

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

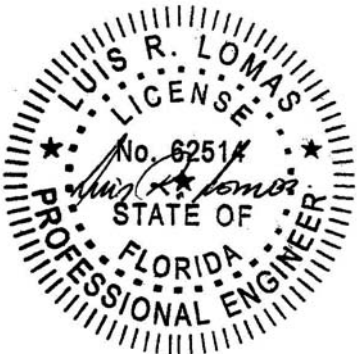
1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER 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. 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. MULLION MATERIAL: ALUMINUM 6063-T6.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #6 WOOD SCREWS OR ROOFING NAILS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING THROUGH FIN INTO METAL STRUCTURE USE #6 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.
16. 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.
17. 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" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. 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.
19. FOR ATTACHING REINFORCEMENT TO WINDOW UNITS USE #6 SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF 3 THREADS PAST THE WINDOW FRAME WALL. LOCATE SCREWS AS SHOWN IN INSTALLATION DETAILS.
20. ALL FASTENERS TO BE CORROSION RESISTANT.
21. 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 Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .048" THICK MINIMUM
22. FENESTRATION UNITS ATTACHED TO MULLION MUST HAVE THEIR OWN SEPARATE APPROVAL.
23. DESIGN PRESSURE OF MULLED UNITS SHALL BE CONTROLLED BY THE LESSER DESIGN PRESSURE OF THE ASSEMBLY COMPONENTS; THE MULLION OR THE INDIVIDUAL UNITS.
24. MULLION MAY BE USED WITH SINGLE HUNG, SLIDER OR FIXED UNITS WITHIN THE 1900 SERIES MANUFACTURED BY ALL AMERICAN WINDOWS AND IT MAY BE INSTALLED VERTICALLY OR HORIZONTALLY.

SIGNED: 10/01/2018

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ALL AMERICAN WINDOW COMPANY, LLC. 1930 HANAHAN ROAD SUITE 1400A NORTH CHARLESTON, SC 29406		
SERIES 1900-4 REINFORCED MULLION NOTES		
DRAWN: A.R.	DWG NO. 08-03254	REV -
SCALE NTS	DATE 05/08/18	SHEET 1 OF 5
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

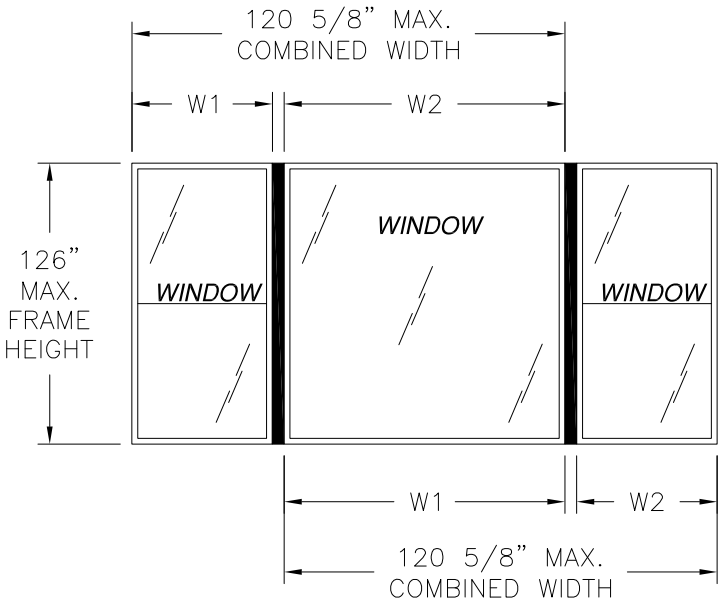
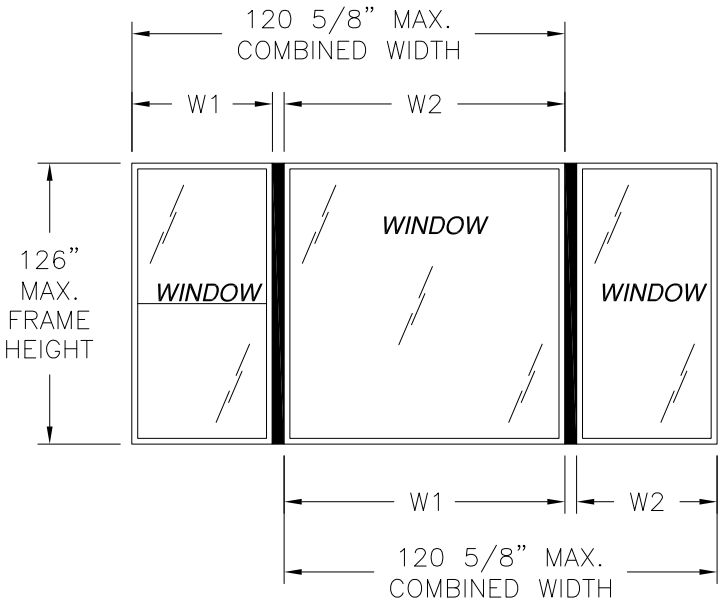
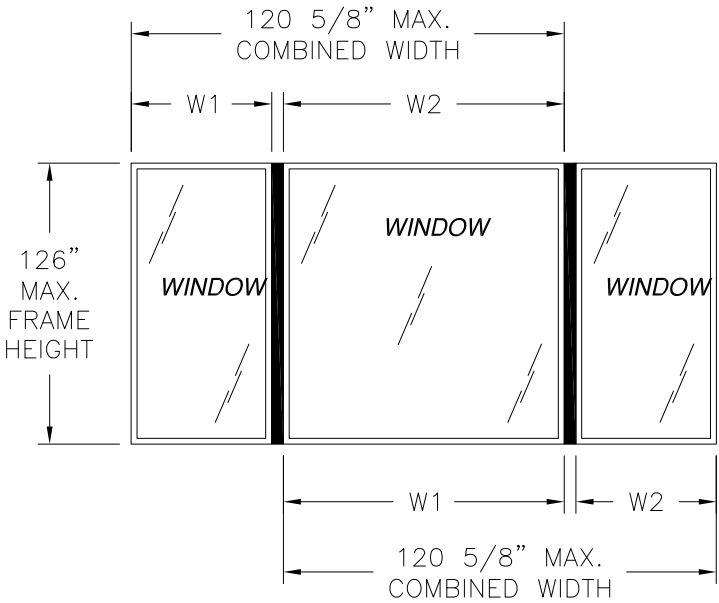
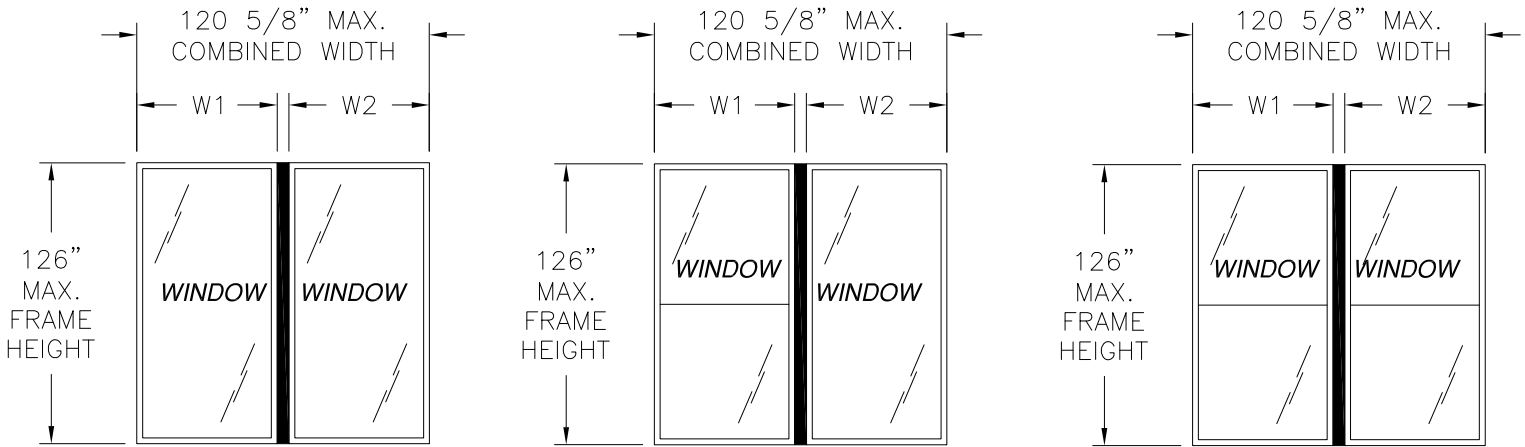


Luis R. Lomas P.E.
FL No.: 62514

Design pressure rating (psf)
positive and negative

Unit Height (in)	Tributary width (in)						
	24.00	30.00	36.00	42.00	48.50	54.00	60.00
30.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
36.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
42.00	120.0	120.0	120.0	120.0	120.0	120.0	120.0
48.50	120.0	120.0	112.3	106.7	104.8	104.8	104.8
54.00	120.0	105.4	95.1	88.9	85.4	84.5	84.5
60.00	107.0	91.3	81.5	75.3	71.1	69.2	68.5
66.00	95.1	80.6	71.3	65.2	60.9	58.5	57.0
72.00	85.6	72.1	63.1	55.9	50.6	47.4	45.1
78.00	76.3	62.2	53.0	46.7	42.0	39.1	36.8
84.00	64.9	52.9	45.1	39.7	35.5	32.8	30.7
90.00	52.6	42.7	36.3	31.9	28.5	26.4	24.6
96.00	43.2	35.0	29.7	26.0	23.1	21.3	19.8
102.00	35.9	29.1	24.6	21.5	19.0	17.5	16.2
108.00	30.2	24.4	20.6	18.0	-	-	-
114.00	25.6	20.7	17.4	-	-	-	-
120.00	21.9	17.7	-	-	-	-	-
126.00	18.9	-	-	-	-	-	-

Large and Missile Impact Rated Up to Wind Zone 3



APPROVED CONFIGURATIONS
SEE CHART #1 FOR RATINGS

- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

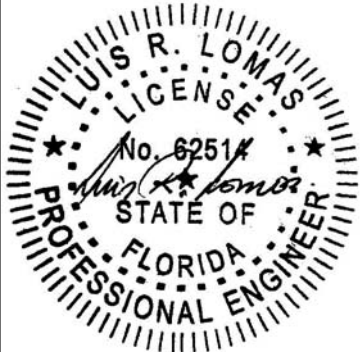
TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

ALL AMERICAN WINDOW COMPANY, LLC.
1930 HANAHAN ROAD SUITE 1400A
NORTH CHARLESTON, SC 29406

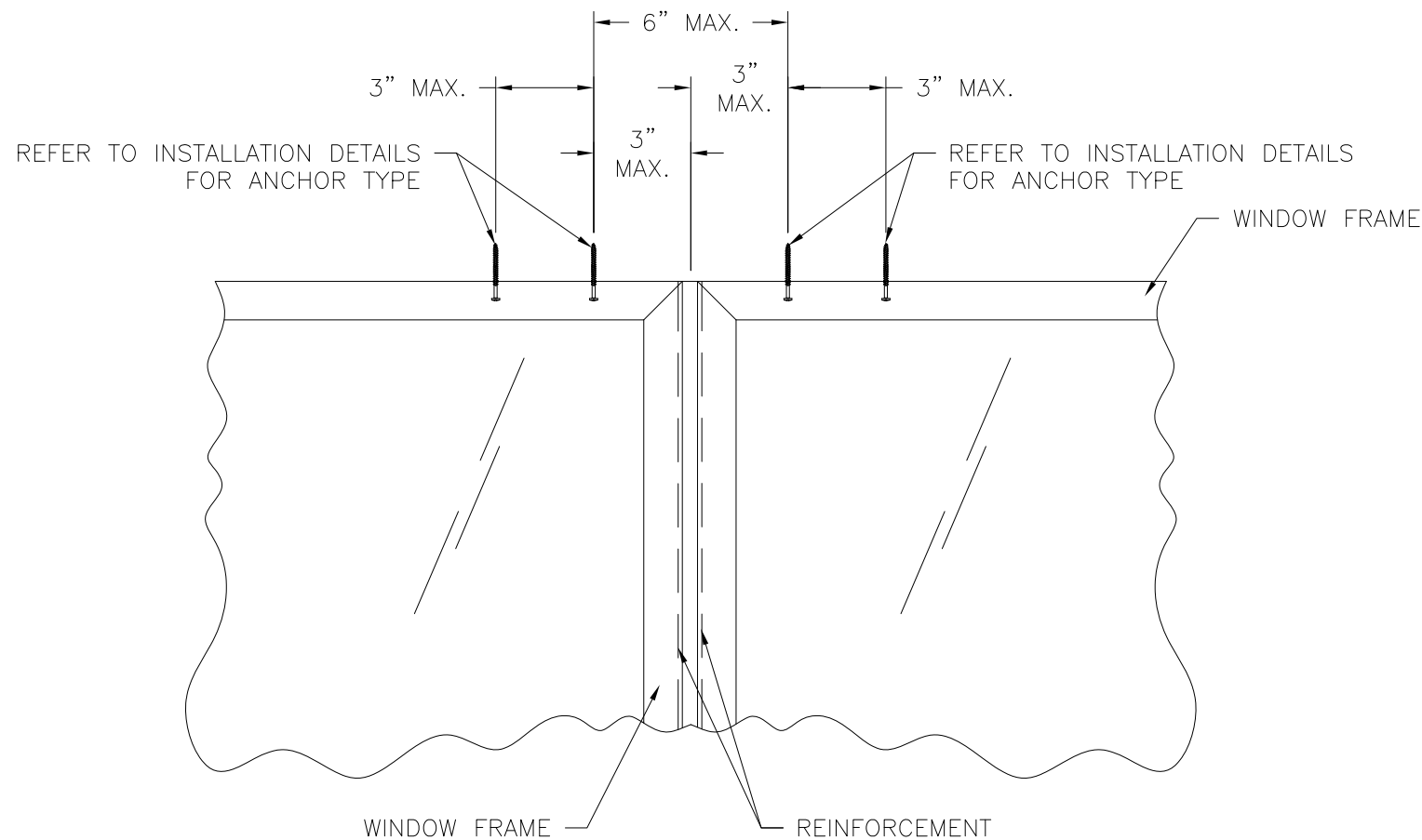
SERIES 1900-4 REINFORCED
MULLION
APPROVED CONFIGURATIONS & DP CHART

DRAWN: A.R.	DWG NO. 08-03254	REV -
SCALE NTS	DATE 05/08/18	SHEET 2 OF 5
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@lrlomaspe.com		

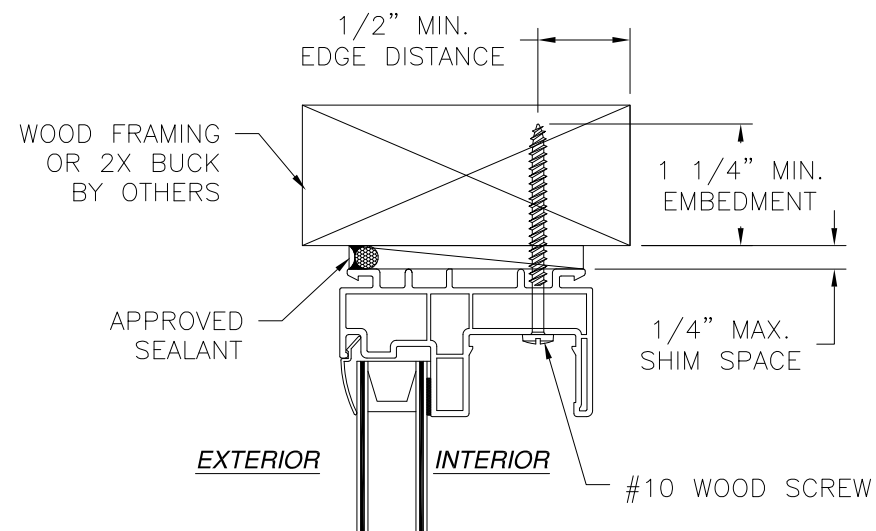
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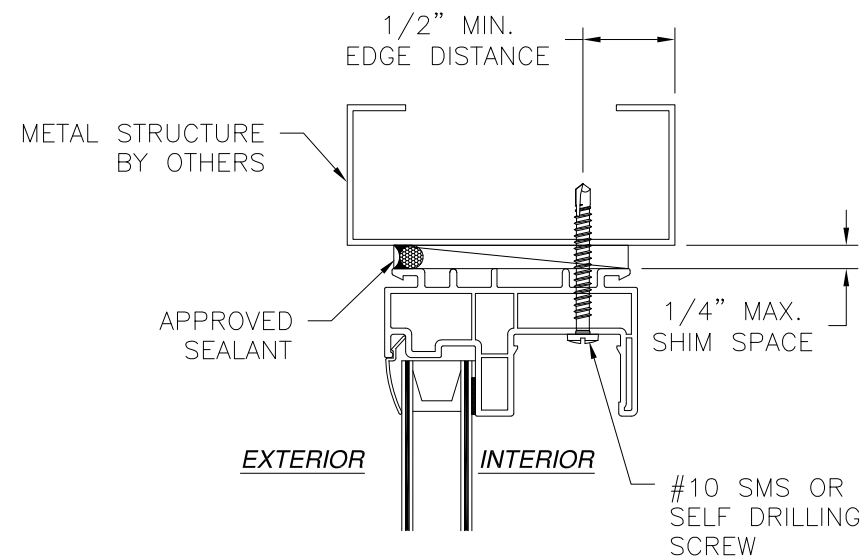
Luis R. Lomas P.E.
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HEAD INSTALLATION DETAIL
SILL SIMILAR

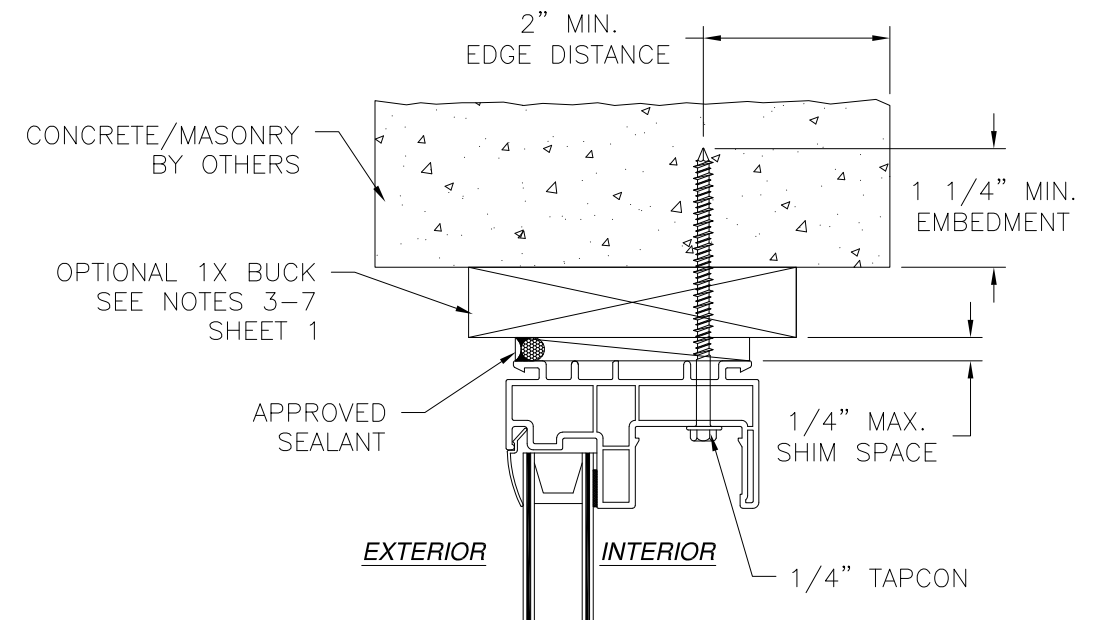


INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK



INSTALLATION DETAIL
METAL STRUCTURE

REVISIONS			
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INSTALLATION DETAIL
CONCRETE/MASONRY

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

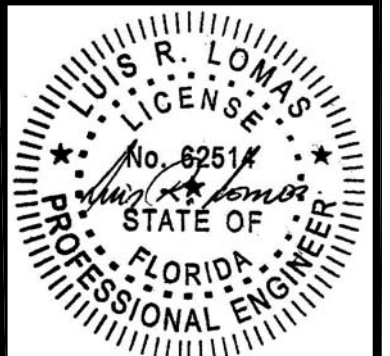
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NORTH CHARLESTON, SC 29406

SERIES 1900-4 REINFORCED
MULLION
FRAME INSTALLATION DETAILS

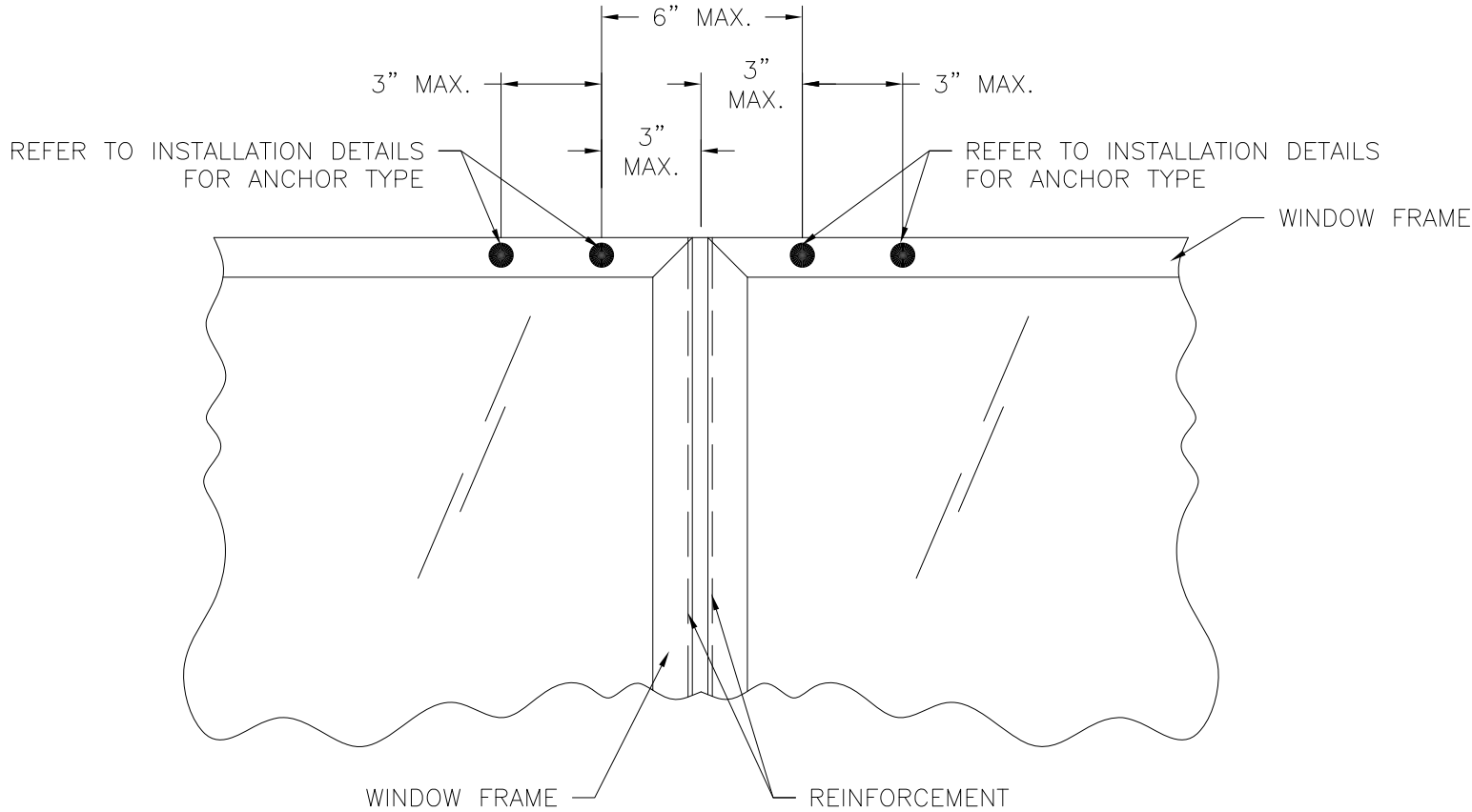
DRAWN: A.R.	DWG NO. 08-03254	REV -
SCALE NTS	DATE 05/08/18	SHEET 3 OF 5

L. ROBERTO LOMAS P.E.
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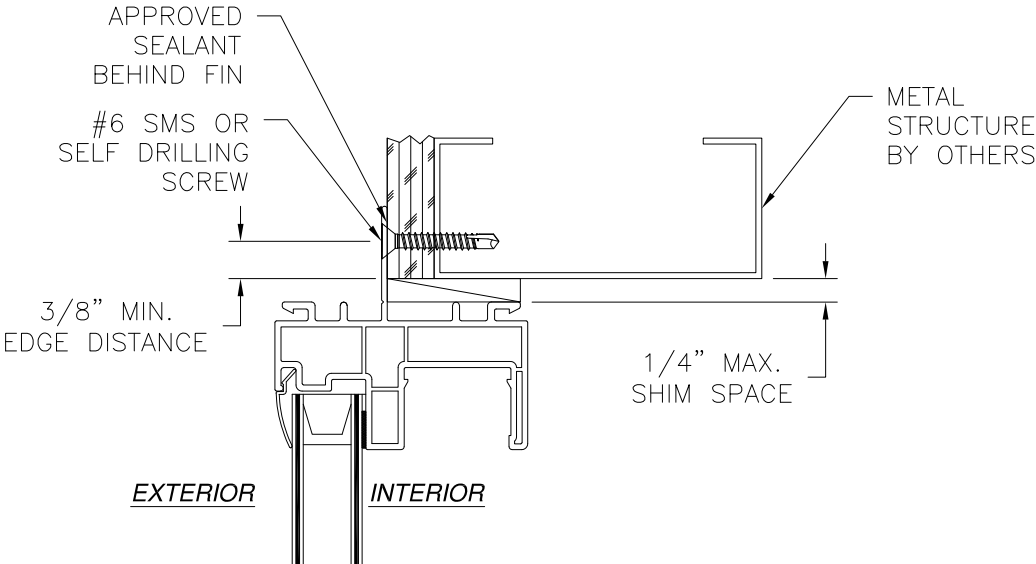


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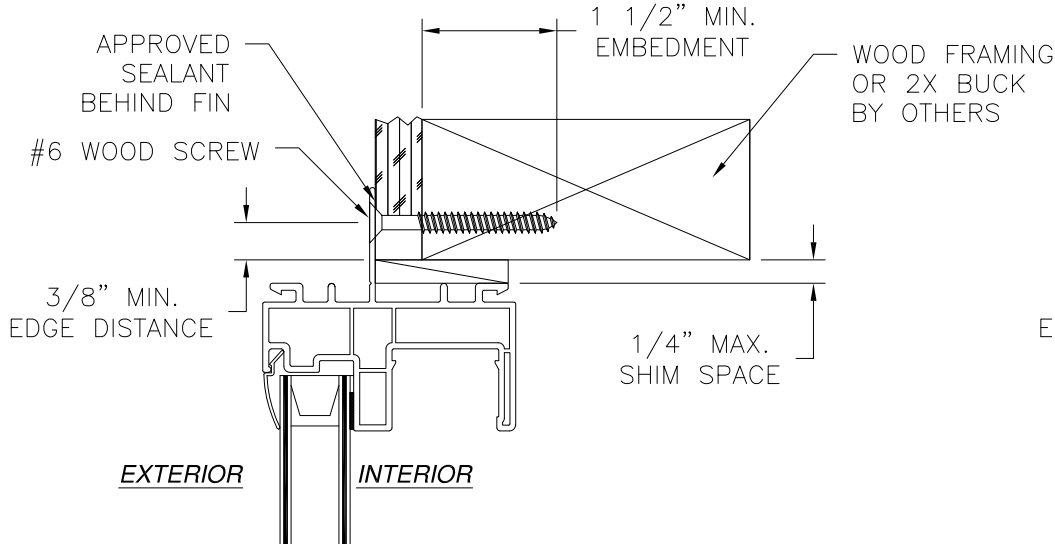
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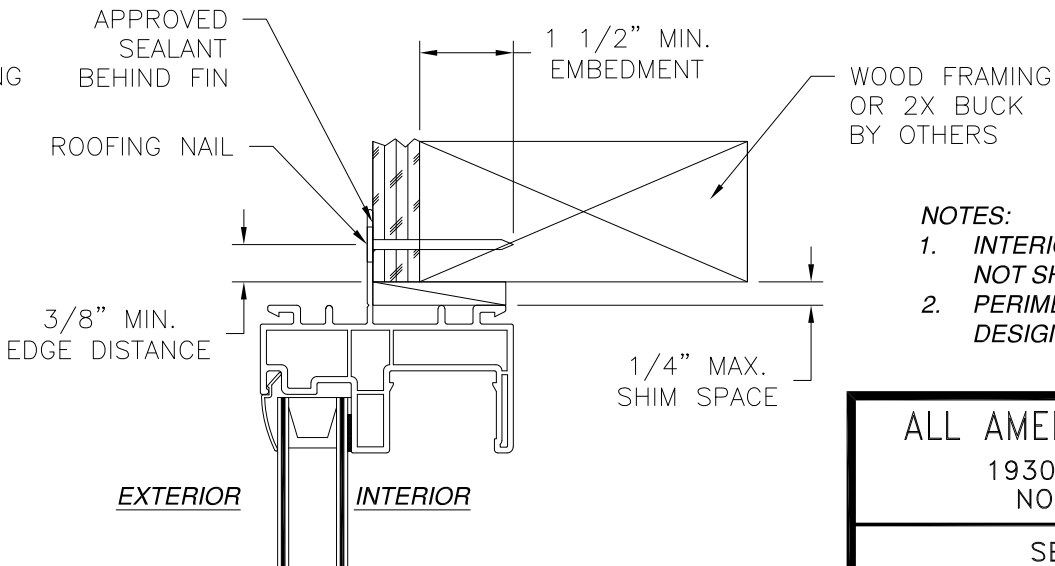
HEAD INSTALLATION DETAIL
SILL SIMILAR



INSTALLATION DETAIL
METAL STRUCTURE



INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK



INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK

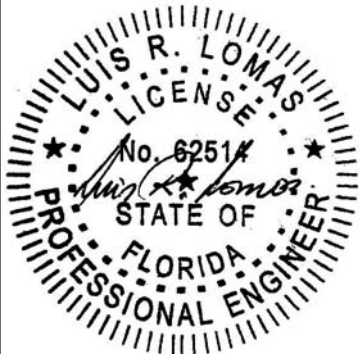
- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
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ALL AMERICAN WINDOW COMPANY, LLC.
1930 HANAHAN ROAD SUITE 1400A
NORTH CHARLESTON, SC 29406

SERIES 1900-4 REINFORCED
MULLION
FIN INSTALLATION DETAILS

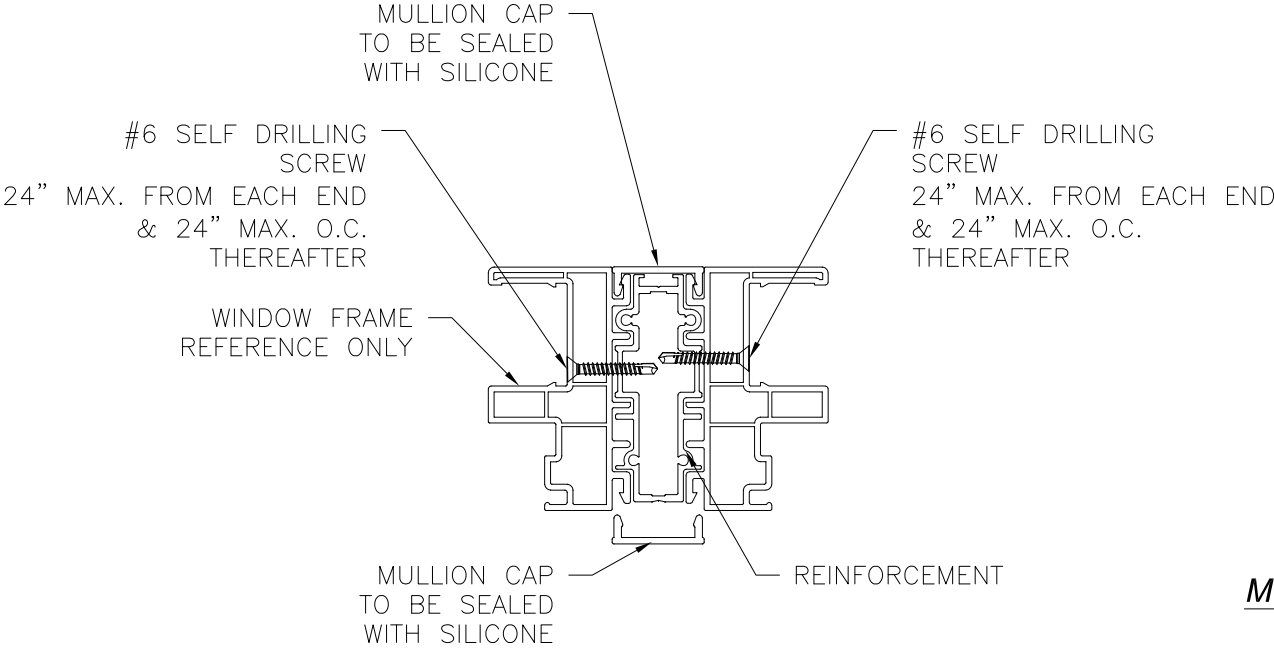
DRAWN: A.R. DWG NO. 08-03254 REV -
SCALE NTS DATE 05/08/18 SHEET 4 OF 5
L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 10/01/2018

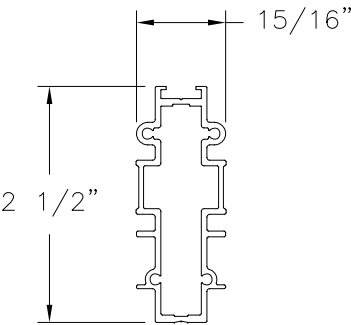


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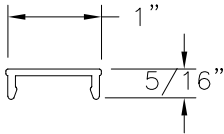
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WINDOW FRAME TO
REINFORCEMENT INSTALLATION



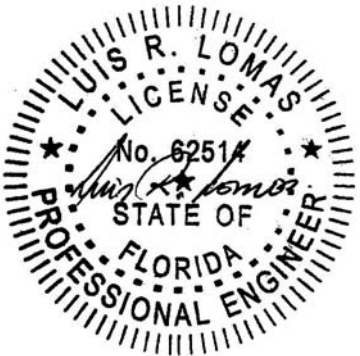
MULLION BAR REINFORCEMENT
ALUMINUM 6063-T6 (T-53137)



MULLION CAP
VINYL PVC (600226)

SIGNED: 10/01/2018

ALL AMERICAN WINDOW COMPANY, LLC. 1930 HANAHAN ROAD SUITE 1400A NORTH CHARLESTON, SC 29406		
SERIES 1900-4 REINFORCED MULLION COMPONENTS		
DRAWN: A.R.	DWG NO. 08-03254	REV -
SCALE NTS	DATE 05/08/18	SHEET 5 OF 5
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