
DRAWN: A.R.	DWG NO. 08-03892	REV A
SCALE NTS	DATE 03/01/23	SHEET 5 OF 8

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

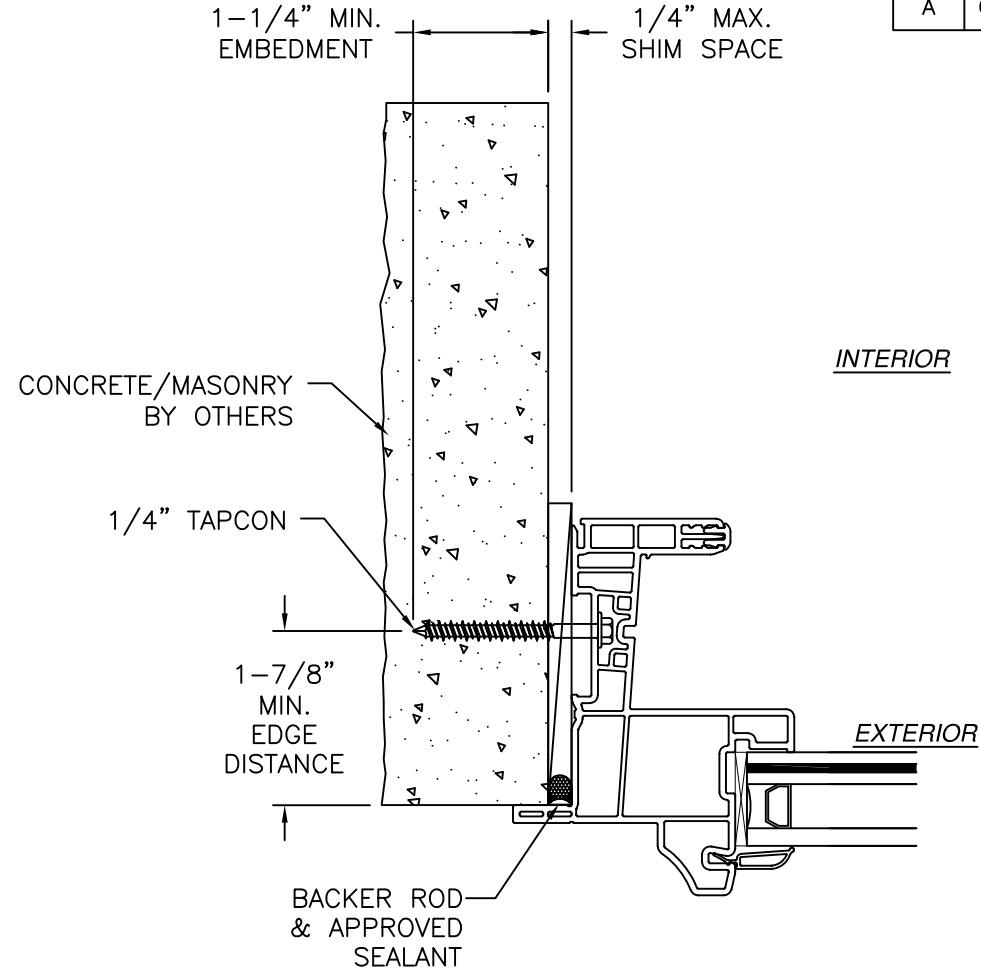
SIGNED: 08/24/2026



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



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH

- 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

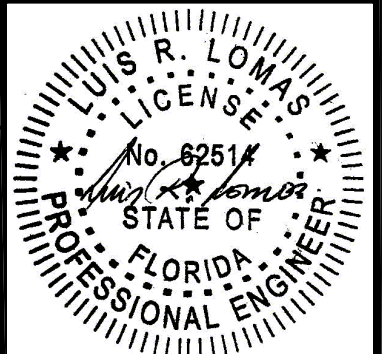


EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

**SERIES 176 HR SGP VINYL
HORIZONTAL SLIDING WINDOW IMPACT
INSTALLATION DETAILS**

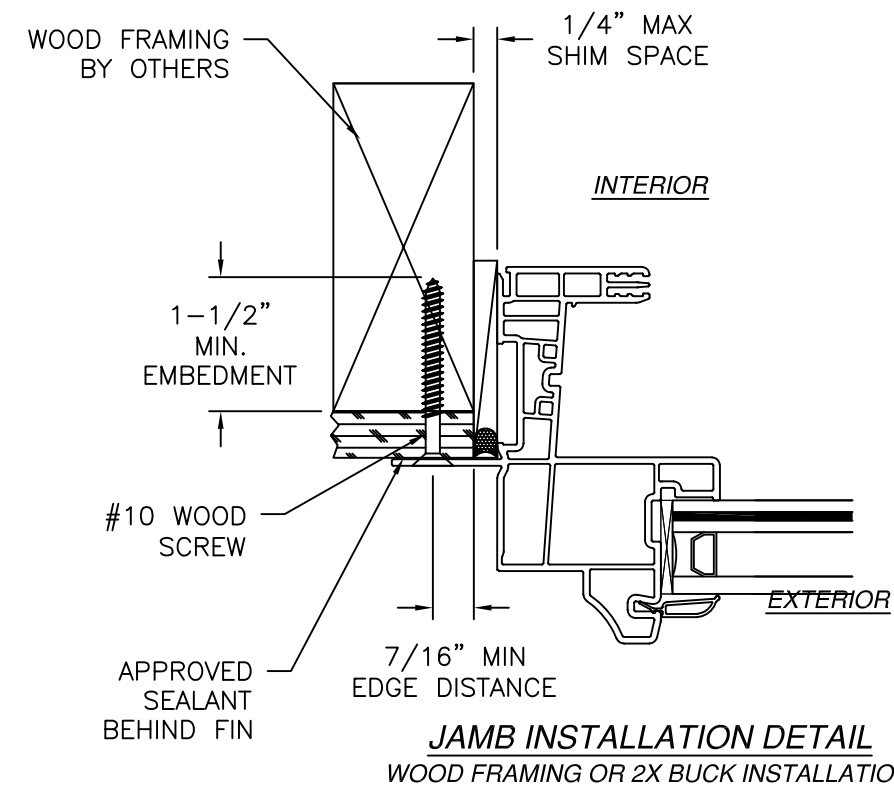
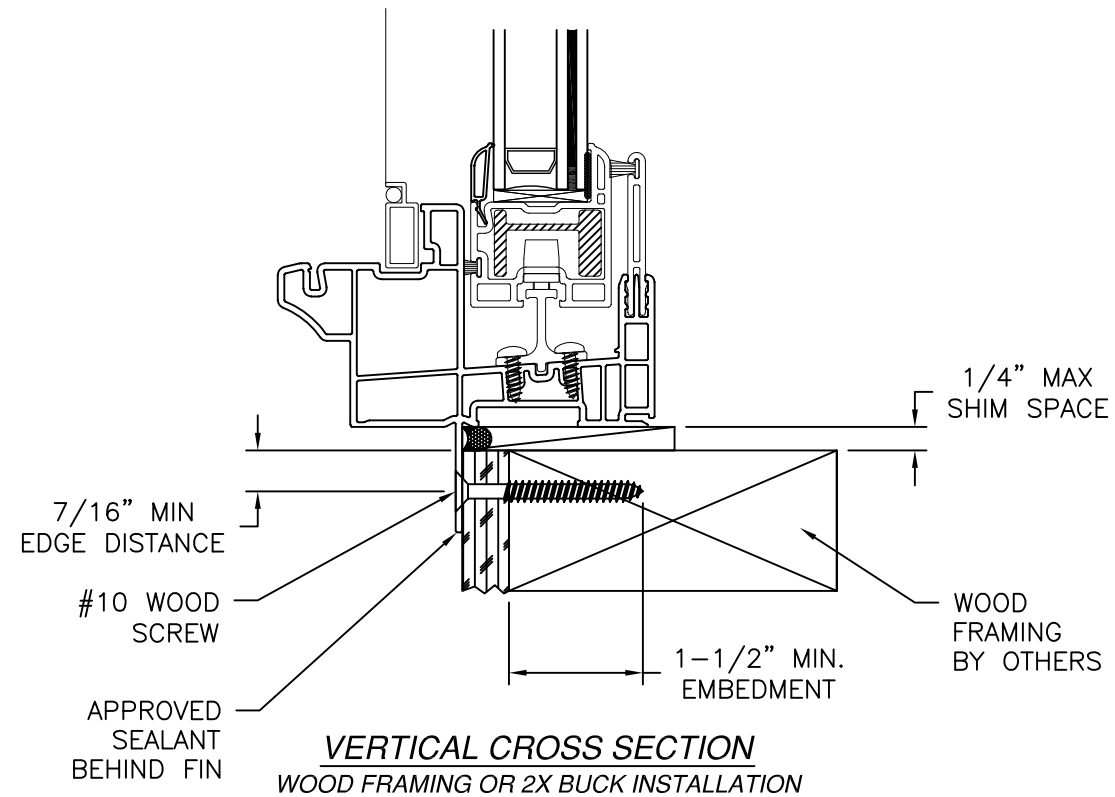
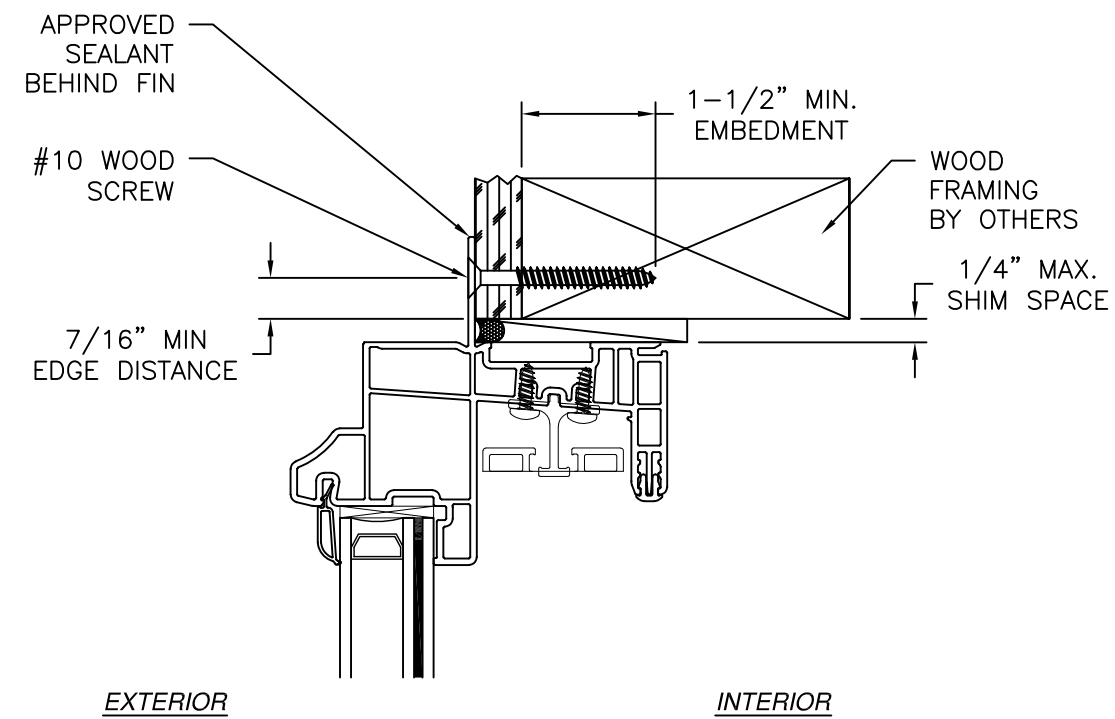
DRAWN: A.R.	DWG NO. 08-03892	REV A
SCALE NTS	DATE 03/01/23	SHEET 6 OF 8
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 08/24/2026



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH



- 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: 08/24/2026



EASTERN ARCHITECTURAL SYSTEMS

A DIVISION OF

CORNERSTONE BUILDING BRANDS

16341 DOMESTIC AVE

FORT MYERS, FL 33912

800-432-2204

SERIES 176 HR SGP VINYL

HORIZONTAL SLIDING WINDOW IMPACT

INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03892

REV A

SCALE NTS

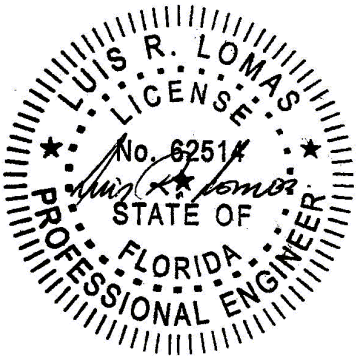
DATE 03/01/23

SHEET 7 OF 8

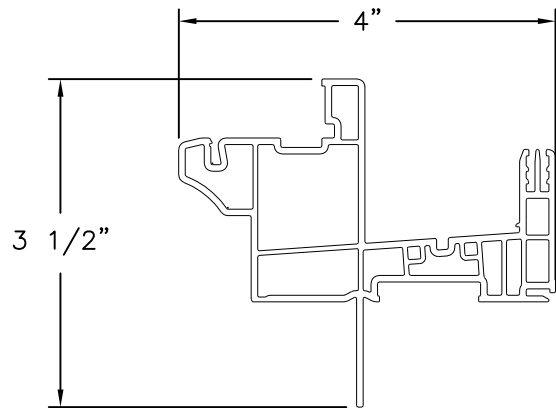
L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

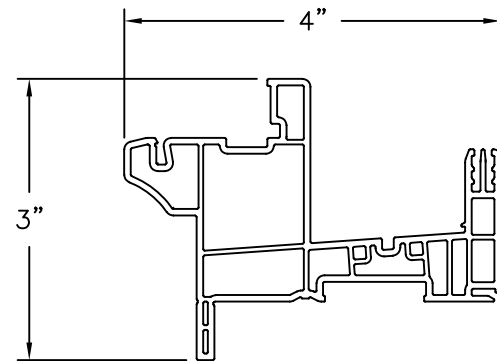
434-688-0609 rllomas@lrlomaspe.com



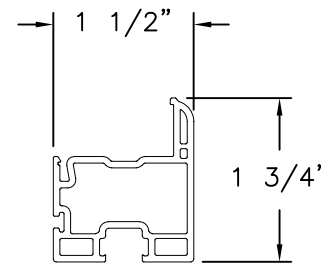
Luis R. Lomas P.E.
FL No.: 62514



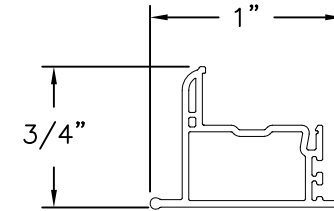
**MAIN FRAME
FIN INSTALLATION (4761)**
EXTRUDED RIGID PVC



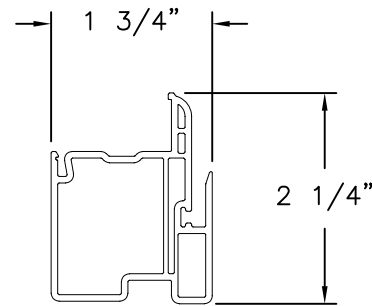
MAIN FRAME (4731)
EXTRUDED RIGID PVC



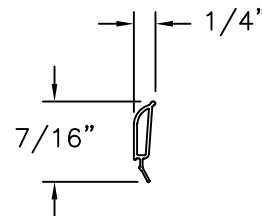
BOTTOM RAIL (5539)
EXTRUDED RIGID PVC



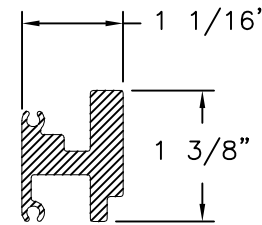
LOCK RAIL (4720)
EXTRUDED RIGID PVC



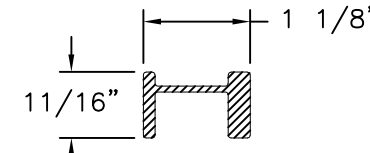
FIXED MEETING RAIL (4719)
EXTRUDED RIGID PVC



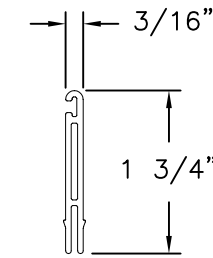
GLAZING BEAD (5464)
EXTRUDED RIGID PVC



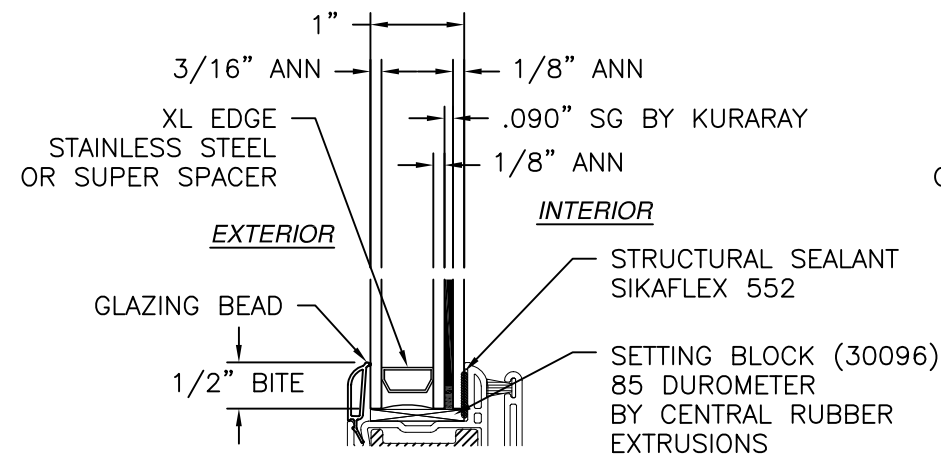
REINFORCEMENT (55556)
6005-T5 ALUMINUM



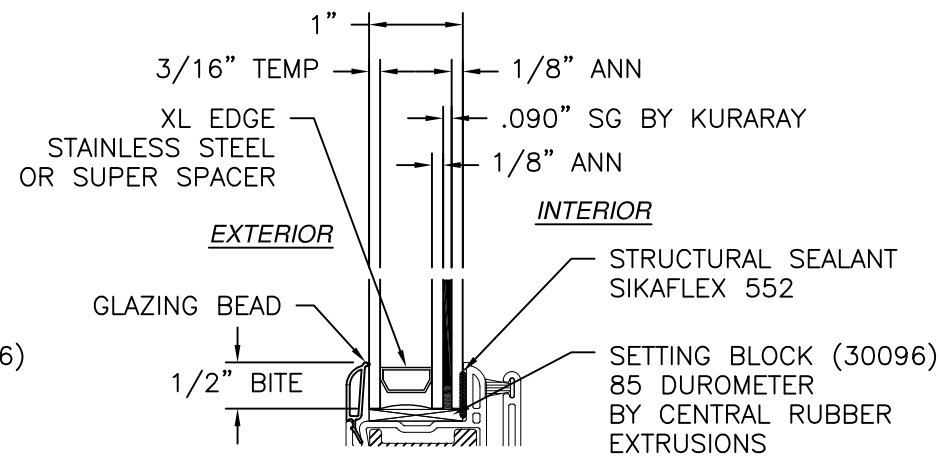
REINFORCEMENT (55557)
6005-T5 ALUMINUM



SILL EXTENSION (5139)
EXTRUDED RIGID PVC



GLAZING DETAIL A



GLAZING DETAIL B

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	CURRENT FBC & Ops-0061	08/24/26	LMH

FL 16804



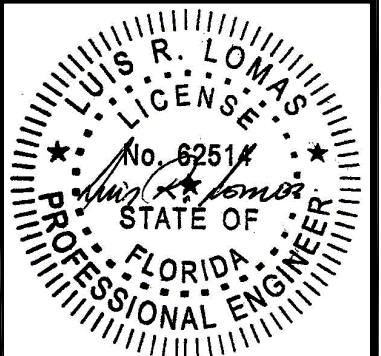
EASTERN ARCHITECTURAL SYSTEMS
A DIVISION OF
CORNERSTONE BUILDING BRANDS
16341 DOMESTIC AVE
FORT MYERS, FL 33912
800-432-2204

**SERIES 176 HR SGP VINYL
HORIZONTAL SLIDING WINDOW IMPACT
COMPONENTS AND GLAZING DETAILS**

DRAWN: A.R.	DWG NO. 08-03892	REV A
SCALE NTS	DATE 03/01/23	SHEET 9 OF 8

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

SIGNED: 08/24/2026



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