

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	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. 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. 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 4 FOR GLASS DETAILS. FOR UNITS INSTALLED 30FT OR MORE ABOVE GROUND LEVEL GLAZING C AND D MUST BE USED.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 OR #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #8 OR #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.
15. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 OR #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 3/16" OR 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 OR #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:
 - 19.1. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.46
 - 19.2. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - 19.3. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - 19.4. METAL STRUCTURE: STEEL 16GA (.054") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM

SIGNED: 08/24/2023

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16	COMPONENTS

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
NOTES

DRAWN:
R.L.

DWG NO.
08-03158

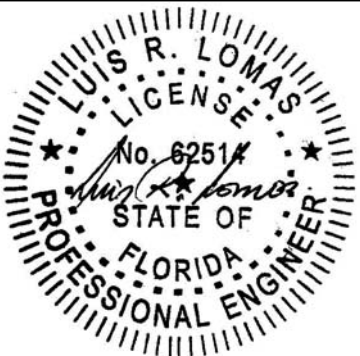
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SCALE NTS

DATE 05/07/2020

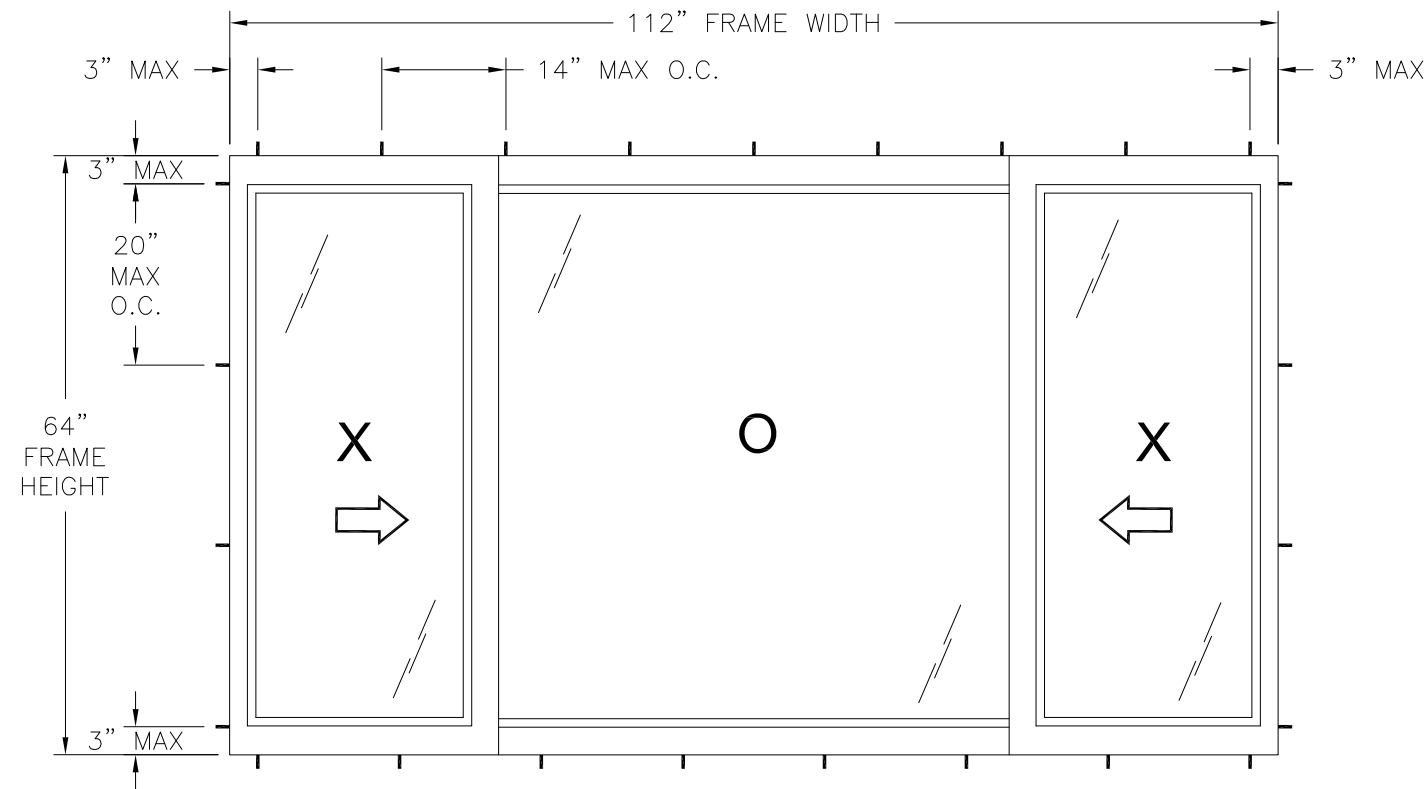
SHEET 1 OF 16

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

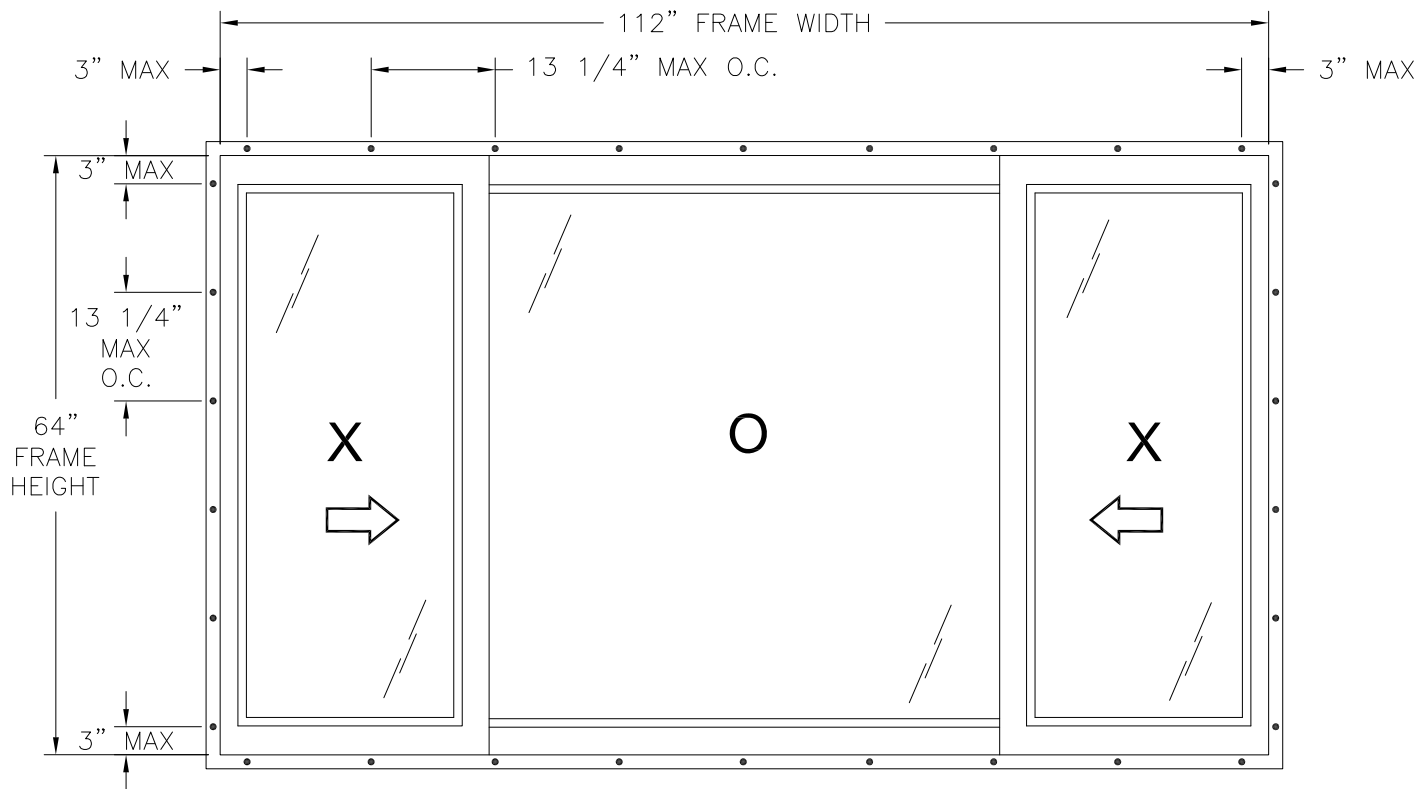


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SERIES 9050 HS WINDOW
EXTERIOR VIEW
FRAME INSTALLATION



SERIES 9050 HS WINDOW
EXTERIOR VIEW
FIN INSTALLATION

WITH STANDARD SILL

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

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
GLASS A IN OPERABLE PANEL AND GLASS B IN FIXED PANEL

- NOTES:
- SASH SIZE: 28 1/4" X 60 3/4"
 - SASH D.L.O.: 24" X 57 3/8"
 - FIXED PANEL D.L.O.: 52" X 59 1/4"

HARDWARE SCHEDULE

A.	(2) TANDEM PLASTIC ROLLER AND HOUSING (11552) BY VISION AT ACTIVE BOTTOM RAIL
B.	(2) LOCK (A09200411) WITH KEEPER BY TRUTH HARDWARE 6 1/2" FROM EACH END OF LOCK RAIL
C.	(2) TILT LATCH (HTL-133-310RH/LH) BY DALWORTH AT TOP AND BOTTOM OF LOCK RAIL
D.	(1) SASH LOCK (9200) BY TRUTH HARDWARE AT SASH MEETING RAIL
E.	ALUMINUM REINFORCEMENT (T-11211) BY TIFTON AT TOP AND BOTTOM RAIL
F.	ALUMINUM REINFORCEMENT (T-11222) BY TIFTON AT ACTIVE MEETING RAIL
G.	ALUMINUM REINFORCEMENT (T-11333) BY TIFTON AT FIXED MEETING RAIL

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SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY
DOTHAN, AL 36303

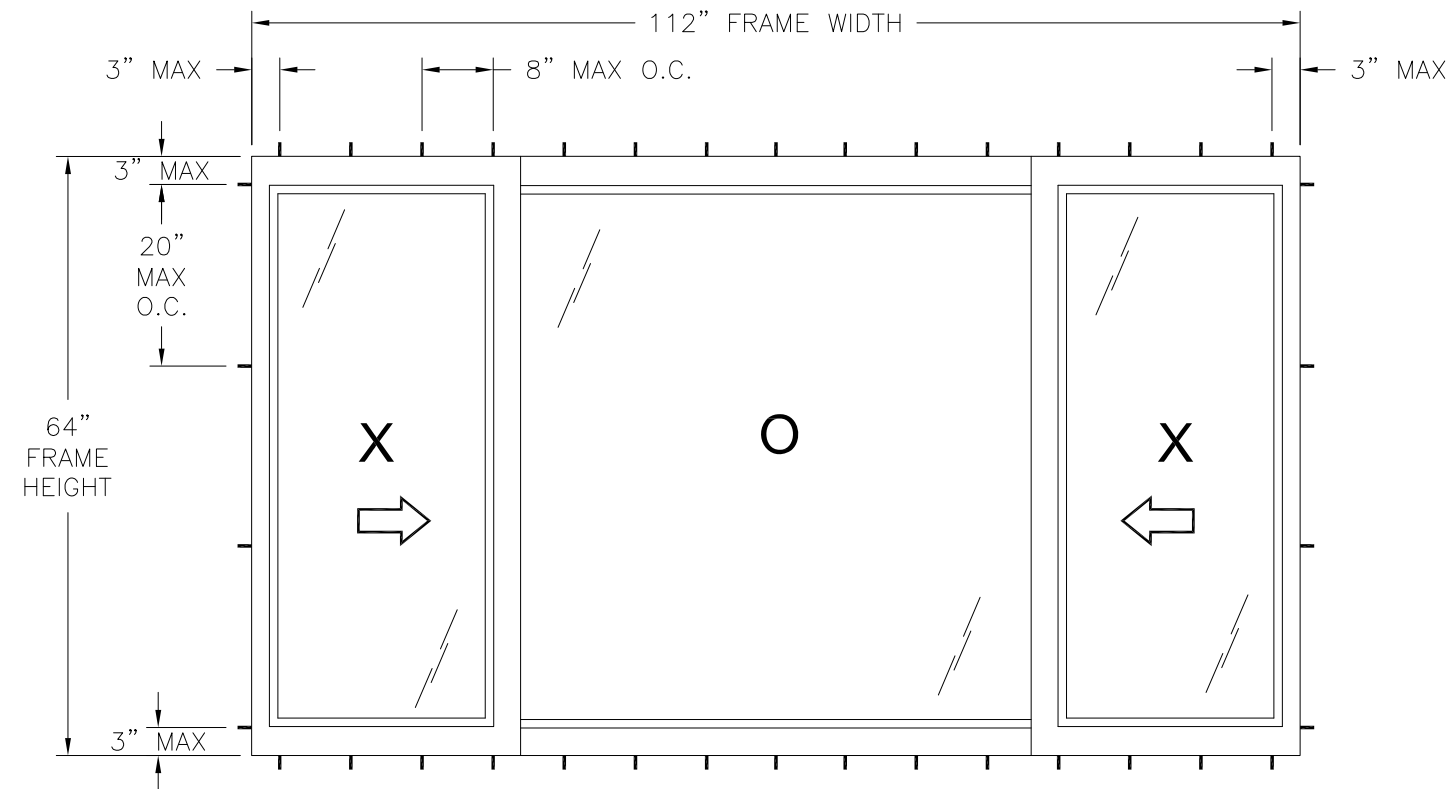
SERIES 9050 HS WINDOW XOX
IMPACT HVHZ
ELEVATION 50PSF

DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 2 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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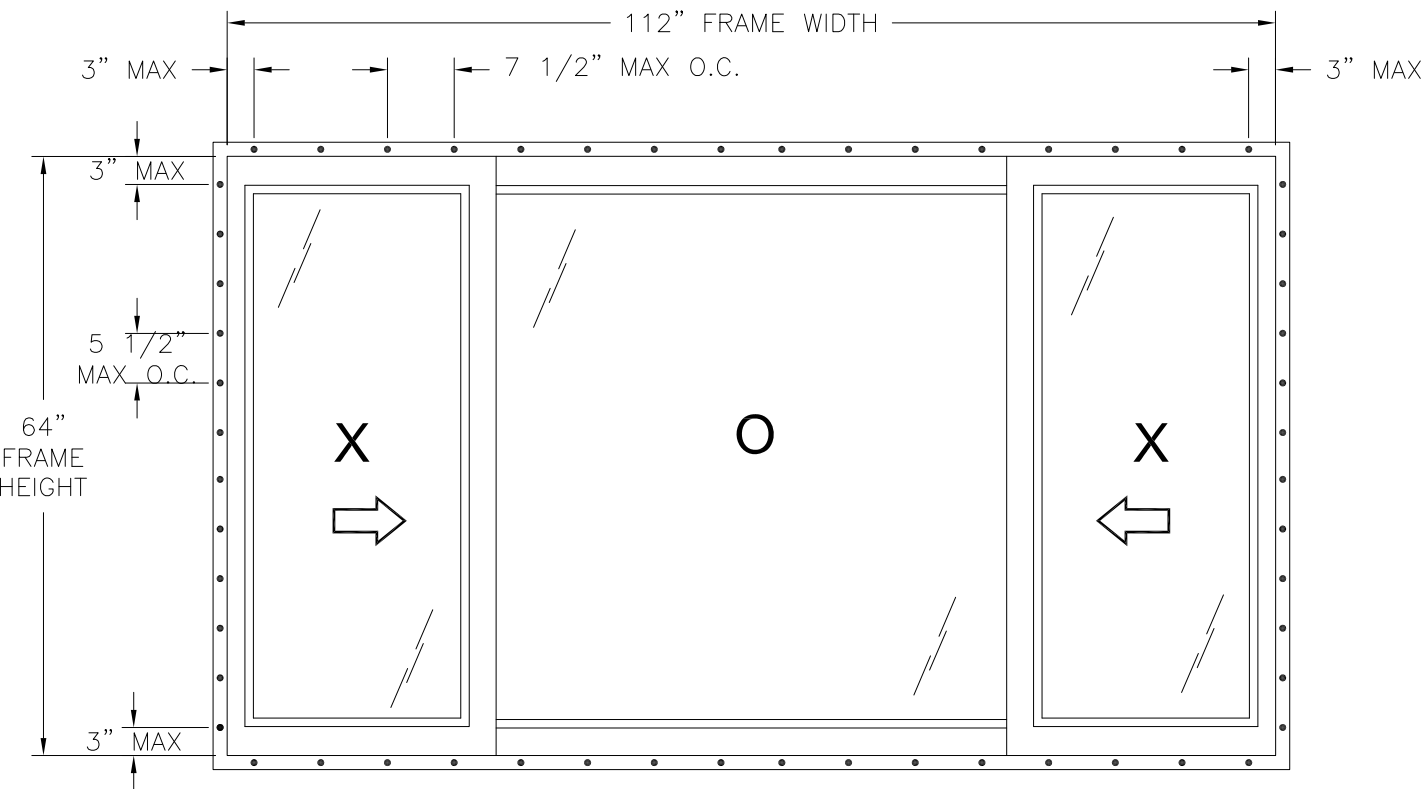


SERIES 9050 HS WINDOW
EXTERIOR VIEW
FRAME INSTALLATION

WITH 1 1/8" SILL RISER

DESIGN PRESSURE RATING	IMPACT RATING
+95.0/-130.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4 AND HVHZ
GLASS D IN OPERABLE PANEL AND GLASS C IN FIXED PANEL



SERIES 9050 HS WINDOW
EXTERIOR VIEW
FIN INSTALLATION

WITH 2 5/8" SILL RISER

DESIGN PRESSURE RATING	IMPACT RATING
±130.0PSF	LARGE AND SMALL MISSILE IMPACT

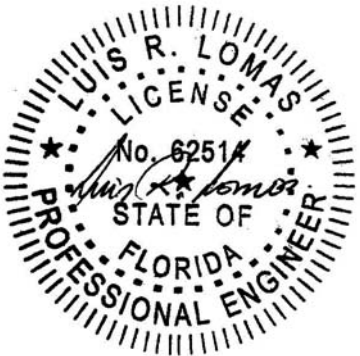
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G.	ALUMINUM REINFORCEMENT (T-11333) BY TIFTON AT FIXED MEETING RAIL

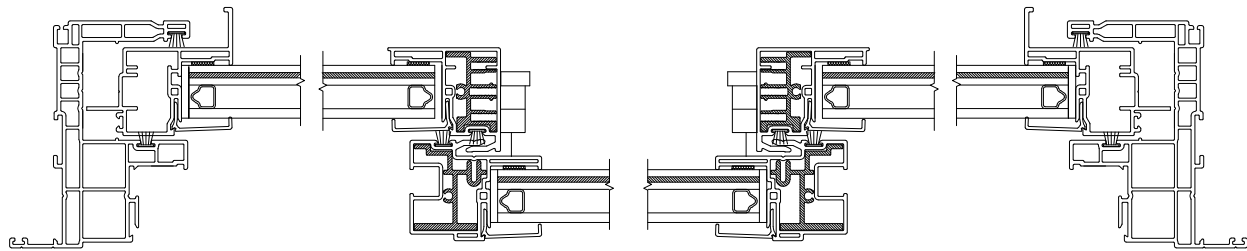
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SHWINCO ARCHITECTURAL PRODUCTS, LLC 171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW XOX IMPACT HVHZ ELEVATION 50PSF		
DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 3 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

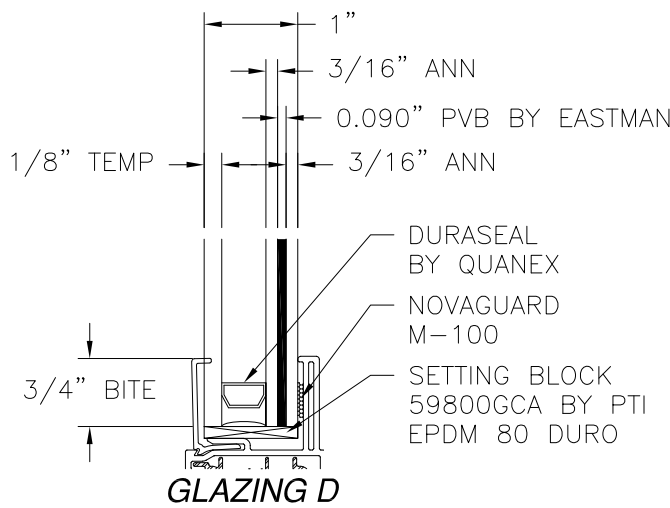
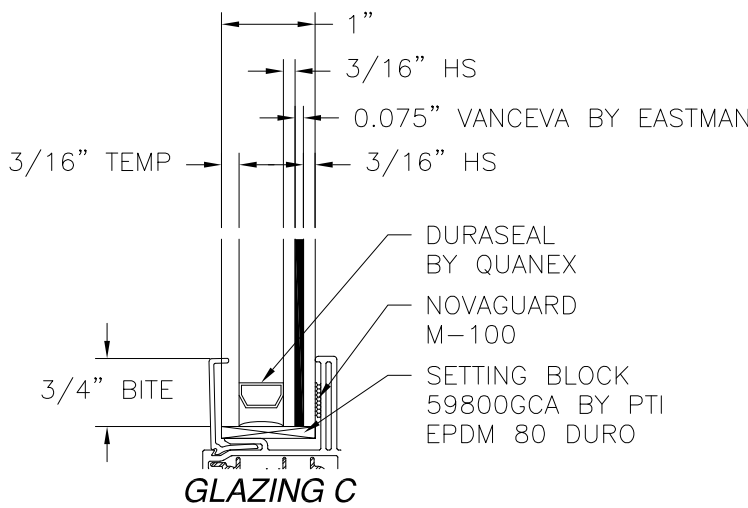
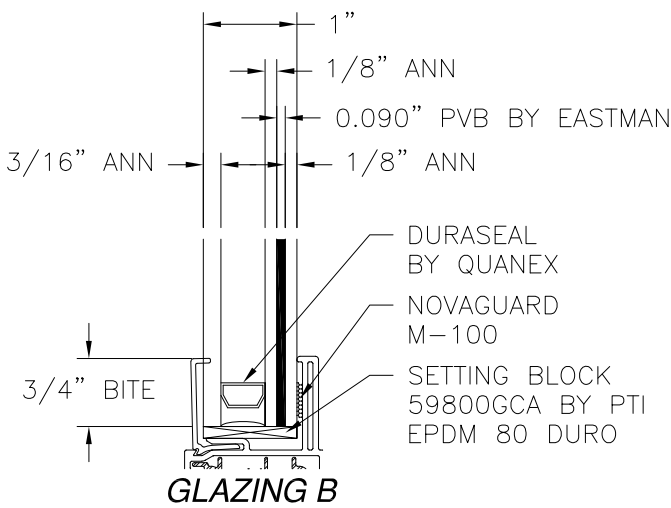
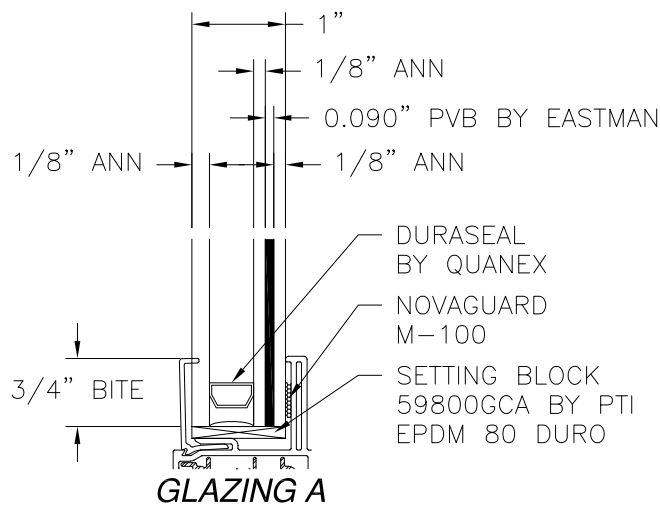


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HORIZONTAL CROSS SECTION
FOR REFERENCE ONLY, SEE SHEETS 4 - 9 FOR INSTALLATION DETAILS



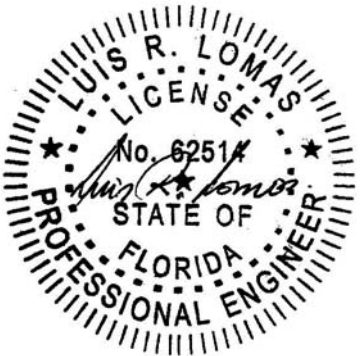
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SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XO
IMPACT HVHZ
CROSS SECTION AND GLAZING DETAILS

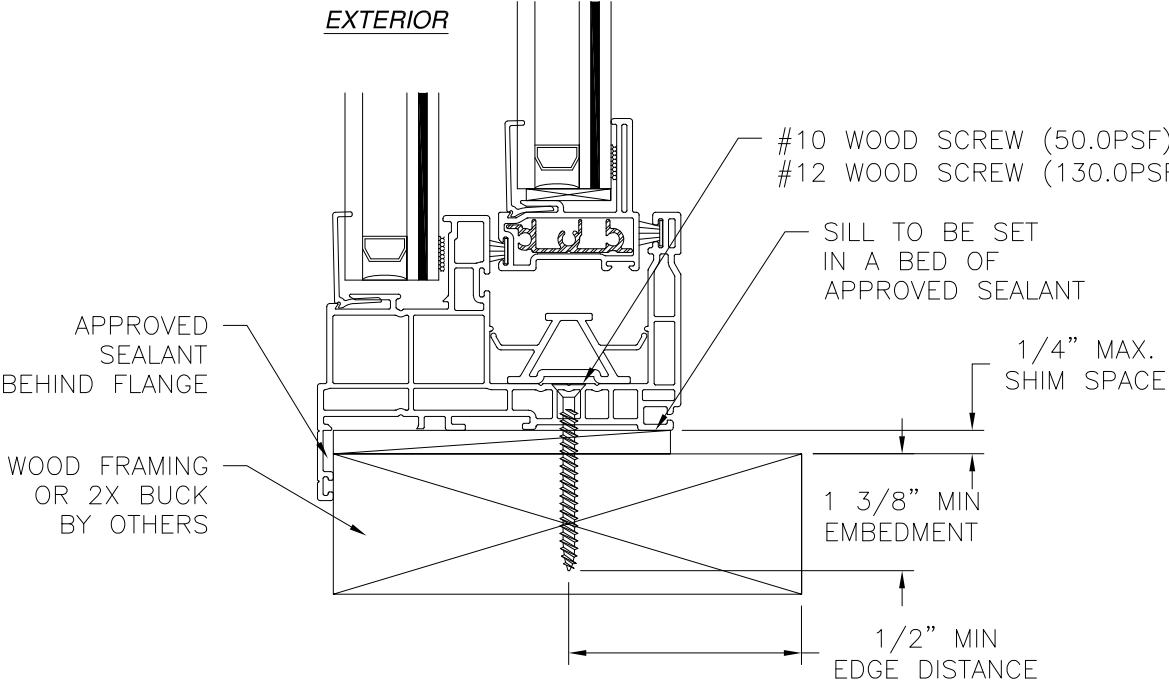
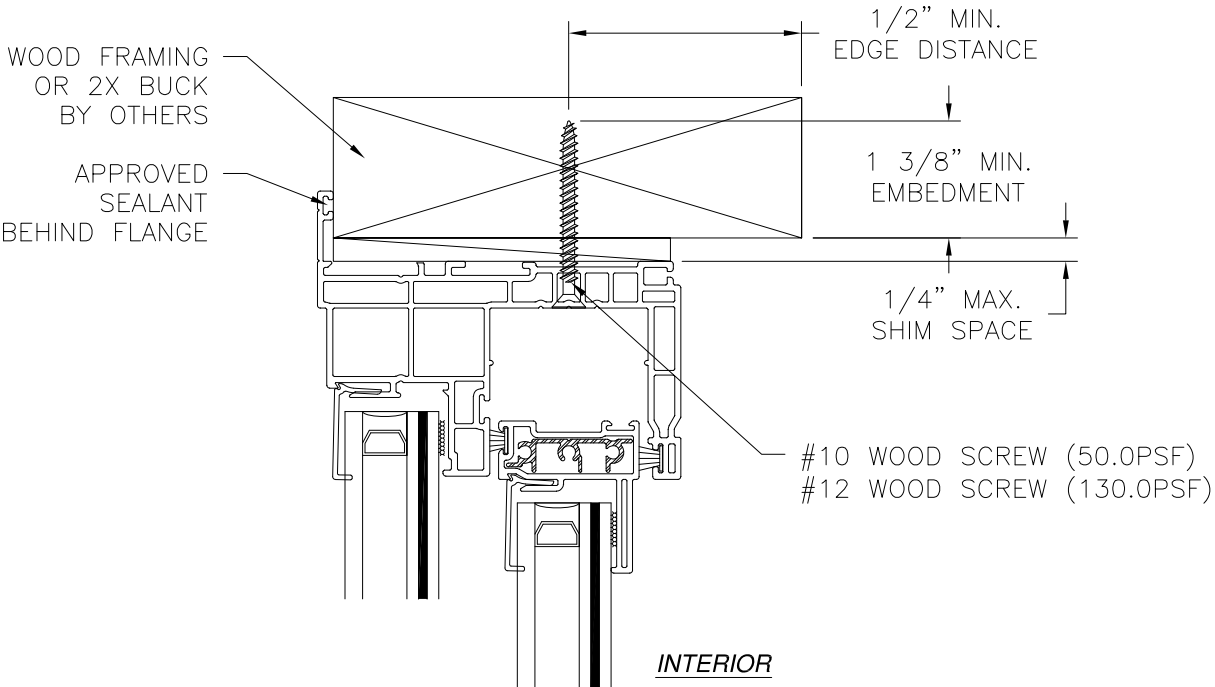
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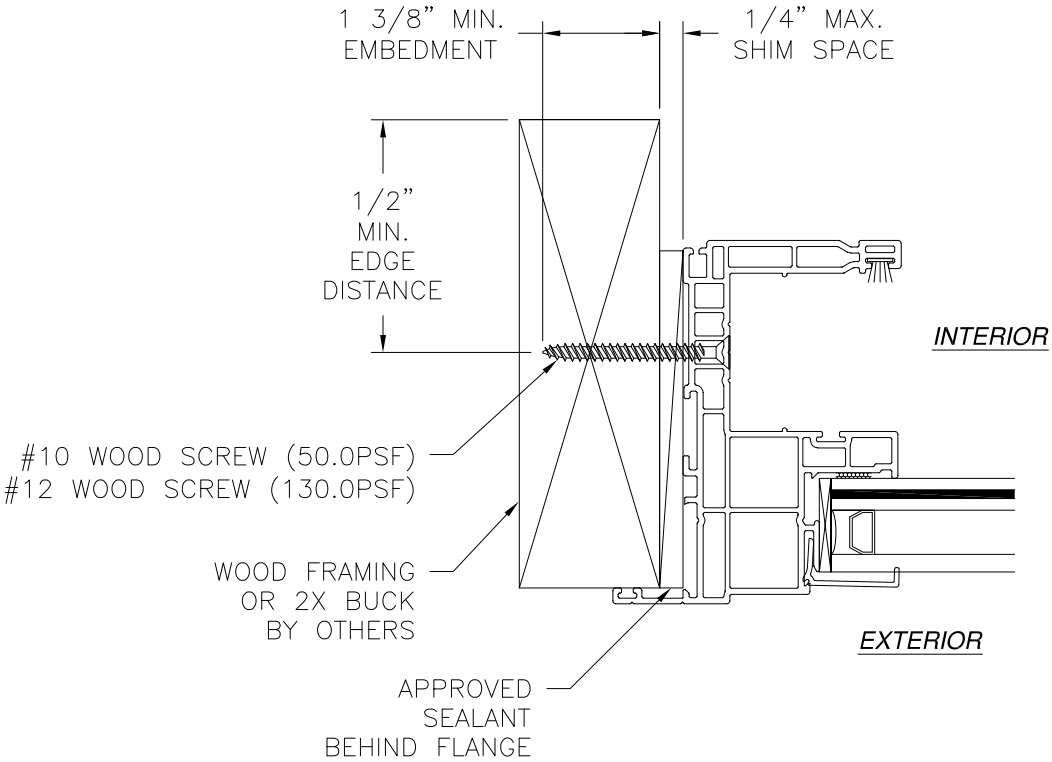


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

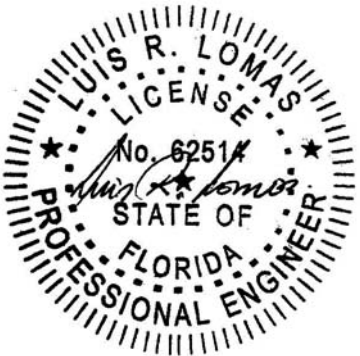


JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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
 3. WATER PROOFING IS INSTALLER'S RESPONSIBILITY AND MUST BE DONE PER FMA/AAMA/WDMA STANDARDS.

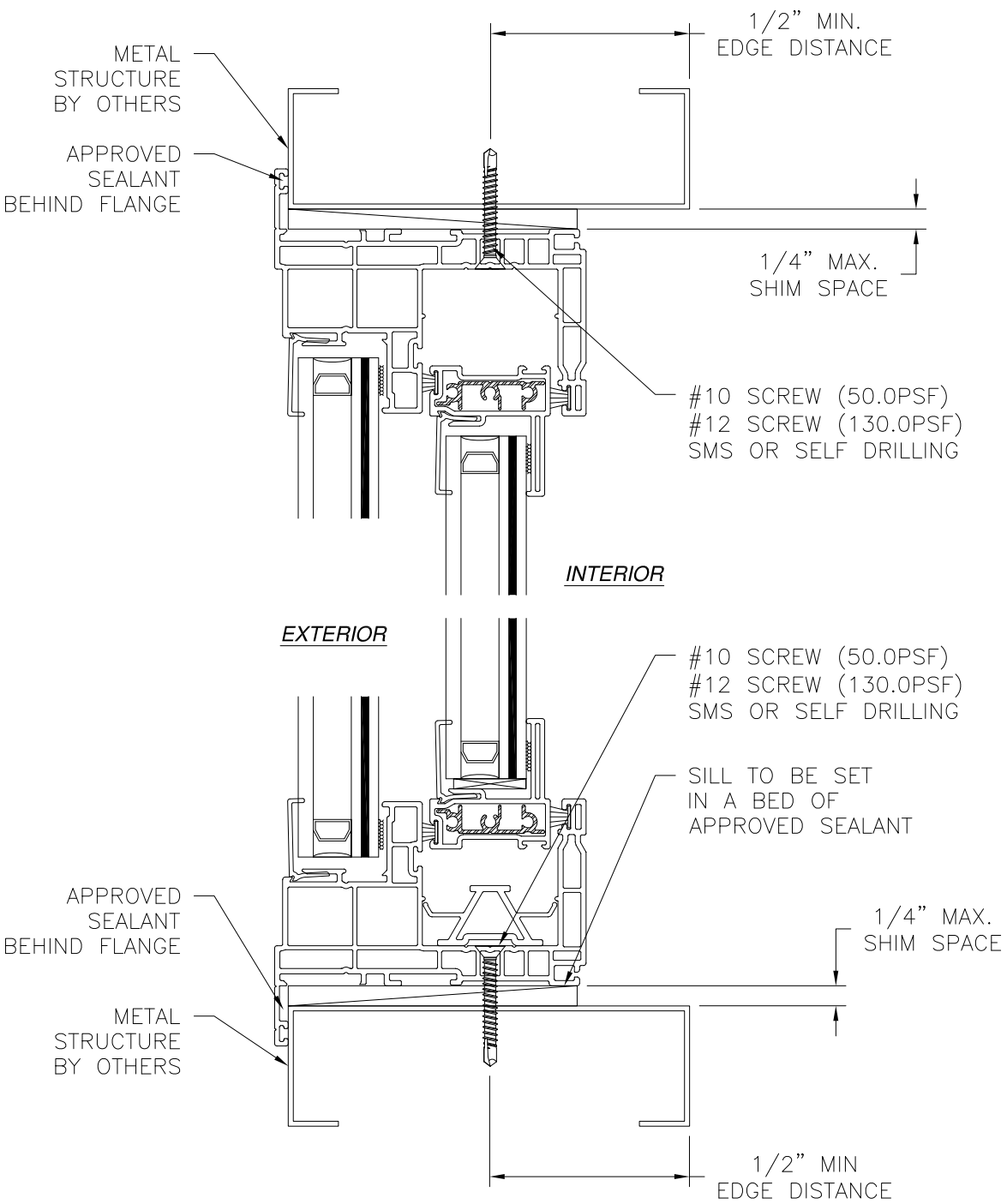
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SHWINCO ARCHITECTURAL PRODUCTS, LLC		
171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW XO IMPACT HVHZ FLANGE INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 5 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

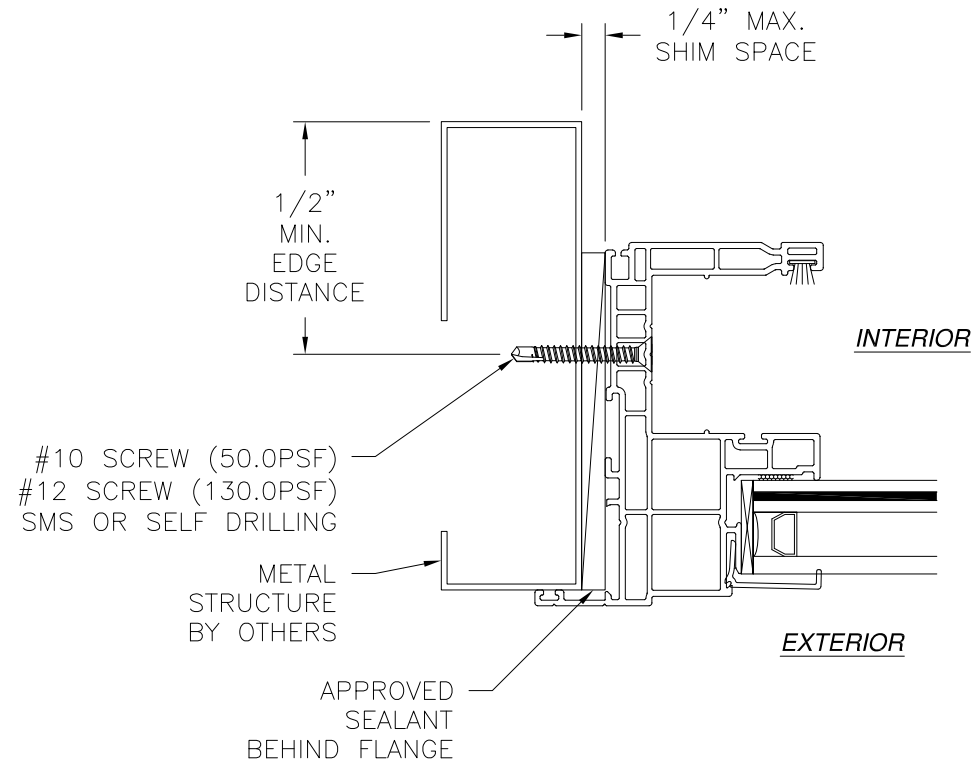


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

- NOTES:
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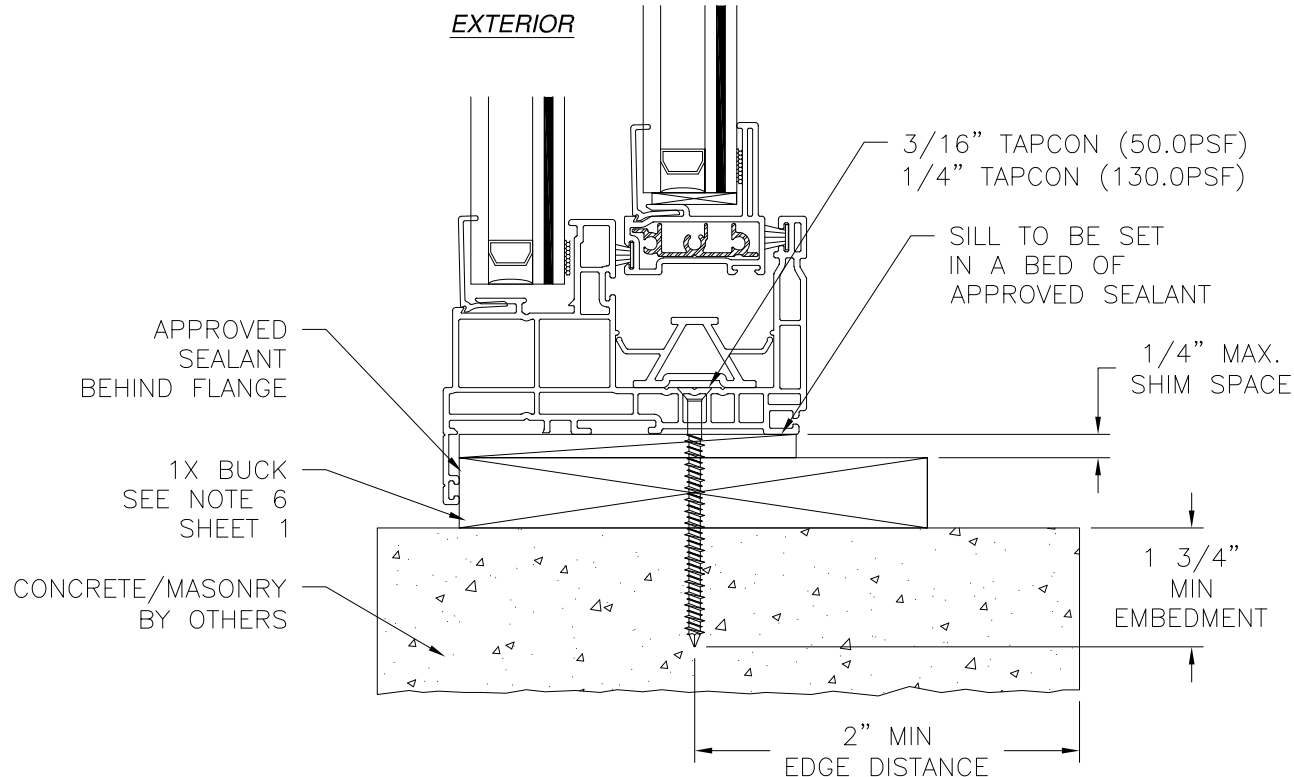
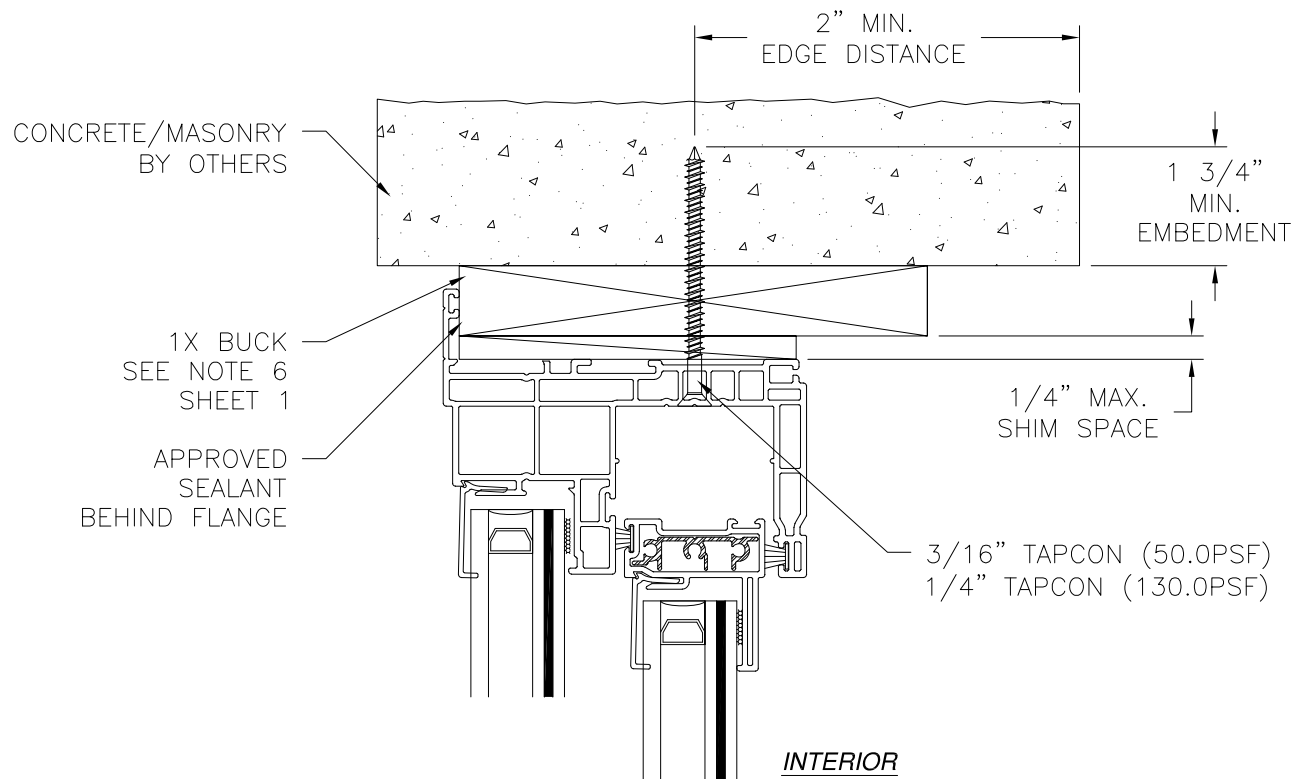
SERIES 9050 HS WINDOW XO
IMPACT HVHZ
FLANGE INSTALLATION DETAILS

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

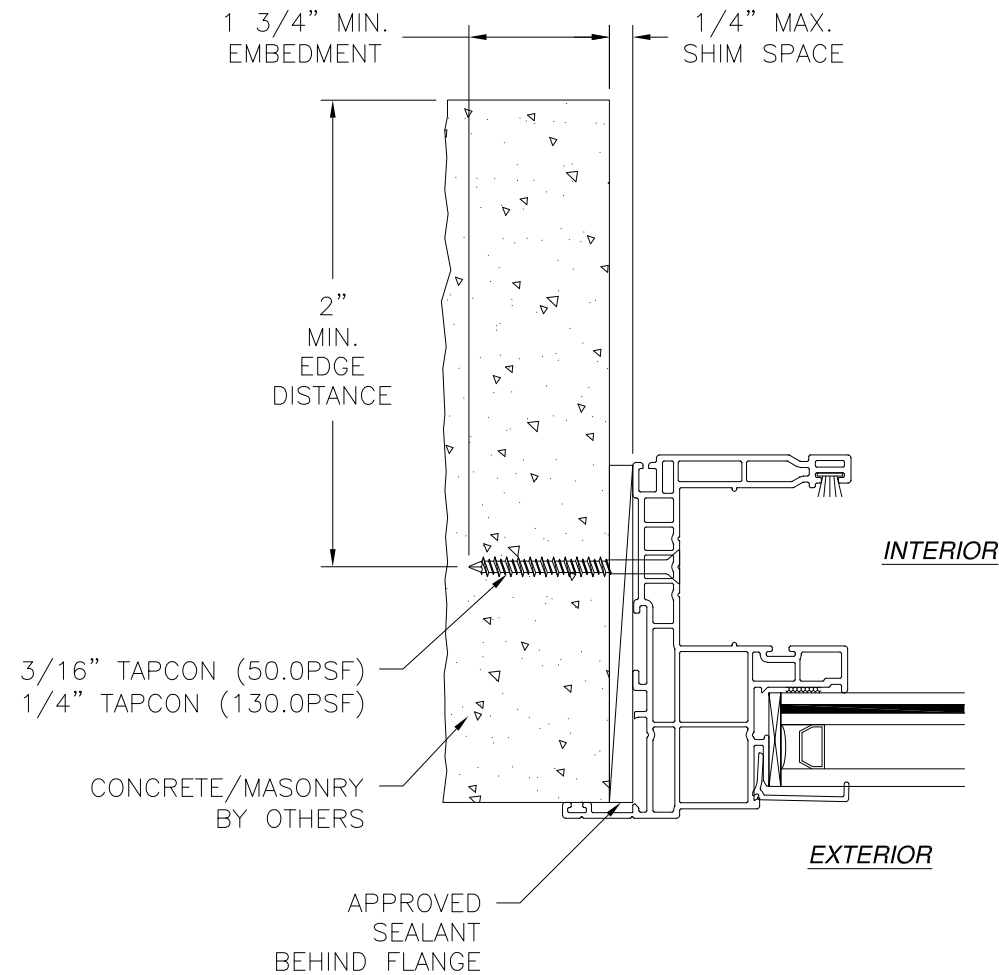
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL

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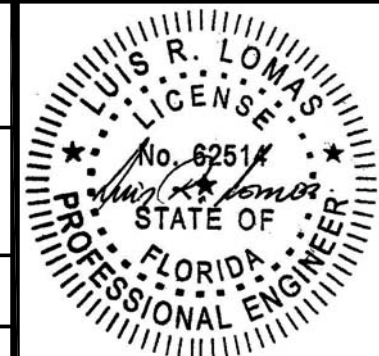
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO
HEAD AND SILL INSTALLATION DETAILS

SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XO
IMPACT HVHZ
FLANGE INSTALLATION DETAILS

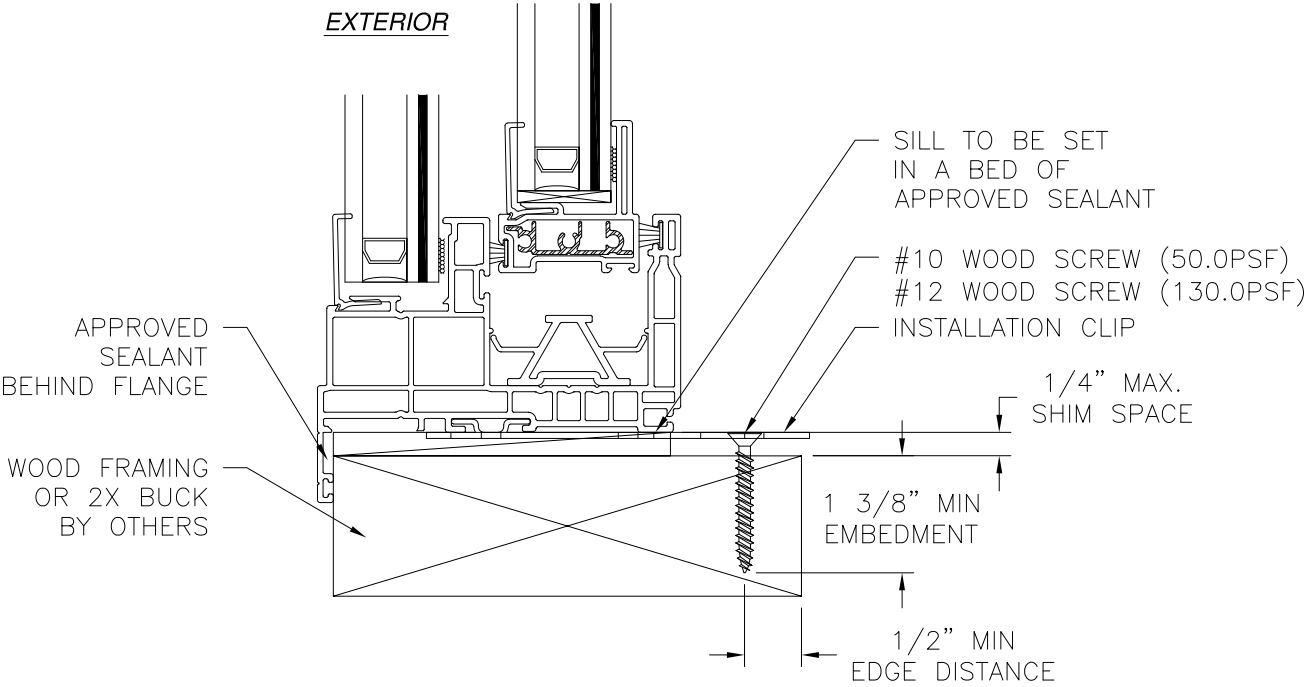
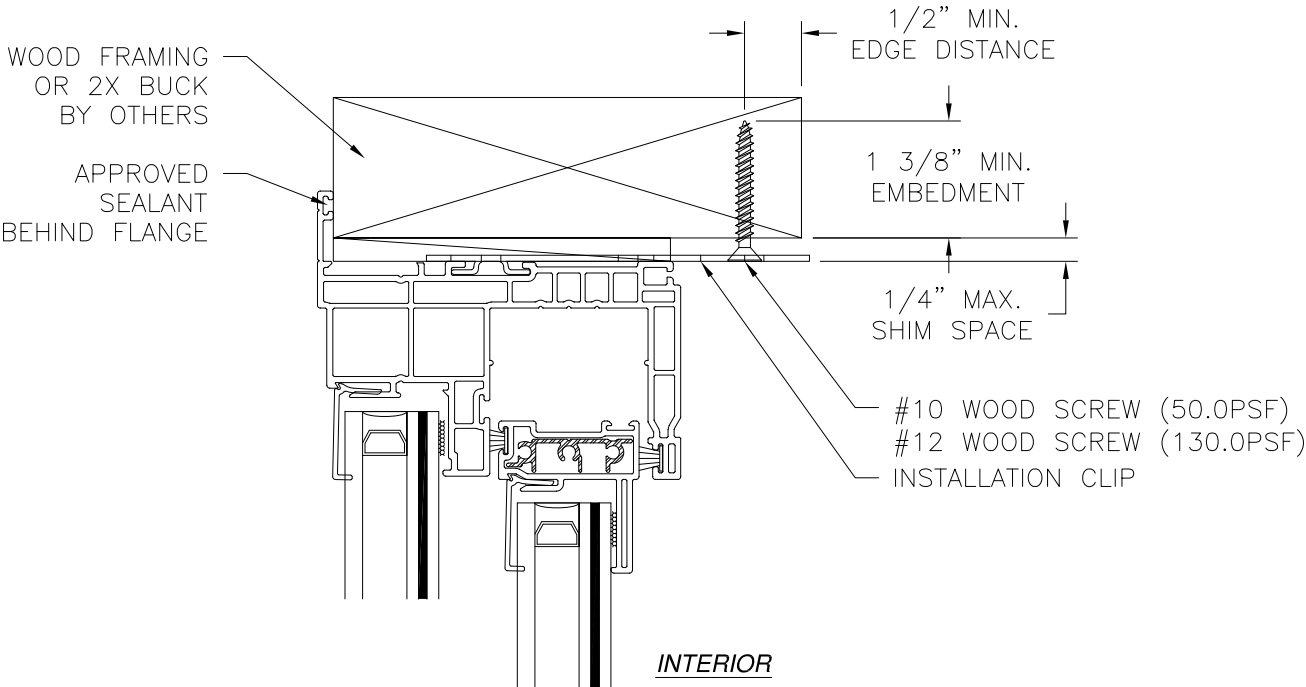
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L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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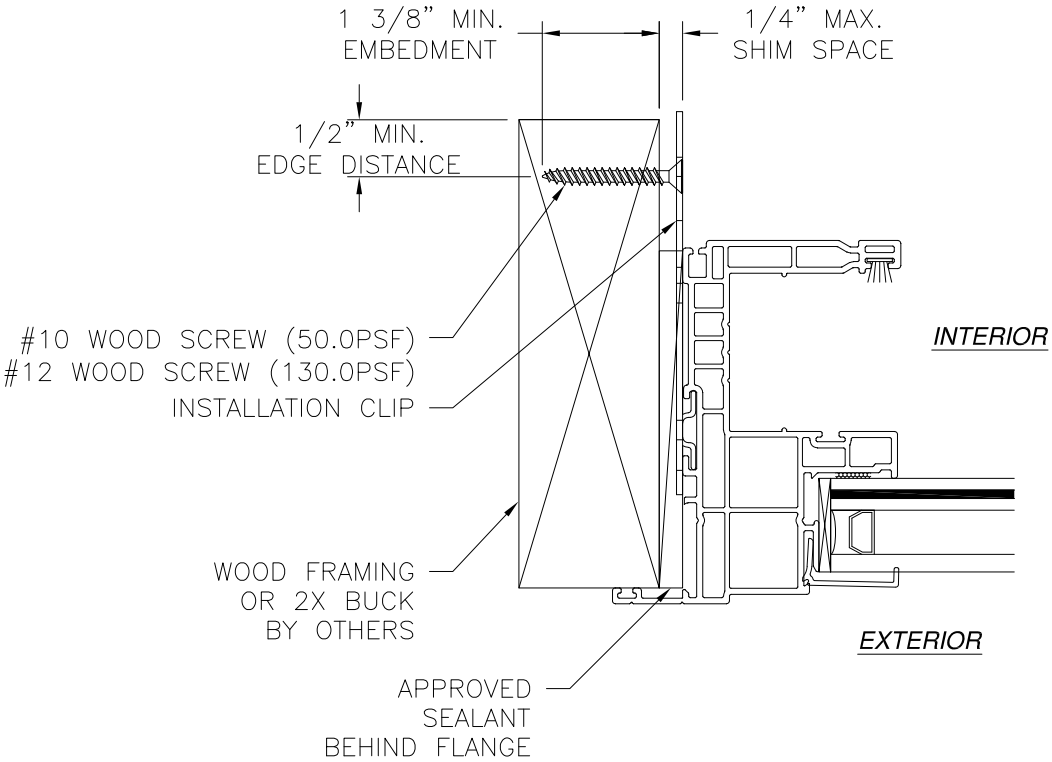


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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SHWINCO ARCHITECTURAL PRODUCTS, LLC
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SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
CLIP INSTALLATION DETAILS

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SHEET
8
OF
16

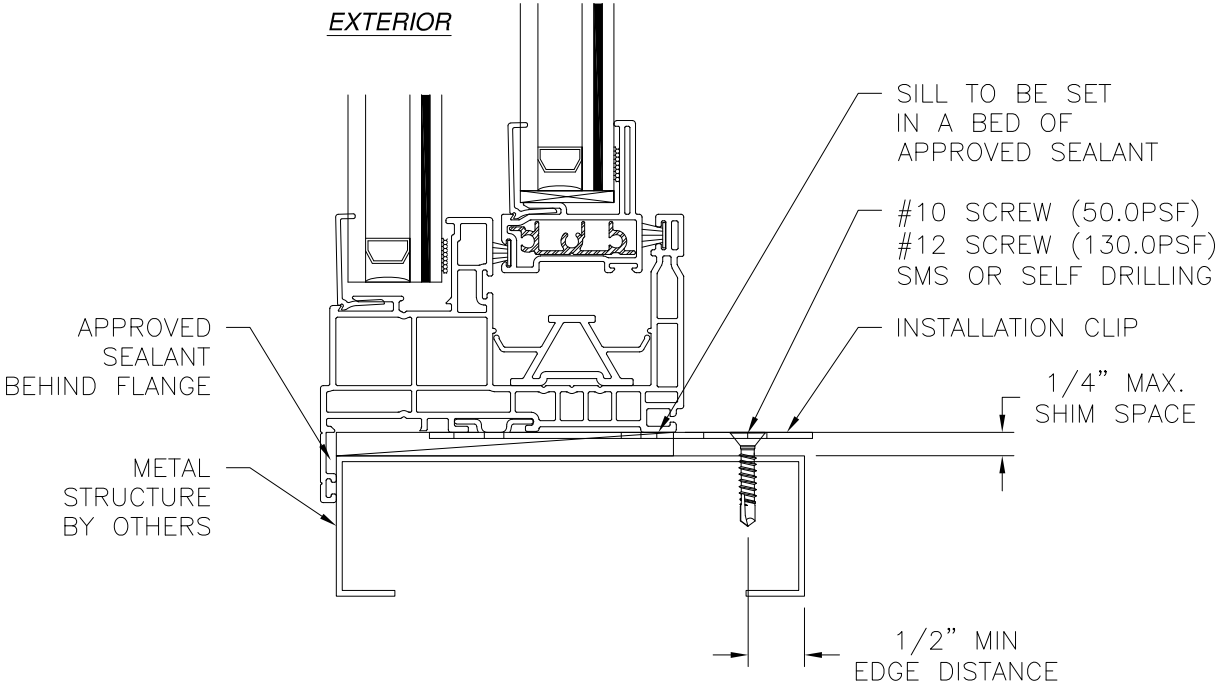
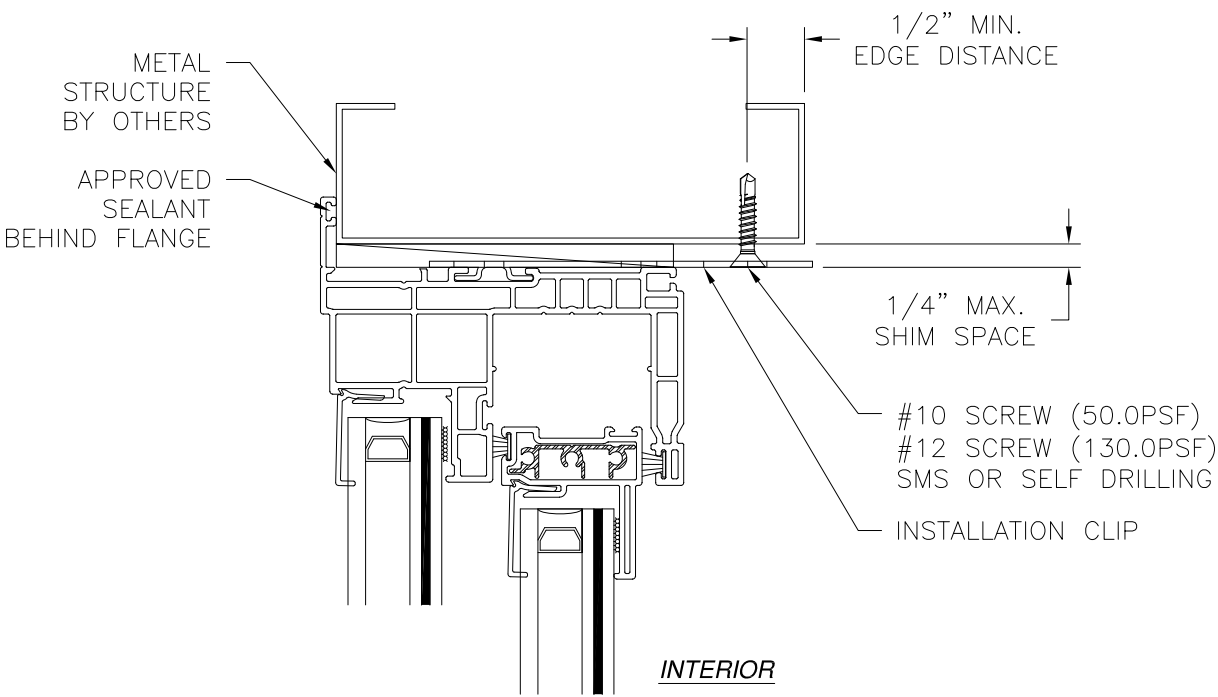
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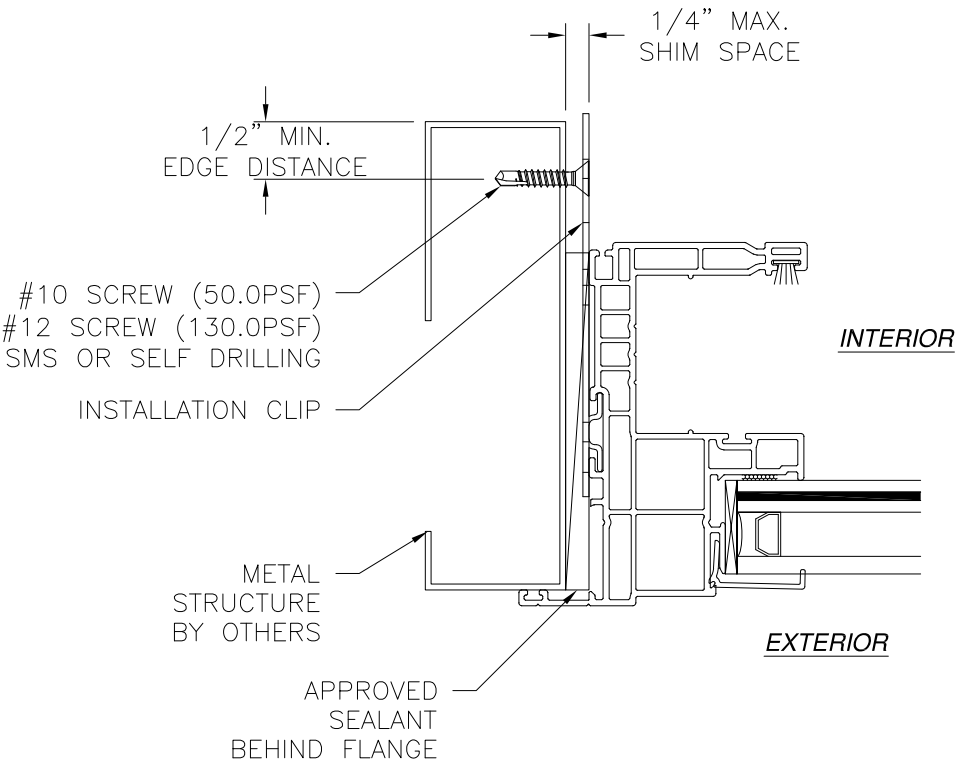


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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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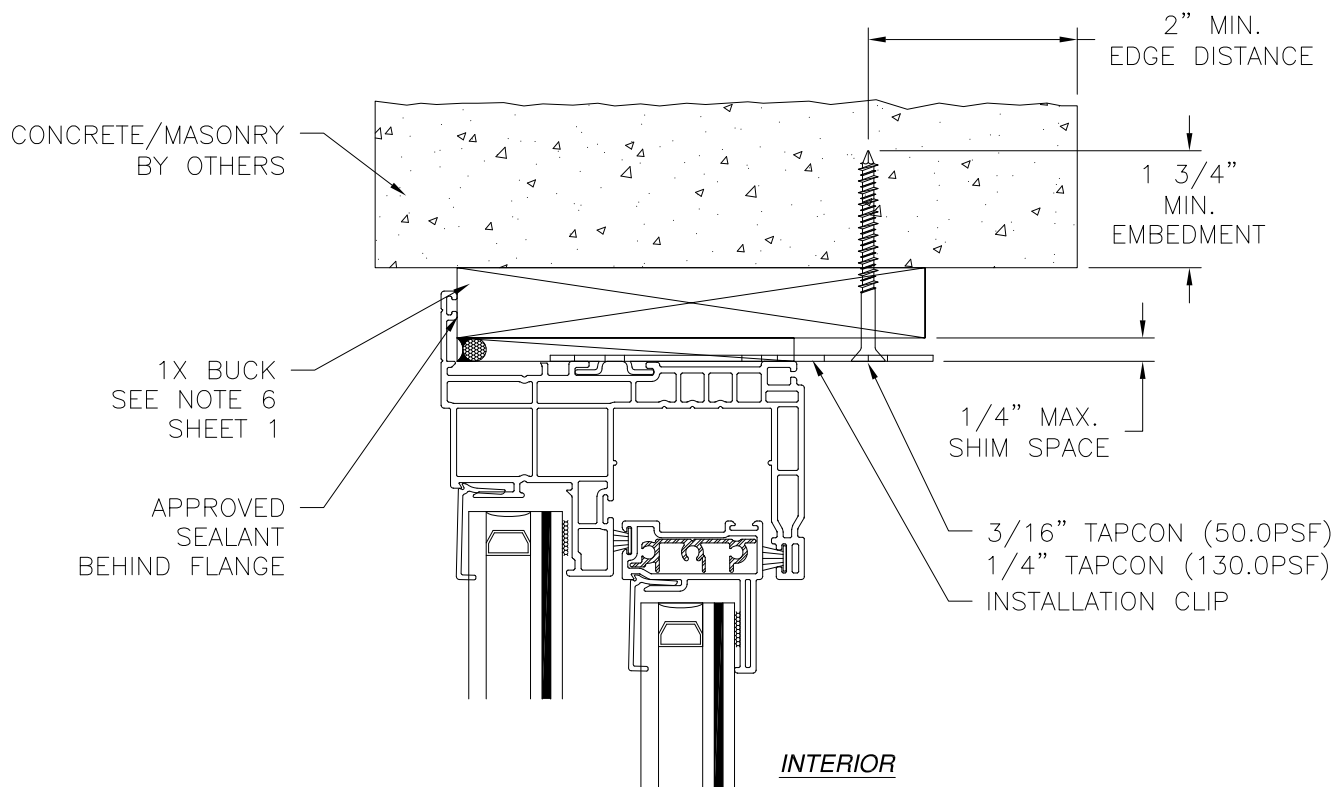
SHWINCO ARCHITECTURAL PRODUCTS, LLC
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SERIES 9050 HS WINDOW XOx
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CLIP INSTALLATION DETAILS

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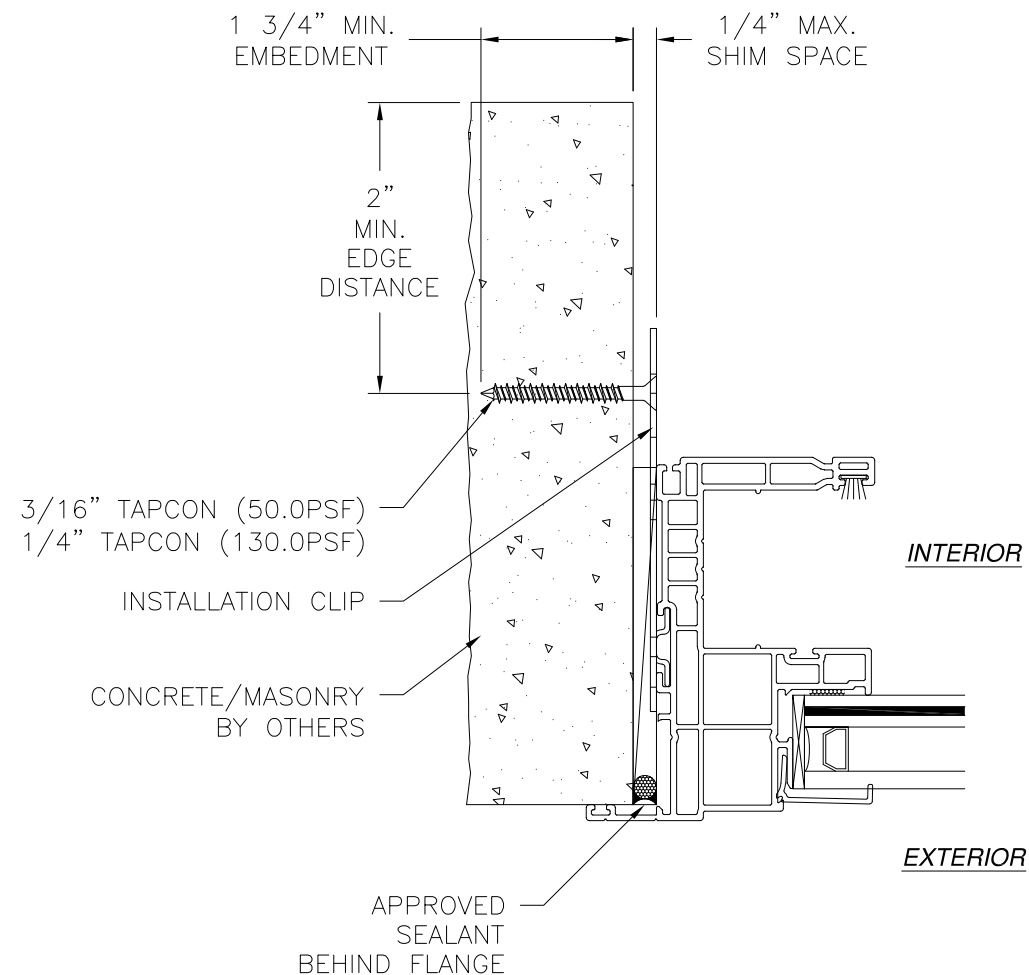
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EXTERIOR

INTERIOR



INTERIOR

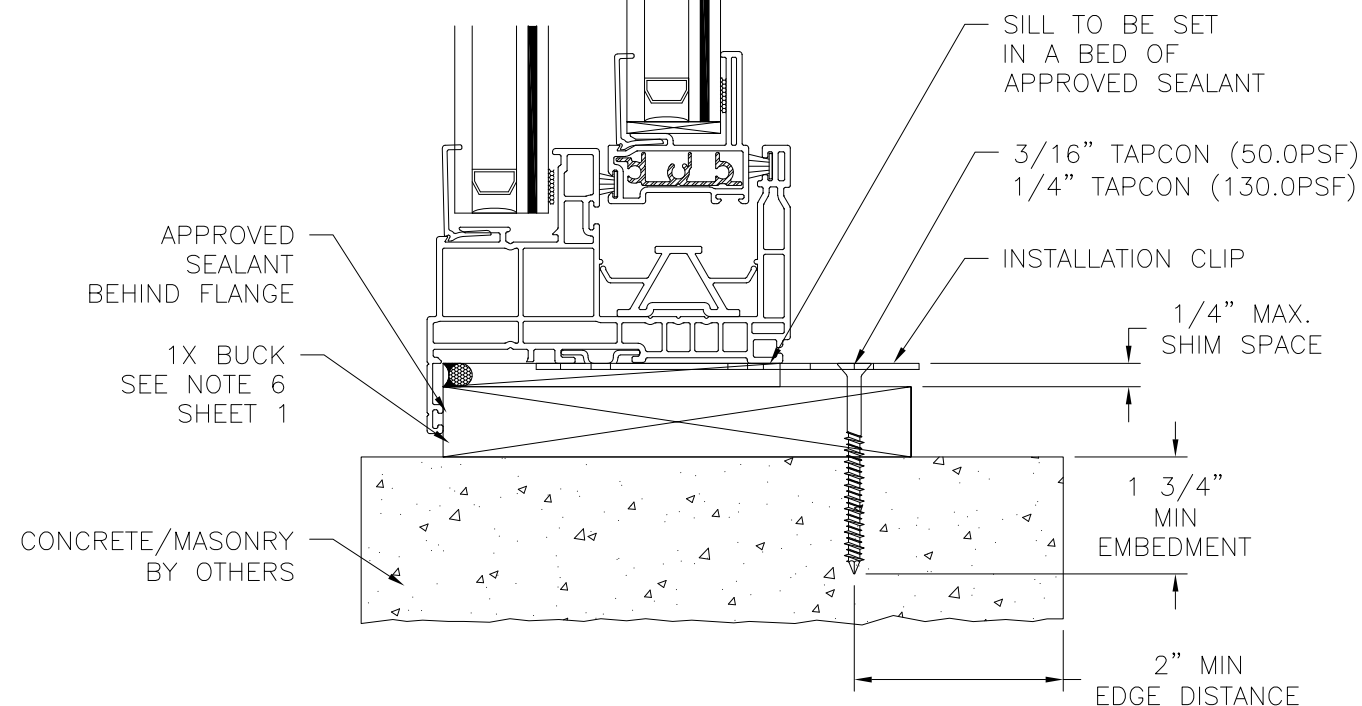
EXTERIOR

JAMB INSTALLATION DETAIL

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

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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.

SHWINCO ARCHITECTURAL PRODUCTS, LLC

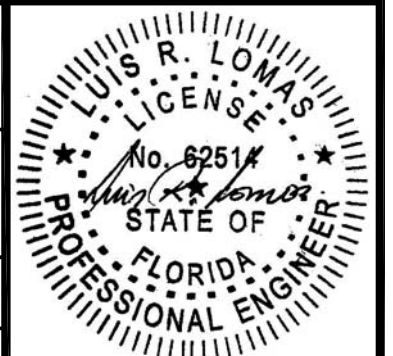
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
CLIP INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 10 OF 16

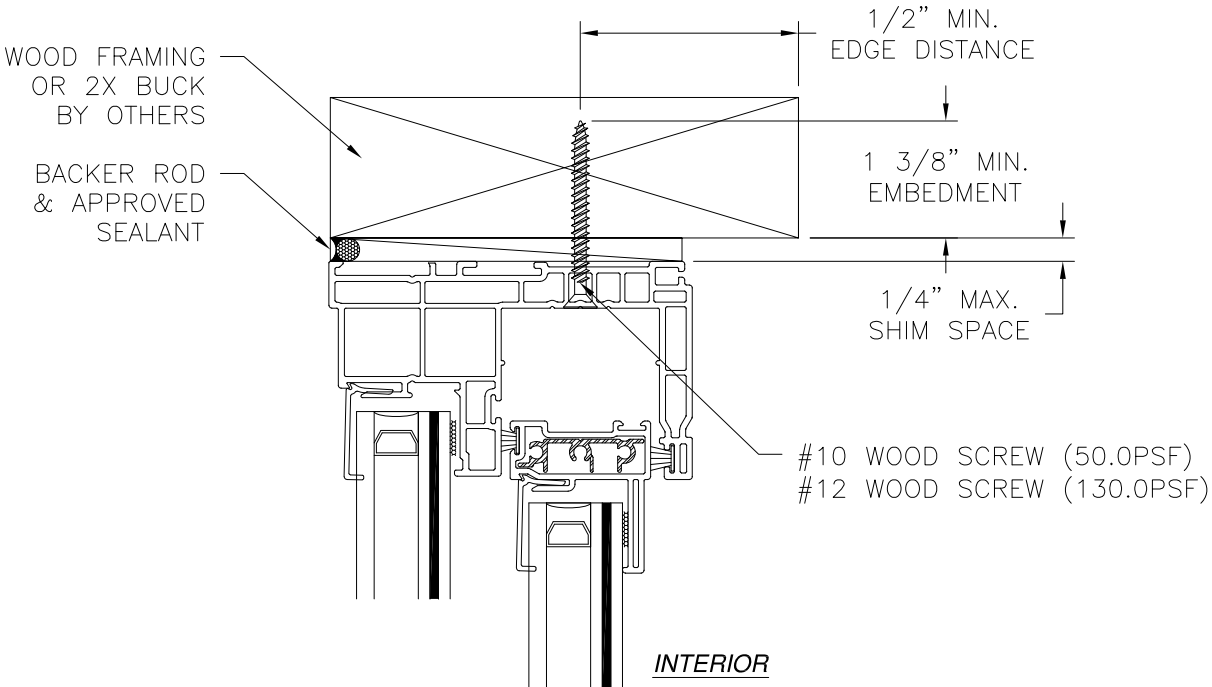
L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 08/24/2023

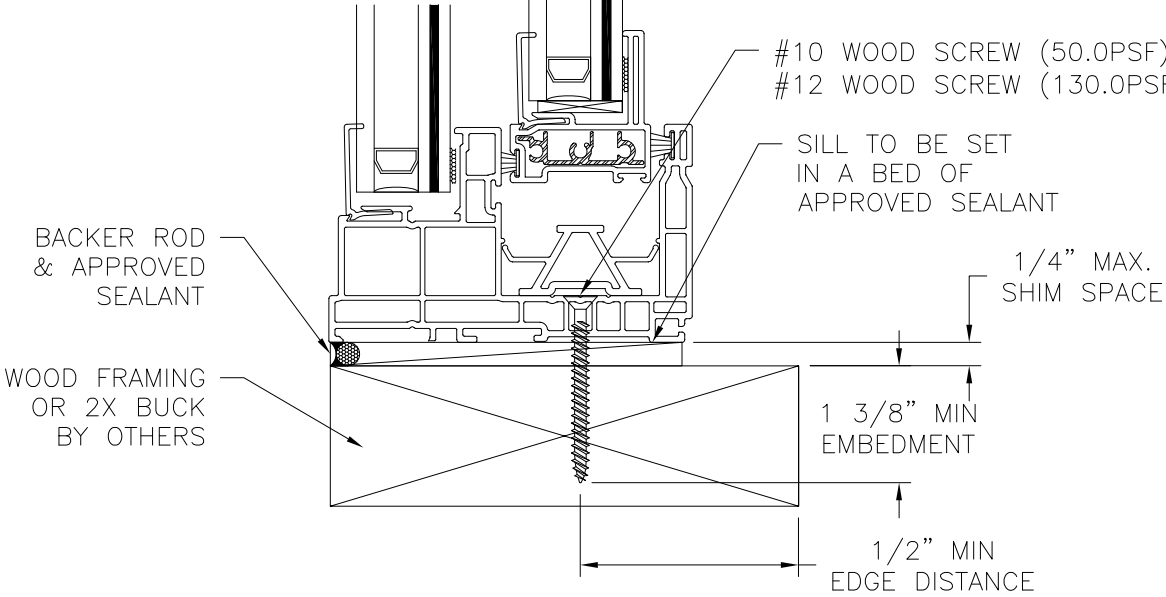


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FL No.: 62514

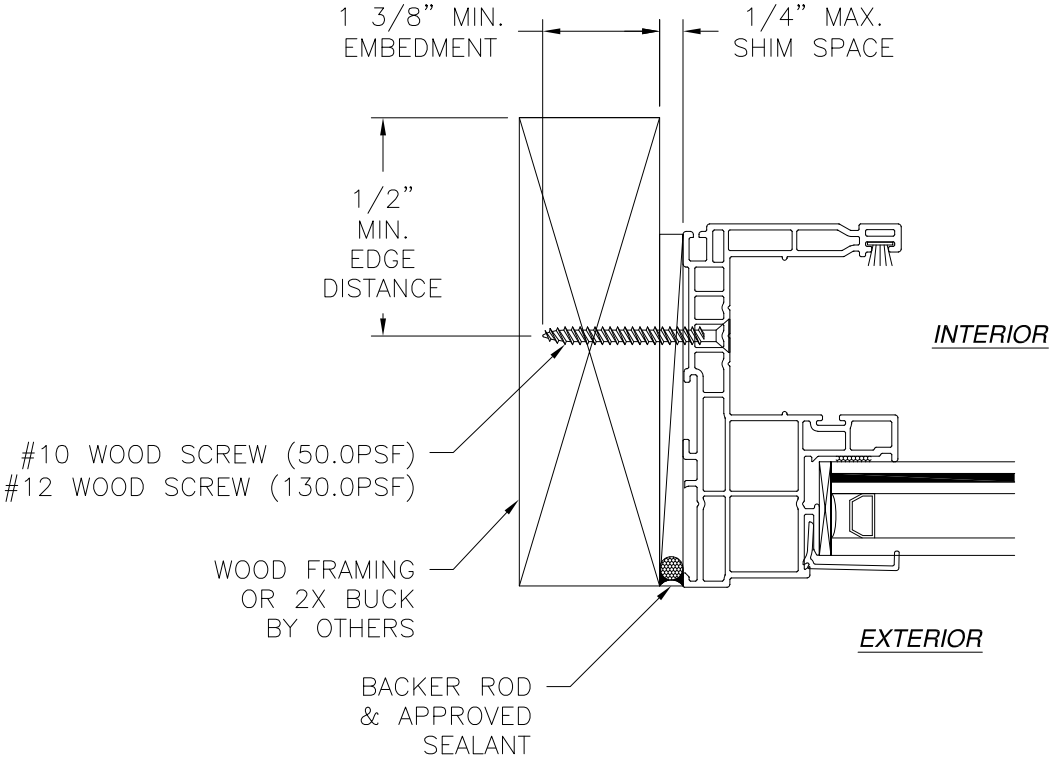
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.



EXTERIOR



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
 3. WATER PROOFING IS INSTALLER'S RESPONSIBILITY AND MUST BE DONE PER FMA/AAMA/WDMA STANDARDS.

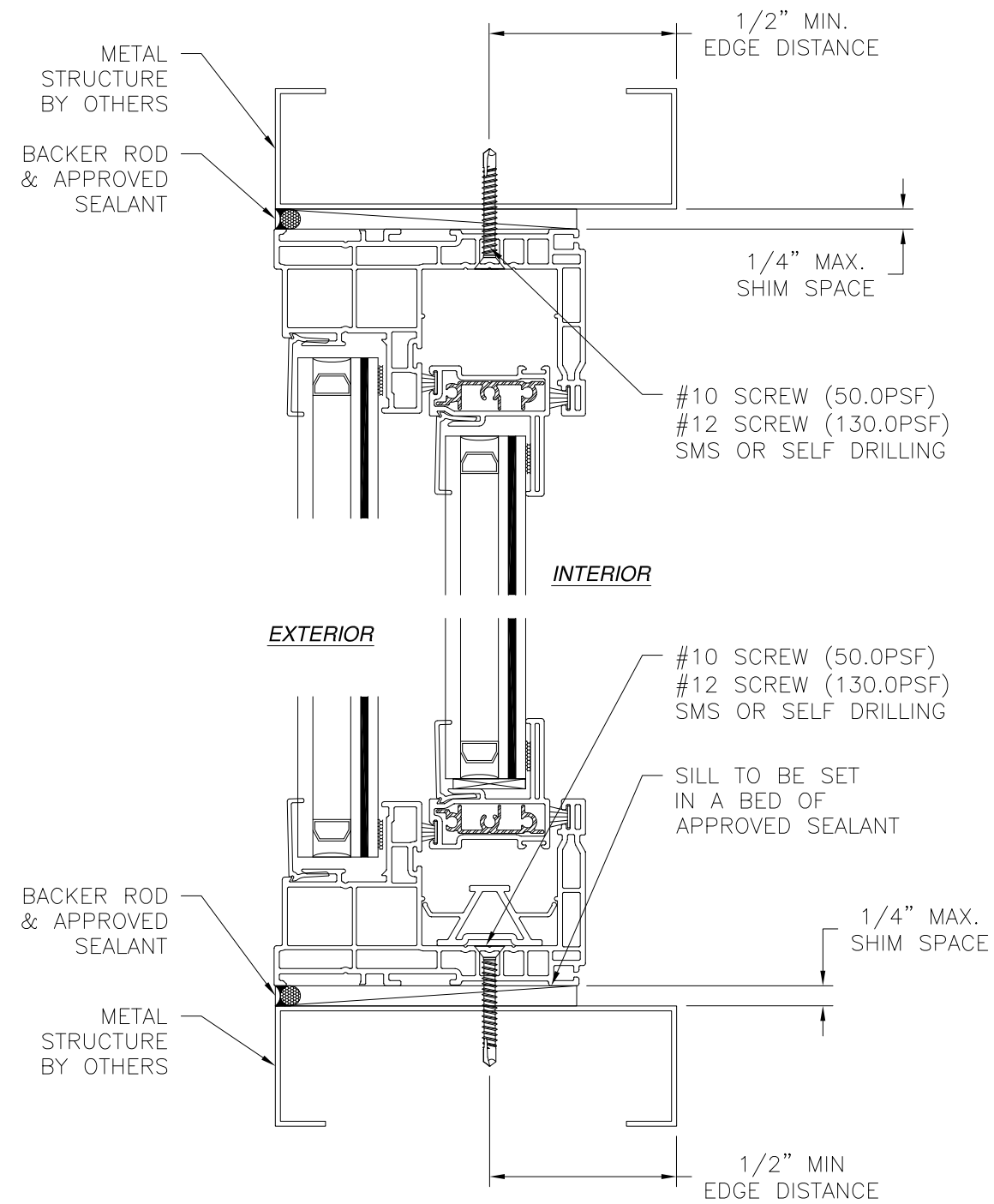
SIGNED: 08/24/2023

SHWINCO ARCHITECTURAL PRODUCTS, LLC		
171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW XO IMPACT HVHZ BOX INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 11 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

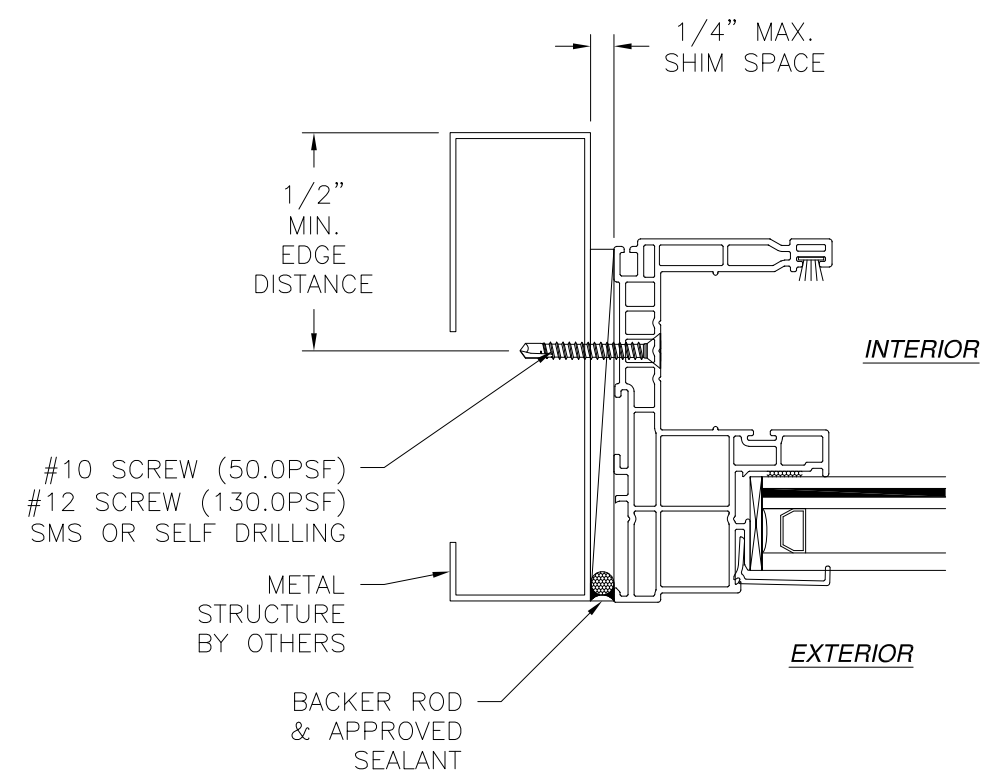


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FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

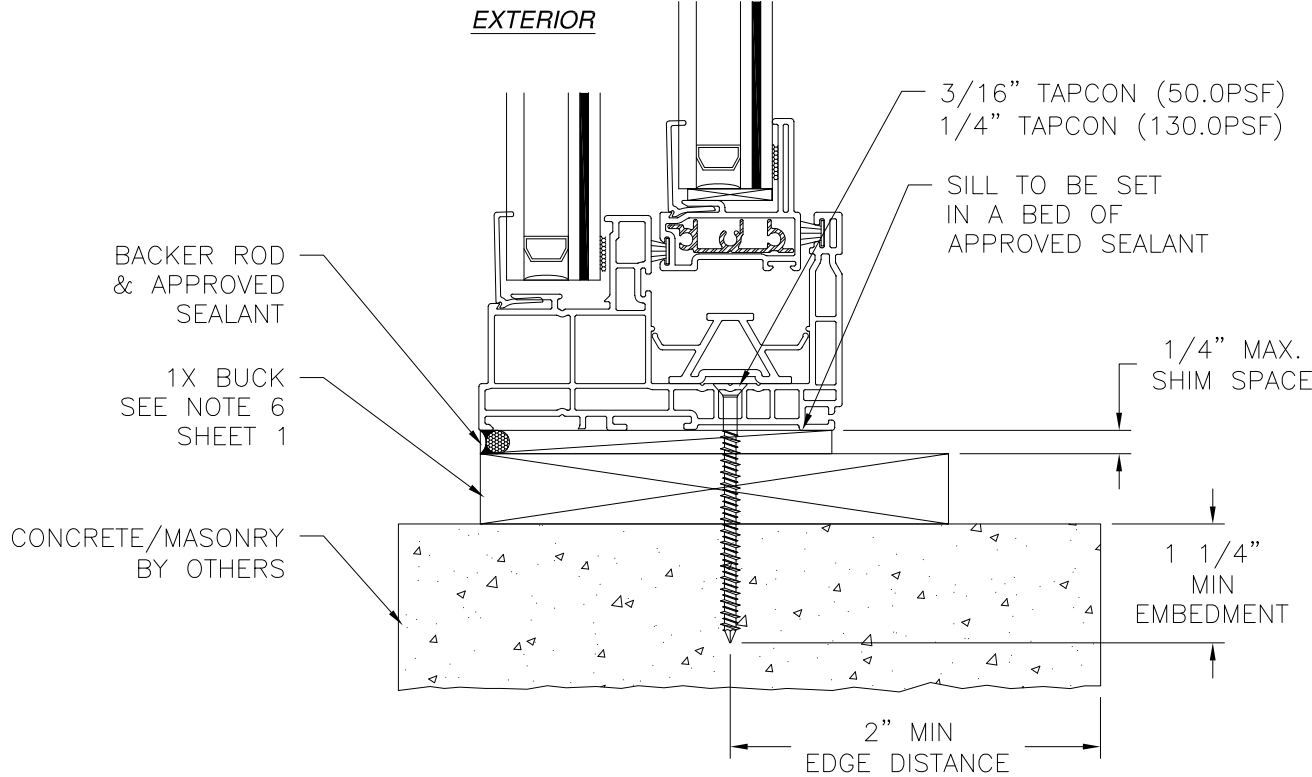
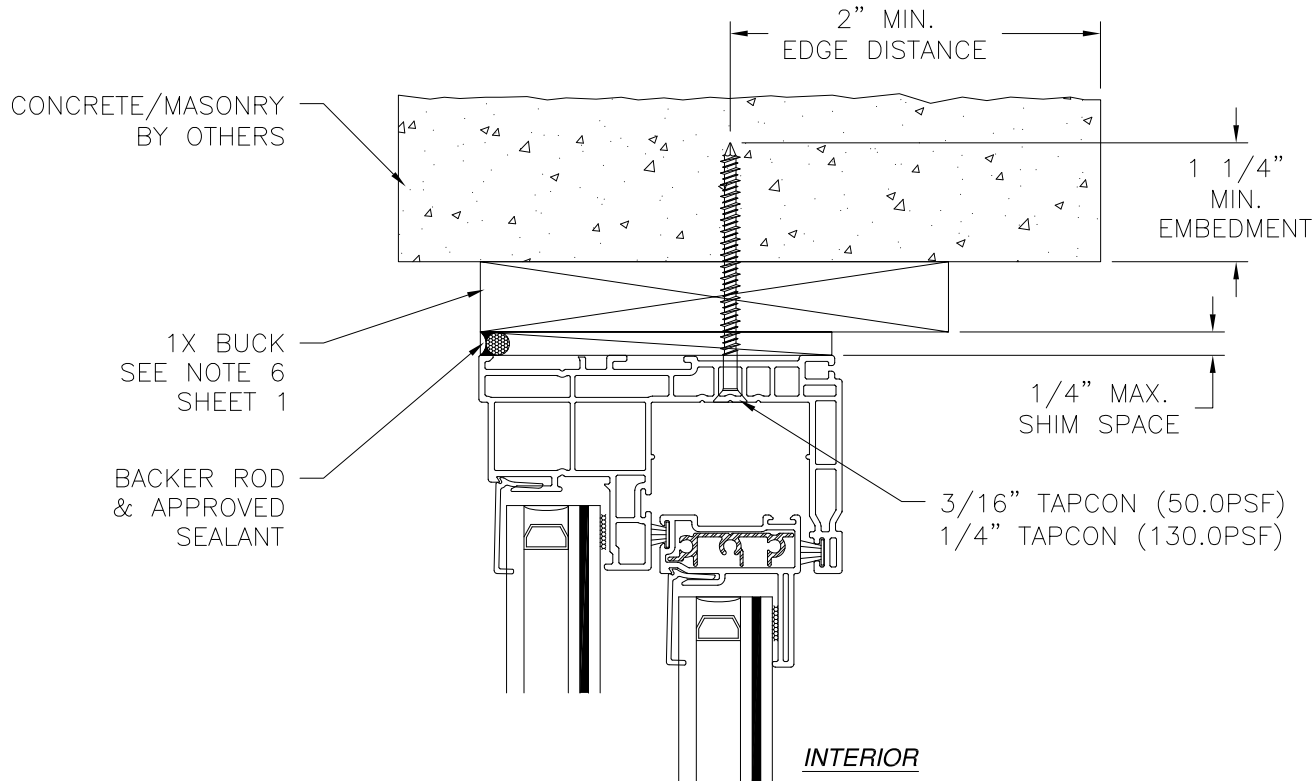
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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SIGNED: 08/24/2023

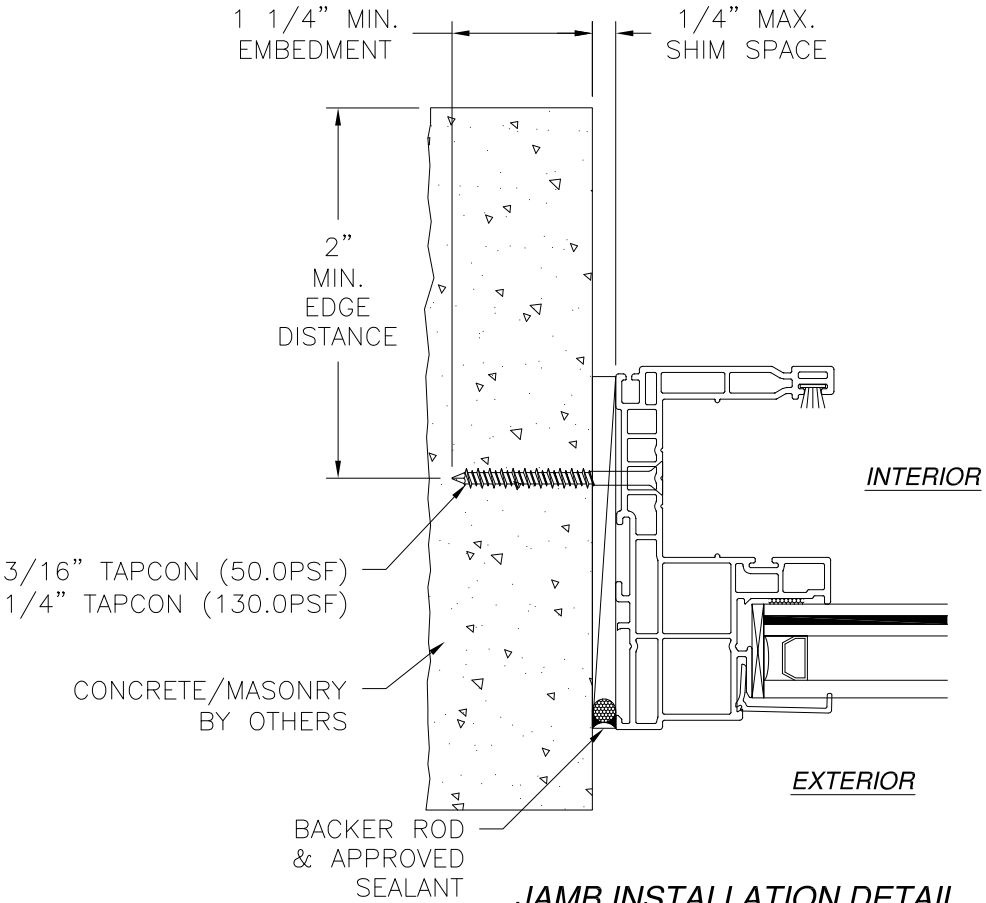
SHWINCO ARCHITECTURAL PRODUCTS, LLC		
171 JET SERVICES WAY DOTHAN, AL 36303		
SERIES 9050 HS WINDOW XO IMPACT HVHZ BOX INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 12 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER NEW CODE	08/24/2023	R.L.



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.
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SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XOx

IMPACT HVHZ

BOX INSTALLATION DETAILS

DRAWN: R.L.

DWG NO. 08-03158

REV A

SCALE NTS

DATE 05/07/2020

SHEET 13 OF 16

L. ROBERTO LOMAS P.E.

208 7th Ave, INDIALANTIC, FL 32903

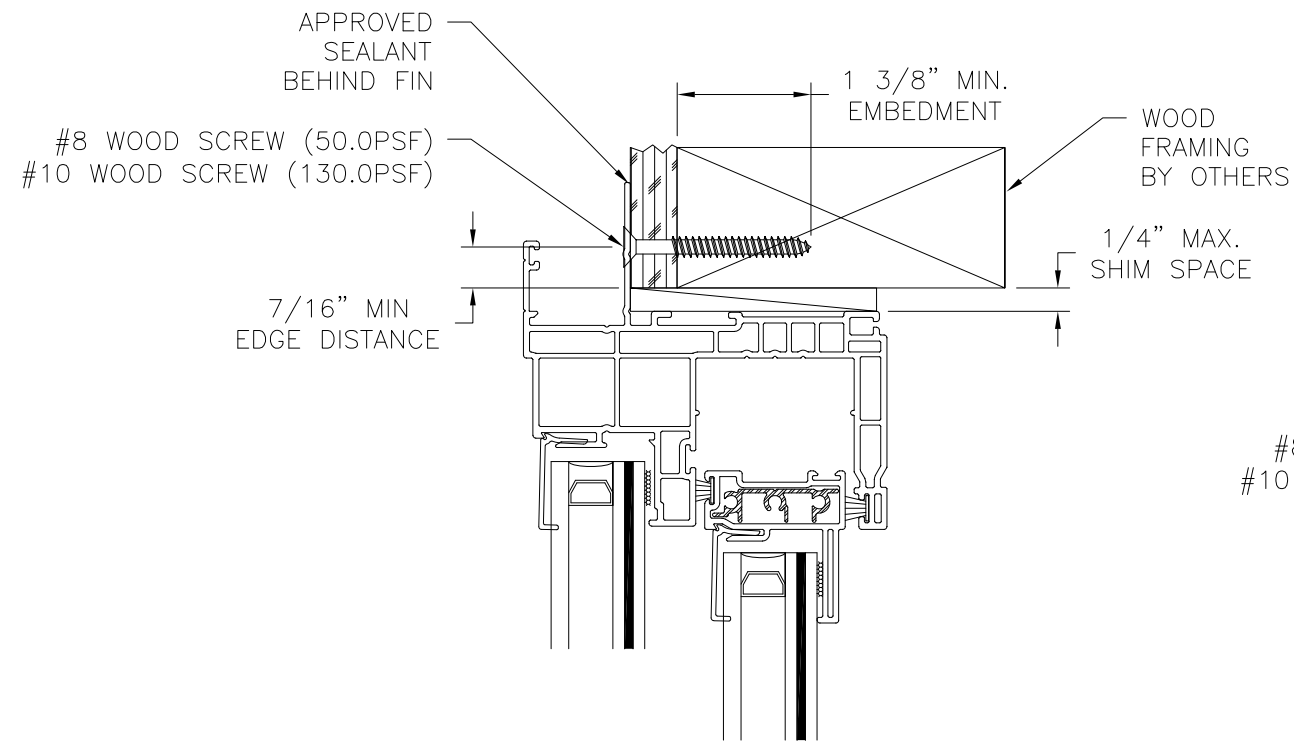
434-688-0609 rllomas@rlomaspe.com

SIGNED: 08/24/2023



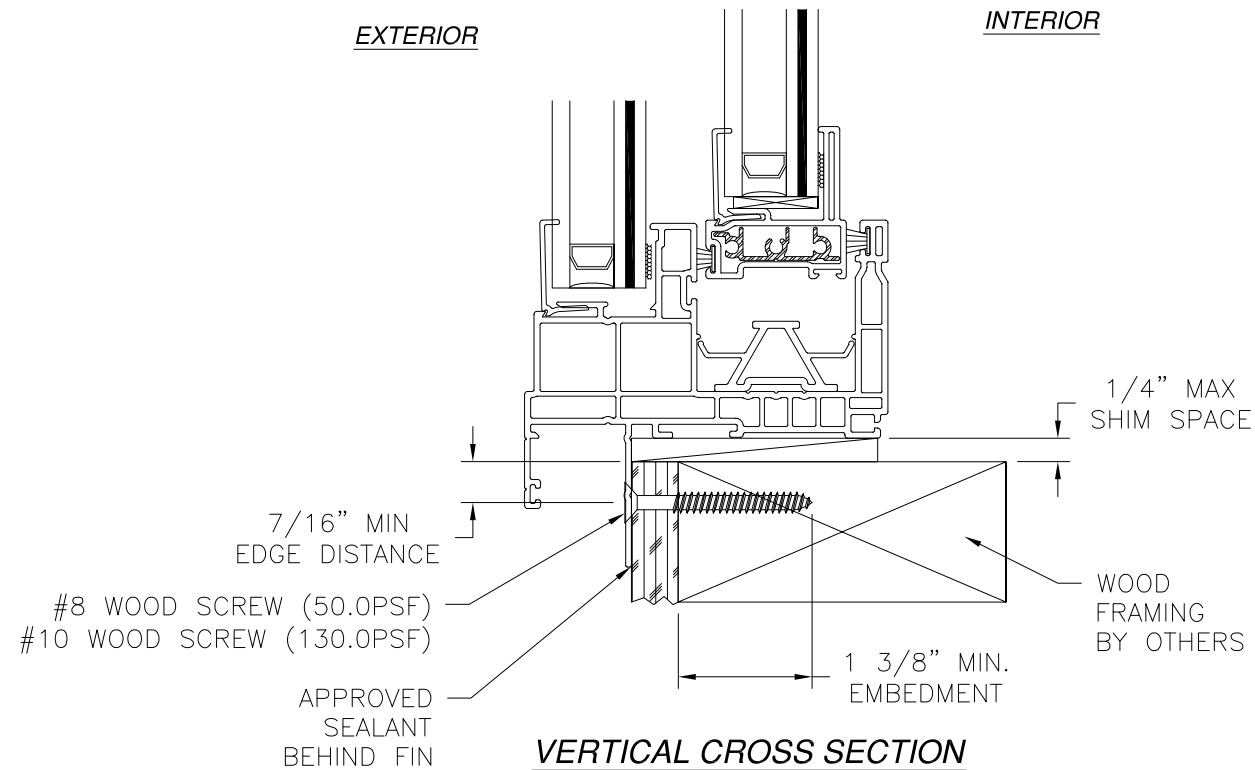
Luis R. Lomas P.E.
 FL No.: 62514

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REV	DESCRIPTION	DATE	APPROVED
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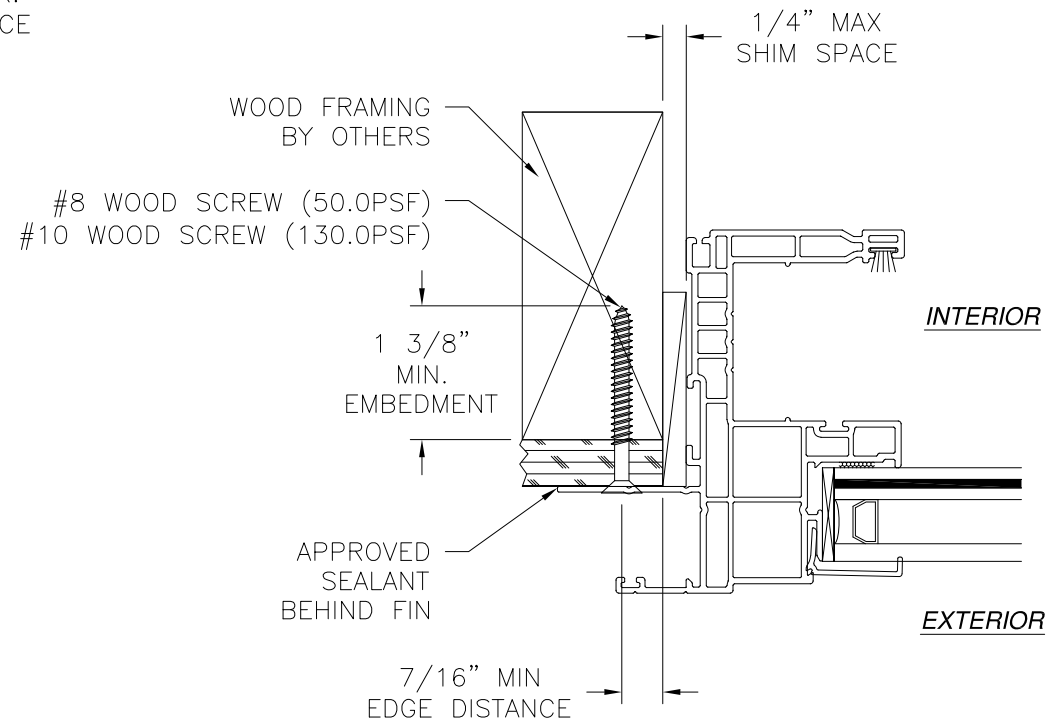


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

NOTES:

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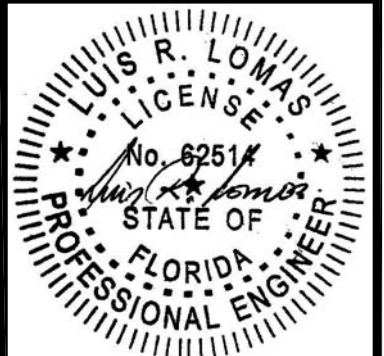
SIGNED: 08/24/2023

SHWINCO ARCHITECTURAL PRODUCTS, LLC

171 JET SERVICES WAY
DOTHAN, AL 36303

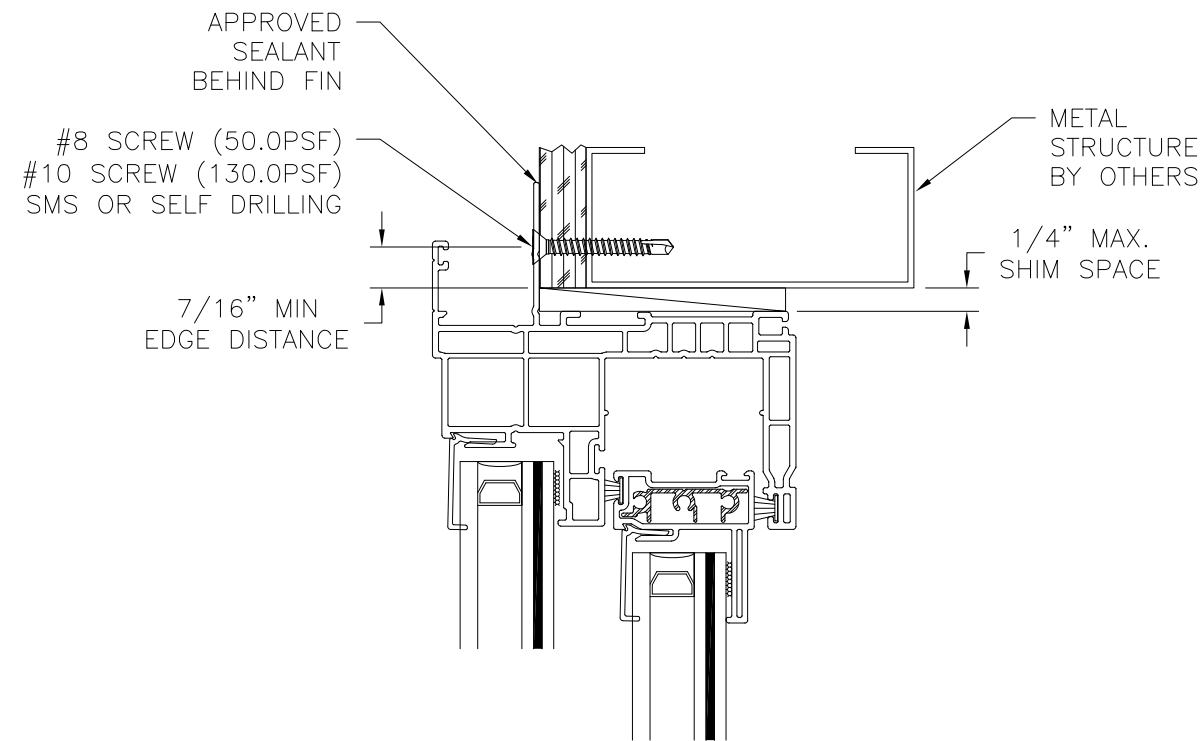
SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
FIN INSTALLATION DETAILS

DRAWN: R.L.	DWG NO. 08-03158	REV A
SCALE NTS	DATE 05/07/2020	SHEET 14 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



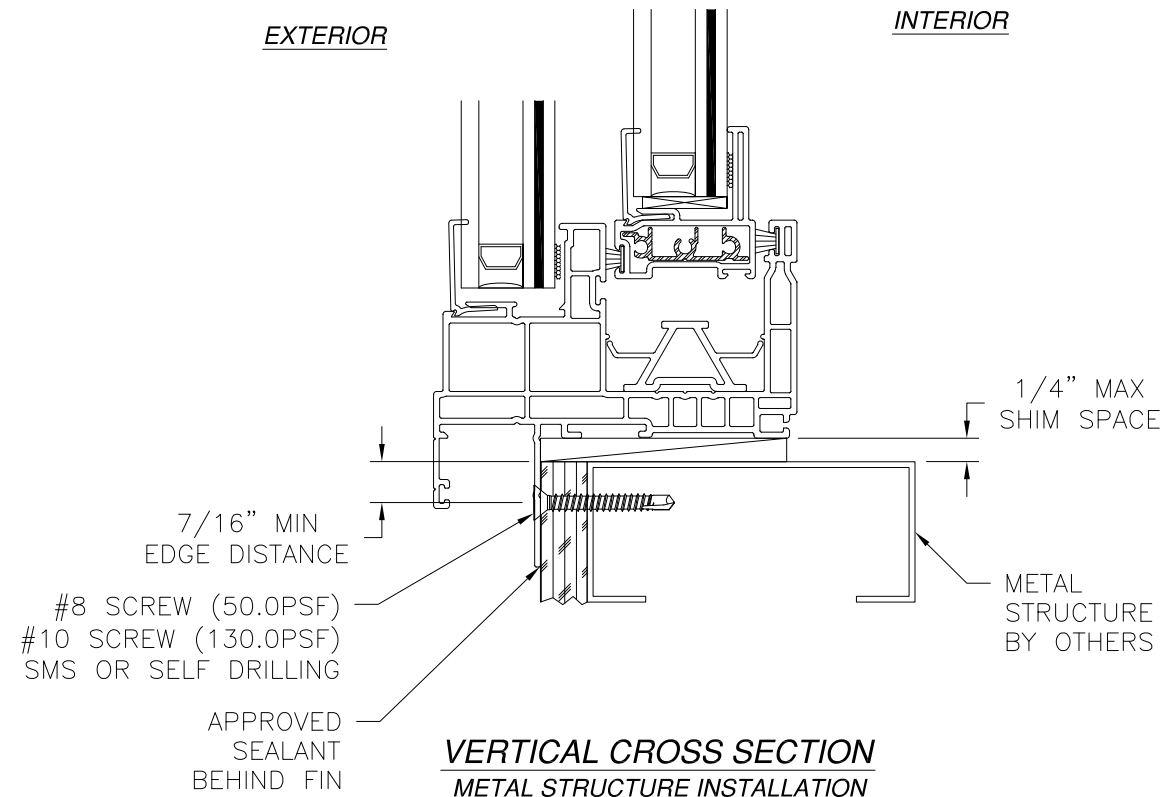
Luis R. Lomas P.E.
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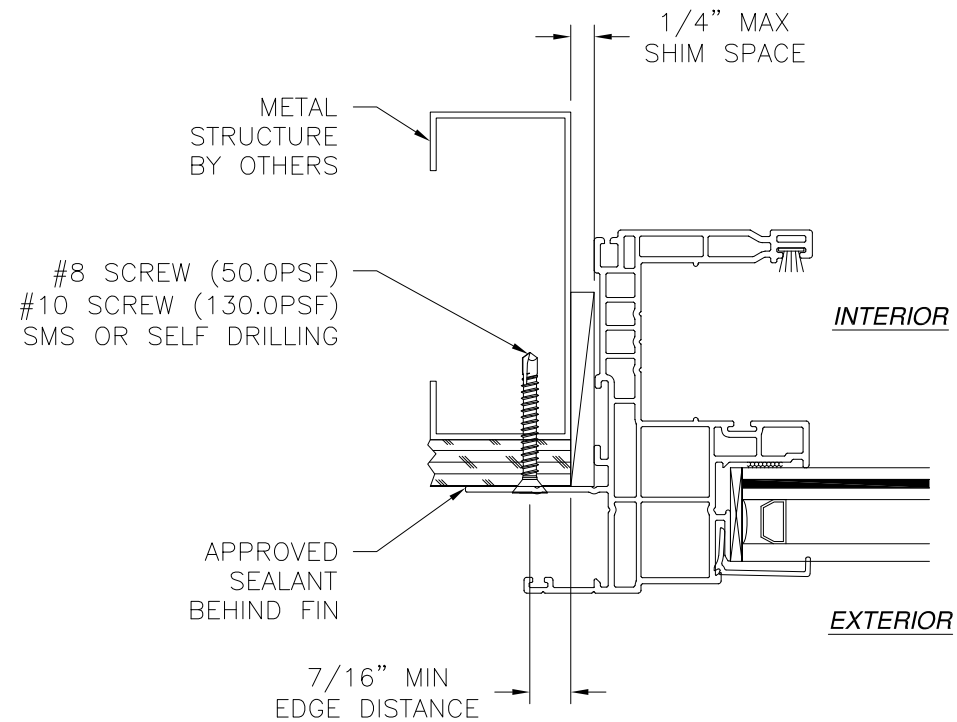


EXTERIOR

INTERIOR



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

NOTES:

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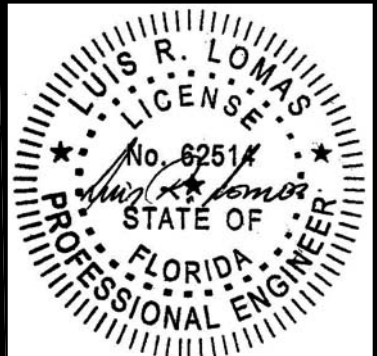
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SHWINCO ARCHITECTURAL PRODUCTS, LLC

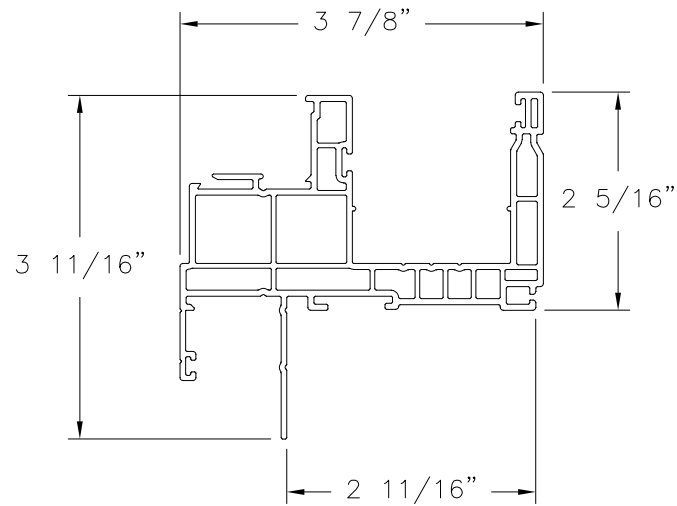
171 JET SERVICES WAY
DOTHAN, AL 36303

SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
FIN INSTALLATION DETAILS

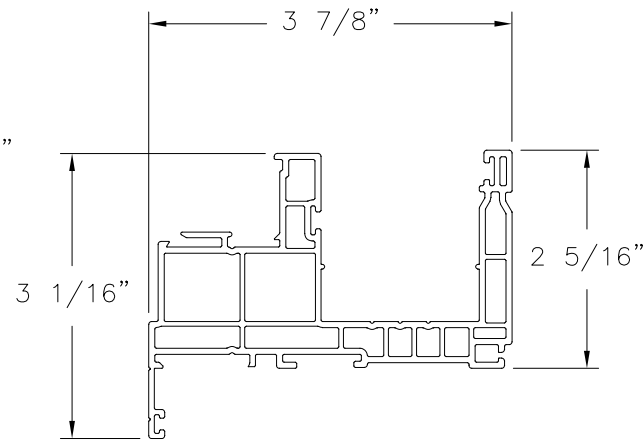
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SCALE NTS	DATE 05/07/2020	SHEET 15 OF 16
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



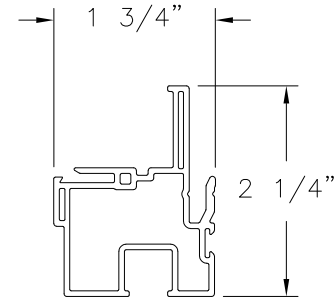
Luis R. Lomas P.E.
FL No.: 62514



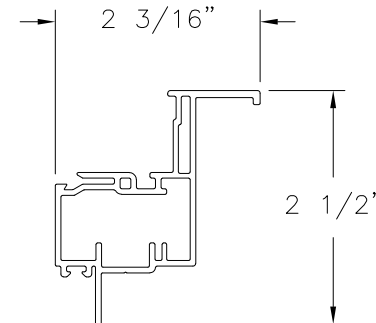
FIN FRAME (VM-2363)
PVC



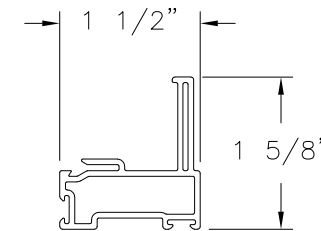
FLANGE FRAME (VM-2363)
PVC



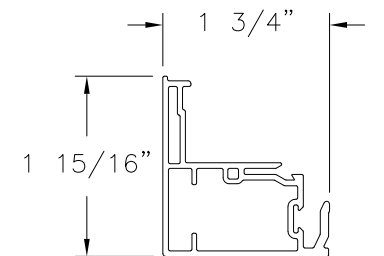
FIXED MEETING RAIL (VM-2359)
PVC



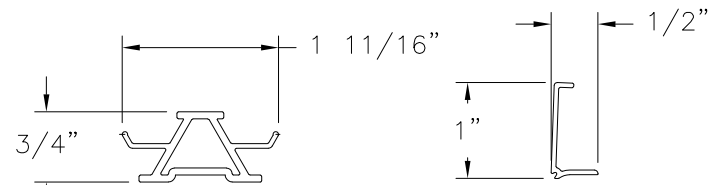
LIFT STILE (VM-2361)
PVC



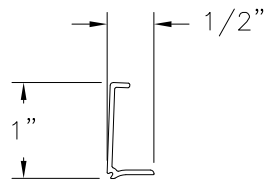
SASH HEAD (VM-2358)
PVC



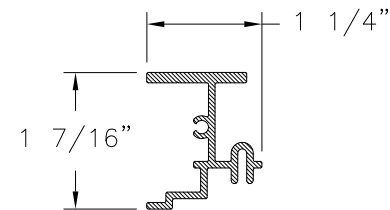
LOCK STILE (VM-2360)
PVC



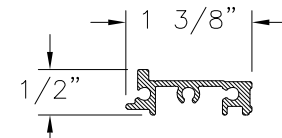
TRACK (VM-2372)
PVC



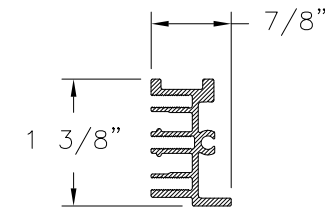
BEAD (VM-2365)
PVC



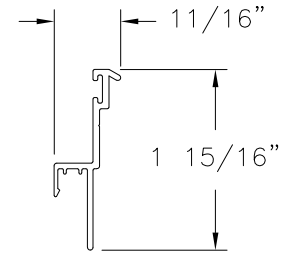
STILE REINFORCEMENT (T-11333)
ALUMINUM



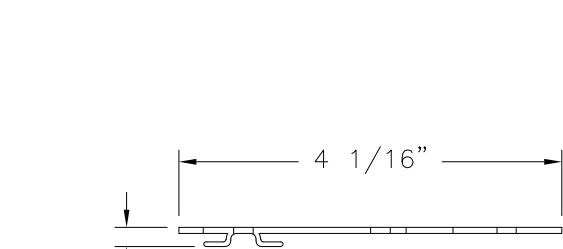
SASH REINFORCEMENT (T-11211)
ALUMINUM



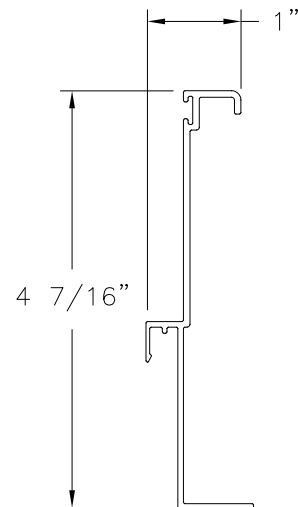
MEETING RAIL REINFORCEMENT (T-11222)
ALUMINUM



3/4" SILL RISER
ALUMINUM



INSTALLATION CLIP
GALVANIZED STEEL



2" SILL RISER
ALUMINUM

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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SHWINCO ARCHITECTURAL PRODUCTS, LLC
171 JET SERVICES WAY
DOTHAN, AL 36303

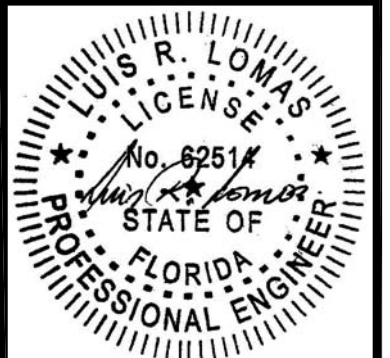
SERIES 9050 HS WINDOW XOx
IMPACT HVHZ
COMPONENTS

DRAWN: R.L.	DWG NO. 08-03158	REV A
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SCALE NTS	DATE 05/07/2020	SHEET 16 OF 16
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L. ROBERTO LOMAS P.E.
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SIGNED: 08/24/2023



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