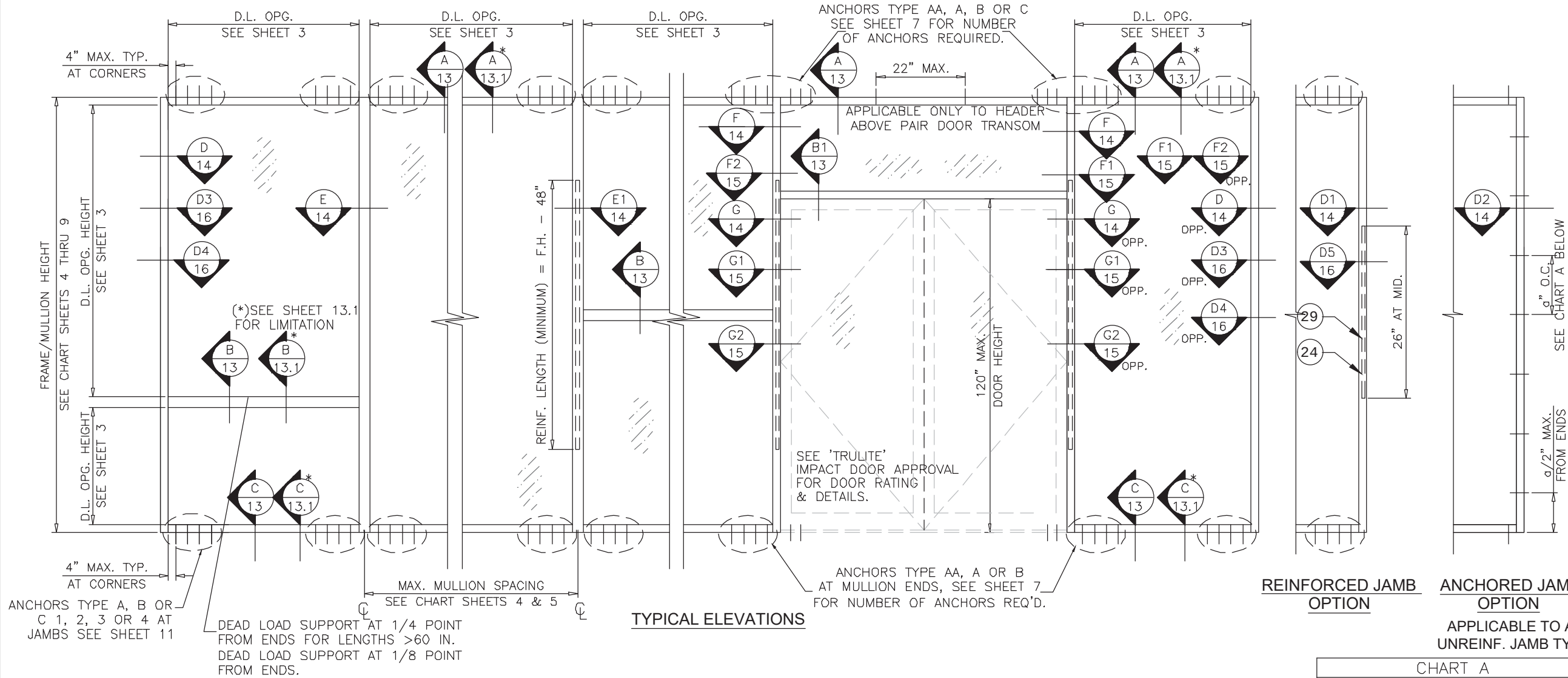




SERIES 3300 ALUMINUM STOREFRONT SYSTEM

- STOREFRONT SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
- THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS.
- CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020).
- 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).
- 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.

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 THRU 9. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4:** USING CHART ON SHEETS 10, 11 & 12 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 3300 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)

CHART A		
ANCHOR TYPE	ANCHOR SPACING "a"	
	1/4" MAX. SHIM	3/8" MAX. SHIM
AA, A, D	12"	12"
B	14"	14"
C	14"	6"

(APPLICABLE TO MAXIMUM HEIGHT, MAXIMUM SPACING AND MAXIMUM PRESSURE)

- 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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403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
MCY@MCYEngineering.com



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

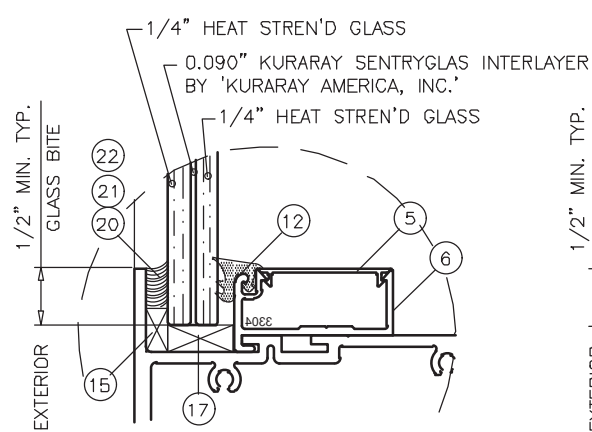
DRAWN: James

DATE: 08/26/2022

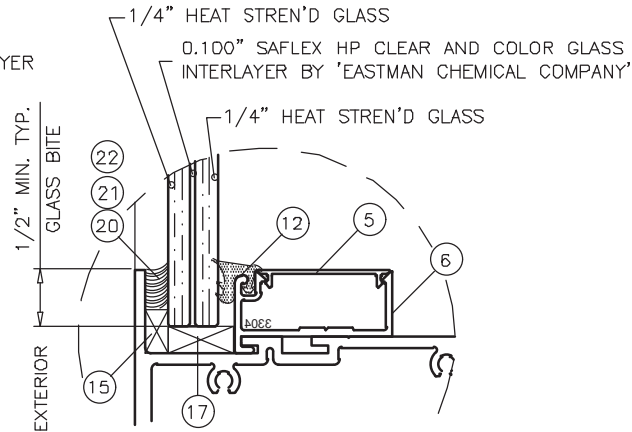
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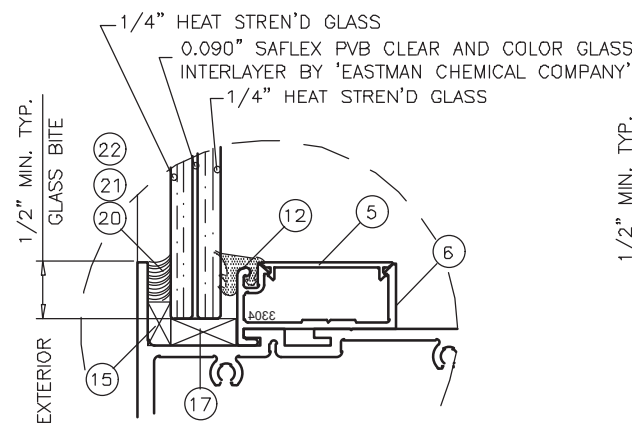
1 OF 19



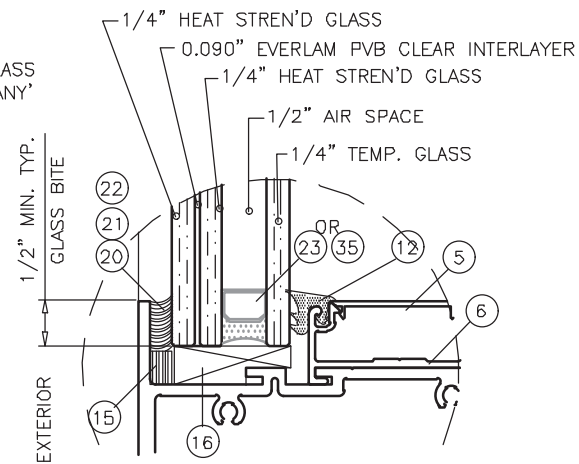
GLASS TYPE 'A'
9/16" NOMINAL OVERALL



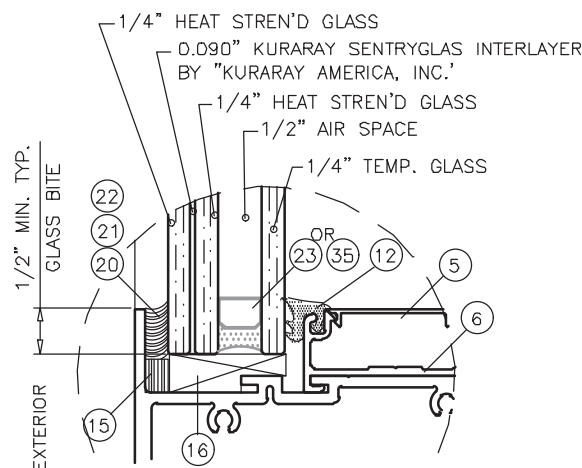
GLASS TYPE 'B'
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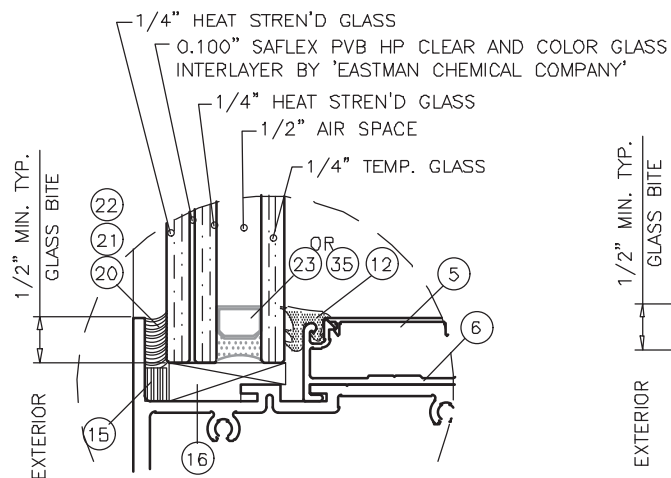
GLASS TYPE 'C'
9/16" NOMINAL OVERALL



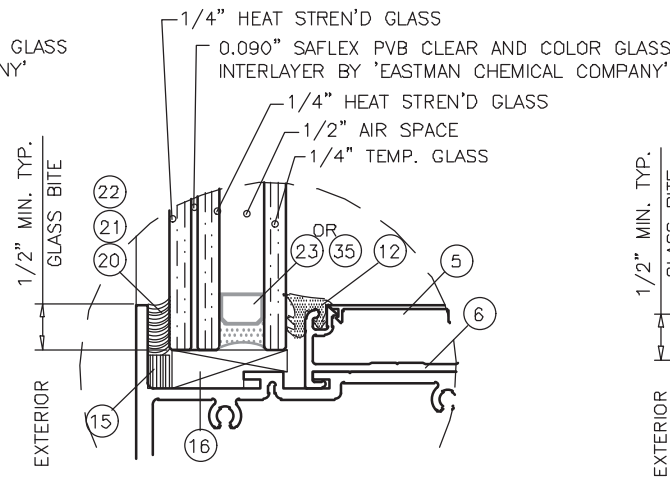
GLASS TYPE 'F'
1-5/16" NOMINAL OVERALL



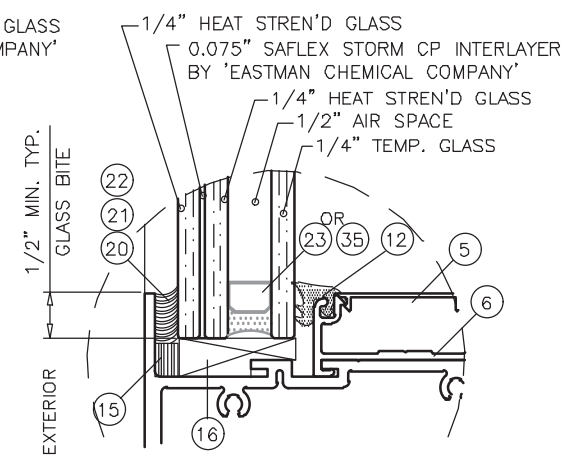
GLASS TYPE 'A1'
1-5/16" NOMINAL OVERALL



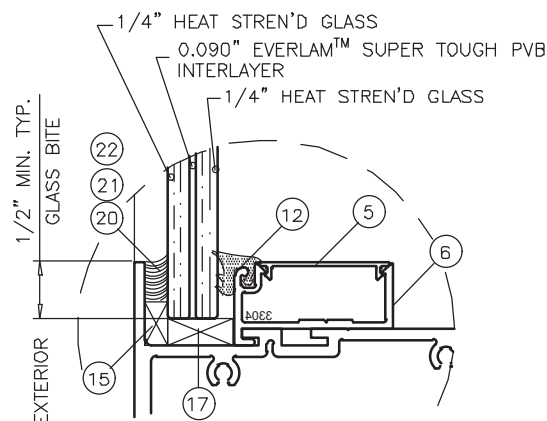
GLASS TYPE 'B1'
1-5/16" NOMINAL OVERALL



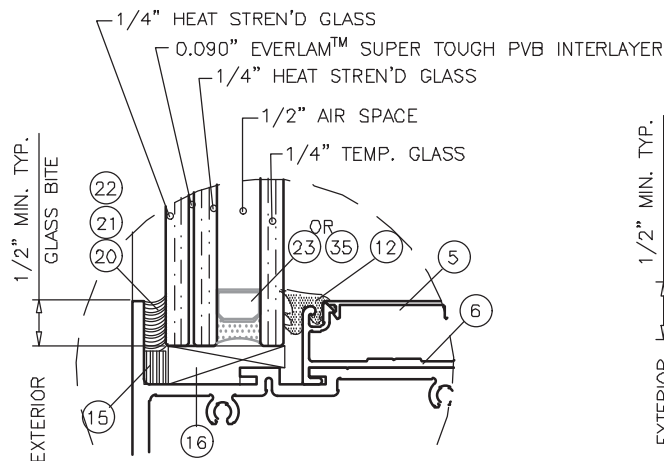
GLASS TYPE 'C1'
1-5/16" NOMINAL OVERALL



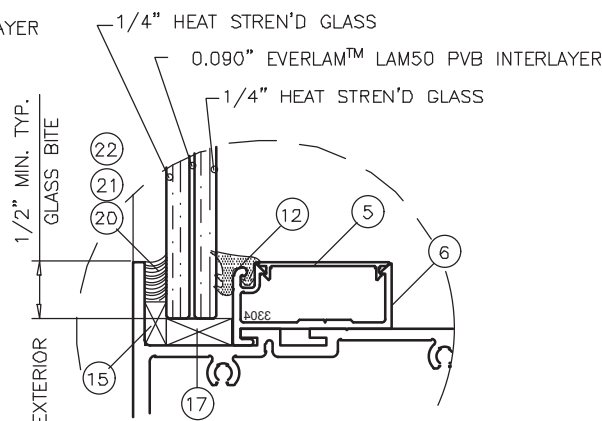
GLASS TYPE 'D1'
1-5/16" NOMINAL OVERALL



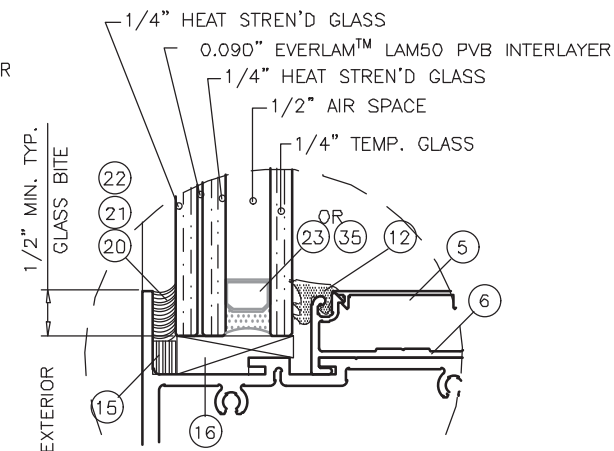
GLASS TYPE 'E'
9/16" NOMINAL OVERALL



GLASS TYPE 'E1'
1-5/16" NOMINAL OVERALL



GLASS TYPE 'G'
9/16" NOMINAL OVERALL



GLASS TYPE 'G1'
1-5/16" NOMINAL OVERALL

GLAZING OPTION

SEE SHEET 3 FOR D.L.O. WIDTHS AND HEIGHTS. V.S. DESIGN LOADS.

SILICONE OPTIONS:

- (20) - DOWSIL 995
- (21) - TREMCO PROGLAZE SSG
- (22) - SIKA SIKASIL SG-10
- (34) - DOWSIL 983



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MCY@MCYEngineering.com

STAMP:



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN: James

DATE: 08/26/2022

DWG: AD16-15

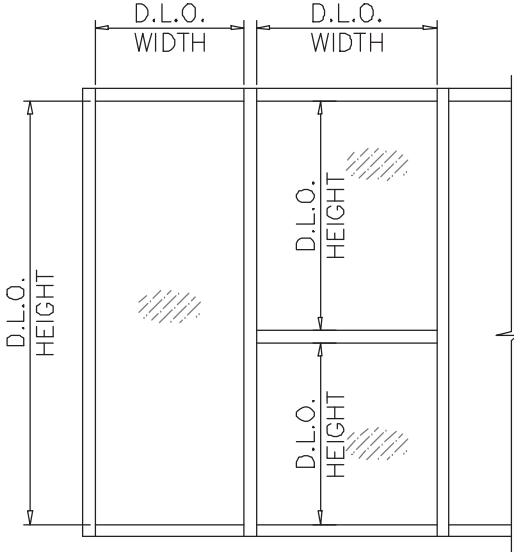
DRAWING No:

2 OF 19

GLASS LOAD CAPACITY – PSF								
NOMINAL DIMS. (IN)		GLASS TYPES						
		A1	B1&C1	A,B&C	D1	F	E/E1	G/G1
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
26.75”	67”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
44.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
50.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
56.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
62.75”		94.0	–	80.0	85.0	–	–	–
68.75”		94.0	–	80.0	85.0	–	–	–
72.75”		94.0	–	80.0	85.0	–	–	–
74.75”		94.0	–	80.0	85.0	–	–	–
26.75”	73”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
44.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
50.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	–
56.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
62.75”		94.0	–	80.0	85.0	–	–	–
68.75”		94.0	–	80.0	85.0	–	–	–
72”		94.0	–	80.0	85.0	–	–	–
26.75”	79”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
44.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
50.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
56.75”		94.0	–	80.0	85.0	–	–	–
62.75”		94.0	–	80.0	85.0	–	–	–
68.75”		94.0	–	–	–	–	–	–
26.75”	85”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
44.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
50.75”		94.0	–	80.0	85.0	–	–	–
56.75”		94.0	–	80.0	85.0	–	–	–
62.75”		94.0	–	–	–	–	–	–
63.5”		94.0	–	–	–	–	–	–
26.75”	92”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
39.25”		94.0	–	80.0	85.0	65.0	+70/–85	+65/–75
45.25”		94.0	–	80.0	85.0	65.0	+70/–85	–
50.75”		94.0	–	80.0	85.0	–	–	–
56.75”		94.0	–	80.0	85.0	–	–	–
60”		94.0	–	–	–	–	–	–

GLASS LOAD CAPACITY – PSF								
NOMINAL DIMS. (IN)		GLASS TYPES						
		A1	B1&C1	A,B&C	D1	F	E/E1	G/G1
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
26.75”	97”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
43”		94.0	–	80.0	85.0	–	+70/–85	–
44.75”		94.0	–	80.0	85.0	–	–	–
50.75”		94.0	–	80.0	85.0	–	–	–
56”		94.0	–	–	–	–	–	–
26.75”	103”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
44.75”		94.0	–	80.0	85.0	–	–	–
50.75”		94.0	–	80.0	85.0	–	–	–
53”		94.0	–	–	–	–	–	–
26.75”	109”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
38.75”		94.0	–	80.0	85.0	–	+70/–85	–
44.75”		94.0	–	80.0	85.0	–	–	–
50”		94.0	–	–	–	–	–	–
26.75”	115”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	–	80.0	85.0	65.0	+70/–85	+65/–75
36”		94.0	–	80.0	85.0	–	+70/–85	–
38.75”		94.0	–	80.0	85.0	–	–	–
44.75”		94.0	–	80.0	85.0	–	–	–
47.5”		94.0	–	–	–	–	–	–
26.75”	121”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
38.75”		94.0	–	80.0	85.0	–	–	–
44.5”		94.0	–	–	–	–	–	–
26.75”	127”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	–	80.0	85.0	65.0	+70/–85	–
38.75”		94.0	–	80.0	85.0	–	–	–
26.75”	133”	94.0	75.0	80.0	85.0	65.0	+70/–85	+65/–75
32.75”		94.0	–	80.0	85.0	–	–	–
38.75”		94.0	–	80.0	85.0	–	–	–
26.75”	139”	94.0	75.0	80.0	85.0	65.0	+70/–85	–
32.75”		94.0	–	80.0	85.0	–	–	–
38.75”		94.0	–	–	–	–	–	–

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



STEP 2: GLASS LOAD TABLES



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REV#	DATE/REMARKS
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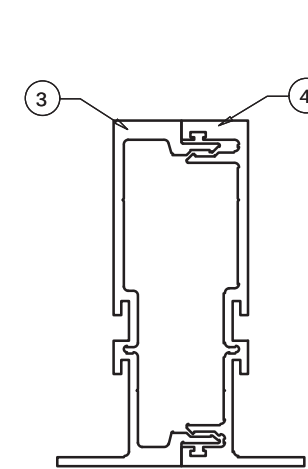


September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

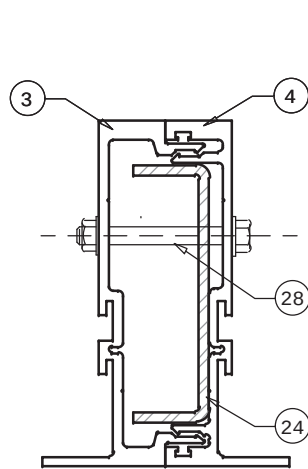
FL #20877

DRAWN: James	DRAWING No: 3 OF 19
DATE: 08/26/2022	
DWG: AD16–15	



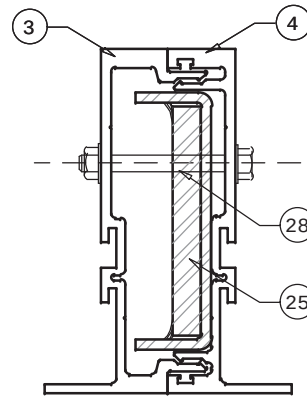
MULLION 'M1'

	Ix IN^4	Sx IN^3
ALUM	6.8747	2.8384



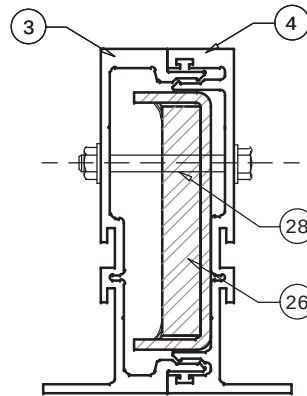
MULLION 'M2'

	Ix IN^4	Sx IN^3
WITH STEEL REINF.		
ALUM	6.8747	2.8384
(24)	2.6758	(IN ALUM.)
TOTAL	9.5505	-



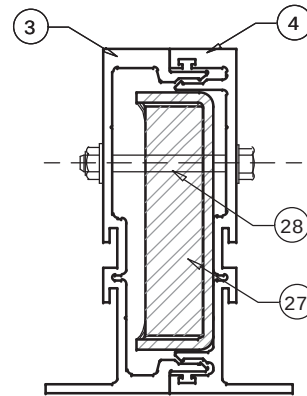
MULLION 'M3'

	Ix IN^4	Sx IN^3
WITH STEEL REINF.		
ALUM	6.8747	2.8384
(25) STL.	2.6758	(IN ALUM.)
	2.4469	(IN ALUM.)
TOTAL	11.9974	-



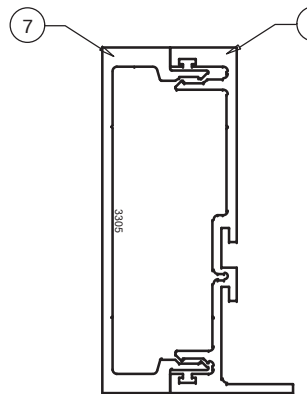
MULLION 'M4'

	Ix IN^4	Sx IN^3
WITH STEEL REINF.		
ALUM	6.8747	2.8384
(26) STL.	2.6758	(IN ALUM.)
	3.2625	(IN ALUM.)
TOTAL	12.8130	-



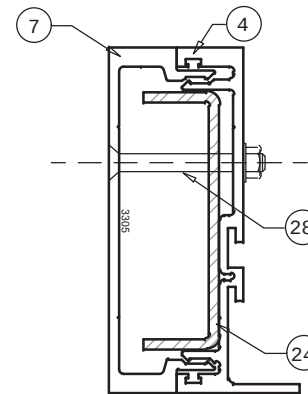
MULLION 'M5'

	Ix IN^4	Sx IN^3
WITH STEEL REINF.		
ALUM	6.8747	2.8384
(27) STL.	2.6758	(IN ALUM.)
	4.8938	(IN ALUM.)
TOTAL	14.4443	-



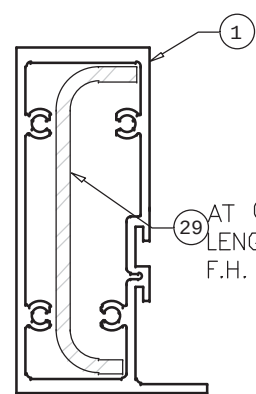
DJM 'M1'

	Ix IN^4	Sx IN^3
ALUM	6.5248	2.7278



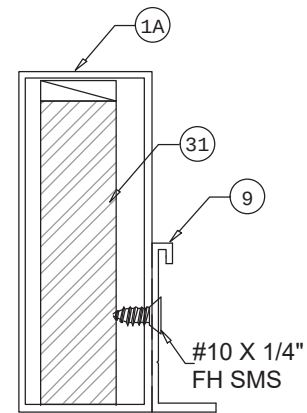
DJM 'M2'

	Ix IN^4	Sx IN^3
WITH STEEL REINF.		
ALUM	6.5248	2.7278
(24)	2.6758	(IN ALUM.)
TOTAL	9.2006	(IN ALUM.)



DJM 'M2'

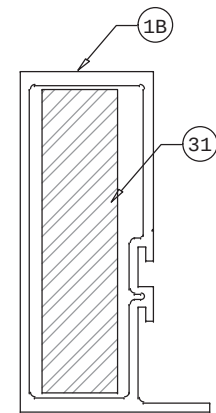
	Ix IN^4	Sx IN^3
STEEL REINFORCED		
ALUM	5.3453	2.2678
(29)	5.4659	(IN ALUM.)
TOTAL	10.8112	(IN ALUM.)



DJM 'M5'

	Ix IN^4	Sx IN^3
STEEL REINFORCED		
ALUMINUM	3.6934	1.6415
(31) STEEL	15.4667	(IN ALUM.)
TOTAL	19.1601	(IN ALUM.)

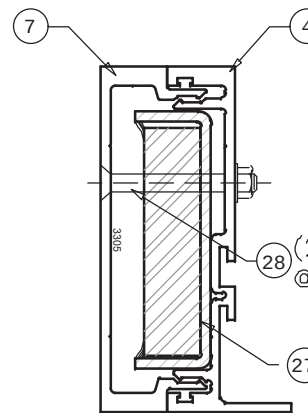
#10220 W/ (1) ST351X REINFORCEMENT



DJM 'M5'

	Ix IN^4	Sx IN^3
STEEL REINFORCED		
ALUMINUM	4.9365	2.0813
(31) STEEL	15.4667	(IN ALUM.)
TOTAL	20.4032	(IN ALUM.)

#3306 W/ (1) ST351X REINFORCEMENT



DJM 'M5'

	Ix IN^4	Sx IN^3
STEEL REINFORCED		
ALUM	6.5248	2.7278
(27) STL.	2.6758	(IN ALUM.)
	4.8938	(IN ALUM.)
TOTAL	14.0944	(IN ALUM.)

DOOR MULLION W/ STL REINF.

MULLION TYPES FOR CHART ON SHEET 4.1 & 5

STEP 3: MULLION LOAD CAPACITIES



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p. 800-432-8132

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
MCY@MCYEngineering.com

STAMP:



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

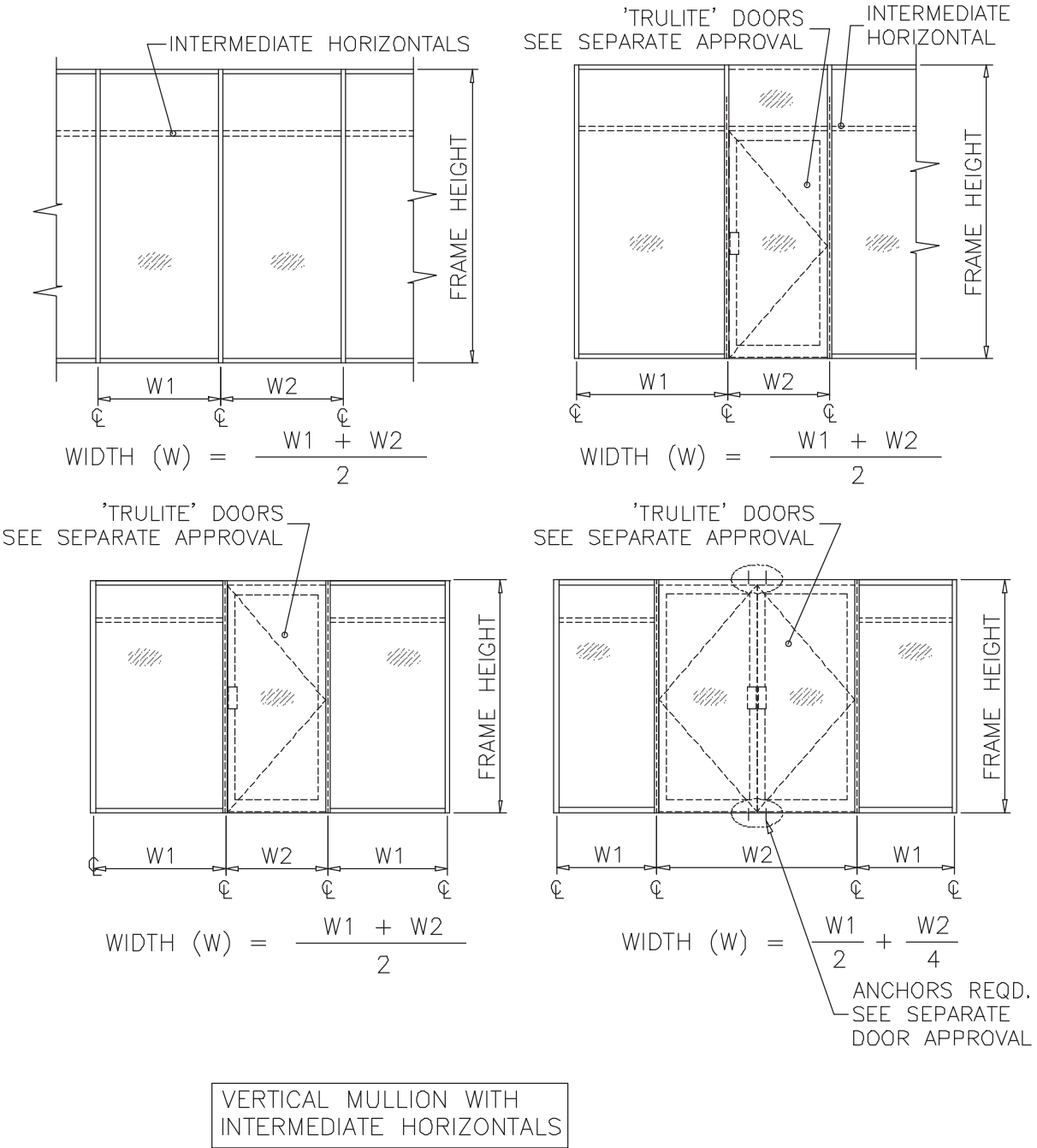
FL #20877

DRAWN: James
DATE: 08/26/2022
DWG: AD16-15

DRAWING No:
4 OF 19

MULLION LOAD CAPACITY WITH INTERMEDIATE HORIZONTAL – PSF						
NOMINAL DIMS. (IN)		MULLIO N 'M1'	MULLIO N 'M2'	MULLIO N 'M3'	MULLIO N 'M4'	MULLIO N 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	72"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"		85.0	94.0	94.0	94.0	94.0
72"	78"	85.0	94.0	94.0	94.0	94.0
30"		85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"	84"	85.0	94.0	94.0	94.0	94.0
72"		85.0	94.0	94.0	94.0	94.0
30"		85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"	90"	85.0	94.0	94.0	94.0	94.0
66"		85.0	94.0	94.0	94.0	94.0
72"		85.0	94.0	94.0	94.0	94.0
30"		85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"	96"	85.0	94.0	94.0	94.0	94.0
60"		79.6	85.0	94.0	94.0	94.0
66"		–	75.0	75.0	75.0	75.0
72"		–	70.2	75.0	75.0	75.0
30"		85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"	102"	82.9	94.0	94.0	94.0	94.0
54"		73.7	83.0	94.0	94.0	94.0
60"		–	74.6	75.0	75.0	75.0
66"		–	67.8	75.0	75.0	75.0
72"		–	62.2	72.1	72.1	72.1
30"		85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"	108"	79.8	94.0	94.0	94.0	94.0
48"		69.9	83.2	94.0	94.0	94.0
54"		–	73.9	92.9	94.0	94.0
60"		–	66.5	75.0	75.0	75.0
66"		–	60.5	74.2	74.2	74.2
30"		85.0	94.0	94.0	94.0	94.0
36"		79.2	94.0	94.0	94.0	94.0
42"	114"	67.9	85.3	94.0	94.0	94.0
48"		59.4	74.7	93.8	94.0	94.0
54"		–	66.4	75.0	75.0	75.0
60"		–	59.7	75.0	75.0	75.0
66"		–	54.3	68.2	70.3	70.3

MULLION LOAD CAPACITY WITH INTERMEDIATE HORIZONTAL – PSF						
NOMINAL DIMS. (IN)		MULLIO N 'M1'	MULLIO N 'M2'	MULLIO N 'M3'	MULLIO N 'M4'	MULLIO N 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	120"	81.5	94.0	94.0	94.0	94.0
36"		67.9	89.8	94.0	94.0	94.0
42"		58.2	77.0	94.0	94.0	94.0
48"		50.9	67.4	84.6	90.4	90.4
54"	126"	–	59.9	75.0	75.0	75.0
60"		–	53.9	67.7	72.3	73.5
30"		70.4	94.0	94.0	94.0	94.0
36"		58.7	81.5	94.0	94.0	94.0
42"	132"	50.3	69.8	87.7	93.7	94.0
48"		–	61.1	76.8	82.0	92.4
54"		–	54.3	68.2	72.9	75.0
60"		–	48.9	61.4	65.6	68.8
30"	138"	61.2	85.0	94.0	94.0	94.0
36"		51.0	70.9	89.0	94.0	94.0
42"		43.7	60.7	76.3	81.5	91.9
48"		–	53.0	67.0	71.0	74.7
54"	144"	–	47.0	59.0	63.0	66.4
30"		53.6	74.4	93.5	94.0	94.0
36"		44.6	62.0	77.9	83.2	93.8
42"		–	53.2	66.8	71.3	80.4
48"		–	47.0	58.0	62.0	65.4
54"		–	41.0	52.0	55.0	58.0
30"		47.2	65.5	82.3	87.9	94.0
36"		39.3	54.6	68.6	73.2	82.6
42"		–	46.8	58.8	62.8	70.8
48"		–	41.0	51.0	55.0	58.0



SEE SHEET 4 FOR MULLION TYPES

STEP 3: MULLION LOAD CAPACITIES



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September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWNJames

DRAWING No:

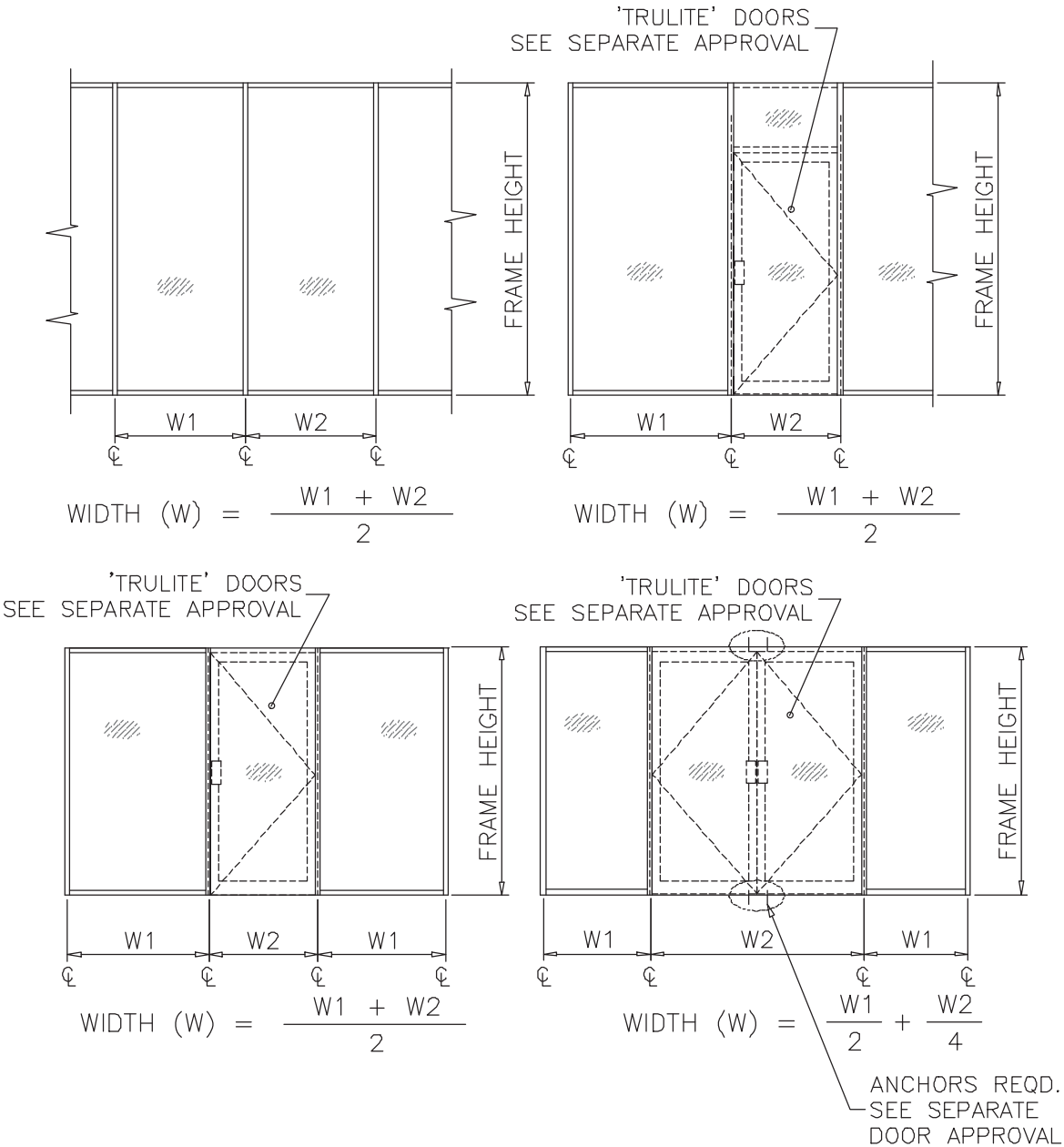
DATE:08/26/2022

4.1 OF 19

DWG: AD16-15

MULLION LOAD CAPACITY WITHOUT INTERMEDIATE HORIZONTAL – PSF						
NOMINAL DIMS. (IN)		MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30"	72"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"		85.0	94.0	94.0	94.0	94.0
72"		85.0	94.0	94.0	94.0	94.0
30"	78"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"		85.0	94.0	94.0	94.0	94.0
72"		85.0	94.0	94.0	94.0	94.0
30"	84"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"		85.0	94.0	94.0	94.0	94.0
72"		—	94.0	94.0	94.0	94.0
30"	90"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		85.0	94.0	94.0	94.0	94.0
66"		—	94.0	94.0	94.0	94.0
72"		—	75.0	75.0	75.0	75.0
30"	96"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		85.0	94.0	94.0	94.0	94.0
54"		85.0	94.0	94.0	94.0	94.0
60"		79.6	94.0	94.0	94.0	94.0
66"		—	75.0	75.0	75.0	75.0
72"		—	75.0	75.0	75.0	75.0
30"	102"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		85.0	94.0	94.0	94.0	94.0
48"		82.9	94.0	94.0	94.0	94.0
54"		73.7	92.3	94.0	94.0	94.0
60"		—	75.0	75.0	75.0	75.0
66"		—	75.0	75.0	75.0	75.0
72"		—	75.0	75.0	75.0	75.0
30"	108"	85.0	94.0	94.0	94.0	94.0
36"		85.0	94.0	94.0	94.0	94.0
42"		79.8	94.0	94.0	94.0	94.0
48"		69.9	89.9	94.0	94.0	94.0
54"		—	81.4	94.0	94.0	94.0
60"		—	75.0	75.0	75.0	75.0
66"		—	70.1	75.0	75.0	75.0
72"		85.0	94.0	94.0	94.0	94.0
30"	114"	79.2	94.0	94.0	94.0	94.0
42"		67.9	90.2	94.0	94.0	94.0
48"		59.4	80.1	94.0	94.0	94.0
54"		—	72.8	75.0	75.0	75.0
60"		—	66.7	75.0	75.0	75.0
66"		—	62.0	75.0	75.0	75.0

MULLION LOAD CAPACITY WITHOUT INTERMEDIATE HORIZONTAL – PSF							
NOMINAL DIMS. (IN)		MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'	
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	
30"	120"	81.5	94.0	94.0	94.0	94.0	
36"		67.9	93.5	94.0	94.0	94.0	
42"		58.2	81.0	94.0	94.0	94.0	
48"		50.9	71.8	90.3	94.0	94.0	
54"		–	66.7	75.0	75.0	75.0	
60"		–	62.0	74.7	74.7	74.7	
30"	126"	70.4	94.0	94.0	94.0	94.0	
36"		58.7	84.2	94.0	94.0	94.0	
42"		50.3	73.1	91.8	94.0	94.0	
48"		–	64.8	81.4	87.0	92.4	
54"		–	58.5	73.6	75.0	75.0	
60"		–	53.6	67.4	70.0	70.0	
30"	132"	61.2	86.8	94.0	94.0	94.0	
36"		51.0	73.0	91.7	94.0	94.0	
42"		43.7	63.3	79.5	84.9	91.9	
48"		–	56.1	70.5	75.0	75.0	
54"		–	50.6	63.5	67.9	69.4	
60"		53.6	75.9	94.0	94.0	94.0	
36"	138"	44.6	63.8	80.1	85.5	94.0	
42"		–	55.2	69.3	74.0	83.5	
48"		–	48.9	61.4	65.5	70.3	
54"		–	44.0	55.3	59.0	63.2	
30"		144"	47.2	66.7	83.7	89.4	94.0
36"			39.3	56.0	70.3	75.1	84.7
42"	–		48.4	60.8	65.0	72.8	
48"	–		42.8	53.8	57.5	64.3	



VERTICAL MULLION WITHOUT INTERMEDIATE HORIZONTALS

STEP 3: MULLION LOAD CAPACITIES

SEE SHEET 4 FOR MULLION TYPES



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September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James	DRAWING No:
DATE:08/26/2022	5 OF 19
DWG: AD16-15	

JAMB LOAD CAPACITY - PSF				
NOMINAL DIMS. (IN)		JAMB 'J1' 'J2' & 'J3'	JAMB 'J4'	JAMB 'J1R' & 'J2R'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30"	72"	85.0	85.0	94.0
36"		85.0	85.0	94.0
42"		85.0	85.0	94.0
48"		85.0	85.0	94.0
54"		85.0	85.0	94.0
60"		85.0	85.0	94.0
66"		85.0	85.0	94.0
72"		85.0	85.0	94.0
30"	78"	85.0	85.0	94.0
36"		85.0	85.0	94.0
42"		85.0	85.0	94.0
48"		85.0	85.0	94.0
54"		85.0	85.0	94.0
60"		85.0	85.0	94.0
66"		85.0	85.0	94.0
72"		85.0	85.0	94.0
30"	84"	85.0	85.0	94.0
36"		85.0	85.0	94.0
42"		85.0	85.0	94.0
48"		85.0	85.0	94.0
54"		85.0	85.0	94.0
60"		85.0	85.0	94.0
66"		85.0	85.0	94.0
72"		85.0	75	94.0
30"	90"	85.0	85.0	94.0
36"		85.0	85.0	94.0
42"		85.0	85.0	94.0
48"		85.0	85.0	94.0
54"		85.0	85.0	94.0
60"		85.0	85.0	94.0
66"		75.0	75	94.0
30"	96"	85.0	85.0	94.0
36"		85.0	85.0	94.0
42"		85.0	85.0	94.0
48"		85.0	85.0	94.0
60"		85.0	85.0	94.0

JAMB LOAD CAPACITY – PSF							
NOMINAL DIMS. (IN)		JAMB ‘J1’	JAMB‘J2’	JAMB‘J3’	JAMB‘J4’	JAMB ‘J1R’	JAMB‘J2R’
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
30”	102”	85.0	85.0	85.0	85.0	94.0	94.0
36”		85.0	85.0	85.0	85.0	94.0	94.0
42”		85.0	85.0	85.0	85.0	94.0	94.0
48”		85.0	85.0	85.0	85.0	94.0	94.0
54”		83.7	83.7	84.0	85.0	94.0	94.0
30”	108”	85.0	85.0	85.0	85.0	94.0	94.0
36”		85.0	85.0	85.0	85.0	94.0	94.0
42”		85.0	85.0	85.0	85.0	94.0	94.0
48”		84.0	84.0	84.0	75.8	94.0	94.0
54”		75.0	75.0	75.0	—	94.0	94.0
30”	114”	85.0	85.0	85.0	85.0	94.0	94.0
36”		85.0	85.0	85.0	85.0	94.0	94.0
42”		85.0	85.0	85.0	73.7	94.0	94.0
48”		75.3	75.3	75.0	64.5	94.0	94.0
30”	120”	85.0	85.0	85.0	85.0	94.0	94.0
36”		85.0	85.0	85.0	73.7	94.0	94.0
42”		77.7	77.7	78	63.2	94.0	94.0
48”		68.0	68.0	68.0	55.3	94.0	94.0
30”	126”	85.0	85.0	85.0	55.3	94.0	94.0
36”		82.2	82.2	82.0	76.0	94.0	94.0
42”		75.0	75.0	72.0	64.0	94.0	94.0
48”		75.0	68.0	63.0	55.0	94.0	87.0
30”	132”	85.0	85.0	85.0	66.0	94.0	94.0
36”		74.9	74.9	73.0	55.0	94.0	94.0
42”		64.2	64.2	63.0	47.0	94.0	85.7
30”	138”	82.3	82.3	77.0	58.0	94.0	94.0
36”		75.0	75.0	64.0	48.0	94.0	86.6
42”		71.0	60.0	55.0	—	82.3	74.2
30”	144”	75.6	75.0	68.0	51.0	94.0	90.7
36”		75.0	61.1	56.0	43.0	84.1	75.6
42”		64.0	52.0	48.0	—	72.1	64.8

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90.0*

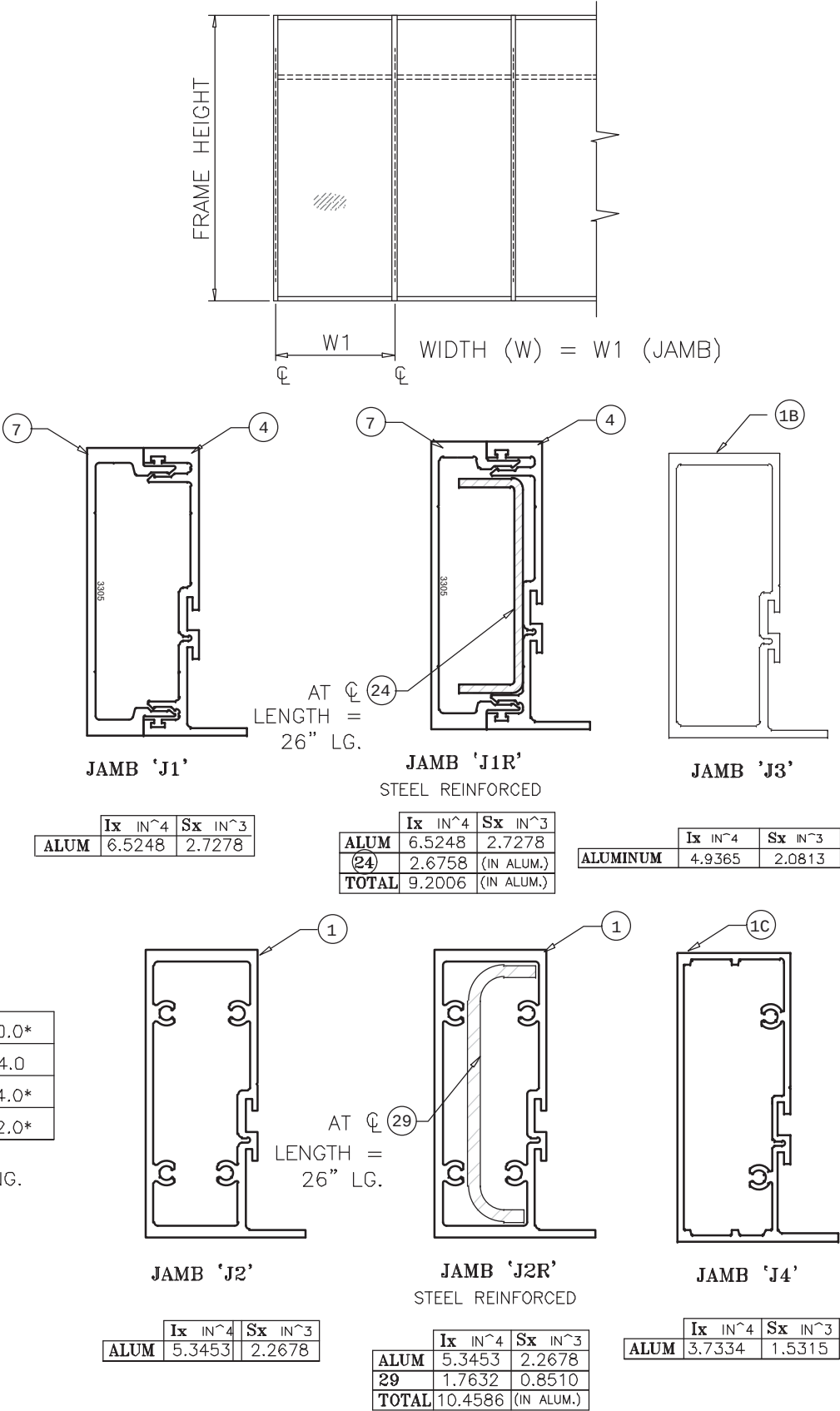
94.0

94.0*

82.0*

* DESIGN LOAD FOR JAMB TYPE J2R WITH 60"LG STEEL CHANNEL REINFORCING.

FOR ANCHORED JAMB OPTION
SEE SHEET 1 FOR SPACING.



JAMB WITH OR WITHOUT
INTERMEDIATE HORIZONTALS

STEP 3: JAMB LOAD CAPACITIES



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12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117

Email: www.MCYEngineering.com
MCY@MCYEngineering.com

STAMP:



September. 6th, 2022

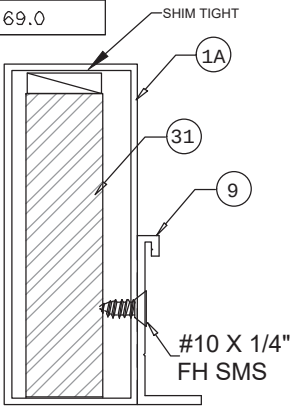
FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James
DATE: 08/26/2022
DWG: AD16-15

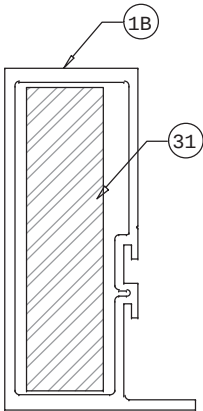
DRAWING No:
6 OF 19

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72"	30"	84"	108"	75.0
	36"			75.0
	42"			75.0
	48"			75.0
	54"			75.0
	60"			75.0
84"	30"			75.0
	36"			75.0
	42"			75.0
	48"			74.0
	54"			71.0
	60"			67.0
96"	30"			75.0
	36"			75.0
	42"			71.0
	48"			68.0
72"	30"	84"	114"	75.0
	36"			75.0
	42"			75.0
	48"			75.0
	54"			74.0
	60"			70.0
84"	30"			75.0
	36"			75.0
	42"			75.0
	48"			71.0
	54"			68.0
	60"			69.0



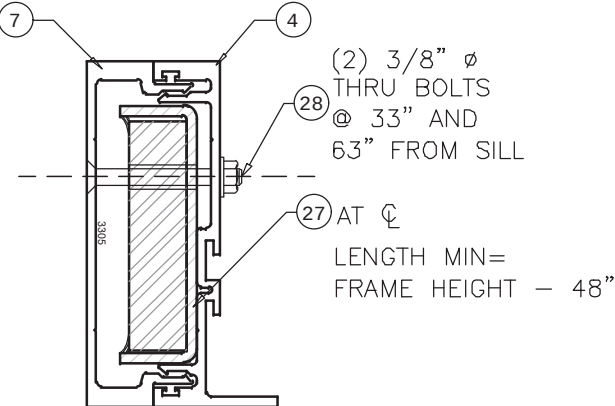
#10220 W/ (1) ST351X REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	3.6934	1.6415
31 STEEL	15.4667	(IN ALUM.)
TOTAL	19.1601	(IN ALUM.)



#3306 W/ (1) ST351X REINFORCEMENT

	Ix IN^4	Sx IN^3
ALUMINUM	4.9365	2.0813
31 STEEL	15.4667	(IN ALUM.)
TOTAL	20.4032	(IN ALUM.)



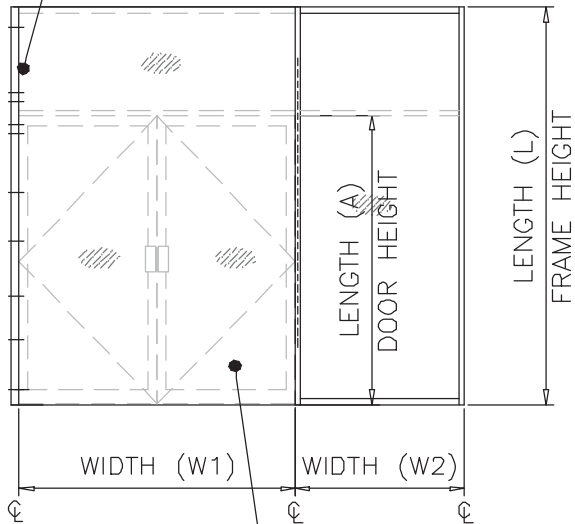
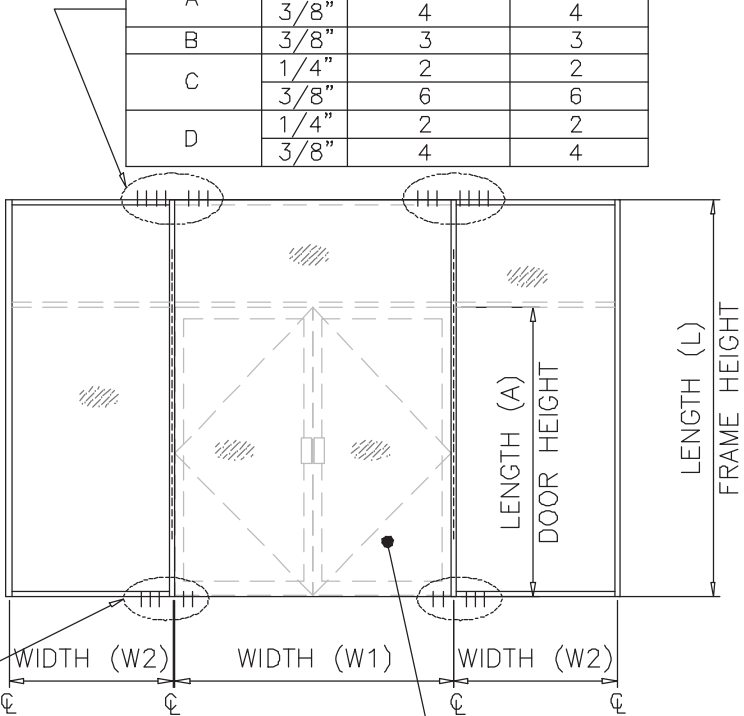
DOOR MULLION W/ STL REINF.

	Ix IN^4	Sx IN^3
ALUM	6.5248	2.7278
27 STL	2.6758	(IN ALUM.)
	4.8938	(IN ALUM.)
TOTAL	14.0944	(IN ALUM.)

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72"	24"	84"	132"	75.0
	30"			75.0
	36"			72.0
	42"			68.0
	48"			64.0
	60"			67.0
84"	24"			72.0
	30"			68.0
	36"			64.0
96"	30"			65.0
72"	24"	84"	138"	72.0
	30"			68.0
	36"			64.0
	42"			61.0
84"	24"			64.0
	30"			61.0
	36"			61.0
72"	36"			57.0
84"	30"			57.0

ANCHORS TYPE	SHIM SPACE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL	
		AT FIX. LITE	AT DOOR
AA	3/8"	4	2
A	1/4"	3	2
B	3/8"	4	2

ANCHORS TYPE	SHIM SPACE	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD	
		AT FIX. LITE	AT DOOR
AA	3/8"	4	4
A	1/4"	3	3
B	3/8"	4	4
C	1/4"	2	2
D	3/8"	6	6
	1/4"	2	2
	3/8"	4	4



STEP 3: DOOR JAMB MULLION LOAD CAPACITIES



http://www.trulite.com
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p. 800-432-8132

PRODUCT:
Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:
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GLAZING CONSULTANT
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September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James	DRAWING No:
DATE: 08/26/2022	7 OF 19
DWG: AD16-15	

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	90”	114”	75.0
	36”			75.0
	42”			75.0
	48”			75.0
	54”			73.0
	60”			69.0
84”	30”			75.0
	36”			75.0
	42”			73.0
	48”			70.0
	54”			67.0
96”	24”			75.0
	30”			74.0
	36”			71.0
	42”			67.0
72”	30”	90”	120”	75.0
	36”			75.0
	42”			75.0
	48”			74.0
	54”			70.0
	60”			66.0
84”	30”			75.0
	36”			75.0
	42”			71.0
	48”			68.0
96”	24”			75.0
	30”			72.0
	36”			68.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	90”	126”	75.0
	36”			75.0
	42”			75.0
	48”			71.0
	54”			67.0
84”	30”			75.0
	36”			72.0
	42”			68.0
96”	24”			73.0
	30”			69.0
72”	30”	90”	132”	75.0
	36”			74.0
	42”			70.0
	48”			67.0
84”	24”			75.0
	30”			71.0
	36”			67.0
96”	42”			68.0
72”	24”	90”	138”	75.0
	30”			70.0
	36”			66.0
	42”			63.0
84”	24”			67.0
	30”			63.0
96”	30”			67.0
	36”			63.0
	42”			59.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	96”	120”	75.0
	36”			75.0
	42”			75.0
	48”			72.0
	54”			69.0
	60”			65.0
84”	30”			75.0
	36”			73.0
	42”			69.0
	48”			66.0
96”	24”			74.0
	30”			70.0
	36”			67.0
72”	30”	96”	126”	75.0
	36”			75.0
	42”			74.0
	48”			70.0
	54”			66.0
84”	30”			75.0
	36”			71.0
	42”			67.0
96”	30”			72.0
	36”			68.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	96”	132”	75.0
	36”			75.0
	42”			71.0
	48”			67.0
	54”			75.0
	60”			72.0
84”	24”			68.0
	30”			72.0
	36”			68.0
96”	24”			69.0
72”	24”	96”	138”	75.0
	30”			73.0
	36”			69.0
	42”			65.0
84”	30”			70.0
	36”			66.0
96”	24”			62.0

STEP 3: DOOR JAMB MULLION
LOAD CAPACITIES



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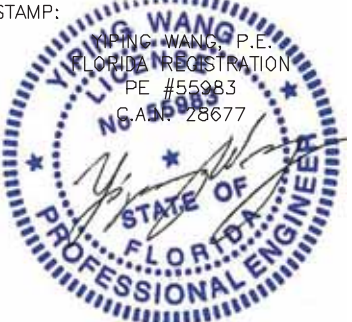
PRODUCT:
Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

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STAMP:

September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James	DRAWING No: 8 OF 19
DATE:08/26/2022	
DWG: AD16–15	

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	102”	126”	75.0
	36”			75.0
	42”			73.0
	48”			69.0
	54”			65.0
84”	24”			75.0
	30”			73.0
	36”			69.0
	42”			66.0
96”	24”			70.0
	42”			67.0
72”	30”	102”	132”	75.0
	36”			74.0
	42”			70.0
	48”			66.0
84”	24”			75.0
	30”			71.0
	36”			67.0
				68.0
96”	24”			68.0
72”	30”	102”	138”	75.0
	36”			75.0
	48”			72.0
	42”			67.0
84”	24”			73.0
	30”			69.0
72”	24”	102”	144”	73.0
	30”			68.0
	36”			64.0
84”	24”			65.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	30”	108”	132”	75.0
	36”			73.0
	42”			69.0
	48”			65.0
84”	24”			74.0
	30”			70.0
	36”			66.0
96”	24”			67.0
72”	30”	108”	138”	75.0
	36”			71.0
	42”			67.0
86”	30”			72.0
	36”			68.0
72”	24”	108”	144”	75.0
	30”			71.0
	36”			66.0
84”	24”			68.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	24”	114”	138”	75.0
	30”			74.0
	36”			70.0
	42”			66.0
84”	24”			71.0
	30”			67.0
72”	24”	114”	144”	75.0
	30”			72.0
	36”			68.0
84”	24”			69.0

DOOR MULLION LOAD CAPACITY – PSF AT DOUBLE DOOR WITH TRANSOM				
NOMINAL DIMS. (IN)				WITH REINFORCING
WIDTH (W1)	WIDTH (W2)	LENGTH (A)	LENGTH (L)	EXT.(+) INT.(–)
72”	24”	120”	144”	75.0
	30”			71.0
	36”			67.0
84”	24”			67.0



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REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

M

C

Y

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
MCY@MCYEngineering.com

STAMP:

YOUNG WANG
PENG WANG, P.E.
FLORIDA REGISTRATION
PE #55983
GAS# 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

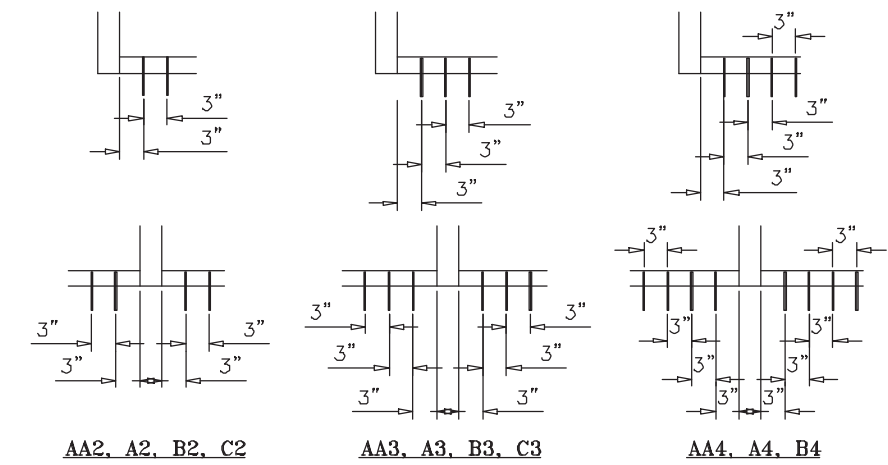
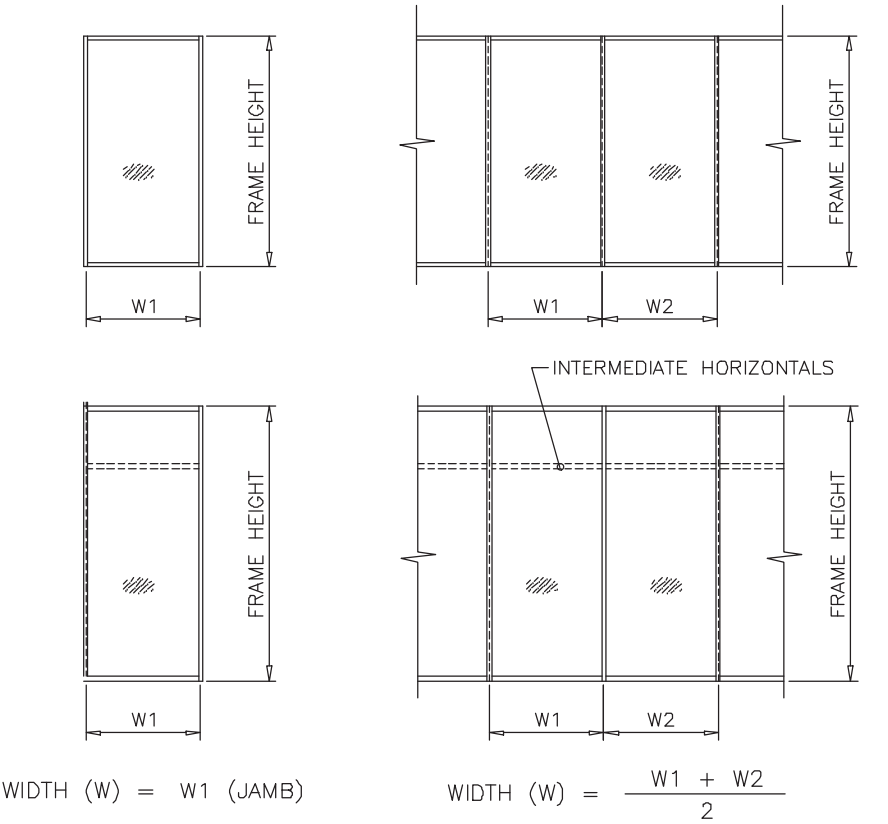
September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWNJames	DRAWING No: 9 OF 19
DATE:08/26/2022	
DWG: AD16–15	

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)																	
NOMINAL DIMS. (IN)		3/8” SHIM															
		ANCHORS TYPE 'AA'			ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'			ANCHORS TYPE 'D'			
WIDTH (W)	FRAME HEIGHT	'AA2'	'AA3'	'AA4'	'A2'	'A3'	'A4'	'B2'	'B3'	'B4'	'C2'	'C3'	'C4'	'D2'	'D3'	'D4'	
30”	66”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	89.6	94.0	94.0	94.0	94.0	94.0	
36”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	74.7	94.0	94.0	94.0	94.0	
42”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	64.0	94.0	94.0	94.0	94.0	
48”		90.5	94.0	94.0	90.5	94.0	94.0	94.0	94.0	94.0	94.0	56.0	84.0	94.0	90.5	94.0	94.0
54”		80.5	94.0	94.0	80.5	94.0	94.0	94.0	94.0	94.0	94.0	49.8	74.7	94.0	80.5	94.0	94.0
60”		72.4	94.0	94.0	72.4	94.0	94.0	94.0	94.0	94.0	94.0	44.8	67.2	89.6	72.4	94.0	94.0
66”		65.9	94.0	94.0	65.9	94.0	94.0	88.3	94.0	94.0	40.7	61.1	81.5	65.9	94.0	94.0	94.0
72”		60.4	90.5	94.0	60.4	90.5	94.0	81.0	94.0	94.0	37.3	56.0	74.7	60.4	90.5	94.0	94.0
30”	72”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	82.1	94.0	94.0	94.0	94.0	94.0	
36”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	68.4	94.0	94.0	94.0	94.0	94.0	
42”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	58.7	88.0	94.0	94.0	94.0	94.0	
48”		83.0	94.0	94.0	83.0	94.0	94.0	94.0	94.0	94.0	51.3	77.0	94.0	83.0	94.0	94.0	
54”		73.8	94.0	94.0	73.8	94.0	94.0	94.0	94.0	94.0	45.6	68.4	91.3	73.8	94.0	94.0	
60”		66.4	94.0	94.0	66.4	94.0	94.0	89.1	94.0	94.0	41.1	61.6	82.1	66.4	94.0	94.0	
66”		60.4	90.5	94.0	60.4	90.5	94.0	81.0	94.0	94.0	37.3	56.0	74.7	60.4	90.5	94.0	94.0
72”		55.3	83.0	94.0	55.3	83.0	94.0	74.2	94.0	94.0	34.2	51.3	68.4	55.3	83.0	94.0	94.0
30”	78”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	75.8	94.0	94.0	94.0	94.0	94.0	
36”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	63.2	94.0	94.0	94.0	94.0	94.0	
42”		87.6	94.0	94.0	87.6	94.0	94.0	94.0	94.0	94.0	54.2	81.2	94.0	87.6	94.0	94.0	
48”		76.6	94.0	94.0	76.6	94.0	94.0	94.0	94.0	94.0	47.4	71.1	94.0	76.6	94.0	94.0	
54”		68.1	94.0	94.0	68.1	94.0	94.0	91.4	94.0	94.0	42.1	63.2	84.2	68.1	94.0	94.0	
60”		61.3	91.9	94.0	61.3	91.9	94.0	82.2	94.0	94.0	37.9	56.9	75.8	61.3	91.9	94.0	
66”		55.7	83.6	94.0	55.7	83.6	94.0	74.7	94.0	94.0	34.5	51.7	68.9	55.7	83.6	94.0	94.0
72”		51.1	76.6	94.0	51.1	76.6	94.0	68.5	94.0	94.0	31.6	47.4	63.2	51.1	76.6	94.0	94.0
30”	84”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	70.4	94.0	94.0	94.0	94.0	94.0	
36”		94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	58.7	88.0	94.0	94.0	94.0	94.0	
42”		81.3	94.0	94.0	81.3	94.0	94.0	94.0	94.0	94.0	50.3	75.4	94.0	81.3	94.0	94.0	
48”		71.1	94.0	94.0	71.1	94.0	94.0	94.0	94.0	94.0	44.0	66.0	88.0	71.1	94.0	94.0	
54”		63.2	94.0	94.0	63.2	94.0	94.0	84.8	94.0	94.0	39.1	58.7	78.2	63.2	94.0	94.0	
60”		56.9	85.4	94.0	56.9	85.4	94.0	76.3	94.0	94.0	35.2	52.8	70.4	56.9	85.4	94.0	94.0
66”		51.7	77.6	94.0	51.7	77.6	94.0	69.4	94.0	94.0	32.0	48.0	64.0	51.7	77.6	94.0	94.0
72”		47.4	71.1	94.0	47.4	71.1	94.0	63.6	94.0	94.0	29.3	44.0	58.7	47.4	71.1	94.0	94.0
30”	90”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	65.7	94.0	94.0	94.0	94.0	94.0	
36”		88.5	94.0	94.0	88.5	94.0	94.0	94.0	94.0	94.0	54.8	82.1	94.0	88.5	94.0	94.0	
42”		75.9	94.0	94.0	75.9	94.0	94.0	94.0	94.0	94.0	46.9	70.4	93.9	75.9	94.0	94.0	
48”		66.4	94.0	94.0	66.4	94.0	94.0	89.1	94.0	94.0	41.1	61.6	82.1	66.4	94.0	94.0	
54”		59.0	88.5	94.0	59.0	88.5	94.0	79.2	94.0	94.0	36.5	54.8	73.0	59.0	88.5	94.0	94.0
60”		53.1	79.7	94.0	53.1	79.7	94.0	71.3	94.0	94.0	32.9	49.3	65.7	53.1	79.7	94.0	94.0
66”		48.3	72.4	94.0	48.3	72.4	94.0	64.8	94.0	94.0	29.9	44.8	59.7	48.3	72.4	94.0	94.0
72”		44.3	66.4	88.5	44.3	66.4	88.5	59.4	89.1	94.0	27.4	41.1	54.8	44.3	66.4	88.5	94.0
30”	96”	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	61.6	92.4	94.0	94.0	94.0	94.0	
36”		83.0	94.0	94.0	83.0	94.0	94.0	94.0	94.0	94.0	51.3	77.0	94.0	83.0	94.0	94.0	
42”		71.1	94.0	94.0	71.1	94.0	94.0	94.0	94.0	94.0	44.0	66.0	88.0	71.1	94.0	94.0	
48”		62.3	93.4	94.0	62.3	93.4	94.0	83.5	94.0	94.0	38.5	57.8	77.0	62.3	93.4	94.0	94.0
54”		55.3	83.0	94.0	55.3	83.0	94.0	74.2	94.0	94.0	34.2	51.3	68.4	55.3	83.0	94.0	94.0
60”		49.8	74.7	94.0	49.8	74.7	94.0	66.8	94.0	94.0	30.8	46.2	61.6	49.8	74.7	94.0	94.0
66”		45.3	67.9	90.5	45.3	67.9	90.5	60.7	91.1	94.0	28.0	42.0	56.0	45.3	67.9	90.5	94.0
72”		41.5	62.3	83.0	41.5	62.3	83.0	55.7	83.5	94.0	25.7	38.5	51.3	41.5	62.3	83.0	94.0
CHART TO BE CONTINUED ON NEXT SHEET																	



ANCHORS TYPES: SEE SHEET 11 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
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION OR JAMB
D2 = (2) ANCHORS TYPE 'D' 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
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION OR JAMB
D3 = (3) ANCHORS TYPE 'D' 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
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION OR JAMB
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION OR JAMB
D4 = (4) ANCHORS TYPE 'D' AT EACH SIDE OF MULLION OR JAMB

STEP 4: ANCHOR LOAD CAPACITIES



http://www.trulite.com

403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)

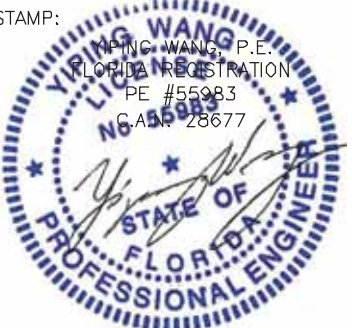


REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
MCY@MCYEngineering.com



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James	DRAWING No:
DATE:08/26/2022	10 OF 19
DWG: AD16-15	

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)																
NOMINAL DIMS. (IN)		3/8” SHIM														
		ANCHORS TYPE 'AA'			ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'			ANCHORS TYPE 'D'		
WIDTH (W)	FRAME HEIGHT	'AA2'	'AA3'	'AA4'	'A2'	'A3'	'A4'	'B2'	'B3'	'B4'	'C2'	'C3'	'C4'	'D2'	'D3'	'D4'
30”	102”	93.7	94.0	94.0	93.7	94.0	94.0	94.0	94.0	94.0	58.0	87.0	94.0	93.7	94.0	94.0
36”		78.1	94.0	94.0	78.1	94.0	94.0	94.0	94.0	94.0	48.3	72.5	94.0	78.1	94.0	94.0
42”		67.0	94.0	94.0	67.0	94.0	94.0	89.8	94.0	94.0	41.4	62.1	82.8	67.0	94.0	94.0
48”		58.6	87.9	94.0	58.6	87.9	94.0	78.6	94.0	94.0	36.2	54.4	72.5	58.6	87.9	94.0
54”		52.1	78.1	94.0	52.1	78.1	94.0	69.9	94.0	94.0	32.2	48.3	64.4	52.1	78.1	94.0
60”		46.9	70.3	93.7	46.9	70.3	93.7	62.9	94.0	94.0	29.0	43.5	58.0	46.9	70.3	93.7
66”		42.6	63.9	85.2	42.6	63.9	85.2	57.2	85.7	94.0	26.4	39.5	52.7	42.6	63.9	85.2
72”		39.1	58.6	78.1	39.1	58.6	78.1	52.4	78.6	94.0	24.2	36.2	48.3	39.1	58.6	78.1
30”	108”	88.5	94.0	94.0	88.5	94.0	94.0	94.0	94.0	94.0	54.8	82.1	94.0	88.5	94.0	94.0
36”		73.8	94.0	94.0	73.8	94.0	94.0	94.0	94.0	94.0	45.6	68.4	91.3	73.8	94.0	94.0
42”		63.2	94.0	94.0	63.2	94.0	94.0	84.8	94.0	94.0	39.1	58.7	78.2	63.2	94.0	94.0
48”		55.3	83.0	94.0	55.3	83.0	94.0	74.2	94.0	94.0	34.2	51.3	68.4	55.3	83.0	94.0
54”		49.2	73.8	94.0	49.2	73.8	94.0	66.0	94.0	94.0	30.4	45.6	60.8	49.2	73.8	94.0
60”		44.3	66.4	88.5	44.3	66.4	88.5	59.4	89.1	94.0	27.4	41.1	54.8	44.3	66.4	88.5
66”		40.2	60.4	80.5	40.2	60.4	80.5	54.0	81.0	94.0	24.9	37.3	49.8	40.2	60.4	80.5
30”		114”	83.9	94.0	94.0	83.9	94.0	94.0	94.0	94.0	94.0	51.9	77.8	94.0	83.9	94.0
36”	69.9		94.0	94.0	69.9	94.0	94.0	93.8	94.0	94.0	43.2	64.8	86.5	69.9	94.0	94.0
42”	59.9		89.9	94.0	59.9	89.9	94.0	80.4	94.0	94.0	37.1	55.6	74.1	59.9	89.9	94.0
48”	52.4		78.6	94.0	52.4	78.6	94.0	70.3	94.0	94.0	32.4	48.6	64.8	52.4	78.6	94.0
54”	46.6		69.9	93.2	46.6	69.9	93.2	62.5	93.8	94.0	28.8	43.2	57.6	46.6	69.9	93.2
60”	41.9		62.9	83.9	41.9	62.9	83.9	56.3	84.4	94.0	25.9	38.9	51.9	41.9	62.9	83.9
66”	38.1		57.2	76.2	38.1	57.2	76.2	51.1	76.7	94.0	23.6	35.4	47.2	38.1	57.2	76.2
30”	120”		79.7	94.0	94.0	79.7	94.0	94.0	94.0	94.0	94.0	49.3	73.9	94.0	79.7	94.0
36”		66.4	94.0	94.0	66.4	94.0	94.0	89.1	94.0	94.0	41.1	61.6	82.1	66.4	94.0	94.0
42”		56.9	85.4	94.0	56.9	85.4	94.0	76.3	94.0	94.0	35.2	52.8	70.4	56.9	85.4	94.0
48”		49.8	74.7	94.0	49.8	74.7	94.0	66.8	94.0	94.0	30.8	46.2	61.6	49.8	74.7	94.0
54”		44.3	66.4	88.5	44.3	66.4	88.5	59.4	89.1	94.0	27.4	41.1	54.8	44.3	66.4	88.5
60”		39.8	59.8	79.7	39.8	59.8	79.7	53.4	80.2	94.0	24.6	37.0	49.3	39.8	59.8	79.7
30”		126”	75.9	94.0	94.0	75.9	94.0	94.0	94.0	94.0	94.0	46.9	70.4	93.9	75.9	94.0
36”	63.2		94.0	94.0	63.2	94.0	94.0	84.8	94.0	94.0	39.1	58.7	78.2	63.2	94.0	94.0
42”	54.2		81.3	94.0	54.2	81.3	94.0	72.7	94.0	94.0	33.5	50.3	67.0	54.2	81.3	94.0
48”	47.4		71.1	94.0	47.4	71.1	94.0	63.6	94.0	94.0	29.3	44.0	58.7	47.4	71.1	94.0
54”	42.2		63.2	84.3	42.2	63.2	84.3	56.6	84.8	94.0	26.1	39.1	52.1	42.2	63.2	84.3
60”	37.9		56.9	75.9	37.9	56.9	75.9	50.9	76.3	94.0	23.5	35.2	46.9	37.9	56.9	75.9
30”	132”		72.4	94.0	94.0	72.4	94.0	94.0	94.0	94.0	94.0	44.8	67.2	89.6	72.4	94.0
36”		60.4	90.5	94.0	60.4	90.5	94.0	81.0	94.0	94.0	37.3	56.0	74.7	60.4	90.5	94.0
42”		51.7	77.6	94.0	51.7	77.6	94.0	69.4	94.0	94.0	32.0	48.0	64.0	51.7	77.6	94.0
48”		45.3	67.9	90.5	45.3	67.9	90.5	60.7	91.1	94.0	28.0	42.0	56.0	45.3	67.9	90.5
54”		40.2	60.4	80.5	40.2	60.4	80.5	54.0	81.0	94.0	24.9	37.3	49.8	40.2	60.4	80.5
30”		138”	69.3	94.0	94.0	69.3	94.0	94.0	92.9	94.0	94.0	42.9	64.3	85.7	69.3	94.0
36”	57.7		86.6	94.0	57.7	86.6	94.0	77.4	94.0	94.0	35.7	53.6	71.4	57.7	86.6	94.0
42”	49.5		74.2	94.0	49.5	74.2	94.0	66.4	94.0	94.0	30.6	45.9	61.2	49.5	74.2	94.0
48”	43.3		65.0	86.6	43.3	65.0	86.6	58.1	87.1	94.0	26.8	40.2	53.6	43.3	65.0	86.6
54”	38.5		57.7	77.0	38.5	57.7	77.0	51.6	77.4	94.0	23.8	35.7	47.6	38.5	57.7	77.0
30”	144”		66.4	94.0	94.0	66.4	94.0	94.0	89.1	94.0	94.0	41.1	61.6	82.1	66.4	94.0
36”		55.3	83.0	94.0	55.3	83.0	94.0	74.2	94.0	94.0	34.2	51.3	68.4	55.3	83.0	94.0
42”		47.4	71.1	94.0	47.4	71.1	94.0	63.6	94.0	94.0	29.3	44.0	58.7	47.4	71.1	94.0
48”		41.5	62.3	83.0	41.5	62.3	83.0	55.7	83.5	94.0	25.7	38.5	51.3	41.5	62.3	83.0
SEE NEXT SHEET FOR 1/4” SHIM ANCHOR CHART																

TYPICAL ANCHORS:

SEE ELEVATIONS FOR SPACING

TYPE 'AA' 1/4” DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI) OR
1/4” ULTRAACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1–1/2” MIN. PENETRATION INTO WOOD (SG=0.55 MIN.)

THRU WOOD BUCKS INTO CONCRETE
1–1/2” MIN. EMBED INTO CONCRETE

TYPE 'A' 1/4” DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
DIRECTLY INTO CONCRETE OR HOLLOW BLOCK
1–3/8” MIN. EMBED INTO CONCRETE
1–1/4” MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)

TYPE 'B' 1/4” DIA. ULTRAACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR HOLLOW/GROUT FILLED BLOCK
1–1/2” MIN. EMBED INTO CONCRETE.
1–1/4” MIN. EMBED INTO HOLLOW BLOCK OR (JAMB ONLY)
1–3/4” MIN. EMBED INTO GROUT FILLED BLOCK

TYPE 'C' #14 SMS (GRADE 2 CRS)
(1/8” THK. MIN.) INTO METAL STRUCTURE. (6063–T5 MIN.)

TYPE 'D' #14 TEKS SELF–DRILLING SCREWS (GRADE 5 CRS)
INTO APPROVED MULLIONS
(1/8” THK. MIN.) INTO METAL STRUCTURE. (6063–T5 MIN.)

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

TYPICAL EDGE DISTANCE:

INTO CONCRETE AND MASONRY = 2–1/2” MIN.
INTO WOOD STRUCTURE = 1” MIN.
INTO METAL STRUCTURE = 3/4” MIN.

CONCRETE f’c = 3000 PSI MIN. (NORMAL WEIGHT, UNCRACKED CONCRETE)
C–90 HOLLOW/FILLED BLOCK (NORMAL WEIGHT)
f’m = 2000 PSI MIN., NORMAL STRENGTH CMU
WOOD SG=0.55 MIN.

SEALANTS:

FRAME CORNERS SEALED WITH DOW CORNING DOWSIL1199 OR EQUAL COMPATIBLE.

STEP 4: ANCHOR LOAD CAPACITIES



http://www.trulite.com

403 WESTPARK COURT, SUITE 201
PEACHTREE CITY, GA 30269
p. 800-432-8132

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027
P: 305-271-0117
Email: www.MCYEngineering.com
MCY@MCYEngineering.com

STAMP:



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN James	DRAWING No:
DATE:08/26/2022	11 OF 19
DWG: AD16–15	

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)							
NOMINAL DIMS. (IN)		1/4” SHIM					
		ANCHORS TYPE 'A'			ANCHORS TYPE 'C'		ANCHORS TYPE 'D'
WIDTH (W)	FRAME HEIGHT	'A2'	'A3'	'A4'	'C2'	'C3'	'D2'
30”	66”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		94.0	94.0	94.0	94.0	94.0	94.0
54”		94.0	94.0	94.0	94.0	94.0	94.0
60”		94.0	94.0	94.0	94.0	94.0	94.0
66”		89.4	94.0	94.0	94.0	94.0	94.0
72”		81.9	94.0	94.0	94.0	94.0	94.0
30”	72”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		94.0	94.0	94.0	94.0	94.0	94.0
54”		94.0	94.0	94.0	94.0	94.0	94.0
60”		90.1	94.0	94.0	94.0	94.0	94.0
66”		81.9	94.0	94.0	94.0	94.0	94.0
72”		75.1	94.0	94.0	94.0	94.0	94.0
30”	78”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		94.0	94.0	94.0	94.0	94.0	94.0
54”		92.4	94.0	94.0	94.0	94.0	91.4
60”		83.2	94.0	94.0	94.0	94.0	94.0
66”		75.6	94.0	94.0	94.0	94.0	94.0
72”		69.3	94.0	94.0	94.0	94.0	94.0
30”	84”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		94.0	94.0	94.0	94.0	94.0	94.0
54”		85.8	94.0	94.0	94.0	94.0	94.0
60”		77.3	94.0	94.0	94.0	94.0	94.0
66”		70.2	94.0	94.0	94.0	94.0	94.0
72”		64.4	94.0	94.0	88.8	94.0	94.0
30”	90”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		90.1	94.0	94.0	94.0	94.0	94.0
54”		80.1	94.0	94.0	94.0	94.0	94.0
60”		72.1	94.0	94.0	94.0	94.0	94.0
66”		65.6	94.0	94.0	90.4	94.0	94.0
72”		60.1	90.1	94.0	82.8	94.0	94.0
30”	96”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		94.0	94.0	94.0	94.0	94.0	94.0
48”		84.5	94.0	94.0	94.0	94.0	94.0
54”		75.1	94.0	94.0	94.0	94.0	94.0
60”		67.6	94.0	94.0	93.2	94.0	94.0
66”		61.5	92.2	94.0	84.7	94.0	94.0
72”		56.3	84.5	94.0	77.7	94.0	94.0

ANCHOR LOAD CAPACITY – PSF EXT.(+) & INT.(–)							
NOMINAL DIMS. (IN)		1/4” SHIM					
		ANCHORS TYPE 'A'			ANCHORS TYPE 'C'		ANCHORS TYPE 'D'
WIDTH (W)	FRAME HEIGHT	'A2'	'A3'	'A4'	'C2'	'C3'	'D2'
30”	102”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		90.9	94.0	94.0	94.0	94.0	94.0
48”		79.5	94.0	94.0	94.0	94.0	94.0
54”		70.7	94.0	94.0	94.0	94.0	94.0
60”		63.6	94.0	94.0	87.7	94.0	94.0
66”		57.8	86.8	94.0	79.7	94.0	94.0
72”		53.0	79.5	94.0	73.1	94.0	94.0
30”	108”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		85.8	94.0	94.0	94.0	94.0	94.0
48”		75.1	94.0	94.0	94.0	94.0	94.0
54”		66.8	94.0	94.0	92.0	94.0	94.0
60”		60.1	90.1	94.0	82.8	94.0	94.0
66”		54.6	81.9	94.0	75.3	94.0	94.0
30”	114”	94.0	94.0	94.0	94.0	94.0	94.0
36”		94.0	94.0	94.0	94.0	94.0	94.0
42”		81.3	94.0	94.0	94.0	94.0	94.0
48”		71.2	94.0	94.0	94.0	94.0	94.0
54”		63.3	94.0	94.0	87.2	94.0	94.0
60”		56.9	94.0	94.0	78.5	94.0	91.4
66”		51.8	94.0	94.0	71.3	94.0	94.0
30”	120”	94.0	94.0	94.0	94.0	94.0	94.0
36”		90.1	94.0	94.0	94.0	94.0	94.0
42”		77.3	94.0	94.0	94.0	94.0	94.0
48”		67.6	94.0	94.0	93.2	94.0	94.0
54”		60.1	90.1	94.0	82.8	94.0	94.0
60”		54.1	81.1	94.0	74.6	94.0	94.0
30”	126”	94.0	94.0	94.0	94.0	94.0	94.0
36”		85.8	94.0	94.0	94.0	94.0	94.0
42”		73.6	94.0	94.0	94.0	94.0	94.0
48”		64.4	94.0	94.0	88.8	94.0	94.0
54”		57.2	85.8	94.0	78.9	94.0	94.0
60”		51.5	77.3	94.0	71.0	94.0	94.0
30”	132”	94.0	94.0	94.0	94.0	94.0	94.0
36”		81.9	94.0	94.0	94.0	94.0	94.0
42”		70.2	94.0	94.0	94.0	94.0	94.0
48”		61.5	92.2	94.0	84.7	94.0	94.0
54”		54.6	81.9	94.0	75.3	94.0	94.0
30”	138”	94.0	90.1	94.0	79.3	94.0	94.0
36”		78.4	94.0	94.0	94.0	94.0	94.0
42”		67.2	94.0	94.0	92.6	94.0	94.0
48”		58.8	88.2	94.0	81.0	94.0	94.0
54”		52.3	78.4	94.0	72.0	94.0	94.0
30”	144”	90.1	94.0	94.0	94.0	94.0	94.0
36”		75.1	94.0	94.0	94.0	94.0	94.0
42”		64.4	94.0	94.0	88.8	94.0	94.0
48”		56.3	84.5	94.0	77.7	94.0	94.0

SEE SHEETS 10 & 11 FOR ANCHOR TYPES
AND DESCRIPTIONS.

STEP 4: ANCHOR LOAD CAPACITIES



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PRODUCT:

Resistor

3300 ALUMINUM

STOREFRONT WALL

(LARGE AND SMALL
MISSILE IMPACT)



REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

M

C

Y

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GLAZING CONSULTANT

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Email: www.MCYEngineering.com
MCY@MCYEngineering.com

STAMP:

YIYING WANG
FLORIDA
N655983
PE #55983
GA#28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWNJames	DRAWING No: 12 OF 19
DATE:08/26/2022	
DWG: AD16–15	

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

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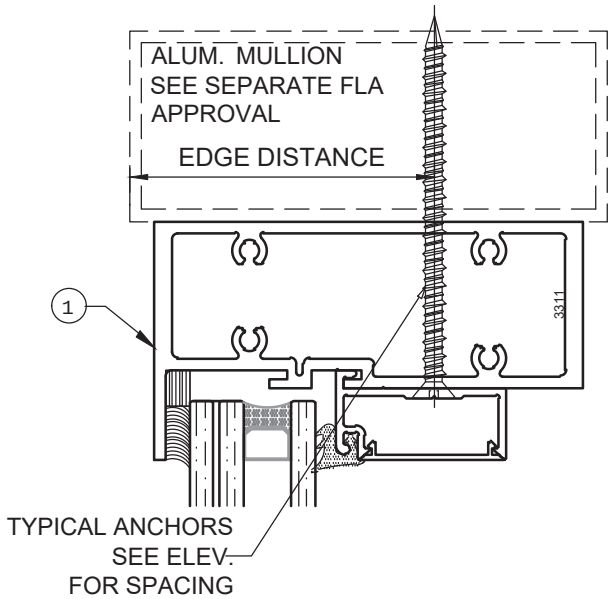
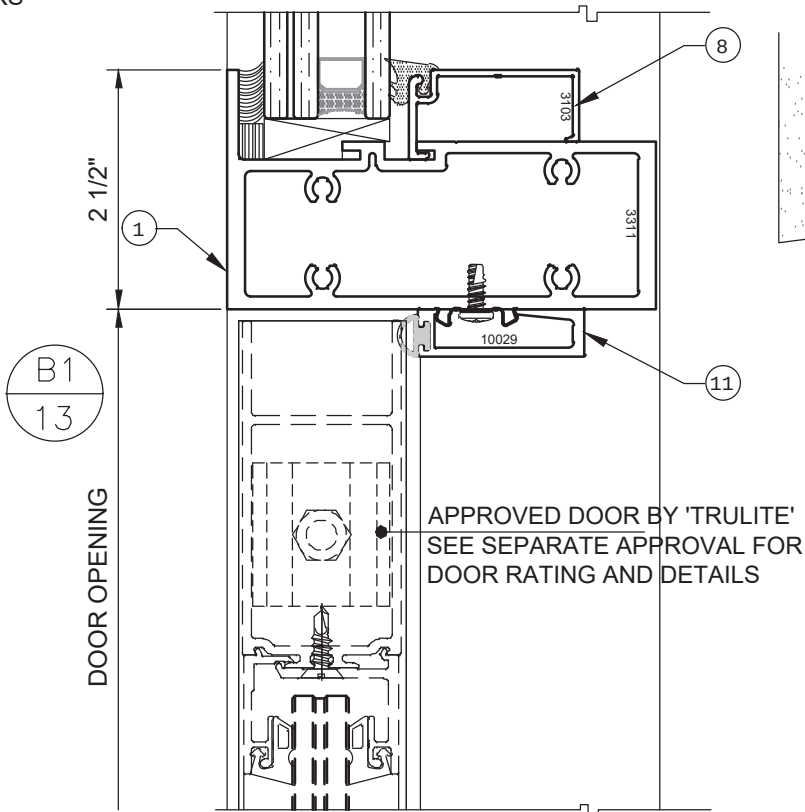
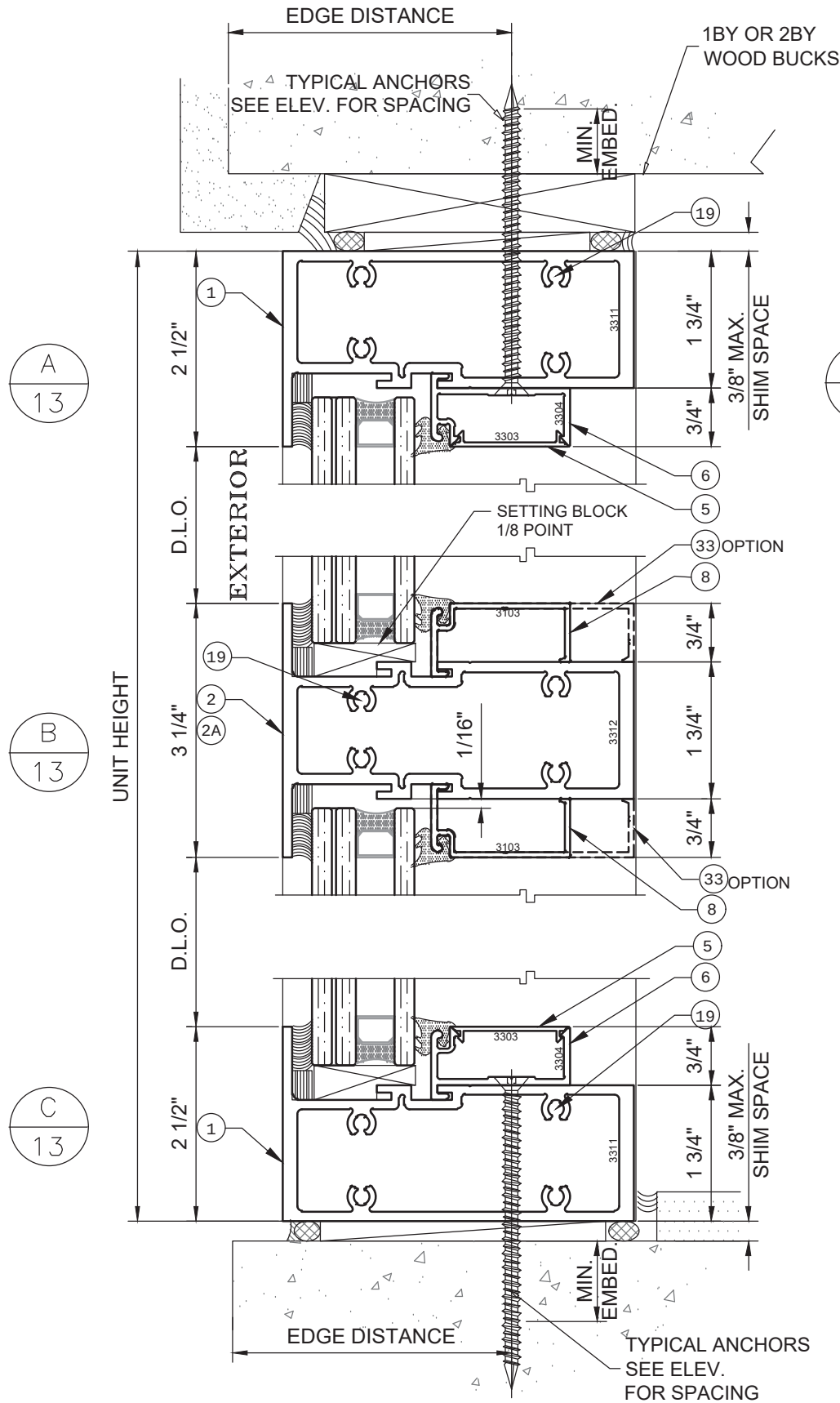


September. 6th, 2022

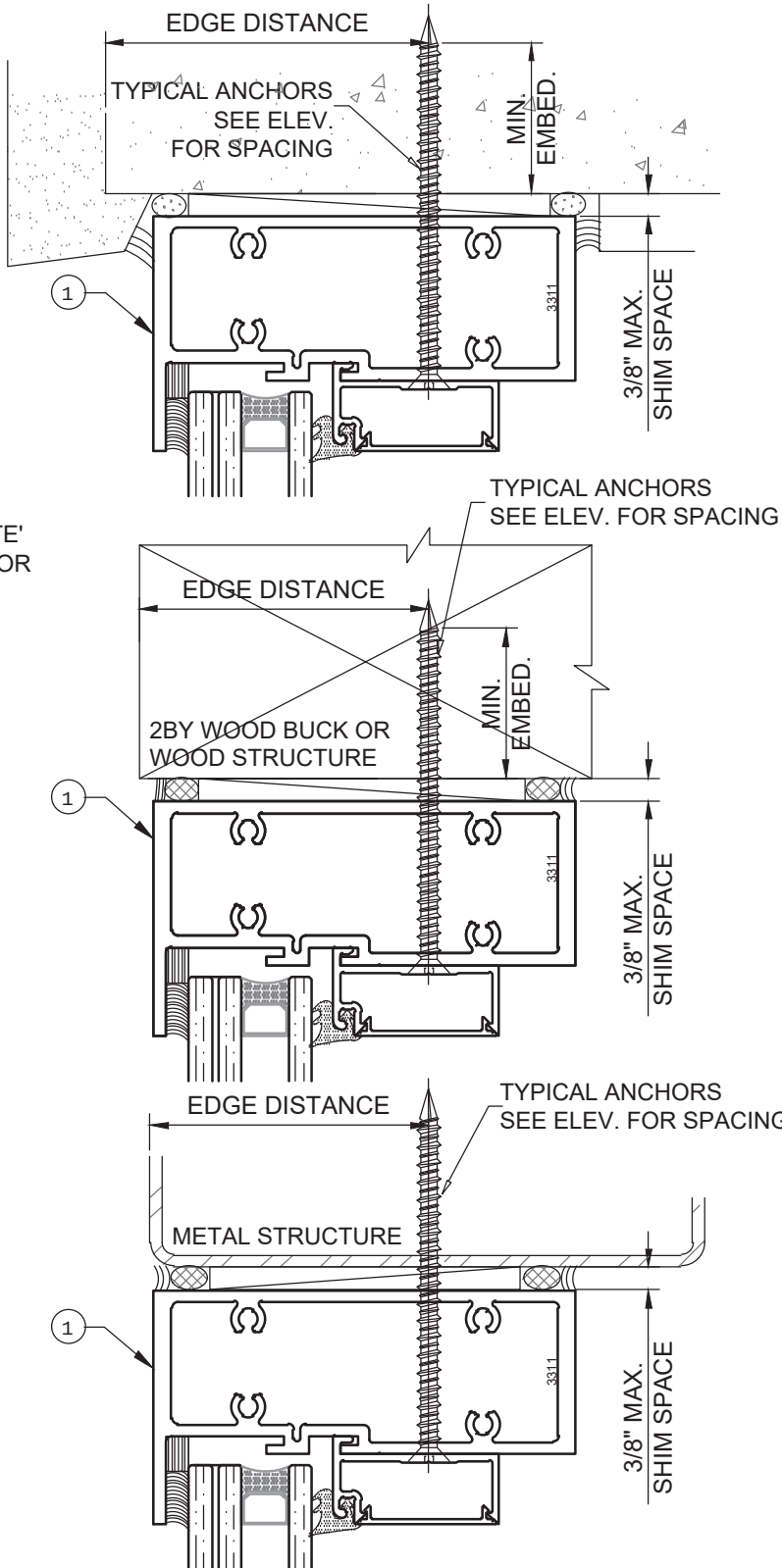
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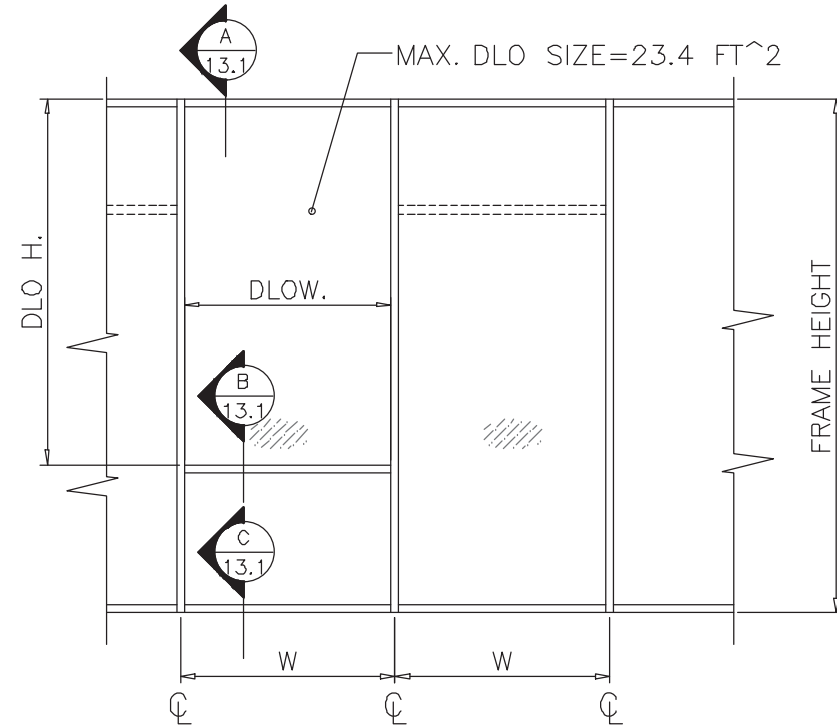
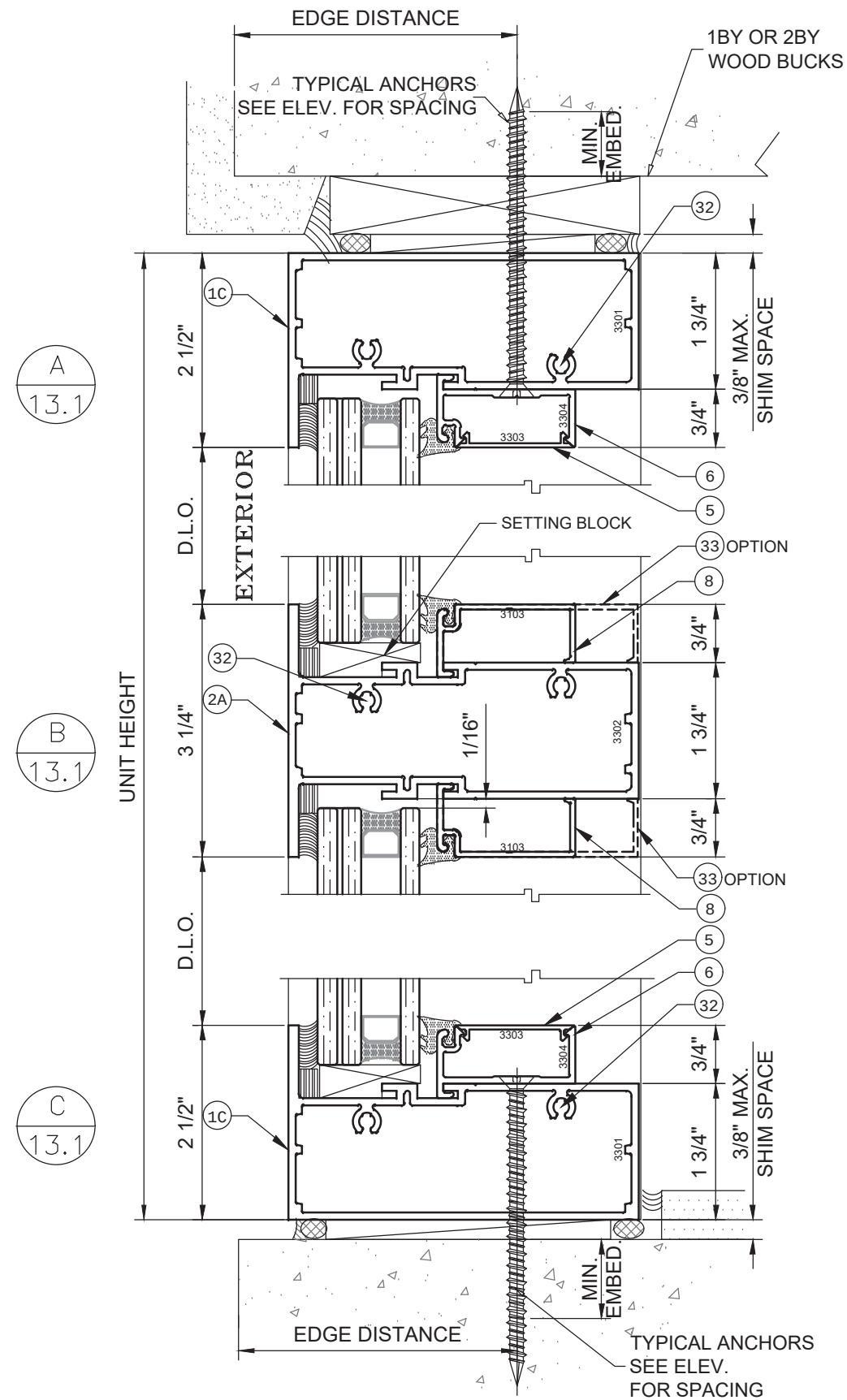
FL #20877

DRAWN: James	DRAWING No:
DATE: 08/26/2022	13 OF 19
DWG: AD16-15	



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





MAX. D.L.O. SIZE ABOVE 3302 HORIZOTAL				
DLO W.	DLO H.	DLO AREA	ALLOW. Pd (PSF)	
(IN)	(IN)	(FT ²)	EXT.(+)	INT.(-)
56 3/4"	59 3/8"	23.4	85.0	85.0

DESIGN LOAD LIMITATION FOR 3301 & 3302 HORIZOTAL			
NOMINAL DIMS.(IN)		ALLOW. Pd (PSF)	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
66"	84"	85.0	85.0
60"	96"	85.0	85.0
54"	108"	85.0	85.0
48"	120"	85.0	85.0
42"	132"	85.0	85.0
36"	144"	85.0	85.0

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

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
03	07/07/20 UPDATE TO FBC2020
04	09/23/21 UPDATE INTERLAYER
05	08/26/22 NEW GLASS SPACER

ENGINEER:

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GLAZING CONSULTANT

12871 Miramar Pkwy Ste. 301
Miramar, FL 33027

P: 305-271-0117

Email: www.MCYEngineering.com
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September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

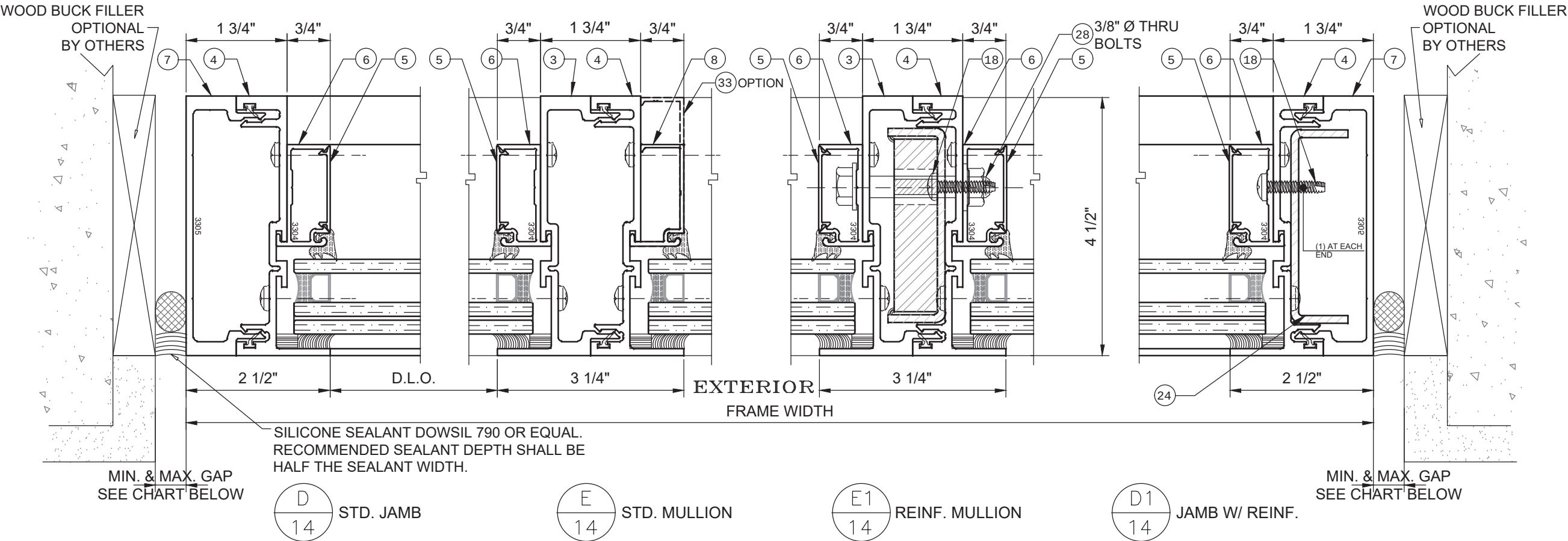
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DATE: 08/26/2022

DWG: AD16-15

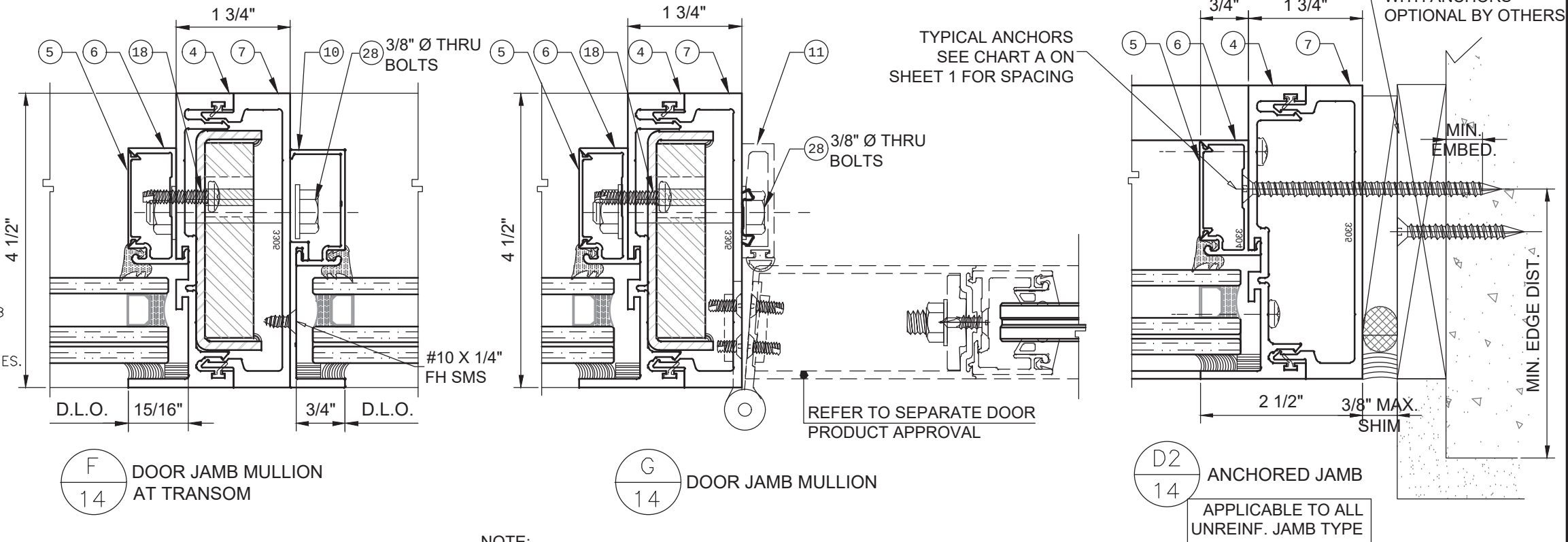
DRAWING No:

13.1 OF 19



MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
78"	1/4"	1/2"
84"	1/4"	1/2"
96"	3/8"	1/2"
108"	3/8"	1/2"
120"	3/8"	1/2"
126"	3/8"	1/2"
132"	3/8"	1/2"
138"	3/8"	1/2"
144"	3/8"	1/2"

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



NOTE:
1-5/16" GLAZING OPTION SHOWN.
REFER TO SHEET 2 FOR 9/16" GLAZING OPTION.
SILICONE SEALANT REFER TO ITEM (20) (21) (22)

PRODUCT:
Resistor
3300 ALUMINUM
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(LARGE AND SMALL
MISSILE IMPACT)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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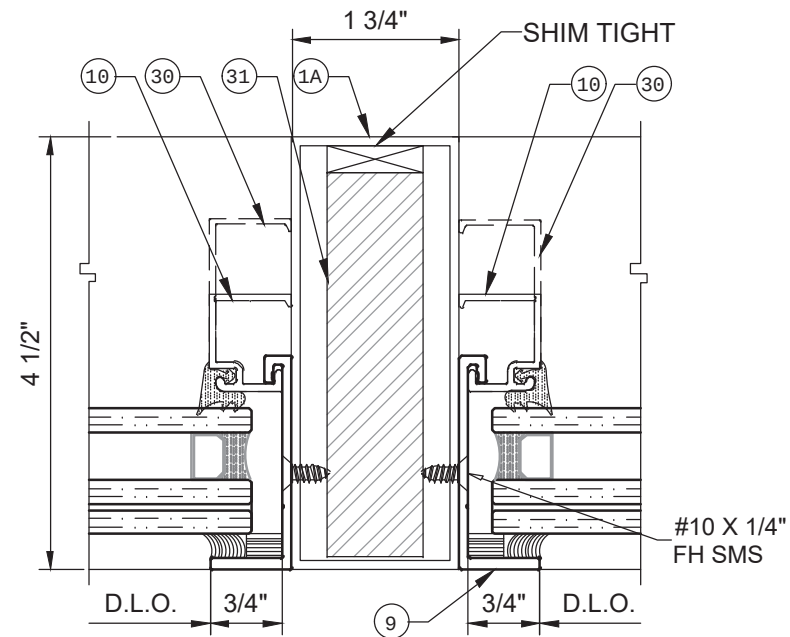
ENGINEER:
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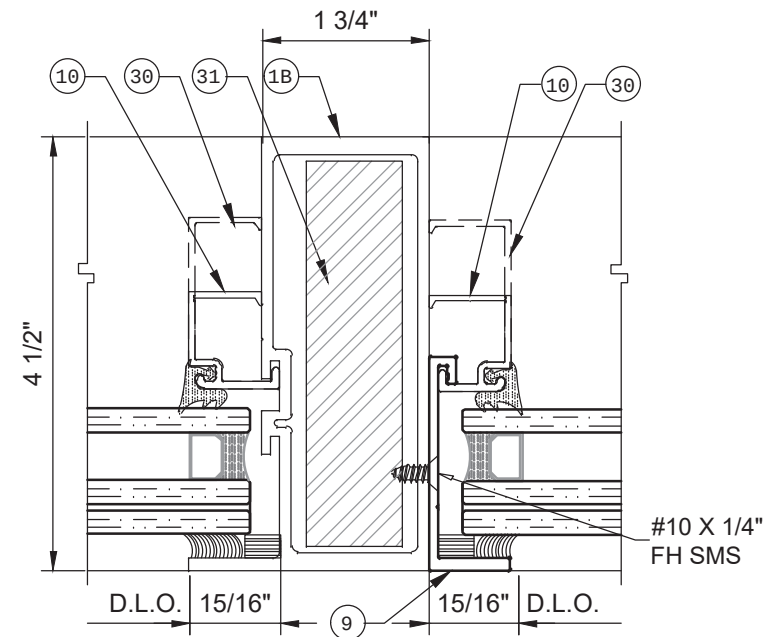
September. 6th, 2022

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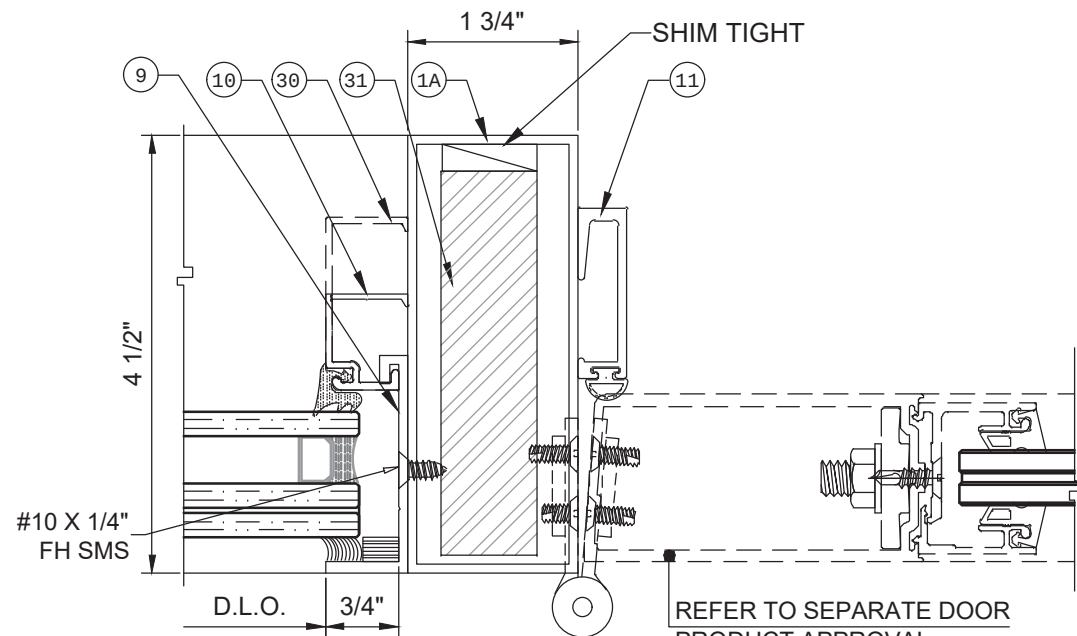
FL #20877



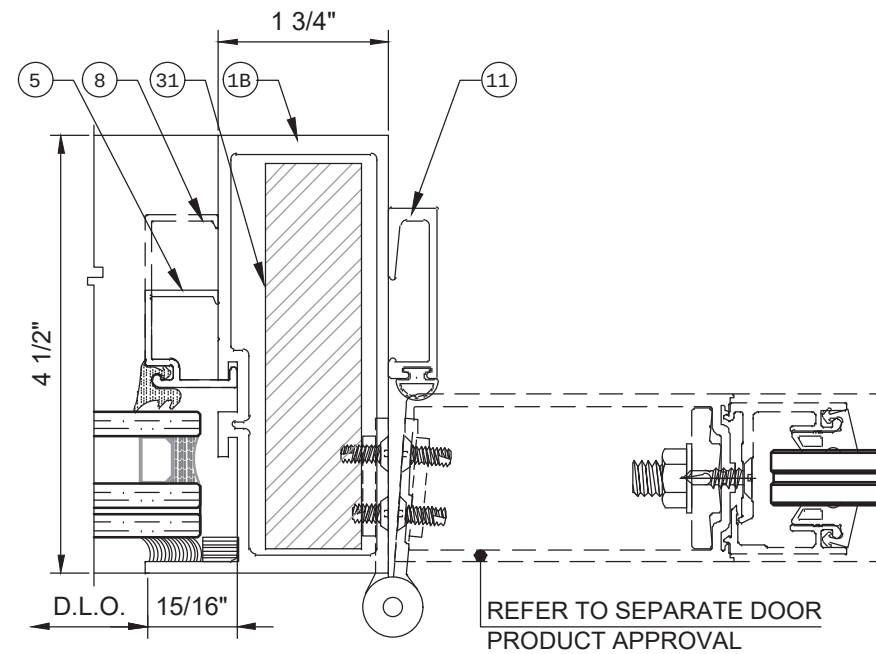
F1
15 DOOR JAMB MULLION
AT TRANSOM OPTION



F2
15 DOOR JAMB MULLION
AT TRANSOM OPTION



G1
15 DOOR JAMB MULLION
OPTION



G2
15 DOOR JAMB MULLION
OPTION

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
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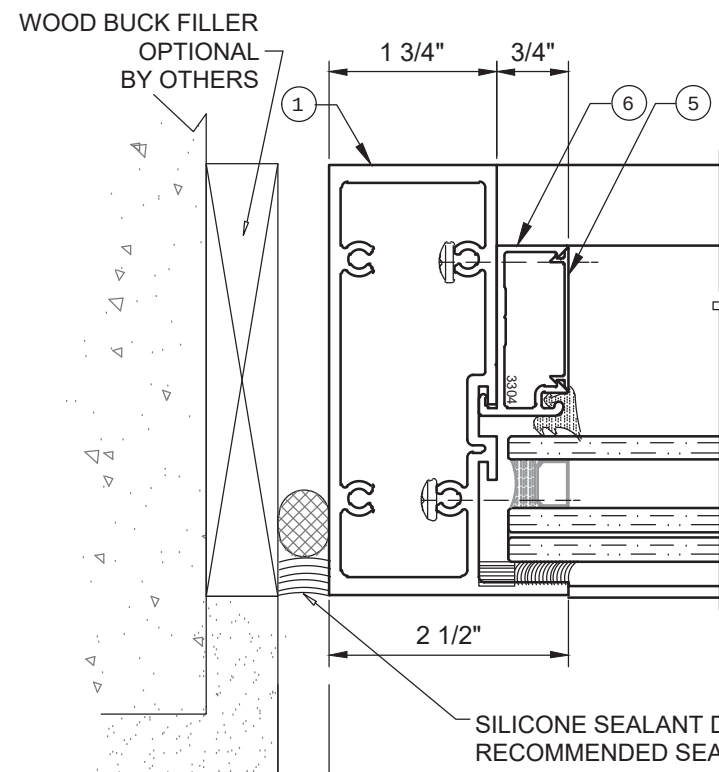


September. 6th, 2022

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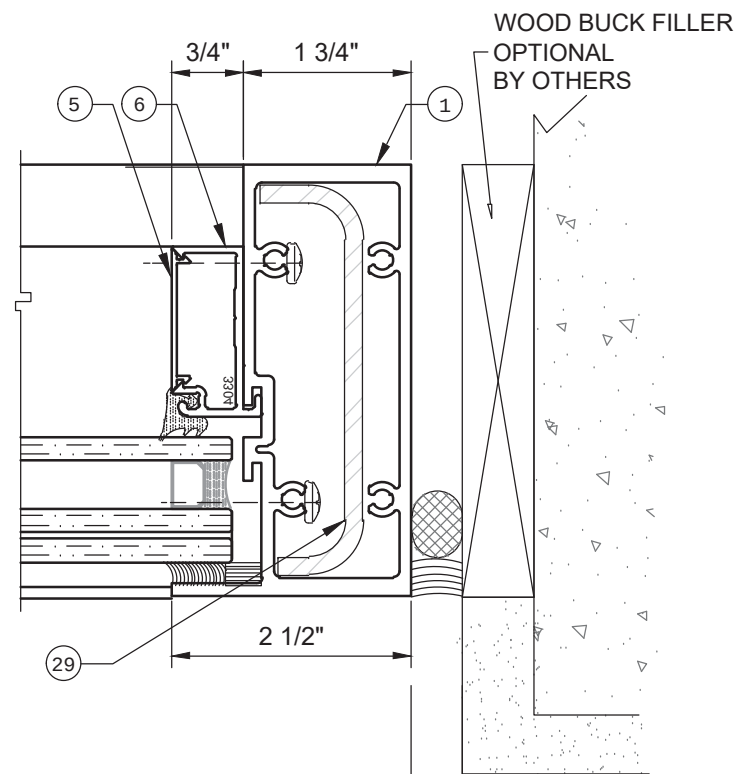
FL #20877

DRAWN: James	DRAWING No:
DATE: 08/26/2022	15 OF 19
DWG: AD16-15	



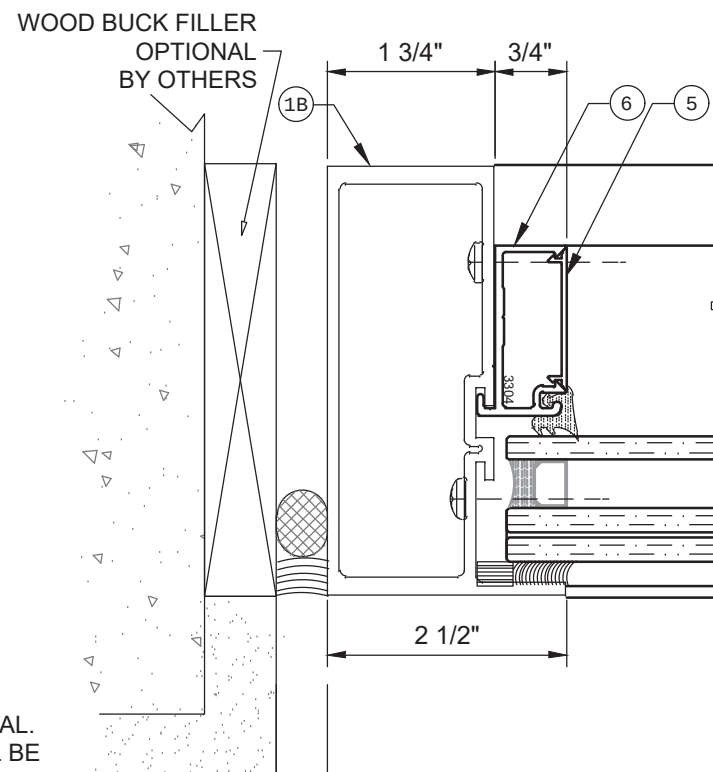
MIN. & MAX. GAP
SEE CHART ON SHEET 14

D3
16 JAMB OPTION



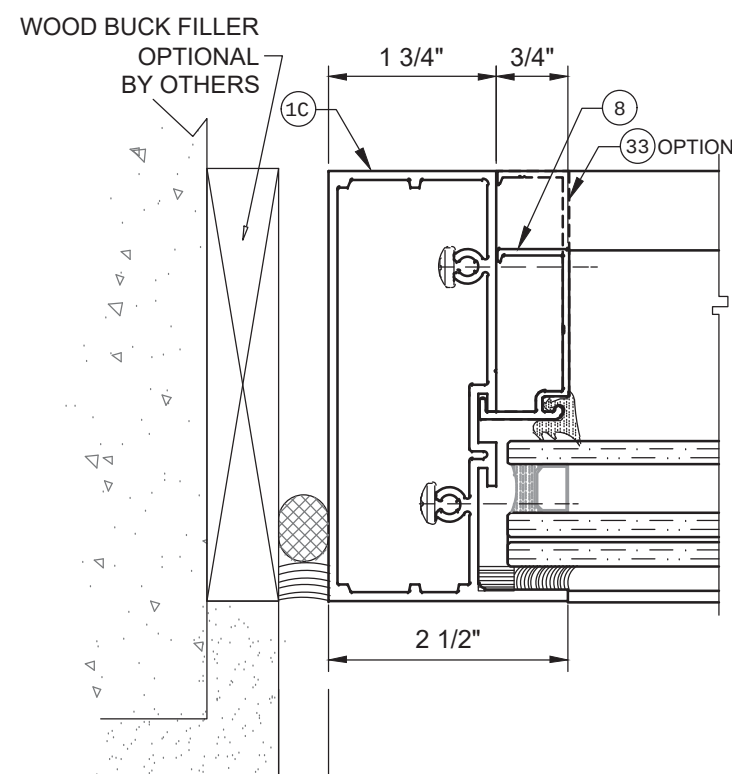
MIN. & MAX. GAP
SEE CHART SHEET 14

D5
16 JAMB W/ REINF.



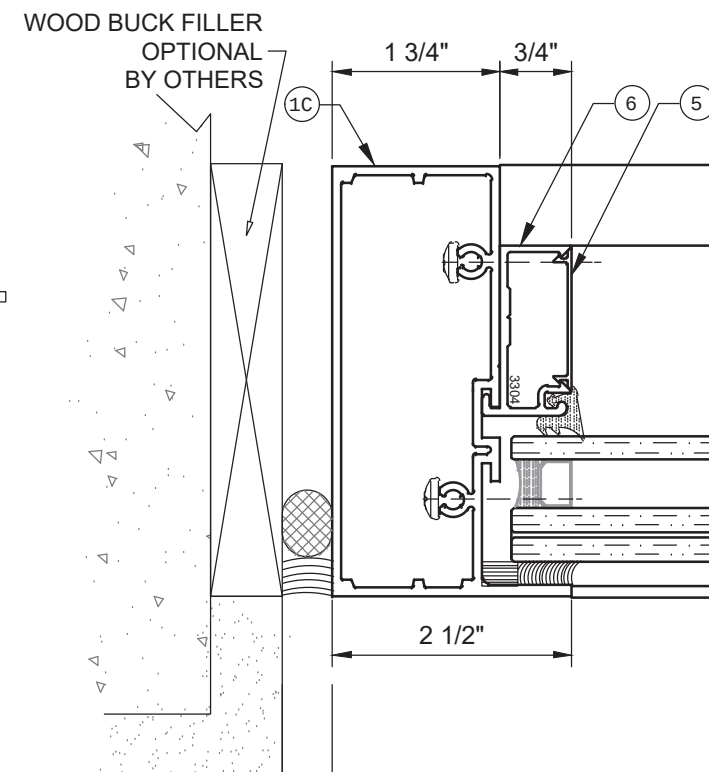
MIN. & MAX. GAP
SEE CHART ON SHEET 14

D4
16 JAMB OPTION



MIN. & MAX. GAP
SEE CHART ON SHEET 14

D4
16 JAMB OPTION



MIN. & MAX. GAP
SEE CHART ON SHEET 14

D4
16 JAMB OPTION

FREE STANDING JAMB OPTIONS
SEE SHEET 6 FOR CAPACITIES

PRODUCT:

Resistor
3300 ALUMINUM
STOREFRONT WALL
(LARGE AND SMALL
MISSILE IMPACT)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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05	08/26/22 NEW GLASS SPACER

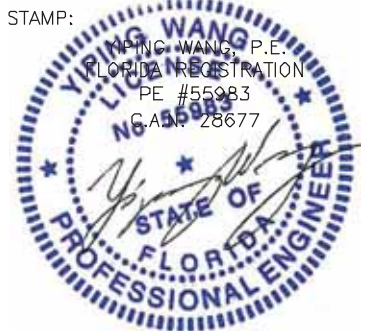
ENGINEER:



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STAMP:



September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN: James	DRAWING No:
DATE: 08/26/2022	16 OF 19
DWG: AD16-15	

3311 HEAD/SILL/JAMB	3301 HEAD/SILL/JAMB	3300A MALE MULLION	3300B FEMALE MULLION	3305 MALE JAMB
3108 TRANSOM GLASS STOP GUTTER	3109 TRANSOM GLASS STOP	10029 APPLIED DOOR STOP	3304 OPEN BACK GLASS STOP	3303 GLASS STOP COVER
3103 GLASS STOP	DUROMETER 85 +/- 5 SHORE A H62J SETTING BLOCK, 1-5/16" GLASS	DUROMETER 85 +/- 5 SHORE A H62D SETTING BLOCK, 9/16" GLASS	DUROMETER 65 +/- 5 SHORE A RG-1 EXTERIOR GLAZING GASKET	DUROMETER 70 +/- 5 SHORE A RG-33 FINGER GASKET
ST330 STEEL CHANNEL, F.H. - 48" MIN. A36	ST332 STEEL CHANNEL WITH 3/8"X3" STEEL BAR	ST333 STEEL CHANNEL WITH 1/2"X3" STEEL BAR	ST334 STEEL CHANNEL WITH 3/4"X3" STEEL BAR	ST337 STEEL CHANNEL A36

GLASS & ALUMINUM SOLUTIONS™

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PRODUCT:

Resistor

3300 ALUMINUM

STOREFRONT WALL

(LARGE AND SMALL MISSILE IMPACT)

Resistor
PRODUCT SERIES

REVN	DATE/REMARKS
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05	08/26/22 NEW GLASS SPACER

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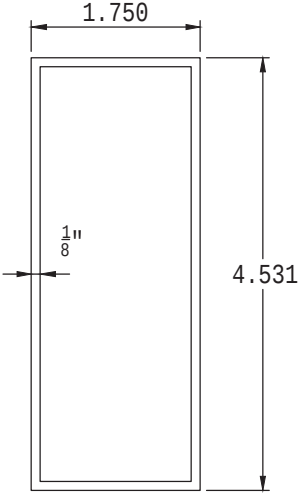
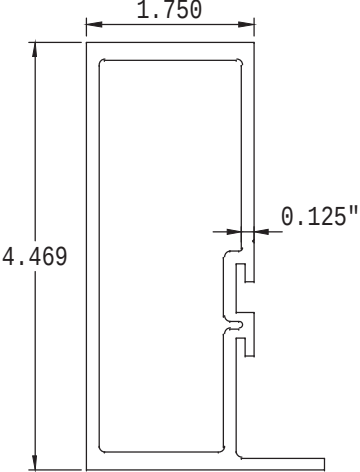
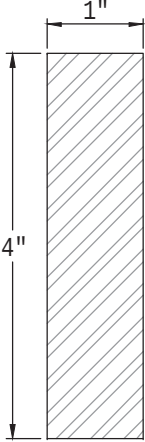
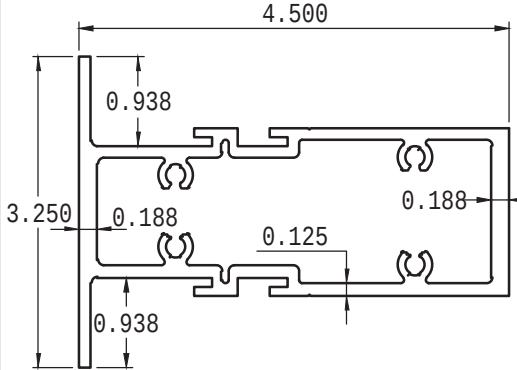
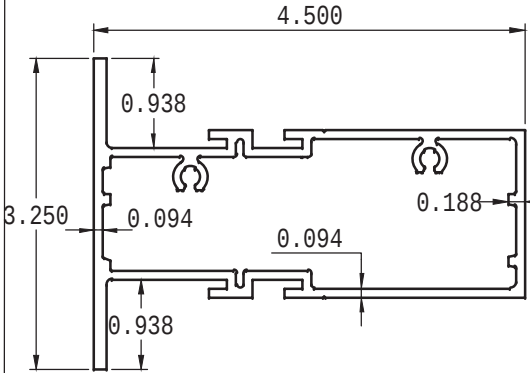
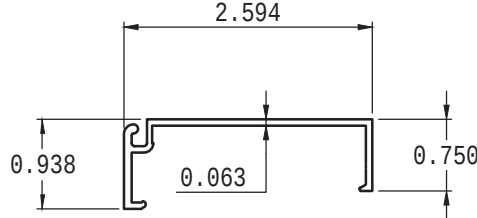
YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
EXPIRATION 12/31/2024

September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWN: James	DRAWING No:
DATE: 08/26/2022	17 OF 19
DWG: AD16-15	

 1A	 1B	 31	
10220 DOOR JAMB (OPTION)	3306 DOOR JAMB (OPTION)	3003 GLASS STOP	ST351X STEEL FLAT BAR 4"X1"
 2	 2A	 33	
3312 INT. VERTICAL / HORIZONTAL	3302 INT. VERTICAL / HORIZONTAL	3103X GLASS STOP	

PRODUCT:

Resistor

3300 ALUMINUM

STOREFRONT WALL

(LARGE AND SMALL

MISSILE IMPACT)

Resistor

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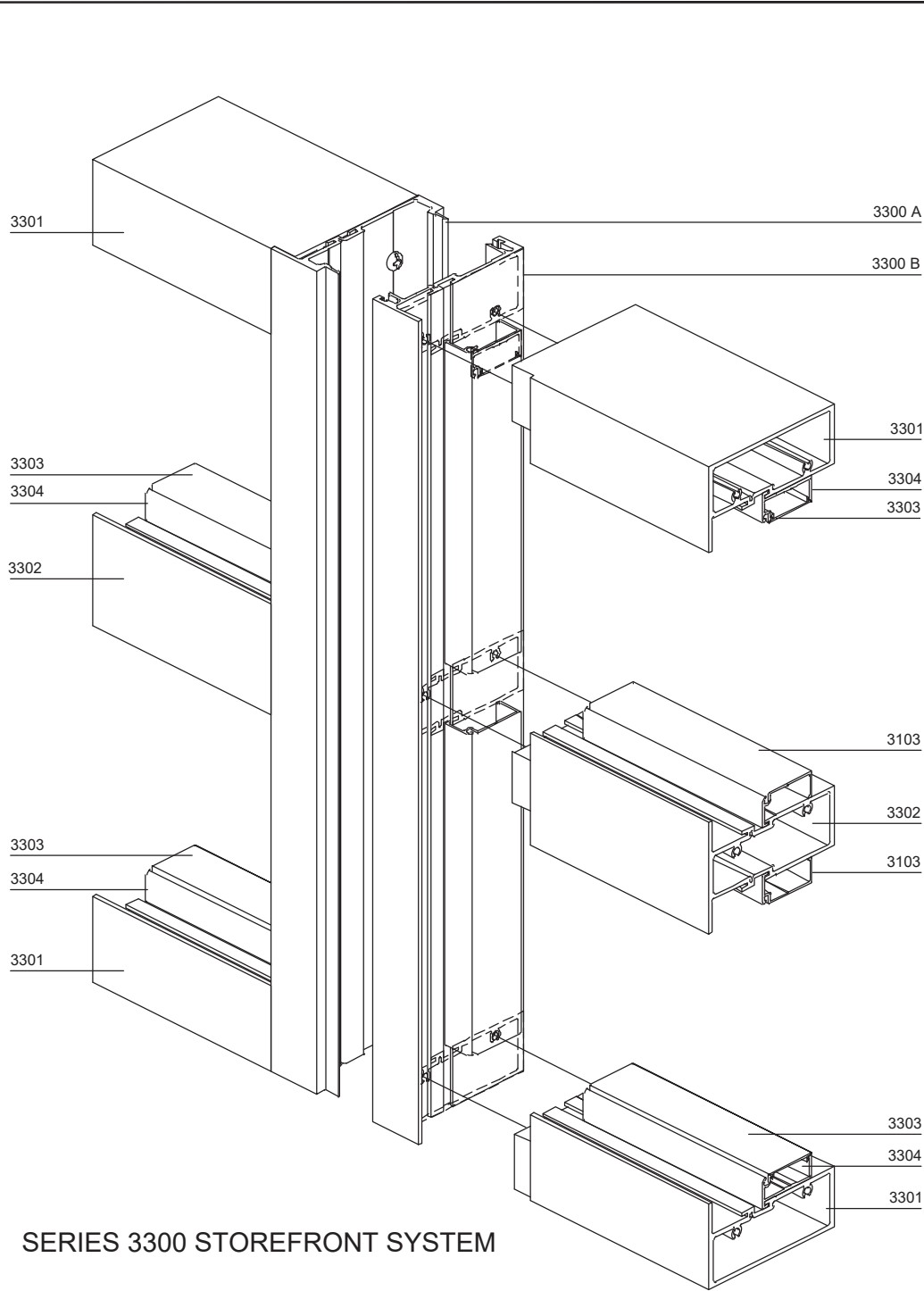
September. 6th, 2022

FLORIDA PRODUCT APPROVAL:

FL #20877

DRAWNJames	DRAWING No:
DATE:08/26/2022	18 OF 19
DWG: AD16-15	

ITEM	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER
1	3311	HEAD / SILL / JAMB	2.500 x 4.500	6063-T6 ALUM	TRULITE
1C	3301	HEAD / SILL / JAMB	2.500 x 4.500	6063-T6 ALUM	TRULITE
1A	10220	DOOR JAMB	1-3/4" X 4-1/2"	6063-T6 ALUM	TRULITE
1B	3306	DOOR JAMB/JAMB	1-3/4" X 4-1/2"	6063-T6 ALUM	TRULITE
2	3312	INT. HORIZONTAL	3.250 x 4.500	6063-T6 ALUM	TRULITE
2A	3302	INT. HORIZONTAL	3.250 x 4.500	6063-T6 ALUM	TRULITE
3	3300 A	MALE MULLION	2.124 x 4.530	6063-T6 ALUM	TRULITE
4	3300 B	FEMALE MULLION	1.625 x 4.530	6063-T6 ALUM	TRULITE
5	3303	GLASS STOP COVER	1.780 x 0.938	6063-T6 ALUM	TRULITE
6	3304	OPEN BACK GLASS STOP	1.50 x 0.188	6063-T6 ALUM	TRULITE
7	3305	MALE JAMB	1.50 x 0.188	6063-T6 ALUM	TRULITE
8	3103	GLASS STOP	1.780 x 0.938	6063-T6 ALUM	TRULITE
9	3108	TRANSOM GLASS STOP GUTTER	1.250 x 0.750	6063-T6 ALUM	TRULITE
10	3109	TRANSOM GLASS STOP	1.75 x 0.750	6063-T6 ALUM	TRULITE
11	10029	APPLIED DOOR STOP	1.750 x 0.500	6063-T6 ALUM	TRULITE
12	RG 1	EXTERIOR GLAZING GASKET	0.197 SPACE	EPDM	TRULITE
13	-	-	-	-	-
14	RG 33	FINGER GASKET	0.0186 SPACE	EPDM	TRULITE
15	V2100/ VK1826	GLAZING TAPE	0.250 x 0.375	FOAM TAPE	VARIES
16	H62J	SETTING BLOCK FOR 1-5/16" GLASS	7/16"" X 1 5/16" X 4"	EPDM	TRULITE
17	H62D	SETTING BLOCK FOR 9/16" GLASS	1/4" X 9/16" X 4"	EPDM	TRULITE
18	23126	RETENTION SCREW @ REINF	#12-24 x 3/8" PPH-23 MS	STEEL (ZINC COATED)	ALLOY FASTENER
19	2312650	ASSEMBLY SCREWS	#12-24-1" PPH-23 MS	STEEL (ZINC COATED)	ALLOY FASTENER
20	-	DOWSIL 995	-	SILICONE	DOWSIL
21	-	PROGLAZE SSG	-	SILICONE	TREMCO
22	-	SIKASIL SG-10	-	SILICONE	SIKA
23	-	INSULATED ALUMINUM SPACER	0.501 X 0.282 X 0.031	ALUMINUM	HELIMA HELVETION INT. / VARIES
24	ST330	STEEL CHANNEL (LENGTH = FH - 48" MIN.)	3.375 X 1.000 X .125 THK.	STEEL A36 MIN.	VARIES
25	ST332	STEEL CHANNEL W/ FLAT BAR	3.375 X 1.0 X 0.125 & 3.0 X 0.375	STEEL A36 MIN.	VARIES
26	ST333	STEEL CHANNEL W/ FLAT BAR	3.375 X 1.0 X 0.125 & 3.0 X 0.50	STEEL A36 MIN.	VARIES
27	ST334	STEEL CHANNEL W/ FLAT BAR	3.375 X 1.0 X 0.125 & 3.0 X 0.75	STEEL A36 MIN.	VARIES
28	-	3/8" THRU-BOLT	-	STEEL A36 MIN.	VARIES
29	ST337	1.06"x4"x0.875"x316" STEEL CHANNEL	-	STEEL A36 MIN.	VARIES
30	3009	TRANSOM GLASS STOP	-	6063-T6 ALUM	TRULITE
31	ST351X	STEEL FLAT BAR	1" X 4" BAR	STEEL A36 MIN.	VARIES
32	23233	ASSEMBLY SCREWS	#14-20-1 1/2" PH TC MS	STEEL (ZINC COATED)	ALLOY FASTENER
33	3103X	GLASS STOP	-	6063-T6 ALUM	TRULITE
34	-	DOWSIL 983	-	SILICONE	DOWSIL
35	-	KODISPACE 4SG WARM EDGE SPACER	-	THERMOPLASTIC	HB FULLER/KOMMERLING



SERIES 3300 STOREFRONT SYSTEM

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 9 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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