

SHWINCO ARCHITECTURAL PRODUCTS, LLC

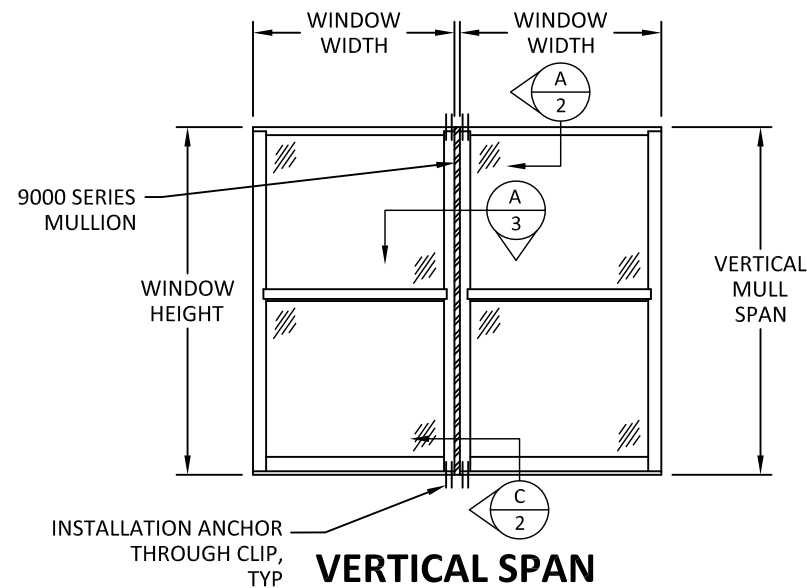
9000 SERIES MULLION (WIND ZONE 3)(IMPACT)

NOTES:

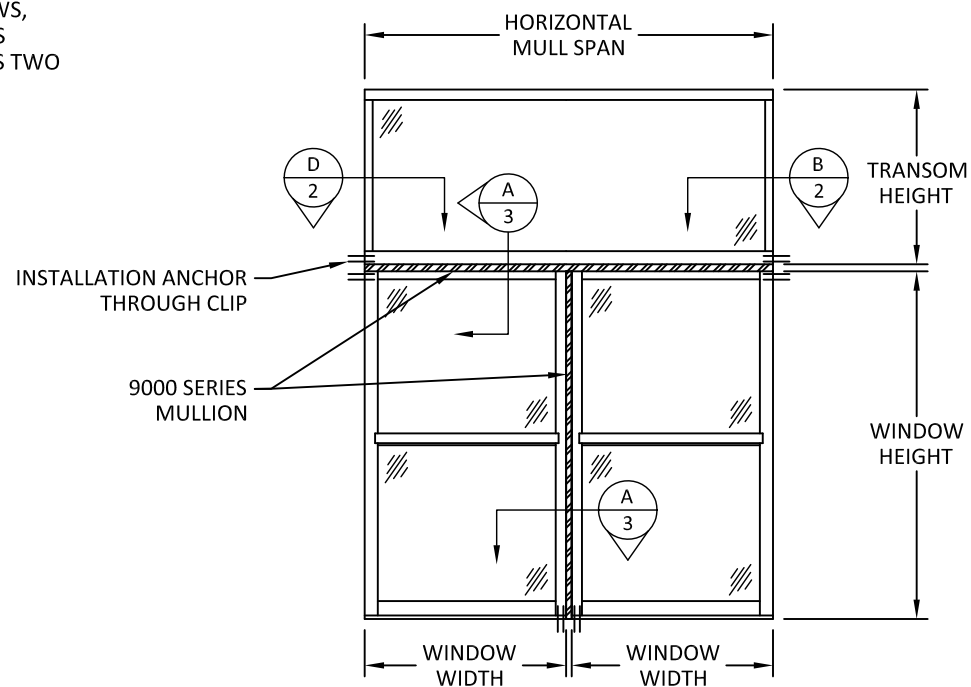
- THE PRODUCT SHOWN HEREIN HAS BEEN TESTED PER AAMA/WDMA/CSA 101/I.S.2/A440-11/17, ASTM E1886-13, AND ASTM E1996-17 AND IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC), SECTION 1709.8, EXCLUDING HVHZ.
- MULLION INSTALLATION DETAILS APPLY TO SHWINCO 9000 SERIES ALUMINUM MULLION WITH ALUMINUM ANCHOR CLIP WHEN USED TO MULL WINDOWS SIDE BY SIDE AND STACKED.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS NOT REQUIRED** ON THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE IN WIND ZONE 3 OR LESS. ADJOINING WINDOW AND DOORS SHALL BE EQUALLY RATED OR PROVIDED WITH AN IMPACT RESISTANT COVERING.
- APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** IN WIND ZONE 4.
- 1X AND 2X 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.
- SEE CHARTS & NOTES ON SHEETS 4-7 FOR DESIGN PRESSURE AND ANCHORING REQUIREMENTS.
- THIS MULLION IS ONLY VALID WHEN USED IN CONJUNCTION WITH APPLICABLE SHWINCO WINDOW AND DOOR PRODUCTS.
- ALL WINDOWS AND/OR DOORS USED WITH THIS MULLION SHALL BE QUALIFIED UNDER SEPARATE APPROVAL. WINDOWS AND DOORS SHALL FOLLOW ANCHORING REQUIREMENTS PER SEPARATE APPROVAL. TYPICAL ELEVATIONS SHOW SINGLE HUNG AND FIXED WINDOWS, MULLION IS QUALIFIED FOR USE WITH ALL OPERATOR TYPES AND COMPATIBLE SERIES AVAILABLE FROM SHWINCO. WHEN ADJACENT WINDOWS DO NOT USE SILL ANCHORS TWO WAY DESIGN PRESSURES MUST BE USED.
- MULLION MATERIAL: 6005-T5 ALUMINUM.
- CLIP MATERIAL: 304 STAINLESS STEEL.

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7	TWO WAY DESIGN PRESSURE TABLES - CMU
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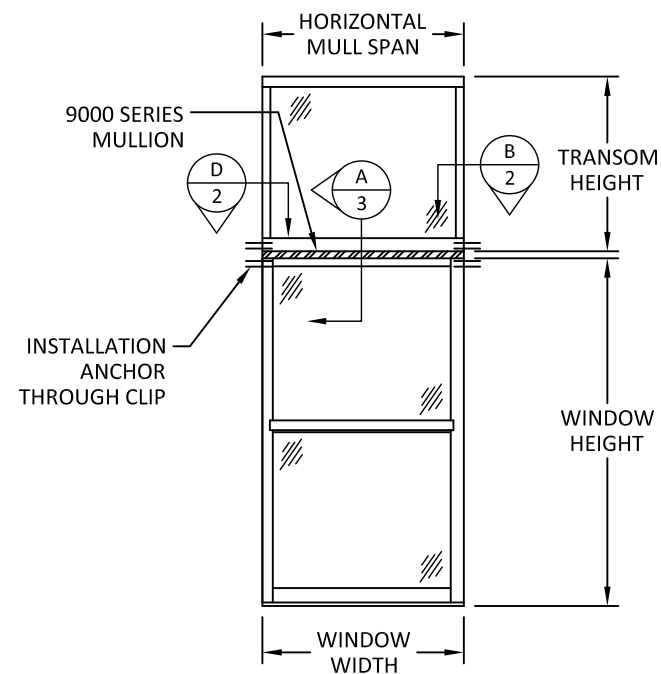
TYPICAL ELEVATIONS



VERTICAL SPAN TWIN WINDOWS



HORIZONTAL "T" MULL SPAN TWIN W/ TRANSOM



HORIZONTAL SPAN SINGLE W/ TRANSOM



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE: 9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)
NOTES AND TYPICAL ELEVATIONS

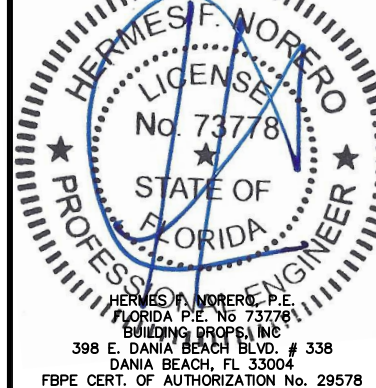
PREPARED BY: BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



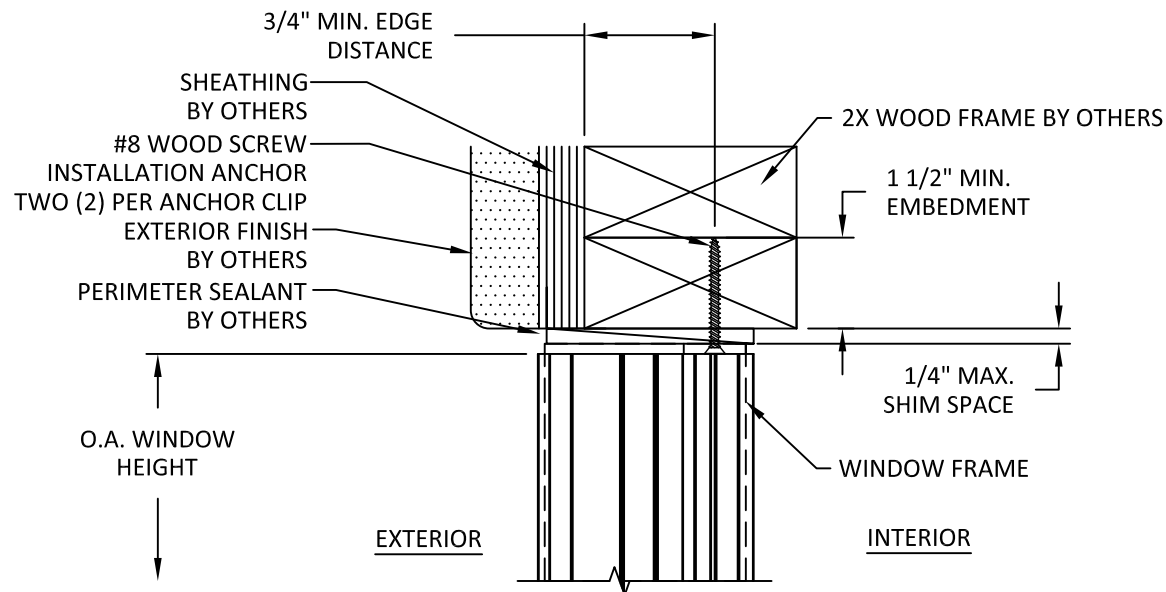
REMARKS	BY	DATE
DWG # UPDATE	SM	10.29.19
2020 FBC UPDATE	NUS	09.17.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

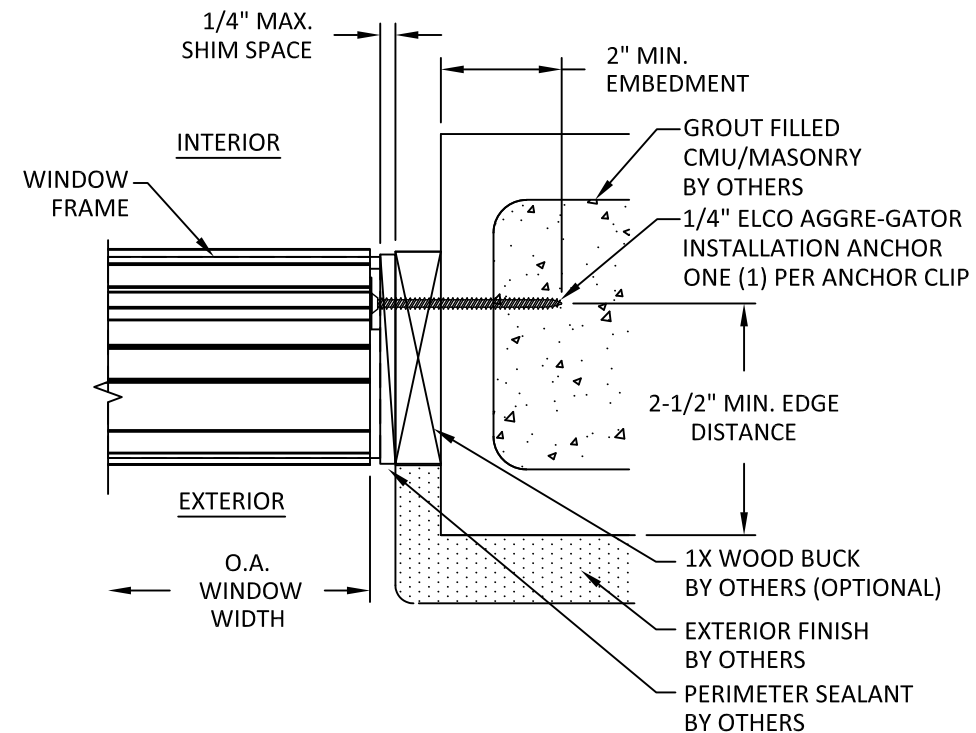
Digitally signed by Hermes F Norero
Reason: I am approving this document
Date: 2020.10.11 18:54:19 -02'00'



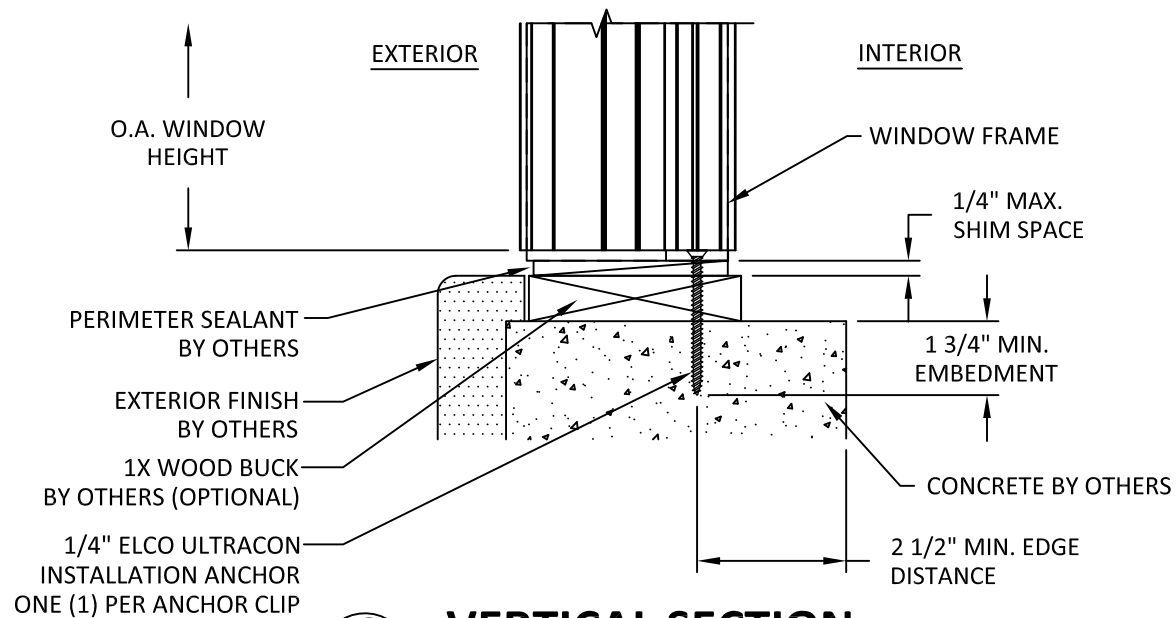
FL #:	FL29827
DATE:	03.14.2019
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SWD049
SHEET:	1



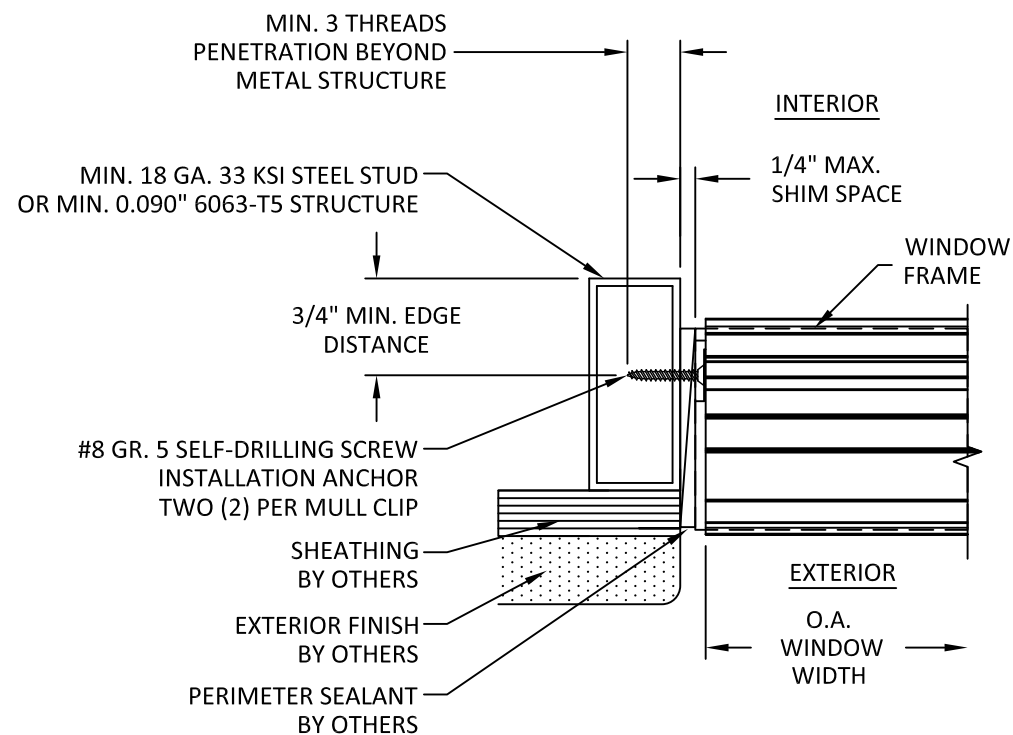
A
2 **VERTICAL SECTION**
HEAD - 2X WOOD FRAME



B
2 **HORIZONTAL SECTION**
JAMB - CMU/MASONRY



C
2 **VERTICAL SECTION**
SILL - CONCRETE



D
2 **HORIZONTAL SECTION**
JAMB - METAL SUBSTRATE



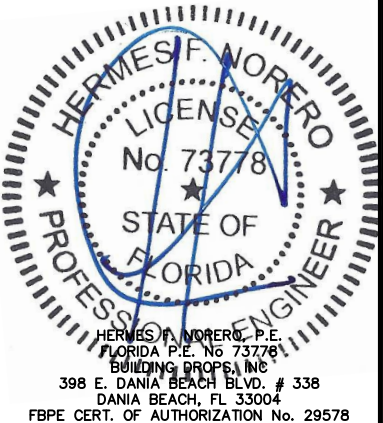
171 JET SERVICES WAY
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(WIND ZONE 3)(IMPACT)
INSTALLATION DETAILS

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DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SWD049
SHEET:	2

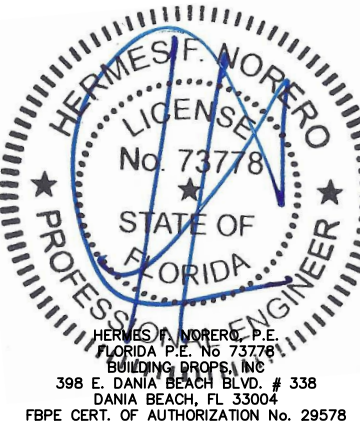
TITLE: 9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)
MULLION AND CLIP DETAILS

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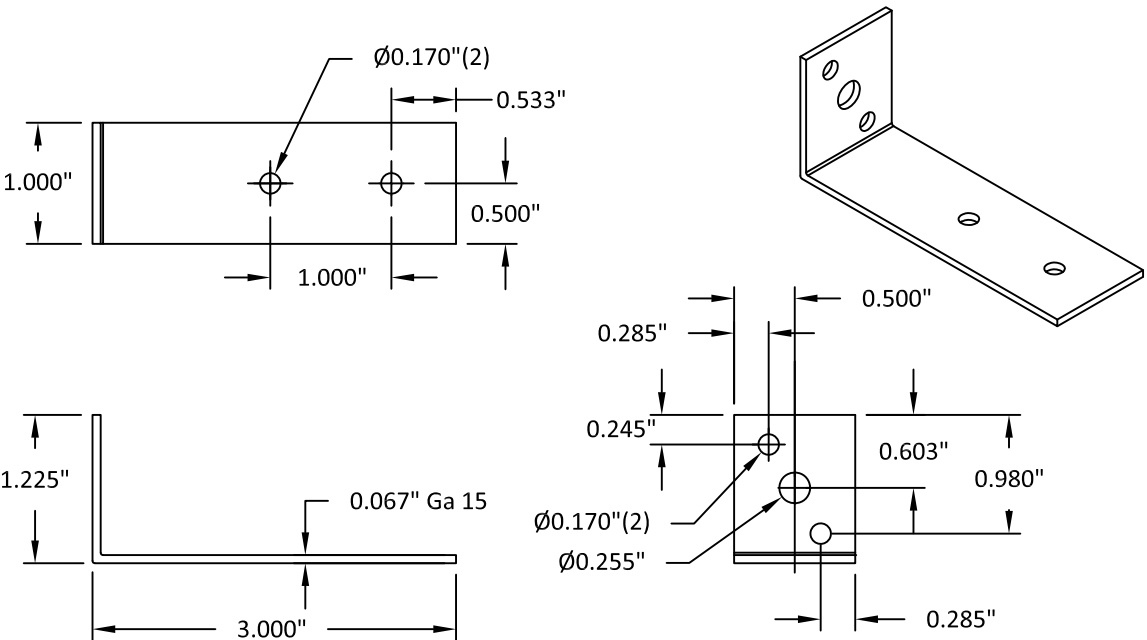


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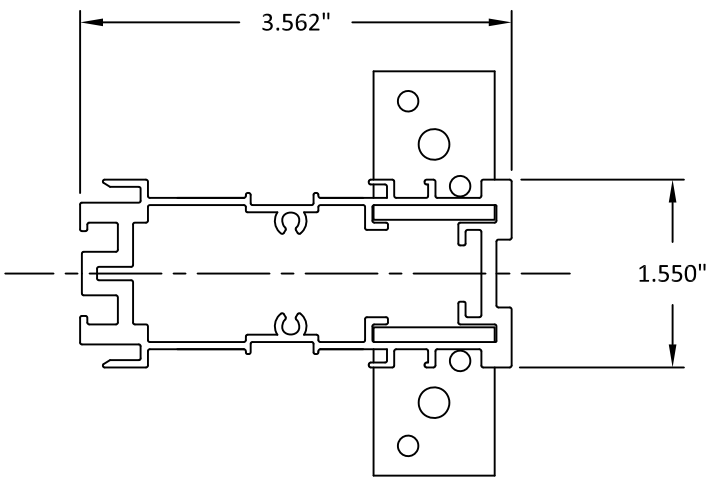


FL #:	FL29827
DATE:	03.14.2019
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	SWD049
SHEET:	3
	OF 8

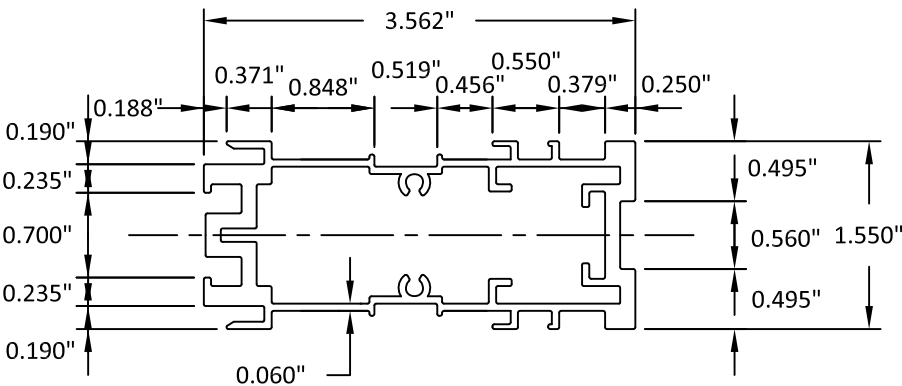


ANCHOR CLIP 304 STAINLESS STEEL

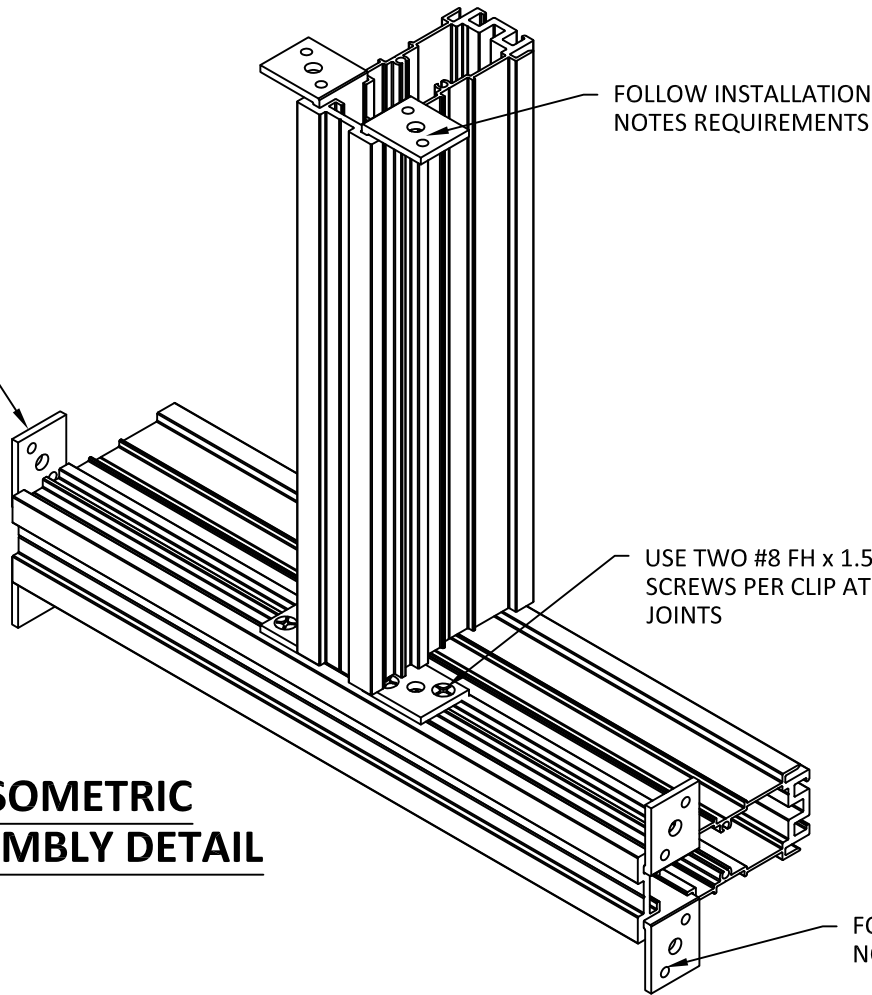
- INSTALLATION NOTES:
- FOR INSTALLATION TO WOOD, STEEL, OR ALUMINUM, USE TWO (2) #8 DIAMETER SCREWS PER CLIP, THROUGH OUTER HOLES WITH 0.170" DIAMETER
 - FOR INSTALLATION TO CONCRETE, USE ONE (1) 1/4" ELCO ULTRA CON PER CLIP, THROUGH CENTER HOLE WITH 0.255" DIAMETER
 - FOR INSTALLATION TO CMU, USE ONE (1) 1/4" ELCO AGGRE-GATOR PER CLIP, THROUGH CENTER HOLE WITH 0.255" DIAMETER
 - WINDOW FRAMES SHALL BE ATTACHED TO MULLION USING MINIMUM #8FH X 1-1/4" SCREWS AT MAXIMUM 3" FROM CORNERS AND 8" O.C.



A 3 SECTION ASSEMBLED MULLION AND CLIP VERTICAL AND/OR HORIZONTAL ORIENTATION



9000 SERIES MULLION 6005-T5



ISOMETRIC ASSEMBLY DETAIL

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 9000 SERIES MULLION - ONE WAY - INSTALLATION TO WOOD, STEEL, ALUMINUM OR CONCRETE																								
L - MULL LENGTH (IN)	W - TRIBUTARY WIDTH (IN)																							
	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.625	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0	
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
51.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
54.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
57.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
60.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
63.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
66.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
69.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	96.4	93.6	91.4	89.7	88.5	87.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	
72.0	100.0	100.0	100.0	100.0	99.2	94.4	90.3	87.0	84.2	81.9	80.1	78.8	77.7	77.2	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	
75.0	100.0	100.0	100.0	96.0	90.5	86.0	82.1	78.9	76.2	74.0	72.2	70.7	69.4	68.8	68.3	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	
78.0	100.0	100.0	94.1	88.1	83.0	78.7	75.0	72.0	69.4	67.2	65.4	63.9	62.5	61.8	61.1	60.7	60.6	60.6	60.6	60.6	60.6	60.6	60.6	
81.0	100.0	93.7	86.8	81.1	76.3	72.3	68.9	65.9	63.5	61.3	59.5	58.0	56.6	55.8	55.1	54.5	54.2	54.1	54.1	54.1	54.1	54.1	54.1	
84.0	94.5	86.7	80.3	75.0	70.5	66.7	63.5	60.7	58.3	56.2	54.5	53.0	51.6	50.8	49.9	49.3	48.9	48.6	48.5	48.5	48.5	48.5	48.5	
87.0	87.9	80.6	74.6	69.6	65.3	61.7	58.7	56.0	53.8	51.8	50.1	48.7	47.2	46.4	45.6	44.9	44.3	44.0	43.7	43.6	43.6	43.6	43.6	
90.0	81.9	75.0	69.4	64.7	60.7	57.3	54.4	51.9	49.8	47.9	46.3	44.9	43.4	42.6	41.8	41.0	40.5	40.0	39.7	39.5	39.4	39.4	39.4	
93.0	76.5	70.1	64.8	60.3	56.6	53.4	50.6	48.3	46.2	44.4	42.8	41.5	40.1	39.3	38.4	37.7	37.1	36.6	36.2	36.0	35.8	35.7	35.7	
96.0	71.6	65.6	60.6	56.4	52.9	49.8	47.2	45.0	43.0	41.3	39.8	38.5	37.2	36.4	35.5	34.8	34.2	33.7	33.2	32.9	32.7	32.5	32.5	
97.92	68.8	62.9	58.1	54.1	50.7	47.8	45.2	43.1	41.2	39.5	38.0	36.8	35.4	34.7	33.8	33.1	32.5	32.0	31.5	31.2	30.9	30.7	30.6	
99.0	67.2	61.5	56.8	52.9	49.5	46.6	44.2	42.0	40.2	38.5	37.1	35.9	34.5	33.8	32.9	32.2	31.6	31.1	30.6	30.3	30.0	29.8	29.7	
102.0	63.2	57.8	53.4	49.6	46.5	43.8	41.4	39.4	37.6	36.0	34.7	33.5	32.2	31.5	30.7	29.9	29.3	28.8	28.3	27.9	27.6	27.4	27.2	
105.0	59.6	54.5	50.3	46.7	43.7	41.1	38.9	37.0	35.3	33.8	32.5	31.3	30.1	29.4	28.6	27.9	27.3	26.8	26.3	25.9	25.6	25.3	25.1	
108.0	56.2	51.4	47.4	44.0	41.2	38.7	36.6	34.8	33.2	31.8	30.5	29.4	28.2	27.5	26.8	26.1	25.5	25.0	24.5	24.1	23.7	23.5	23.2	
111.0	52.1	47.7	44.0	40.9	38.3	36.1	34.1	32.4	31.0	29.7	28.5	27.5	26.4	25.8	25.1	24.4	23.9	23.3	22.9	22.5	22.1	21.8	21.6	
114.0	48.0	43.9	40.5	37.7	35.2	33.2	31.4	29.8	28.4	27.2	26.2	25.2	24.2	23.6	23.0	22.4	21.8	21.4	21.0	20.6	20.3	20.0	19.8	
117.0	44.3	40.5	37.4	34.8	32.5	30.6	28.9	27.5	26.2	25.1	24.1	23.2	22.2	21.7	21.1	20.5	20.0	19.6	19.2	18.8	18.5	18.3	18.0	
120.0	41.0	37.5	34.6	32.1	30.1	28.3	26.7	25.4	24.2	23.1	22.2	21.3	20.5	19.9	19.4	18.8	18.4	17.9	17.6	17.2	16.9	16.7	16.4	

TABLE NOTES:

1.

SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 3 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
2.

FOR DIMENSIONS INTERMEDIATE ON THE VALUES SHOWN IN THE TABLES REFER TO THE LARGER VALUE.
3.

ANCHOR AND SUBSTRATE REQUIREMENTS:

• WOOD: #8 WOOD SCREWS

••

WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.5" & EDGE DISTANCE OF 0.75". WOOD SHALL BE MIN. S.G.=0.55.

• CONCRETE: 1/4" ELCO ULTRACON

••

CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.75" & EDGE DISTANCE OF 2.5". CONCRETE SHALL BE MIN. 3000 PSI.

• METAL: #8 SELF-DRILLING SCREWS (GRADE 5)

••

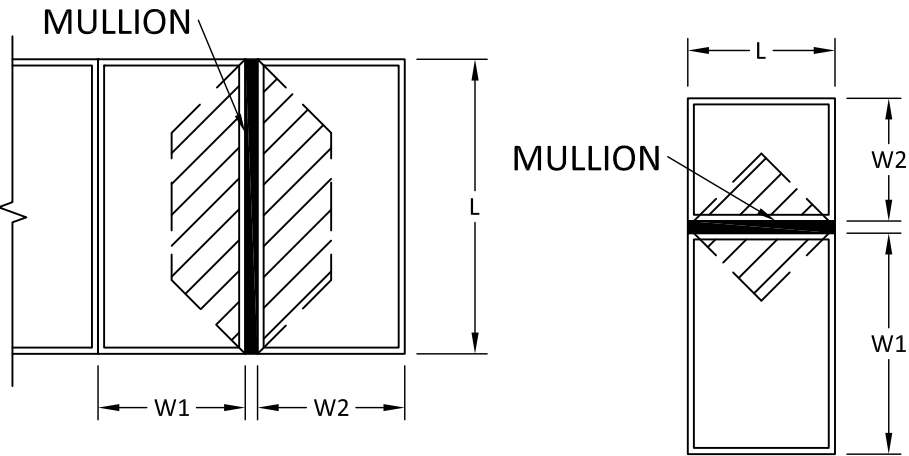
METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD & ALUMINUM SHALL BE MIN. 0.090" THICK ALUMINUM 6063-T5. WITH MIN. EDGE DISTANCE OF 0.75" FOR BOTH ALUM. AND STEEL.
4.

READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5.

CHART IS NOT LIMITED TO TWO WINDOW UNITS IN A SINGLE OPENING, DESIGN LOAD CAPACITIES APPLY TO ANY NUMBER OF WINDOW UNITS OF SIZES LISTED ON CHART IN A SINGLE OPENING.
6.

ALLOWABLE PRESSURES & SIZES ON MULLED ASSEMBLIES SHALL BE LIMITED TO THE LESSER DESIGN PRESSURE AND SIZES OF THE APPROVED MULLION AND INDIVIDUAL UNIT INSTALLATION.
7.

WHEN ADJACENT WINDOWS DO NOT USE SILL ANCHORS TWO WAY DESIGN PRESSURES MUST BE USED.



ONE-WAY MULLION DIAGRAMS

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



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE:

9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)
ONE WAY DESIGN PRESSURE TABLE
WOOD, STEEL, ALUM., CONC.

PREPARED BY:

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SHEET:

4

OF 8

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 9000 SERIES MULLION - ONE WAY - INSTALLATION TO CMU																								
L - MULL LENGTH (IN)	W - TRIBUTARY WIDTH (IN)																							
	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.625	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0	
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
51.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
57.0	100.0	100.0	100.0	98.5	95.2	92.8	90.9	89.6	88.9	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
60.0	100.0	100.0	95.2	91.2	87.9	85.3	83.3	81.8	80.8	80.2	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
63.0	100.0	93.8	88.9	84.9	81.6	79.0	76.9	75.3	74.1	73.2	72.7	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6
66.0	94.1	88.2	83.3	79.4	76.2	73.6	71.4	69.7	68.4	67.4	66.7	66.3	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
69.0	88.9	83.1	78.4	74.6	71.4	68.8	66.7	64.9	63.5	62.4	61.5	61.0	60.6	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
72.0	84.2	78.6	74.1	70.3	67.2	64.6	62.5	60.7	59.3	58.1	57.1	56.4	55.9	55.7	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
75.0	80.0	74.6	70.2	66.5	63.5	61.0	58.8	57.0	55.6	54.3	53.3	52.5	51.8	51.5	51.3	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	51.2
78.0	76.2	71.0	66.7	63.1	60.2	57.7	55.6	53.8	52.3	51.0	50.0	49.2	48.4	48.0	47.6	47.4	47.3	47.3	47.3	47.3	47.3	47.3	47.3	47.3
81.0	72.7	67.7	63.5	60.0	57.1	54.7	52.6	50.9	49.4	48.1	47.1	46.2	45.3	44.9	44.4	44.1	44.0	43.9	43.9	43.9	43.9	43.9	43.9	43.9
84.0	69.6	64.6	60.6	57.2	54.4	52.0	50.0	48.3	46.8	45.5	44.4	43.5	42.6	42.2	41.7	41.3	41.0	40.9	40.8	40.8	40.8	40.8	40.8	40.8
87.0	66.7	61.9	58.0	54.7	51.9	49.6	47.6	45.9	44.4	43.2	42.1	41.2	40.3	39.8	39.2	38.8	38.5	38.2	38.1	38.0	38.0	38.0	38.0	38.0
90.0	64.0	59.4	55.6	52.4	49.7	47.4	45.5	43.8	42.3	41.1	40.0	39.1	38.1	37.6	37.0	36.6	36.2	35.9	35.7	35.6	35.6	35.6	35.6	35.6
93.0	61.5	57.0	53.3	50.2	47.6	45.4	43.5	41.8	40.4	39.2	38.1	37.2	36.2	35.7	35.1	34.6	34.2	33.9	33.6	33.4	33.3	33.3	33.3	33.3
96.0	59.3	54.9	51.3	48.3	45.7	43.5	41.7	40.1	38.6	37.4	36.4	35.4	34.5	33.9	33.3	32.8	32.4	32.0	31.7	31.5	31.4	31.3	31.3	31.3
97.92	57.9	53.6	50.1	47.1	44.6	42.4	40.6	39.0	37.6	36.4	35.3	34.4	33.5	32.9	32.3	31.8	31.3	31.0	30.7	30.4	30.2	30.1	30.1	30.0
99.0	57.1	52.9	49.4	46.4	44.0	41.8	40.0	38.4	37.0	35.8	34.8	33.9	32.9	32.4	31.7	31.2	30.8	30.4	30.1	29.8	29.6	29.5	29.5	29.4
102.0	55.2	51.0	47.6	44.8	42.3	40.3	38.5	36.9	35.6	34.4	33.3	32.4	31.5	30.9	30.3	29.8	29.3	28.8	28.3	27.9	27.6	27.4	27.4	27.2
105.0	53.3	49.3	46.0	43.2	40.8	38.8	37.0	35.5	34.2	33.0	32.0	31.1	30.1	29.4	28.6	27.9	27.3	26.8	26.3	25.9	25.6	25.3	25.3	25.1
108.0	51.6	47.7	44.4	41.7	39.4	37.4	35.7	34.2	32.9	31.8	30.5	29.4	28.2	27.5	26.8	26.1	25.5	25.0	24.5	24.1	23.7	23.5	23.5	23.2
111.0	50.0	46.2	43.0	40.4	38.1	36.1	34.1	32.4	31.0	29.7	28.5	27.5	26.4	25.8	25.1	24.4	23.9	23.3	22.9	22.5	22.1	21.8	21.8	21.6
114.0	48.0	43.9	40.5	37.7	35.2	33.2	31.4	29.8	28.4	27.2	26.2	25.2	24.2	23.6	23.0	22.4	21.8	21.4	21.0	20.6	20.3	20.0	20.0	19.8
117.0	44.3	40.5	37.4	34.8	32.5	30.6	28.9	27.5	26.2	25.1	24.1	23.2	22.2	21.7	21.1	20.5	20.0	19.6	19.2	18.8	18.5	18.3	18.3	18.0
120.0	41.0	37.5	34.6	32.1	30.1	28.3	26.7	25.4	24.2	23.1	22.2	21.3	20.5	19.9	19.4	18.8	18.4	17.9	17.6	17.2	16.9	16.7	16.7	16.4

TABLE NOTES:

1.

SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 3 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
2.

FOR DIMENSIONS INTERMEDIATE ON THE VALUES SHOWN IN THE TABLES REFER TO THE LARGER VALUE.
3.

ANCHOR AND SUBSTRATE REQUIREMENTS:

•

CMU: 1/4" ELCO AGGRE-GATOR

••

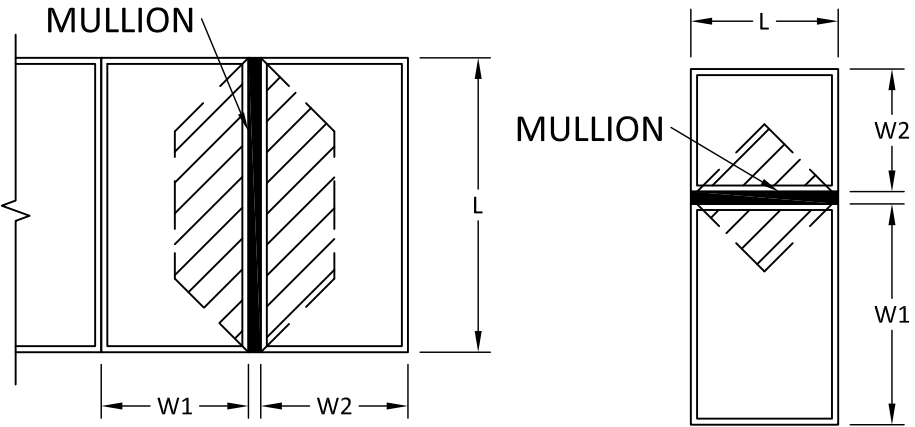
CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 2" & EDGE DISTANCE OF 2.5". GROUT FILLED CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
4.

READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5.

CHART IS NOT LIMITED TO TWO WINDOW UNITS IN A SINGLE OPENING, DESIGN LOAD CAPACITIES APPLY TO ANY NUMBER OF WINDOW UNITS OF SIZES LISTED ON CHART IN A SINGLE OPENING.
6.

ALLOWABLE PRESSURES & SIZES ON MULLED ASSEMBLIES SHALL BE LIMITED TO THE LESSER DESIGN PRESSURE AND SIZES OF THE APPROVED MULLION AND INDIVIDUAL UNIT INSTALLATION.
7.

WHEN ADJACENT WINDOWS DO NOT USE SILL ANCHORS TWO WAY DESIGN PRESSURES MUST BE USED.



ONE-WAY MULLION DIAGRAMS

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



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE:
9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)

ONE WAY DESIGN PRESSURE TABLE
CMU

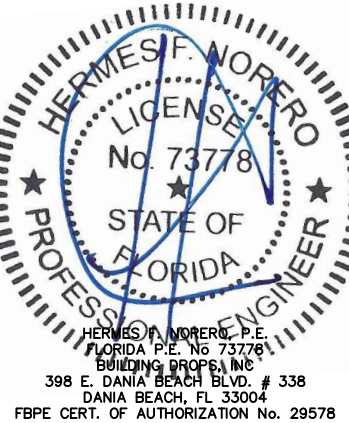
PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DWG # UPDATE	SM	10.29.19
2020 FBC UPDATE	NUS	09.17.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL29827

DATE: 03.14.2019

DWG. BY:
SM

CHK. BY:
HFN

SCALE: NTS

DWG. #: SWD049

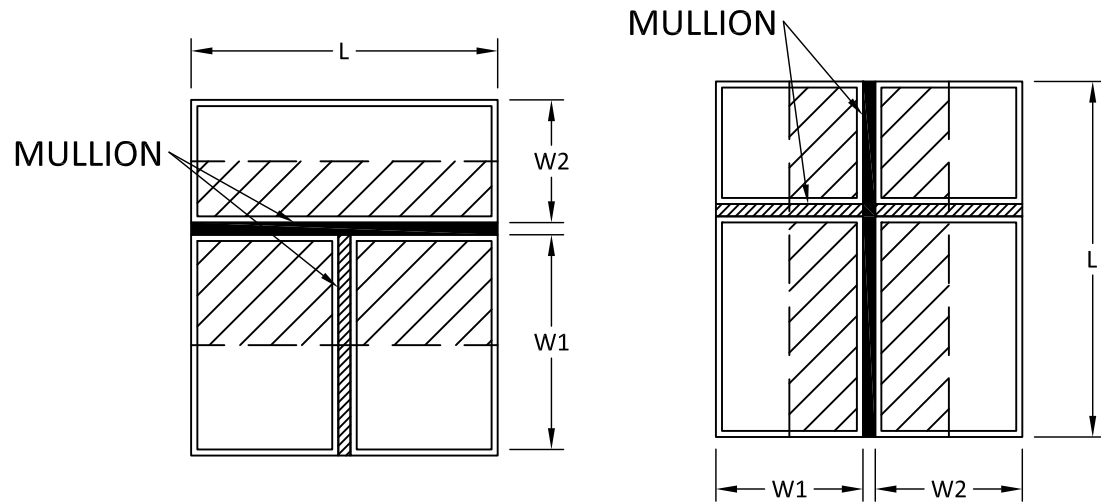
SHEET:

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 9000 SERIES MULLION - TWO WAY - INSTALLATION TO WOOD, STEEL, ALUMINUM OR CONCRETE

L - MULL LENGTH (IN)	W - TRIBUTARY WIDTH (IN)																						
	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.625	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0
48.0	100.0	100.0	100.0	100.0	97.2	90.8	85.1	80.1	75.6	71.6	68.1	64.8	61.3	59.2	56.7	54.5	52.4	50.4	48.6	46.9	45.4	43.9	42.5
51.0	100.0	100.0	100.0	98.6	91.5	85.4	80.1	75.4	71.2	67.4	64.1	61.0	57.7	55.7	53.4	51.2	49.3	47.5	45.8	44.2	42.7	41.3	40.0
54.0	100.0	100.0	100.0	93.1	86.4	80.7	75.6	71.2	67.2	63.7	60.5	57.6	54.5	52.6	50.4	48.4	46.5	44.8	43.2	41.7	40.3	39.0	37.8
57.0	100.0	100.0	95.5	88.2	81.9	76.4	71.6	67.4	63.7	60.3	57.3	54.6	51.6	49.8	47.8	45.9	44.1	42.5	40.9	39.5	38.2	37.0	35.8
60.0	100.0	99.0	90.8	83.8	77.8	72.6	68.1	64.1	60.5	57.3	54.5	51.9	49.0	47.3	45.4	43.6	41.9	40.3	38.9	37.6	36.3	35.1	34.0
63.0	100.0	94.3	86.4	79.8	74.1	69.1	64.8	61.0	57.6	54.6	51.9	49.4	46.7	45.1	43.2	41.5	39.9	38.4	37.0	35.8	34.6	33.5	32.4
66.0	99.0	90.0	82.5	76.2	70.7	66.0	61.9	58.2	55.0	52.1	49.5	47.1	44.6	43.0	41.3	39.6	38.1	36.7	35.4	34.1	33.0	31.9	30.9
69.0	94.7	86.1	78.9	72.8	67.6	63.1	59.2	55.7	52.6	49.8	47.3	45.1	42.6	41.2	39.5	37.9	36.4	35.1	33.8	32.7	31.6	30.5	29.6
72.0	90.8	82.5	75.6	69.8	64.8	60.5	56.7	53.4	50.4	47.8	45.4	43.2	40.9	39.5	37.8	36.3	34.9	33.6	32.4	31.3	30.3	29.3	28.4
75.0	87.1	79.2	72.6	67.0	62.2	58.1	54.5	51.2	48.4	45.9	43.6	41.5	39.2	37.9	36.3	34.8	33.5	32.3	31.1	30.0	29.0	28.1	27.2
78.0	83.8	76.2	69.8	64.4	59.8	55.8	52.4	49.3	46.5	44.1	41.9	39.9	37.7	36.4	34.9	33.5	32.2	31.0	29.9	28.9	27.9	27.0	26.2
81.0	80.7	73.3	67.2	62.1	57.6	53.8	50.4	47.5	44.8	42.5	40.3	38.4	36.3	35.1	33.6	32.3	31.0	29.9	28.8	27.8	26.9	26.0	25.2
84.0	77.8	70.7	64.8	59.8	55.6	51.9	48.6	45.8	43.2	40.9	38.9	37.0	35.0	33.8	32.4	31.1	29.9	28.8	27.8	26.8	25.9	25.1	24.3
87.0	75.1	68.3	62.6	57.8	53.6	50.1	46.9	44.2	41.7	39.5	37.6	35.8	33.8	32.7	31.3	30.0	28.9	27.8	26.8	25.9	25.0	24.2	23.5
90.0	72.6	66.0	60.5	55.8	51.9	48.4	45.4	42.7	40.3	38.2	36.3	34.6	32.7	31.6	30.3	29.0	27.9	26.9	25.9	25.0	24.2	23.4	22.7
93.0	70.3	63.9	58.5	54.0	50.2	46.8	43.9	41.3	39.0	37.0	35.1	33.5	31.6	30.5	29.3	28.1	27.0	26.0	25.1	24.2	23.4	22.7	22.0
96.0	68.1	61.9	56.7	52.4	48.6	45.4	42.5	40.0	37.8	35.8	34.0	32.4	30.6	29.6	28.4	27.2	26.2	25.2	24.3	23.5	22.7	22.0	21.3
97.92	66.6	60.6	55.5	51.2	47.6	44.4	41.6	39.2	37.0	35.1	33.3	31.7	30.0	29.0	27.8	26.6	25.6	24.7	23.8	23.0	22.2	21.5	20.8
99.0	64.5	58.6	53.7	49.6	46.0	43.0	40.3	37.9	35.8	33.9	32.2	30.7	29.0	28.0	26.9	25.8	24.8	23.9	23.0	22.2	21.5	20.8	20.1
102.0	58.9	53.6	49.1	45.3	42.1	39.3	36.8	34.7	32.7	31.0	29.5	28.1	26.5	25.6	24.6	23.6	22.7	21.8	21.1	20.3	19.6	19.0	18.4
105.0	54.0	49.1	45.0	41.6	38.6	36.0	33.8	31.8	30.0	28.4	27.0	25.7	24.3	23.5	22.5	21.6	20.8	20.0	19.3	18.6	18.0	17.4	16.9
108.0	49.7	45.1	41.4	38.2	35.5	33.1	31.0	29.2	27.6	26.1	24.8	23.6	22.4	21.6	20.7	19.9	19.1	18.4	17.7	17.1	16.6	16.0	15.5
111.0	45.7	41.6	38.1	35.2	32.7	30.5	28.6	26.9	25.4	24.1	22.9	21.8	20.6	19.9	19.1	18.3	17.6	16.9	16.3	15.8	15.2	14.8	14.3
114.0	42.2	38.4	35.2	32.5	30.2	28.1	26.4	24.8	23.5	22.2	21.1	20.1	19.0	18.4	17.6	16.9	16.2	15.6	15.1	14.6	14.1	13.6	13.2
117.0	39.1	35.5	32.5	30.0	27.9	26.0	24.4	23.0	21.7	20.6	19.5	18.6	17.6	17.0	16.3	15.6	15.0	14.5	13.9	13.5	13.0	12.6	12.2
120.0	36.2	32.9	30.2	27.8	25.9	24.1	22.6	21.3	20.1	19.1	18.1	17.2	16.3	15.7	15.1	14.5	13.9	13.4	12.9	12.5	12.1	11.7	11.3

TABLE NOTES:

- SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 3 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
- FOR DIMENSIONS INTERMEDIATE ON THE VALUES SHOWN IN THE TABLES REFER TO THE LARGER VALUE.
- ANCHOR AND SUBSTRATE REQUIREMENTS:
 - WOOD: #8 WOOD SCREWS
 - WOOD ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.5" & EDGE DISTANCE OF 0.75". WOOD SHALL BE MIN. S.G.=0.55.
 - CONCRETE: 1/4" ELCO ULTRACON
 - CONCRETE ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 1.75" & EDGE DISTANCE OF 2.5". CONCRETE SHALL BE MIN. 3000 PSI.
 - METAL: #8 SELF-DRILLING SCREWS (GRADE 5)
 - METAL ANCHORS SHALL HAVE A MIN. (3) THREADS PENETRATION BEYOND METAL STRUCTURE. STEEL SHALL BE MIN. 18 GA. (0.045" THICK) 33 KSI YIELD & ALUMINUM SHALL BE MIN. 0.090" THICK ALUMINUM 6063-T5. WITH MIN. EDGE DISTANCE OF 0.75" FOR BOTH ALUM. AND STEEL.
 - FOR T AND X JOINTS, REFER TO SHEET 3 FOR ASSEMBLY REQUIREMENTS.
- READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
- CHART IS NOT LIMITED TO TWO WINDOW UNITS IN A SINGLE OPENING, DESIGN LOAD CAPACITIES APPLY TO ANY NUMBER OF WINDOW UNITS OF SIZES LISTED ON CHART IN A SINGLE OPENING.
- ALLOWABLE PRESSURES & SIZES ON MULLED ASSEMBLIES SHALL BE LIMITED TO THE LESSER DESIGN PRESSURE AND SIZES OF THE APPROVED MULLION AND INDIVIDUAL UNIT INSTALLATION.
- DESIGN PRESSURES SHOWN IN TABLE ARE APPLICABLE TO THE CONTINUOUS MULLION SHOWN AS A SOLID LINE IN THE DIAGRAMS TO THE RIGHT. MULLIONS SHOWN AS DASHED LINES IN DIAGRAMS AT RIGHT SHALL BE REVIEWED AND RATED USING ONE WAY LOAD DISTRIBUTION TABLES.
- WHEN ADJACENT WINDOWS DO NOT USE SILL ANCHORS TWO WAY DESIGN PRESSURES MUST BE USED.



TWO-WAY MULLION DIAGRAMS

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



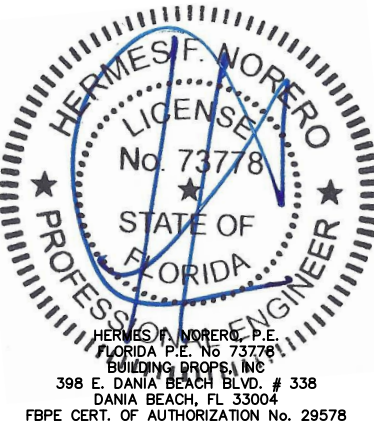
171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE:
9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)
TWO WAY DESIGN PRESSURE TABLE
WOOD, STEEL, ALUM., CONC.

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DWG # UPDATE	SM	10.29.19
2020 FBC UPDATE	NUS	09.17.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:
FL29827

DATE: **03.14.2019**

DWG. BY: **SM** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **SWD049**

SHEET:
6
OF 8

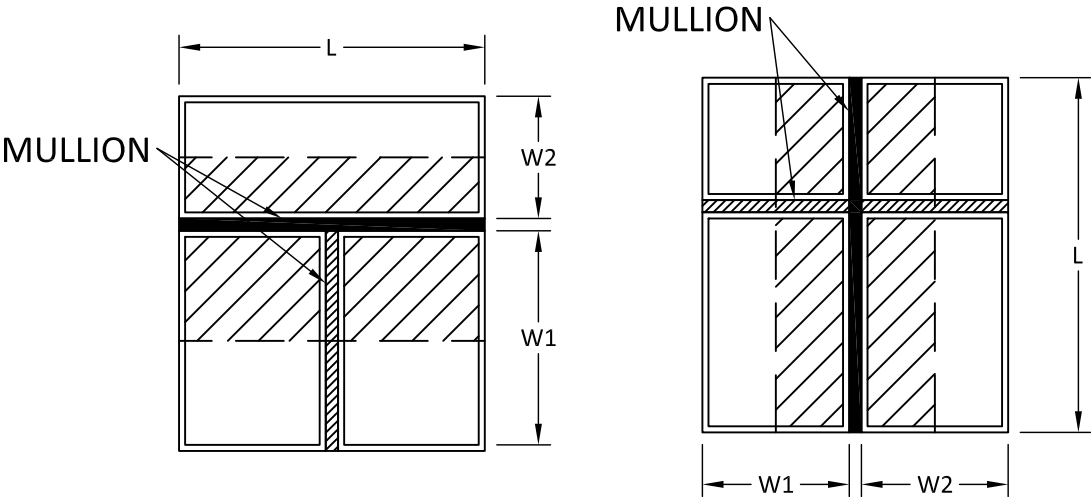
MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 9000 SERIES MULLION - TWO WAY - INSTALLATION TO CMU																							
L - MULL LENGTH (IN)	W - TRIBUTARY WIDTH (IN)																						
	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.625	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0
48.0	100.0	100.0	99.4	91.7	85.2	79.5	74.5	70.1	66.3	62.8	59.6	56.8	53.7	51.8	49.7	47.7	45.9	44.2	42.6	41.1	39.8	38.5	37.3
51.0	100.0	100.0	93.5	86.3	80.2	74.8	70.1	66.0	62.4	59.1	56.1	53.4	50.5	48.8	46.8	44.9	43.2	41.6	40.1	38.7	37.4	36.2	35.1
54.0	100.0	96.4	88.3	81.5	75.7	70.7	66.3	62.4	58.9	55.8	53.0	50.5	47.7	46.1	44.2	42.4	40.8	39.3	37.9	36.6	35.3	34.2	33.1
57.0	100.0	91.3	83.7	77.2	71.7	66.9	62.8	59.1	55.8	52.9	50.2	47.8	45.2	43.7	41.8	40.2	38.6	37.2	35.9	34.6	33.5	32.4	31.4
60.0	95.4	86.7	79.5	73.4	68.1	63.6	59.6	56.1	53.0	50.2	47.7	45.4	43.0	41.5	39.8	38.2	36.7	35.3	34.1	32.9	31.8	30.8	29.8
63.0	90.9	82.6	75.7	69.9	64.9	60.6	56.8	53.4	50.5	47.8	45.4	43.3	40.9	39.5	37.9	36.3	34.9	33.7	32.4	31.3	30.3	29.3	28.4
66.0	86.7	78.8	72.3	66.7	61.9	57.8	54.2	51.0	48.2	45.6	43.4	41.3	39.1	37.7	36.1	34.7	33.4	32.1	31.0	29.9	28.9	28.0	27.1
69.0	83.0	75.4	69.1	63.8	59.3	55.3	51.8	48.8	46.1	43.7	41.5	39.5	37.4	36.1	34.6	33.2	31.9	30.7	29.6	28.6	27.7	26.8	25.9
72.0	79.5	72.3	66.3	61.2	56.8	53.0	49.7	46.8	44.2	41.8	39.8	37.9	35.8	34.6	33.1	31.8	30.6	29.4	28.4	27.4	26.5	25.6	24.8
75.0	76.3	69.4	63.6	58.7	54.5	50.9	47.7	44.9	42.4	40.2	38.2	36.3	34.4	33.2	31.8	30.5	29.4	28.3	27.3	26.3	25.4	24.6	23.9
78.0	73.4	66.7	61.2	56.4	52.4	48.9	45.9	43.2	40.8	38.6	36.7	34.9	33.0	31.9	30.6	29.4	28.2	27.2	26.2	25.3	24.5	23.7	22.9
81.0	70.7	64.2	58.9	54.4	50.5	47.1	44.2	41.6	39.3	37.2	35.3	33.7	31.8	30.7	29.4	28.3	27.2	26.2	25.2	24.4	23.6	22.8	22.1
84.0	68.1	61.9	56.8	52.4	48.7	45.4	42.6	40.1	37.9	35.9	34.1	32.4	30.7	29.6	28.4	27.3	26.2	25.2	24.3	23.5	22.7	22.0	21.3
87.0	65.8	59.8	54.8	50.6	47.0	43.9	41.1	38.7	36.6	34.6	32.9	31.3	29.6	28.6	27.4	26.3	25.3	24.4	23.5	22.7	21.9	21.2	20.6
90.0	63.6	57.8	53.0	48.9	45.4	42.4	39.8	37.4	35.3	33.5	31.8	30.3	28.6	27.7	26.5	25.4	24.5	23.6	22.7	21.9	21.2	20.5	19.9
93.0	61.5	56.0	51.3	47.3	44.0	41.0	38.5	36.2	34.2	32.4	30.8	29.3	27.7	26.8	25.6	24.6	23.7	22.8	22.0	21.2	20.5	19.9	19.2
96.0	59.6	54.2	49.7	45.9	42.6	39.8	37.3	35.1	33.1	31.4	29.8	28.4	26.8	25.9	24.8	23.9	22.9	22.1	21.3	20.6	19.9	19.2	18.6
97.92	58.5	53.1	48.7	45.0	41.8	39.0	36.5	34.4	32.5	30.8	29.2	27.8	26.3	25.4	24.4	23.4	22.5	21.7	20.9	20.2	19.5	18.9	18.3
99.0	57.8	52.6	48.2	44.5	41.3	38.5	36.1	34.0	32.1	30.4	28.9	27.5	26.0	25.1	24.1	23.1	22.2	21.4	20.6	19.9	19.3	18.7	18.1
102.0	56.1	51.0	46.8	43.2	40.1	37.4	35.1	33.0	31.2	29.5	28.1	26.7	25.3	24.4	23.4	22.4	21.6	20.8	20.0	19.4	18.7	18.1	17.5
105.0	54.0	49.1	45.0	41.6	38.6	36.0	33.8	31.8	30.0	28.4	27.0	25.7	24.3	23.5	22.5	21.6	20.8	20.0	19.3	18.6	18.0	17.4	16.9
108.0	49.7	45.1	41.4	38.2	35.5	33.1	31.0	29.2	27.6	26.1	24.8	23.6	22.4	21.6	20.7	19.9	19.1	18.4	17.7	17.1	16.6	16.0	15.5
111.0	45.7	41.6	38.1	35.2	32.7	30.5	28.6	26.9	25.4	24.1	22.9	21.8	20.6	19.9	19.1	18.3	17.6	16.9	16.3	15.8	15.2	14.8	14.3
114.0	42.2	38.4	35.2	32.5	30.2	28.1	26.4	24.8	23.5	22.2	21.1	20.1	19.0	18.4	17.6	16.9	16.2	15.6	15.1	14.6	14.1	13.6	13.2
117.0	39.1	35.5	32.5	30.0	27.9	26.0	24.4	23.0	21.7	20.6	19.5	18.6	17.6	17.0	16.3	15.6	15.0	14.5	13.9	13.5	13.0	12.6	12.2
120.0	36.2	32.9	30.2	27.8	25.9	24.1	22.6	21.3	20.1	19.1	18.1	17.2	16.3	15.7	15.1	14.5	13.9	13.4	12.9	12.5	12.1	11.7	11.3

TABLE NOTES:

1. SEE SHEET 1 FOR INSTRUCTIONS ON USING TABLES. SEE SHEETS 2 AND 3 FOR TYPICAL INSTALLATION METHODS & CLIP DETAILS.
2. FOR DIMENSIONS INTERMEDIATE ON THE VALUES SHOWN IN THE TABLES REFER TO THE LARGER VALUE.
3. ANCHOR AND SUBSTRATE REQUIREMENTS:

• CMU: 1/4" ELCO AGGRE-GATOR

•• CMU ANCHORS SHALL HAVE A MIN. EMBEDMENT OF 2" & EDGE DISTANCE OF 2.5". GROUT FILLED CMU SHALL BE MEDIUM WEIGHT CONFORMING TO ASTM C 90.
4. READ WINDOW WIDTH AND MULL SPAN IN INCHES. DESIGN PRESSURE VALUES ON THIS CHART ARE POSITIVE AND NEGATIVE PSF.
5. CHART IS NOT LIMITED TO TWO WINDOW UNITS IN A SINGLE OPENING, DESIGN LOAD CAPACITIES APPLY TO ANY NUMBER OF WINDOW UNITS OF SIZES LISTED ON CHART IN A SINGLE OPENING.
6. ALLOWABLE PRESSURES & SIZES ON MULLED ASSEMBLIES SHALL BE LIMITED TO THE LESSER DESIGN PRESSURE AND SIZES OF THE APPROVED MULLION AND INDIVIDUAL UNIT INSTALLATION.
7. DESIGN PRESSURES SHOWN IN TABLE ARE APPLICABLE TO THE CONTINUOUS MULLION SHOWN AS A SOLID LINE IN THE DIAGRAMS TO THE RIGHT. MULLIONS SHOWN AS DASHED LINES IN DIAGRAMS AT RIGHT SHALL BE REVIEWED AND RATED USING ONE WAY LOAD DISTRIBUTION TABLES.
8. WHEN ADJACENT WINDOWS DO NOT USE SILL ANCHORS TWO WAY DESIGN PRESSURES MUST BE USED.



TWO-WAY MULLION DIAGRAMS

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



171 JET SERVICES WAY
DOTHAN, AL 36303
PH: (334) 556-1000

TITLE:

9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)

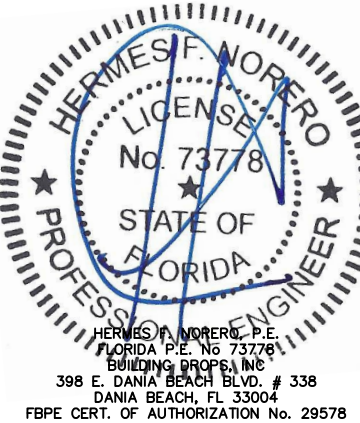
TWO WAY DESIGN PRESSURE TABLE
CMU

PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
DWG # UPDATE	SM	10.29.19
2020 FBC UPDATE	NUS	09.17.20

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL #:

FL29827

DATE: 03.14.2019

DWG. BY: SM

CHK. BY: HFN

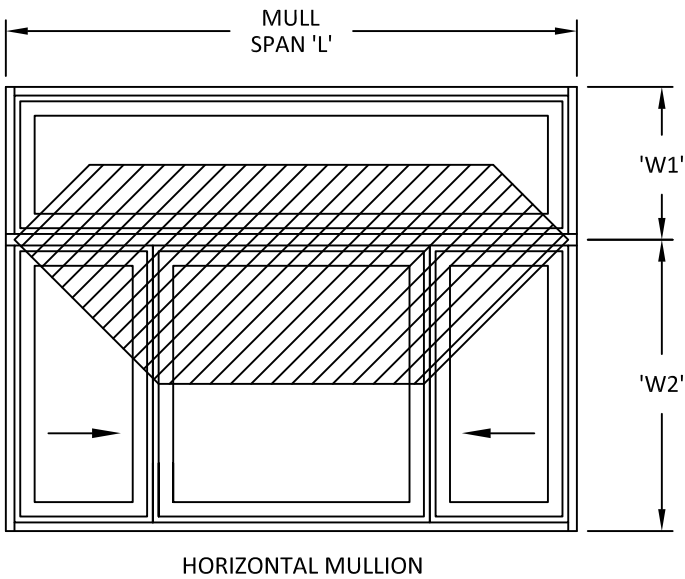
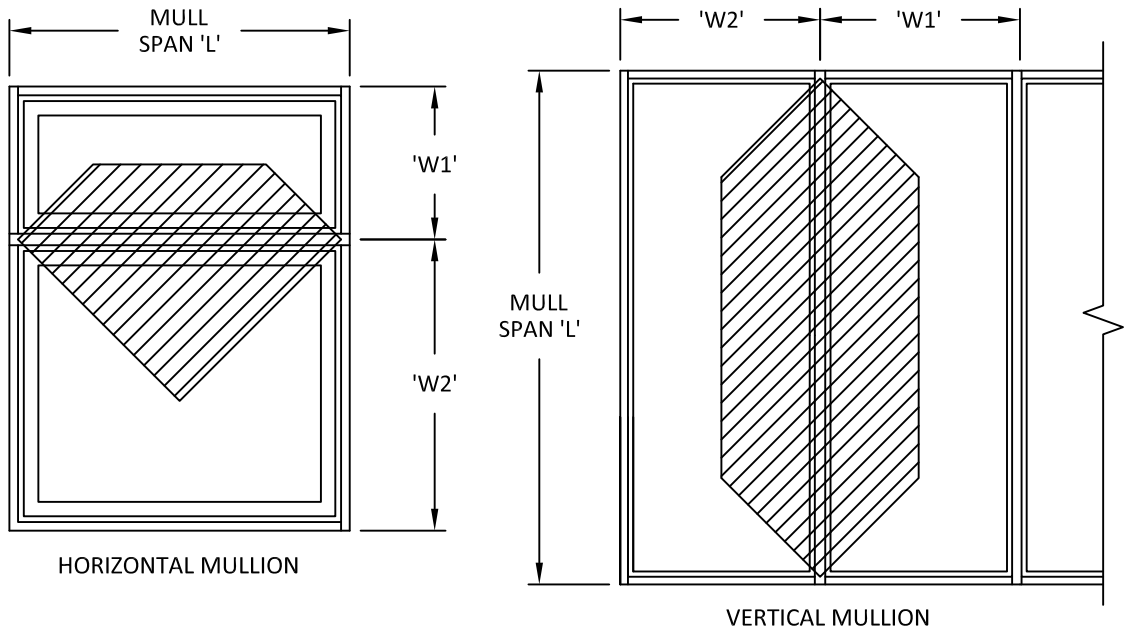
SCALE: NTS

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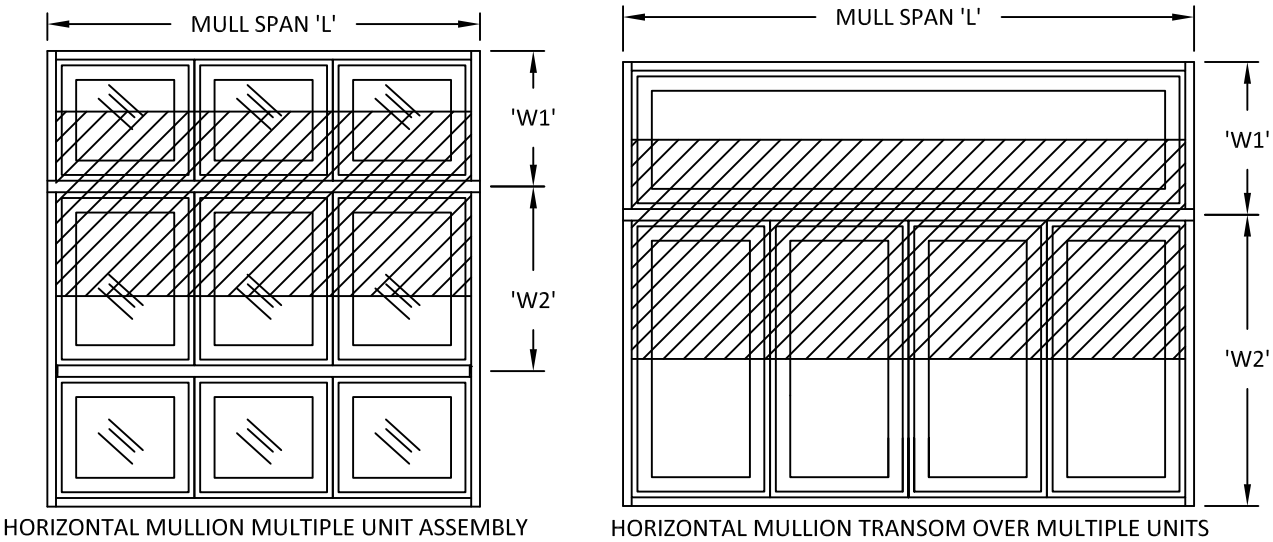
SHEET:

7

EXAMPLES OF ONE-WAY MULLION ASSEMBLIES



EXAMPLES OF TWO-WAY MULLION ASSEMBLIES



- NOTES:
1. WINDOWS AND DOORS SHALL HAVE SEPARATE FBC APPROVAL.
 2. WINDOWS AND DOORS SHALL BE ANCHORED TO ALUMINUM AT 3" FROM CORNERS AND 3" FROM CORNERS 8" O.C. USING #8FH X 1-1/4" SCREWS OF SUFFICIENT LENGTH TO ACHIEVE THREE THREADS PENETRATION BEYOND ALUMINUM WALL.
 3. MULLION DETAILS SHOWN HEREIN ILLUSTRATE MULLION ONLY, AS-TESTED. THE ADDITION OF ANY ACCESSORY COVERS OR TRIMS SHALL BE ALLOWED.



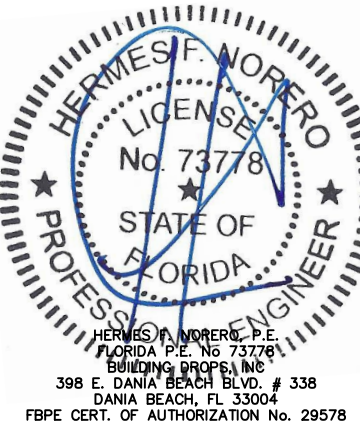
171 JET SERVICES WAY
DOTHAN, AL 36303
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TITLE: 9000 SERIES ALUMINUM MULLION
(WIND ZONE 3)(IMPACT)
EXAMPLES OF ONE-WAY AND
TWO-WAY ASSEMBLIES

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FL #:	FL29827
DATE:	03.14.2019
DWG. BY:	CHK. BY:
SM	HFN
SCALE:	NTS
DWG. #:	SWD049
SHEET:	8
	OF 8