

3100 SERIES
EXTRUDED ALUMINUM, CLIPPED MULLION

- 1) THIS PRODUCT HAS BEEN EVALUATED AND IS IN COMPLIANCE WITH THE FLORIDA BUILDING CODE (FBC) STRUCTURAL REQUIREMENTS, EXCLUDING THE "HIGH VELOCITY HURRICANE ZONE".
- 2) WHEN USED IN AREAS REQUIRING WIND BORNE DEBRIS PROTECTION, THIS PRODUCT (IF MULLED TOGETHER WITH IMPACT RATED WINDOWS) DOES NOT REQUIRE PROTECTION FROM AN IMPACT RESISTANT COVERING WHEN USED IN WIND ZONES 1, 2 AND 3 AS DEFINED BY ASTM E 1996.
- 3) SEPARATE PRODUCT APPROVALS FOR EACH GLAZING PRODUCT USED WITH THESE MULLIONS MUST BE SUBMITTED ALONG WITH THIS MULLION PRODUCT APPROVAL. THE DESIGN PRESSURE RATING OF THE ASSEMBLY SHALL BE THE LESSER OF THE LOAD CAPACITY OF THE MULLION AS SPECIFIED USING THIS APPROVAL OR THE DESIGN PRESSURE RATING OF THE INDIVIDUAL GLAZING PRODUCTS USED.
- 4) ANCHORING OF EACH GLAZING PRODUCT TO THE MULLION SHALL BE AS SHOWN IN THIS DRAWING OR AS SHOWN IN EACH INDIVIDUAL GLAZING PRODUCT APPROVAL, WHICHEVER IS MORE STRINGENT.
- 5) MULLION ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- 6) ANY CONDITIONS NOT COVERED IN THIS EVALUATION ARE SUBJECT TO SEPARATE ENGINEERING EVALUATION.
- 7) FOR 2X STUD FRAMING CONSTRUCTION, ANCHORING OF THESE UNITS SHALL BE THE SAME AS THAT SHOWN FOR 2X BUCK MASONRY CONSTRUCTION.

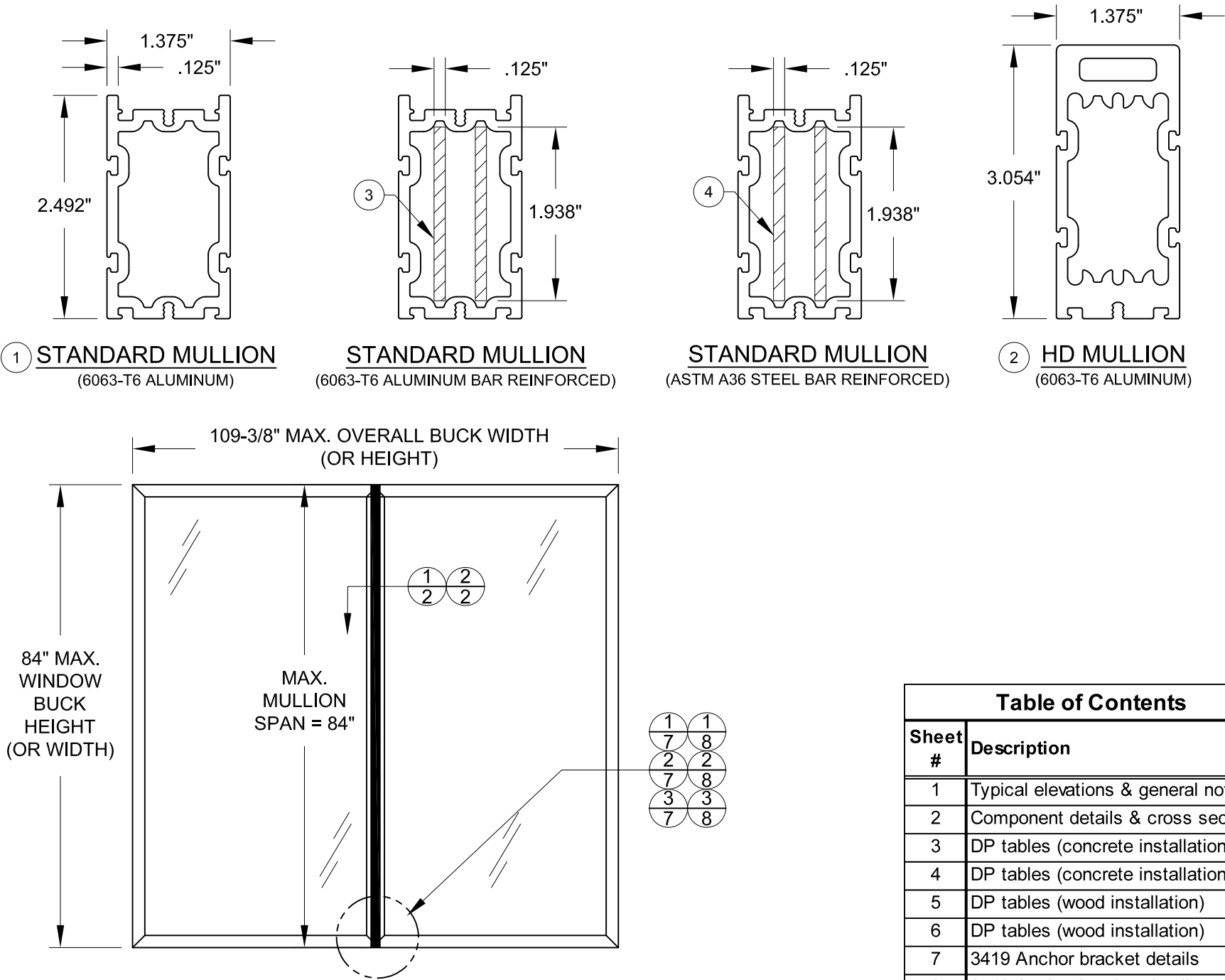
ANCHOR TABLE:

Anchor Type	Anchor Size	Min. Embedment	Min. Edge Distance	Min. O.C. Distance
DeWalt Ultracon+	3/16" or 1/4"	1-1/4"	1"	1-7/8"
Steel Wood Screw	#10 or #12	1-3/8"	1"	1"

ANCHOR NOTES:

- 1) SUBSTITUTION OF EQUAL CONCRETE ANCHORS FROM A DIFFERENT SUPPLIER MAY HAVE DIFFERENT EDGE DISTANCE AND CENTER DISTANCE REQUIREMENTS.
- 2) CONCRETE ANCHOR LOCATIONS AT THE CORNERS MAY BE ADJUSTED TO MAINTAIN THE MIN. EDGE DISTANCE TO MORTAR JOINTS. IF CONCRETE ANCHOR LOCATIONS NOTED AS "MAX. ON CENTER" MUST BE ADJUSTED TO MAINTAIN THE MIN. EDGE DISTANCE TO MORTAR JOINTS, ADDITIONAL CONCRETE ANCHORS MAY BE REQUIRED TO ENSURE THE "MAX. ON CENTER" DIMENSIONS ARE NOT EXCEEDED.
- 3) CONCRETE SHALL BE 3K PSI CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90.

FLORIDA PRODUCT APPROVAL #31232



MULLED WINDOW UNITS
(TWIN UNIT SHOWN, MULTIPLES ALSO ALLOWED)
(VERTICAL ORIENTATION SHOWN, HORIZONTAL ORIENTATION ALSO ALLOWED)

Table of Contents	
Sheet #	Description
1	Typical elevations & general notes
2	Component details & cross sections
3	DP tables (concrete installation)
4	DP tables (concrete installation)
5	DP tables (wood installation)
6	DP tables (wood installation)
7	3419 Anchor bracket details
8	3418 Anchor bracket details

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: TYP. ELEVATION & GENERAL NOTES		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 1 OF 8	Drawing No. MULLFBC-2

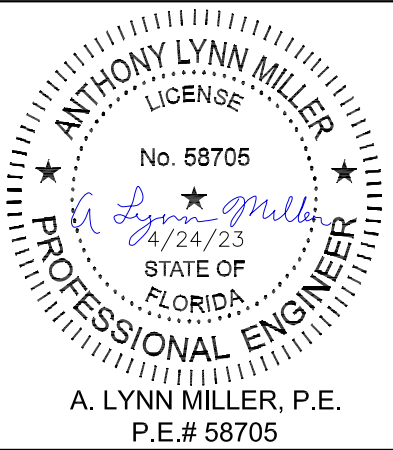
**Impact Resistant
Windows & Doors**

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(305) 593-6590

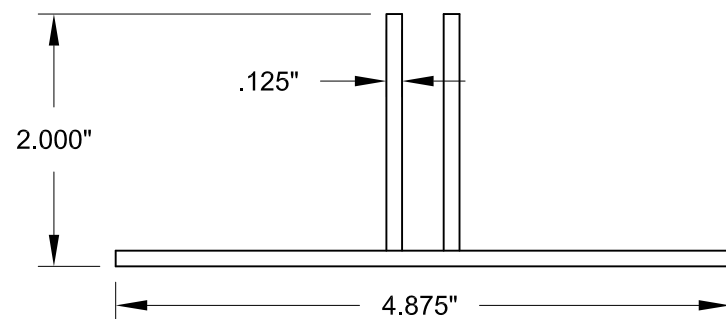
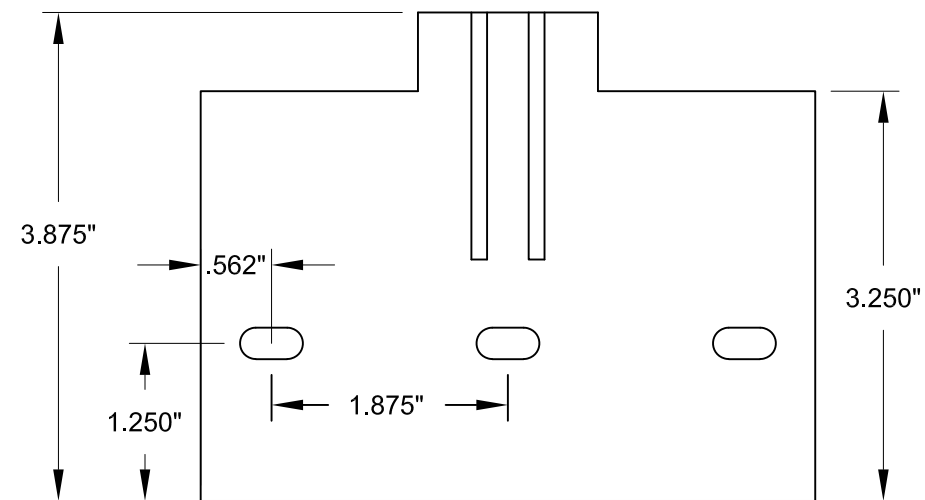
PREPARED BY A. LYNN MILLER
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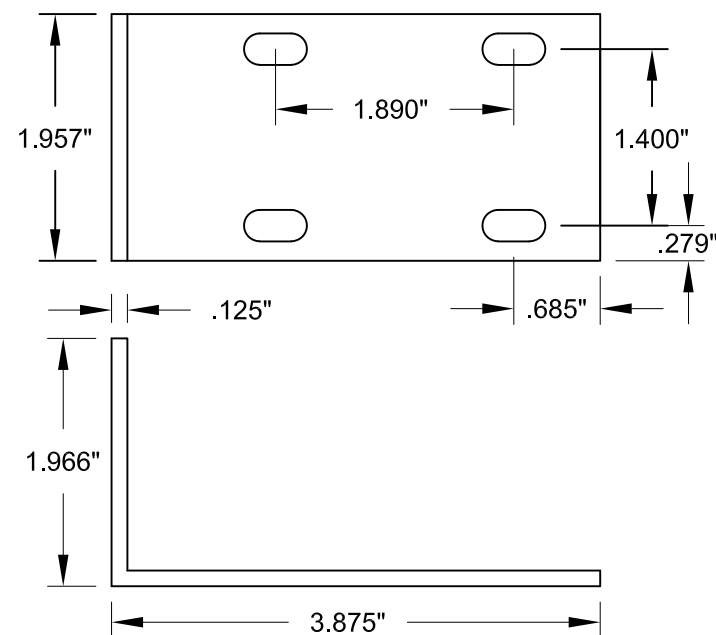
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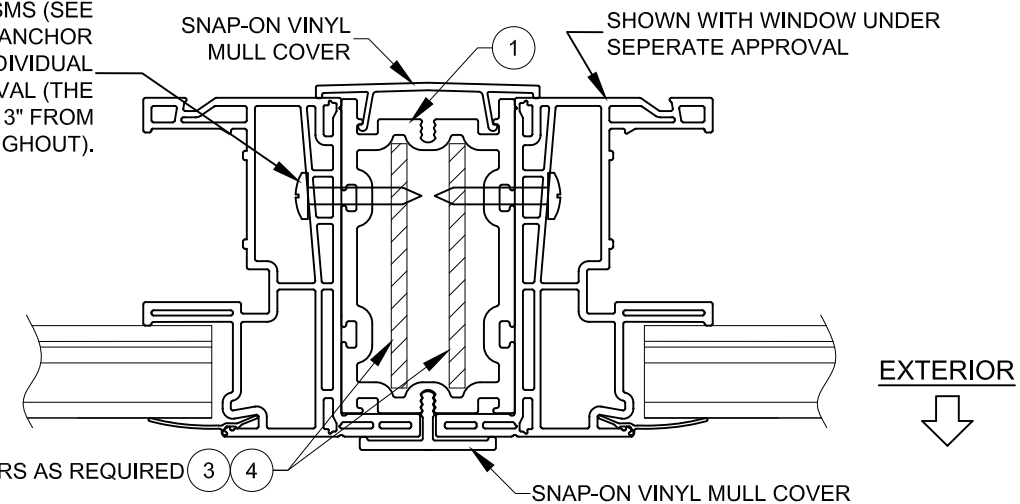


5 MULLION ANCHOR BRACKET (3419)
(6063-T6 ALUMINUM)



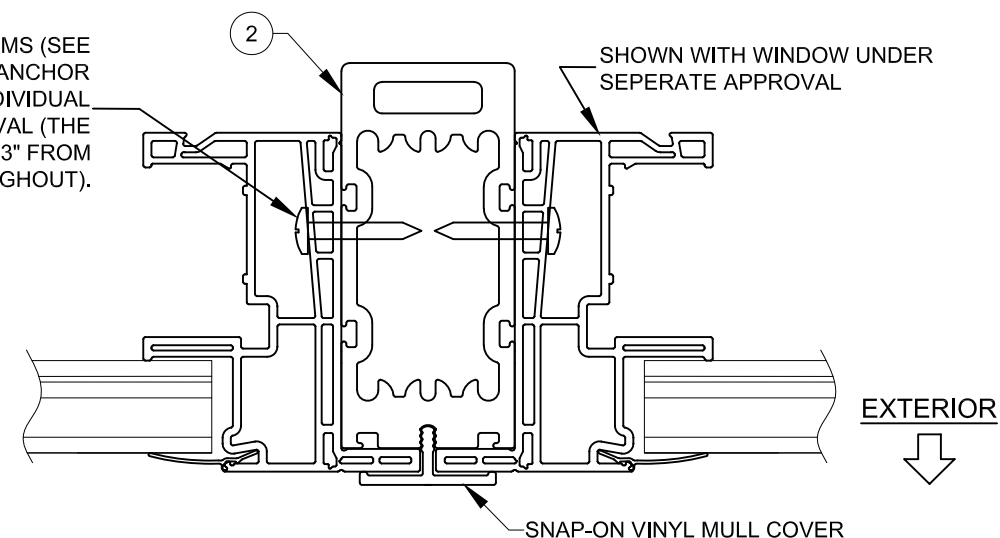
6 MULLION ANCHOR BRACKET (3418)
(6063-T6 ALUMINUM)

#10 OR #12 X 1" PH SELF-DRILLING SMS (SEE NOTES BELOW): USE THE FRAME ANCHOR SPACING AS SHOWN ON THE INDIVIDUAL WINDOW PRODUCT APPROVAL (THE MIN.REQUIRED SCREW SPACING IS: 3" FROM EACH END AND 24" MAX. O.C. THROUGHOUT).



1/2 HORIZONTAL CROSS SECTION (VERT. SIMILAR)
(SHOWN WITH STANDARD MULLION)

#10 OR #12 X 1" PH SELF-DRILLING SMS (SEE NOTES BELOW): USE THE FRAME ANCHOR SPACING AS SHOWN ON THE INDIVIDUAL WINDOW PRODUCT APPROVAL (THE MIN.REQUIRED SCREW SPACING IS: 3" FROM EACH END AND 24" MAX. O.C. THROUGHOUT).



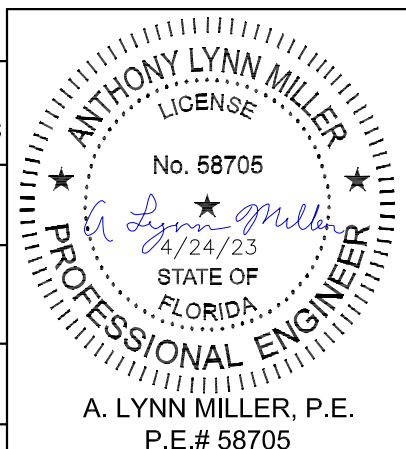
2/2 HORIZONTAL CROSS SECTION (VERT. SIMILAR)
(SHOWN WITH HD MULLION)

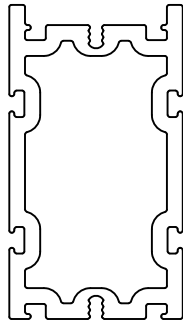
NOTES:
1) REFER TO INDIVIDUAL WINDOW PRODUCT APPROVAL FOR FABRICATION AND INSTALLATION REQUIREMENTS, INCLUDING GLAZING DETAILS, FRAME REINFORCEMENT AND ANCHORING SPECIFICATIONS .

2) SHEET METAL SCREWS (SELF-DRILLING) SHALL HAVE A MINIMUM OF 3 THREADS PROTRUDE COMPLETELY THROUGH THE MULLION FRAME. MAINTAIN A MIN. 1/2" EDGE DISTANCE.

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: COMPONENT DETAILS & CROSS SECTIONS		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 2 OF 8	Drawing No. MULLFBC-2

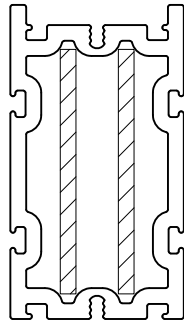
Impact Resistant Windows & Doors	3780 W 104TH STREET HIALEAH, FL 33018 (305) 593-6590
	PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600
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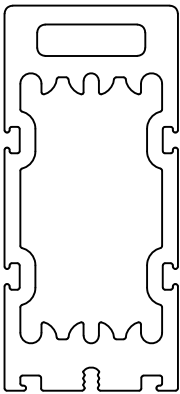
STANDARD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	34	27	23	20			
	80"	40	31	27	24	22	21	20
	76"	46	37	32	28	26	25	24
	72"	53	44	38	34	31	30	29
	69"	56	46	41	38	35	34	34
	66"	59	49	44	40	38	37	36
	63"	63	52	47	43	41	40	39
	60"	67	56	50	46	44	43	43
	54"	77	65	59	55	53	53	53
	48"	80	77	71	68	67	67	67



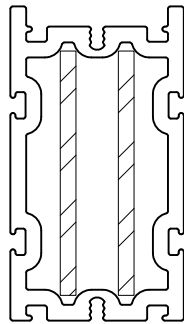
STANDARD MULLION
(6063-T6 ALUMINUM
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	41	32	28	24	22	21	20
	80"	47	38	32	29	26	25	24
	76"	50	41	36	33	30	30	29
	72"	53	44	39	35	33	32	31
	69"	56	46	41	38	35	34	34
	66"	59	49	44	40	38	37	36
	63"	63	52	47	43	41	40	39
	60"	67	56	50	46	44	43	43
	54"	77	65	59	55	53	53	53
	48"	80	77	71	68	67	67	67



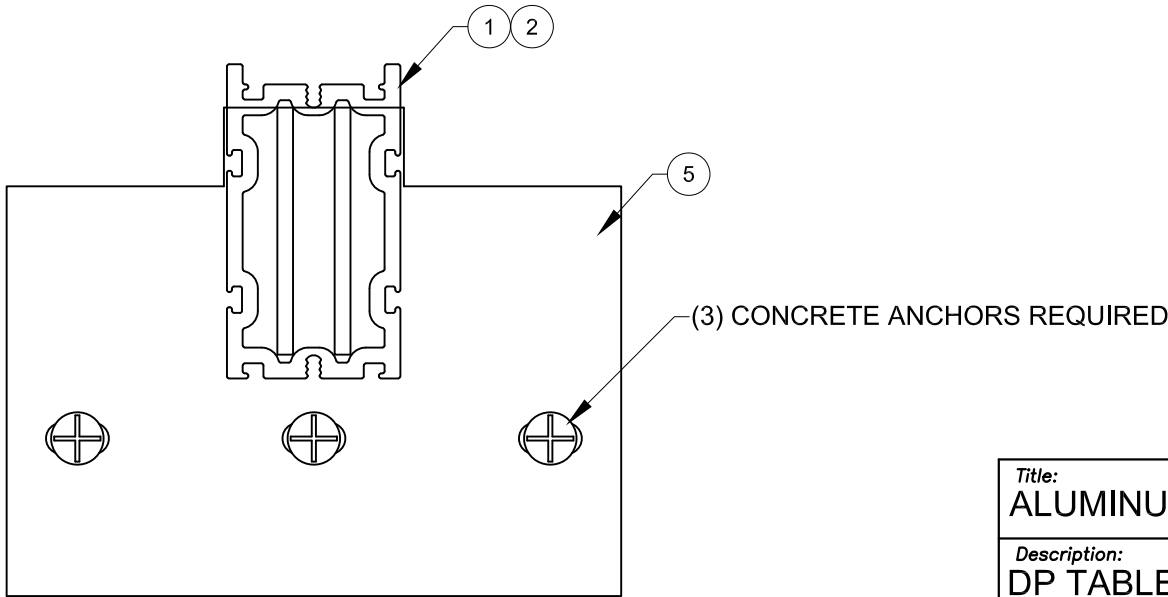
HD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	45	36	32	28	26	25	25
	80"	47	38	34	30	28	27	26
	76"	50	41	36	33	30	30	29
	72"	53	44	39	35	33	32	31
	69"	56	46	41	38	35	34	34
	66"	59	49	44	40	38	37	36
	63"	63	52	47	43	41	40	39
	60"	67	56	50	46	44	43	43
	54"	77	65	59	55	53	53	56
	48"	80	77	71	68	67	67	67



STANDARD MULLION
(ASTM A36 STEEL
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	45	36	32	28	26	25	25
	80"	47	38	34	30	28	27	26
	76"	50	41	36	33	30	30	29
	72"	53	44	39	35	33	32	31
	69"	56	46	41	38	35	34	34
	66"	59	49	44	40	38	37	36
	63"	63	52	47	43	41	40	39
	60"	67	56	50	46	44	43	43
	54"	77	65	59	55	53	53	53
	48"	80	77	71	68	67	67	67



BRACKET (3419) TO MULLION DETAILS
(CONCRETE ANCHOR INSTALLATION)

NOTES:
1) DESIGN PRESSURE TABLES ARE
APPLICABLE ONLY FOR THE ANCHOR
BRACKET AND ANCHORS SPECIFIED ON
THIS SHEET. REFER TO SHEET 7 FOR
CROSS SECTION DETAILS.

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: DP TABLES (CONCRETE INSTALLATION)		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 3 OF 8	Drawing No. MULLFBC-2

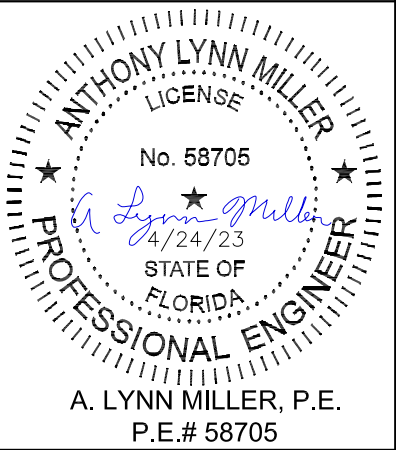
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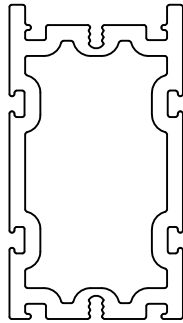
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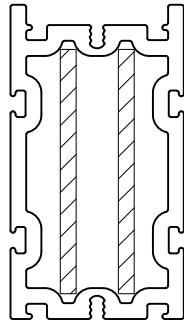


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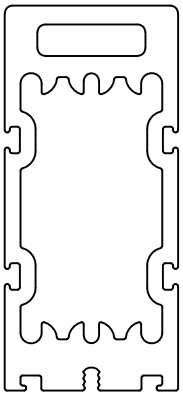
STANDARD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	34	27	23	20			
	80"	40	31	27	24	22	21	20
	76"	46	37	32	28	26	25	24
	72"	55	44	38	34	31	30	29
	69"	63	50	43	39	36	35	34
	66"	72	58	50	45	42	41	40
	63"	80	67	59	53	50	48	47
	60"	80	78	69	63	59	58	57
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



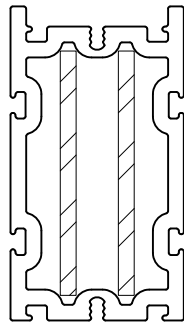
STANDARD MULLION
(6063-T6 ALUMINUM
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	41	32	28	24	22	21	20
	80"	48	38	32	29	26	25	24
	76"	56	44	38	34	31	30	29
	72"	66	53	45	41	37	36	35
	69"	75	60	52	47	43	42	41
	66"	80	69	60	54	50	49	48
	63"	80	80	71	64	60	58	57
	60"	80	80	80	73	70	69	68
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



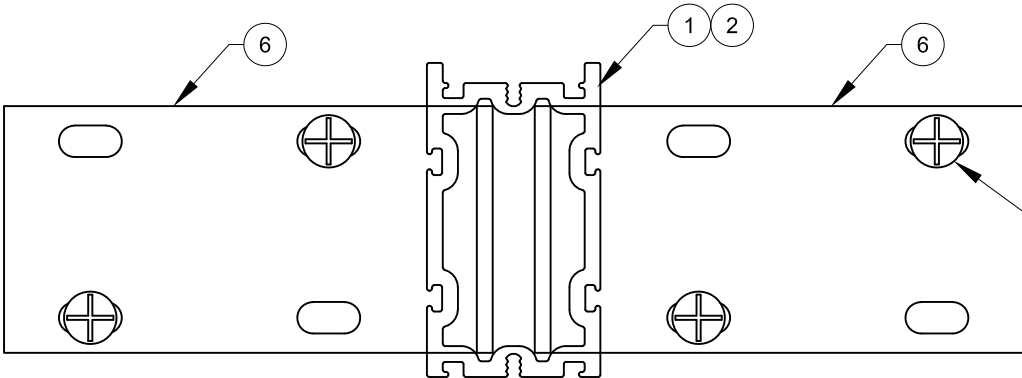
HD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	71	58	51	46	42	41	40
	80"	76	62	54	49	45	44	43
	76"	80	66	58	53	49	47	46
	72"	80	71	62	57	53	52	50
	69"	80	74	66	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



STANDARD MULLION
(ASTM A36 STEEL
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	55	43	37	33	30	28	27
	80"	64	50	43	38	35	34	32
	76"	74	59	51	45	41	40	39
	72"	80	65	61	54	50	48	47
	69"	80	74	65	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



(4) CONCRETE ANCHORS REQUIRED,
INSTALL AS SHOWN

BRACKET (3418) TO MULLION DETAILS
(CONCRETE ANCHOR INSTALLATION)

NOTES:
1) DESIGN PRESSURE TABLES ARE
APPLICABLE ONLY FOR THE ANCHOR
BRACKET AND ANCHORS SPECIFIED ON
THIS SHEET. REFER TO SHEET 8 FOR
CROSS SECTION DETAILS.

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: DP TABLES (CONCRETE INSTALLATION)		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 4 OF 8	Drawing No. MULLFBC-2

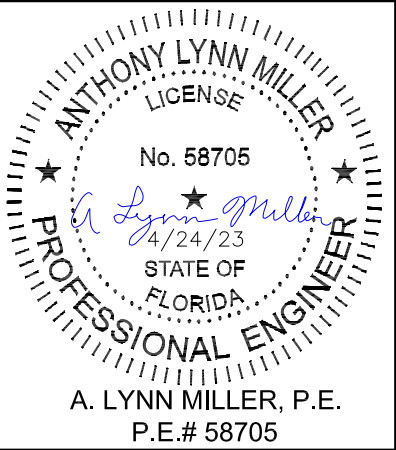
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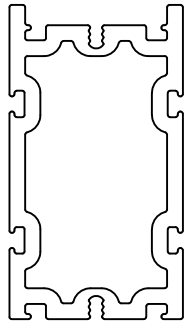
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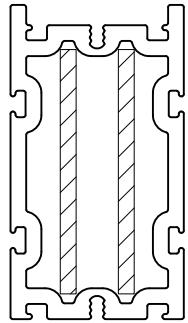


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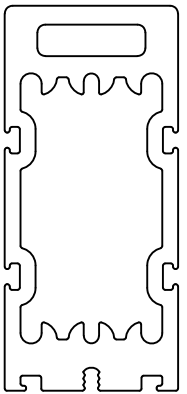
STANDARD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	34	27	23	20			
	80"	40	31	27	24	22	21	20
	76"	46	37	32	28	26	25	24
	72"	55	44	38	34	31	30	29
	69"	63	50	43	39	36	35	34
	66"	72	58	50	45	42	41	40
	63"	80	67	59	53	50	48	47
	60"	80	78	69	63	59	58	57
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



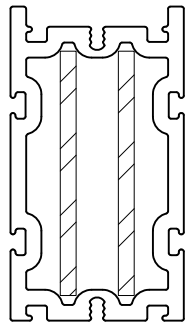
STANDARD MULLION
(6063-T6 ALUMINUM
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	41	32	28	24	22	21	20
	80"	48	38	32	29	26	25	24
	76"	56	44	38	34	31	30	29
	72"	66	53	45	41	37	36	35
	69"	75	60	52	47	43	42	41
	66"	80	69	60	54	50	49	48
	63"	80	80	71	64	60	58	57
	60"	80	80	80	73	70	69	68
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



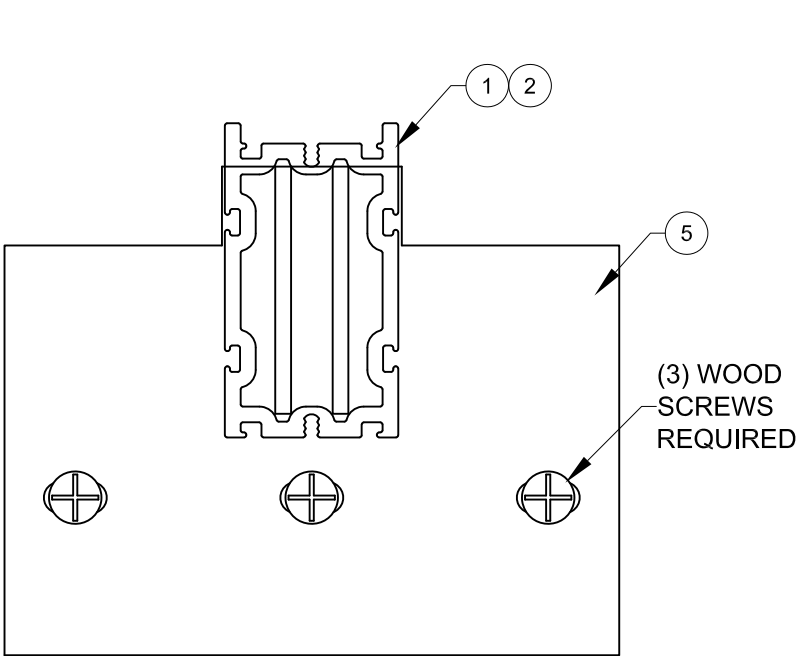
HD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	71	58	51	46	42	41	40
	80"	76	62	54	49	45	44	43
	76"	80	66	58	53	49	47	46
	72"	80	71	62	57	53	52	50
	69"	80	74	66	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80

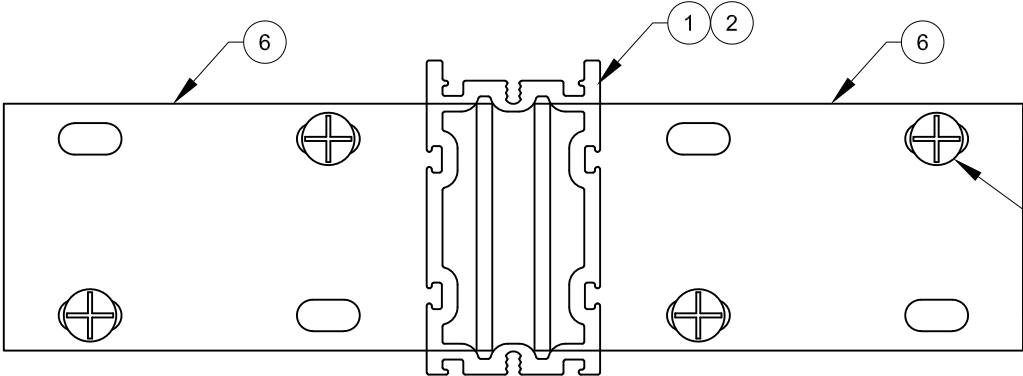


STANDARD MULLION
(ASTM A36 STEEL
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	55	43	37	33	30	28	27
	80"	64	50	43	38	35	34	32
	76"	74	59	51	45	41	40	39
	72"	80	65	61	54	50	48	47
	69"	80	74	65	60	57	55	54
	66"	80	79	70	65	61	59	58
	63"	80	80	75	69	65	64	63
	60"	80	80	80	75	71	70	69
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



BRACKET (3419) TO MULLION DETAILS
(WOOD ANCHOR INSTALLATION)



BRACKET (3418) TO MULLION DETAILS
(WOOD ANCHOR INSTALLATION)

(4) WOOD ANCHORS REQUIRED,
INSTALL AS SHOWN

NOTES:
1) DESIGN PRESSURE TABLES ARE APPLICABLE
ONLY FOR THE ANCHOR BRACKET AND
ANCHORS SPECIFIED ON THIS SHEET. REFER
TO SHEETS 7 & 8 FOR CROSS SECTION DETAILS.

Title: ALUMINUM CLIPPED MULLION (LM)			Drawn By: JENS ROSOWSKI		
Description: DP TABLES (WOOD INSTALLATION)			Date: 04/11/21		
Revision: REMOVE 3300			Rev. By: LY	Rev. Date: 04/24/23	
Series: 3100	Scale: NTS	Sheet: 5 OF 8	Drawing No. MULLFBC-2	Rev:	

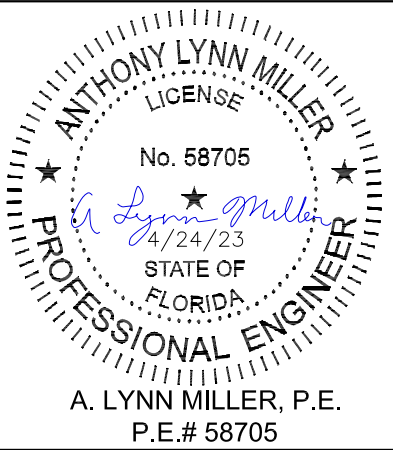
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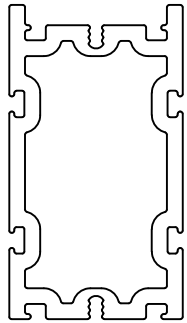
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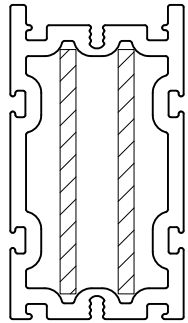


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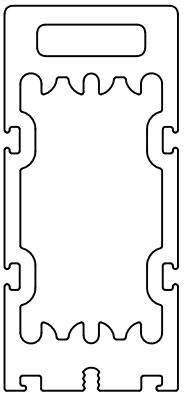
STANDARD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	34	27	23	20			
	80"	40	31	27	24	22	21	20
	76"	46	37	32	28	26	25	24
	72"	55	44	38	34	31	30	29
	69"	63	50	43	39	36	35	34
	66"	72	58	50	45	42	41	40
	63"	80	67	59	53	50	48	47
	60"	80	78	69	63	59	58	57
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



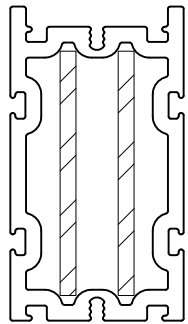
STANDARD MULLION
(6063-T6 ALUMINUM
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	41	32	28	24	22	21	20
	80"	48	38	32	29	26	25	24
	76"	56	44	38	34	31	30	29
	72"	66	53	45	41	37	36	35
	69"	75	60	52	47	43	42	41
	66"	80	69	60	54	50	49	48
	63"	80	80	71	64	60	58	57
	60"	80	80	80	73	70	69	68
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



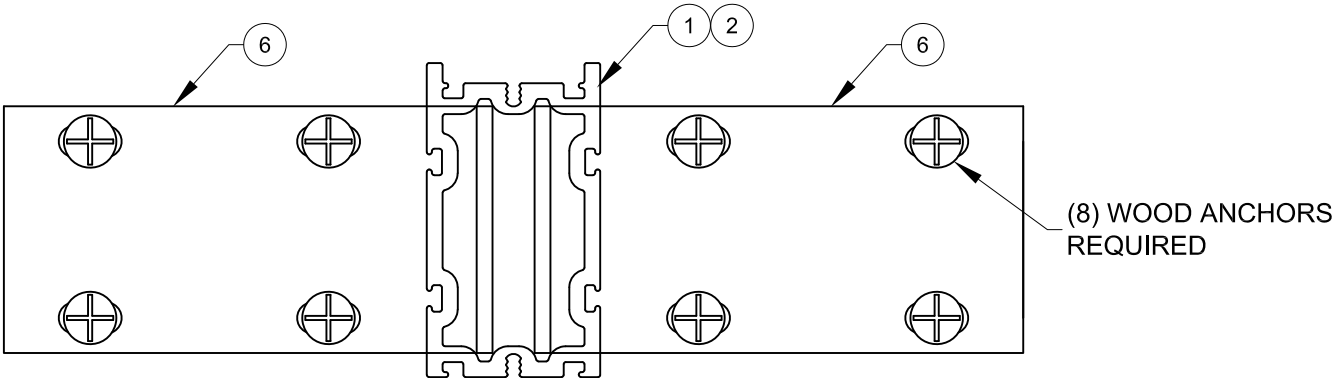
HD MULLION
(6063-T6 ALUMINUM)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	80	65	56	49	45	43	41
	80"	80	77	65	58	53	51	49
	76"	80	80	77	68	62	60	58
	72"	80	80	80	80	75	72	70
	69"	80	80	80	80	80	80	80
	66"	80	80	80	80	80	80	80
	63"	80	80	80	80	80	80	80
	60"	80	80	80	80	80	80	80
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



STANDARD MULLION
(ASTM A36 STEEL
BAR REINFORCED)

		Design Pressure, psf						
		Max. Overall Buck Width						
		48"	62"	74"	86"	98"	104"	109-3/8"
Max. Mullion Span	84"	55	43	37	33	30	28	27
	80"	64	50	43	38	35	34	32
	76"	74	59	51	45	41	40	39
	72"	80	65	61	54	50	48	47
	69"	80	80	65	63	58	56	55
	66"	80	80	80	73	68	66	64
	63"	80	80	80	80	80	78	76
	60"	80	80	80	80	80	80	80
	54"	80	80	80	80	80	80	80
	48"	80	80	80	80	80	80	80



BRACKET (3418) TO MULLION DETAILS
(WOOD ANCHOR INSTALLATION)

NOTES:
1) DESIGN PRESSURE TABLES ARE APPLICABLE ONLY FOR THE ANCHOR BRACKET AND ANCHORS SPECIFIED ON THIS SHEET. REFER TO SHEET 8 FOR CROSS SECTION DETAILS.

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: DP TABLES (WOOD INSTALLATION)		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 6 OF 8	Drawing No. MULLFBC-2

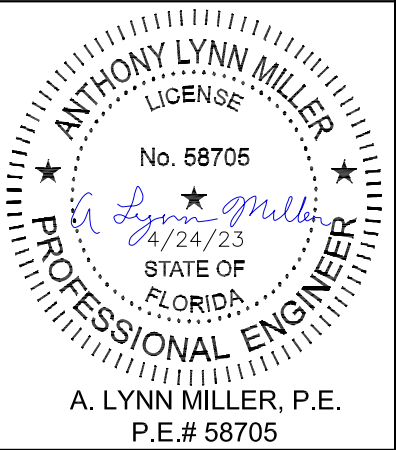
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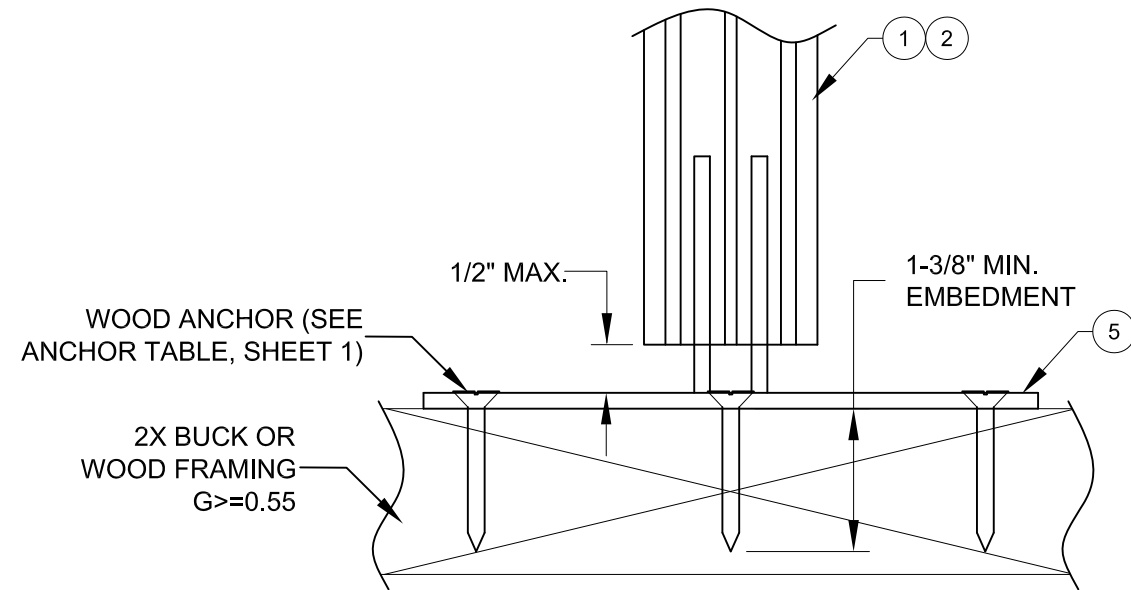
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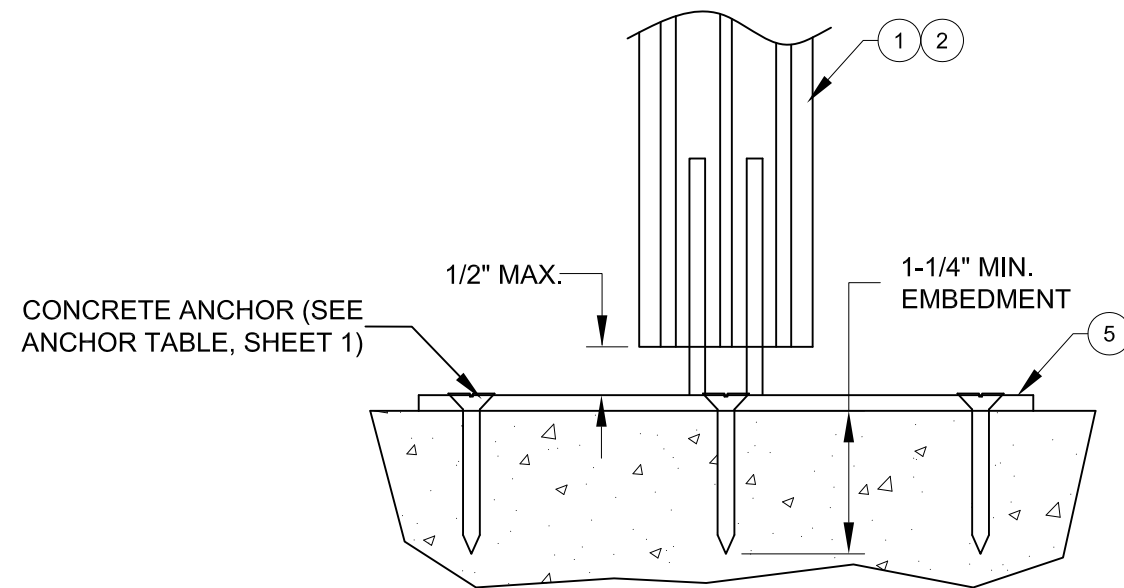
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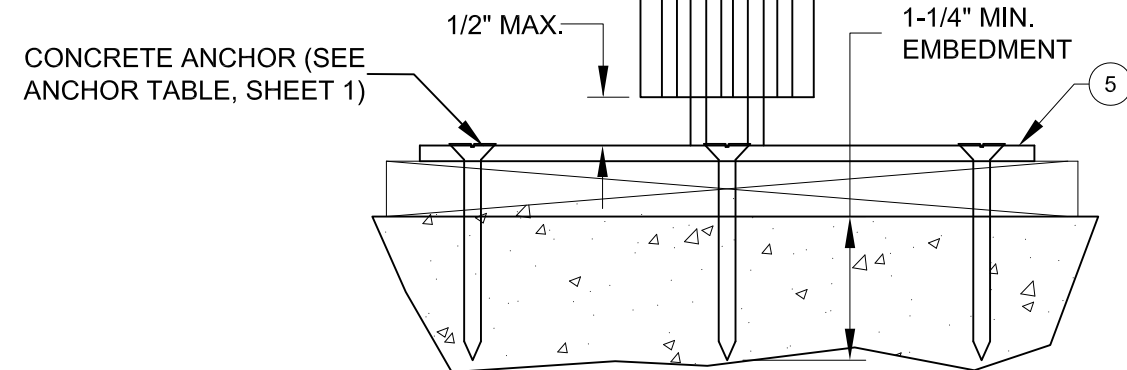
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WOOD ANCHOR BRACKET DETAIL
(ANCHOR TO 2X BUCK)



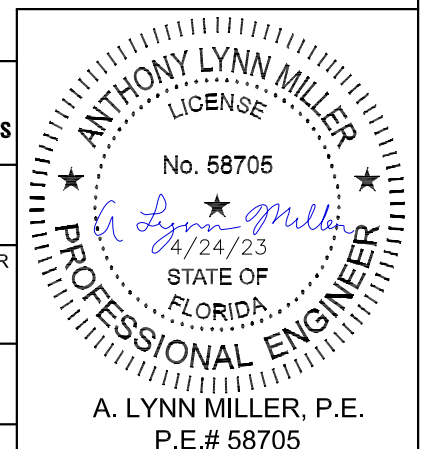
CONCRETE ANCHOR BRACKET DETAIL
(ANCHOR DIRECTLY TO MASONRY)

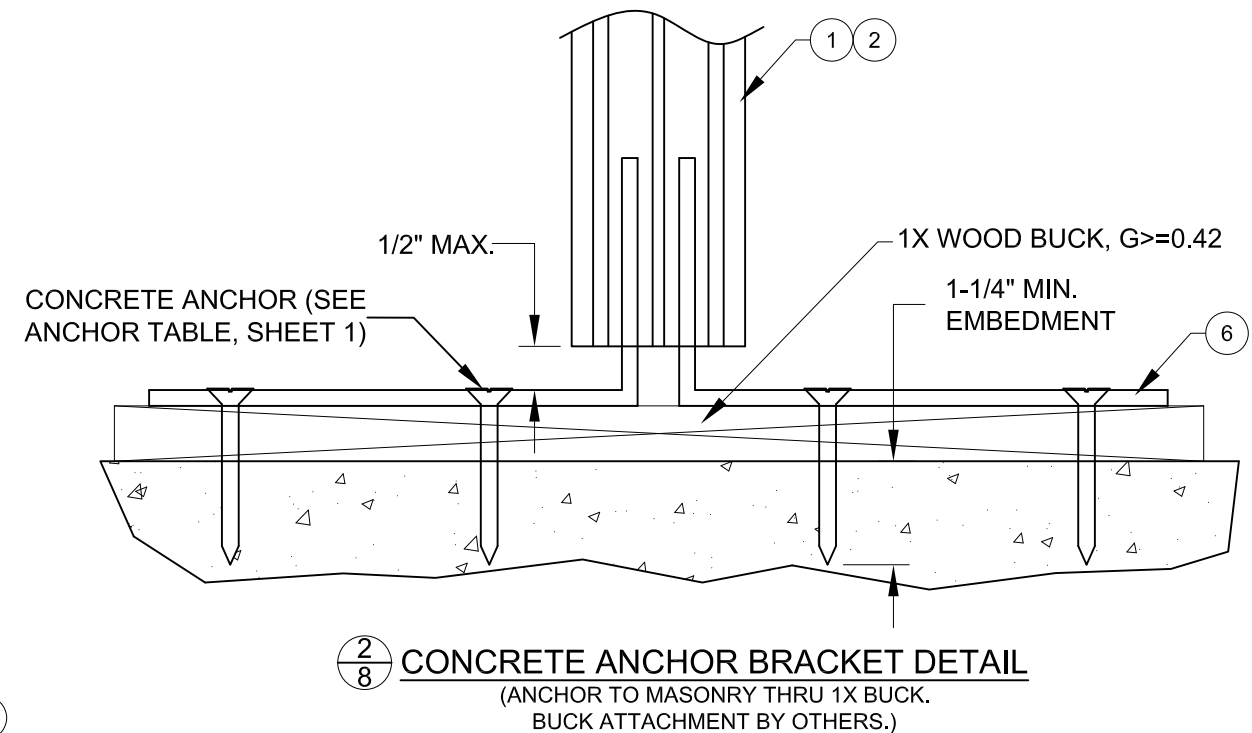
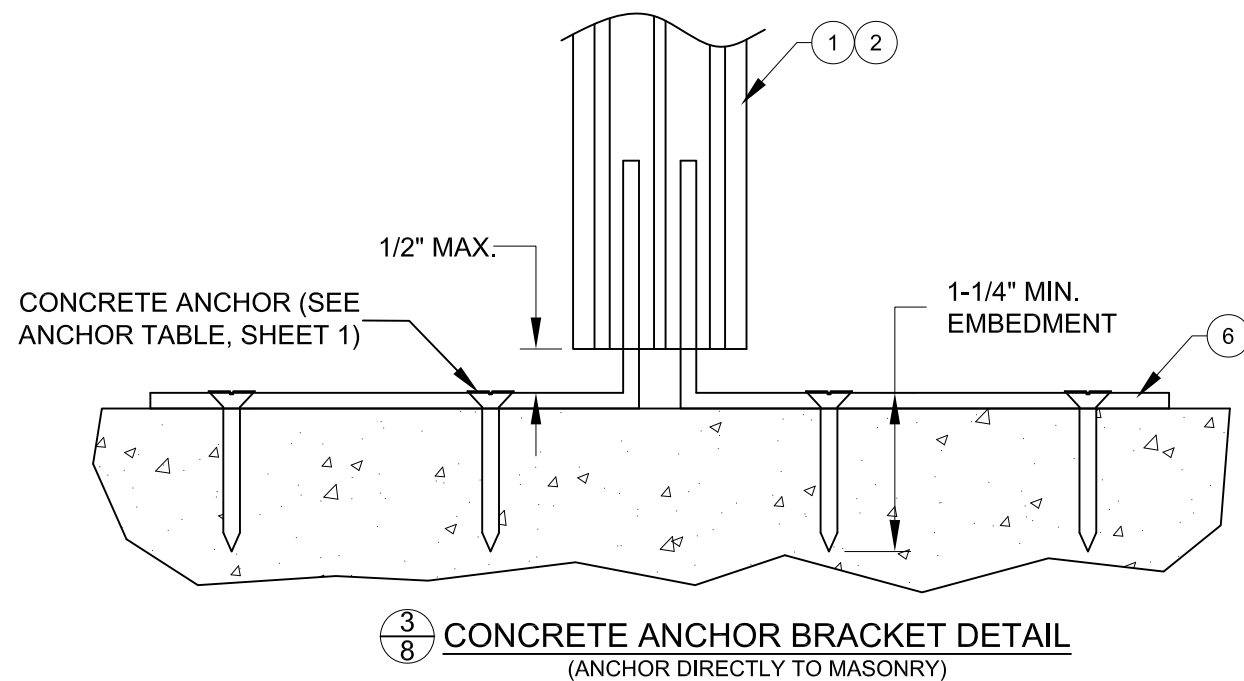
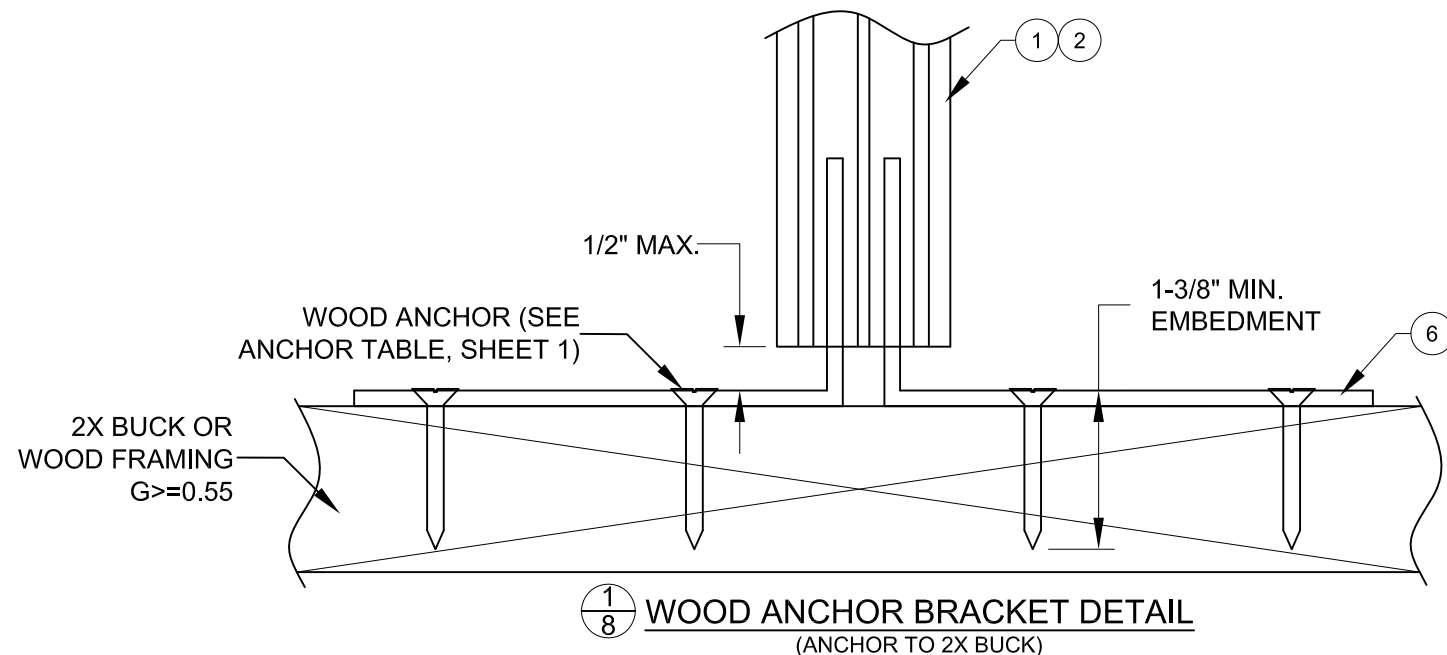


CONCRETE ANCHOR BRACKET DETAIL
(ANCHOR TO MASONRY THRU 1X BUCK.
BUCK ATTACHMENT BY OTHERS.)

Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: 3419 ANCHOR BRACKET DETAILS		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 7 OF 8	Drawing No. MULLFBC-2

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Title: ALUMINUM CLIPPED MULLION (LM)		Drawn By: JENS ROSOWSKI	
Description: 3418 ANCHOR BRACKET DETAILS		Date: 04/11/21	
Revision: REMOVE 3300		Rev. By: LY	Rev. Date: 04/24/23
Series: 3100	Scale: NTS	Sheet: 8 OF 8	Drawing No. MULLFBC-2

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