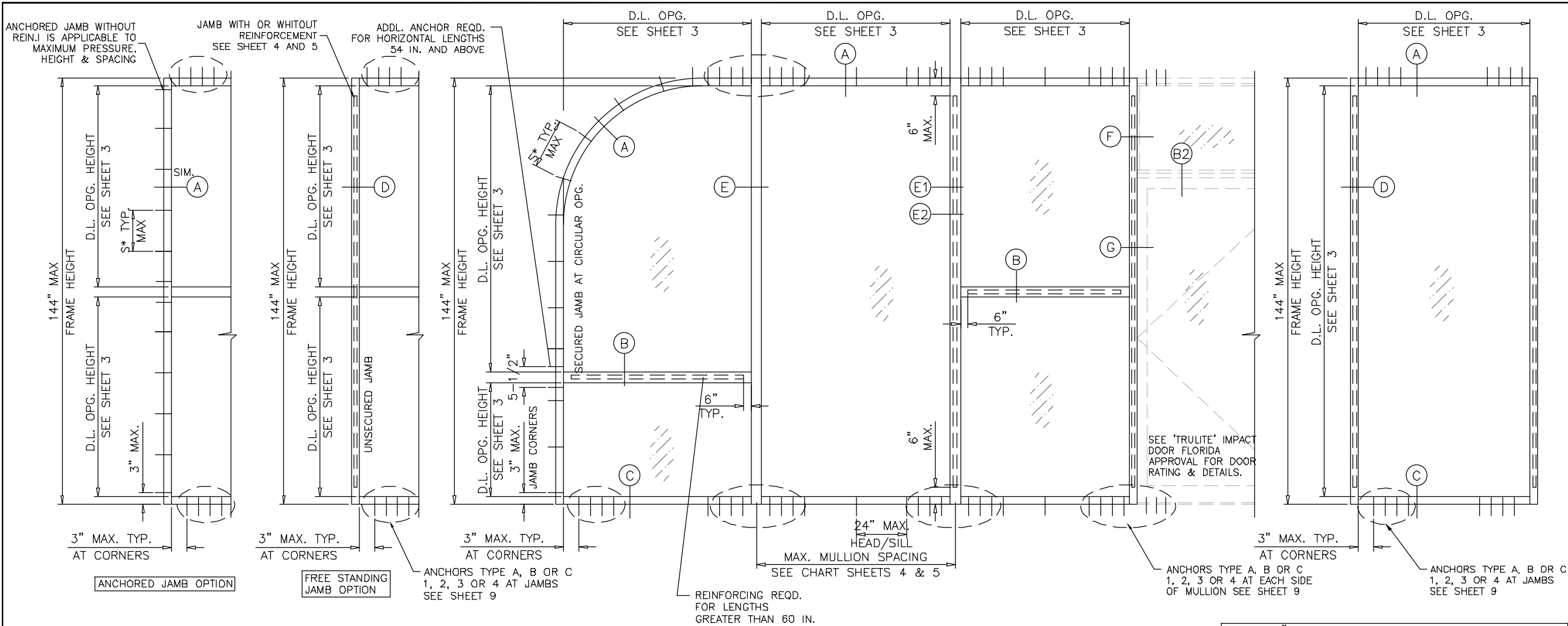




TYPICAL ELEVATIONS

SERIES 3100/L-3100 ALUMINUM WINDOW WALL SYSTEM

- WINDOW WALL SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FLORIDA APPROVAL / MIAMI-DADE COUNTY APPROVED ENTRANCE DOORS.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020) SECTION AS APPLICABLE.
- ULTIMATE DESIGN 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 THE DOCUMENT ARE ALLOWABLE DESIGN LOADS.

REFER TO CHART ON SHEET 7 THRU SHEET 9 FOR DESIGN LOAD

INSTRUCTIONS:

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 3 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 4 & 5. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4: USING CHART ON SHEETS 9 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 3100 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)

S* = 11" O.C. FOR ALL TYPICAL ANCHORS EXCEPT FOLLOWING CONDITION TO USE 10" O.C.

1-FOR 1/4" ULTRACON INTO GROUT FILLED BLOCK WHEN MULLION SPACE > 64" WITH 1/4" OR 3/8" SHIM.

2-FOR 1/4" TEKS WITH 3/8" SHIM SPACE.

3-FOR 5/16" ULTRACON INTO WOOD OR GROUT FILLED BLOCK WITH 1/4" OR 3/8" SHIM.

THIS PRODUCT HAS BEEN TESTED FOR WATER RESISTANCE INFILTRATION UP TO 50 PSF.

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.



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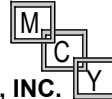
PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.



REV#	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

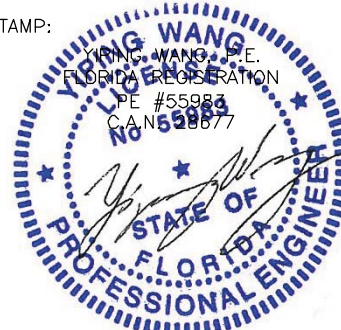
ENGINEER:



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 #25676

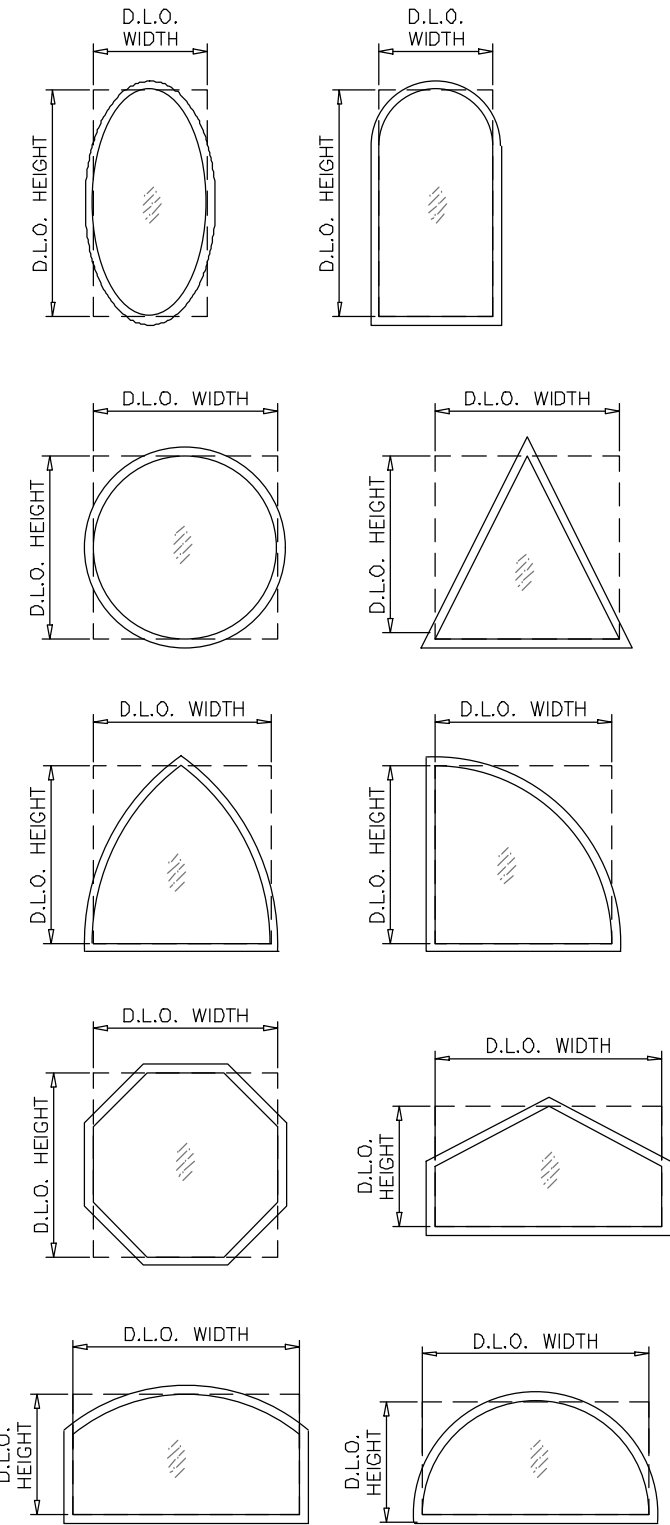
DRAWN: James

DATE: 08/26/2022

DWG: AD11-21

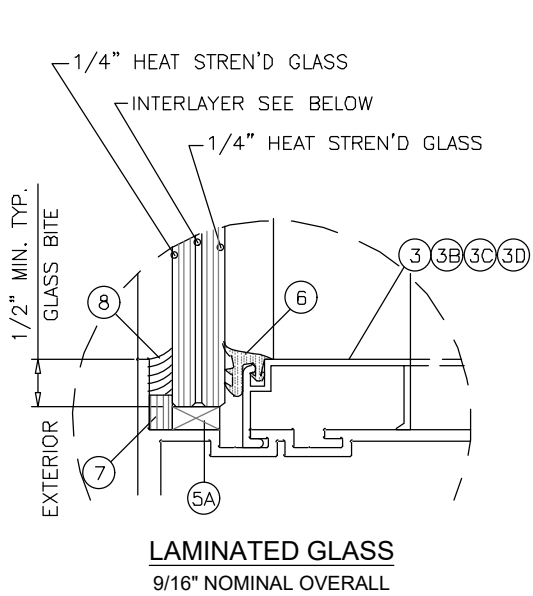
DRAWING No:

1 OF 14

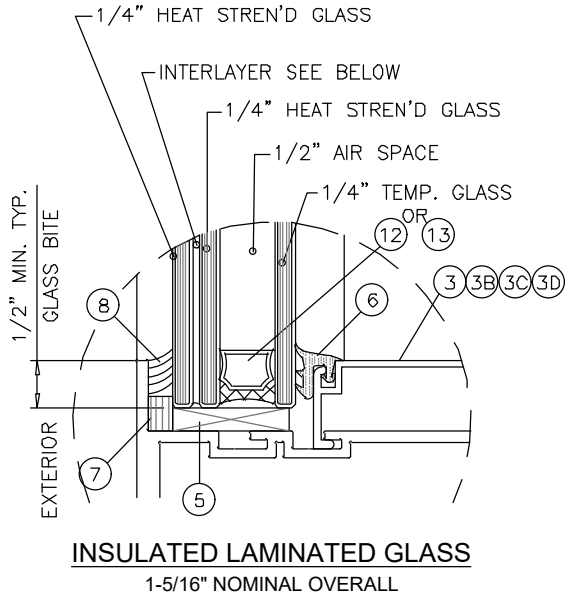


ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES. SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.

FOR ALTERNATE SHAPES LIMIT MAX. LOADS TO ± 90.0 PSF
SEE SHEET 3 FOR D.L.O. WIDTHS AND HEIGHTS.
USE ANCHOR TYPE 'D' AT 3" FROM FRAME ENDS AND 10" O.C. MAX. SPACING.



LAMINATED GLASS INTERLAYER TYPE:
TYPE"A": 0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYERS BY 'EASTMAN CHEMICAL COMPANY'
TYPE"B": 0.100" SAFLEX HP CLEAR AND COLOR GLASS INTERLAYERS BY 'EASTMAN CHEMICAL COMPANY'
TYPE"C": 0.090" KURARAY SENTRYGLAS INTERLAYER BY 'KURARAY AMERICA, INC.'
TYPE"D": 0.090" EVERLAM™ SUPER TOUGH PVB INTERLAYER
TYPE"E": 0.090" EVERLAM™ LAM50 PVB INTERLAYER



INSULATED LAMINATED GLASS INTERLAYER TYPE:
TYPE"A1": 0.090" SAFLEX PVB CLEAR AND COLOR GLASS INTERLAYERS BY 'EASTMAN CHEMICAL COMPANY'
TYPE"B1": 0.100" SAFLEX HP CLEAR AND COLOR GLASS INTERLAYERS BY 'EASTMAN CHEMICAL COMPANY'
TYPE"C1": 0.090" KURARAY SENTRYGLAS INTERLAYER BY 'KURARAY AMERICA, INC.'
TYPE"D1": 0.090" EVERLAM™ SUPER TOUGH PVB INTERLAYER
TYPE"E1": 0.090" EVERLAM™ LAM50 PVB INTERLAYER

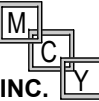
PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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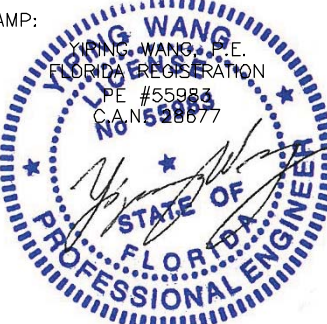
ENGINEER:



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PRODUCT CONTROL APPROVAL:

FL #25676

DRAWN: James	DRAWING No:
DATE: 08/26/2022	2 OF 14
DWG: AD11-21	

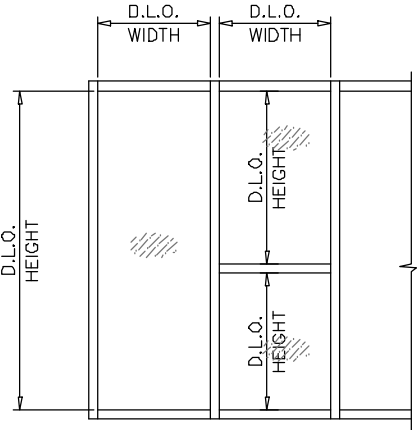
GLAZING OPTION

GLASS LOAD CAPACITY – PSF								
NOMINAL DIMS.		GLASS 'A'	GLASS 'A1'	GLASS 'B'	GLASS 'B1'	GLASS 'C'/'C1'	GLASS 'D'/'D1'	GLASS 'E'/'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
20"	68"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
44"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
50"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
56"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
62"		70.0	80.0	100.0	100.0	100.0	–	–
68"	74"	70.0	–	100.0	100.0	100.0	–	–
72"		70.0	–	100.0	100.0	100.0	–	–
20"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
48"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
50"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
56"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
62"		70.0	–	100.0	100.0	100.0	–	–
68"		–	–	100.0	100.0	100.0	–	–
72"		–	–	100.0	100.0	100.0	–	–
20"	80"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
45"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
50"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
56"		70.0	–	100.0	100.0	100.0	–	–
62"		–	–	100.0	100.0	100.0	–	–
68"	86"	–	–	100.0	100.0	100.0	–	–
72"		–	–	100.0	100.0	100.0	–	–
20"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
42"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
44"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
50"		70.0	–	100.0	100.0	100.0	–	–
56"	92"	–	–	100.0	100.0	100.0	–	–
62"		–	–	100.0	100.0	100.0	–	–
68"		–	–	100.0	100.0	100.0	–	–
72"		–	–	100.0	100.0	100.0	–	–

GLASS LOAD CAPACITY – PSF								
NOMINAL DIMS.		GLASS 'A'	GLASS 'A1'	GLASS 'B'	GLASS 'B1'	GLASS 'C'/'C1'	GLASS 'D'/'D1'	GLASS 'E'/'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
20"	98"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
44"		70.0	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–
56"		–	–	100.0	100.0	100.0	–	–
62"		–	–	100.0	100.0	100.0	–	–
20"	104"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
34"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
44"		70.0	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–
56"		–	–	100.0	100.0	100.0	–	–
62"		–	–	100.0	100.0	100.0	–	–
20"	110"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
38"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
44"		70.0	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–
56"		–	–	100.0	100.0	100.0	–	–
62"		–	–	97.5	100.0	–	–	–
20"	116"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
38"		70.0	–	100.0	100.0	100.0	–	–
44"		–	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–
56"		–	–	97.9	100.0	100.0	–	–
58–3/4"		–	–	94.6	100.0	–	–	–
20"	122"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
38"		70.0	–	100.0	100.0	100.0	–	–
44"		–	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–
20"	128"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	80.0	100.0	100.0	100.0	+70/-85	–
38"		70.0	–	100.0	100.0	100.0	–	–
44"		–	–	100.0	100.0	100.0	–	–
50"		–	–	100.0	100.0	100.0	–	–

GLASS LOAD CAPACITY – PSF								
NOMINAL DIMS.		GLASS 'A'	GLASS 'A1'	GLASS 'B'	GLASS 'B1'	GLASS 'C'/'C1'	GLASS 'D'/'D1'	GLASS 'E'/'E1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
20"	134"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	–	100.0	100.0	100.0	–	–
38"		–	–	100.0	100.0	100.0	–	–
44"		–	–	100.0	100.0	100.0	–	–
50"		–	–	99.8	100.0	–	–	–
20"	140"	70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
26"		70.0	80.0	100.0	100.0	100.0	+70/-85	+65/-75
32"		70.0	–	100.0	100.0	100.0	–	–
38"		–	–	100.0	100.0	100.0	–	–
44"		–	–	100.0	100.0	100.0	–	–
45 1/4"		–	–	100.0	100.0	100.0	–	–

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





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PRODUCT:

Resistor
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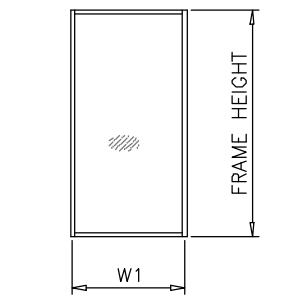
PRODUCT CONTROL APPROVAL:

FL #25676

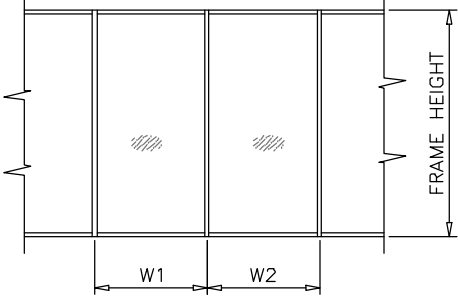
DRAWN: James	DRAWING No:
DATE: 08/26/2022	3 OF 14
DWG: AD11-21	

JAMB/MULLION LOAD CAPACITY – PSF				
WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' MULL 'M3'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		80.0	100.0	100.0
54"		80.0	100.0	100.0
60"		80.0	100.0	100.0
66"		–	100.0	100.0
72"		–	100.0	100.0
24"	84"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		80.0	100.0	100.0
54"		80.0	100.0	100.0
60"		80.0	100.0	100.0
66"		–	100.0	100.0
72"		–	100.0	100.0
24"	90"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		80.0	100.0	100.0
54"		77.4	100.0	100.0
60"		–	100.0	100.0
66"		–	100.0	100.0
72"		–	100.0	100.0
24"	96"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		72.8	100.0	100.0
54"		66.3	100.0	100.0
60"		55.0	96.8	96.8
66"		51.5	90.9	90.9
72"		49.0	86.4	86.4
24"	102"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		73.5	100.0	100.0
42"		64.0	100.0	100.0
48"		57.0	99.5	99.5
54"		51.5	90.4	90.4
60"		47.9	83.3	83.3
66"		44.5	77.9	77.9
72"		–	73.7	73.7

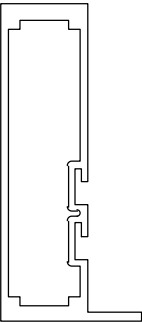
JAMB/MULLION LOAD CAPACITY – PSF				
WITHOUT INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' MULL 'M3'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	80.0	100.0	100.0
30"		77.5	100.0	100.0
36"		65.0	100.0	100.0
42"		56.5	98.0	98.0
48"		50.5	87.1	87.1
54"		45.5	78.9	78.9
60"		42.0	72.5	72.5
66"		39.0	67.6	67.6
24"	114"	80.0	100.0	100.0
30"		69.0	100.0	100.0
36"		58.0	98.2	98.2
42"		50.5	85.4	85.4
48"		45.0	76.0	76.0
54"		40.5	69.0	69.0
60"		37.4	63.5	63.5
24"	120"	76.5	100.0	100.0
30"		61.5	99.5	99.5
36"		52.0	83.8	83.8
42"		45.0	72.8	72.8
48"		40.0	64.7	64.7
54"		36.0	58.6	60.0
60"		–	53.8	60.0
24"	126"	66.0	100.0	60.0
30"		53.0	81.5	60.0
36"		44.5	69.0	60.0
42"		38.5	59.5	60.0
48"		–	53.0	60.0
54"		–	47.5	60.0
24"	132"	57.0	88.0	60.0
30"		46.0	71.0	60.0
36"		38.5	59.5	60.0
42"		–	51.5	60.0
48"		–	45.5	60.0
24"	138"	50.0	77.0	60.0
30"		40.0	62.0	60.0
36"		–	52.0	60.0
42"		–	45.0	60.0
48"		–	–	60.0
24"	144"	44.0	67.5	60.0
30"		35.5	54.5	60.0
36"		–	45.5	60.0
42"		–	–	60.0
48"		–	–	57.6



WIDTH (W) = W1 (JAMB)

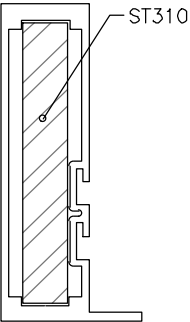


WIDTH (W) = $\frac{W1 + W2}{2}$



JAMB 'J1'

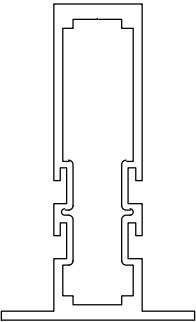
JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932



JAMB 'J2'

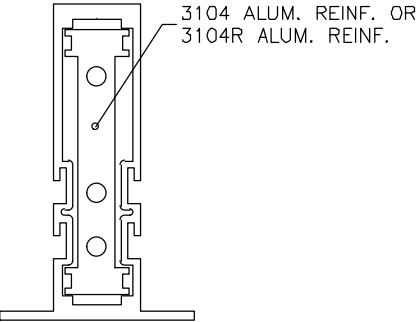
STEEL REINFORCED

JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932
ST310	3.333X2.9 (IN ALUM.)	
TOTAL (IN ALUM.)	14.2146	



MULLION 'M1'

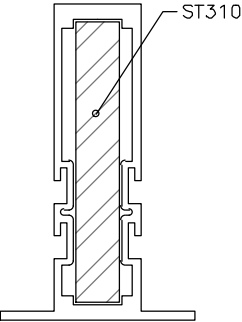
MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348



MULLION 'M2'

ALUMINUM REINFORCED

MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348
3104 / 3104R	2.7365	1.4483
TOTAL (IN ALUM.)	7.8200	–



MULLION 'M3'

STEEL REINFORCED

MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348
ST310	3.333X2.9 (IN ALUM.)	
TOTAL (IN ALUM.)	14.7501	–



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PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.



REV#	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

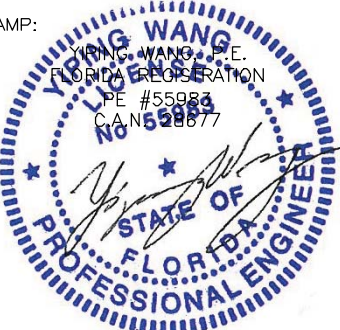
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL. 33027
P: 305-271-0117
Email: MCY@mcyengineering.com
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STAMP:



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

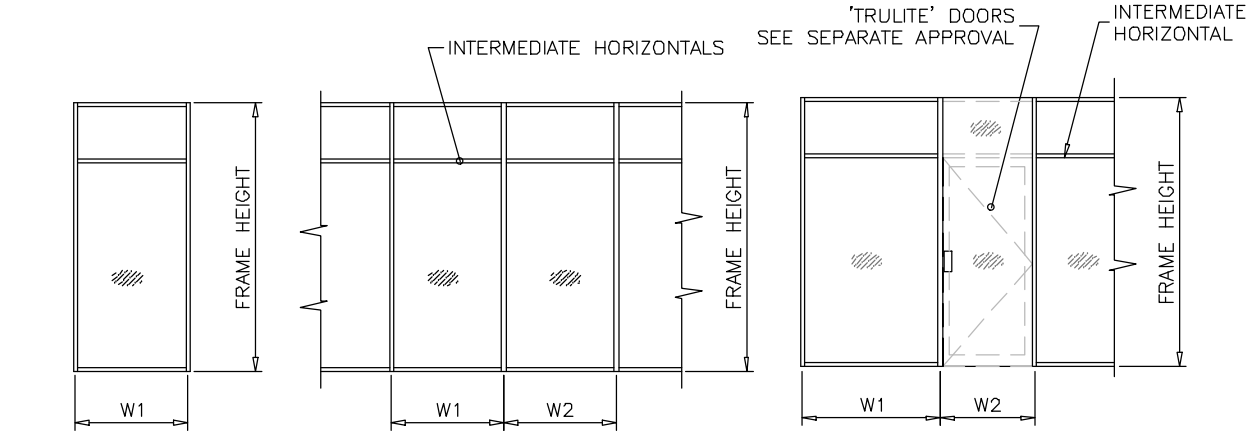
FL #25676

DRAWN: James
DATE: 08/26/2022
DWG: AD11–21

DRAWING No:
4 OF 14

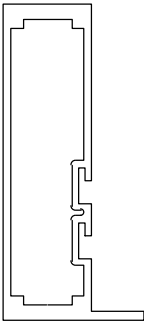
JAMB/MULLION LOAD CAPACITY – PSF				
WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' MULL 'M3'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	78"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		80.0	100.0	100.0
54"		80.0	100.0	100.0
60"		80.0	100.0	100.0
66"		–	100.0	100.0
72"		–	100.0	100.0
24"	84"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		80.0	100.0	100.0
54"		80.0	100.0	100.0
60"		72.1	100.0	100.0
66"		–	100.0	100.0
72"		–	93.9	93.9
24"	90"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		80.0	100.0	100.0
48"		78.6	100.0	100.0
54"		69.8	100.0	100.0
60"		–	97.0	97.0
66"		–	88.2	88.2
72"		–	80.9	80.9
24"	96"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		80.0	100.0	100.0
42"		78.9	100.0	100.0
48"		69.0	100.0	100.0
54"		61.4	93.7	93.7
60"		47.0	84.3	84.3
66"		42.5	76.7	76.7
72"		39.0	70.3	70.3
24"	102"	80.0	100.0	100.0
30"		80.0	100.0	100.0
36"		69.5	100.0	100.0
42"		59.5	100.0	100.0
48"		52.0	92.9	92.9
54"		46.0	82.6	82.6
60"		41.5	74.3	74.3
66"		37.5	67.6	67.6
72"		–	61.9	61.9

JAMB/MULLION LOAD CAPACITY – PSF				
WITH INTERMEDIATE HORIZONTALS				
NOMINAL DIMS.		MULL 'M1'	JAMB 'J1' MULL 'M2'	JAMB 'J2' MULL 'M3'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
24"	108"	80.0	100.0	100.0
30"		74.0	100.0	100.0
36"		62.0	100.0	100.0
42"		53.0	94.7	94.7
48"		46.5	82.9	82.9
54"		41.0	73.7	73.7
60"		37.0	66.3	66.3
66"		–	60.3	60.3
24"	114"	80.0	100.0	100.0
30"		66.5	100.0	100.0
36"		55.5	94.5	94.5
42"		47.5	81.0	81.0
48"		41.5	70.9	70.9
54"		37.0	63.0	63.0
60"		–	56.7	60.0
24"	120"	75.0	100.0	100.0
30"		60.0	97.3	97.3
36"		50.0	81.1	81.1
42"		43.0	69.5	69.5
48"		37.5	60.8	60.8
54"		–	54.0	60.0
60"		–	48.6	60.0
24"	126"	65.0	100.0	60.0
30"		52.0	80.0	60.0
36"		43.0	66.5	60.0
42"		37.0	57.0	60.0
48"		–	50.0	60.0
54"		–	–	60.0
24"	132"	56.5	87.0	60.0
30"		45.0	69.5	60.0
36"		37.5	58.0	60.0
42"		–	49.5	60.0
48"		–	–	60.0
24"	138"	49.5	76.0	60.0
30"		39.5	60.5	60.0
36"		–	50.5	60.0
42"		–	–	60.0
48"		–	–	60.0
24"	144"	43.5	67.0	60.0
30"		35.0	53.5	60.0
36"		–	–	60.0
42"		–	–	60.0
48"		–	–	55.2



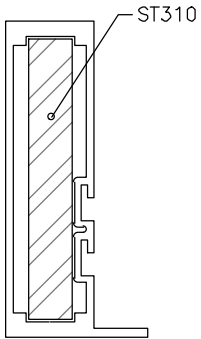
WIDTH (W) = W1 (JAMB)

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



JAMB 'J1'

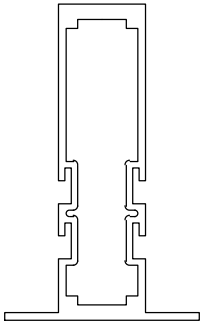
JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932



JAMB 'J2'

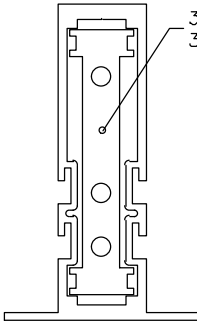
STEEL REINFORCED

JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932
ST310	3.333X2.9 (IN ALUM.)	
TOTAL (IN ALUM.)	14.2146	



MULLION 'M1'

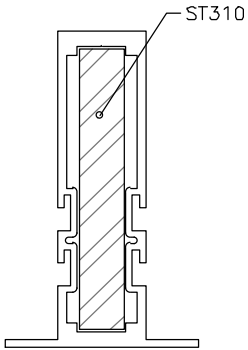
MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348



MULLION 'M2'

ALUMINUM REINFORCED

MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348
3104 / 3104R	2.7365	1.4483
TOTAL (IN ALUM.)	7.8200	–



MULLION 'M3'

STEEL REINFORCED

MULLION	Ix(IN^4)	Sx(IN^3)
3102	5.0835	2.0348
ST310	3.333X2.9 (IN ALUM.)	
TOTAL (IN ALUM.)	14.7501	–

STEP 3: MULLION LOAD CAPACITIES



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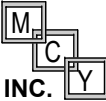
PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.



REV#	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

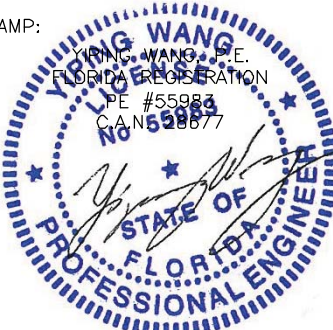
ENGINEER:



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 #25676

DRAWN: James

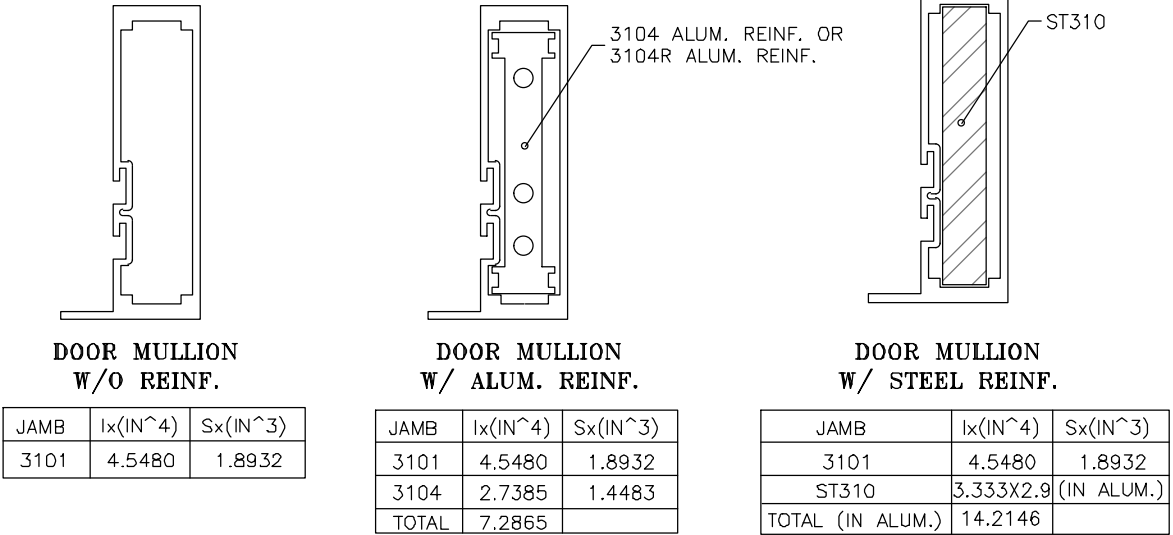
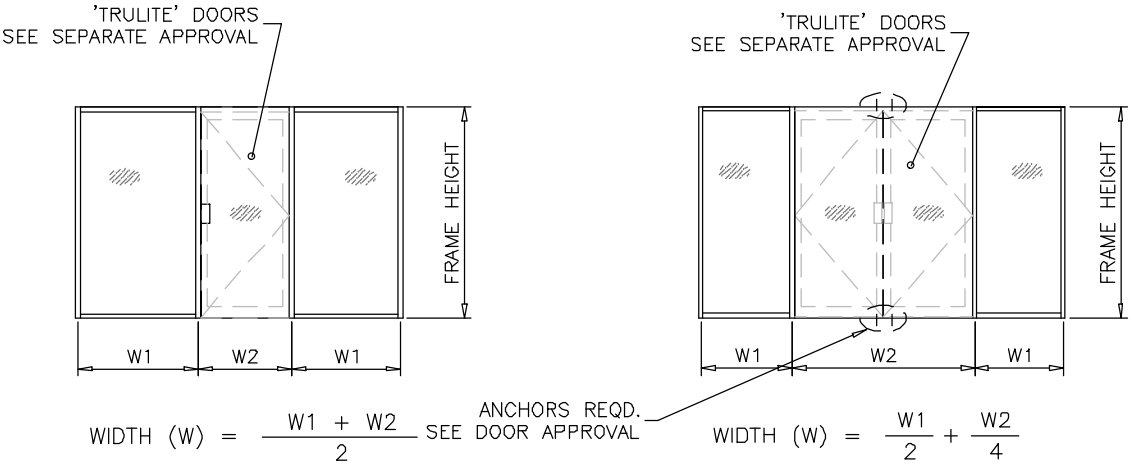
DATE: 08/26/2022

DWG: AD11–21

DRAWING No:

5 OF 14

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.		WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W)	FRAME HEIGHT	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)	EXT.(+) / INT.(–)
30"	81–1/4"	87.0	87.0	87.0
36"		87.0	87.0	87.0
42"		87.0	87.0	87.0
48"		87.0	87.0	87.0
54"		–	87.0	87.0
60"		–	87.0	87.0
30"	85–1/4"	87.0	87.0	87.0
36"		87.0	87.0	87.0
42"		87.0	87.0	87.0
48"		84.5	87.0	87.0
54"		–	87.0	87.0
60"		–	87.0	87.0
30"	91–1/4"	87.0	87.0	87.0
36"		87.0	87.0	87.0
42"		80.7	87.0	87.0
48"		–	87.0	87.0
54"		–	87.0	87.0
60"		–	87.0	87.0
30"	97–1/4"	87.0	87.0	87.0
36"		77.8	87.0	87.0
42"		66.7	87.0	87.0
48"		57.0	87.0	87.0
54"		51.5	87.0	87.0
60"		48.0	79.1	87.0
30"	102"	78.0	87.0	87.0
36"		65.5	87.0	87.0
42"		57.0	87.0	87.0
48"		51.0	87.0	87.0
54"		46.0	79.9	87.0
60"		42.5	71.9	87.0
30"	108"	69.0	87.0	87.0
36"		58.5	87.0	87.0
42"		50.5	87.0	87.0
48"		45.0	79.3	87.0
54"		41.0	70.5	87.0
60"		37.5	63.5	87.0
30"	114"	62.0	87.0	87.0
36"		52.0	87.0	87.0
42"		45.0	77.1	87.0
48"		40.0	67.5	87.0
54"		36.0	60.0	87.0
60"		–	54.0	78.0
30"	120"	55.0	87.0	87.0
36"		46.5	77.1	87.0
42"		40.5	66.1	87.0
48"		36.0	57.8	87.0
54"		–	51.4	78.0
60"		–	46.3	71.0



STEP 3: MULLION LOAD CAPACITIES



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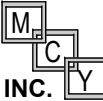
PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.



REV#	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

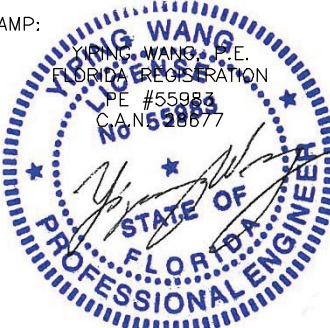
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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MIRAMAR, FL. 33027
P: 305-271-0117
Email: MCY@mcyengineering.com
www.MCYEngineering.com

STAMP:



September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #25676

DRAWN: James

DATE: 08/26/2022

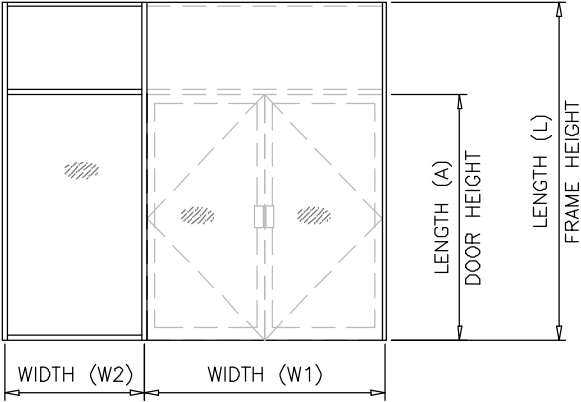
DWG: AD11–21

DRAWING No:

6 OF 14

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						
NOMINAL DIMS.				WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
72”	24”	84”	102”	47.0	82.0	87.0
	30”			44.0	76.0	87.0
	36”			41.0	72.0	87.0
	42”			39.0	68.0	87.0
	48”			37.0	64.0	87.0
	54”			35.0	61.0	87.0
	60”			33.0	58.0	82.0
				42.0	73.0	87.0
84”	24”			39.0	68.0	87.0
	30”			37.0	65.0	87.0
	36”			35.0	61.0	87.0
	42”			34.0	59.0	84.0
	48”			32.0	56.0	80.0
	54”			31.0	53.0	76.0
96”	24”			38.0	65.0	87.0
	30”			36.0	62.0	87.0
	36”			34.0	59.0	84.0
	42”			32.0	56.0	80.0
	48”			31.0	54.0	77.0
				45.0	78.0	87.0
72”	30”	84”	108”	42.0	73.0	87.0
	36”			40.0	69.0	87.0
	42”			37.0	65.0	87.0
	48”			35.0	61.0	87.0
	54”			33.0	57.0	81.0
	60”			31.0	53.0	76.0
84”	24”			40.0	70.0	87.0
	30”			38.0	66.0	87.0
	36”			36.0	62.0	87.0
	42”			34.0	59.0	84.0
	48”			32.0	56.0	80.0
	54”			30.0	53.0	76.0
96”	24”			36.0	63.0	87.0
	30”			34.0	60.0	85.0
	36”			33.0	57.0	81.0
	42”			31.0	54.0	77.0
72”	24”	84”	114”	44.0	76.0	87.0
	30”			40.0	70.0	87.0
	36”			37.0	65.0	87.0
	42”			35.0	60.0	86.0
	48”			32.0	56.0	81.0
	54”			30.0	53.0	76.0
	60”			29.0	50.0	71.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						
NOMINAL DIMS.				WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
84”	24”	84”	114”	39.0	67.0	87.0
	30”			37.0	63.0	87.0
	36”			34.0	59.0	85.0
	42”			32.0	55.0	79.0
	48”			30.0	52.0	85.0
96”	24”			35.0	61.0	87.0
	30”			33.0	58.0	82.0
	36”			31.0	55.0	78.0
72”	24”	84”	120”	41.0	71.0	87.0
	30”			38.0	65.0	87.0
	36”			35.0	61.0	85.0
	42”			32.0	56.0	80.0
	48”			30.0	53.0	76.0
84”	24”			37.0	64.0	87.0
	30”			34.0	59.0	82.0
	36”			32.0	55.0	77.0
96”	24”			33.0	58.0	79.0





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PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.


PRODUCT SERIES

REV#	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

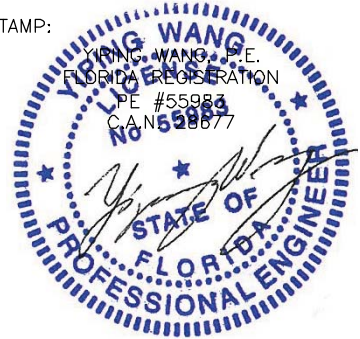
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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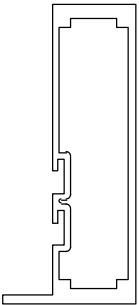
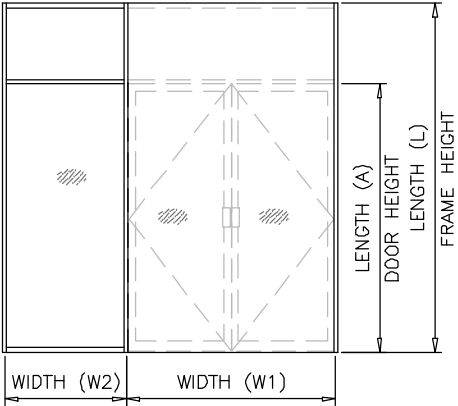
PRODUCT CONTROL APPROVAL:

FL #25676

DRAWN: James	DRAWING No:
DATE: 08/26/2022	7 OF 14
DWG: AD11-21	

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						
NOMINAL DIMS.				WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
72”	24”	90”	108”	44.0	77.0	87.0
	30”			41.0	72.0	87.0
	36”			39.0	68.0	87.0
	42”			37.0	64.0	87.0
	48”			35.0	60.0	86.0
	54”			33.0	57.0	82.0
	60”			31.0	55.0	78.0
84”	24”	90”	108”	39.0	68.0	87.0
	30”			37.0	64.0	87.0
	36”			35.0	61.0	87.0
	42”			34.0	58.0	83.0
	48”			32.0	55.0	79.0
	54”			30.0	53.0	75.0
96”	24”	90”	108”	35.0	61.0	87.0
	30”			34.0	58.0	83.0
	36”			32.0	55.0	79.0
	42”			30.0	53.0	75.0
72”	24”	90”	114”	43.0	74.0	87.0
	30”			40.0	69.0	87.0
	36”			37.0	65.0	87.0
	42”			35.0	61.0	87.0
	48”			33.0	58.0	82.0
	54”			31.0	54.0	77.0
	60”			29.0	51.0	73.0
84”	24”	90”	114”	38.0	66.0	87.0
	30”			36.0	62.0	87.0
	36”			34.0	59.0	84.0
	42”			32.0	56.0	80.0
	48”			30.0	53.0	76.0
96”	24”	90”	114”	34.0	59.0	85.0
	30”			32.0	56.0	80.0
	36”			31.0	53.0	76.0
72”	24”	90”	120”	44.0	71.0	87.0
	30”			40.0	67.0	87.0
	36”			37.0	62.0	87.0
	42”			35.0	58.0	82.0
	48”			32.0	54.0	77.0
84”	24”	90”	120”	39.0	64.0	87.0
	30”			37.0	60.0	85.0
	36”			34.0	57.0	80.0
96”	24”	90”	120”	35.0	57.0	82.0

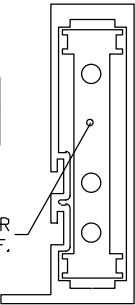
DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM						
NOMINAL DIMS.				WITHOUT REINFORCING	WITH ALUM. REINFORCING	WITH STEEL REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
72”	24”	96”	114”	42.0	72.0	87.0
	30”			39.0	68.0	87.0
	36”			37.0	64.0	87.0
	42”			35.0	60.0	86.0
	48”			33.0	57.0	82.0
	54”			31.0	54.0	77.0
	60”			30.0	52.0	74.0
84”	24”	96”	114”	37.0	64.0	87.0
	30”			35.0	61.0	87.0
	36”			33.0	58.0	82.0
	42”			31.0	55.0	78.0
96”	24”	96”	114”	30.0	52.0	74.0
	30”			33.0	58.0	83.0
	36”			32.0	55.0	79.0
72”	24”	96”	120”	40.0	70.0	87.0
	30”			38.0	65.0	87.0
	36”			35.0	61.0	87.0
	42”			33.0	58.0	83.0
84”	24”	96”	120”	32.0	55.0	79.0
	30”			36.0	62.0	87.0
	36”			34.0	59.0	84.0
				32.0	55.0	79.0
96”	24”	96”	120”	32.0	56.0	80.0
72”	24”			38.0	64.0	87.0
	30”			36.0	60.0	87.0
	36”			33.0	57.0	83.0
	42”			32.0	54.0	79.0
84”	24”	96”	120”	30.0	51.0	75.0
	30”			34.0	57.0	84.0
	36”			32.0	54.0	79.0
				30.0	51.0	75.0
96”	24”	96”	120”	30.0	51.0	75.0



DOOR MULLION
W/O REINF.

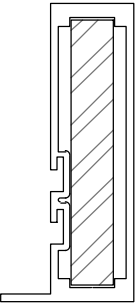
JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932

3104 ALUM. REINF. OR
3104R ALUM. REINF.



DOOR MULLION
W/ ALUM. REINF.

JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932
3104	2.7385	1.4483
TOTAL	7.2865	



DOOR MULLION
W/ STEEL REINF.

JAMB	Ix(IN^4)	Sx(IN^3)
3101	4.5480	1.8932
ST310	3.333X2.9 (IN ALUM.)	
TOTAL (IN ALUM.)	14.2146	

STEP 3: MULLION LOAD CAPACITIES



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PRODUCT:

Resistor
3100 ALUMINUM
STOREFRONT WALL -
L.M.I. & S.M.I.



REVN	DATE/REMARKS
REV. 2	10/19/20 UPDATE TO 2020FBC
REV. 3	06/21/2021 REVISION
REV. 3	09/30/2021 REVISION
REV. 4	08/26/2022 NEW GLASS SPACER

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September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #25676

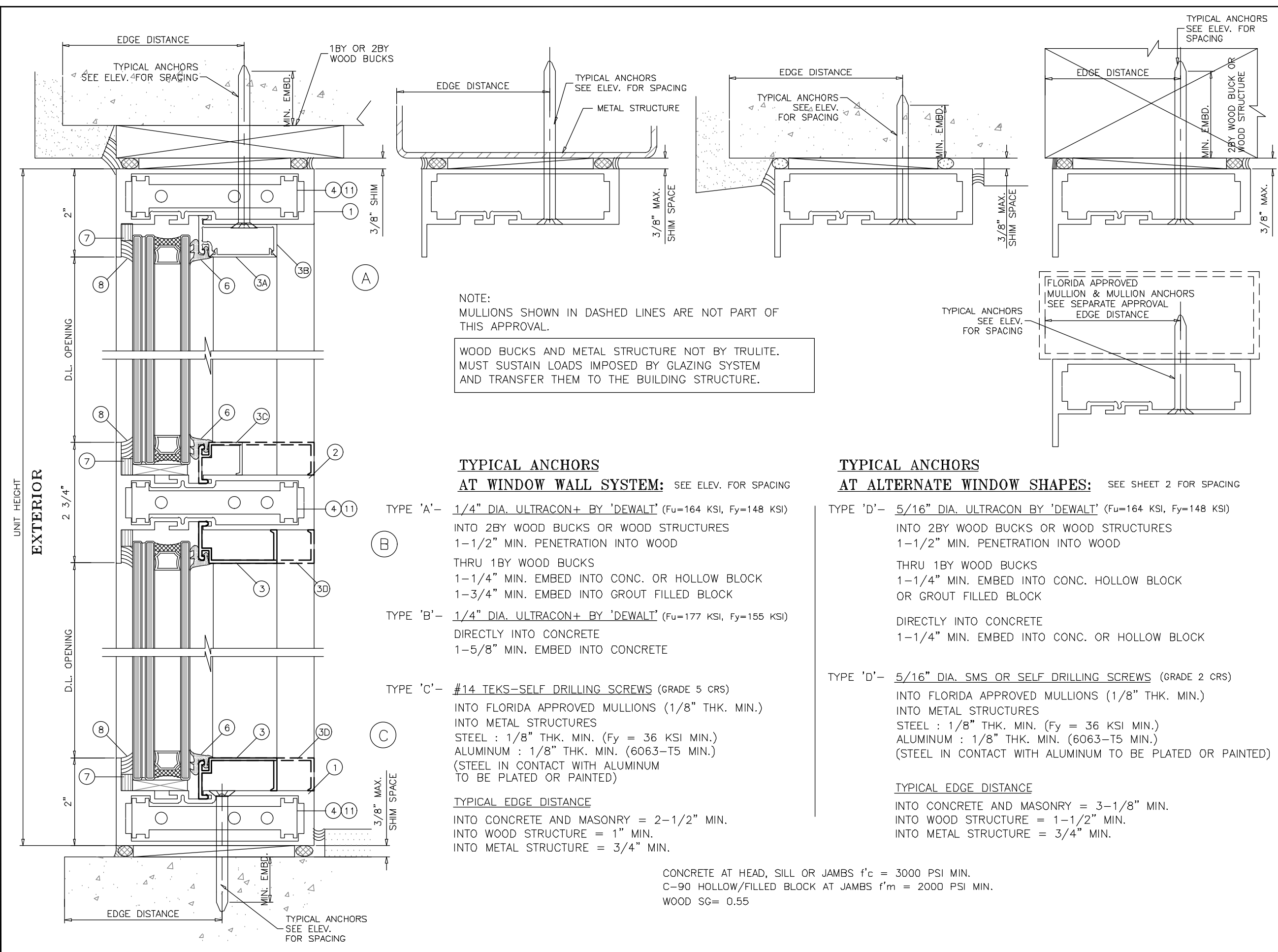
DRAWN: James

DATE: 08/26/2022

DWG: AD11-21

DRAWING No:

8 OF 14



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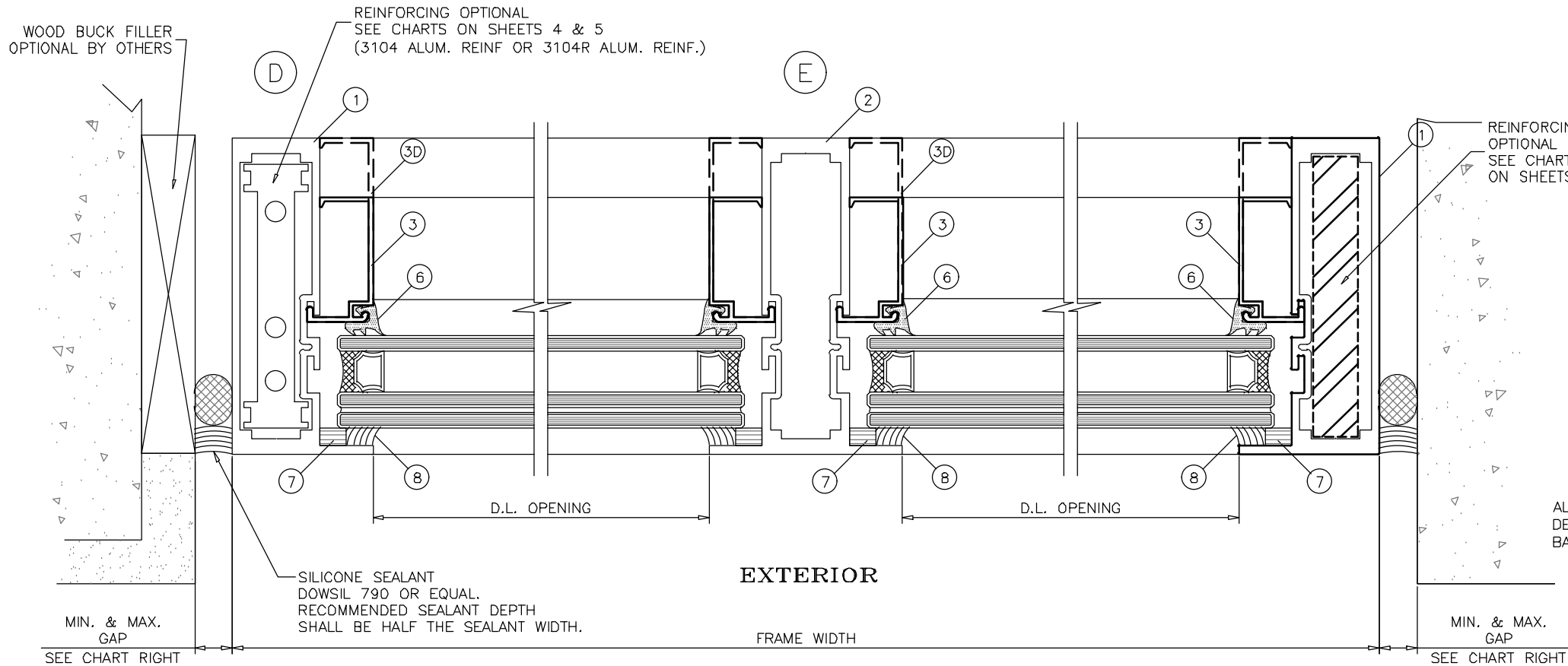
YOUNG WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 55983/77

September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #25676

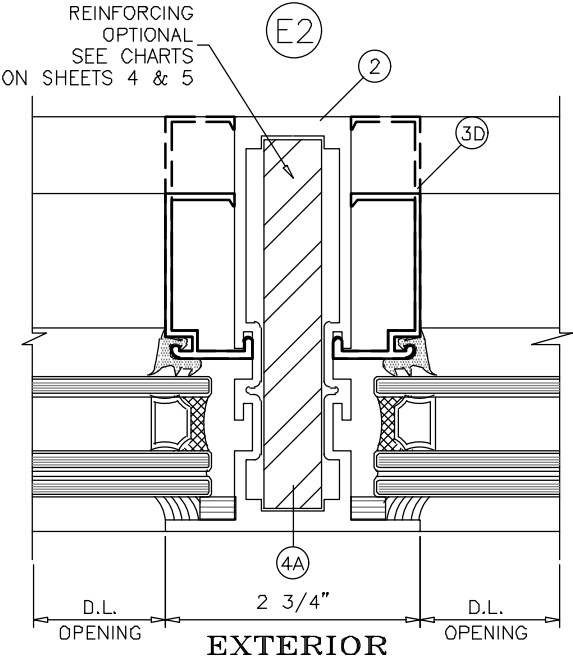
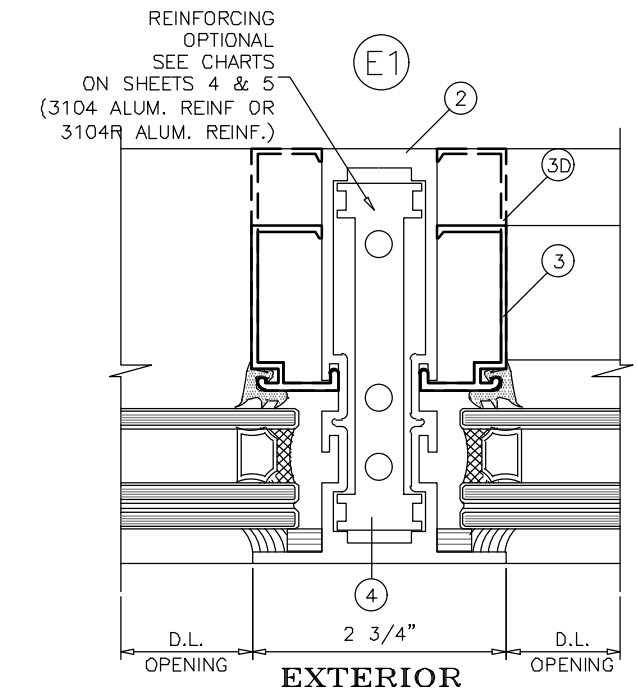
DRAWN: James	DRAWING No:
DATE: 08/26/2022	10 OF 14
DWG: AD11-21	



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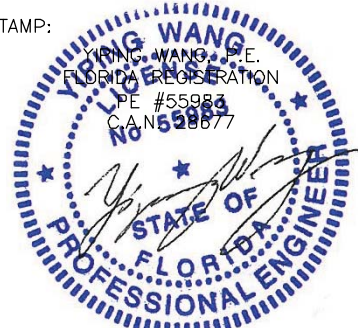
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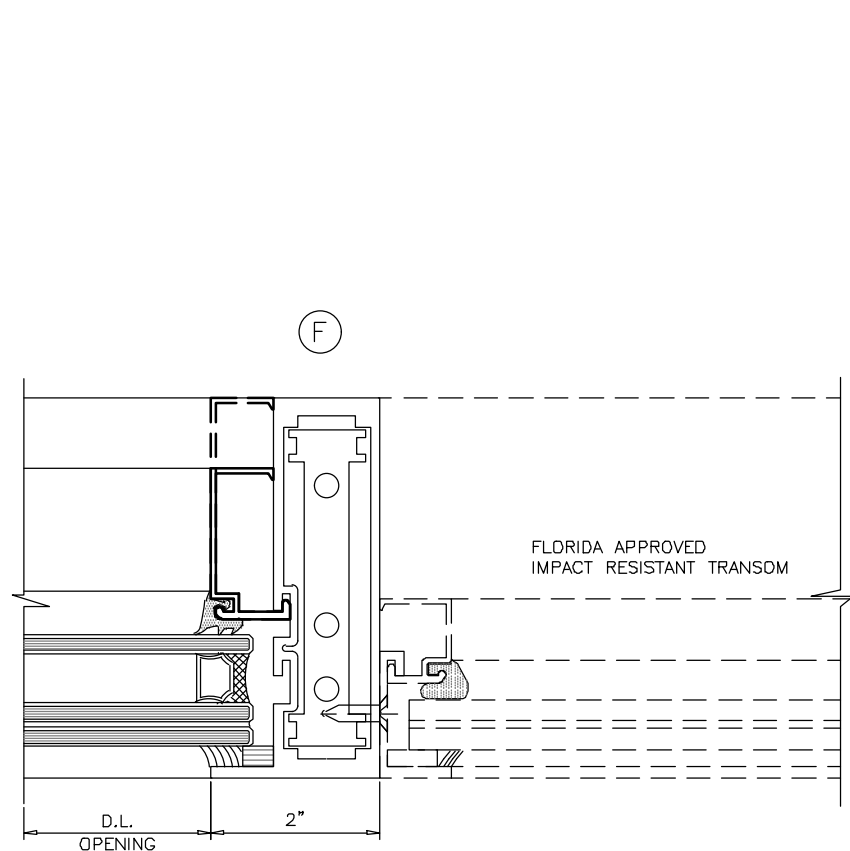


September. 6th, 2022

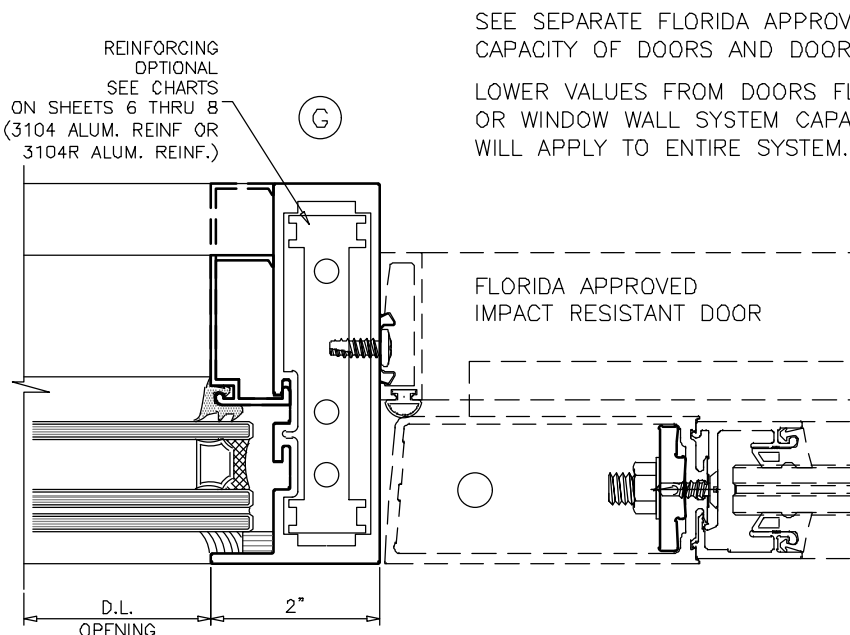
PRODUCT CONTROL APPROVAL:

FL #25676

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DATE: 08/26/2022	11 OF 14
DWG: AD11-21	

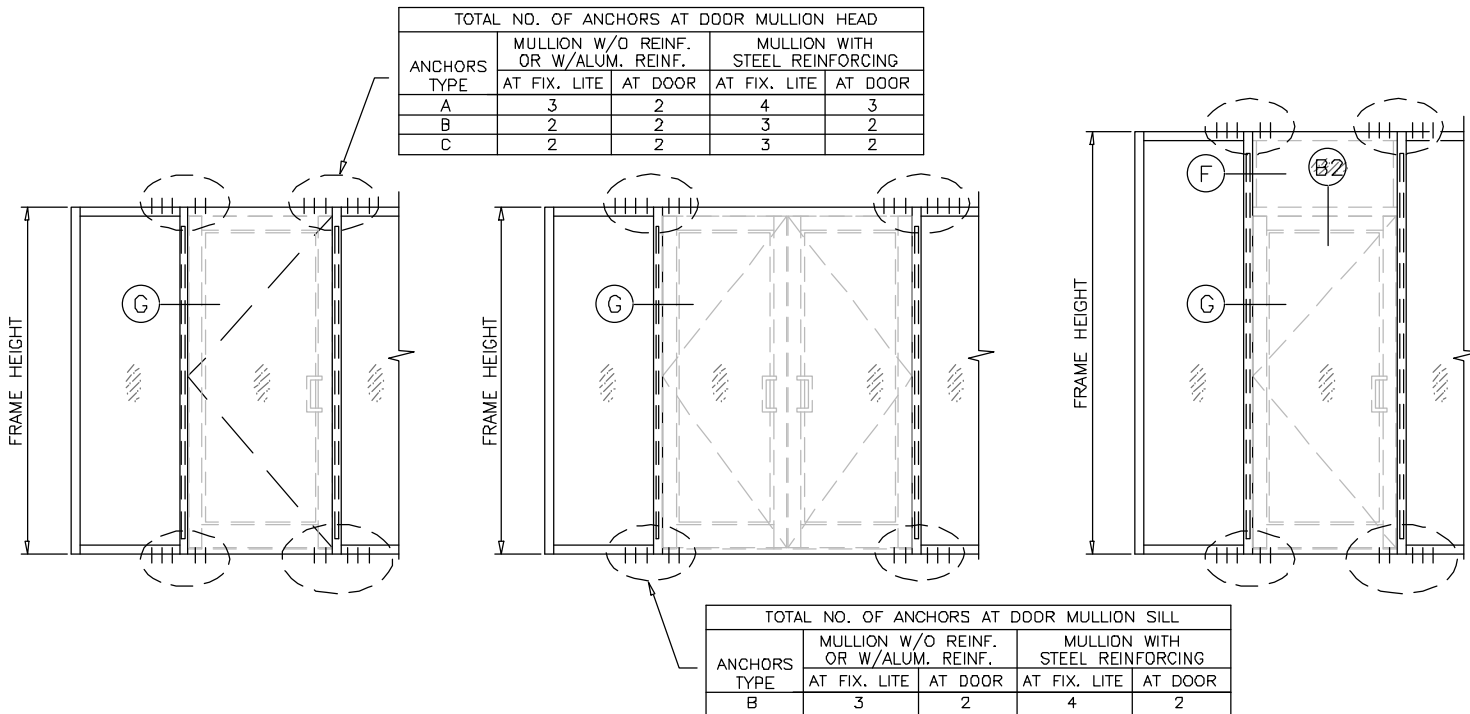


EXTERIOR

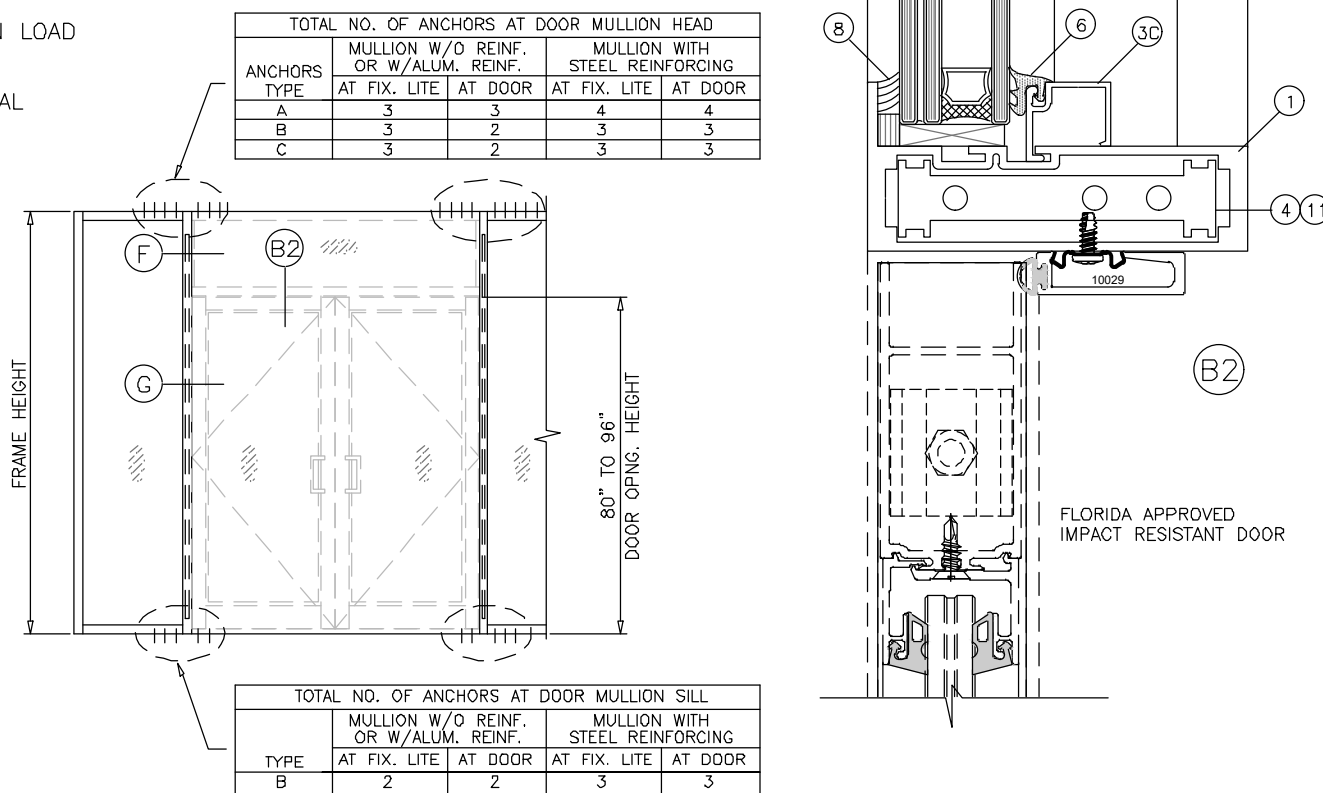


EXTERIOR

SEE SEPARATE FLORIDA APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.
 LOWER VALUES FROM DOORS FLORIDA APPROVAL OR WINDOW WALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



CHARTS SHOWN ABOVE APPLY TO ABOVE CASES ONLY.



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Resistor
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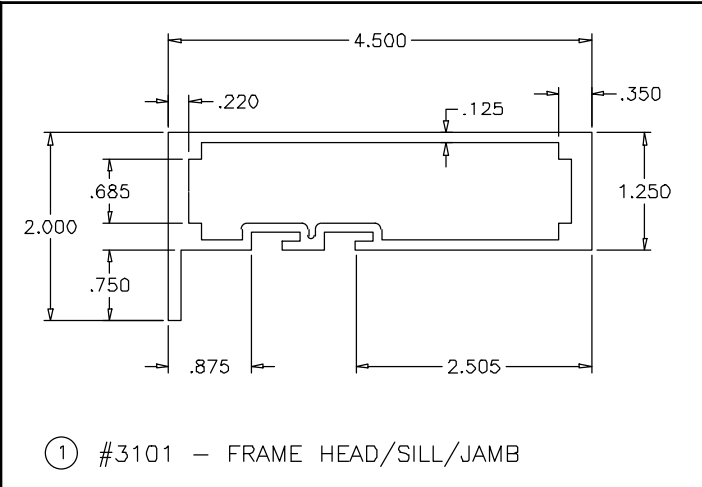
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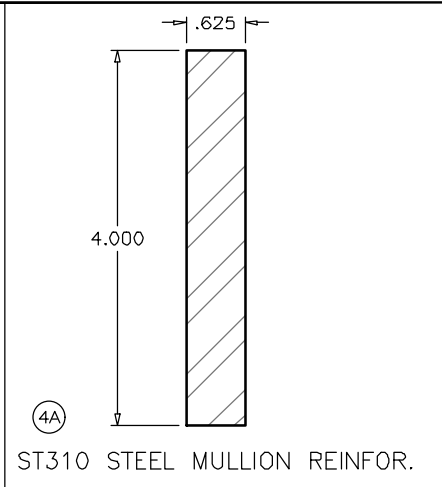
 September. 6th, 2022

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FL #25676

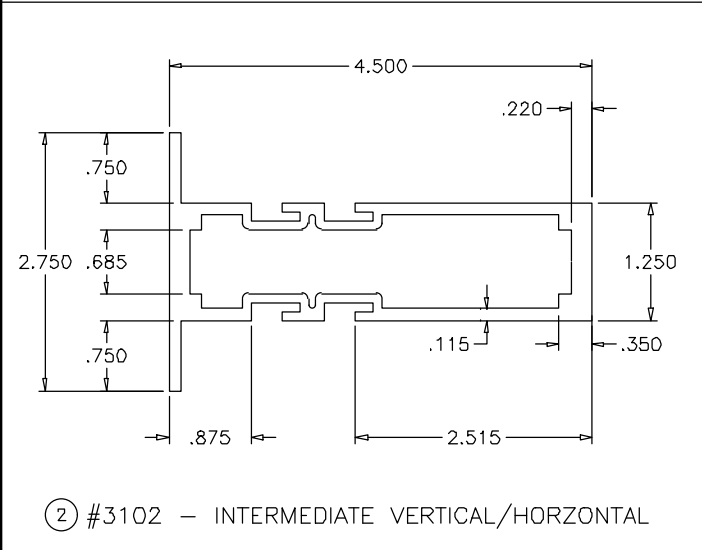
DRAWN: James	DRAWING No:
DATE: 08/26/2022	12 OF 14
DWG: AD11-21	



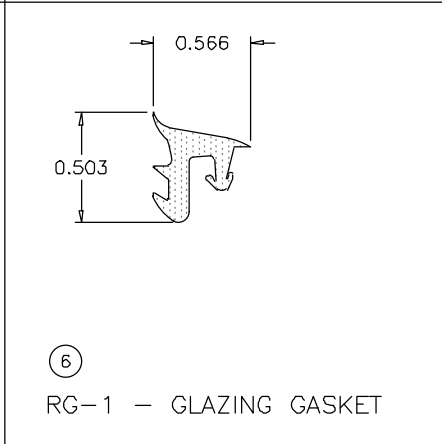
① #3101 – FRAME HEAD/SILL/JAMB



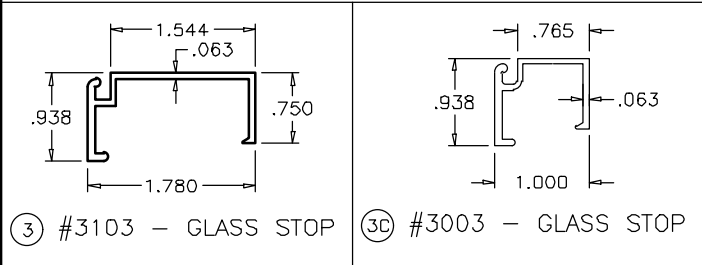
④A ST310 STEEL MULLION REINFOR.



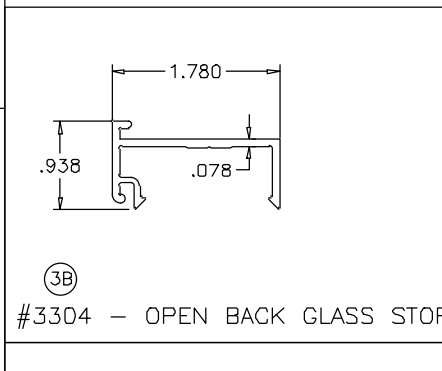
② #3102 – INTERMEDIATE VERTICAL/HORIZONTAL



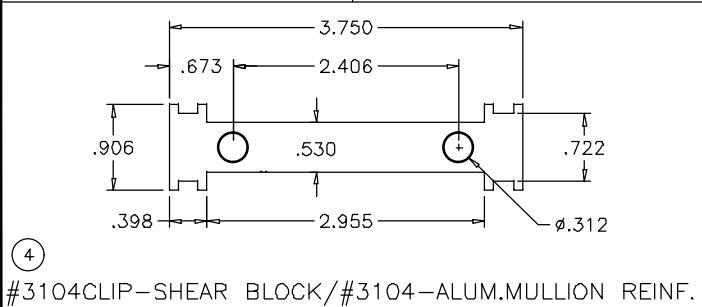
⑥ RG-1 – GLAZING GASKET



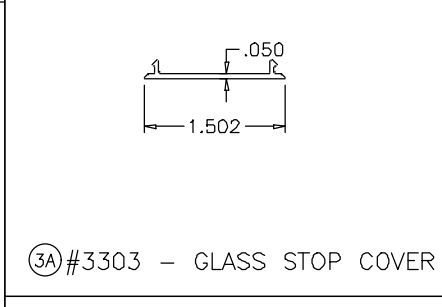
③ #3103 – GLASS STOP ③C #3003 – GLASS STOP



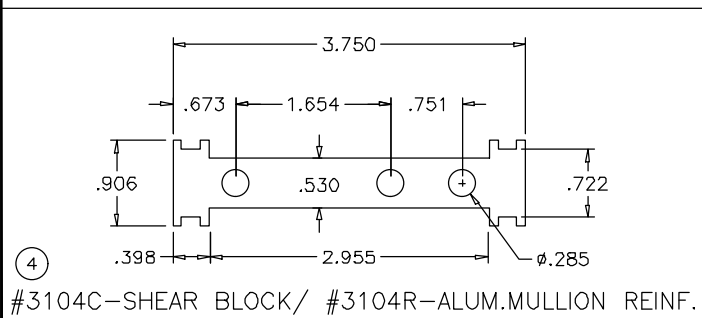
③B #3304 – OPEN BACK GLASS STOP



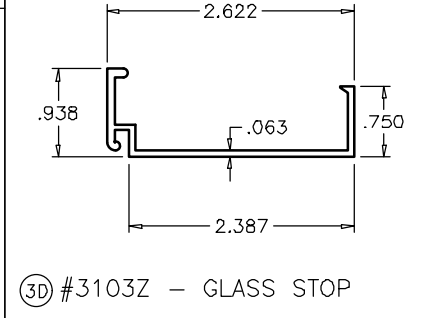
④ #3104CLIP-SHEAR BLOCK/#3104-ALUM.MULLION REINF.



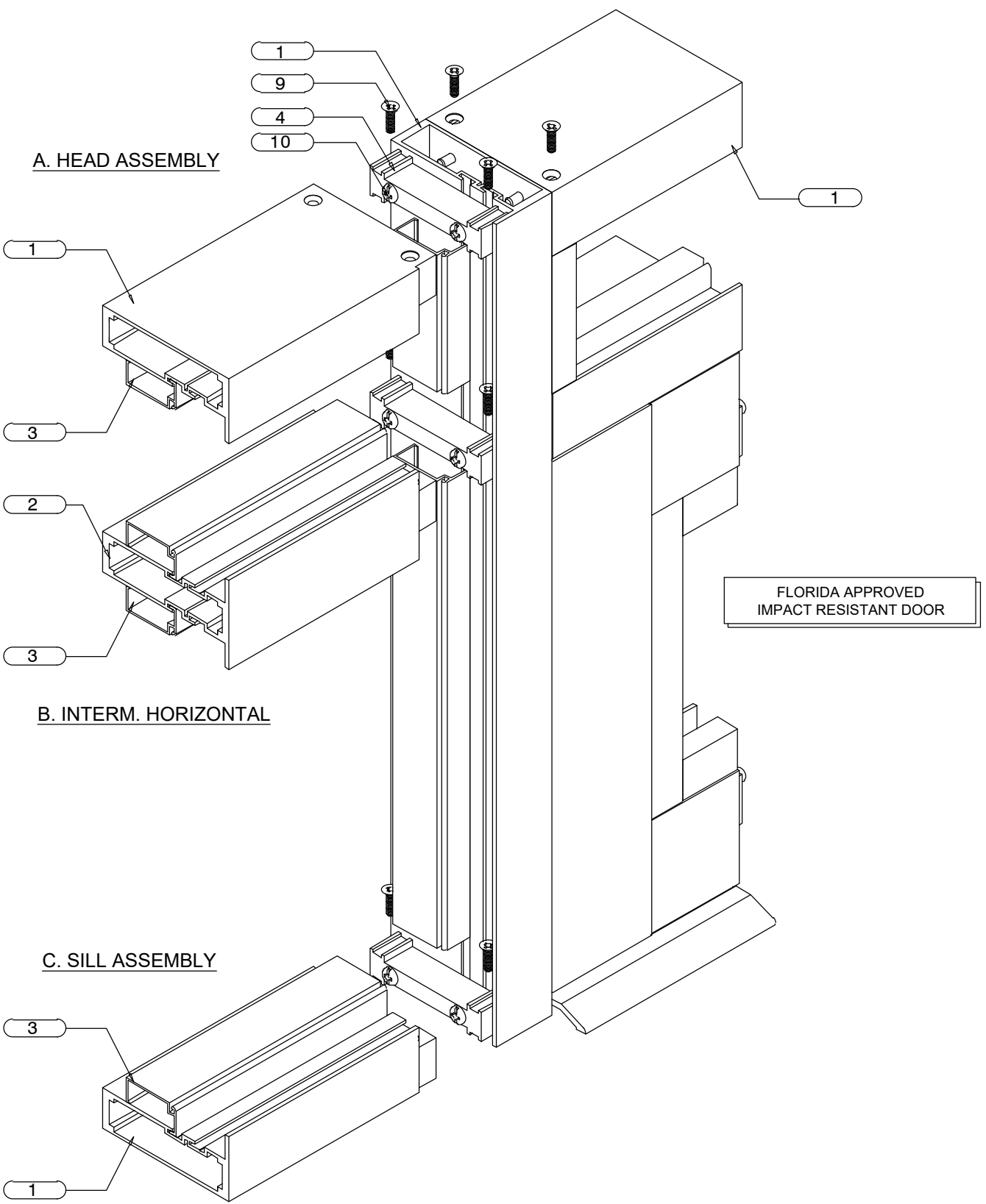
③A #3303 – GLASS STOP COVER



④ #3104C-SHEAR BLOCK/ #3104R-ALUM.MULLION REINF.



③D #3103Z – GLASS STOP



A. HEAD ASSEMBLY

B. INTERM. HORIZONTAL

C. SILL ASSEMBLY

NOTE:
DETAIL ABOVE SHOWS CONNECTION OF HORIZONTAL FRAME MEMBERS TO VERTICAL FRAMES. JAMB AND MULLION CAN BE WITH OR WITHOUT REINFORCEMENT. SEE SHEETS 4 THRU 8 FOR OPTIONS.

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



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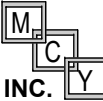
PRODUCT:

Resistor
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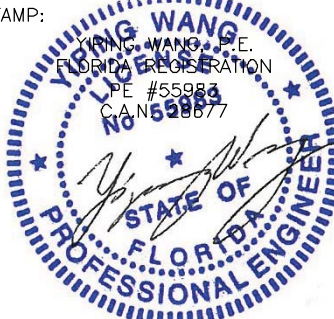
ENGINEER:



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September. 6th, 2022

PRODUCT CONTROL APPROVAL:

FL #25676

DRAWN: James

DATE: 08/26/2022

DWG: AD11-21

DRAWING No:

13 OF 14

BILL OF MATERIALS					
ITEM #	QTY.	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	AS REQD.	3101	FRAME HEAD/JAMB/JAMB	ALUM. 6063-T6	TRULITE
2	AS REQD.	3102	INTERMEDIATE VERTICAL/HORIZONTAL	ALUM. 6063-T6	TRULITE
3	AS REQD.	3103	GLASS STOP	ALUM. 6063-T6	TRULITE
3A	AS REQD.	3303	GLASS STOP COVER	ALUM. 6063-T6	TRULITE
3B	AS REQD.	3304	OPEN BACK GLASS STOP	ALUM. 6063-T6	TRULITE
3C	AS REQD.	3003	GLASS STOP	ALUM. 6063-T6	TRULITE
3D	AS REQD.	3103Z	GLASS STOP	ALUM. 6063-T6	TRULITE
4	AS REQD.	3104CLIP/3104 /3104R	SHEAR BLOCK / MULLION REINFORCING	ALUM. 6063-T6	TRULITE
4A	AS REQD.	ST310	MULLION REINFORCING	STEEL A36 MIN.	Fy = 36 ksi Min.
5	2/LITE	H62F	SETTING BLOCK (INSUL, LAM. GLASS) DUROMETER 85 +/-5	EPDM	1-3/8" X 1/4" X 4" LONG
5A	2/LITE	H62D	SETTING BLOCK (9/16" LAM. GLASS) DUROMETER 85 +/-5	EPDM	1/2" X 1/4" X 4" LONG
6	AS REQD.	RG-1	WEDGE IN GASKET DUROMETER 65 +/-5	EPDM	-
7	AS REQD.	V2100 / VK1826	GLAZING FOAM TAPE - 1/4" X 3/8"	-	ST. GOBAIN / CAPITAL TAPE
8	AS REQD.	DOWSIL 995/983	GLAZING SEALANT	SILICONE	DOW
9	2/CORNER	23163	#12-24 X 3/4" FHPMS TYPE 23	ZINC COATED STEEL	-
10	2/CORNER	23233	1/4-20 X 1-1/2" PHMS TYPE 23	ZINC COATED STEEL.	-
11	AS REQD.	3104C / 3104R	SHEAR BLOCK / MULLION REINFORCING	ALUM. 6063-T6	TRULITE
12	AS REQD.	-	ALUMINUM GLASS SPACER	ALUMINUM	HELIMA HELVETION INT. / VARIES
13	AS REQD.	-	KODISPACE 4SG WARM EDGE SPACER	THERMOPLASTIC	HB FULLER/KOMMERLING



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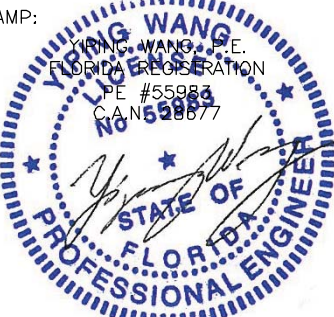
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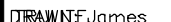
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