

SERIES 3000R ALUMINUM WINDOW WALL SYSTEM INSIDE GLAZED  
LARGE MISSILE IMPACT (L.M.I.)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOW WALL RATED FOR LARGE AND SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- 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.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY TRULITE GLASS AND ALUMINUM SOLUTIONS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM ASCE 7-16, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16 STANDARD.
- STEP 2: SEE CHARTS ON SHEET 4 & 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 6 THROUGH 9. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4: USING CHART ON SHEETS 10 THROUGH 11 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.

NOTE:  
RESISTOR (RESISTOR 3000R ALUMINUM STOREFRONT WALL) WAS TESTED TO COMPLY WITH MISSILE LEVEL "D" (50FT/SEC) IMPACT AND QUALIFIED FOR USE ON ESSENTIAL FACILITIES FOR THE FOLLOWING WIND ZONE LOCATIONS:

- WIND ZONE1: 130MPH-139MPH
- WIND ZONE2: 140MPH-149MPH (GREATER THAN ONE MILE OF THE COASTLINE.
- WIND ZONE3: 150MPH-170MPH (@ELEVATION>30')
- WIND ZONE3: 140MPH-170MPH (@ELEVATION>30'. WITHIN ONE MILE OF THE COASTLINE)

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

- LIMITATIONS OF USE
- A) 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.
- B) 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.
- C) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D) 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.
- E) THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



http://www.trulite.com

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

PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
STOREFRONT WALL-LMI

**Resistor**  
PRODUCT SERIES

| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE. 301  
MIRAMAR, FL 33027  
P: (305) 271-0117  
Email: mcy@mcysengineering.com  
www.MCYEngineering.com

STAMP:

YINPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

September 6th, 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.      DRAWING No:

DATE: 08.26.2022      **1 OF 16**

DWG: AD18-17



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Y. WANG, P.E.  
FLORIDA REGISTRATION  
P.E. #55983  
C.A.N. 28877

PRODUCT CONTROL APPROVAL:

**FL #26965**

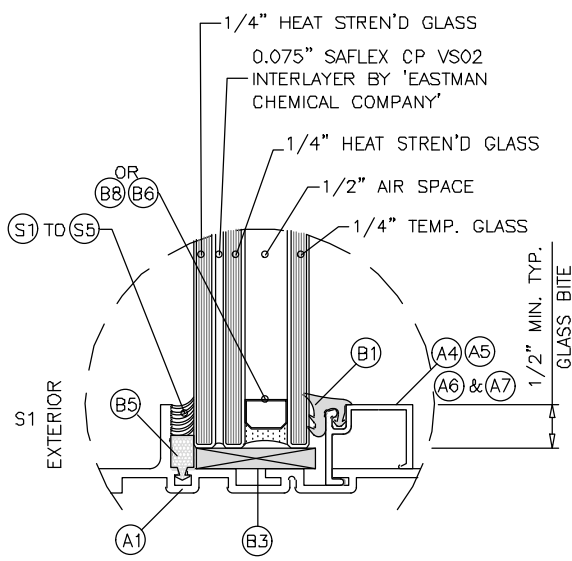
DRAWING No:

22 **2 OF 16**

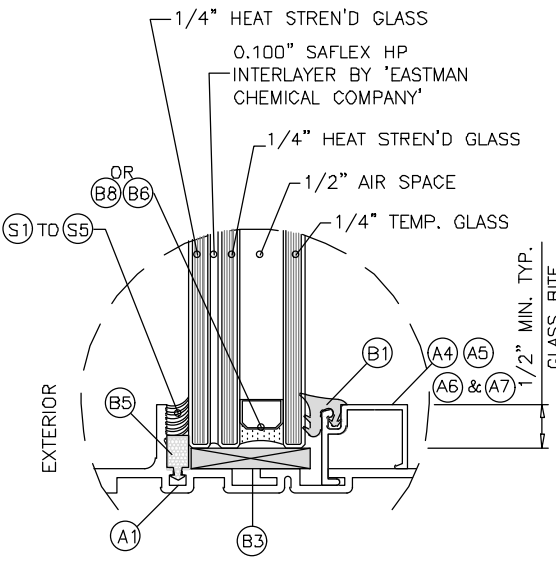
2019



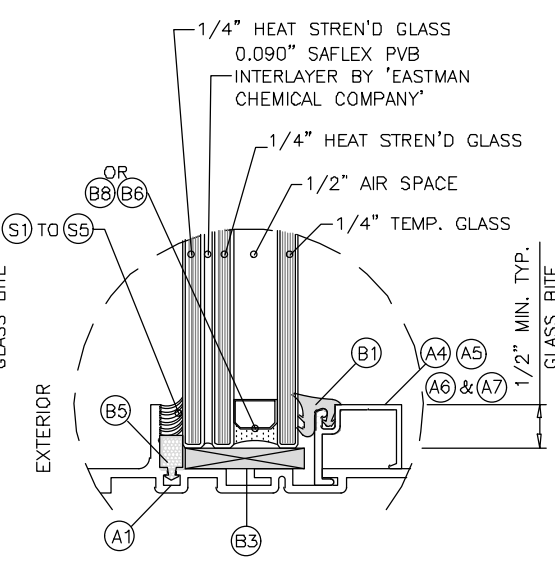
| ANCHOR TYPE | SUBSTRATE | NO. ANCHORS REQUIRED AT TRANSOM MULLION END |
|-------------|-----------|---------------------------------------------|
| AA          | WOOD      | 5                                           |
| A           | BLOCK     | 5                                           |
| A           | CONCRETE  | 4                                           |
| BB          | WOOD      | 4                                           |
| B           | BLOCK     | 5                                           |
| B           | CONCRETE  | 3                                           |
| C           | METAL     | 3                                           |



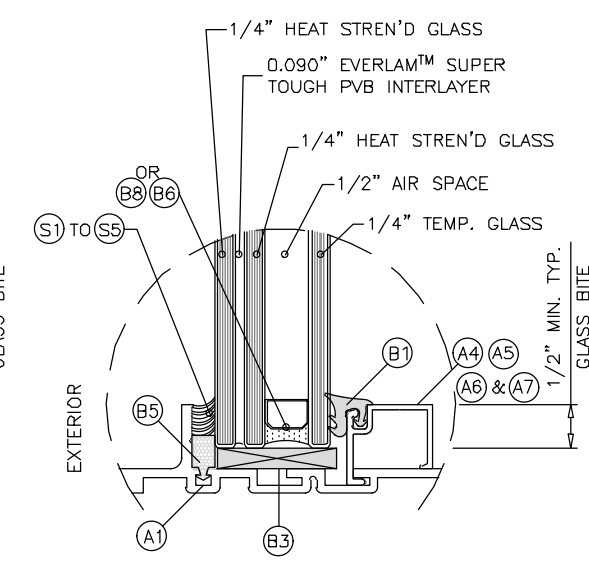
**GLASS TYPE 'A'**  
1-5/16" INSULATED LAMINATED



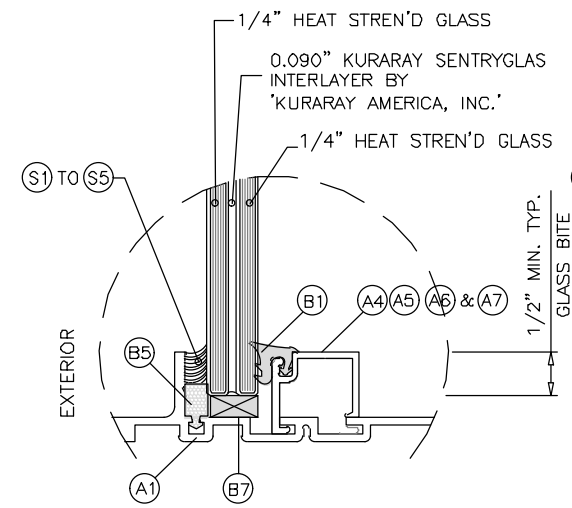
**GLASS TYPE 'B'**  
1-5/16" INSULATED LAMINATED



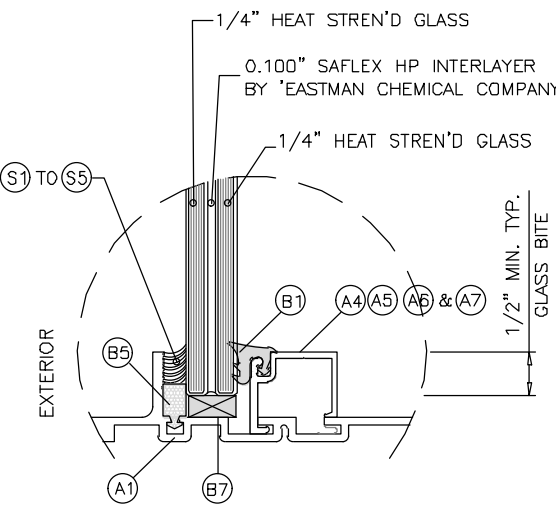
**GLASS TYPE 'C'**  
1-5/16" INSULATED LAMINATED



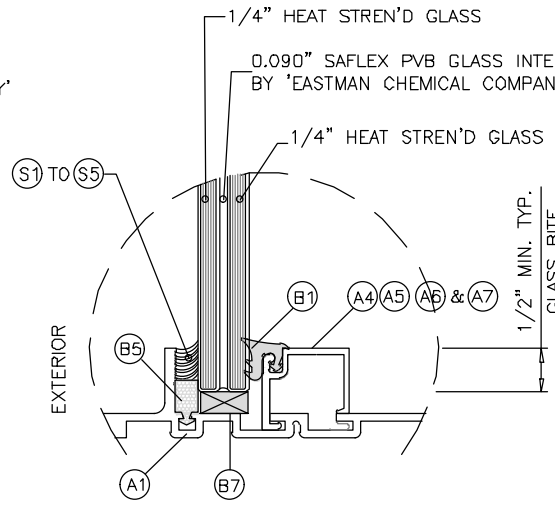
**GLASS TYPE 'G'**  
1-5/16" INSULATED LAMINATED



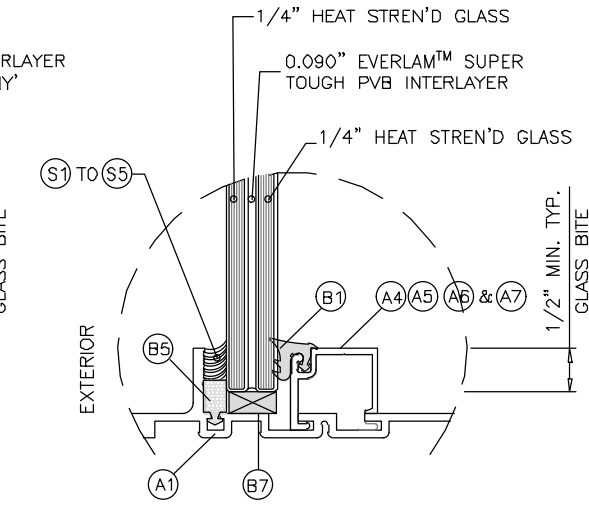
**GLASS TYPE 'D'**  
9/16" LAMINATED LAMINATED



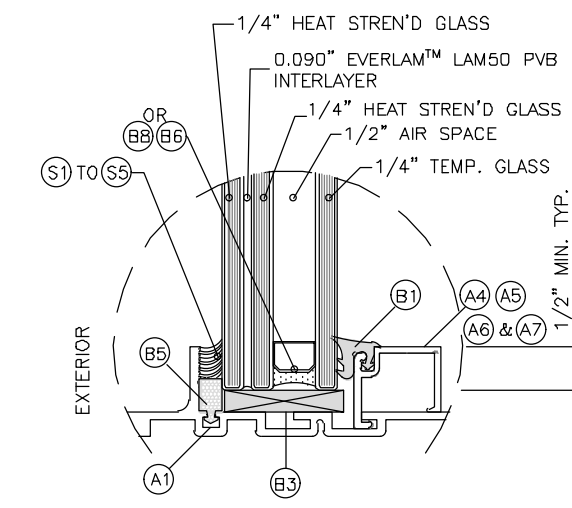
**GLASS TYPE 'E'**  
9/16" LAMINATED LAMINATED



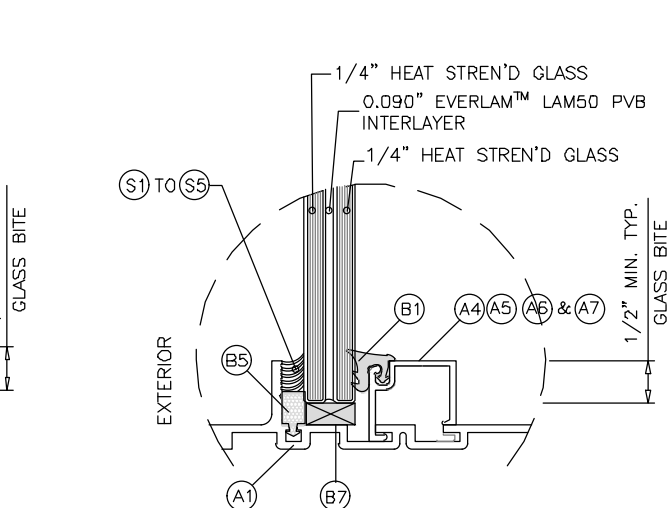
**GLASS TYPE 'F'**  
9/16" LAMINATED LAMINATED



**GLASS TYPE 'H'**  
9/16" LAMINATED LAMINATED



**GLASS TYPE 'J'**  
1-5/16" INSULATED LAMINATED



**GLASS TYPE 'K'**  
9/16" LAMINATED LAMINATED

SILICONE SEALANT OPTIONS:  
(S1) DOWSIL 995  
(S2) GE SCS2000  
(S3) TREMCO PROGLAZE SSG  
(S4) DOWSIL 795  
(S5) TREMCO SPECTREM 2  
(S6) DOWSIL 983

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STAMP:  
YIN PING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55583  
C.A.N. 28677  
No 55583  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

September 6th, 2022  
PRODUCT CONTROL APPROVAL:

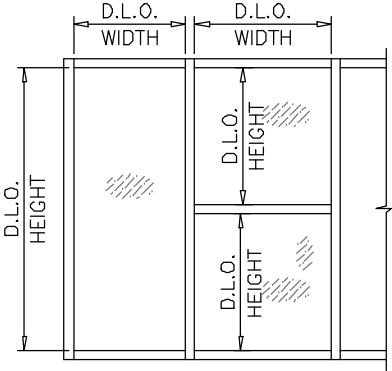
**FL #26965**

|                  |                |
|------------------|----------------|
| DRAWN: YIN/I.M.  | DRAWING No:    |
| DATE: 08.26.2022 | <b>3 OF 16</b> |
| DWG: AD18-17     |                |

| DESIGN LOAD CAPACITY – PSF |               |                |          |                |          |                |          |                |          |                |          |
|----------------------------|---------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| NOMINAL DIMS.              |               | GLASS TYPE 'A' |          | GLASS TYPE 'B' |          | GLASS TYPE 'C' |          | GLASS TYPE 'G' |          | GLASS TYPE 'J' |          |
| D.L.O. WIDTH               | D.L.O. HEIGHT | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) |
| 36"                        | 80"           | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 45"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 48"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 51"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 54"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 57"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 60"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 63"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 66"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 69"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 72"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 86"           | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 45"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 48"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 51"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 57"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 60"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 63"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 66"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 69"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 72"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 92"           | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39.25"                     |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 45.25"                     |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 48"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 51"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 57.25"                     |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 60"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 63"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 66"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 98"           | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 45"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 51"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 57"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 60"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 63"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 66"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 66"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |

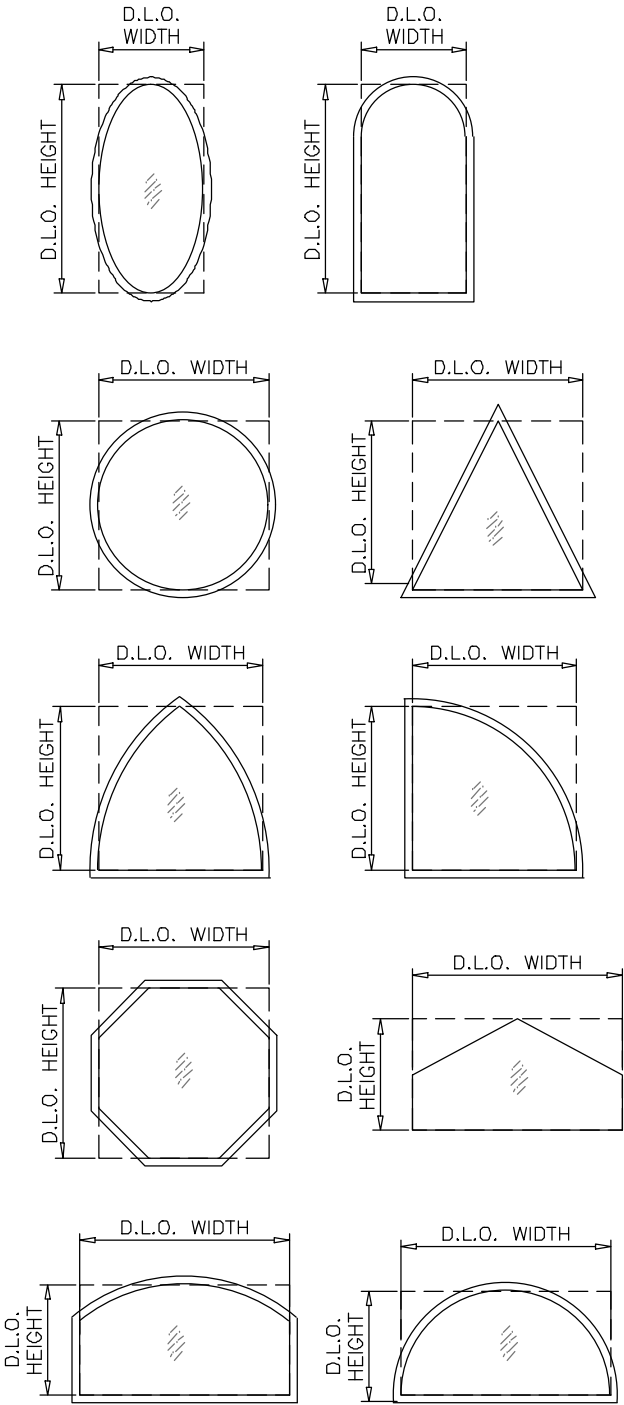
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300–09 (3 SEC. GUSTS)

| DESIGN LOAD CAPACITY – PSF |               |                |          |                |          |                |          |                |          |                |          |
|----------------------------|---------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|
| NOMINAL DIMS.              |               | GLASS TYPE 'A' |          | GLASS TYPE 'B' |          | GLASS TYPE 'C' |          | GLASS TYPE 'G' |          | GLASS TYPE 'K' |          |
| D.L.O. WIDTH               | D.L.O. HEIGHT | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) | EXT. (+)       | INT. (–) |
| 35"                        | 104"          | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | –              | –        |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 51"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 32"                        | 110"          | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | 70.0           | 85.0     | 65.0           | 75.0     |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 51"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 116"          | 85.0           | 105.0    | 65.0           | 80.0     | 60.0           | 75.0     | –              | –        | –              | –        |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 51"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 54"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 122"          | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 52.5"                      |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 128"          | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 134"          | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 39"                        |               | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 45"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 48"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 36"                        | 140"          | 85.0           | 105.0    | 65.0           | 80.0     | –              | –        | –              | –        | –              | –        |
| 39"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 42"                        |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |
| 45.5"                      |               | 85.0           | 105.0    | –              | –        | –              | –        | –              | –        | –              | –        |



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE  
VERIFIED BY INSCRIBING PICTURE 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  
USE ANCHOR TYPES A, B OR C AT 4" FROM FRAME ENDS AND 12" O.C. MAX. SPACING.



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PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**

**Resistor**  
PRODUCT SERIES

| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE. 301  
MIRAMAR, FL 33027  
P: (305) 271-0117  
Email: [mcy@mcyengineering.com](mailto:mcy@mcyengineering.com)  
[www.MCYEngineering.com](http://www.MCYEngineering.com)

STAMP:



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.

DRAWING No:

DATE: 08.26.2022

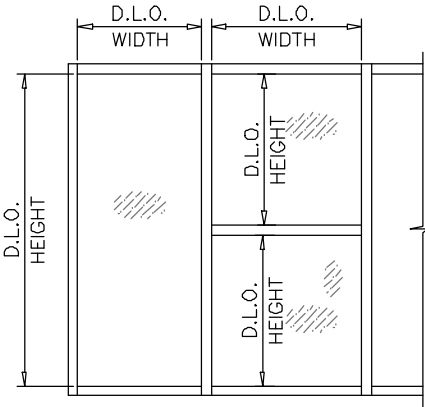
**4 OF 16**

DWG: AD18–17

| DESIGN LOAD CAPACITY – PSF (GLASS) |               |                |                |                |                |       |
|------------------------------------|---------------|----------------|----------------|----------------|----------------|-------|
| D.L.O. SIZES                       |               | GLASS TYPE     |                |                |                |       |
| D.L.O. WIDTH                       | D.L.O. HEIGHT | GLASS TYPE 'D' | GLASS TYPE 'E' | GLASS TYPE 'F' | GLASS TYPE 'H' |       |
| (IN)                               | (IN)          | +/- PSF        | +/- PSF        | +/- PSF        | + PSF          | – PSF |
| 36                                 | 80            | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 48                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 66                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 72                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 86            | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 48                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 66                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 72                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 92            | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 45.25                              |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 66                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 98            | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 66                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 66                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 104           | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 65                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 65                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 110           | 100.0          | 100.0          | 87.0           | 70.0           | 85.0  |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 60                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 116           | 100.0          | 100.0          | 87.0           | –              | –     |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 58                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 122           | 100.0          | 100.0          | 87.0           | –              | –     |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 54                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |

| DESIGN LOAD CAPACITY – PSF (GLASS) |               |                |                |                |                |       |
|------------------------------------|---------------|----------------|----------------|----------------|----------------|-------|
| D.L.O. SIZES                       |               | GLASS TYPE     |                |                |                |       |
| D.L.O. WIDTH                       | D.L.O. HEIGHT | GLASS TYPE 'D' | GLASS TYPE 'E' | GLASS TYPE 'F' | GLASS TYPE 'H' |       |
| (IN)                               | (IN)          | +/- PSF        | +/- PSF        | +/- PSF        | + PSF          | – PSF |
| 36                                 | 128           | 100.0          | 100.0          | 87.0           | –              | –     |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 52                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 134           | 100.0          | 100.0          | 87.0           | –              | –     |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 50                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 36                                 | 140           | 100.0          | 100.0          | 87.0           | –              | –     |
| 42                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |
| 48                                 |               | 100.0          | 100.0          | 87.0           | –              | –     |

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



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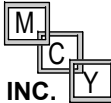
PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**



| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:



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STAMP:



September 6th, 2022

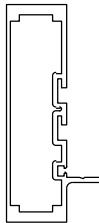
PRODUCT CONTROL APPROVAL:

**FL #26965**

|                  |                |
|------------------|----------------|
| DRAWN: YIN/I.M.  | DRAWING No:    |
| DATE: 08.26.2022 | <b>5 OF 16</b> |
| DWG: AD18–17     |                |

| MULLION LOAD CAPACITY – PSF<br>WITH/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”          | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 42”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 48”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 54”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 60”                                                                  |              | 65.0                | 74.0    | 85.0                   | 105.0   | 85.0                   | 104.0   |
| 66”                                                                  |              | 65.0                | 67.0    | 85.0                   | 105.0   | 85.0                   | 95.0    |
| 72”                                                                  |              | 62.0                | 62.0    | 85.0                   | 105.0   | 85.0                   | 87.0    |
| 24”                                                                  | 84”          | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 42”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 48”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 54”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 60”                                                                  |              | 65.0                | 72.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 66”                                                                  |              | 65.0                | 65.0    | 85.0                   | 98.0    | 85.0                   | 97.0    |
| 72”                                                                  |              | 59.0                | 59.0    | 85.0                   | 93.0    | 85.0                   | 88.0    |
| 24”                                                                  | 90”          | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 42”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 48”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 54”                                                                  |              | 65.0                | 71.0    | 85.0                   | 98.0    | 85.0                   | 105.0   |
| 60”                                                                  |              | 63.0                | 63.0    | 85.0                   | 90.0    | 85.0                   | 100.0   |
| 66”                                                                  |              | 57.0                | 57.0    | 83.0                   | 83.0    | 85.0                   | 90.0    |
| 72”                                                                  |              | –                   | –       | 79.0                   | 79.0    | 82.0                   | 82.0    |
| 24”                                                                  | 96”          | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 42”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 48”                                                                  |              | 65.0                | 71.0    | 85.0                   | 95.0    | 85.0                   | 105.0   |
| 54”                                                                  |              | 62.0                | 62.0    | 85.0                   | 85.0    | 85.0                   | 105.0   |
| 60”                                                                  |              | 55.0                | 55.0    | 78.0                   | 78.0    | 85.0                   | 94.0    |
| 66”                                                                  |              | 50.0                | 50.0    | 72.0                   | 72.0    | 85.0                   | 85.0    |
| 72”                                                                  |              | –                   | –       | 67.0                   | 67.0    | 77.0                   | 77.0    |
| 24”                                                                  | 102”         | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 42”                                                                  |              | 65.0                | 69.0    | 85.0                   | 96.0    | 85.0                   | 105.0   |
| 48”                                                                  |              | 59.0                | 59.0    | 84.0                   | 84.0    | 85.0                   | 105.0   |
| 54”                                                                  |              | 52.0                | 52.0    | 75.0                   | 75.0    | 85.0                   | 100.0   |
| 60”                                                                  |              | 46.0                | 46.0    | 68.0                   | 68.0    | 85.0                   | 88.0    |
| 66”                                                                  |              | –                   | –       | 63.0                   | 63.0    | 80.0                   | 80.0    |
| 72”                                                                  |              | –                   | –       | 58.0                   | 58.0    | 72.0                   | 72.0    |

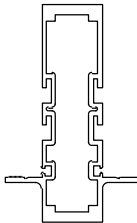
| MULLION LOAD CAPACITY – PSF<br>WITH/WITHOUT INTERMEDIATE HORIZONTALS |              |                     |         |                        |         |                        |         |
|----------------------------------------------------------------------|--------------|---------------------|---------|------------------------|---------|------------------------|---------|
| NOMINAL DIMS.                                                        |              | WITHOUT REINFORCING |         | WITH ALUM. REINFORCING |         | WITH STEEL REINFORCING |         |
| WIDTH (W)                                                            | FRAME HEIGHT | EXT.(+)             | INT.(–) | EXT.(+)                | INT.(–) | EXT.(+)                | INT.(–) |
| 24”                                                                  | 108”         | 65.0                | 80.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 65.0                | 70.0    | 85.0                   | 101.0   | 85.0                   | 105.0   |
| 36”                                                                  |              | 58.0                | 58.0    | 85.0                   | 85.0    | 85.0                   | 105.0   |
| 42”                                                                  |              | 50.0                | 50.0    | 74.0                   | 74.0    | 85.0                   | 105.0   |
| 48”                                                                  |              | 44.0                | 44.0    | 66.0                   | 66.0    | 85.0                   | 94.0    |
| 54”                                                                  |              | –                   | –       | 60.0                   | 60.0    | 84.0                   | 84.0    |
| 60”                                                                  |              | –                   | –       | 55.0                   | 55.0    | 75.0                   | 75.0    |
| 66”                                                                  |              | –                   | –       | 55.0                   | 55.0    | 75.0                   | 75.0    |
| 24”                                                                  | 114”         | 65.0                | 74.0    | 85.0                   | 105.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 59.0                | 59.0    | 85.0                   | 91.0    | 85.0                   | 105.0   |
| 36”                                                                  |              | 50.0                | 50.0    | 76.0                   | 76.0    | 85.0                   | 105.0   |
| 42”                                                                  |              | 42.0                | 42.0    | 66.0                   | 66.0    | 85.0                   | 102.0   |
| 48”                                                                  |              | 37.0                | 37.0    | 59.0                   | 59.0    | 85.0                   | 89.0    |
| 54”                                                                  |              | –                   | –       | 53.0                   | 53.0    | 79.0                   | 79.0    |
| 60”                                                                  |              | –                   | –       | 49.0                   | 49.0    | 71.0                   | 71.0    |
| 66”                                                                  |              | –                   | –       | 49.0                   | 49.0    | 71.0                   | 71.0    |
| 24”                                                                  | 120”         | 64.0                | 64.0    | 85.0                   | 101.0   | 85.0                   | 105.0   |
| 30”                                                                  |              | 51.0                | 51.0    | 82.0                   | 82.0    | 85.0                   | 105.0   |
| 36”                                                                  |              | 42.0                | 42.0    | 69.0                   | 69.0    | 85.0                   | 105.0   |
| 42”                                                                  |              | 36.0                | 36.0    | 60.0                   | 60.0    | 85.0                   | 97.0    |
| 48”                                                                  |              | 32.0                | 32.0    | 53.0                   | 53.0    | 83.0                   | 85.0    |
| 54”                                                                  |              | –                   | –       | 48.0                   | 48.0    | 76.0                   | 75.0    |
| 60”                                                                  |              | –                   | –       | 48.0                   | 48.0    | 76.0                   | 75.0    |
| 66”                                                                  |              | –                   | –       | 48.0                   | 48.0    | 76.0                   | 75.0    |
| 24”                                                                  | 126”         | 37.0                | 37.0    | 62.0                   | 62.0    | 85.0                   | 105.0   |
| 30”                                                                  |              | 31.0                | 31.0    | 53.0                   | 53.0    | 85.0                   | 90.0    |
| 36”                                                                  |              | –                   | –       | 47.0                   | 47.0    | 79.0                   | 79.0    |
| 42”                                                                  |              | –                   | –       | 47.0                   | 47.0    | 79.0                   | 79.0    |
| 48”                                                                  |              | –                   | –       | 43.0                   | 43.0    | 70.0                   | 70.0    |
| 54”                                                                  |              | –                   | –       | 43.0                   | 43.0    | 70.0                   | 70.0    |
| 60”                                                                  |              | –                   | –       | 43.0                   | 43.0    | 70.0                   | 70.0    |
| 66”                                                                  |              | –                   | –       | 43.0                   | 43.0    | 70.0                   | 70.0    |
| 24”                                                                  | 132”         | 32.0                | 32.0    | 53.0                   | 53.0    | 85.0                   | 96.0    |
| 30”                                                                  |              | 27.0                | 27.0    | 46.0                   | 46.0    | 82.0                   | 82.0    |
| 36”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 42”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 48”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 54”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 60”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 66”                                                                  |              | –                   | –       | 41.0                   | 41.0    | 72.0                   | 72.0    |
| 24”                                                                  | 138”         | 28.0                | 28.0    | 47.0                   | 47.0    | 85.0                   | 87.0    |
| 30”                                                                  |              | –                   | –       | 40.0                   | 40.0    | 75.0                   | 75.0    |
| 36”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 42”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 48”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 54”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 60”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 66”                                                                  |              | –                   | –       | 36.0                   | 36.0    | 66.0                   | 66.0    |
| 24”                                                                  | 144”         | 25.0                | 25.0    | 41.0                   | 41.0    | 78.0                   | 78.0    |
| 30”                                                                  |              | –                   | –       | 35.0                   | 35.0    | 67.0                   | 67.0    |
| 36”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |
| 42”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |
| 48”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |
| 54”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |
| 60”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |
| 66”                                                                  |              | –                   | –       | 31.0                   | 31.0    | 58.0                   | 58.0    |



FRAME JAMB  
DOOR MULLION

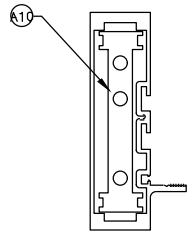
|       | Ix IN^4 | Sx IN^3 |
|-------|---------|---------|
| 3001R | 4.0776  | 1.7355  |

WITHOUT REINFORCING



INTERMEDIATE  
MULLION

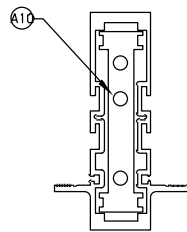
|       | Ix IN^4 | Sx IN^3 |
|-------|---------|---------|
| 3002R | 4.2973  | 1.7729  |



FRAME JAMB

|       | Ix IN^4 | Sx IN^3 |
|-------|---------|---------|
| 3001R | 4.0776  | 1.7355  |
| 3104R | 2.6967  | 1.4249  |
| TOTAL | 6.7743  |         |

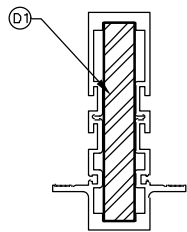
WITH ALUM.  
REINFORCING



INTERMEDIATE  
MULLION

|       | Ix IN^4 | Sx IN^3 |
|-------|---------|---------|
| 3002R | 4.2973  | 1.7729  |
| 3104R | 2.6967  | 1.4249  |
| TOTAL | 6.9940  |         |

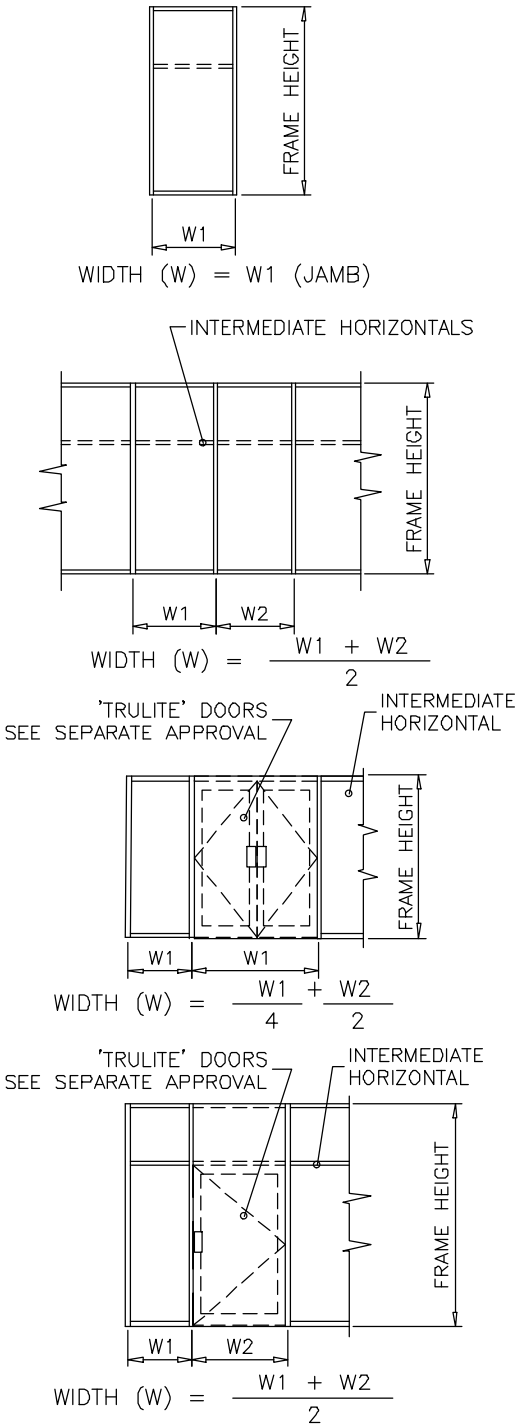
WITH ALUM.  
REINFORCING



INTERMEDIATE  
MULLION

|          | Ix IN^4 | Sx IN^3    |
|----------|---------|------------|
| 3002R    | 4.2973  | 1.7729     |
| STL. BAR | 9.6670  | (IN ALUM.) |
| TOTAL    | 13.964  |            |

WITH STL.  
REINFORCING





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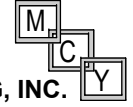
PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**

**Resistor**  
PRODUCT SERIES

| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE. 301  
MIRAMAR, FL 33027  
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[www.MCYEngineering.com](http://www.MCYEngineering.com)

STAMP:



September. 6th, 2022

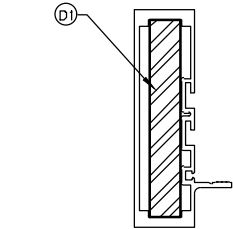
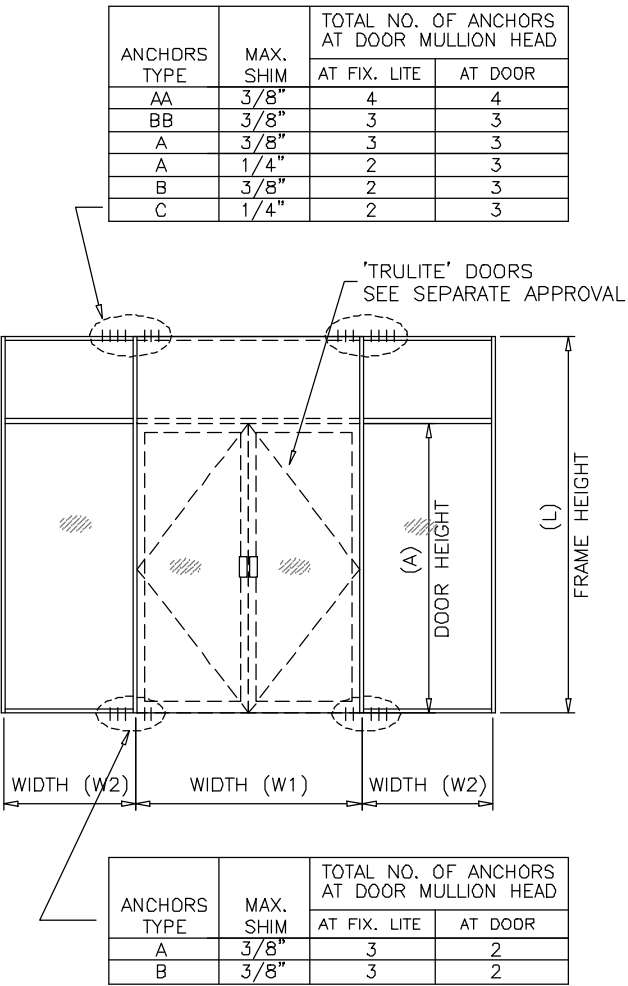
PRODUCT CONTROL APPROVAL:

**FL #26965**

|                  |                |
|------------------|----------------|
| DRAWN: YIN/I.M.  | DRAWING No:    |
| DATE: 08.26.2022 | <b>6 OF 16</b> |
| DWG: AD18-17     |                |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |               |               |               |                     |         |
|--------------------------------------------------------------------|---------------|---------------|---------------|---------------------|---------|
| NOMINAL DIMS.                                                      |               |               |               | WITH<br>REINFORCING |         |
| WIDTH<br>(W1)                                                      | WIDTH<br>(W2) | HEIGHT<br>(A) | HEIGHT<br>(L) | EXT.(+)             | INT.(–) |
| 72"                                                                | 30"           | 84"           | 108"          | 60.0                | 75.0    |
|                                                                    | 36"           |               |               | 60.0                | 73.0    |
|                                                                    | 42"           |               |               | 60.0                | 69.0    |
|                                                                    | 48"           |               |               | 60.0                | 65.0    |
|                                                                    | 54"           |               |               | 60.0                | 62.0    |
|                                                                    | 60"           |               |               | 59.0                | 59.0    |
| 84"                                                                | 30"           |               |               | 60.0                | 70.0    |
|                                                                    | 36"           |               |               | 60.0                | 66.0    |
|                                                                    | 42"           |               |               | 60.0                | 62.0    |
|                                                                    | 48"           |               |               | 59.0                | 59.0    |
|                                                                    | 54"           |               |               | 56.0                | 56.0    |
|                                                                    | 60"           |               |               | 54.0                | 54.0    |
| 96"                                                                | 30"           |               |               | 60.0                | 63.0    |
|                                                                    | 42"           |               |               | 57.0                | 57.0    |
|                                                                    | 48"           |               |               | 55.0                | 55.0    |
|                                                                    | 54"           |               |               | 52.0                | 52.0    |
|                                                                    | 60"           |               |               | 50.0                | 50.0    |
|                                                                    | 60"           |               |               | 50.0                | 50.0    |
| 72"                                                                | 30"           | 84"           | 114"          | 60.0                | 75.0    |
|                                                                    | 42"           |               |               | 60.0                | 66.0    |
|                                                                    | 48"           |               |               | 60.0                | 62.0    |
|                                                                    | 54"           |               |               | 59.0                | 59.0    |
|                                                                    | 60"           |               |               | 56.0                | 56.0    |
|                                                                    | 60"           |               |               | 60.0                | 63.0    |
| 84"                                                                | 36"           |               |               | 60.0                | 60.0    |
|                                                                    | 42"           |               |               | 57.0                | 57.0    |
|                                                                    | 48"           |               |               | 54.0                | 54.0    |
|                                                                    | 54"           |               |               | 52.0                | 52.0    |
|                                                                    | 60"           |               |               | 48.0                | 48.0    |
|                                                                    | 60"           |               |               | 60.0                | 72.0    |
| 72"                                                                | 36"           |               |               | 60.0                | 67.0    |
|                                                                    | 42"           |               |               | 60.0                | 63.0    |
|                                                                    | 54"           |               |               | 57.0                | 57.0    |
|                                                                    | 60"           |               |               | 54.0                | 54.0    |
|                                                                    | 60"           |               |               | 60.0                | 65.0    |
|                                                                    | 60"           |               |               | 60.0                | 61.0    |
| 84"                                                                | 36"           | 84"           | 120"          | 60.0                | 61.0    |
|                                                                    | 42"           |               |               | 58.0                | 58.0    |
|                                                                    | 48"           |               |               | 55.0                | 55.0    |
|                                                                    | 54"           |               |               | 52.0                | 52.0    |
|                                                                    | 60"           |               |               | 50.0                | 50.0    |
|                                                                    | 60"           |               |               | 59.0                | 59.0    |
| 96"                                                                | 30"           |               |               | 53.0                | 53.0    |
|                                                                    | 36"           |               |               | 50.0                | 50.0    |
|                                                                    | 42"           |               |               | 48.0                | 48.0    |
|                                                                    | 48"           |               |               | 45.0                | 45.0    |
|                                                                    | 54"           |               |               | 45.0                | 45.0    |
|                                                                    | 60"           |               |               | 48.0                | 48.0    |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |               |               |               |                     |         |
|--------------------------------------------------------------------|---------------|---------------|---------------|---------------------|---------|
| NOMINAL DIMS.                                                      |               |               |               | WITH<br>REINFORCING |         |
| WIDTH<br>(W1)                                                      | WIDTH<br>(W2) | HEIGHT<br>(A) | HEIGHT<br>(L) | EXT.(+)             | INT.(–) |
| 72"                                                                | 30"           | 84"           | 126"          | 60.0                | 69.0    |
|                                                                    | 36"           |               |               | 60.0                | 65.0    |
|                                                                    | 42"           |               |               | 60.0                | 61.0    |
|                                                                    | 48"           |               |               | 58.0                | 58.0    |
|                                                                    | 54"           |               |               | 54.0                | 54.0    |
|                                                                    | 60"           |               |               | 51.0                | 51.0    |
| 84"                                                                | 30"           |               |               | 60.0                | 62.0    |
|                                                                    | 36"           |               |               | 59.0                | 59.0    |
|                                                                    | 42"           |               |               | 56.0                | 56.0    |
|                                                                    | 48"           |               |               | 53.0                | 53.0    |
|                                                                    | 54"           |               |               | 50.0                | 50.0    |
|                                                                    | 60"           |               |               | 57.0                | 57.0    |
| 96"                                                                | 30"           |               |               | 54.0                | 54.0    |
|                                                                    | 36"           |               |               | 51.0                | 51.0    |
|                                                                    | 42"           |               |               | 50.0                | 50.0    |
|                                                                    | 48"           |               |               | 60.0                | 67.0    |
|                                                                    | 60"           |               |               | 60.0                | 62.0    |
|                                                                    | 60"           |               |               | 58.0                | 58.0    |
| 72"                                                                | 30"           | 84"           | 132"          | 55.0                | 55.0    |
|                                                                    | 36"           |               |               | 49.0                | 49.0    |
|                                                                    | 42"           |               |               | 60.0                | 60.0    |
|                                                                    | 48"           |               |               | 53.0                | 53.0    |
|                                                                    | 54"           |               |               | 50.0                | 50.0    |
|                                                                    | 60"           |               |               | 48.0                | 48.0    |
| 84"                                                                | 30"           |               |               | 56.0                | 56.0    |
|                                                                    | 36"           |               |               | 49.0                | 49.0    |
|                                                                    | 42"           |               |               | 60.0                | 62.0    |
|                                                                    | 48"           |               |               | 59.0                | 59.0    |
|                                                                    | 54"           |               |               | 52.0                | 52.0    |
|                                                                    | 60"           |               |               | 46.0                | 46.0    |
| 96"                                                                | 30"           |               |               | 55.0                | 55.0    |
|                                                                    | 36"           |               |               | 50.0                | 50.0    |
|                                                                    | 42"           |               |               | 48.0                | 48.0    |
|                                                                    | 48"           |               |               | 50.0                | 50.0    |
|                                                                    | 54"           |               |               | 56.0                | 56.0    |
|                                                                    | 60"           |               |               | 53.0                | 53.0    |
| 72"                                                                | 36"           | 84"           | 144"          | 47.0                | 47.0    |
|                                                                    | 42"           |               |               | 45.0                | 45.0    |
|                                                                    | 48"           |               |               | 50.0                | 50.0    |
|                                                                    | 54"           |               |               | 45.0                | 45.0    |
|                                                                    | 60"           |               |               | 45.0                | 45.0    |
|                                                                    | 60"           |               |               | 45.0                | 45.0    |
| 84"                                                                | 30"           |               |               | 45.0                | 45.0    |
|                                                                    | 36"           |               |               | 45.0                | 45.0    |
|                                                                    | 42"           |               |               | 50.0                | 50.0    |
|                                                                    | 48"           |               |               | 45.0                | 45.0    |
|                                                                    | 54"           |               |               | 50.0                | 50.0    |
|                                                                    | 60"           |               |               | 50.0                | 50.0    |
| 96"                                                                | 30"           |               |               | 59.0                | 59.0    |
|                                                                    | 36"           |               |               | 53.0                | 53.0    |
|                                                                    | 42"           |               |               | 50.0                | 50.0    |
|                                                                    | 48"           |               |               | 48.0                | 48.0    |
|                                                                    | 54"           |               |               | 48.0                | 48.0    |
|                                                                    | 60"           |               |               | 48.0                | 48.0    |



| DOOR MULLION |         |            |
|--------------|---------|------------|
|              | Ix IN^4 | Sx IN^3    |
| 3001R        | 4.0776  | 1.7355     |
| STL. BAR     | 9.6670  | (IN ALUM.) |
| TOTAL        | 13.7446 |            |



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PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
STOREFRONT WALL-LMI



| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

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

STAMP:



September. 6th. 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.

DATE: 08.26.2022

DWG: AD18-17

DRAWING No:

**7 OF 16**

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 90”        | 114”       | 60.0             | 73.0    |
|                                                                    | 36”        |            |            | 60.0             | 69.0    |
|                                                                    | 42”        |            |            | 60.0             | 65.0    |
|                                                                    | 48”        |            |            | 60.0             | 61.0    |
|                                                                    | 54”        |            |            | 58.0             | 58.0    |
|                                                                    | 60”        |            |            | 55.0             | 55.0    |
| 84”                                                                | 30”        |            |            | 60.0             | 66.0    |
|                                                                    | 36”        |            |            | 60.0             | 62.0    |
|                                                                    | 42”        |            |            | 59.0             | 59.0    |
|                                                                    | 48”        |            |            | 56.0             | 56.0    |
|                                                                    | 54”        |            |            | 53.0             | 53.0    |
|                                                                    | 60”        |            |            | 51.0             | 51.0    |
| 96”                                                                | 30”        |            |            | 59.0             | 59.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 54.0             | 54.0    |
|                                                                    | 48”        |            |            | 51.0             | 51.0    |
|                                                                    | 54”        |            |            | 49.0             | 49.0    |
|                                                                    | 60”        |            |            | 47.0             | 47.0    |
| 72”                                                                | 30”        | 90”        | 120”       | 60.0             | 70.0    |
|                                                                    | 36”        |            |            | 60.0             | 66.0    |
|                                                                    | 42”        |            |            | 60.0             | 62.0    |
|                                                                    | 48”        |            |            | 59.0             | 59.0    |
|                                                                    | 54”        |            |            | 56.0             | 56.0    |
|                                                                    | 60”        |            |            | 53.0             | 53.0    |
| 84”                                                                | 30”        |            |            | 60.0             | 63.0    |
|                                                                    | 36”        |            |            | 60.0             | 60.0    |
|                                                                    | 42”        |            |            | 57.0             | 57.0    |
|                                                                    | 48”        |            |            | 54.0             | 54.0    |
|                                                                    | 54”        |            |            | 51.0             | 51.0    |
|                                                                    | 60”        |            |            | 49.0             | 49.0    |
| 96”                                                                | 30”        |            |            | 57.0             | 57.0    |
|                                                                    | 36”        |            |            | 55.0             | 55.0    |
|                                                                    | 42”        |            |            | 52.0             | 52.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 47.0             | 47.0    |
|                                                                    |            |            |            |                  |         |
| 72”                                                                | 30”        | 90”        | 126”       | 60.0             | 68.0    |
|                                                                    | 36”        |            |            | 60.0             | 64.0    |
|                                                                    | 42”        |            |            | 60.0             | 60.0    |
|                                                                    | 48”        |            |            | 57.0             | 57.0    |
|                                                                    | 54”        |            |            | 54.0             | 54.0    |
|                                                                    | 60”        |            |            | 51.0             | 51.0    |
| 84”                                                                | 30”        |            |            | 60.0             | 61.0    |
|                                                                    | 36”        |            |            | 58.0             | 58.0    |
|                                                                    | 42”        |            |            | 55.0             | 55.0    |
|                                                                    | 48”        |            |            | 52.0             | 52.0    |
|                                                                    | 54”        |            |            | 49.0             | 49.0    |
|                                                                    | 60”        |            |            | 47.0             | 47.0    |
| 96”                                                                | 30”        |            |            | 55.0             | 55.0    |
|                                                                    | 36”        |            |            | 53.0             | 53.0    |
|                                                                    | 42”        |            |            | 50.0             | 50.0    |
|                                                                    | 48”        |            |            | 48.0             | 48.0    |
|                                                                    |            |            |            |                  |         |
|                                                                    |            |            |            |                  |         |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 90”        | 132”       | 60.0             | 66.0    |
|                                                                    | 36”        |            |            | 60.0             | 62.0    |
|                                                                    | 42”        |            |            | 58.0             | 58.0    |
|                                                                    | 48”        |            |            | 56.0             | 56.0    |
|                                                                    | 54”        |            |            | 52.0             | 52.0    |
|                                                                    | 60”        |            |            | 49.0             | 49.0    |
| 84”                                                                | 30”        |            |            | 59.0             | 59.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 48.0             | 48.0    |
|                                                                    |            |            |            |                  |         |
| 96”                                                                | 30”        |            |            | 54.0             | 54.0    |
|                                                                    | 36”        |            |            | 51.0             | 51.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
| 72”                                                                | 30”        | 90”        | 138”       | 60.0             | 64.0    |
|                                                                    | 36”        |            |            | 60.0             | 60.0    |
|                                                                    | 42”        |            |            | 56.0             | 56.0    |
|                                                                    | 48”        |            |            | 52.0             | 52.0    |
|                                                                    | 54”        |            |            | 49.0             | 49.0    |
|                                                                    | 60”        |            |            | 47.0             | 47.0    |
| 84”                                                                | 30”        |            |            | 57.0             | 57.0    |
|                                                                    | 36”        |            |            | 54.0             | 54.0    |
|                                                                    | 42”        |            |            | 51.0             | 51.0    |
|                                                                    | 48”        |            |            | 48.0             | 48.0    |
|                                                                    |            |            |            |                  |         |
|                                                                    |            |            |            |                  |         |
| 96”                                                                | 30”        |            |            | 52.0             | 52.0    |
|                                                                    | 36”        |            |            | 49.0             | 49.0    |
|                                                                    | 42”        |            |            | 46.0             | 46.0    |
| 72”                                                                | 30”        | 90”        | 144”       | 52.0             | 52.0    |
|                                                                    | 36”        |            |            | 49.0             | 49.0    |
|                                                                    | 42”        |            |            | 47.0             | 47.0    |
|                                                                    | 48”        |            |            | 47.0             | 47.0    |
|                                                                    | 54”        |            |            |                  |         |
|                                                                    | 60”        |            |            |                  |         |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH TRANSOM |            |            |            |                  |         |
|------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                              |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                 | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                        | 30”        | 96”        | 120”       | 60.0             | 69.0    |
|                                                            | 36”        |            |            | 60.0             | 65.0    |
|                                                            | 42”        |            |            | 60.0             | 61.0    |
|                                                            | 48”        |            |            | 58.0             | 58.0    |
|                                                            | 54”        |            |            | 55.0             | 55.0    |
|                                                            | 60”        |            |            | 52.0             | 52.0    |
| 84”                                                        | 30”        |            |            | 60.0             | 62.0    |
|                                                            | 36”        |            |            | 59.0             | 59.0    |
|                                                            | 42”        |            |            | 56.0             | 56.0    |
|                                                            | 48”        |            |            | 53.0             | 53.0    |
|                                                            | 54”        |            |            | 50.0             | 50.0    |
|                                                            | 60”        |            |            | 49.0             | 49.0    |
| 96”                                                        | 30”        |            |            | 56.0             | 56.0    |
|                                                            | 36”        |            |            | 53.0             | 53.0    |
|                                                            | 42”        |            |            | 51.0             | 51.0    |
|                                                            | 48”        |            |            | 49.0             | 49.0    |
|                                                            | 54”        |            |            | 47.0             | 47.0    |
|                                                            |            |            |            |                  |         |
| 72”                                                        | 30”        | 96”        | 126”       | 60.0             | 67.0    |
|                                                            | 36”        |            |            | 60.0             | 63.0    |
|                                                            | 42”        |            |            | 59.0             | 59.0    |
|                                                            | 48”        |            |            | 56.0             | 56.0    |
|                                                            | 54”        |            |            | 53.0             | 53.0    |
|                                                            | 60”        |            |            | 50.0             | 50.0    |
| 84”                                                        | 30”        |            |            | 60.0             | 60.0    |
|                                                            | 36”        |            |            | 57.0             | 57.0    |
|                                                            | 42”        |            |            | 54.0             | 54.0    |
|                                                            | 48”        |            |            | 51.0             | 51.0    |
|                                                            | 54”        |            |            | 49.0             | 49.0    |
|                                                            | 60”        |            |            | 46.0             | 46.0    |
| 96”                                                        | 30”        |            |            | 54.0             | 54.0    |
|                                                            | 36”        |            |            | 52.0             | 52.0    |
|                                                            | 42”        |            |            | 49.0             | 49.0    |
|                                                            | 48”        |            |            | 48.0             | 48.0    |
|                                                            |            |            |            |                  |         |
|                                                            |            |            |            |                  |         |
| 72”                                                        | 30”        | 96”        | 132”       | 60.0             | 65.0    |
|                                                            | 36”        |            |            | 60.0             | 61.0    |
|                                                            | 42”        |            |            | 57.0             | 57.0    |
|                                                            | 48”        |            |            | 54.0             | 54.0    |
|                                                            | 54”        |            |            | 51.0             | 51.0    |
|                                                            | 60”        |            |            | 49.0             | 49.0    |
| 84”                                                        | 30”        |            |            | 58.0             | 58.0    |
|                                                            | 36”        |            |            | 55.0             | 55.0    |
|                                                            | 42”        |            |            | 52.0             | 52.0    |
|                                                            | 48”        |            |            | 49.0             | 49.0    |
|                                                            | 54”        |            |            | 47.0             | 47.0    |
|                                                            |            |            |            |                  |         |
| 96”                                                        | 30”        |            |            | 53.0             | 53.0    |
|                                                            | 36”        |            |            | 50.0             | 50.0    |
|                                                            | 42”        |            |            | 48.0             | 48.0    |
|                                                            |            |            |            |                  |         |
|                                                            |            |            |            |                  |         |
|                                                            |            |            |            |                  |         |

\*REFER TO SHEET 7 FOR ELEVATION

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 96”        | 138”       | 60.0             | 63.0    |
|                                                                    | 36”        |            |            | 59.0             | 59.0    |
|                                                                    | 42”        |            |            | 56.0             | 56.0    |
|                                                                    | 48”        |            |            | 53.0             | 53.0    |
|                                                                    | 54”        |            |            | 50.0             | 51.0    |
|                                                                    | 60”        |            |            | 48.0             | 48.0    |
| 84”                                                                | 30”        |            |            | 51.0             | 51.0    |
|                                                                    | 36”        |            |            | 48.0             | 48.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
| 96”                                                                | 30”        |            |            | 60.0             | 60.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
| 72”                                                                | 30”        | 96”        | 144”       | 60.0             | 60.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 48.0             | 48.0    |
|                                                                    | 60”        |            |            | 48.0             | 48.0    |
| 84”                                                                | 30”        |            |            | 55.0             | 55.0    |
|                                                                    | 36”        |            |            | 51.0             | 51.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
| 96”                                                                | 30”        |            |            | 50.0             | 50.0    |
|                                                                    | 36”        |            |            |                  |         |
|                                                                    |            |            |            |                  |         |



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PRODUCT:

Resistor

3000R ALUMINUM

STOREFRONT WALL-LMI

Resistor

PRODUCT SERIES

|      |                              |
|------|------------------------------|
| REVN | DATE/REMARKS                 |
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:

M

C

Y

MCY ENGINEERING, INC.

GLAZING CONSULTANT

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

STAMP:

YIPING WANG, P.E.

FLORIDA REGISTRATION

PE 755583

C.A.N. 28677

YIPING WANG

STATE OF FLORIDA

PROFESSIONAL ENGINEER

September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #26965

|                  |             |
|------------------|-------------|
| DRAWN: YIN/I.M.  | DRAWING No: |
| DATE: 08.26.2022 | 8 OF 16     |
| DWG: AD18–17     |             |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 102”       | 126”       | 60.0             | 66.0    |
|                                                                    | 36”        |            |            | 60.0             | 62.0    |
|                                                                    | 42”        |            |            | 58.0             | 58.0    |
|                                                                    | 48”        |            |            | 55.0             | 55.0    |
|                                                                    | 54”        |            |            | 52.0             | 52.0    |
|                                                                    | 60”        |            |            | 50.0             | 50.0    |
| 84”                                                                | 30”        |            |            | 59.0             | 59.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 48.0             | 48.0    |
|                                                                    | 60”        |            |            | 46.0             | 46.0    |
| 96”                                                                | 30”        |            |            | 53.0             | 53.0    |
|                                                                    | 36”        |            |            | 51.0             | 51.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
|                                                                    | 48”        |            |            | 46.0             | 46.0    |
| 72”                                                                | 30”        | 102”       | 132”       | 60.0             | 63.0    |
|                                                                    | 36”        |            |            | 60.0             | 60.0    |
|                                                                    | 42”        |            |            | 56.0             | 56.0    |
|                                                                    | 48”        |            |            | 53.0             | 53.0    |
|                                                                    | 54”        |            |            | 50.0             | 50.0    |
|                                                                    | 60”        |            |            | 48.0             | 48.0    |
| 84”                                                                | 30”        |            |            | 57.0             | 57.0    |
|                                                                    | 36”        |            |            | 54.0             | 54.0    |
|                                                                    | 42”        |            |            | 51.0             | 51.0    |
|                                                                    | 48”        |            |            | 48.0             | 48.0    |
|                                                                    | 54”        |            |            | 46.0             | 46.0    |
|                                                                    |            |            |            |                  |         |
| 96”                                                                | 30”        |            |            | 52.0             | 52.0    |
|                                                                    | 36”        |            |            | 49.0             | 49.0    |
|                                                                    | 42”        |            |            | 47.0             | 47.0    |
|                                                                    |            |            |            |                  |         |
| 72”                                                                | 30”        | 102”       | 138”       | 60.0             | 61.0    |
|                                                                    | 36”        |            |            | 58.0             | 58.0    |
|                                                                    | 42”        |            |            | 54.0             | 54.0    |
|                                                                    | 48”        |            |            | 51.0             | 51.0    |
|                                                                    | 54”        |            |            | 49.0             | 49.0    |
|                                                                    | 60”        |            |            | 46.0             | 46.0    |
| 84”                                                                | 30”        |            |            | 55.0             | 55.0    |
|                                                                    | 36”        |            |            | 52.0             | 52.0    |
|                                                                    | 42”        |            |            | 49.0             | 49.0    |
|                                                                    | 48”        |            |            | 47.0             | 47.0    |
| 96”                                                                | 30”        |            |            | 50.0             | 50.0    |
|                                                                    | 36”        |            |            | 48.0             | 48.0    |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 102”       | 144”       | 60.0             | 60.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 47.0             | 47.0    |
| 84”                                                                | 30”        |            |            | 54.0             | 54.0    |
|                                                                    | 36”        |            |            | 51.0             | 51.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
| 96”                                                                | 30”        |            |            | 49.0             | 49.0    |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 108”       | 132”       | 60.0             | 62.0    |
|                                                                    | 36”        |            |            | 59.0             | 59.0    |
|                                                                    | 42”        |            |            | 55.0             | 55.0    |
|                                                                    | 48”        |            |            | 52.0             | 52.0    |
|                                                                    | 54”        |            |            | 50.0             | 50.0    |
|                                                                    | 60”        |            |            | 47.0             | 47.0    |
| 84”                                                                | 30”        |            |            | 56.0             | 56.0    |
|                                                                    | 36”        |            |            | 53.0             | 53.0    |
|                                                                    | 42”        |            |            | 50.0             | 50.0    |
|                                                                    | 48”        |            |            | 48.0             | 48.0    |
|                                                                    | 54”        |            |            | 46.0             | 46.0    |
| 96”                                                                | 30”        |            |            | 51.0             | 51.0    |
|                                                                    | 36”        |            |            | 48.0             | 48.0    |
|                                                                    | 42”        |            |            | 46.0             | 46.0    |
| 72”                                                                | 30”        | 108”       | 138”       | 60.0             | 60.0    |
|                                                                    | 36”        |            |            | 57.0             | 57.0    |
|                                                                    | 42”        |            |            | 54.0             | 54.0    |
|                                                                    | 48”        |            |            | 51.0             | 51.0    |
|                                                                    | 54”        |            |            | 48.0             | 48.0    |
|                                                                    | 60”        |            |            | 46.0             | 46.0    |
| 84”                                                                | 30”        |            |            | 54.0             | 54.0    |
|                                                                    | 36”        |            |            | 51.0             | 51.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
|                                                                    | 48”        |            |            | 46.0             | 46.0    |
|                                                                    | 54”        |            |            | 44.0             | 44.0    |
| 96”                                                                | 30”        |            |            | 49.0             | 49.0    |
|                                                                    | 36”        |            |            | 47.0             | 47.0    |
|                                                                    |            |            |            |                  |         |
| 72”                                                                | 30”        | 108”       | 144”       | 59.0             | 59.0    |
|                                                                    | 36”        |            |            | 55.0             | 55.0    |
|                                                                    | 42”        |            |            | 52.0             | 52.0    |
|                                                                    | 48”        |            |            | 49.0             | 49.0    |
|                                                                    | 54”        |            |            | 47.0             | 47.0    |
|                                                                    |            |            |            |                  |         |
| 84”                                                                | 30”        |            |            | 53.0             | 53.0    |
|                                                                    | 36”        |            |            | 50.0             | 50.0    |
|                                                                    | 42”        |            |            | 47.0             | 47.0    |
| 96”                                                                | 30”        |            |            | 48.0             | 48.0    |

| MULLION LOAD CAPACITY – PSF<br>AT DOUBLE DOOR WITH/WITHOUT TRANSOM |            |            |            |                  |         |
|--------------------------------------------------------------------|------------|------------|------------|------------------|---------|
| NOMINAL DIMS.                                                      |            |            |            | WITH REINFORCING |         |
| WIDTH (W1)                                                         | WIDTH (W2) | HEIGHT (A) | HEIGHT (L) | EXT.(+)          | INT.(–) |
| 72”                                                                | 30”        | 114”       | 138”       | 59.0             | 59.0    |
|                                                                    | 36”        |            |            | 56.0             | 56.0    |
|                                                                    | 42”        |            |            | 53.0             | 53.0    |
|                                                                    | 48”        |            |            | 50.0             | 50.0    |
|                                                                    | 54”        |            |            | 47.0             | 47.0    |
|                                                                    | 60”        |            |            | 45.0             | 45.0    |
| 84”                                                                | 30”        |            |            | 53.0             | 53.0    |
|                                                                    | 36”        |            |            | 50.0             | 50.0    |
|                                                                    | 42”        |            |            | 48.0             | 48.0    |
| 96”                                                                | 30”        |            |            | 46.0             | 46.0    |
|                                                                    | 36”        |            |            | 46.0             | 46.0    |
| 72”                                                                | 30”        | 114”       | 144”       | 58.0             | 58.0    |
|                                                                    | 36”        |            |            | 54.0             | 54.0    |
|                                                                    | 42”        |            |            | 51.0             | 51.0    |
|                                                                    | 48”        |            |            | 48.0             | 48.0    |
|                                                                    | 54”        |            |            | 46.0             | 46.0    |
|                                                                    |            |            |            |                  |         |
| 84”                                                                | 30”        |            |            | 52.0             | 52.0    |
|                                                                    | 36”        |            |            | 49.0             | 49.0    |
|                                                                    | 42”        |            |            | 46.0             | 46.0    |
| 96”                                                                | 30”        |            |            | 47.0             | 47.0    |

|     |     |      |      |      |      |
|-----|-----|------|------|------|------|
| 72” | 30” | 120” | 144” | 57.0 | 57.0 |
|     | 36” |      |      | 53.0 | 53.0 |
|     | 42” |      |      | 50.0 | 50.0 |
|     | 48” |      |      | 48.0 | 48.0 |
|     | 54” |      |      | 45.0 | 45.0 |
| 84” | 30” |      |      | 51.0 | 51.0 |
|     | 36” |      |      | 48.0 | 48.0 |
|     | 42” |      |      | 46.0 | 46.0 |
| 96” | 30” |      |      | 46.0 | 46.0 |
|     |     |      |      |      |      |

\*REFER TO SHEET 7 FOR ELEVATION



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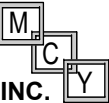
PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**



|      |                              |
|------|------------------------------|
| REV1 | DATE/REMARKS                 |
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

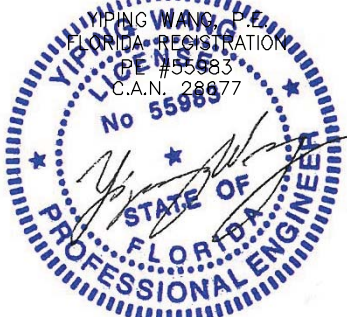
ENGINEER:



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

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

STAMP:



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.

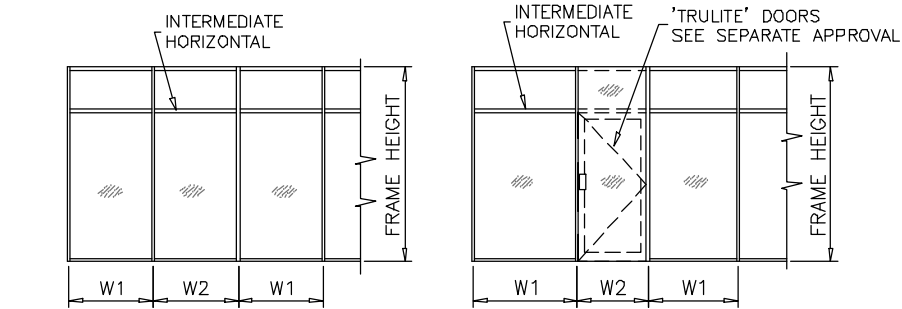
DATE: 08.26.2022

DWG: AD18–17

DRAWING No:

**9 OF 16**

| ANCHOR LOAD CAPACITY – PSF |              |                  |       |       |                  |       |       |                 |       |       |                 |       |                 |       |          |
|----------------------------|--------------|------------------|-------|-------|------------------|-------|-------|-----------------|-------|-------|-----------------|-------|-----------------|-------|----------|
| EXT.(+) & INT.(–)          |              |                  |       |       |                  |       |       |                 |       |       |                 |       |                 |       |          |
| NOMINAL DIMS.              |              | 3/8” SHIM        |       |       | 3/8” SHIM        |       |       | 3/8” SHIM       |       |       | 1/4” SHIM       |       | 3/8” SHIM       |       | 1/4”SHIM |
|                            |              | ANCHOR TYPE 'AA' |       |       | ANCHOR TYPE 'BB' |       |       | ANCHOR TYPE 'A' |       |       | ANCHOR TYPE 'A' |       | ANCHOR TYPE 'B' |       | TYPE 'C' |
| WIDTH (W)                  | FRAME HEIGHT | 'AA2'            | 'AA3' | 'AA4' | 'BB2'            | 'BB3' | 'BB4' | 'A2'            | 'A3'  | 'A4'  | 'A2'            | 'A3'  | 'B2'            | 'B3'  | 'C2'     |
| 36”                        | 78”          | 81.2             | 105.0 | 105.0 | 96.4             | 105.0 | 105.0 | 102.2           | 105.0 | 105.0 | 105.0           | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 69.6             | 104.4 | 105.0 | 82.6             | 105.0 | 105.0 | 87.6            | 105.0 | 105.0 | 105.0           | 105.0 | 105.0           | 105.0 | 105.0    |
| 48”                        |              | 60.9             | 91.4  | 105.0 | 72.3             | 105.0 | 105.0 | 76.6            | 105.0 | 105.0 | 95.1            | 105.0 | 105.0           | 105.0 | 105.0    |
| 54”                        |              | 54.2             | 81.2  | 105.0 | 64.3             | 96.4  | 105.0 | 68.1            | 102.2 | 105.0 | 84.5            | 105.0 | 100.6           | 105.0 | 105.0    |
| 60”                        |              | 48.7             | 73.1  | 97.5  | 57.8             | 86.8  | 105.0 | 61.3            | 91.9  | 105.0 | 76.1            | 105.0 | 90.6            | 105.0 | 105.0    |
| 66”                        |              | 44.3             | 66.5  | 88.6  | 52.6             | 78.9  | 105.0 | 55.7            | 83.6  | 105.0 | 69.1            | 103.7 | 82.3            | 105.0 | 102.5    |
| 72”                        |              | 40.6             | 60.9  | 81.2  | 48.2             | 72.3  | 96.4  | 51.1            | 76.6  | 102.2 | 63.4            | 95.1  | 75.5            | 105.0 | 93.9     |
| 36”                        | 84”          | 75.4             | 105.0 | 105.0 | 89.5             | 105.0 | 105.0 | 94.9            | 105.0 | 105.0 | 105.0           | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 64.7             | 97.0  | 105.0 | 76.7             | 105.0 | 105.0 | 81.3            | 105.0 | 105.0 | 100.9           | 105.0 | 105.0           | 105.0 | 105.0    |
| 48”                        |              | 56.6             | 84.9  | 105.0 | 67.1             | 100.7 | 105.0 | 71.1            | 105.0 | 105.0 | 88.3            | 105.0 | 105.0           | 105.0 | 105.0    |
| 54”                        |              | 50.3             | 75.4  | 100.6 | 59.7             | 89.5  | 105.0 | 63.2            | 94.9  | 105.0 | 78.5            | 105.0 | 93.5            | 105.0 | 105.0    |
| 60”                        |              | 45.3             | 67.9  | 90.5  | 53.7             | 80.6  | 105.0 | 56.9            | 84.4  | 105.0 | 70.6            | 105.0 | 84.1            | 105.0 | 104.7    |
| 66”                        |              | 41.1             | 61.7  | 83.3  | 48.8             | 73.2  | 97.7  | 51.7            | 77.6  | 103.5 | 64.2            | 96.3  | 76.5            | 105.0 | 95.2     |
| 72”                        |              | 37.7             | 56.6  | 75.4  | 44.8             | 67.1  | 89.5  | 47.4            | 71.1  | 94.9  | 58.9            | 88.3  | 70.1            | 105.0 | 87.2     |
| 36”                        | 90”          | 70.4             | 105.0 | 105.0 | 83.6             | 105.0 | 105.0 | 88.5            | 105.0 | 105.0 | 105.0           | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 60.3             | 90.5  | 105.0 | 71.6             | 105.0 | 105.0 | 75.9            | 105.0 | 105.0 | 94.2            | 105.0 | 105.0           | 105.0 | 105.0    |
| 48”                        |              | 52.8             | 79.2  | 105.0 | 62.7             | 94.0  | 105.0 | 66.4            | 99.6  | 105.0 | 82.4            | 105.0 | 98.1            | 105.0 | 105.0    |
| 54”                        |              | 46.9             | 70.4  | 93.9  | 55.7             | 83.6  | 105.0 | 59.0            | 88.5  | 105.0 | 73.2            | 105.0 | 87.2            | 105.0 | 105.0    |
| 60”                        |              | 42.2             | 63.4  | 84.5  | 50.1             | 75.2  | 100.3 | 53.1            | 79.7  | 105.0 | 65.9            | 98.9  | 78.5            | 105.0 | 97.7     |
| 66”                        |              | 38.4             | 57.6  | 76.8  | 45.6             | 68.4  | 91.2  | 48.3            | 72.4  | 96.6  | 59.9            | 89.9  | 71.4            | 105.0 | 88.8     |
| 72”                        |              | 35.2             | 52.8  | 70.4  | 41.8             | 62.7  | 83.6  | 44.3            | 66.4  | 88.5  | 54.9            | 82.4  | 65.4            | 98.1  | 81.4     |
| 36”                        | 96”          | 60.0             | 99.0  | 105.0 | 78.3             | 105.0 | 105.0 | 83.0            | 105.0 | 105.0 | 103.0           | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 56.6             | 84.9  | 105.0 | 67.1             | 100.7 | 105.0 | 71.1            | 105.0 | 105.0 | 88.3            | 105.0 | 105.0           | 105.0 | 105.0    |
| 48”                        |              | 49.5             | 74.3  | 99.0  | 58.8             | 88.1  | 105.0 | 62.3            | 93.4  | 105.0 | 77.3            | 105.0 | 92.0            | 105.0 | 105.0    |
| 54”                        |              | 44.0             | 66.0  | 88.0  | 52.2             | 78.3  | 104.4 | 55.3            | 83.0  | 105.0 | 68.7            | 103.0 | 81.8            | 105.0 | 101.8    |
| 60”                        |              | 39.6             | 59.4  | 79.2  | 47.0             | 70.5  | 94.0  | 49.8            | 74.7  | 99.6  | 61.8            | 92.7  | 73.6            | 105.0 | 91.6     |
| 66”                        |              | 36.0             | 54.0  | 72.0  | 42.7             | 64.1  | 85.1  | 45.3            | 67.9  | 90.5  | 56.2            | 84.3  | 66.9            | 100.4 | 83.3     |
| 72”                        |              | 33.0             | 49.5  | 66.0  | 39.2             | 58.8  | 78.3  | 41.5            | 62.3  | 83.0  | 51.5            | 77.3  | 61.3            | 92.0  | 76.3     |
| 36”                        | 102”         | 62.1             | 93.2  | 105.0 | 73.7             | 105.0 | 105.0 | 78.1            | 105.0 | 105.0 | 96.9            | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 53.2             | 79.9  | 105.0 | 63.2             | 94.8  | 105.0 | 67.0            | 100.4 | 105.0 | 83.1            | 105.0 | 99.0            | 105.0 | 105.0    |
| 48”                        |              | 46.6             | 69.9  | 93.2  | 55.3             | 82.9  | 105.0 | 58.9            | 87.9  | 105.0 | 72.7            | 105.0 | 86.6            | 105.0 | 105.0    |
| 54”                        |              | 41.4             | 62.1  | 82.8  | 49.2             | 73.7  | 98.3  | 52.1            | 78.1  | 104.2 | 64.6            | 96.9  | 77.0            | 105.0 | 95.8     |
| 60”                        |              | 37.3             | 55.9  | 74.5  | 44.2             | 66.4  | 88.5  | 46.9            | 70.3  | 93.7  | 58.2            | 87.2  | 69.3            | 103.9 | 86.2     |
| 66”                        |              | 33.9             | 50.8  | 67.8  | 40.2             | 60.3  | 80.4  | 42.6            | 63.9  | 85.2  | 52.9            | 79.3  | 63.0            | 94.5  | 78.4     |
| 36”                        | 108”         | 58.7             | 88.0  | 105.0 | 69.6             | 104.4 | 105.0 | 73.8            | 105.0 | 105.0 | 91.6            | 105.0 | 105.0           | 105.0 | 105.0    |
| 42”                        |              | 50.3             | 75.4  | 100.6 | 59.7             | 89.5  | 105.0 | 63.2            | 94.9  | 105.0 | 78.5            | 105.0 | 93.5            | 105.0 | 105.0    |
| 48”                        |              | 44.0             | 66.0  | 88.0  | 52.2             | 78.3  | 104.4 | 55.3            | 83.0  | 105.0 | 68.7            | 103.0 | 81.8            | 105.0 | 101.8    |
| 54”                        |              | 39.1             | 58.7  | 78.2  | 46.4             | 69.6  | 92.8  | 49.2            | 73.8  | 98.4  | 61.0            | 91.6  | 72.7            | 105.0 | 90.5     |
| 60”                        |              | 35.2             | 52.8  | 70.4  | 41.8             | 62.7  | 83.6  | 44.3            | 66.4  | 88.5  | 54.9            | 82.4  | 65.4            | 98.1  | 81.4     |
| 36”                        | 114”         | 55.6             | 83.4  | 105.0 | 66.0             | 98.9  | 105.0 | 69.9            | 104.8 | 105.0 | 86.7            | 105.0 | 103.3           | 105.0 | 105.0    |
| 42”                        |              | 47.6             | 71.5  | 95.3  | 56.5             | 84.8  | 105.0 | 59.9            | 89.9  | 105.0 | 74.3            | 105.0 | 88.5            | 105.0 | 105.0    |
| 48”                        |              | 41.7             | 62.5  | 83.4  | 49.5             | 74.2  | 98.9  | 52.4            | 78.6  | 104.8 | 65.1            | 97.6  | 77.5            | 105.0 | 96.4     |
| 54”                        |              | 37.4             | 55.6  | 74.1  | 44.0             | 66.0  | 88.0  | 46.6            | 69.9  | 93.2  | 57.8            | 86.7  | 68.9            | 103.3 | 85.7     |
| 60”                        |              | 33.3             | 50.0  | 66.7  | 39.6             | 59.4  | 79.2  | 41.9            | 62.9  | 83.9  | 52.0            | 78.1  | 62.0            | 93.0  | 77.1     |
| 36”                        | 120”         | 52.8             | 79.2  | 105.0 | 62.7             | 94.0  | 105.0 | 66.4            | 99.6  | 105.0 | 82.4            | 105.0 | 98.1            | 105.0 | 105.0    |
| 42”                        |              | 45.3             | 67.9  | 90.5  | 53.7             | 80.6  | 105.0 | 56.9            | 85.4  | 105.0 | 70.6            | 105.0 | 84.1            | 105.0 | 104.7    |
| 48”                        |              | 39.6             | 59.4  | 79.2  | 47.0             | 70.5  | 94.0  | 49.8            | 74.7  | 99.6  | 61.8            | 92.7  | 73.6            | 105.0 | 91.6     |
| 54”                        |              | 35.2             | 52.8  | 70.4  | 41.8             | 62.7  | 83.6  | 44.3            | 66.4  | 88.5  | 54.9            | 82.4  | 65.4            | 98.1  | 81.4     |

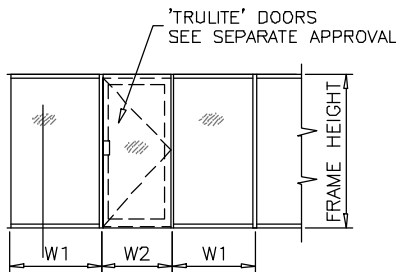


WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) = W1  
AT FRAME JAMB

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

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



WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) = W1  
AT FRAME JAMB

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

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AT FRAME MULLION

**ANCHORS TYPES:** SEE SHEET 12 FOR DESCRIPTION

**AA2** = (2) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION OR JAMB

**A2** = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB

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

**BB2** = (2) ANCHORS TYPE 'BB' AT EACH SIDE OF MULLION OR JAMB

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

**AA3** = (3) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION OR JAMB

**A3** = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB

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

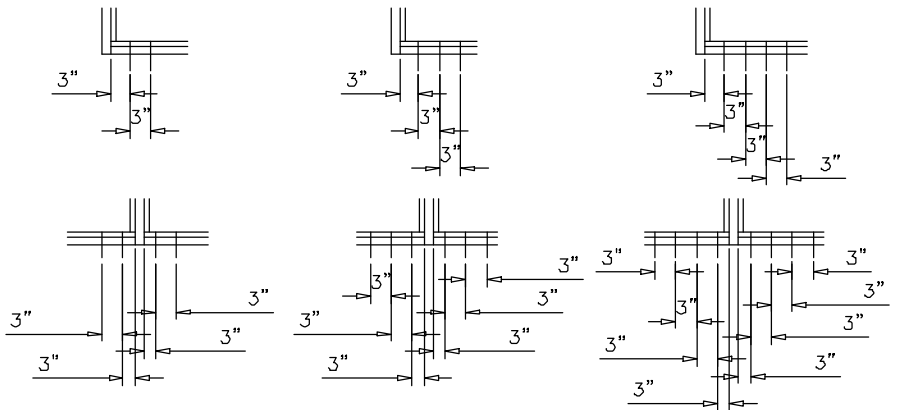
**BB3** = (3) ANCHORS TYPE 'BB' AT EACH SIDE OF MULLION OR JAMB

**AA4** = (4) ANCHORS TYPE 'AA' AT EACH SIDE OF MULLION OR JAMB

**A4** = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB

**BB4** = (4) ANCHORS TYPE 'BB' AT EACH SIDE OF MULLION OR JAMB

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



**A2, B2, BB2, C2**

**A3, B3, BB3, C3**

**A4, AA4, BB4**

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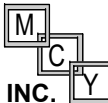
PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**

**Resistor**  
PRODUCT SERIES

| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:



**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT

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

STAMP:



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.

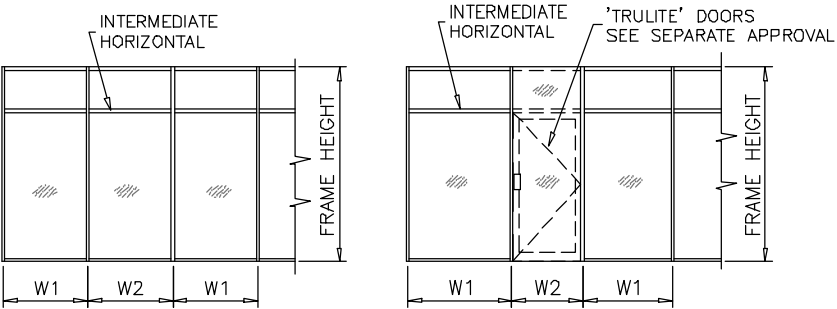
DRAWING No:

DATE: 08.26.2022

**10 OF 16**

DWG: AD18-17

| ANCHOR LOAD CAPACITY – PSF<br>EXT.(+) & INT.(–) |              |                  |       |       |                  |       |       |                 |      |       |                 |       |                 |       |          |
|-------------------------------------------------|--------------|------------------|-------|-------|------------------|-------|-------|-----------------|------|-------|-----------------|-------|-----------------|-------|----------|
| NOMINAL DIMS.                                   |              | 3/8” SHIM        |       |       | 3/8” SHIM        |       |       | 3/8” SHIM       |      |       | 1/4” SHIM       |       | 3/8” SHIM       |       | 1/4”SHIM |
|                                                 |              | ANCHOR TYPE 'AA' |       |       | ANCHOR TYPE 'BB' |       |       | ANCHOR TYPE 'A' |      |       | ANCHOR TYPE 'A' |       | ANCHOR TYPE 'B' |       | TYPE 'C' |
| WIDTH (W)                                       | FRAME HEIGHT | 'AA2'            | 'AA3' | 'AA4' | 'BB2'            | 'BB3' | 'BB4' | 'A2'            | 'A3' | 'A4'  | 'A2'            | 'A3'  | 'B2'            | 'B3'  | 'C2'     |
| 36”                                             | 126”         | 50.3             | 75.4  | 100.6 | 59.7             | 89.5  | 105.0 | 63.2            | 94.9 | 105.0 | 78.5            | 105.0 | 93.5            | 105.0 | 105.0    |
| 42”                                             |              | 43.1             | 64.7  | 86.2  | 51.2             | 76.7  | 102.3 | 54.2            | 81.3 | 105.0 | 67.3            | 100.9 | 80.1            | 105.0 | 99.7     |
| 48”                                             |              | 37.7             | 56.6  | 75.4  | 44.8             | 67.1  | 89.5  | 47.4            | 71.1 | 94.9  | 58.9            | 88.3  | 70.1            | 105.0 | 87.2     |
| 54”                                             |              | 33.5             | 50.3  | 67.0  | 39.8             | 59.7  | 79.6  | 42.2            | 63.2 | 84.3  | 52.3            | 78.5  | 62.3            | 93.5  | 77.5     |
| 36”                                             | 132”         | 48.0             | 72.0  | 96.0  | 57.0             | 85.5  | 105.0 | 60.4            | 90.5 | 105.0 | 74.9            | 105.0 | 89.2            | 105.0 | 105.0    |
| 42”                                             |              | 41.1             | 61.7  | 82.3  | 48.8             | 73.2  | 97.7  | 51.7            | 77.6 | 103.5 | 64.2            | 96.3  | 76.5            | 105.0 | 95.2     |
| 48”                                             |              | 36.0             | 54.0  | 72.0  | 42.7             | 64.1  | 85.5  | 45.3            | 67.9 | 90.5  | 56.21           | 84.3  | 66.9            | 100.4 | 83.3     |
| 36”                                             | 138”         | 45.9             | 68.9  | 91.8  | 54.5             | 81.7  | 105.0 | 57.7            | 86.6 | 105.0 | 71.7            | 105.0 | 85.3            | 105.0 | 105.0    |
| 42”                                             |              | 39.4             | 59.0  | 78.7  | 46.7             | 70.1  | 93.4  | 49.5            | 74.2 | 99.0  | 61.9            | 92.1  | 73.1            | 105.0 | 91.0     |
| 48”                                             |              | 34.4             | 51.7  | 68.9  | 40.9             | 61.3  | 81.7  | 43.3            | 65.0 | 86.6  | 53.7            | 80.6  | 64.0            | 96.0  | 79.7     |
| 36”                                             | 144”         | 44.0             | 66.0  | 88.0  | 52.2             | 78.3  | 104.4 | 55.3            | 83.0 | 105.0 | 68.7            | 103.0 | 81.8            | 105.0 | 101.8    |
| 42”                                             |              | 37.7             | 56.6  | 75.4  | 44.8             | 67.1  | 89.5  | 47.4            | 71.1 | 94.9  | 58.9            | 88.3  | 70.1            | 105.0 | 87.2     |
| 48”                                             |              | 33.0             | 49.5  | 66.0  | 39.2             | 58.8  | 78.3  | 41.5            | 62.3 | 83.0  | 51.5            | 77.3  | 61.3            | 92.0  | 76.3     |

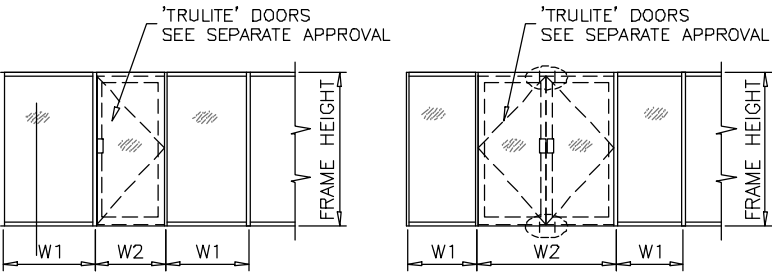


WIDTH (W) = W1  
AT FRAME JAMB

WIDTH (W) = W1  
AT FRAME JAMB

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

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



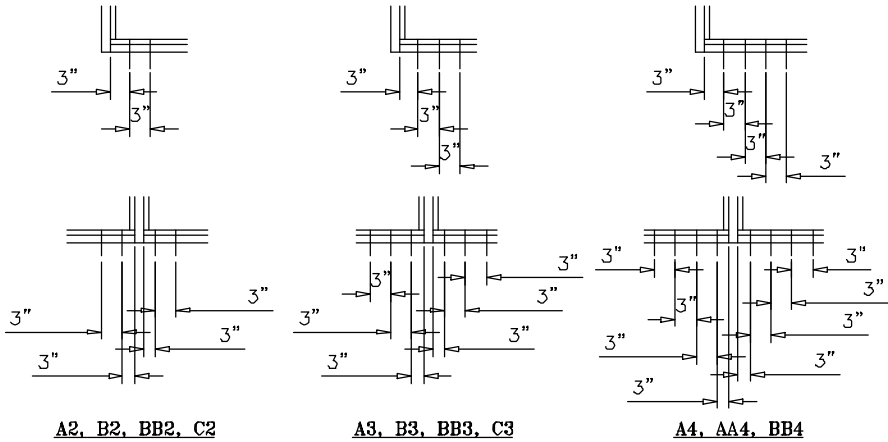
WIDTH (W) = W1  
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WIDTH (W) = W1  
AT FRAME JAMB

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

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

**ANCHORS TYPES:** SEE SHEET 12 FOR DESCRIPTION  
**AA2** = (2) ANCHORS TYPE ‘AA’ AT EACH SIDE OF MULLION OR JAMB  
**A2** = (2) ANCHORS TYPE ‘A’ AT EACH SIDE OF MULLION OR JAMB  
**B2** = (2) ANCHORS TYPE ‘B’ AT EACH SIDE OF MULLION OR JAMB  
**BB2** = (2) ANCHORS TYPE ‘BB’ AT EACH SIDE OF MULLION OR JAMB  
**C2** = (2) ANCHORS TYPE ‘C’ AT EACH SIDE OF MULLION OR JAMB  
**AA3** = (3) ANCHORS TYPE ‘AA’ AT EACH SIDE OF MULLION OR JAMB  
**A3** = (3) ANCHORS TYPE ‘A’ AT EACH SIDE OF MULLION OR JAMB  
**B3** = (3) ANCHORS TYPE ‘B’ AT EACH SIDE OF MULLION OR JAMB  
**BB3** = (3) ANCHORS TYPE ‘BB’ AT EACH SIDE OF MULLION OR JAMB  
**AA4** = (4) ANCHORS TYPE ‘AA’ AT EACH SIDE OF MULLION OR JAMB  
**A4** = (4) ANCHORS TYPE ‘A’ AT EACH SIDE OF MULLION OR JAMB  
**BB4** = (4) ANCHORS TYPE ‘BB’ AT EACH SIDE OF MULLION OR JAMB  
ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



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PRODUCT:  
**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**



| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

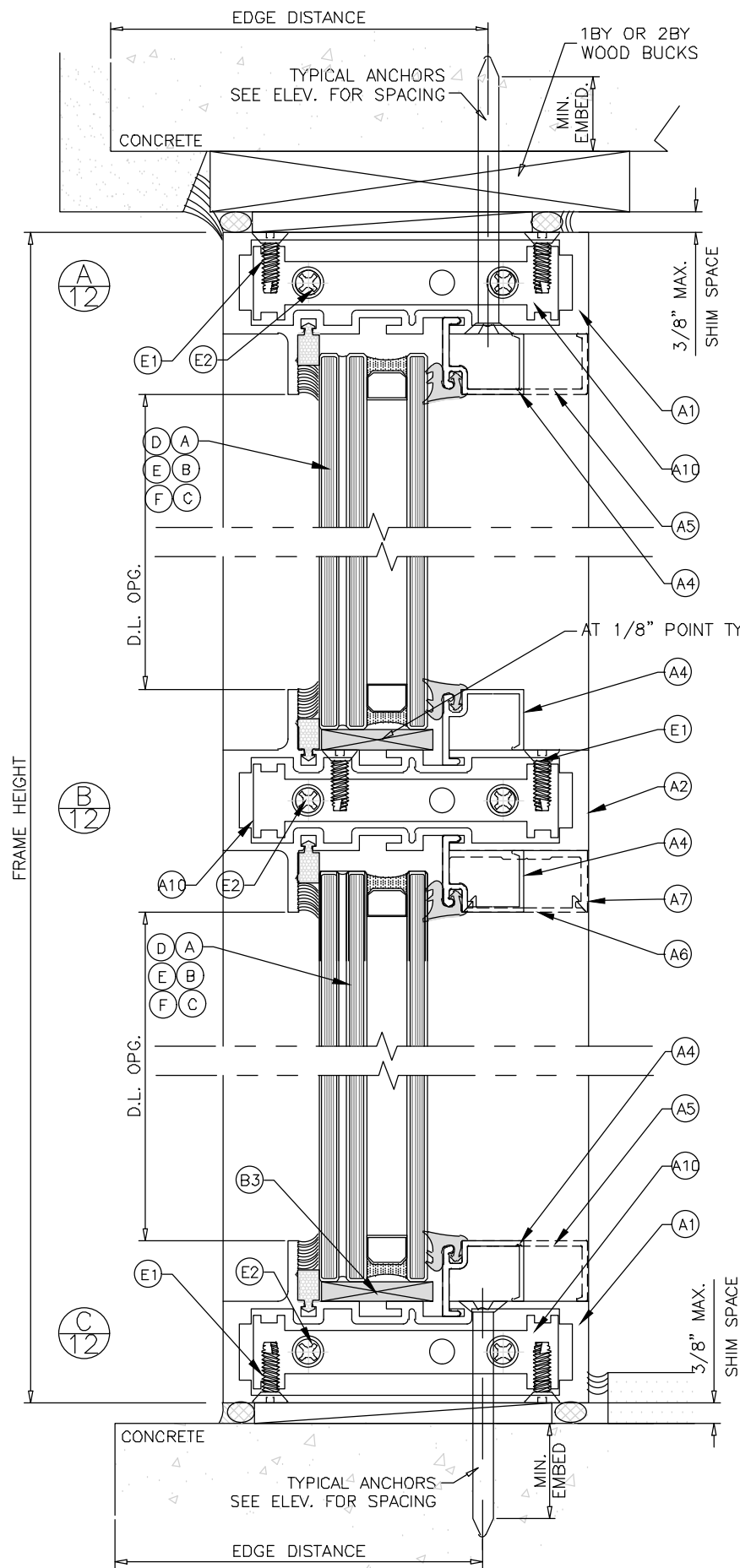
ENGINEER:  
**MCY ENGINEERING, INC.**  
GLAZING CONSULTANT  
12781 MIRAMAR PKWY. STE. 301  
MIRAMAR, FL 33027  
P: (305) 271-0117  
Email: mcy@mcyengineering.com  
www.MCYEngineering.com

STAMP:  
YINPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55583  
C.A.N. 28677  
No 55583  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
September. 6th, 2022

PRODUCT CONTROL APPROVAL:  
**FL #26965**

DRAWN: YIN/I.M. DRAWING No:  
DATE: 08.26.2022  
DWG: AD18-17  
**11 OF 16**

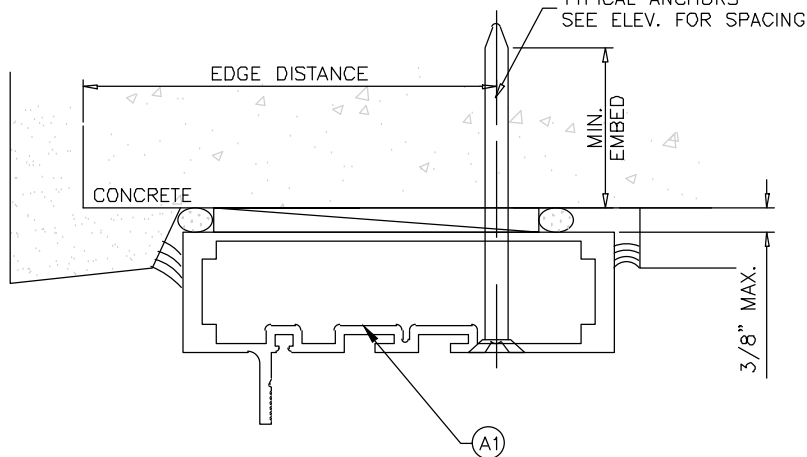
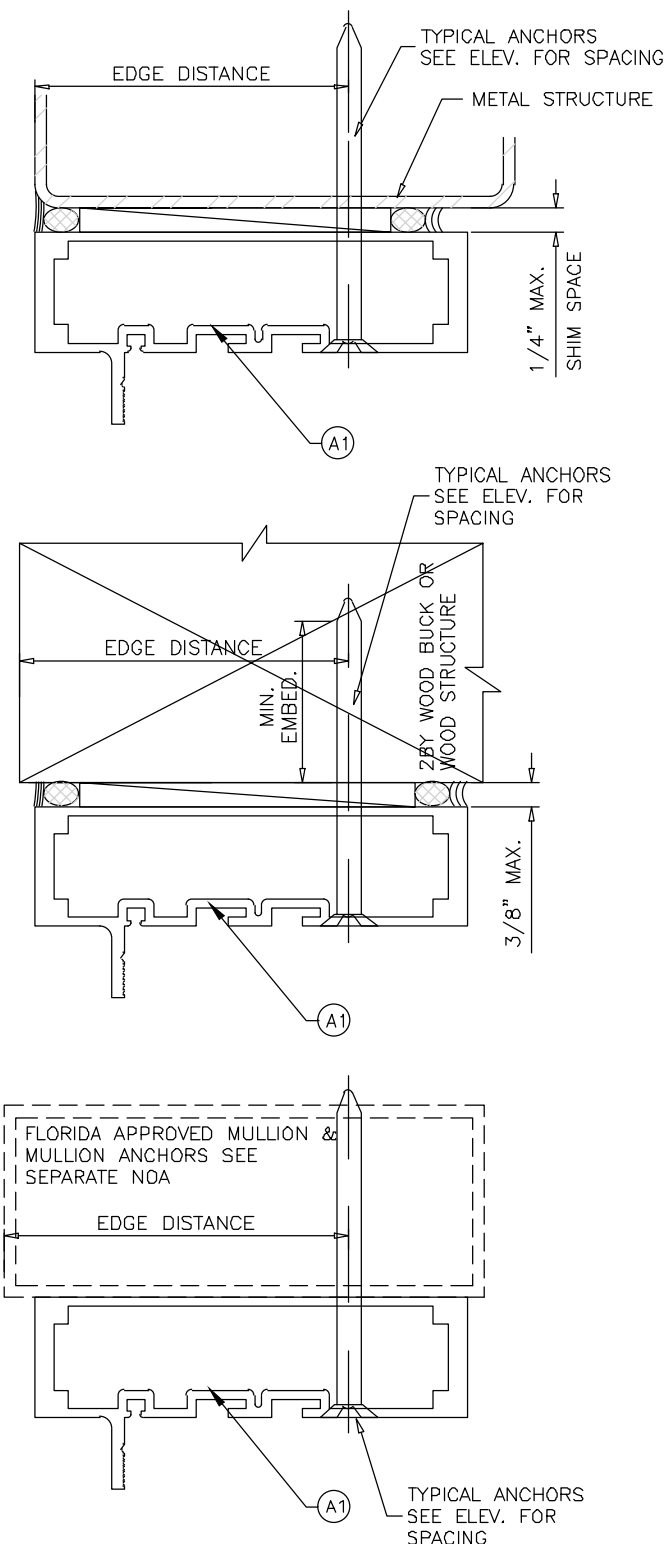
EXTERIOR OR INTERIOR



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.



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 'AA' 1/4" DIA. TAPCON BY 'ITW' ( $F_u=120$  KSI,  $F_y=92$  KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD  
THRU WOOD BUCKS INTO CONC. OR MASONRY\*  
1-3/4" MIN. EMBED INTO MASONRY\*  
1-3/4" MIN. EMBED INTO CONC.

TYPE 'A' 1/4" TAPCON BY 'ITW' ( $F_u=120$  KSI,  $F_y=92$  KSI)  
DIRECTLY INTO CONCRETE OR MASONRY\*  
1-3/4" MIN. EMBED INTO CONCRETE OR MASONRY\*

TYPE 'BB' 1/4" DIA. ULTRACON+ BY 'DEWALT' ( $F_u=164$  KSI,  $F_y=148$  KSI)  
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
1-1/2" MIN. PENETRATION INTO WOOD  
THRU WOOD BUCKS INTO CONC. OR MASONRY\*  
1-3/4" MIN. EMBED INTO MASONRY\*  
1-3/4" MIN. EMBED INTO CONC.

TYPE 'B' 1/4" DIA. ULTRACON+ BY 'DEWALT' ( $F_u=164$  KSI,  $F_y=148$  KSI)  
DIRECTLY INTO CONCRETE OR MASONRY\*  
1-3/4" MIN. EMBED INTO CONCRETE OR MASONRY\*

TYPE 'C' #14 SMS (GRADE 2) ( $F_u=74$  KSI,  $F_y=57$  KSI)  
OR SELF DRILLING SCREWS (GRADE 5) ( $F_u=120$  KSI,  $F_y=92$  KSI)  
INTO MIAMI-DADE COUNTY APPROVED MULLIONS  
(1/8" THK. MIN.) INTO METAL STRUCTURE.

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

SEALANTS:

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH SILICONE  
GLAZING OPTIONS S1 TO S5  
FRAME CORNERS SEALED WITH DOWSIL 999 OR EQUAL COMPATIBLE.

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

NOTE: MASONRY USED AT JAMB SUBSTRATE ONLY

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PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
STOREFRONT WALL-LMI

**Resistor**  
PRODUCT SERIES

| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
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ENGINEER:

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GLAZING CONSULTANT

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Email: [mcy@mcysengineering.com](mailto:mcy@mcysengineering.com)  
[www.MCYEngineering.com](http://www.MCYEngineering.com)

STAMP:



September. 6th. 2022

PRODUCT CONTROL APPROVAL:

**FL #26965**

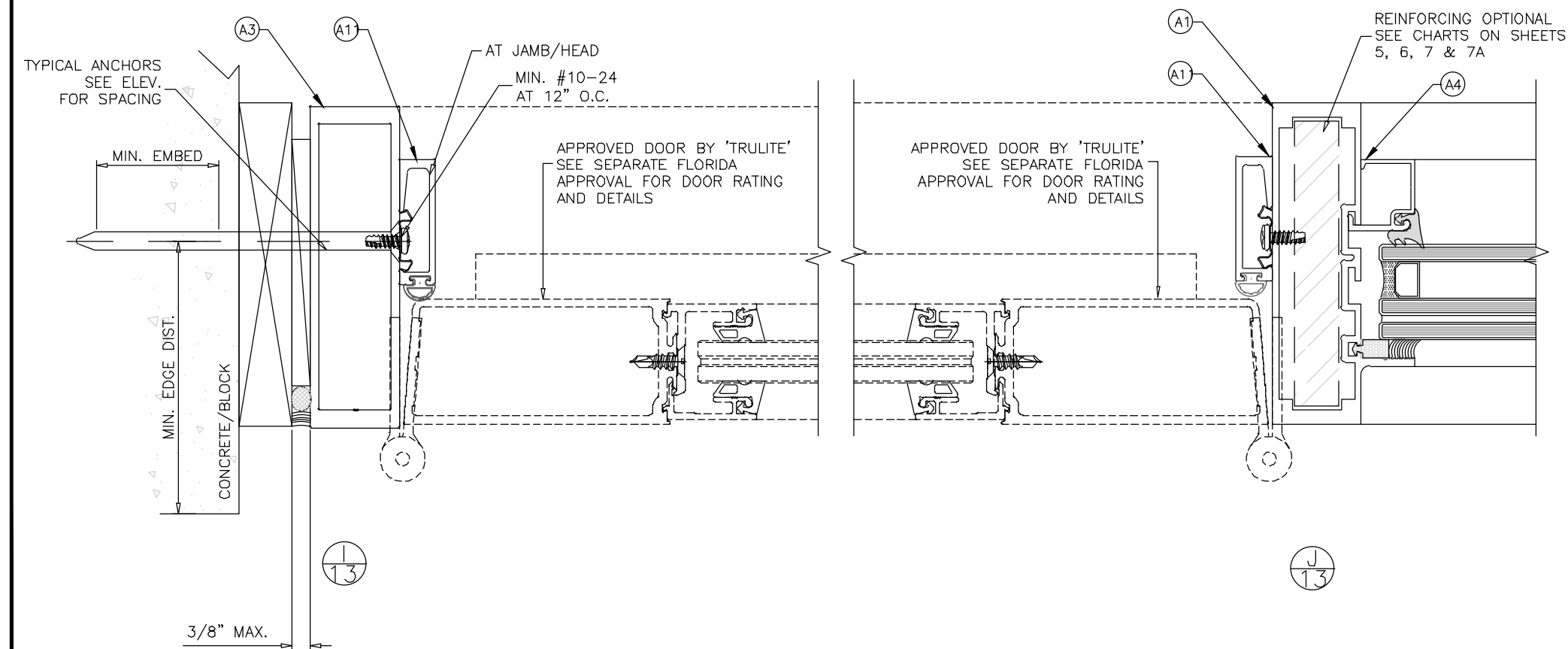
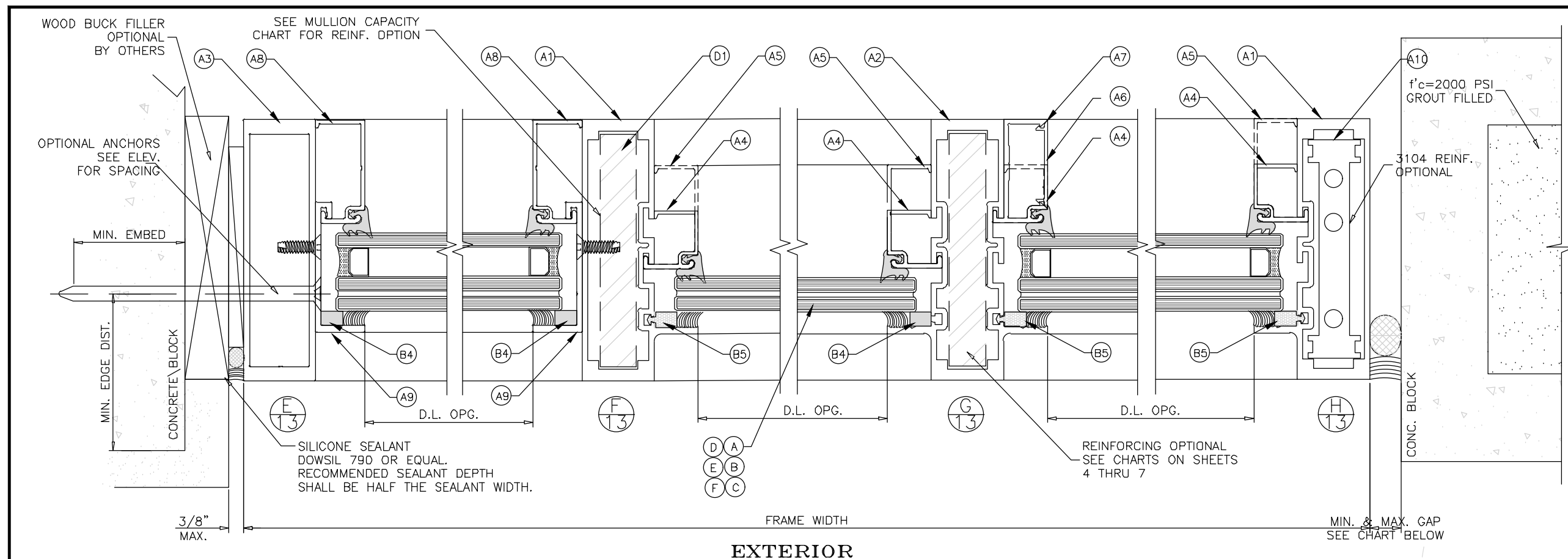
DRAWN: YIN/I.M.

DATE: 08.26.2022

DWG: AD18-17

DRAWING No:

**12 OF 16**



| MAX. FRAME HEIGHT | GAP  |        |
|-------------------|------|--------|
|                   | MIN. | MAX.   |
| 96"               | 1/2" | 1      |
| 108"              | 5/8" | 1 1/2" |
| 120"              | 1/2" | 1-1/8" |
| 144"              | 3/4" | 1-1/8" |

| 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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PRODUCT:  
**Resistor**  
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**Resistor**  
PRODUCT SERIES

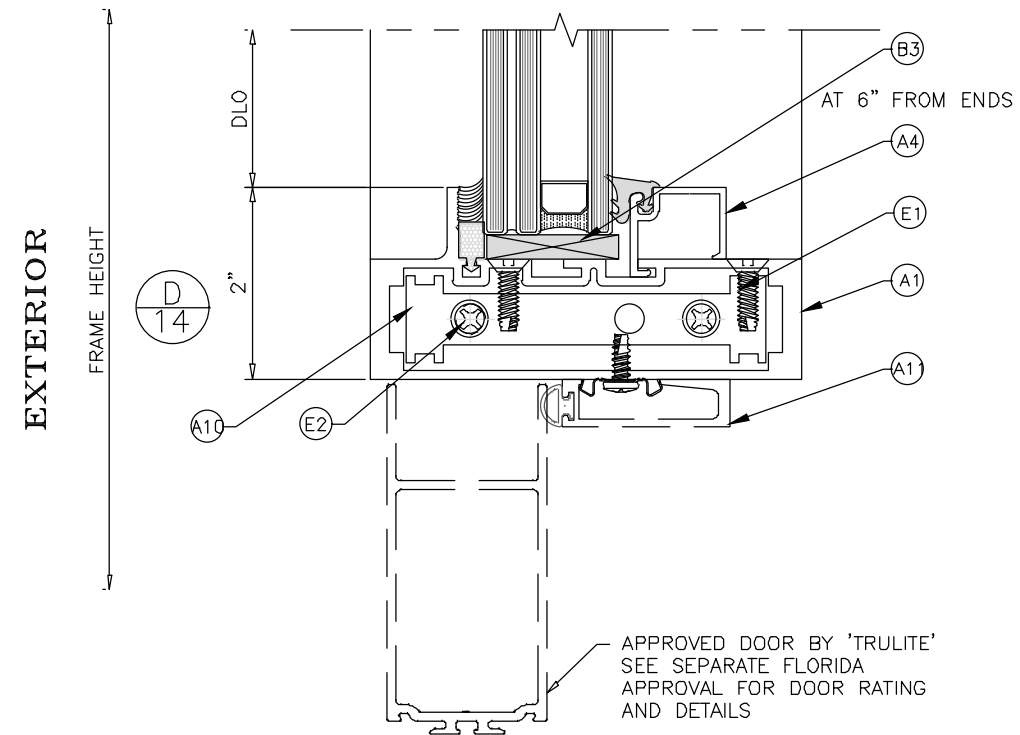
| REV# | DATE/REMARKS                 |
|------|------------------------------|
| REV2 | 09.28.2021 UPDATE INTERLAYER |
| REV3 | 12.15.2021 UPDATE INTERLAYER |
| REV4 | 08.26.2022 NEW GLASS SPACER  |

ENGINEER:  
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P: (305) 271-0117  
Email: mcy@mcysengineering.com  
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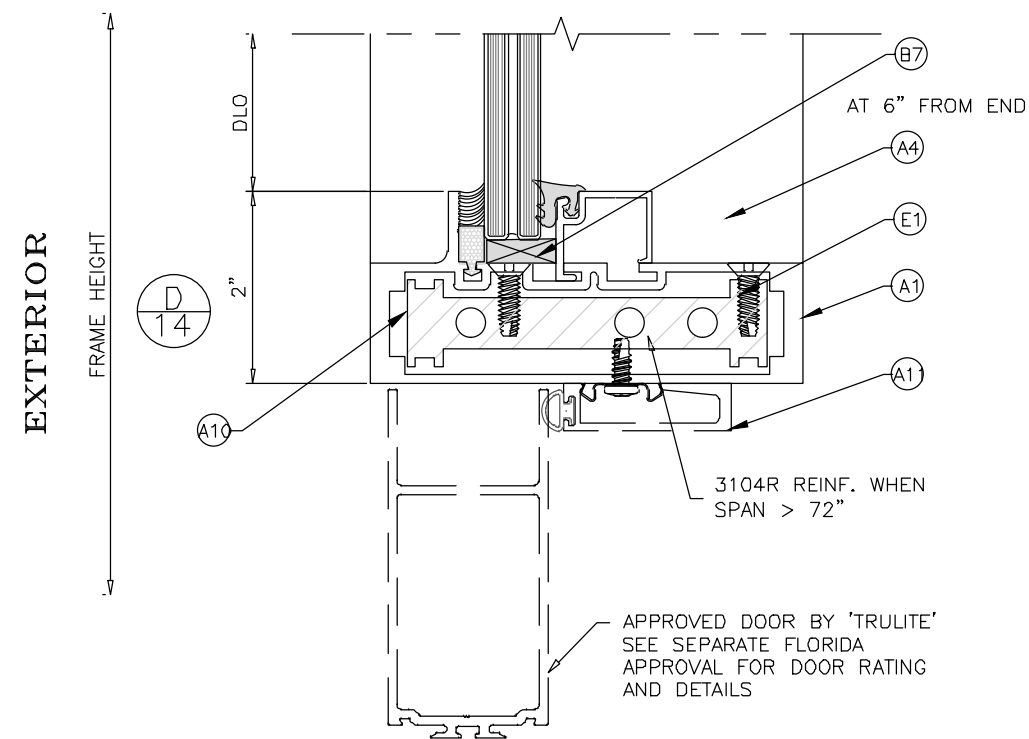
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September. 6th. 2022  
PRODUCT CONTROL APPROVAL:  
**FL #26965**

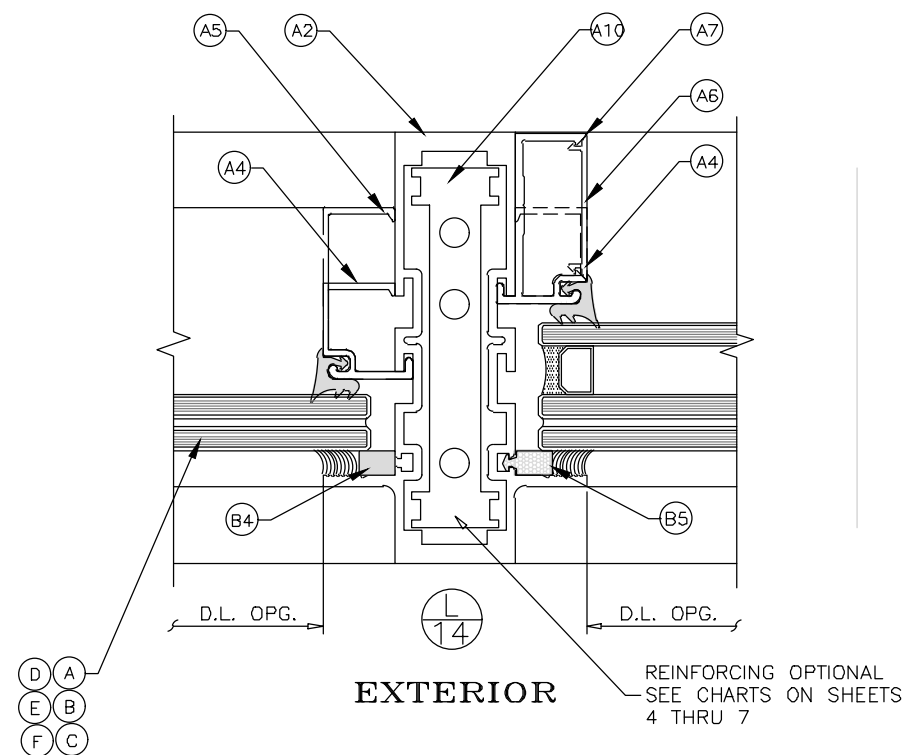
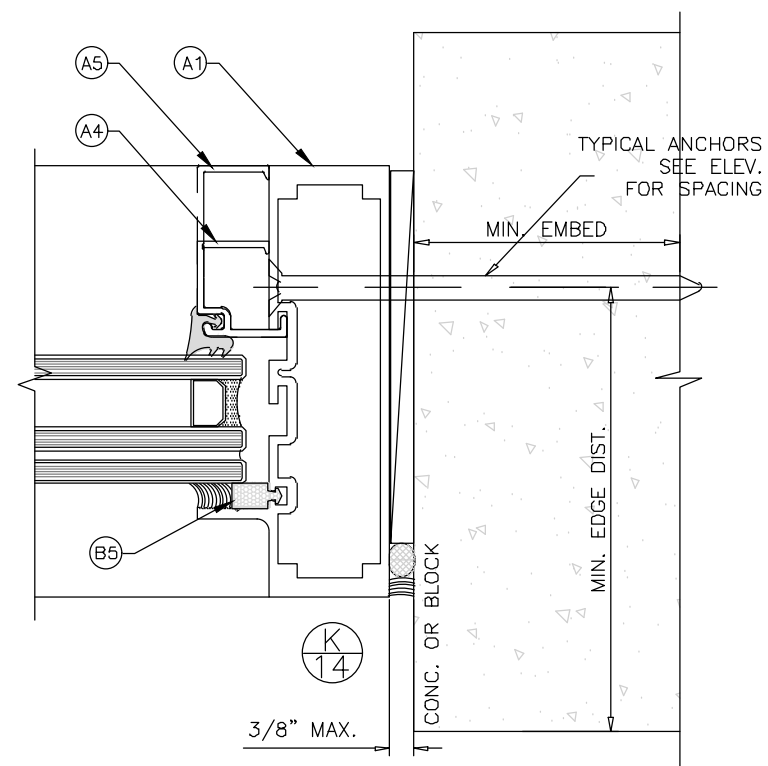
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|------------------|-----------------|
| DRAWN: YIN/I.M.  | DRAWING No:     |
| DATE: 08.26.2022 | <b>13 OF 16</b> |
| DWG: AD18-17     |                 |



WITH INSULATED LAMINATED GLASS OPTION SHOWN



WITH LAMINATED GLASS OPTION SHOWN



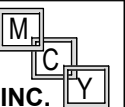
PRODUCT:

**Resistor**  
**3000R ALUMINUM**  
**STOREFRONT WALL-LMI**

**Resistor**  
PRODUCT SERIES

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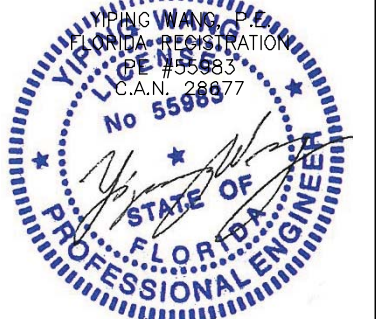
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PRODUCT CONTROL APPROVAL:

**FL #26965**

DRAWN: YIN/I.M.

DATE: 08.26.2022

DWG: AD18-17

DRAWING No:

**14 OF 16**

|                                         |                                          |                                    |                                   |                                 |
|-----------------------------------------|------------------------------------------|------------------------------------|-----------------------------------|---------------------------------|
|                                         |                                          |                                    |                                   |                                 |
| A1.) 3001R HEAD /SILL /JAMB             | A2.) 3002R INT. VERTICAL                 | A3.) 3000 DOOR JAMB                | A4.) 3003 GLASS STOP              | A5.) 3103 GLASS STOP            |
|                                         |                                          |                                    |                                   |                                 |
| A6.) 3303 GLASS STOP (COVER) (OPTIONAL) | A7.) 3304 GLASS STOP (GUTTER) (OPTIONAL) | A13.) 3003 GLASS STOP              | A8.) 3109 GLASS STOP (OPTIONAL)   | A9.) 3108 GLASS STOP            |
|                                         |                                          |                                    |                                   |                                 |
| A10.) 3004C SHEAR BLOCK                 | A11.) 10029 DOOR STOP                    | B1.) RG-1 GLAZ. GASKET             | B2.) RG-5 GLAZ. GASKET            | A14.) 3104R ALUM. REINFORCEMENT |
|                                         |                                          |                                    |                                   |                                 |
| B3.) H62F SETTING BLOCK                 | B4.) V2108 VHB TAPE                      | B5.) RG-18 SPONGE GASKET           | D1.) ST310-5/8" x 4" STEEL REINF. |                                 |
|                                         |                                          |                                    |                                   |                                 |
| B6.) SPACER                             | D2.) 23501 SPRINGCLIP                    | E1.) 23163 #12-24 x 3/4" UC-PFH 23 | E2.) 23233 1/4-20 x 1 1/2" PPH 23 | E3.) 23097 #10-24 x 1/2" PPH 23 |



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PRODUCT:

Resistor

3000R ALUMINUM

STOREFRONT WALL-LMI

Resistor

PRODUCT SERIES

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ENGINEER:

M

C

Y

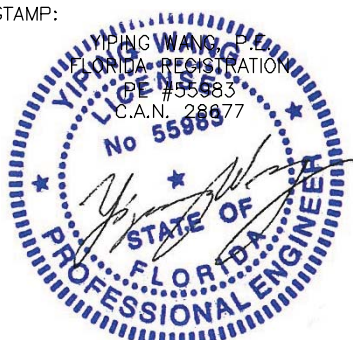
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STAMP:

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #26965

|                  |             |
|------------------|-------------|
| DRAWN: YIN/I.M.  | DRAWING No: |
| DATE: 08.26.2022 | 15 OF 16    |
| DWG: AD18-17     |             |

| BILL OF MATERIAL              |                                             |               |                                |
|-------------------------------|---------------------------------------------|---------------|--------------------------------|
| PART # S                      | DESCRIPTON                                  | MATERIAL      | SUPPLIER/MANUF.                |
| TRULITE                       |                                             |               |                                |
| A.FRAME EXTRUSIONS            |                                             |               |                                |
| A1.) 3001R                    | HEAD/SILL/JAMB (1-1/4"x4-1/2") INSUL. GLASS | 6063-T6       | TRULITE                        |
| A2.) 3002R                    | INTERMEDIATE VERTICAL/HORIZONTAL            | 6063-T6       | TRULITE                        |
| A3.) 3000                     | INTERMEDIATE VERTICAL/HORIZONTAL            | 6063-T6       | TRULITE                        |
| A4.) 3003                     | GLASS STOP                                  | 6063-T6       | TRULITE                        |
| A5.) 3103                     | GLASS STOP                                  | 6063-T6       | TRULITE                        |
| A6.) 3303                     | GLASS STOP (COVER)                          | 6063-T6       | TRULITE                        |
| A7.) 3304                     | GLASS STOP(GUTTER)                          | 6063-T6       | TRULITE                        |
| A8.) 3109                     | GLASS STOP                                  | 6063-T6       | TRULITE                        |
| A9.) 3108                     | GLASS STOP                                  | 6063-T6       | TRULITE                        |
| A10.) 3004C                   | SHEAR BLOCK                                 | 6063-T6       | TRULITE                        |
| A11.)10029                    | DOOR STOP                                   | 6063-T6       | TRULITE                        |
| A13.) 3003                    | GLASS STOP                                  | 6063-T6       | TRULITE                        |
| A14.)3104R                    | ALUMINUM REINFORCEMENT                      | 6063-T6       | TRULITE                        |
|                               |                                             |               |                                |
| B.GASKETS /SETTNG BLOCKS      |                                             |               |                                |
| B1.) RG-1                     | GLAZING GASKET                              | EPDM          | TRULITE                        |
| B5.) RG-5                     | DOOR GASKET                                 | EPDM          | TRULITE                        |
| B3.)H62F                      | SETTING BLOCK FOR 1-5/16" GLASS             | EPDM          | TRULITE                        |
| B4.)V2108/ VK1826             | GLAZING TAPE                                | FOAM          | SAINT GOBAIN/ CAPITAL TAPE     |
| B5.)RG-18                     | 0.236 x 0.375 SPONGE GASKET                 | FOAM          | TRULITE                        |
| B6.)-                         | ALUMINUM SPACER                             | ALUMINUM      | Helima Helvetion Int. / varies |
| B7.)-H62D                     | SETTING BLOCK FOR 9/16" GLASS               | EPDM          | TRULITE                        |
| B8.)-                         | KODISPACE 4SG WARM EDGE SPACER              | THERMOPLASTIC | HB FULLER/KOMMERLING           |
| C.STRUCTURAL SILICON SEALANTS |                                             |               |                                |
| s1.) DOWSIL 795               | STRUCTURAL SEALANT                          |               | DOW                            |
| s2.) DOWSIL 995               | STRUCTURAL SEALANT                          |               | DOW                            |
| s3.) PROGLAZE SSG             | STRUCTURAL SEALANT                          |               | TREMCO                         |
| s4.) SPECTREM 2               | STRUCTURAL SEALANT                          |               | TREMCO                         |
| s5.) SCS 2000                 | STRUCTURAL SEALANT                          |               | GE                             |
| s6.) DOWSIL 983               | STRUCTURAL SEALANT                          |               | DOW                            |
|                               |                                             |               |                                |
| D.MISCELLANEOUS ITEMS         |                                             |               |                                |
| D1.) ST310                    | 58"x4" A36 STEEL REINFORCEMENT              |               | VARIES                         |
| D2.) 23501                    | SPRING CLIP                                 |               | EVANS                          |
|                               |                                             |               |                                |
| E.FASTENERS /ANCHORS          |                                             |               |                                |
| E1.) 23163                    | SHEAR CLIP SCREW #12-24 x 3/4" PFH-23       |               | ALLOY FASTENER                 |
| E2.) 23233                    | HORIZS. FRAME SCREWS 1/4-20 x 1-1/2" PPH-23 |               | ALLOY FASTENER                 |
| E3.) 23097                    | DOOR STOP SCREWS #10-24x 2" PPH-23          |               | ALLOY FASTENER                 |



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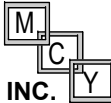
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**16 OF 16**

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