

PLY GEM WINDOWS

PREMIUM MIRA PALLADIUM MULLION

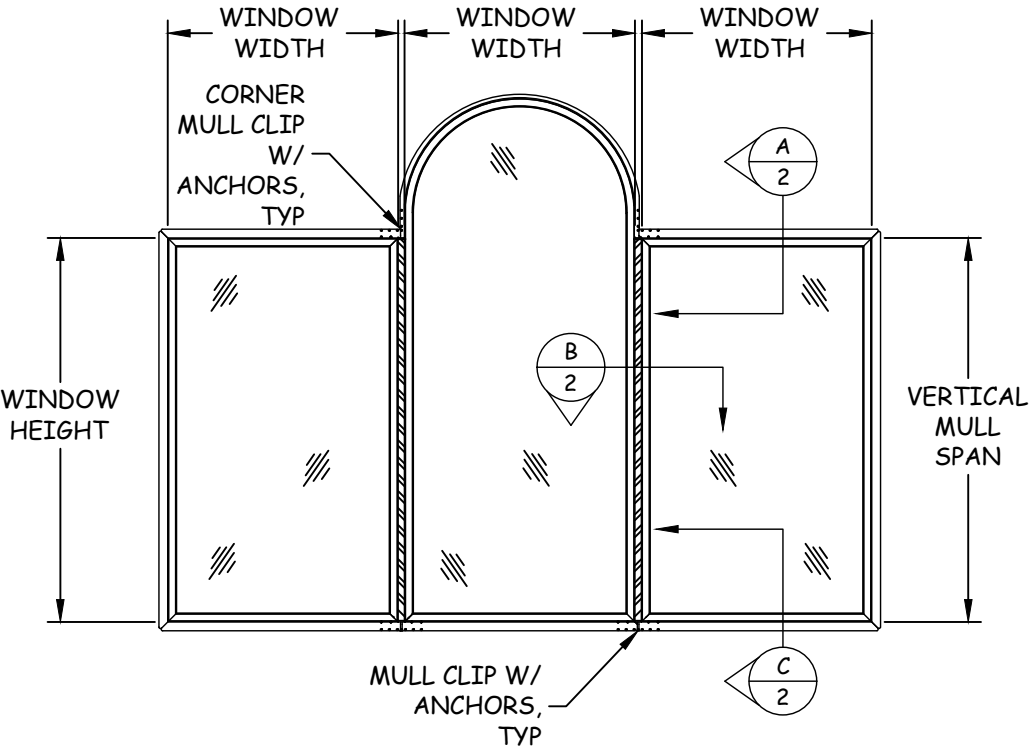
NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE.
2. MULLION INSTALLATION DETAILS APPLY TO PLY GEM PREMIUM MIRA ALUMINUM EXTRUDED MULL WITH STEEL ANCHOR CLIP AND ALUMINUM REINFORCEMENT KEY WHEN USED TO MULL WINDOWS WITH A VERTICALLY CONTINUOUS MULLION.
3. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS ZONE 3 OR LESS. INDIVIDUAL UNITS MUST BE IMPACT RATED.
4. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGION ZONE 4.
5. USE #8 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT OF 1 1/2" INTO WOOD FRAMING. (SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
6. USE #8 TEK SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL STRUCTURE. (SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE AND ANCHOR NOTES).
7. 2X4 WOOD BUCKS TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE AND IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
8. SEE CHARTS & NOTES ON SHEET 4 FOR DESIGN PRESSURE.
9. THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE PLY GEM PREMIUM MIRA PRODUCTS.
10. ALL WINDOWS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL.
11. MULLION MATERIAL: 6063-T6 ALUMINUM.
12. CLIP MATERIAL: 16 GA CORROSION-RESISTANT STEEL
13. REINFORCEMENT KEY MATERIAL: 6063-T6 ALUMINUM.
14. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

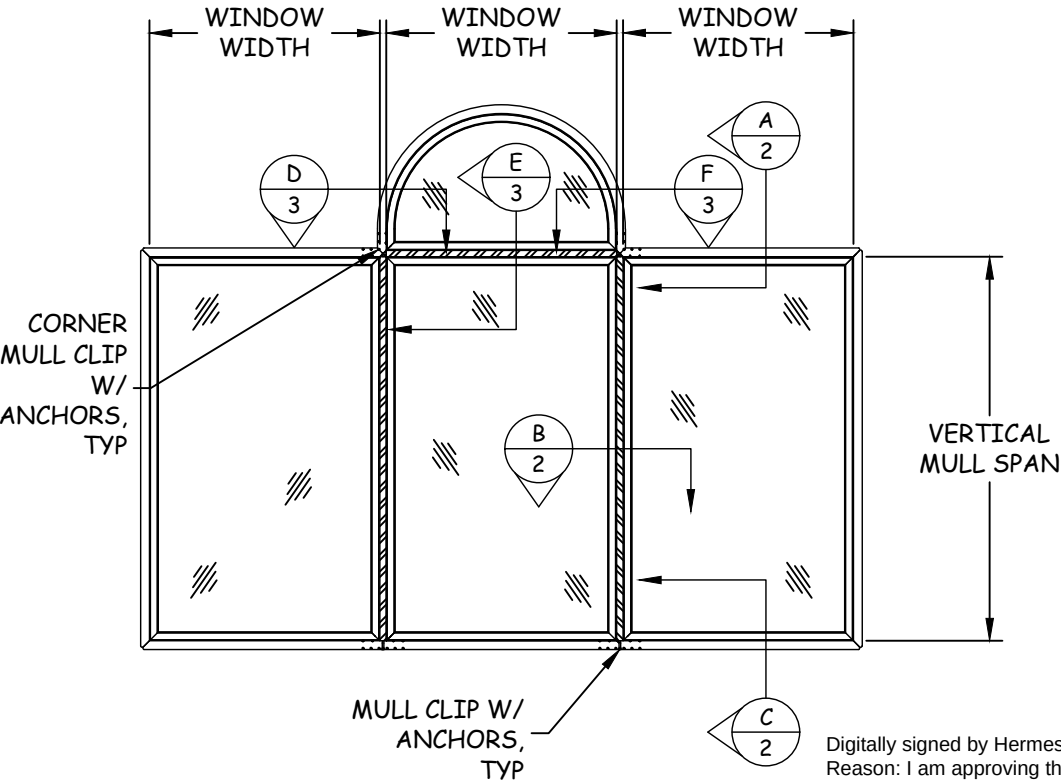
A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.

B. STEEL - MINIMUM YIELD STRENGTH OF 33 KSI. MINIMUM 18 GA. WALL THICKNESS.

TABLE OF CONTENTS	
SHEET	SHEET DESCRIPTION
1	MULLION ASSEMBLY ELEVATIONS & NOTES
2	MULLION VERTICAL SECTION DETAILS, AND ANCHORING
3	MULLION HORIZONTAL SECTION DETAILS, AND ANCHORING
4	MULLION DESIGN PRESSURE CHARTS



VERTICAL MULLION FOR SIDE-BY-SIDE
WINDOWS



Digitally signed by Hermes F. Norero, P.E.
Reason: I am approving this document
Date: 2017.09.28 12:39:12 -04'00'

VERTICAL MULLION FOR SIDE-BY-SIDE WINDOWS W/
HORIZONTAL MULLION FOR TOP TRANSOM

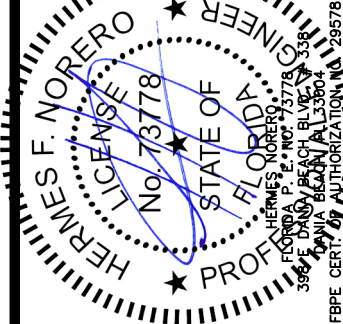


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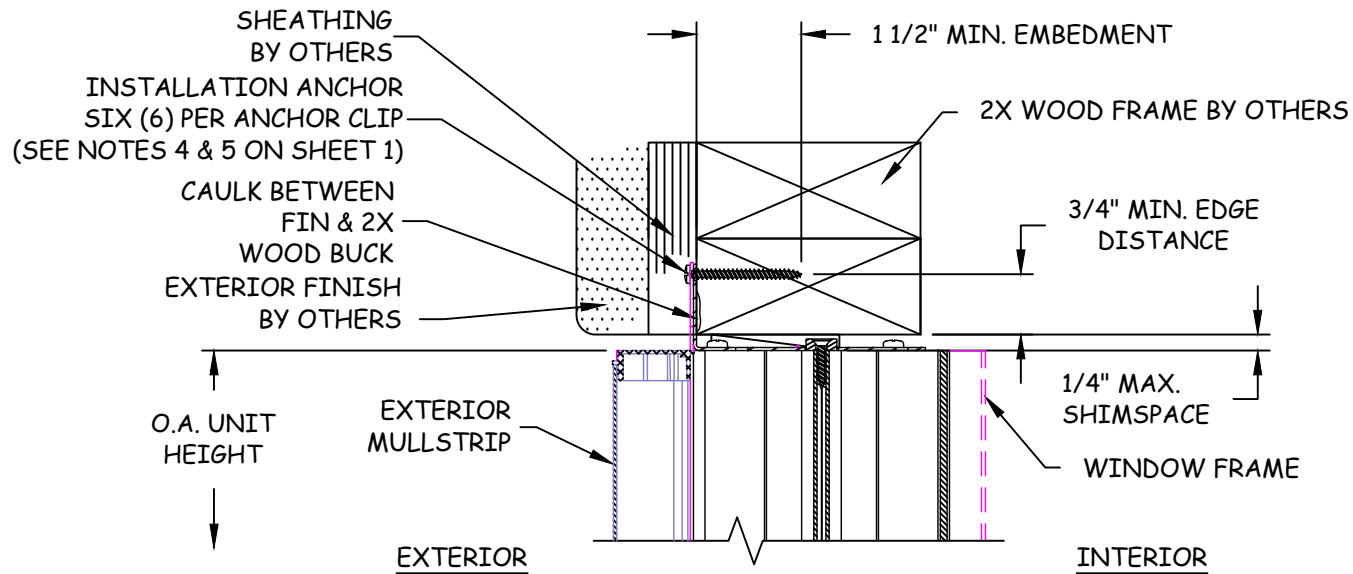
TITLE: PREMIUM MIRA PALLADIUM MULLION	MULLION ASSEMBLY ELEVATIONS & NOTES
PREPARED BY:	BUILDING DROPS, INC. 398 E DANIA BEACH BLVD., # 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		NO.	DESCRIPTION	BY	DATE
		A	FBC 5TH EDITION UPDATE	SM	08.20.14
		B	UPDATED NOTE 7, SHEET 4	LWH	09.20.17



DATE: 02.13.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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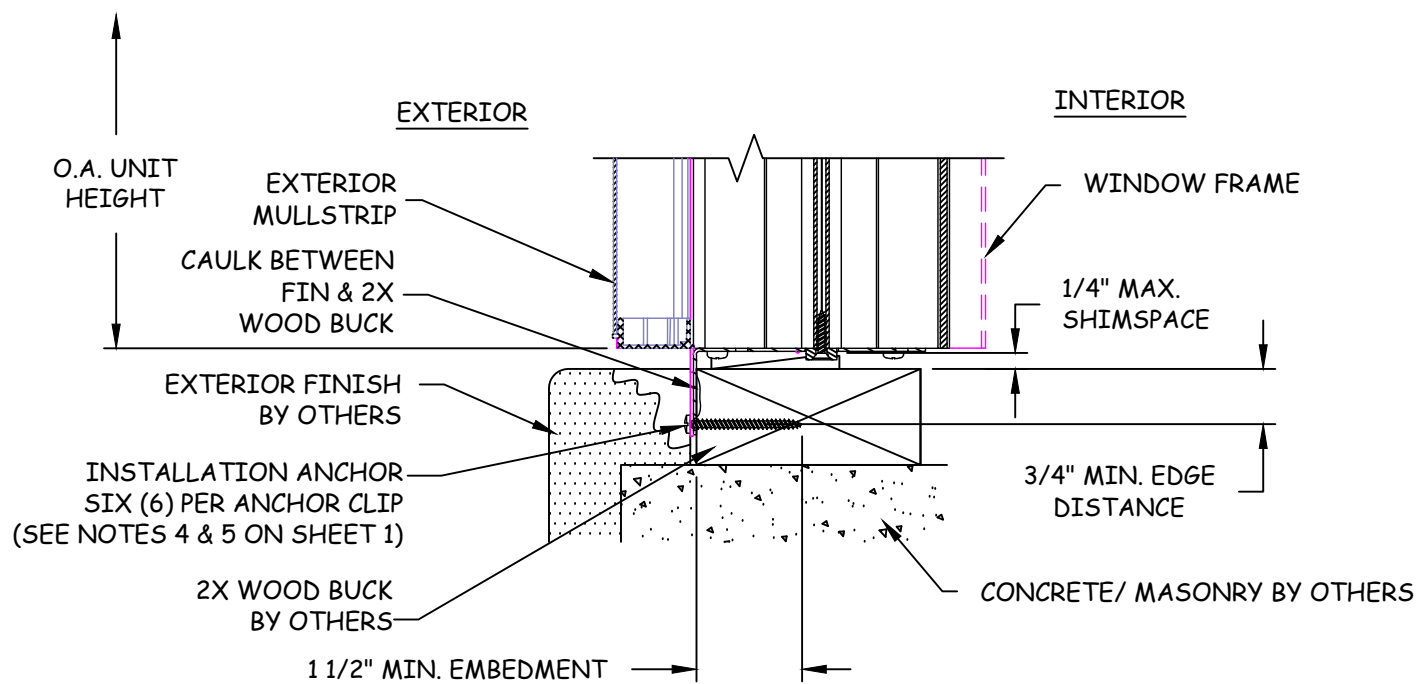
DWG #:	PGW096
SHEET:	1 OF 4



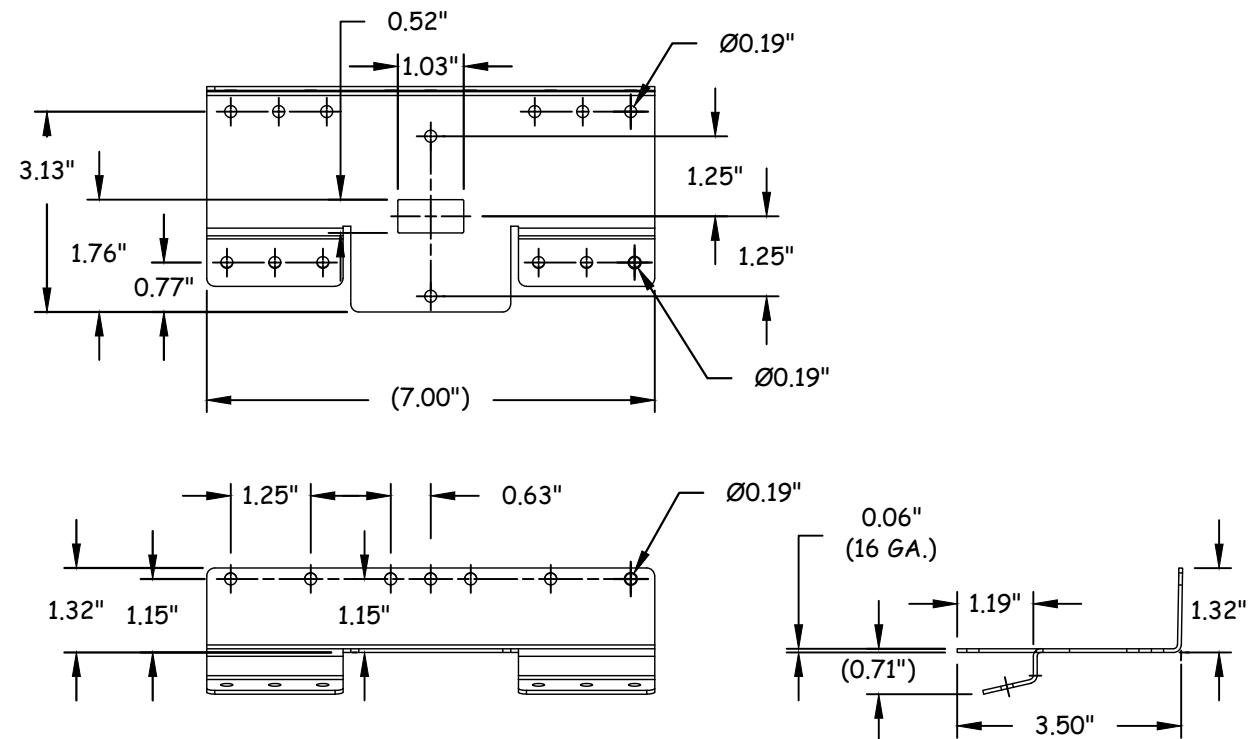
A
2 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME
MULL ANCHOR CLIP



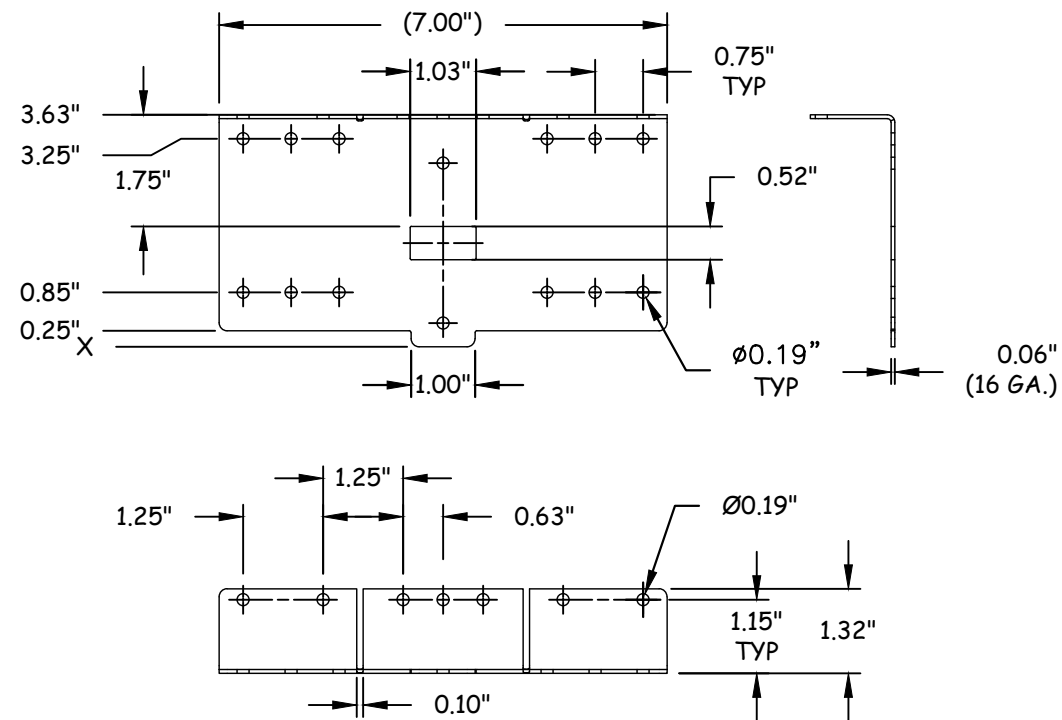
B
2 **VERTICAL MULL**
PREMIUM MIRA MULL
Heavy: Die # 11419, Light: Die # 11421



C
2 **VERTICAL SECTION**
SILL - 2X WOOD BUCK
MULL ANCHOR CLIP



DOUBLE HUNG MULL CLIP
(253796)



STANDARD MULL CLIP
(253797)



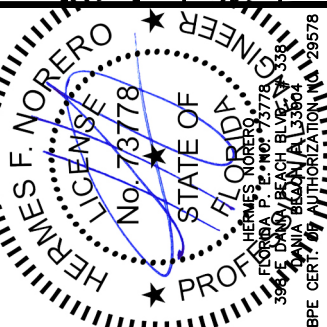
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PH: 540-484-6348 FX: 540-484-6683

TITLE: PREMIUM MIRA PALLADIUM
MULLION
MULLION VERTICAL SECTIONS,
DETAILS & ANCHORING
PREPARED BY:
BUILDING DROPS, INC.
398 E DANIA BEACH BLVD., # 338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

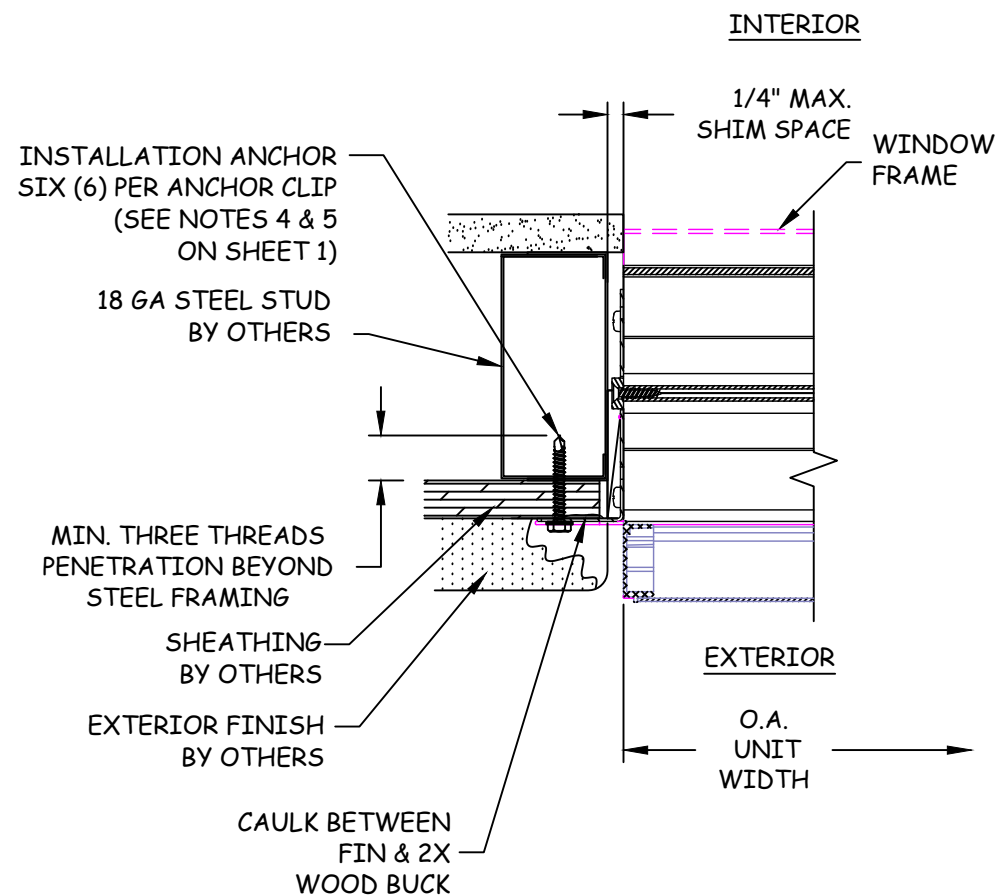
REVISIONS

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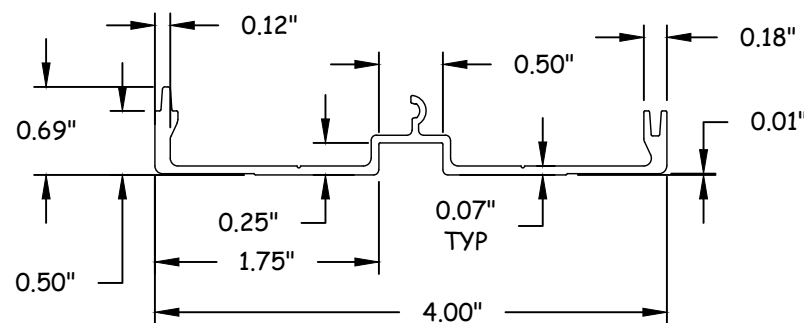


DATE:	02.13.12	DWN BY:	GRN	CHK BY:	HFN	SCALE:	NTS
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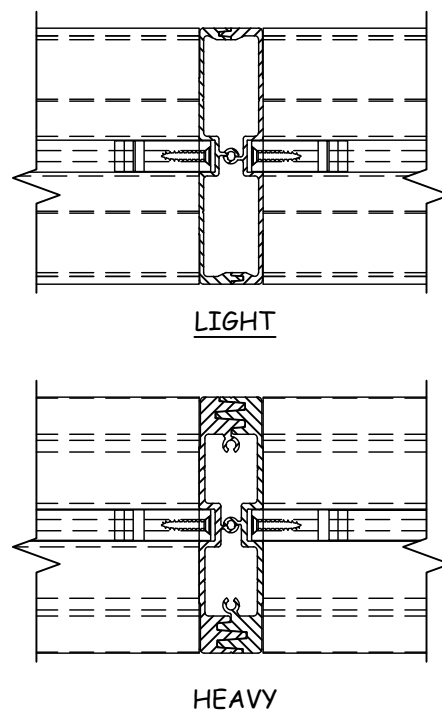
DWG #:
PGW096
SHEET: **2 OF 4**



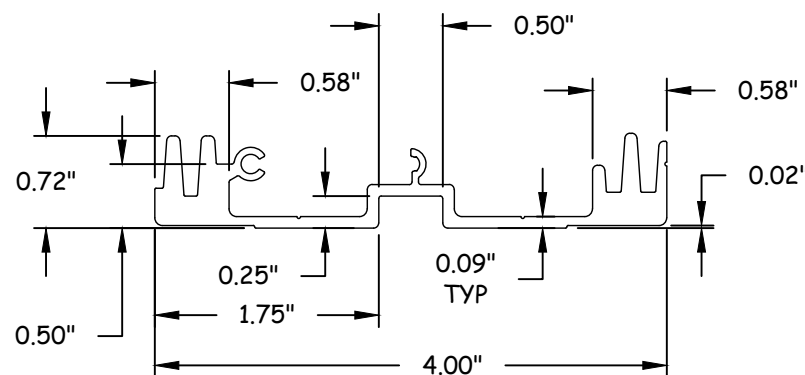
**D
3** **HORIZONTAL SECTION**
JAMB - STEEL STUD
MULL ANCHOR CLIP



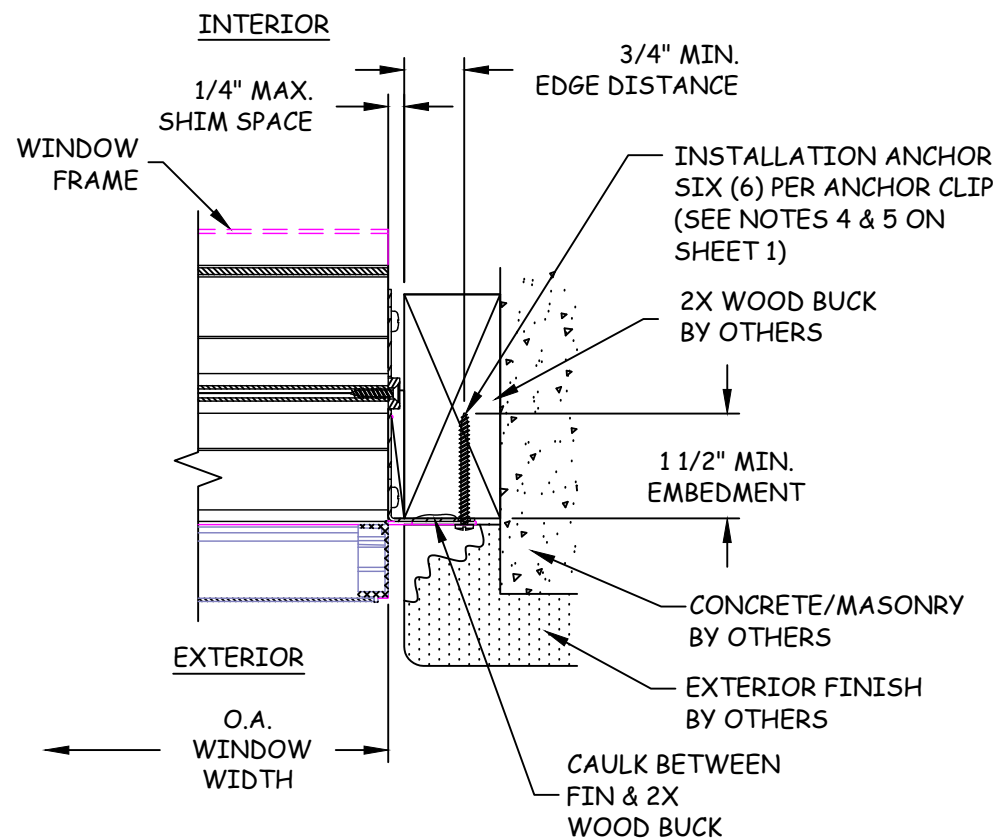
LIGHT REINFORCEMENT
(253804)



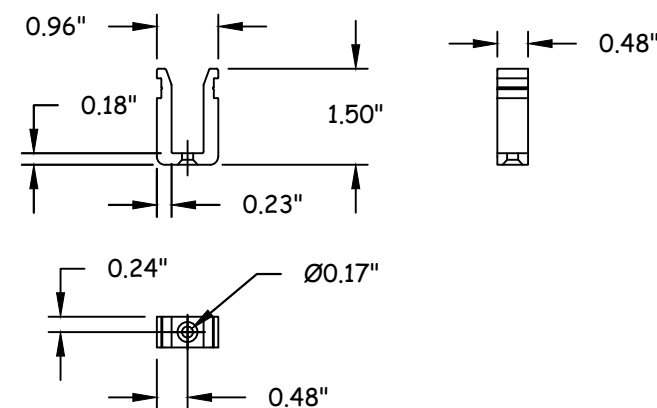
**E
3** **MULL HORIZ. SECTION**
PREMIUM MIRA MULL
Heavy: Die # 11419, Light: Die # 11421



HEAVY REINFORCEMENT
(253799)



**F
3** **HORIZONTAL SECTION**
JAMB - 2X WOOD BUCK
MULL ANCHOR CLIP



REINFORCEMENT KEY
(253800)

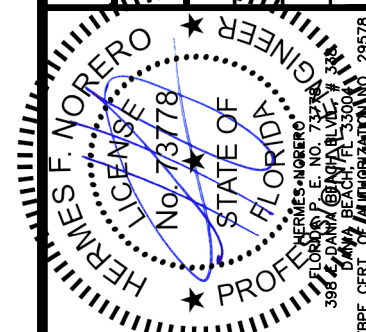


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TITLE: PREMIUM MIRA PALLADIUM MULLION	MULLION HORIZONTAL SECTIONS, DETAILS & ANCHORING		PREPARED BY:	
			BUTLING DROPS, INC. 398 E DANIA BEACH BLVD. # 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738	

NO.	DESCRIPTION	BY	DATE
A	FBC 5TH EDITION UPDATE	SM	08.20.14
B	UPDATED NOTE 7, SHEET 4	LMH	09.20.17



DATE: 02.13.12	DWN BY: GRN	CHK BY: HFN	SCALE: NTS
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DWG #:
PGW096
SHEET: **3 OF 4**

DESIGN PRESSURE CHARTS

FOR SIDE-BY-SIDE WINDOWS

Maximum design pressure capacity chart (psf)

Aluminum Reinforcement/Mullion Design

Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Light Reinforcement

Height (in)	Individual Unit Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0
16.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
24.0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	93
28.0	100	100	100	100	100	100	100	100	100	100	100	100	97	87	79
32.0	100	100	100	100	100	100	100	100	100	100	100	95	84	76	69
36.0	100	100	100	100	100	100	100	100	100	100	96	84	74	67	61
40.0	100	100	100	100	100	100	100	100	100	100	86	75	66	60	54
44.0	100	100	100	100	100	100	100	100	100	90	77	67	60	54	49
48.0	100	100	100	100	100	100	100	100	98	81	70	61	54	49	44
52.0	100	100	100	100	100	100	100	99	89	74	64	56	50	45	41
56.0	100	100	100	100	100	100	100	92	81	68	58	51	46	41	37
60.0	100	100	100	100	100	100	98	85	75	62	54	47	42	38	35
64.0	100	100	100	100	100	100	92	79	70	58	50	44	39	35	32
66.0	100	100	100	100	100	97	89	77	68	56	48	42	38	34	31
70.0	100	100	100	100	100	91	84	72	64	52	45	40	35	32	29
74.0	100	100	100	100	95	86	79	68	60	49	42	37	33	30	27
84.0	100	100	100	93	84	76	70	60	52	43	36	32	29	26	24
94.0	100	100	93	83	75	68	62	53	47	38	32	28	25	23	21
108.0	100	89	80	72	65	59	54	46	41	33	27	24	21	19	18

Maximum design pressure capacity chart (psf)

Aluminum Reinforcement/Mullion Design

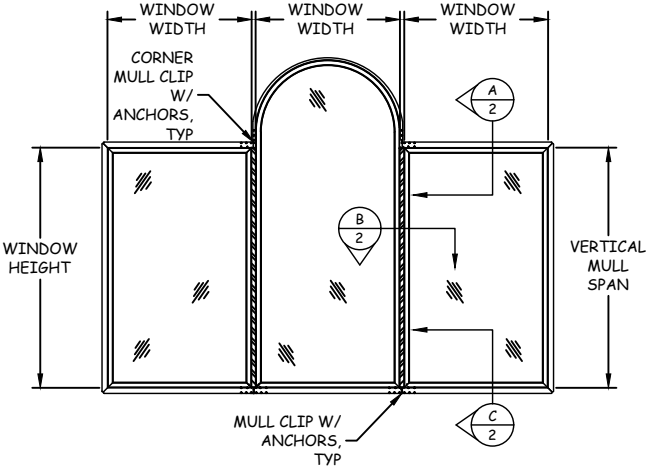
Design pressures are limited either by mullion or anchor screws or anchor clip capacity

Heavy Reinforcement

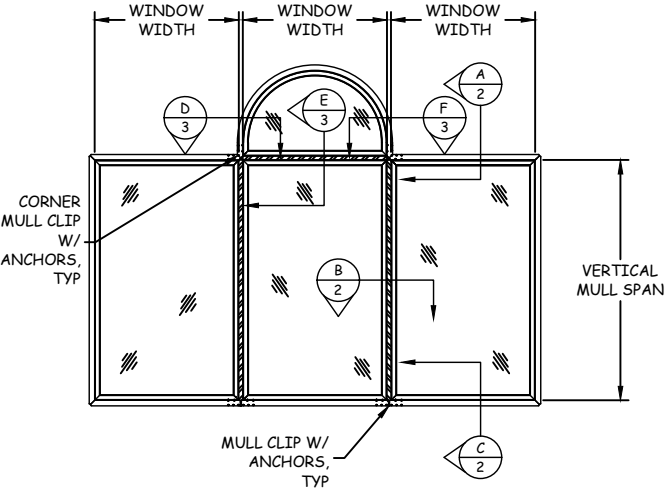
Height (in)	Individual Unit Width (in)														
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	42.0	48.0	60.0	72.0	84.0	96.0	108.0	120.0
16.0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	142
20.0	150	150	150	150	150	150	150	150	150	150	150	150	139	124	112
24.0	150	150	150	150	150	150	150	150	150	150	150	130	115	103	93
28.0	150	150	150	150	150	150	150	150	150	150	127	110	97	87	79
32.0	150	150	150	150	150	150	150	150	150	129	110	95	84	76	69
36.0	150	150	150	150	150	150	150	150	137	113	96	84	74	67	61
40.0	150	150	150	150	150	150	150	135	121	100	86	75	66	60	54
44.0	150	150	150	150	150	148	137	121	108	90	77	67	60	54	49
48.0	150	150	150	150	147	135	125	109	98	81	70	61	54	49	44
52.0	150	150	150	150	135	124	114	99	89	74	64	56	50	45	41
56.0	150	150	150	139	126	114	105	92	81	68	58	51	46	41	37
60.0	150	150	146	130	117	107	98	85	75	62	54	47	42	38	35
64.0	150	150	137	122	110	100	92	79	70	58	50	44	39	35	32
66.0	150	150	133	118	106	97	89	77	68	56	48	42	38	34	31
70.0	150	143	125	112	100	91	84	72	64	52	45	40	35	32	29
74.0	150	136	119	106	95	86	79	68	60	49	42	37	33	30	27
84.0	139	120	105	93	84	76	70	60	52	43	36	32	29	26	24
94.0	125	107	93	83	75	68	62	53	47	38	32	28	25	23	21
108.0	108	93	81	72	65	59	54	46	41	33	27	24	21	19	18

NOTES

- THE DESIGN PRESSURES IN THIS CHART ARE FOR THE MULLIONS LISTED HERE WHEN USED WITH THE CLIP AND REINFORCEMENT KEY DETAILED IN THIS DOCUMENT.
- FOR VERTICAL MULL CLIPS IN WOOD FRAMING INSTALLATION USE SIX (6) #8 WOOD SCREWS AT EACH ANCHOR CLIP. MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A 1 1/2" MINIMUM EMBEDMENT INTO FRAMING. SEE SHEETS 2 & 3 FOR DETAILS.
- FOR VERTICAL MULL CLIPS IN STEEL FRAMING INSTALLATION USE SIX (6) #8 TEK SCREWS AT EACH ANCHOR CLIP. MUST BE OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM 3 THREADS PENETRATION BEYOND STEEL STRUCTURE. SEE SHEETS 2 & 3 FOR DETAILS.
- CHARTS APPLY ONLY TO MIRA EXTRUDED MULLIONS AS SPECIFIED HERE WHEN USED TO MULL WINDOWS SIDE BY SIDE.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
- DESIGN PRESSURE VALUES APPLY TO MULLION WHERE TWO OR MORE WINDOWS ARE LISTED IN A SINGLE OPENING.
- REFER TO REPORT #5103 FOR MORE MULLION SPECIFICATIONS.



VERTICAL MULLION FOR SIDE-BY-SIDE WINDOWS



VERTICAL MULLION FOR SIDE-BY-SIDE WINDOWS W/ HORIZONTAL MULLION FOR TOP TRANSOM



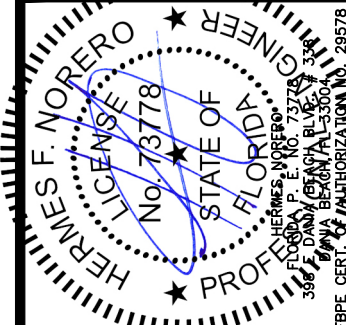
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ROCKY MOUNT, VA 24151

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TITLE:PREMIUM MIRA PALLADIUM MULLION	DESIGN PRESSURE CHARTS		PREPARED BY:	
	BY	DATE	BUILDING DROPS, INC. 398 E DANIA BEACH BLVD., # 338 DANIA BEACH, FL 33004 PH: (954) 399-8478 FX: (954) 744-4738	

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DWG #:	PGW096
SHEET:	4 OF 4