

PLY GEM WINDOWS

PREMIUM MIRA SERIES CASEMENT OPERATING
SHAPE WINDOW (IMPACT)

NOTES:

1. THIS INSTALLATION HAS BEEN EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE OUTSIDE THE HVHZ, AND WHERE PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES DO NOT EXCEED THE DESIGN PRESSURE RATINGS HEREIN.
2. THIS PRODUCT IS MISSILE LEVEL D, WIND ZONE 3 IMPACT RESISTANT. WHEN USED IN WIND ZONE 3 OR BELOW AREAS, THIS PRODUCT DOES NOT REQUIRE THE USE OF APPROVED IMPACT PROTECTIVE DEVICES (SHUTTERS).
3. ANCHOR TYPE, SIZE, SPACING, EMBEDMENT, AND EDGE DISTANCE SHALL BE AS SPECIFIED IN THESE DRAWINGS. USE APPROPRIATE ANCHORAGE FROM TABLE I ACCORDING TO SUBSTRATE TYPE. A MINIMUM CENTER-TO-CENTER SPACING OF 3" SHALL BE MAINTAINED BETWEEN ALL INSTALLATION FASTENERS IN ANY DIRECTION.
4. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. FOR MASONRY OPENINGS WITH WOOD BUCKS LESS THAN 1-1/2" THICK, EMBEDMENT SHALL BE BEYOND WOOD BUCKS, IF USED, AND INTO MASONRY SUBSTRATE. WOOD BUCKS WITH MASONRY ARE OPTIONAL.
5. WOOD, METAL, OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED BY OTHERS TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE. ADEQUACY OF THE STRUCTURE TO RECEIVED THESE LOADS SHALL BE VERIFIED BY THE CONTRACTOR OR AUTHORITY HAVING JURISDICTION (AHJ).
6. IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AHJ TO SELECT PLY GEM PRODUCTS TO MEET ALL APPLICABLE LOCAL LAWS, BUILDING CODES, ORDINANCES, OR OTHER SAFETY REQUIREMENTS FOR EACH INSTALLATION.
7. SHIMS ARE REQUIRED WHERE GAPS OF GREATER THAN 1/16" EXIST BETWEEN OPENING AND FRAME. MAX. SHIM STACK IS 1/4". SHIMS SHALL BE LOAD-BEARING AND CAPABLE OF TRANSFERRING LOADS TO THE SUBSTRATE.
8. SEALING AND FLASHING STRATEGIES FOR OVERALL WATER INFILTRATION RESISTANCE OF THE INSTALLED PRODUCT SHALL BE THE RESPONSIBILITY OF OTHERS USING ASTM E 2112 AND IS NOT ADDRESSED BY THIS DOCUMENT.
9. INSTALLED GLAZING SHALL COMPLY WITH ASTM E 1300.
10. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. ANY DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH CODE REQUIREMENTS.
11. A WIND LOAD DURATION FACTOR Cd = 1.6 WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. PRODUCTS SHALL BE CONSTRUCTED AS SPECIFIED IN TEST REPORTS NATIONAL CERTIFIED TESTING LABORATORIES I10-I4372-I, I10-I4371-I & I10-I4370-I.
13. DESIGNATION "X" IS FOR OPERABLE PANEL AND "O" IS FOR FIXED PANEL.
14. USE A BACKER ROD ON ALL JOINTS >3/4" DEEP AND/OR WIDER THAN 1/4". FINISHED CAULK JOINT SHOULD BE A MINIMUM OF 3/8" DEEP.

SIZE & CONFIGURATION	DESIGN PRESSURE	MISSILE IMPACT RATING
36" X 84 1/4"	+50/-50 PSF	LARGE & SMALL MISSILE IMPACT RATED
28 3/16" X 77 5/8"	+50/-57 PSF	LARGE & SMALL MISSILE IMPACT RATED
36" X 90"	+50/-50 PSF	LARGE & SMALL MISSILE IMPACT RATED

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	GENERAL & INSTALLATION NOTES
2	SHAPED ELEVATIONS & ANCHOR LAYOUT
3	CROSS SECTIONS & GLAZING DETAIL

Lucas Turner
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TABLE I: INSTALLATION FASTENERS TABLE

ID	SUBSTRATE TYPE	ANCHOR TYPE	MIN. EMBED.	MIN. EDGE DISTANCE
A	2X MIN. SOUTHERN PINE WOOD (G=0.55)	8D COMMON NAIL (0.131" MIN.) OR 0.120" MIN. ROOFING NAIL	2"	7/16"
B	2X MIN. SPRUCE-PINE-FIR WOOD (G=0.42)	#8 WOOD SCREW	1-1/2"	7/16"
C	16 GAUGE (0.060") STEEL 36 KSI MIN. YIELD, OR 1/8" ALUM. 6063-T5 MIN.	#10-16 SELF-DRILLING SCREW (TEKS/DRIL-FLEX/KWIK-FLEX)	FULL, PLUS 3 THREADS MIN.	7/16"

NOTE: ALL SCREWS SHALL HAVE MOD. TRUSS, PAN, OR HEX WASHER HEAD, 0.42" MIN. HEAD OR WASHER DIAMETER. ALL NAILS SHALL HAVE FULL ROUND HEAD (OR USE CAPS/WASHERS), 0.42" MIN. HEAD OR WASHER DIAMETER.

Ply Gem®

WINDOWS & DOORS

Part of the Cornerstone Building Brands Family

433 N. MAIN ST.,
PO BOX 559,
ROCKY MOUNT, VA 24151
PH: 540-484-6348
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TITLE: PREMIUM MIRA SERIES CASEMENT WINDOW GENERAL & INSTALLATION NOTES	DATE	BY	REVISION DESCRIPTION	DATE
	02.21.12	SM		08.21.14
	DWN BY: GRN	LMH		04.26.18
	CHK BY: .	LMH		12.02.20
	SCALE: NTS	LMH		12.04.23

LUCAS TURNER

LICENSE

No. 58201

STATE OF FLORIDA

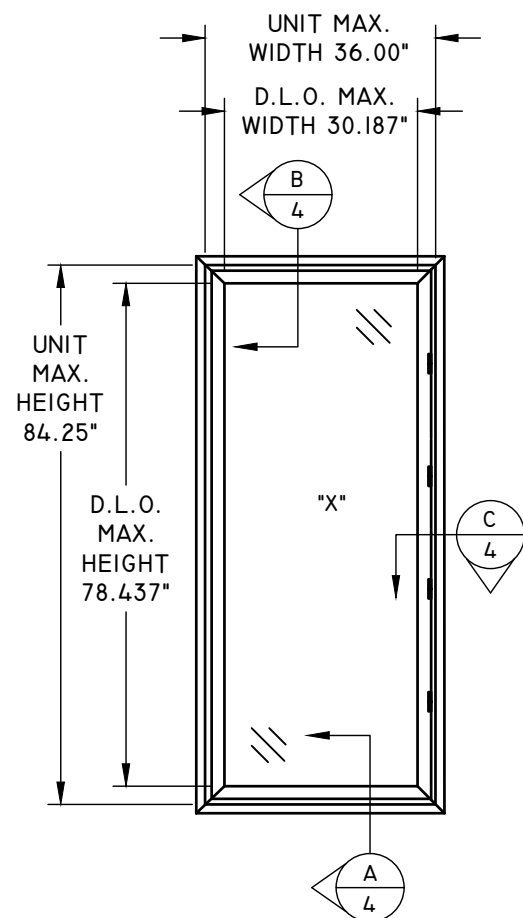
PROFESSIONAL ENGINEER

12/04/2023
LUCAS A. TURNER, P.E.
FL PE # 58201
TURNER ENGINEERING &
CONSULTING, INC.
(COA # 29779)
2428 OLD NATCHEZ TRACE
TRAIL, CAMDEN, TN 38320
PH. 941-380-1574

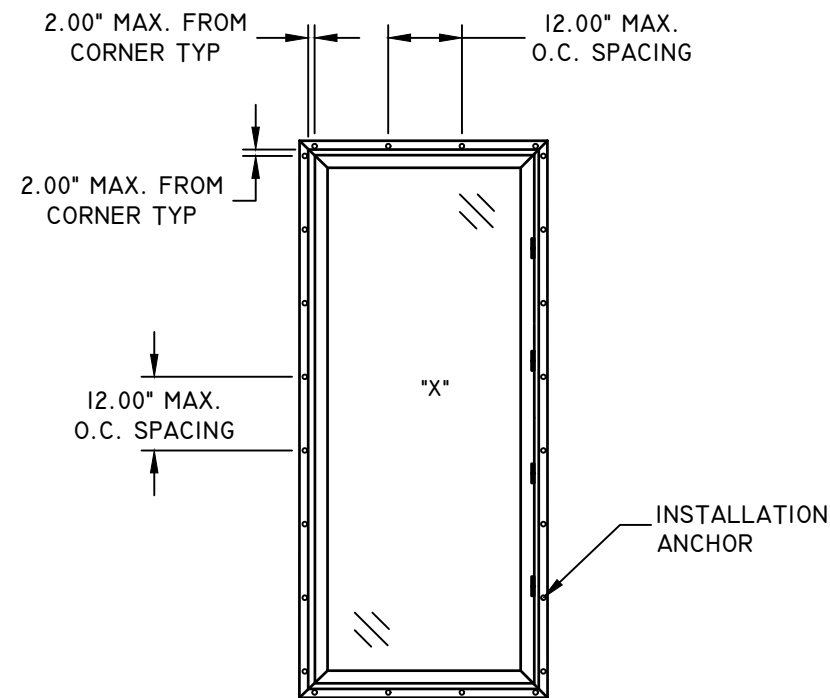
FL#: 15537

DWG #: PGWI51

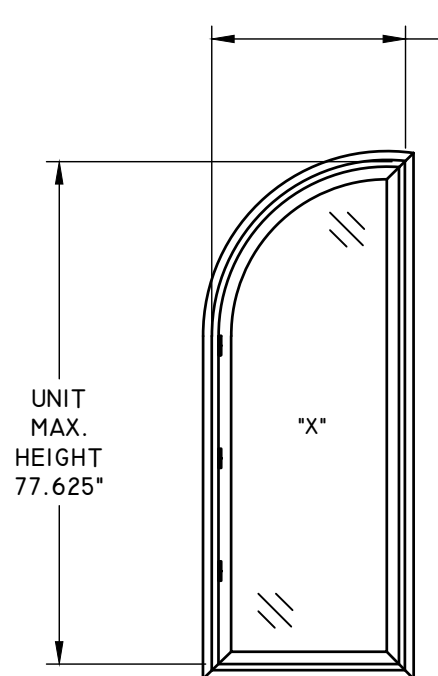
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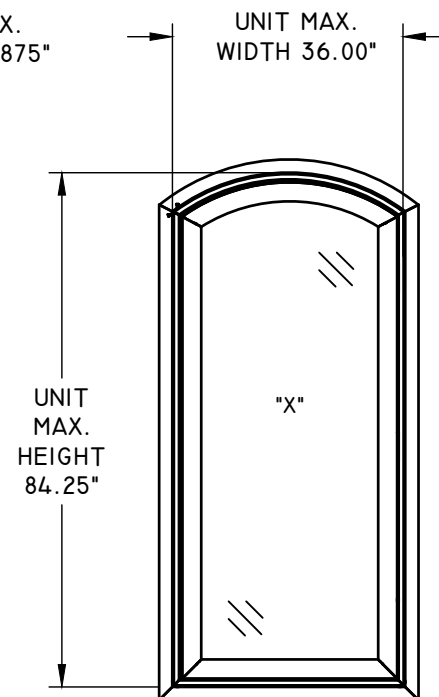
ELEVATION
EXTERIOR VIEW



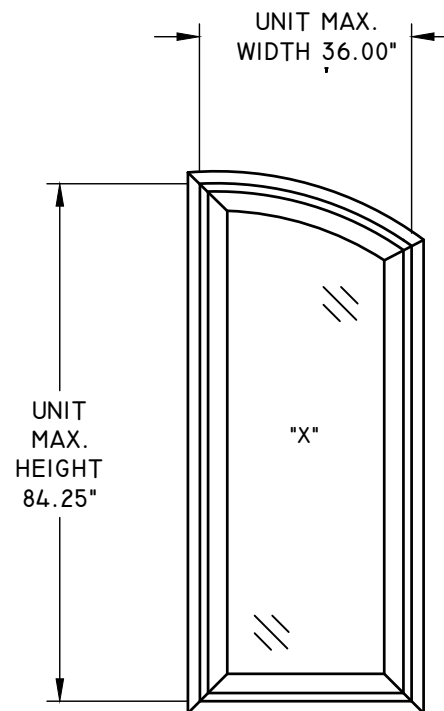
ANCHOR LAYOUT
FIN



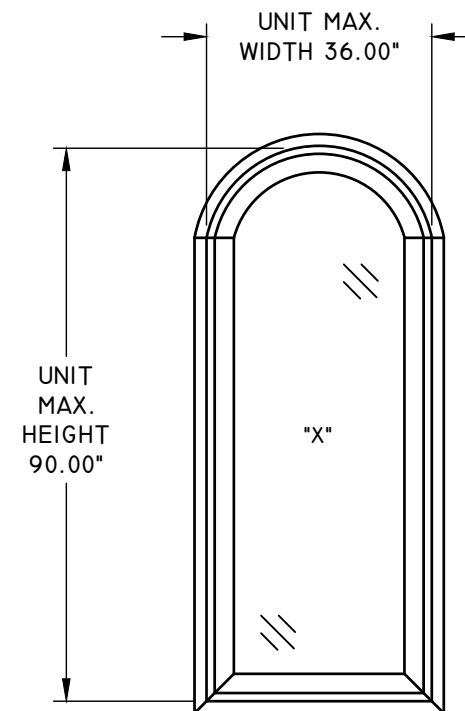
ELEVATION
QUARTER CIRCLE
+50/-57 PSF



ELEVATION
ARCH
+50/-50 PSF

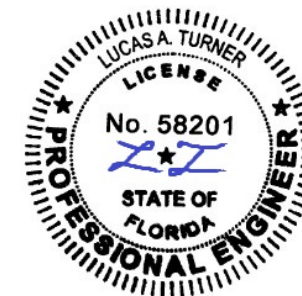


ELEVATION
UNEVEN LEG ARCH
+50/-50 PSF



ELEVATION
TRUE RADIUS
+50/-50 PSF

TITLE:	PREMIUM MIRA SERIES CASEMENT WINDOW SHAPE ELEVATION & ANCHOR LAYOUTS				NO.	REVISION DESCRIPTION	BY	DATE
DATE:	02.21.12	DWN BY:	GRN	CHK BY:	A	5TH EDITION FBC UPDATE	SM	08.21.14
					B	ADDED NOTES & TABLE I	LMH	04.26.18
					C	7TH EDITION 2020 FBC	LMH	12.02.20
					D	8TH EDITION 2023 FBC	LMH	12.04.23
				SCALE:				NTS

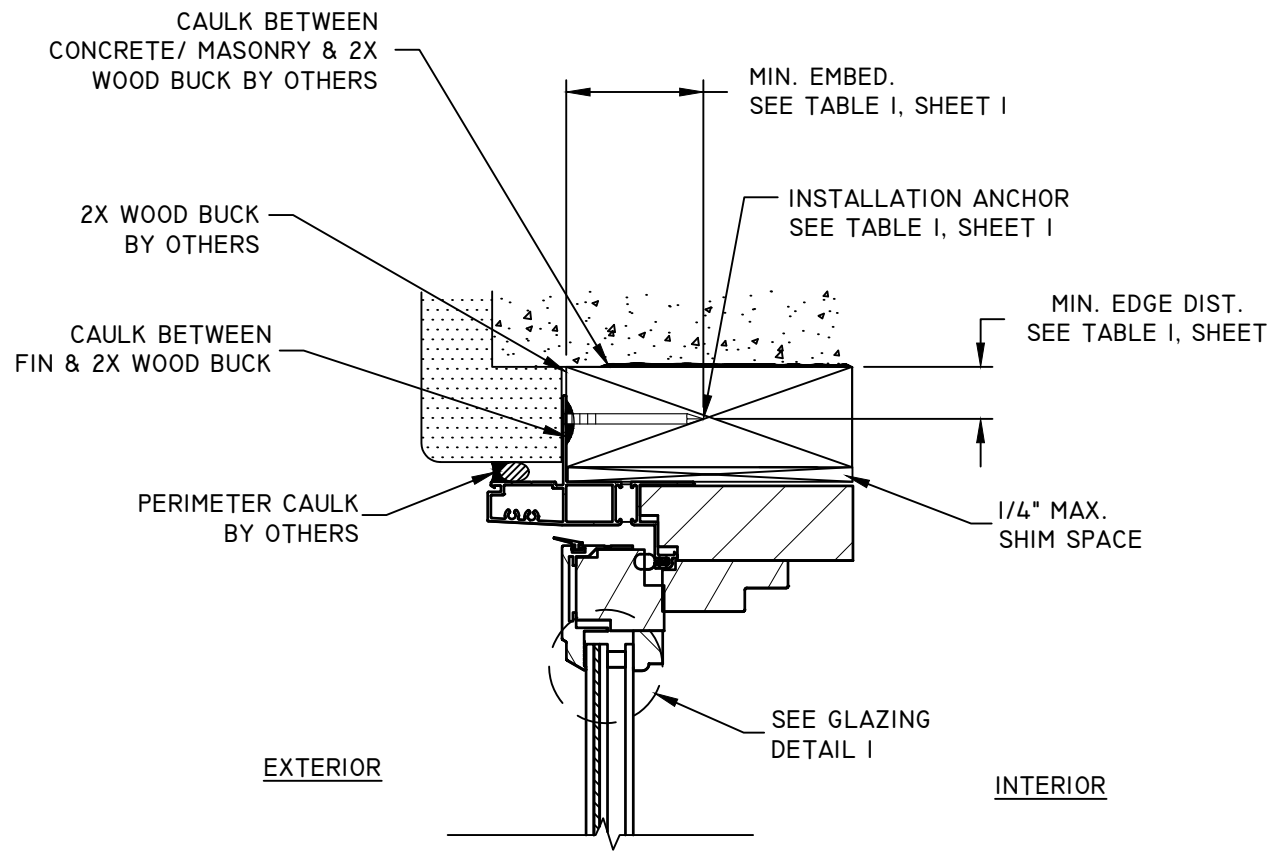


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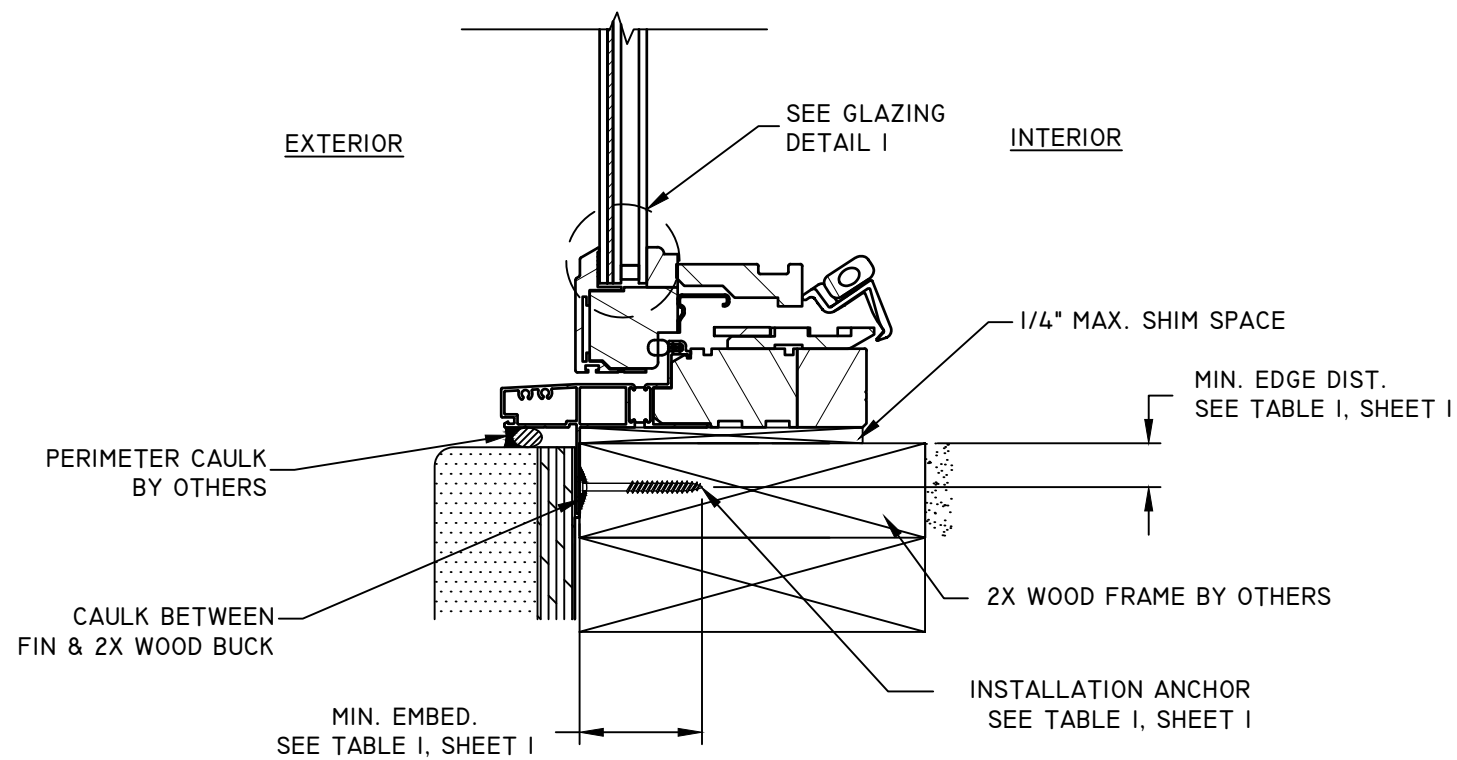
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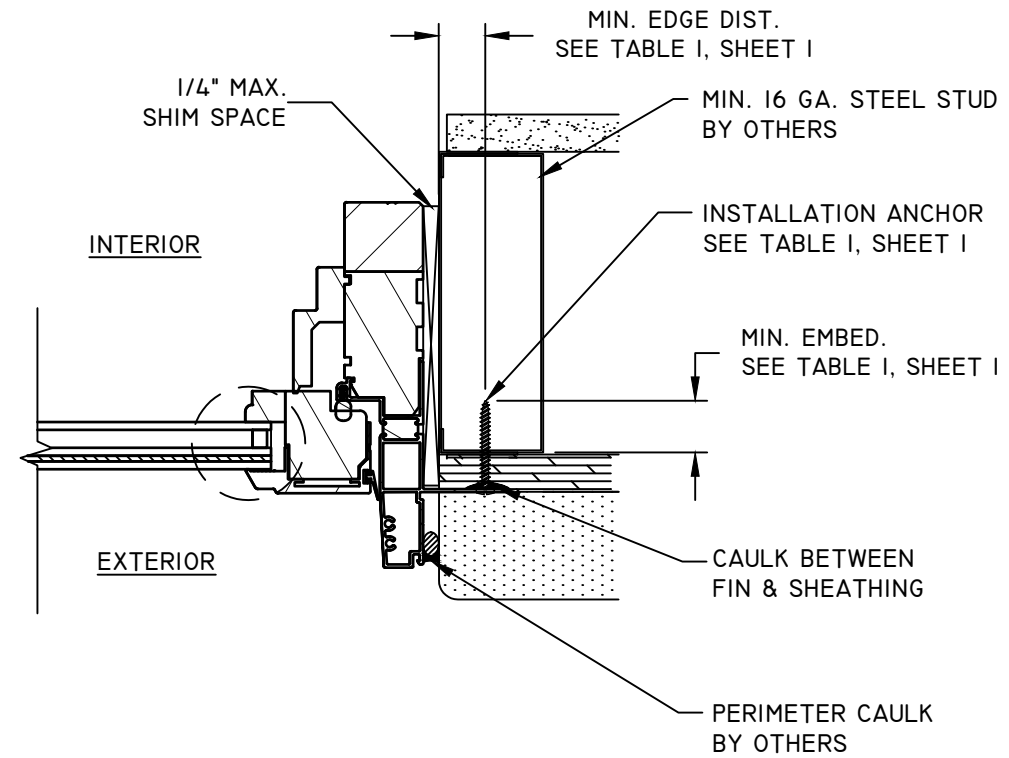
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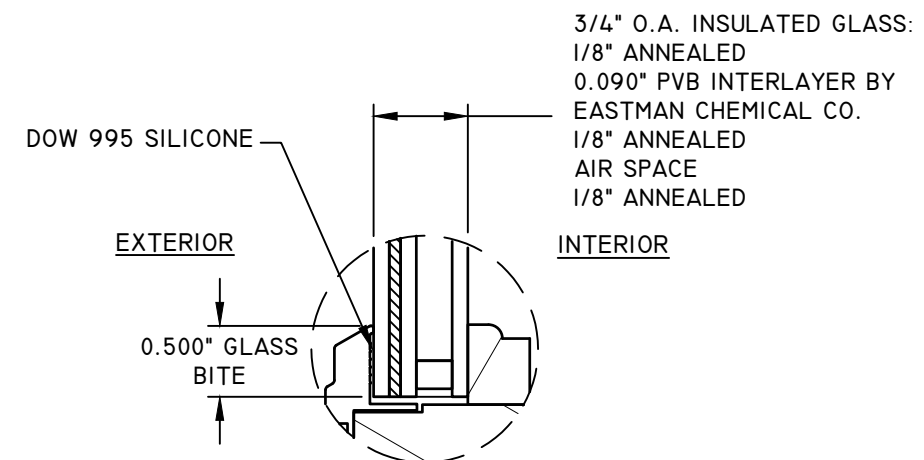
B
4 **VERTICAL SECTION**
HEAD - 2X WOOD BUCK
NAIL FIN



A
4 **VERTICAL SECTION**
SILL - 2X WOOD FRAME
NAIL FIN



C
4 **HORIZONTAL SECTION**
JAMB - STEEL STUD FRAME
NAIL FIN



GLAZING DETAIL 1

TITLE: PREMIUM MIRA SERIES CASEMENT WINDOW CROSS SECTIONS & GLAZING DETAIL	DATE	BY	REVISION DESCRIPTION	NO.
	02.21.12	DWN BY: GRN	5TH EDITION FBC UPDATE	A
		CHK BY:	ADDED NOTES & TABLE I	B
		SCALE:	7TH EDITION 2020 FBC	C
		NTS	8TH EDITION 2023 FBC	D



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SHEET: **3 OF 3**