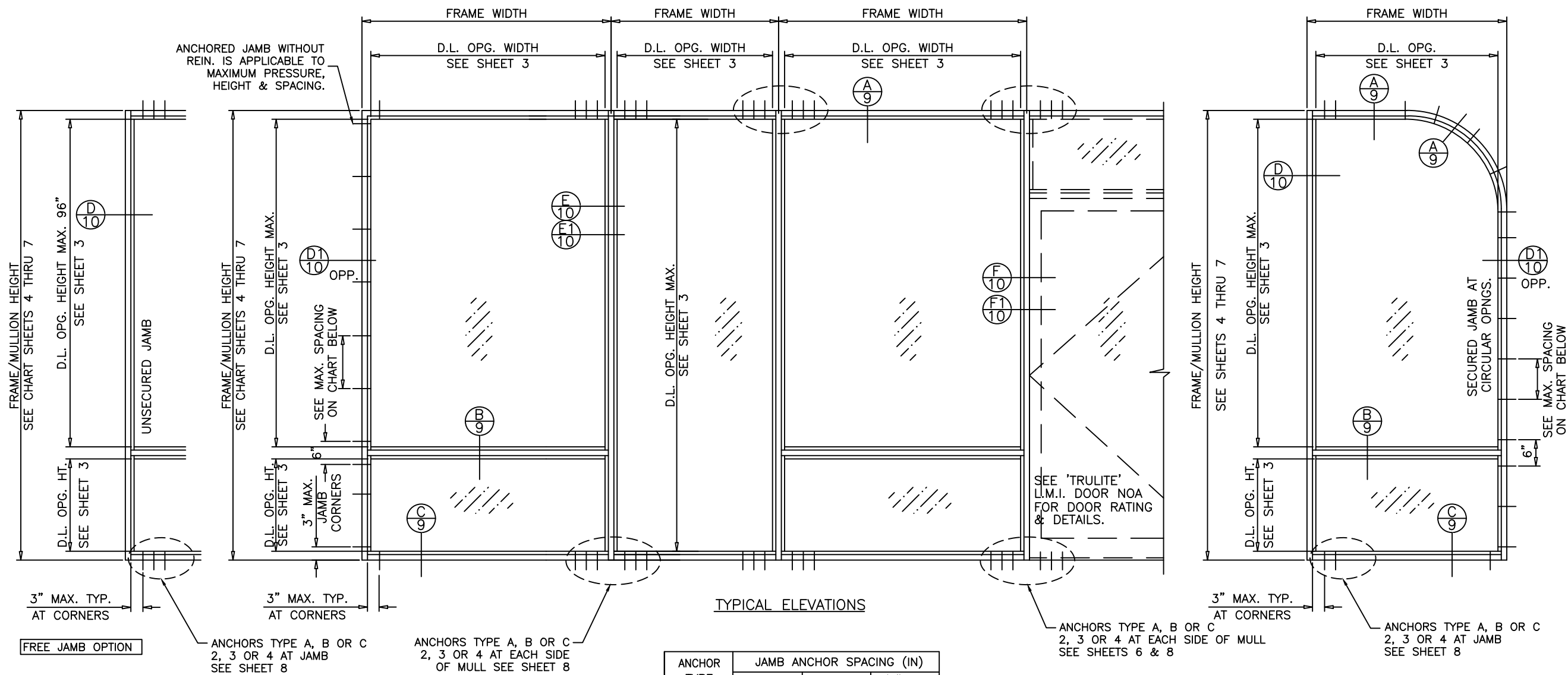




IMPACT WALL 3000/L-3000 ALUMINUM WINDOW WALL SYSTEM INSIDE OR OUTSIDE GLAZED

WINDOW WALL SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS.

CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE 7TH EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16, MULTIPLY BY 0.6, SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THE DOCUMENT.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2020-7TH EDITION FLORIDA BUILDING CODE SECTION AS APPLICABLE.

ANCHOR TYPE	JAMB ANCHOR SPACING (IN)		
	SUBSTRATE	1/4" SHIM	3/8" SHIM
A	WOOD	10"	8"
B	BLOCK	6"	6"
B	CONCRETE	12"	8"
C	METAL	12"	8"

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
- STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4 THRU 7 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHART ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

LIMITATIONS OF USE

- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

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PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027

P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

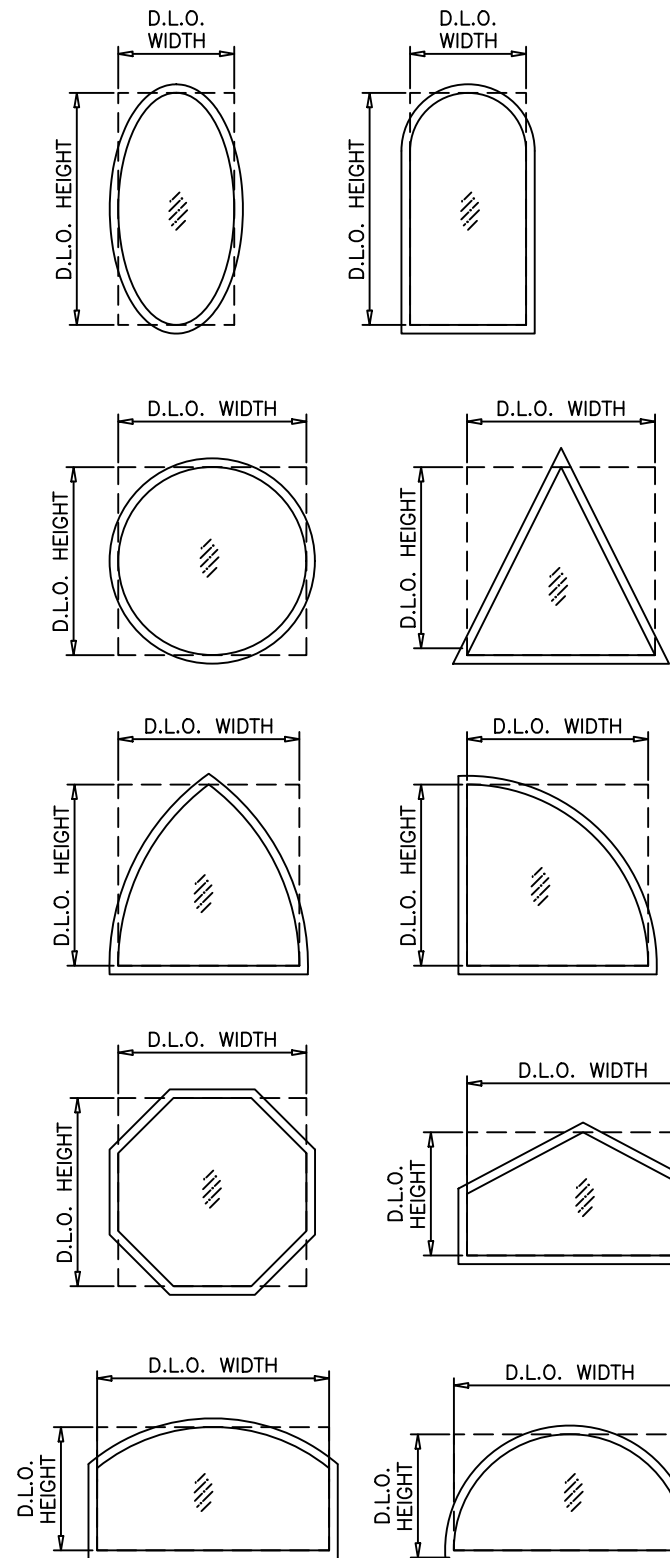
DRAWN: James

DATE: 09.23.2021

DWG: AD11-20

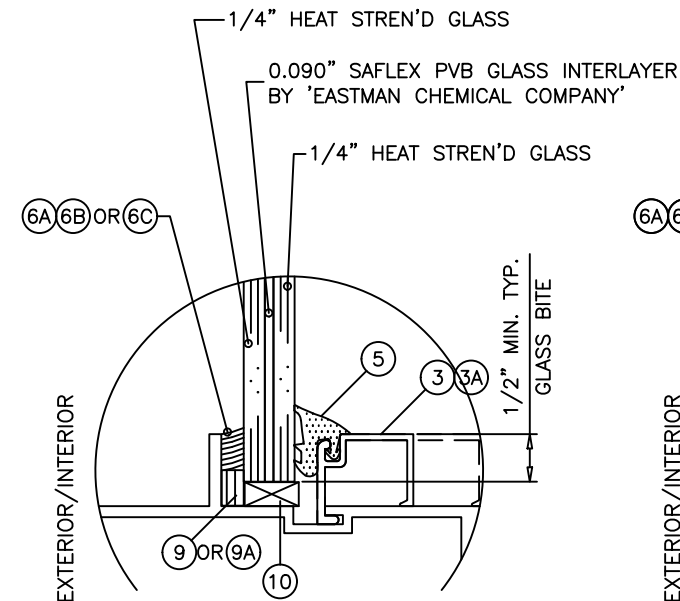
DRAWING No:

1 OF 11

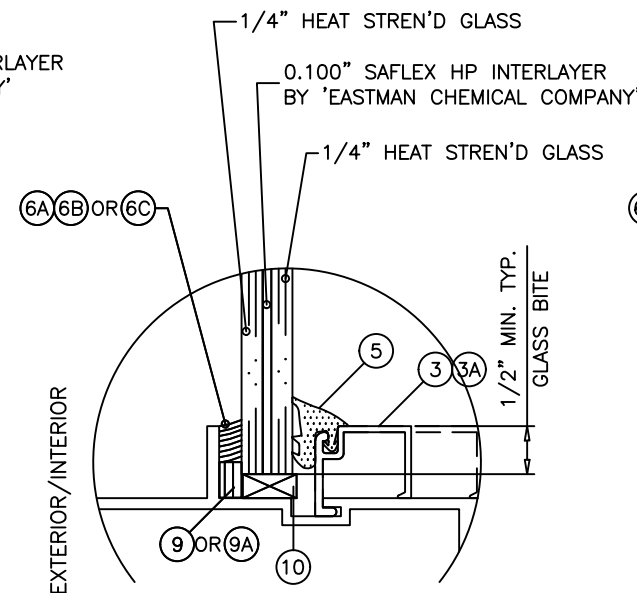


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.

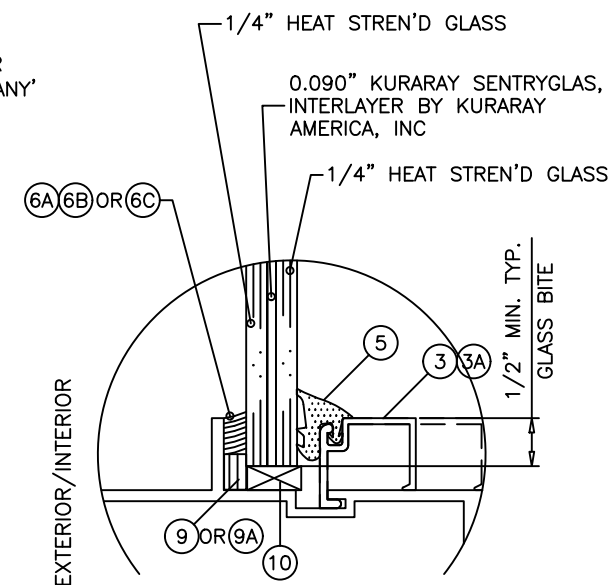
FOR ALTERNATE SHAPES LIMIT MAX. LOADS TO ± 90.0 PSF
 SEE SHEET 3 FOR D.L.O. WIDTHS AND HEIGHTS.
 USE ANCHOR TYPES A, B OR C AT 4" FROM FRAME ENDS AND 12" O.C. MAX. SPACING.



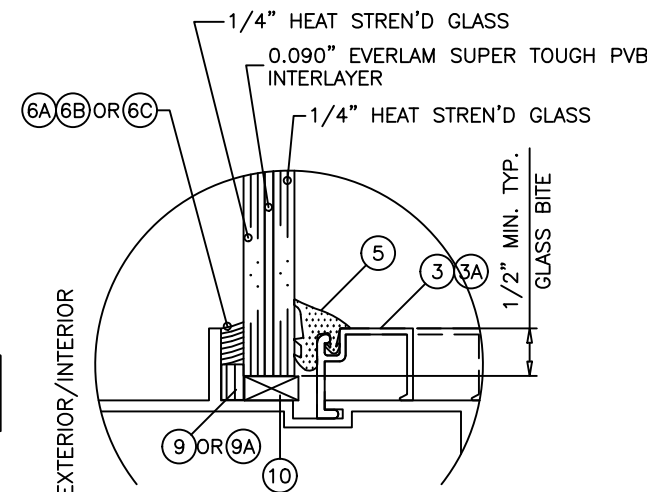
GLASS TYPE 'A'



GLASS TYPE 'B'

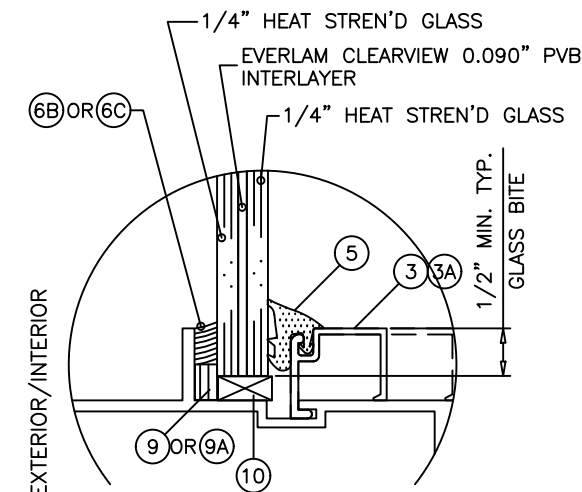


GLASS TYPE 'C'



GLASS TYPE 'D'

GLAZING OPTIONS
 9/16" OVERALL LAMINATED GLASS



GLASS TYPE 'E'

GLAZING OPTIONS
 9/16" OVERALL LAMINATED GLASS

SILICONE SEALANT OPTIONS:
 (6A) DOWSIL 995 OR DOWSIL 983
 (6B) GE ULTRAGLAZE SSG4000
 (6C) TREMCO PROGLAZE SSG

GLAZING OPTION

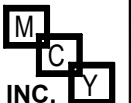
PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
 PRODUCT SERIES

REV#	DATE/REMARKS
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December 16, 2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James
 DATE: 09.23.2021
 DWG: AD11-20

DRAWING No:
2 OF 11

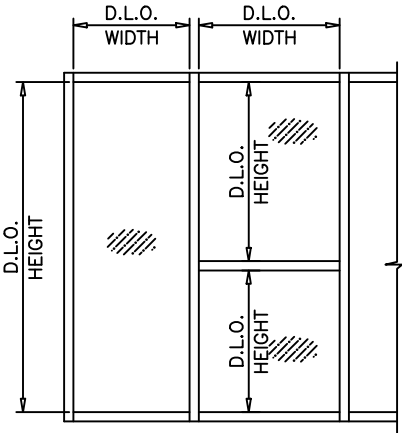
DESIGN LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	87"	87.0	100.0	100.0	+70/–85	+65/–75
39"		87.0	100.0	100.0	+70/–85	+65/–75
41.5"		87.0	100.0	100.0	+70/–85	+65/–75
45"		87.0	100.0	100.0	+70/–85	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		87.0	100.0	100.0	–	–
69"		87.0	100.0	100.0	–	–
72"		–	100.0	–	–	–
36"	90"	87.0	100.0	100.0	+70/–85	+65/–75
39"		87.0	100.0	100.0	+70/–85	+65/–75
42"		87.0	100.0	100.0	+70/–85	–
45"		87.0	100.0	100.0	+70/–85	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		87.0	100.0	100.0	–	–
69"		87.0	100.0	100.0	–	–
72"		–	100.0	–	–	–
36"	92"	87.0	100.0	100.0	+70/–85	+65/–75
39.25"		87.0	100.0	100.0	+70/–85	+65/–75
42"		87.0	100.0	100.0	+70/–85	–
45.25"		87.0	100.0	100.0	+70/–85	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		87.0	100.0	100.0	–	–
69"		87.0	100.0	100.0	–	–
72"		–	100.0	–	–	–
36"	96"	87.0	100.0	100.0	+70/–85	+65/–75
39"		87.0	100.0	100.0	+70/–85	–
42"		87.0	100.0	100.0	+70/–85	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		87.0	100.0	100.0	–	–
69"		87.0	100.0	–	–	–

DESIGN LOAD CAPACITY – PSF						
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'	GLASS TYPE 'E'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	99"	87.0	100.0	100.0	+70/–85	+65/–75
39"		87.0	100.0	100.0	+70/–85	–
42"		87.0	100.0	100.0	+70/–85	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		–	100.0	–	–	–
36"	102"	87.0	100.0	100.0	+70/–85	+65/–75
39"		87.0	100.0	100.0	+70/–85	–
42"		87.0	100.0	100.0	–	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
66"		–	100.0	–	–	–
36"	105"	87.0	100.0	100.0	+70/–85	–
39"		87.0	100.0	100.0	+70/–85	–
42"		87.0	100.0	100.0	–	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		87.0	100.0	100.0	–	–
36"	108"	87.0	100.0	100.0	+70/–85	–
39"		87.0	100.0	100.0	–	–
42"		87.0	100.0	100.0	–	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		–	100.0	–	–	–
36"	108"	87.0	100.0	100.0	+70/–85	–
39"		87.0	100.0	100.0	–	–
42"		87.0	100.0	100.0	–	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		87.0	100.0	100.0	–	–
63"		–	100.0	–	–	–
36"	111"	87.0	100.0	100.0	+70/–85	–
39"		87.0	100.0	100.0	–	–
42"		87.0	100.0	100.0	–	–
45"		87.0	100.0	100.0	–	–
48"		87.0	100.0	100.0	–	–
51"		87.0	100.0	100.0	–	–
54"		87.0	100.0	100.0	–	–
57"		87.0	100.0	100.0	–	–
60"		–	100.0	–	–	–

DESIGN LOAD CAPACITY – PSF					
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	114"	87.0	100.0	100.0	+70/–85
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		87.0	100.0	100.0	–
57"		–	100.0	–	–
36"	117"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		87.0	100.0	100.0	–
57"		–	100	–	–
36"	120"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		87.0	100.0	100.0	–
57"		87.0	100.0	100.0	–
36"	123"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		87.0	100.0	100.0	–
57"		87.0	100.0	100.0	–
36"	126"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		87.0	100.0	100.0	–
57"		–	100.0	–	–
36"	129"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
36"	132"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
51"		87.0	100.0	100.0	–
54"		–	100.0	–	–

DESIGN LOAD CAPACITY – PSF					
NOMINAL DIMS.		GLASS TYPE 'A'	GLASS TYPE 'B'	GLASS TYPE 'C'	GLASS TYPE 'D'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
36"	135"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
36"	138"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	100.0	–
36"	141"	87.0	100.0	100.0	–
39"		87.0	100.0	100.0	–
42"		87.0	100.0	100.0	–
45"		87.0	100.0	100.0	–
48"		87.0	100.0	–	–

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS)





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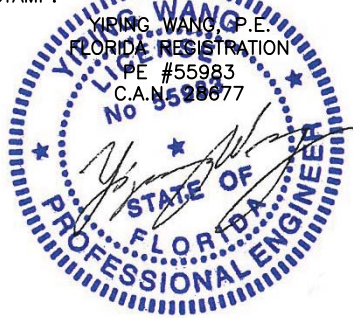
ENGINEER:



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December 16,2021

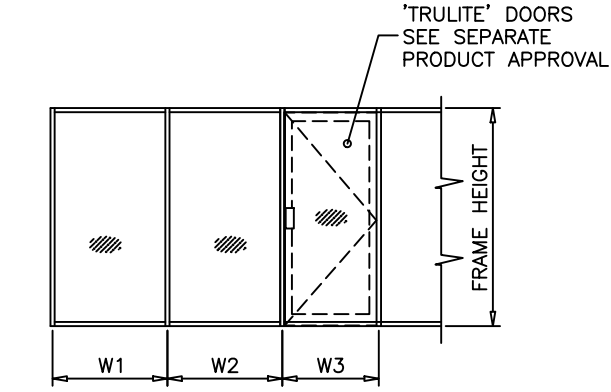
PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James	DRAWING No:
DATE: 09.23.2021	3 OF 11
DWG: AD11–20	

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)
24"	78"	87.5	100.0	100.0
30"		87.5	100.0	100.0
36"		87.5	100.0	100.0
42"		87.5	100.0	100.0
48"		87.5	100.0	100.0
54"		87.5	100.0	100.0
60"		87.5	100.0	100.0
66"		87.5	100.0	100.0
72"		87.5	100.0	100.0
24"	84"	87.5	100.0	100.0
30"		87.5	100.0	100.0
36"		87.5	100.0	100.0
42"		87.5	100.0	100.0
48"		87.5	100.0	100.0
54"		87.5	100.0	100.0
60"		85.6	100.0	100.0
66"		81.3	100.0	100.0
72"		78.5	100.0	100.0
24"	90"	87.5	100.0	100.0
30"		87.5	100.0	100.0
36"		87.5	100.0	100.0
42"		87.5	100.0	100.0
48"		81.7	100.0	100.0
54"		75.0	100.0	100.0
60"		70.1	100.0	100.0
66"		66.5	100.0	100.0
72"		63.9	98.0	99.0
24"	96"	87.5	100.0	100.0
30"		87.5	100.0	100.0
36"		84.4	100.0	100.0
42"		73.9	100.0	100.0
48"		66.3	100.0	100.0
54"		60.7	100.0	100.0
60"		56.4	93.0	94.0
66"		53.2	87.0	89.0
72"		50.8	83.0	84.0
24"	102"	87.5	100.0	100.0
30"		82.6	100.0	100.0
36"		69.9	100.0	100.0
42"		61.0	100.0	100.0
48"		54.6	97.0	98.0
54"		49.8	88.0	89.0
60"		46.1	81.0	82.0
66"		43.3	76.0	77.0

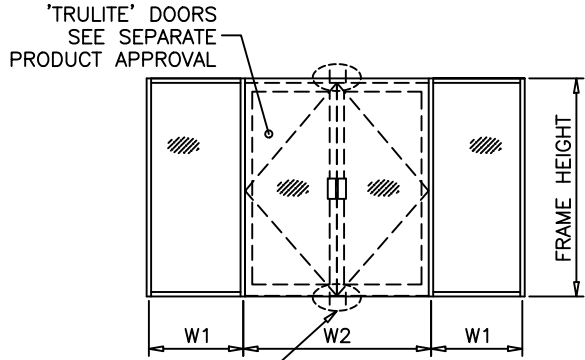
MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)
24"	108"	85.7	100.0	100.0
30"		69.3	100.0	100.0
36"		58.5	100.0	100.0
42"		51.0	96.0	97.0
48"		45.5	86.0	87.0
54"		41.4	78.0	79.0
60"		38.2	71.0	72.0
66"		35.7	66.0	67.0
24"	114"	72.7	100.0	100.0
30"		58.7	100.0	100.0
36"		49.6	99.0	100.0
42"		43.1	86.0	87.0
48"		38.4	76.0	77.0
54"		34.8	69.0	70.0
60"		32.0	63.0	64.0
24"	120"	62.2	100.0	100.0
30"		50.2	100.0	100.0
36"		42.3	88.0	90.0
42"		36.8	76.5	78.0
48"		32.7	68.0	69.0
54"		29.6	61.5	63.0
60"		27.2	56.5	57.0
24"	126"	–	100.0	100.0
30"		–	90.0	97.0
36"		–	76.0	82.0
42"		–	65.5	71.0
48"		–	58.5	63.0
54"		–	52.5	56.0
24"	132"	–	97.0	100.0
30"		–	78.0	88.0
36"		–	65.5	74.0
42"		–	57.0	64.0
48"		–	50.5	57.0
54"		–	45.5	51.0
24"	138"	–	85.0	100.0
30"		–	68.4	81.0
36"		–	57.5	68.0
42"		–	49.5	59.0
48"		–	44.0	52.0
24"	144"	–	74.5	92.0
30"		–	60.0	74.0
36"		–	50.5	62.0
42"		–	43.5	54.0
48"		–	38.5	47.0



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W1 + W2}{2}$ (MULLION)

WIDTH (W) = $\frac{W2 + W3}{2}$ (DJM)



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$

FRAME JAMB DOOR MULLION		INTERMEDIATE MULLION	
Ix IN ⁴	Sx IN ³	Ix IN ⁴	Sx IN ³
ALUM 4.0975	1.8066	ALUM 4.1419	1.8138

WITHOUT REINFORCING

SEE PAGE 5 FOR REINFORCED
MULLION OPTIONS

STEP 3: MULLION LOAD CAPACITIES

Trulite
GLASS & ALUMINUM SOLUTIONS™

<http://www.trulite.com>

403 WEST PARK COURT, STE. 201
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PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

REV#	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

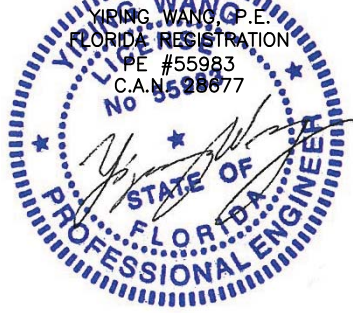
ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027

P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James

DATE: 09.23.2021

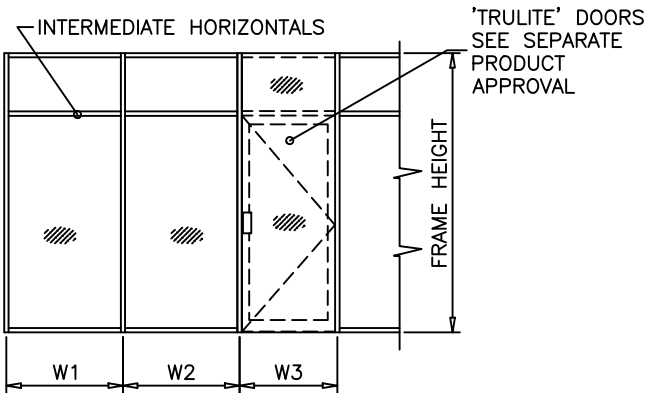
DWG: AD11-20

DRAWING No:

4 OF 11

MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)
24”	78”	87.5	100.0	100.0
30”		87.5	100.0	100.0
36”		87.5	100.0	100.0
42”		87.5	100.0	100.0
48”		87.5	100.0	100.0
54”		87.5	100.0	100.0
60”		82.9	100.0	100.0
66”		75.4	100.0	100.0
72”		69.1	100.0	100.0
24”	84”	87.5	100.0	100.0
30”		87.5	100.0	100.0
36”		87.5	100.0	100.0
42”		87.5	100.0	100.0
48”		87.5	100.0	100.0
54”		79.0	100.0	100.0
60”		71.1	100.0	100.0
66”		64.6	95.0	100.0
72”		59.2	87.0	97.0
24”	90”	87.5	100.0	100.0
30”		87.5	100.0	100.0
36”		87.5	100.0	100.0
42”		83.1	100.0	100.0
48”		72.7	100.0	100.0
54”		64.6	100.0	100.0
60”		58.2	91.0	100.0
66”		52.9	83.0	93.0
72”		48.5	76.0	85.0
24”	96”	87.5	100.0	100.0
30”		87.5	100.0	100.0
36”		79.9	100.0	100.0
42”		68.5	100.0	100.0
48”		59.9	100.0	100.0
54”		53.3	89.0	99.0
60”		47.9	80.0	89.0
66”		43.6	73.0	81.0
72”		39.9	66.0	75.0
24”	102”	87.5	100.0	100.0
30”		79.9	100.0	100.0
36”		66.6	100.0	100.0
42”		57.1	100.0	100.0
48”		50.0	88.0	99.0
54”		44.4	79.0	88.0
60”		40.0	71.0	79.0
66”		36.3	64.0	72.0

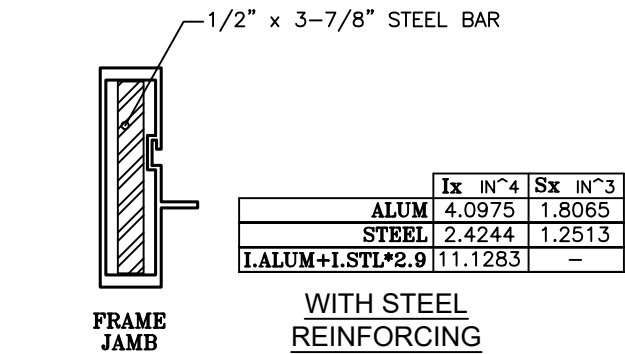
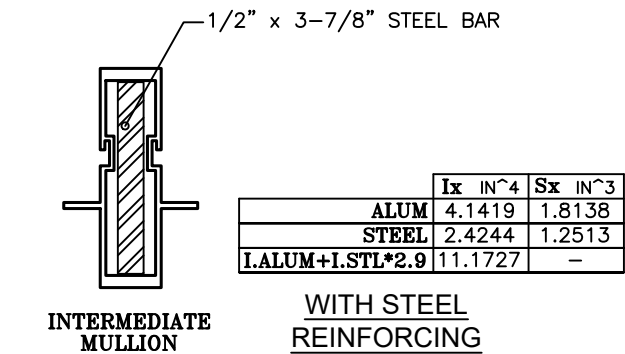
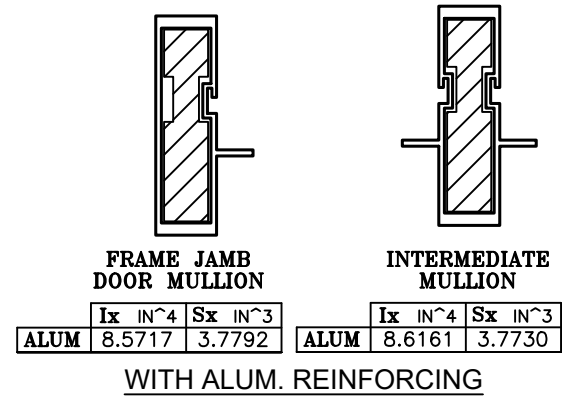
MULLION LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)
24”	108”	84.2	100.0	100.0
30”		67.3	100.0	100.0
36”		56.1	100.0	100.0
42”		48.1	90.0	100.0
48”		42.1	79.0	88.0
54”		37.4	70.0	79.0
60”		33.7	63.0	71.0
66”		30.6	57.0	64.0
24”	114”	71.6	100.0	100.0
30”		57.3	100.0	100.0
36”		47.7	94.0	100.0
42”		40.9	81.0	91.0
48”		35.8	71.0	79.0
54”		31.8	63.0	71.0
60”		28.6	57.0	63.0
24”	120”	61.4	100.0	100.0
30”		49.1	100.0	100.0
36”		40.9	85.0	95.0
42”		35.1	73.0	82.0
48”		30.7	64.0	72.0
54”		27.3	54.0	64.0
60”		24.5	51.0	57.0
24”	126”	–	100.0	100.0
30”		–	88.0	100.0
36”		–	73.5	87.0
42”		–	63.0	74.0
48”		–	55.0	65.0
54”		–	49.0	58.0
24”	132”	–	95.5	100.0
30”		–	76.5	95.0
36”		–	63.5	79.0
42”		–	54.5	68.0
48”		–	48.0	59.0
54”		–	42.5	53.0
24”	138”	–	83.5	100.0
30”		–	67.0	87.0
36”		–	56.0	72.0
42”		–	48.0	62.0
48”		–	42.0	54.0
24”	144”	–	73.5	96.0
30”		–	59.0	77.0
36”		–	49.0	64.0
42”		–	42.0	55.0
48”		–	36.5	48.0



WIDTH (W) = W1 (JAMB)

WIDTH (W) = $\frac{W1 + W2}{2}$ (MULLION)

WIDTH (W) = $\frac{W2 + W3}{2}$ (DJM)



STEP 3: MULLION LOAD CAPACITIES



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PRODUCT:

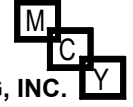
Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI



PRODUCT SERIES

REV#	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

**MCY ENGINEERING, INC.**
GLAZING CONSULTANT
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 5598377

December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

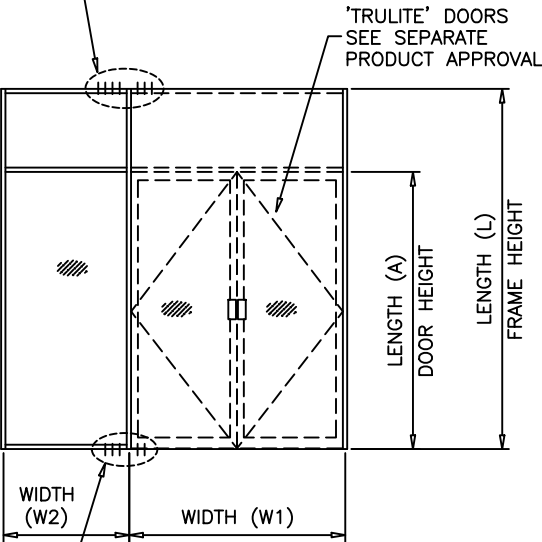
DRAWN: James	DRAWING No:
DATE: 09.23.2021	5 OF 11
DWG: AD11–20	

MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
60"	30"	96"	102"	71.1	87.5
	33"			68.1	87.5
	36"			65.3	87.5
	39"			62.7	87.5
	42"			60.3	87.5
	48"			56.0	87.5
	54"			52.3	87.5
72"	30"			64.5	87.5
	33"			62.0	87.5
	36"			59.6	87.5
	39"			57.5	87.5
	42"			55.5	87.5
	48"			51.8	87.5
	54"			48.6	87.5
60"	30"	96"	108"	56.8	87.5
	33"			54.5	87.5
	36"			52.4	87.5
	39"			50.4	87.5
	42"			48.6	87.5
	48"			45.3	87.5
	54"			42.4	87.5
72"	30"			51.3	87.5
	33"			49.4	87.5
	36"			47.6	87.5
	39"			46.0	87.5
	42"			44.5	87.5
	48"			41.7	87.2
	54"			39.2	82.1
60"	30"	96"	114"	46.2	87.5
	33"			44.4	87.5
	36"			42.8	87.5
	39"			41.2	86.2
	42"			39.8	83.2
	48"			37.2	77.7
	54"			34.9	72.9
72"	30"			41.6	87.5
	33"			40.1	83.9
	36"			38.8	81.1
	39"			37.5	78.4
	42"			36.3	75.9
	48"			34.1	71.3
	54"			32.2	67.3

MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
60"	30"	96"	120"	38.3	80.0
	33"			36.8	77.0
	36"			35.5	74.2
	39"			34.2	71.6
	42"			33.1	69.1
	48"			31.0	64.7
	54"			29.1	60.9
72"	30"			34.3	71.8
	33"			33.2	69.3
	36"			32.1	67.1
	39"			31.0	64.9
	42"			30.1	62.9
	48"			28.3	59.2

ANCHORS TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD (1/4" MAX. SHIM)			
	REINF. MULLION		UN-REINF. MULLION	
	AT FIX. LITE	AT DOOR	AT FIX. LITE	AT DOOR
A	4	4	3	3
B	3	3	2	2
C	3	2	2	2

ANCHORS TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD (3/8" MAX. SHIM)			
	REINF. MULLION		UN-REINF. MULLION	
	AT FIX. LITE	AT DOOR	AT FIX. LITE	AT DOOR
A	4	5	3	4
B	4	5	3	4
C	4	4	3	3

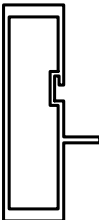
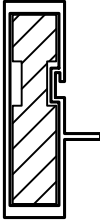


ANCHORS TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL (1/4" MAX. SHIM)			
	REINF. MULLION		UN-REINF. MULLION	
	AT FIX. LITE	AT DOOR	AT FIX. LITE	AT DOOR
A	3	3	2	2
B	3	2	2	2

ANCHORS TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL (3/8" MAX. SHIM)			
	REINF. MULLION		UN-REINF. MULLION	
	AT FIX. LITE	AT DOOR	AT FIX. LITE	AT DOOR
A	3	3	3	2
B	3	3	3	2

MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
60"	30"	90"	96"	85.0	87.5
	33"			81.3	87.5
	36"			78.0	87.5
	39"			74.9	87.5
	42"			72.1	87.5
	48"			67.0	87.5
	54"			62.6	87.5
72"	30"			77.0	87.5
	33"			74.0	87.5
	36"			71.3	87.5
	39"			68.7	87.5
	42"			66.3	87.5
	48"			62.0	87.5
	54"			58.2	87.5
60"	30"	90"	102"	67.0	87.5
	33"			64.3	87.5
	36"			61.8	87.5
	39"			59.5	87.5
	42"			57.3	87.5
	48"			53.5	87.5
	54"			50.1	87.5
72"	30"			60.5	87.5
	33"			58.3	87.5
	36"			56.2	87.5
	39"			54.3	87.5
	42"			52.5	87.5
	48"			49.2	87.5
	54"			46.3	87.5
60"	30"	90"	108"	54.0	87.5
	33"			51.9	87.5
	36"			49.9	87.5
	39"			48.1	87.5
	42"			46.5	87.5
	48"			43.4	87.5
	54"			40.8	85.3
72"	30"			48.5	87.5
	33"			46.8	87.5
	36"			45.2	87.5
	39"			43.7	87.5
	42"			42.4	87.5
	48"			39.8	83.3
	54"			37.6	78.6

MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
60"	30"	90"	114"	44.3	87.5
	33"			42.6	87.5
	36"			41.1	85.9
	39"			39.6	82.9
	42"			38.3	80.1
	48"			35.9	75.0
	54"			33.7	70.6
72"	30"			39.7	83.0
	33"			38.3	80.2
	36"			37.1	77.6
	39"			35.9	75.1
	42"			34.8	72.8
	48"			32.8	68.6
	54"			31.0	64.8
60"	30"	90"	120"	36.9	77.1
	33"			35.5	74.3
	36"			34.3	71.7
	39"			33.1	69.2
	42"			32.0	67.0
	48"			30.0	62.8
	54"			28.3	59.2
72"	30"			33.0	69.0
	33"			31.9	66.8
	36"			30.9	64.6
	39"			29.9	62.6
	42"			29.0	60.7
	48"			27.4	57.3
	54"			26.0	54.0
60"	30"	90"	126"	34.0	72.0
	33"			33.0	70.0
	36"			32.0	68.0
	39"			31.0	66.0
	42"			29.0	62.0
	48"			28.0	59.0
	54"			27.0	56.0
72"	30"			31.0	66.0
	33"			30.0	64.0
	36"			30.0	62.0
	39"			29.0	61.0
	42"			28.0	59.0
	48"			27.0	56.0



FRAME JAMB DOOR MULLION		FRAME JAMB DOOR MULLION	
Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
ALUM 8.5717	3.7792	ALUM 4.0975	1.8066

STEP 3: MULLION LOAD CAPACITIES



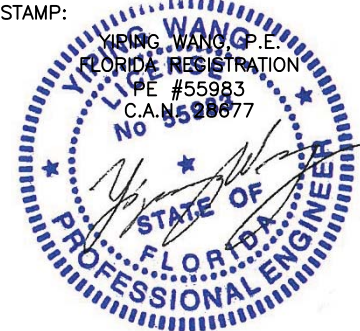
403 WEST PARK COURT, STE. 201
PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:
Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI



REV#	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:
MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com



December 16,2021
PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James
DATE: 09.23.2021
DWG: AD11–20
DRAWING No:
6 OF 11

MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM					
NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING	NOMINAL DIMS.				WITHOUT REINFORCING	WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
60"	30"	84"	90"	87.5	87.5	60"	30"	84"	108"	51.6	87.5	60"	30"	80"	90"	87.5	87.5	60"	30"	80"	108"	50.3	87.5
	33"			87.5	87.5		33"			49.7	87.5		33"			87.5	87.5		33"			48.4	87.5
	36"			87.5	87.5		36"			47.9	87.5		36"			87.5	87.5		36"			46.7	87.5
	39"			87.5	87.5		39"			46.2	87.5		39"			87.1	87.5		39"			45.2	87.5
	42"			87.2	87.5		42"			44.7	87.5		42"			83.9	87.5		42"			43.7	87.5
	48"			81.0	87.5		48"			41.9	87.5		48"			78.3	87.5		48"			41.0	85.8
	54"			75.7	87.5		54"			39.4	82.4		54"			73.3	87.5		54"			38.6	80.8
72"	30"	84"	90"	87.5	87.5	72"	30"	84"	108"	46.2	87.5	72"	30"	80"	90"	87.5	87.5	72"	30"	80"	108"	44.9	87.5
	33"			87.5	87.5		33"			44.7	87.5		33"			85.4	87.5		33"			43.5	87.5
	36"			86.1	87.5		36"			43.2	87.5		36"			82.3	87.5		36"			42.1	87.5
	39"			83.0	87.5		39"			41.9	87.5		39"			79.5	87.5		39"			40.8	85.4
	42"			80.1	87.5		42"			40.6	84.9		42"			76.9	87.5		42"			39.6	82.8
	48"			74.9	87.5		48"			38.3	80.0		48"			72.1	87.5		48"			37.4	78.2
	54"			70.3	87.5		54"			36.2	75.7		54"			67.8	87.5		54"			35.4	74.1
60"	30"	84"	96"	79.8	87.5	60"	30"	84"	114"	42.6	87.5	60"	30"	80"	96"	76.9	87.5	60"	30"	80"	114"	41.7	87.3
	33"			76.6	87.5		33"			41.1	85.9		33"			73.9	87.5		33"			40.2	84.2
	36"			73.7	87.5		36"			39.6	82.9		36"			71.1	87.5		36"			38.9	81.3
	39"			70.9	87.5		39"			38.3	80.1		39"			68.5	87.5		39"			37.6	78.6
	42"			68.4	87.5		42"			37.1	77.5		42"			66.2	87.5		42"			36.4	76.1
	48"			63.8	87.5		48"			34.8	72.8		48"			61.9	87.5		48"			34.2	71.5
	54"			59.8	87.5		54"			32.8	68.6		54"			58.1	87.5		54"			32.2	67.4
72"	30"	84"	96"	72.0	87.5	72"	30"	84"	114"	38.1	79.7	72"	30"	80"	96"	69.1	87.5	72"	30"	80"	114"	37.2	77.9
	33"			69.4	87.5		33"			36.9	77.1		33"			66.7	87.5		33"			36.1	75.4
	36"			66.9	87.5		36"			35.7	74.7		36"			64.4	87.5		36"			34.9	73.1
	39"			64.7	87.5		39"			34.6	72.4		39"			62.3	87.5		39"			33.9	70.9
	42"			62.5	87.5		42"			33.6	70.3		42"			60.3	87.5		42"			32.9	68.9
	48"			58.7	87.5		48"			31.7	66.3		48"			56.7	87.5		48"			31.1	65.1
	54"			55.3	87.5		54"			30.0	62.8		54"			53.5	87.5		54"			29.5	61.7
60"	30"	84"	102"	63.5	87.5	60"	30"	84"	120"	35.7	74.7	60"	30"	80"	102"	61.6	87.5	60"	30"	80"	120"	35.1	73.5
	33"			61.1	87.5		33"			34.5	72.1		33"			59.3	87.5		33"			33.9	70.9
	36"			58.8	87.5		36"			33.3	69.6		36"			57.1	87.5		36"			32.8	68.5
	39"			56.7	87.5		39"			32.2	67.3		39"			55.1	87.5		39"			31.7	66.3
	42"			54.8	87.5		42"			31.2	65.2		42"			53.3	87.5		42"			30.7	64.2
	48"			51.2	87.5		48"			29.3	61.2		48"			49.9	87.5		48"			28.9	60.4
	54"			48.1	87.5		54"			27.6	57.8		54"			47.0	87.5		54"			27.2	57.0
72"	30"	84"	102"	57.1	87.5	72"	30"	84"	120"	31.9	66.8	72"	30"	80"	102"	55.2	87.5	72"	30"	80"	120"	31.3	65.5
	33"			55.1	87.5		33"			30.9	64.6		33"			53.3	87.5		33"			30.3	63.4
	36"			53.2	87.5		36"			29.9	62.6		36"			51.6	87.5		36"			29.4	61.5
	39"			51.5	87.5		39"			29.0	60.7		39"			49.9	87.5		39"			28.5	59.7
	42"			49.9	87.5		42"			28.2	59.0		42"			48.4	87.5		42"			27.7	58.0
	48"			46.9	87.5		48"			26.6	55.7		48"			45.6	87.5		48"			26.2	54.9
	54"			44.3	87.5		54"						54"			43.1	87.5		54"				



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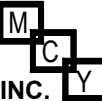
PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI



REVN	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James

DATE: 09.23.2021

DWG: AD11–20

DRAWING No:

7 OF 11

STEP 3: MULLION LOAD CAPACITIES

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
		1/4" MAX. SHIM			1/4" SHIM		1/4" SHIM	
WIDTH (W)	FRAME HEIGHT	'A2'	'A3'	'A4'	'B2'	'B3'	'C2'	'C3'
24"	78"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		90.4	100.0	100.0	100.0	100.0	100.0	100.0
48"		79.1	100.0	100.0	100.0	100.0	100.0	100.0
54"		70.3	100.0	100.0	99.0	100.0	100.0	100.0
60"		63.0	94.9	100.0	89.1	100.0	100.0	100.0
66"		57.5	86.3	100.0	81.0	100.0	100.0	100.0
72"		52.7	79.1	100.0	74.3	100.0	93.9	100.0
24"	84"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		97.9	100.0	100.0	100.0	100.0	100.0	100.0
48"		83.9	100.0	100.0	100.0	100.0	100.0	100.0
54"		73.4	97.9	100.0	92.0	100.0	100.0	100.0
60"		58.7	88.1	100.0	82.8	100.0	100.0	100.0
66"		53.4	80.1	100.0	75.3	100.0	95.2	100.0
72"		49.0	73.4	97.9	69.0	100.0	87.2	100.0
24"	90"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		91.4	100.0	100.0	100.0	100.0	100.0	100.0
42"		78.3	100.0	100.0	100.0	100.0	100.0	100.0
48"		68.5	100.0	100.0	96.6	100.0	100.0	100.0
54"		60.9	91.4	100.0	85.8	100.0	100.0	100.0
60"		54.8	82.2	100.0	77.3	100.0	97.7	100.0
66"		49.8	74.8	99.7	70.2	100.0	88.8	100.0
72"		45.7	68.5	91.4	64.4	96.6	81.4	100.0
24"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		85.7	100.0	100.0	100.0	100.0	100.0	100.0
42"		73.4	100.0	100.0	100.0	100.0	100.0	100.0
48"		64.3	96.4	100.0	90.5	100.0	100.0	100.0
54"		57.1	85.7	100.0	80.5	100.0	100.0	100.0
60"		51.4	77.1	100.0	72.4	100.0	91.6	100.0
66"		46.7	70.1	93.5	65.8	98.8	83.3	100.0
72"		42.8	64.3	85.7	60.4	90.5	76.3	100.0
24"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		96.8	100.0	100.0	100.0	100.0	100.0	100.0
36"		80.6	100.0	100.0	100.0	100.0	100.0	100.0
42"		69.1	100.0	100.0	97.4	100.0	100.0	100.0
48"		60.5	90.7	100.0	85.2	100.0	100.0	100.0
54"		53.8	80.6	100.0	75.7	100.0	95.8	100.0
60"		48.4	72.6	96.8	68.2	100.0	86.2	100.0
66"		44.0	66.0	88.0	62.0	93.0	78.4	100.0
72"		40.3	60.5	80.6	56.8	85.2	71.8	100.0
24"	108"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		91.4	100.0	100.0	100.0	100.0	100.0	100.0
36"		76.1	100.0	100.0	100.0	100.0	100.0	100.0
42"		65.3	97.9	100.0	92.0	100.0	100.0	100.0
48"		57.1	85.7	100.0	80.5	100.0	100.0	100.0
54"		50.8	76.1	100.0	71.5	100.0	90.5	100.0
60"		45.7	68.5	91.4	64.4	96.6	81.4	100.0
66"		41.5	62.3	83.1	58.5	87.8	74.0	100.0

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
		1/4" MAX. SHIM			1/4" SHIM		1/4" SHIM	
WIDTH (W)	FRAME HEIGHT	'A2'	'A3'	'A4'	'B2'	'B3'	'C2'	'C3'
24"	114"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		86.6	100.0	100.0	100.0	100.0	100.0	100.0
36"		72.1	100.0	100.0	100.0	100.0	100.0	100.0
42"		61.8	92.8	100.0	87.1	100.0	100.0	100.0
48"		54.1	81.2	100.0	76.2	100.0	96.4	100.0
54"		48.1	72.1	96.2	67.8	100.0	85.7	100.0
60"		43.3	64.9	86.6	61.0	91.5	77.1	100.0
66"		38.2	57.5	77.5	54.1	81.2	67.8	100.0
24"	120"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		82.2	100.0	100.0	100.0	100.0	100.0	100.0
36"		68.5	100.0	100.0	96.6	100.0	100.0	100.0
42"		58.7	88.1	100.0	82.8	100.0	100.0	100.0
48"		51.4	77.1	100.0	72.4	100.0	91.6	100.0
54"		45.7	68.5	91.4	64.4	96.6	81.4	100.0
60"		41.1	61.7	82.2	57.9	86.9	73.3	100.0
66"		36.8	54.1	72.1	50.8	76.1	64.4	100.0
24"	126"	97.9	100.0	100.0	100.0	100.0	100.0	100.0
30"		78.3	100.0	100.0	100.0	100.0	100.0	100.0
36"		65.3	97.9	100.0	91.9	100.0	100.0	100.0
42"		55.9	83.9	100.0	78.8	100.0	99.7	100.0
48"		49.0	73.4	97.9	69.0	100.0	87.2	100.0
54"		43.5	65.3	87.0	61.3	91.9	77.5	100.0
60"		38.2	57.5	77.5	54.1	81.2	67.8	100.0
66"		32.9	49.0	67.8	46.7	70.1	58.7	100.0
24"	132"	93.5	100.0	100.0	100.0	100.0	100.0	100.0
30"		74.8	100.0	100.0	100.0	100.0	100.0	100.0
36"		62.3	93.5	100.0	87.8	100.0	100.0	100.0
42"		53.4	80.1	100.0	75.2	100.0	95.2	100.0
48"		46.7	70.1	93.5	65.8	98.7	83.3	100.0
54"		41.5	62.3	83.1	58.5	87.8	74.0	100.0
60"		36.8	54.1	72.1	50.8	76.1	64.4	100.0
66"		32.9	49.0	67.8	46.7	70.1	58.7	100.0
24"	138"	89.4	100.0	100.0	100.0	100.0	100.0	100.0
30"		71.5	100.0	100.0	100.0	100.0	100.0	100.0
36"		59.6	89.4	100.0	83.9	100.0	100.0	100.0
42"		51.1	76.6	100.0	72.0	100.0	91.0	100.0
48"		44.7	67.0	89.4	63.0	94.4	79.7	100.0
54"		38.2	57.5	77.5	54.1	81.2	67.8	100.0
60"		32.9	49.0	67.8	46.7	70.1	58.7	100.0
66"		27.6	40.3	57.1	38.2	57.5	47.9	100.0
24"	144"	85.7	100.0	100.0	100.0	100.0	100.0	100.0
30"		68.5	100.0	100.0	96.5	100.0	100.0	100.0
36"		57.1	85.7	100.0	80.4	100.0	100.0	100.0
42"		49.0	73.4	97.9	69.0	100.0	87.2	100.0
48"		42.8	64.3	85.7	60.3	90.5	76.3	100.0
54"		36.8	54.1	72.1	50.8	76.1	64.4	100.0
60"		32.9	49.0	67.8	46.7	70.1	58.7	100.0
66"		27.6	40.3	57.1	38.2	57.5	47.9	100.0

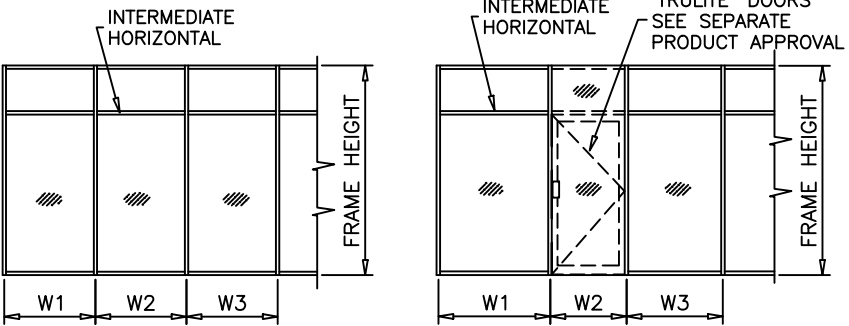
ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A4 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

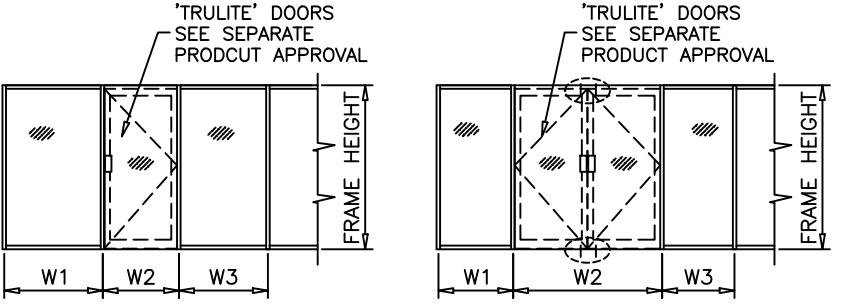
C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

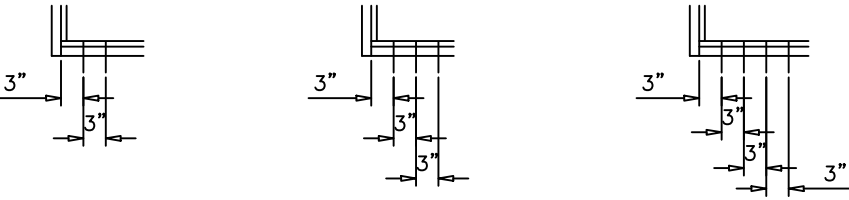


WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

WIDTH (W) = W1
AT FRAME JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



A2, B2, C2

A3, B3, C3

A4

STEP 4: ANCHOR LOAD CAPACITY



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PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

REV#	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027

P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James

DATE: 09.23.2021

DWG: AD11-20

DRAWING No:

8 OF 11

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.		ANCHORS TYPE 'A' & 'B' 3/8" MAX. SHIM				ANCHORS TYPE 'C' 3/8" MAX. SHIM		
		A2/B2	A3/B3	A4/B4	A5/B5	'C2'	'C3'	'C4'
24"	78"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		89.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		76.0	100.0	100.0	100.0	90.0	100.0	100.0
48"		66.0	100.0	100.0	100.0	78.0	100.0	100.0
54"		59.0	89.0	100.0	100.0	70.0	100.0	100.0
60"		53.0	80.0	100.0	100.0	63.0	94.0	100.0
66"		48.0	73.0	97.0	100.0	57.0	86.0	100.0
72"		44.0	66.0	89.0	100.0	52.0	78.0	100.0
24"	84"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		99.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		82.0	100.0	100.0	100.0	97.0	100.0	100.0
42"		71.0	100.0	100.0	100.0	83.0	100.0	100.0
48"		62.0	93.0	100.0	100.0	73.0	100.0	100.0
54"		55.0	82.0	100.0	100.0	65.0	97.0	100.0
60"		49.0	74.0	99.0	100.0	58.0	87.0	100.0
66"		45.0	67.0	90.0	100.0	53.0	79.0	100.0
72"		41.0	62.0	82.0	100.0	49.0	73.0	97.0
24"	90"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		92.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		77.0	100.0	100.0	100.0	91.0	100.0	100.0
42"		66.0	99.0	100.0	100.0	78.0	100.0	100.0
48"		58.0	86.0	100.0	100.0	68.0	100.0	100.0
54"		51.0	77.0	100.0	100.0	60.0	91.0	100.0
60"		46.0	69.0	92.0	100.0	54.0	82.0	100.0
66"		42.0	63.0	84.0	100.0	49.0	74.0	99.0
72"		38.0	58.0	77.0	96.0	45.0	68.0	91.0
24"	96"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		86.0	100.0	100.0	100.0	100.0	100.0	100.0
36"		72.0	100.0	100.0	100.0	85.0	100.0	100.0
42"		62.0	93.0	100.0	100.0	73.0	100.0	100.0
48"		54.0	81.0	100.0	100.0	64.0	96.0	100.0
54"		48.0	72.0	96.0	100.0	57.0	85.0	100.0
60"		43.0	65.0	86.0	100.0	51.0	76.0	100.0
66"		39.0	59.0	79.0	98.0	46.0	69.0	93.0
72"		36.0	54.0	72.0	90.0	42.0	64.0	85.0
24"	102"	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		81.0	100.0	100.0	100.0	96.0	100.0	100.0
36"		68.0	100.0	100.0	100.0	80.0	100.0	100.0
42"		58.0	87.0	100.0	100.0	69.0	100.0	100.0
48"		51.0	76.0	100.0	100.0	60.0	90.0	100.0
54"		45.0	68.0	90.0	100.0	53.0	80.0	100.0
60"		41.0	61.0	81.0	100.0	48.0	72.0	96.0
66"		37.0	55.0	74.0	92.0	44.0	65.0	87.0
72"		34.0	51.0	68.0	85.0	40.0	60.0	80.0
24"	108"	96.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		77.0	100.0	100.0	100.0	91.0	100.0	100.0
36"		64.0	96.0	100.0	100.0	75.0	100.0	100.0
42"		55.0	82.0	100.0	100.0	65.0	97.0	100.0
48"		48.0	72.0	96.0	100.0	57.0	85.0	100.0
54"		43.0	64.0	85.0	100.0	50.0	75.0	100.0
60"		38.0	58.0	77.0	96.0	45.0	68.0	91.0
66"		35.0	52.0	70.0	87.0	41.0	62.0	82.0

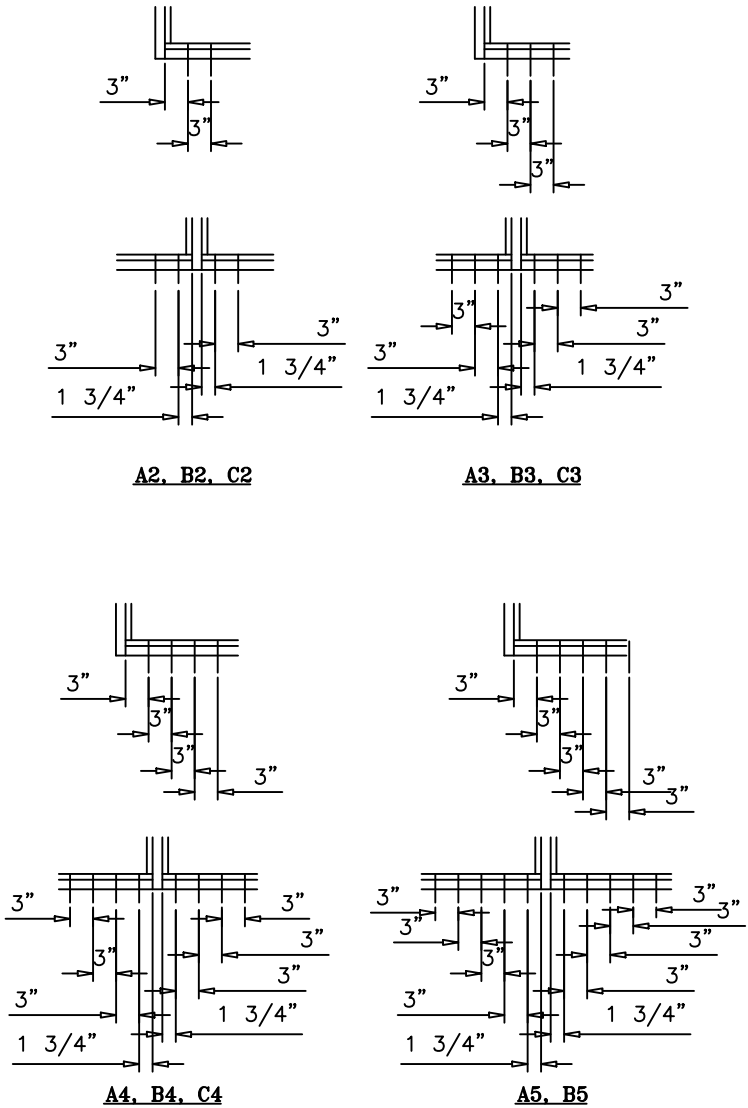
ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)								
NOMINAL DIMS.		ANCHORS TYPE 'A' & 'B' 3/8" MAX. SHIM				ANCHORS TYPE 'C' 3/8" MAX. SHIM		
		A2/B2	A3/B3	A4/B4	A5/B5	'C2'	'C3'	'C4'
24"	114"	91.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		73.0	100.0	100.0	100.0	86.0	100.0	100.0
36"		61.0	91.0	100.0	100.0	72.0	100.0	100.0
42"		52.0	78.0	100.0	100.0	61.0	92.0	100.0
48"		45.0	68.0	91.0	100.0	54.0	80.0	100.0
54"		40.0	61.0	81.0	100.0	48.0	72.0	95.0
60"		36.0	55.0	73.0	91.0	43.0	64.0	86.0
24"	120"	86.0	100.0	100.0	100.0	100.0	100.0	100.0
30"		69.0	100.0	100.0	100.0	82.0	100.0	100.0
36"		58.0	86.0	100.0	100.0	68.0	100.0	100.0
42"		49.0	74.0	99.0	100.0	58.0	87.0	100.0
48"		43.0	65.0	86.0	100.0	51.0	76.0	100.0
54"		38.0	58.0	77.0	96.0	45.0	68.0	91.0
60"		35.0	52.0	69.0	86.0	41.0	61.0	82.0
24"	126"	82.0	100.0	100.0	100.0	97.0	100.0	100.0
30"		66.0	99.0	100.0	100.0	78.0	100.0	100.0
36"		55.0	82.0	100.0	100.0	65.0	97.0	100.0
42"		47.0	71.0	94.0	100.0	55.0	83.0	100.0
48"		41.0	62.0	82.0	100.0	49.0	73.0	97.0
54"		37.0	55.0	73.0	91.0	43.0	65.0	86.0
24"	132"	79.0	100.0	100.0	100.0	93.0	100.0	100.0
30"		63.0	94.0	100.0	100.0	74.0	100.0	100.0
36"		52.0	79.0	100.0	100.0	62.0	93.0	100.0
42"		45.0	67.0	90.0	100.0	53.0	79.0	100.0
48"		39.0	59.0	79.0	98.0	46.0	69.0	93.0
54"		35.0	52.0	70.0	87.0	41.0	62.0	82.0
24"	138"	75.0	100.0	100.0	100.0	89.0	100.0	100.0
30"		60.0	90.0	100.0	100.0	71.0	100.0	100.0
36"		50.0	75.0	100.0	100.0	59.0	89.0	100.0
42"		43.0	64.0	86.0	100.0	51.0	76.0	100.0
48"		38.0	56.0	75.0	94.0	44.0	66.0	89.0
24"	144"	72.0	100.0	100.0	100.0	85.0	100.0	100.0
30"		58.0	86.0	100.0	100.0	68.0	100.0	100.0
36"		48.0	72.0	96.0	100.0	57.0	85.0	100.0
42"		41.0	62.0	82.0	100.0	49.0	73.0	97.0
48"		36.0	54.0	72.0	90.0	42.0	64.0	85.0

ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

A2/B2 = (2) ANCHORS TYPE 'A' OR 'B' AT JAMB OR EACH SIDE OF MULLION
A3/B3 = (3) ANCHORS TYPE 'A' OR 'B' AT JAMB OR EACH SIDE OF MULLION
A4/B4 = (4) ANCHORS TYPE 'A' OR 'B' AT JAMB OR EACH SIDE OF MULLION
A5/B5 = (4) ANCHORS TYPE 'A' OR 'B' AT JAMB OR EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C4 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



STEP 4: ANCHOR LOAD CAPACITY



http://www.trulite.com

403 WEST PARK COURT, STE. 201
PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027
P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

DRAWN: James

DATE: 09.23.2021

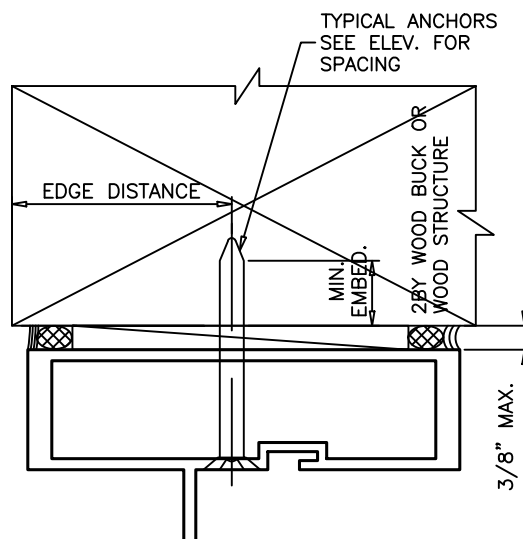
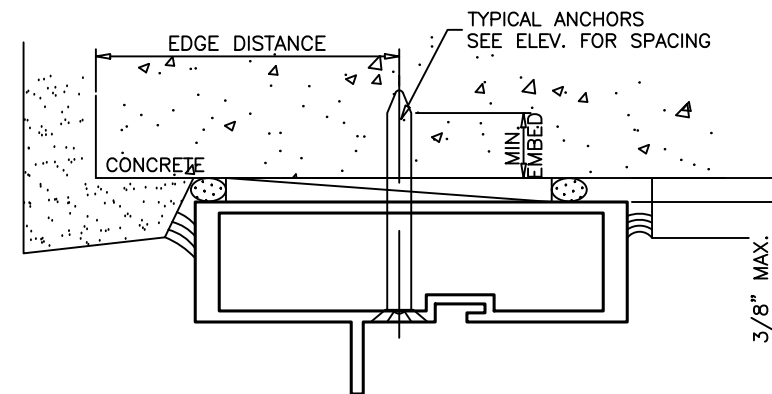
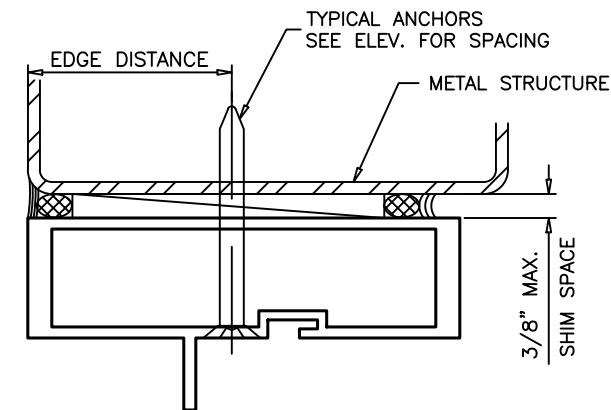
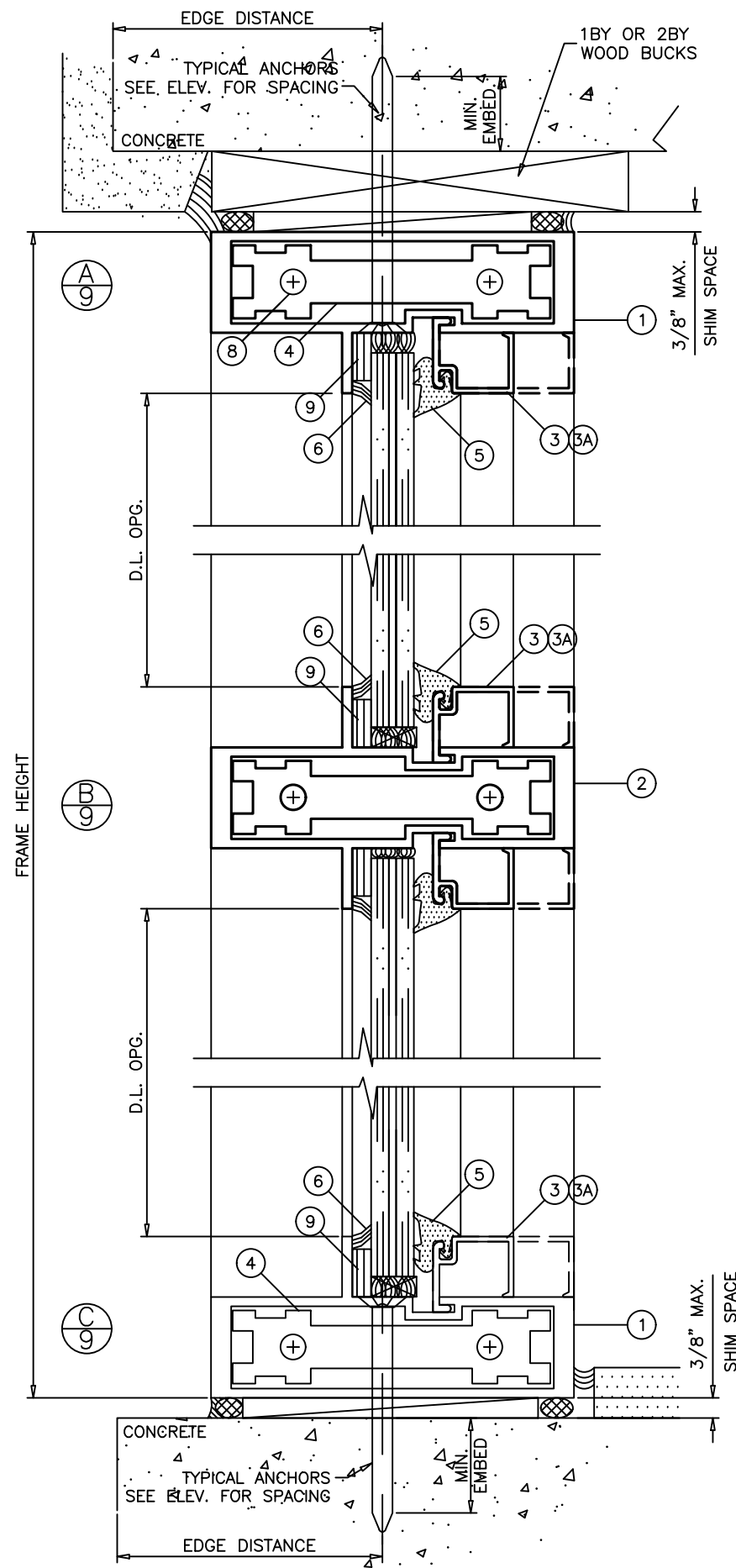
DWG: AD11-20

DRAWING No:

8A OF 11

FL #21334

EXTERIOR OR INTERIOR



WOOD BUCKS AND METAL STRUCTURES NOT BY TRULITE. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE 'A' 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu 164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU WOOD BUCKS INTO CONC. OR MASONRY*
1-1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)
1-3/8" MIN. EMBED INTO CONC.

TYPE 'B' 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu 164 KSI, Fy=148 KSI) DIRECTLY INTO CONCRETE
1-5/8" MIN. EMBED INTO CONCRETE

TYPE 'C' #14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS) - 1/4" MAX. SHIM
#14 SELF DRILLING SCREWS (GRADE 5 CRS) - 3/8" MAX. SHIM INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.) INTO METAL STRUCTURE.

STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY* = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

SEALANTS:

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH SILICONE
GLAZING OPTIONS 6A, 6B OR 6C.
FRAME CORNERS SEALED WITH DOW CORNING 999 OR EQUAL COMPATIBLE.

*MASONRY - GROUT FILLED CONCRETE BLOCK (f'c=2000 PSI MIN.)

NOTE: MASONRY USED AT JAMB SUBSTRATE ONLY

THIS PRODUCT MAY BE INSTALLED INSIDE OR OUTSIDE GLAZED

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403 WEST PARK COURT, STE. 201
PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE.301
MIRAMAR, FL 33027

P: (305) 271-0117 / P: (786) 360-2786
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

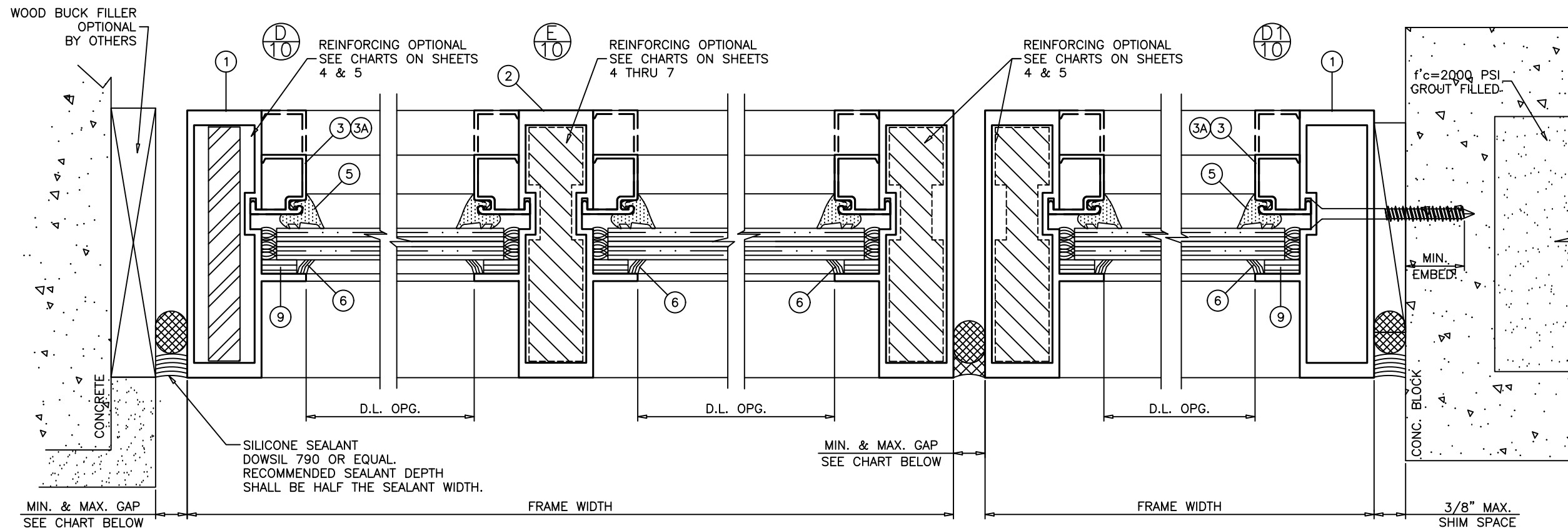
DRAWN: James

DATE: 09.23.2021

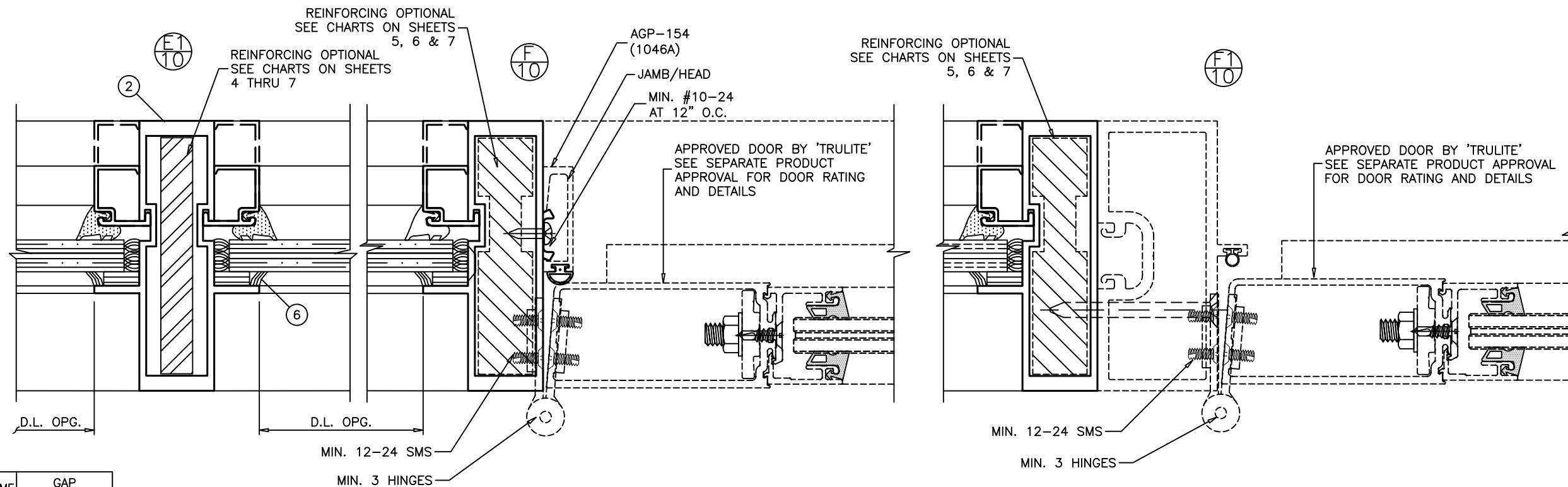
DWG: AD11-20

DRAWING No:

9 OF 11



EXTERIOR OR INTERIOR



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
60"	3/16"	1/2"
72"	1/4"	1/2"
84"	1/4"	1/2"
96"	3/8"	1/2"
108"	3/8"	1/2"
120"	1/2"	1/2"

MAX. FRAME WIDTH	MAX. GAP AT EACH SIDE
30 FT.	1-1/8"
60 FT.	1-1/8"

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

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PEACHTREE CITY, GA 30269
p. 800-432-8132 | f. 954-724-2083

PRODUCT:

Resistor
3000 ALUMINUM
STOREFRONT WALL-LMI

Resistor
PRODUCT SERIES

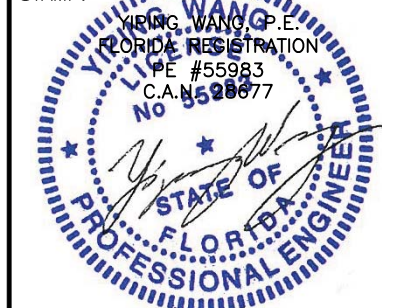
REVN	DATE/REMARKS
Rev.2	2.06.15/UPDATE TO 2014 FBC
Rev.3	10.16.20/UPDATE TO 2020FBC
Rev.4	09.23.21/ADD GLASS INTERLAYER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

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MIRAMAR, FL 33027
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Email: mcy@mcengineering.com
www.MCYEngineering.com

STAMP:



December 16, 2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James

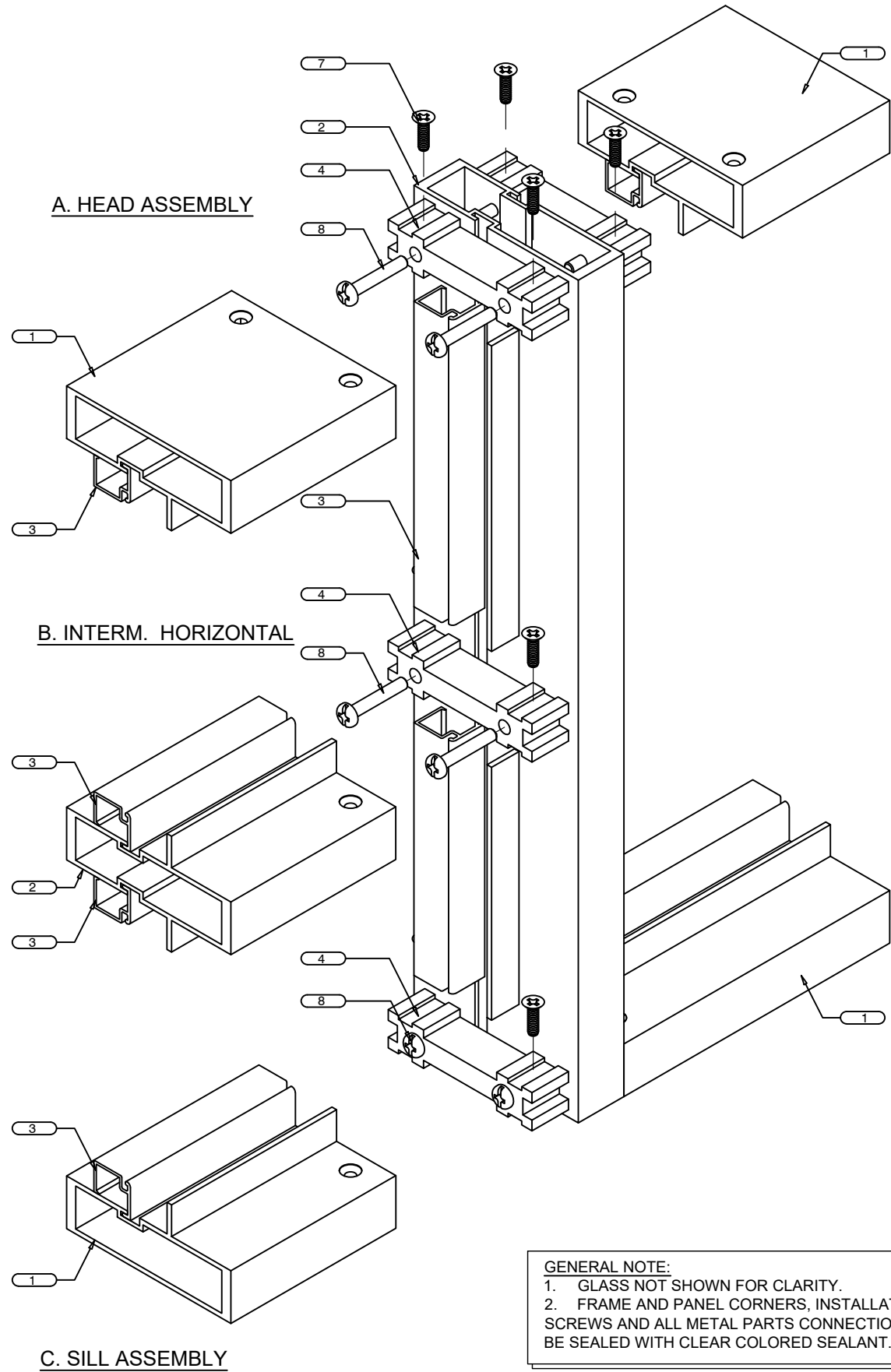
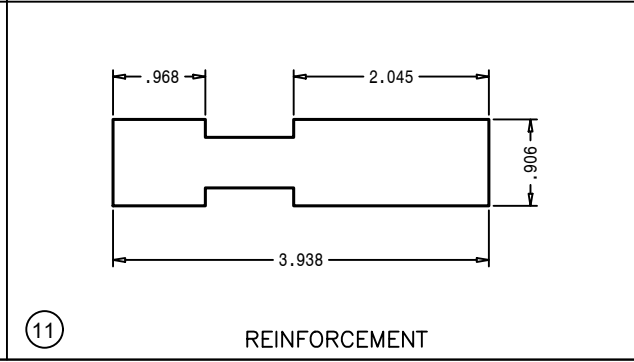
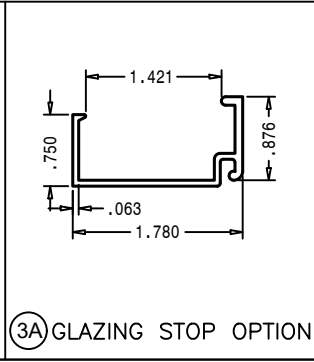
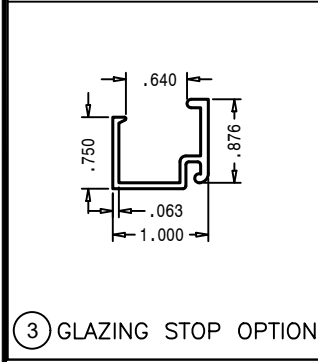
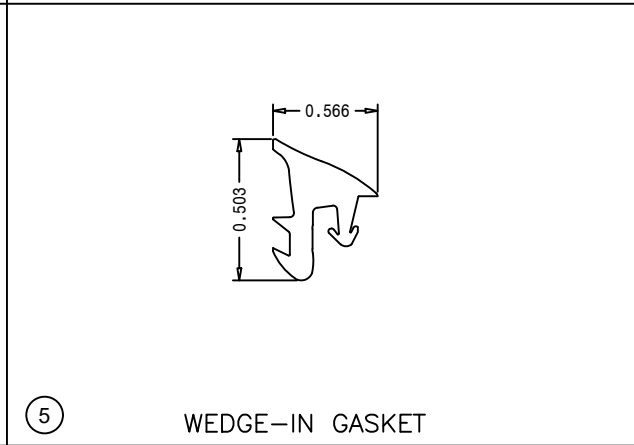
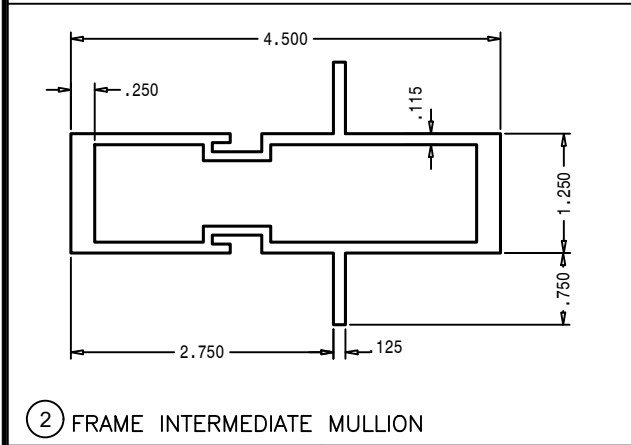
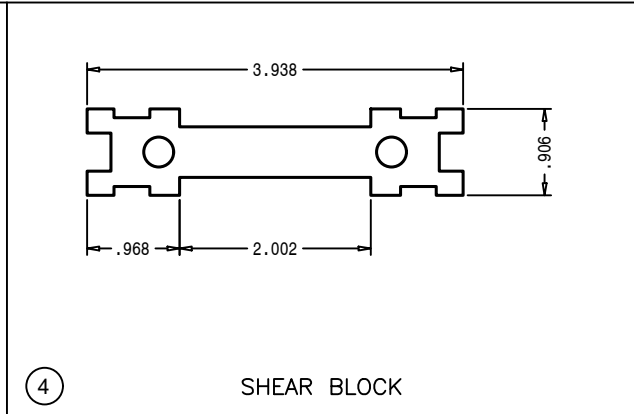
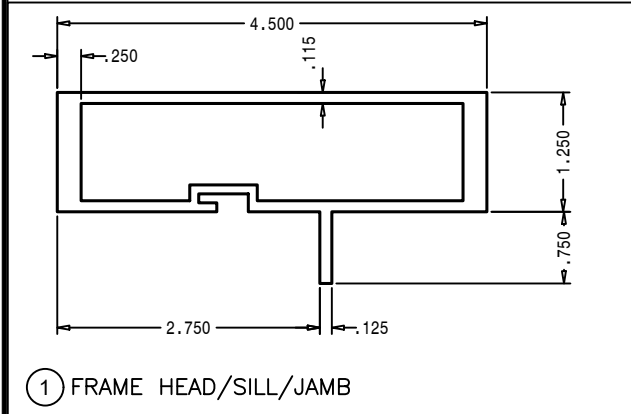
DATE: 09.23.2021

DWG: AD11-20

DRAWING No:

100F 11

BILL OF MATERIALS				
ITEM #	PART#	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	3001	FRAME HEAD/SILL/JAMB	ALUM. 6063-T6	TRULITE
2	3002	INTERMEDIATE MULLION (VERT/HORIZ)	ALUM. 6063-T6	TRULITE
3	3003	GLAZING STOP	ALUM. 6063-T5	TRULITE
3A	3103	GLAZING STOP (OPTION)	ALUM. 6063-T6	TRULITE
4	3004 CLIP	SHEAR BLOCK (1" LONG)	ALUM. 6063-T6	BONNELL
5	RG-1	GLAZING GASKET DUROMETER 60 +/- 5	EPDM	TRULITE
6A	DOWSIL 995 OR DOWSIL 983	SILICONE SEALANT	SILICONE	DOWSIL
6B	SSG4000	SILICONE SEALANT	SILICONE	GE (MOMENTIVE)
6C	PROGLAZE SSG	SILICONE SEALANT	SILICONE	TREMCO
7	23163	#2-24 x 3/4" PFH-23	STEEL/ZINC COATED	VARIES
8	23233	1/2-20 x 1-1/2" PPH-23	STEEL/ZINC COATED	VARIES
9	V2100/VK1826	GLAZING FOAM TAPE	-	ST. GOBAIN / CAPITAL TAPE
9A	V2108/VK1826	GLAZING FOAM TAPE	-	ST. GOBAIN / CAPITAL TAPE
10	H62D	SETTING BLOCK (1/2" x 1/4" x 4" LONG)	EPDM-DURO 85±5 SH.A	-
11	3004A	ALUMINUM REINFORCEMENT	ALUM. 6063-T6	TRULITE
12	-	1/2" X 3-7/8" STEEL BAR REINFORCEMENT	STEEL (A36)	-



GENERAL NOTE:
1. GLASS NOT SHOWN FOR CLARITY.
2. FRAME AND PANEL CORNERS, INSTALLATION
SCREWS AND ALL METAL PARTS CONNECTIONS
TO BE SEALED WITH CLEAR COLORED SEALANT.

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Resistor
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Resistor
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www.MCYEngineering.com

STAMP:
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
C.A.N. 5528677
December 16,2021

PRODUCT CONTROL APPROVAL:

FL #21334

DRAWN: James	DRAWING No:
DATE: 09.23.2021	11 OF 11
DWG: AD11-20	