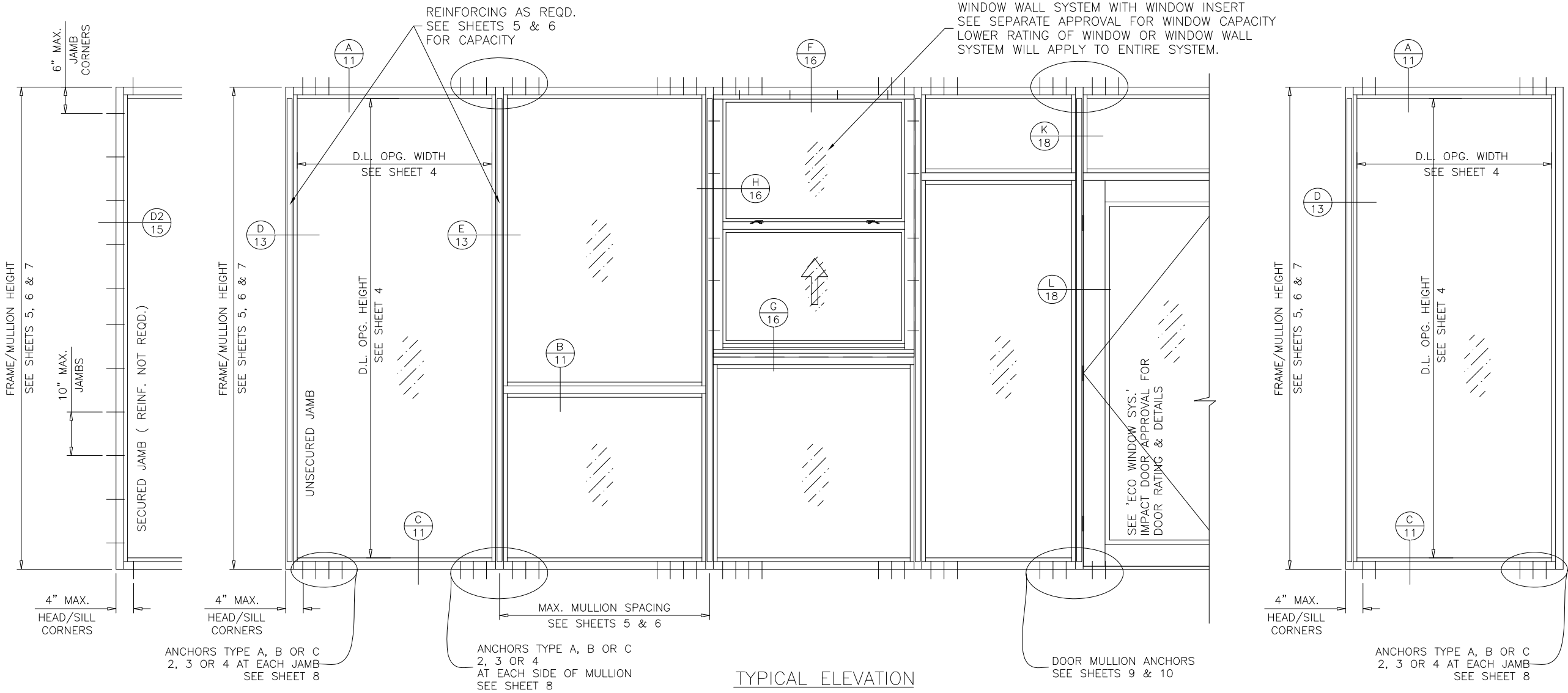


SERIES 400 ALUMINUM WINDOW WALL SYSTEM



THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FBC APPROVED LARGE MISSILE IMPACT RESISTANT DOORS.

LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT AS LISTED, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

INSTRUCTIONS:

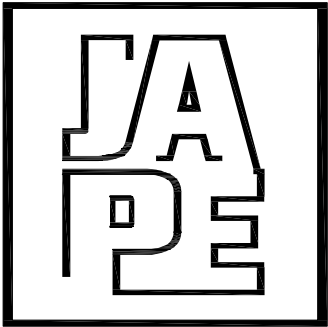
USE CHARTS AS FOLLOWS.

- STEP 1
- DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2
- CHECK GLASS CAPACITY TABLE ON SHEET 4 FOR GLASS TYPE, GLASS DIMENSIONS (WIDTH & HEIGHT) AND PRESSURE CAPACITY. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 3
- CHECK WINDOW WALL SYSTEM CAPACITY FOR DESIRED HEIGHT AND MULLION SPACING USING CHARTS ON SHEETS 5 , 6 & 7. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4
- USING CHARTS ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5
- VERIFY UNANCHORED JAMBS, IF USED AS PER SHEETS 5, 6 AND 10.
- STEP 6
- THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 7
- WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

LARGE MISSILE IMPACT

ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.



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PROJECT :

SERIES 400
ALUMINUM WINDOW WALL
SYSTEM

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

REVISION

No.	DATE	BY	DESCRIPTION
Date:	08-14-26		
Scale:	N/A		
Drawn by:	JM		
Check by:	JA		
Drawing no.	JA-1518-26		

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254

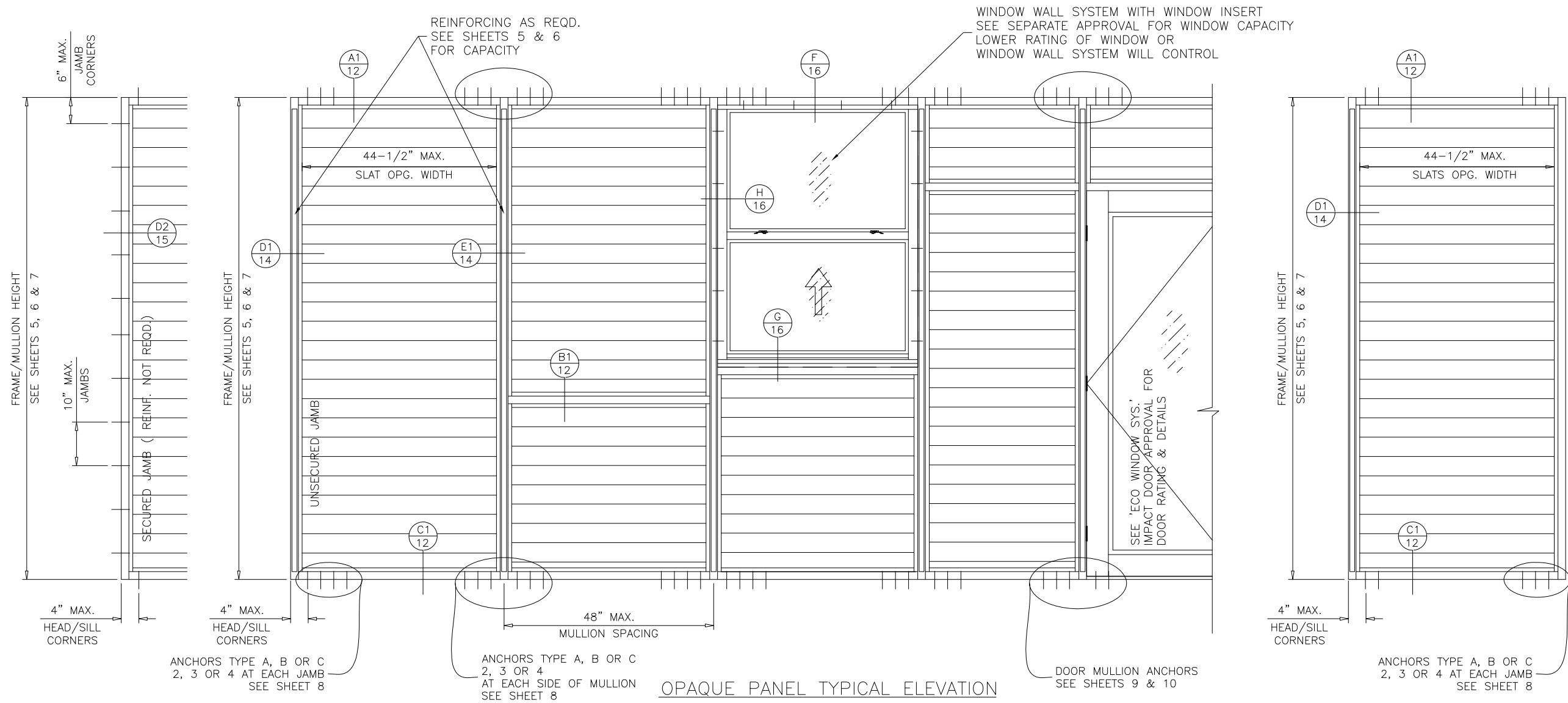


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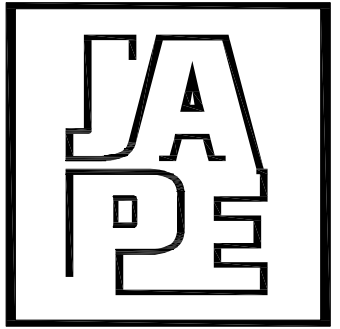
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01

OF 20



OPAQUE PANEL TYPICAL ELEVATION



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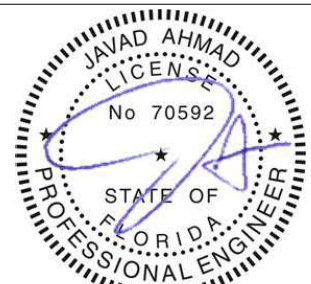


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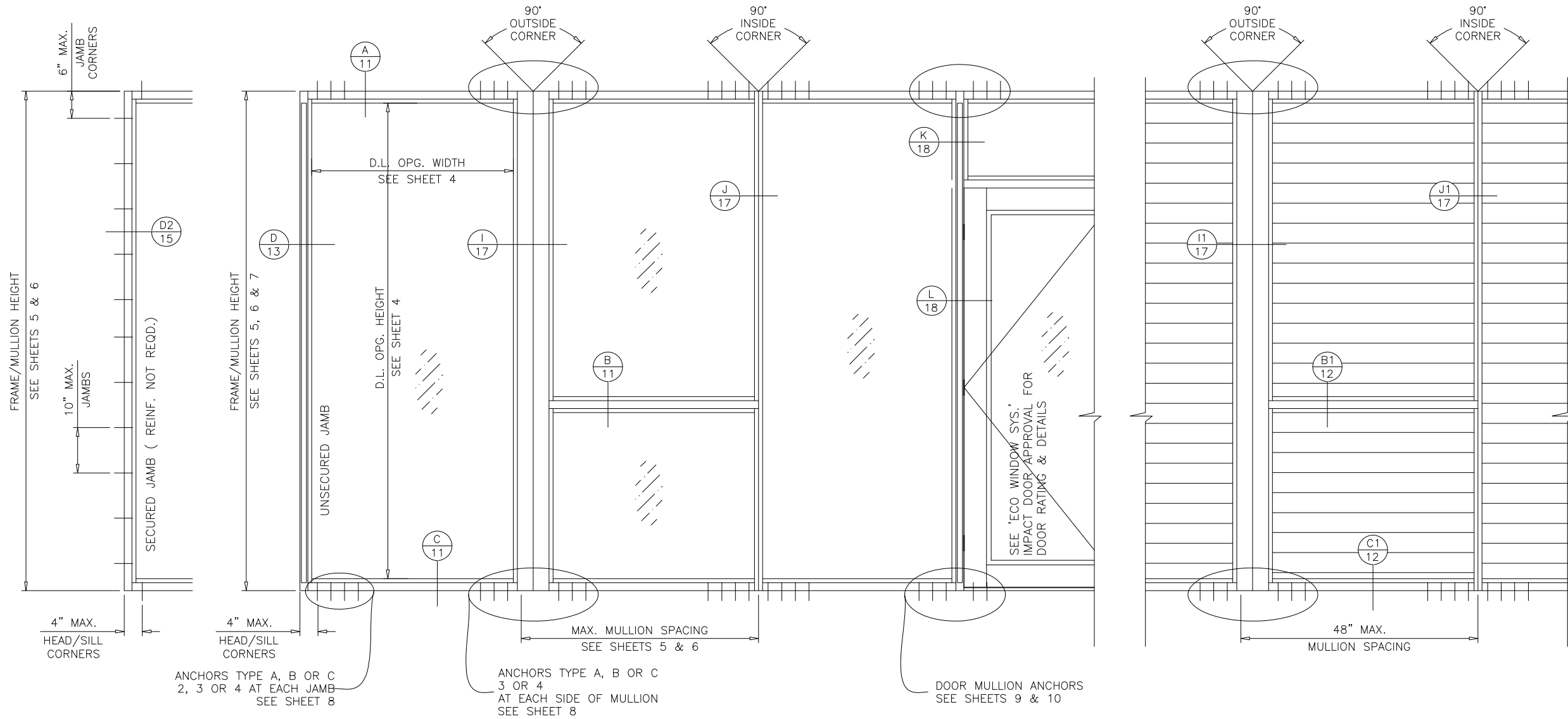


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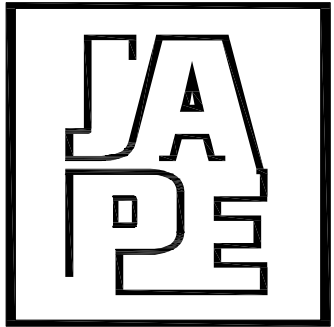
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02

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TYPICAL ELEVATION



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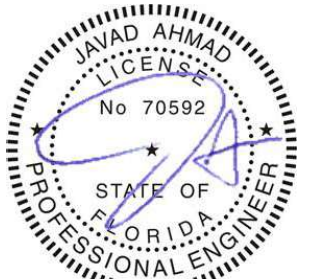


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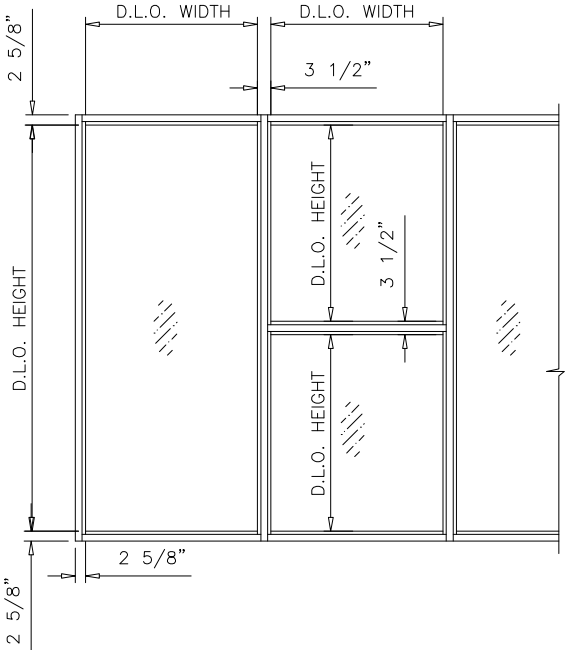
FL# 21632.1

03

OF 20

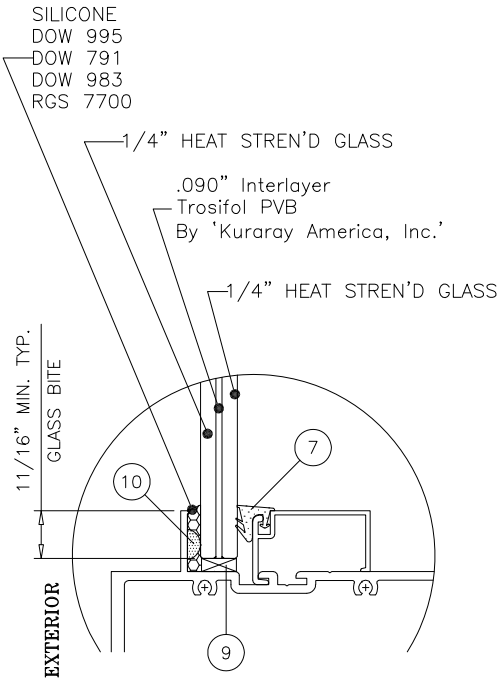
GLASS LOAD CAPACITY – PSF					
NOMINAL DIMS.		GLASS TYPES 'A'		GLASS TYPES 'B' & 'C'	
D.L.O. WIDTH	D.L.O. HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
26- 1/ 2"	78- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	130.0
50- 1/ 2"		65.0	75.0	80.0	130.0
56- 1/ 2"		65.0	75.0	80.0	130.0
26- 1/ 2"	84- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	130.0
50- 1/ 2"		65.0	75.0	80.0	130.0
56- 1/ 2"		65.0	75.0	80.0	100.0
26- 1/ 2"	90- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	130.0
50"		65.0	75.0	80.0	130.0
50- 1/ 2"		65.0	75.0	80.0	100.0
56- 1/ 2"		65.0	75.0	80.0	100.0
26- 1/ 2"	96- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	130.0
47"		65.0	75.0	80.0	130.0
52- 1/ 2"		65.0	75.0	80.0	100.0
26- 1/ 2"	102- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
44"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	100.0
49"		65.0	75.0	80.0	100.0
50- 1/ 2"	108- 3/ 4"	-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0
26- 1/ 2"		65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
41"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	100.0
47"		65.0	75.0	80.0	100.0
50- 1/ 2"		-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0
26- 1/ 2"	114- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	130.0
39"		65.0	75.0	80.0	130.0
44- 1/ 2"		65.0	75.0	80.0	100.0
50- 1/ 2"		-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0

GLASS LOAD CAPACITY – PSF					
NOMINAL DIMS.		GLASS TYPES 'A'		GLASS TYPES 'B' & 'C'	
D.L.O. WIDTH	D.L.O. HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
26- 1/ 2"	120- 3/ 4"	65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
37"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	100.0
42"		65.0	75.0	80.0	100.0
44- 1/ 2"		-	-	70.0	70.0
50- 1/ 2"	126- 3/ 4"	-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0
26- 1/ 2"		65.0	75.0	80.0	130.0
32- 1/ 2"		65.0	75.0	80.0	130.0
35"		65.0	75.0	80.0	130.0
38- 1/ 2"		65.0	75.0	80.0	100.0
40"		65.0	75.0	80.0	100.0
44- 1/ 2"	150- 3/ 4"	-	-	70.0	70.0
50- 1/ 2"		-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0
26- 1/ 2"		-	-	70.0	70.0
32- 1/ 2"		-	-	70.0	70.0
35"		-	-	70.0	70.0
38- 1/ 2"		-	-	70.0	70.0
40"		-	-	70.0	70.0
44- 1/ 2"		-	-	70.0	70.0
50- 1/ 2"		-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0
56- 1/ 2"		-	-	70.0	70.0

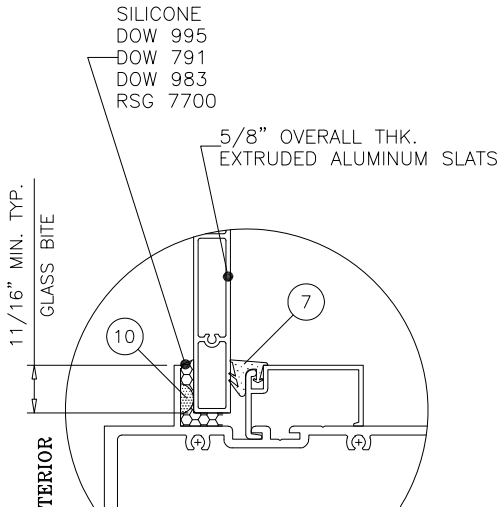


NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300–09 (3 SEC. GUSTS).

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLASS TYPE 'A'

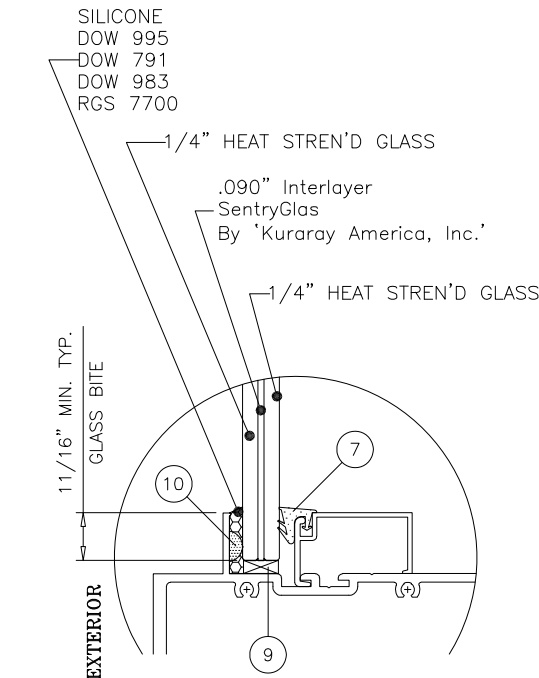


ALUMINUM SLATS

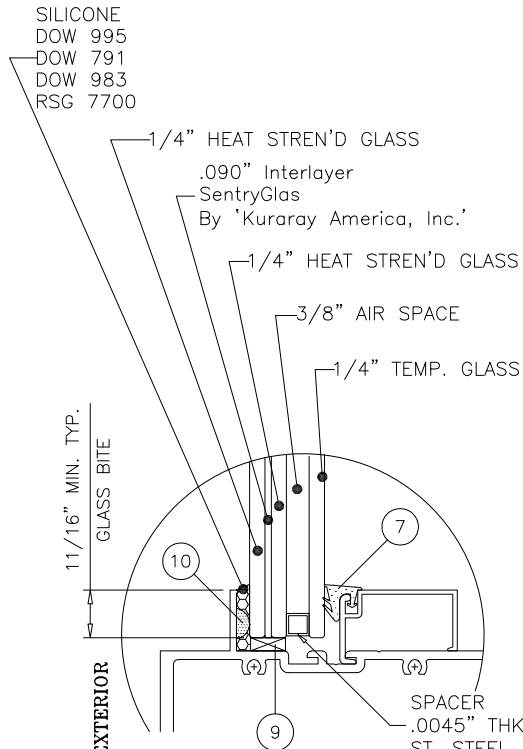
LIMITATIONS:
MAX. SLATS OPG. WIDTH = 44–1/2"
MAX. FRAME HEIGHT = 120 INCHES
MAX. DESIGN LOAD = ± 80.0 PSF

NOT APPROVED FOR
UNSECURED JAMB 'J1' AND MULLION 'M1'

FOR MULLION 'M2' ONLY
LIMIT MAX. POS. LOAD TO +74.8 PSF

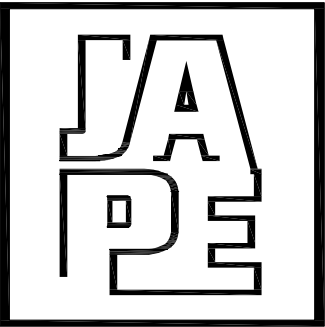


GLASS TYPE 'B'



GLASS TYPE 'C'

GLAZING OPTIONS



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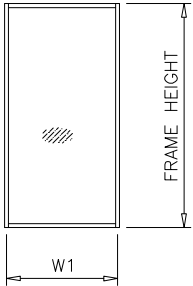
Eng: JAVAD AHMAD, PE
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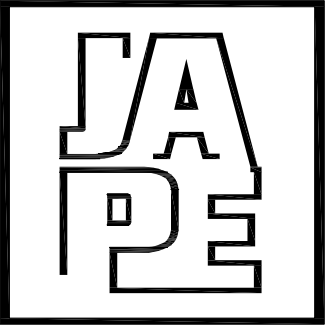
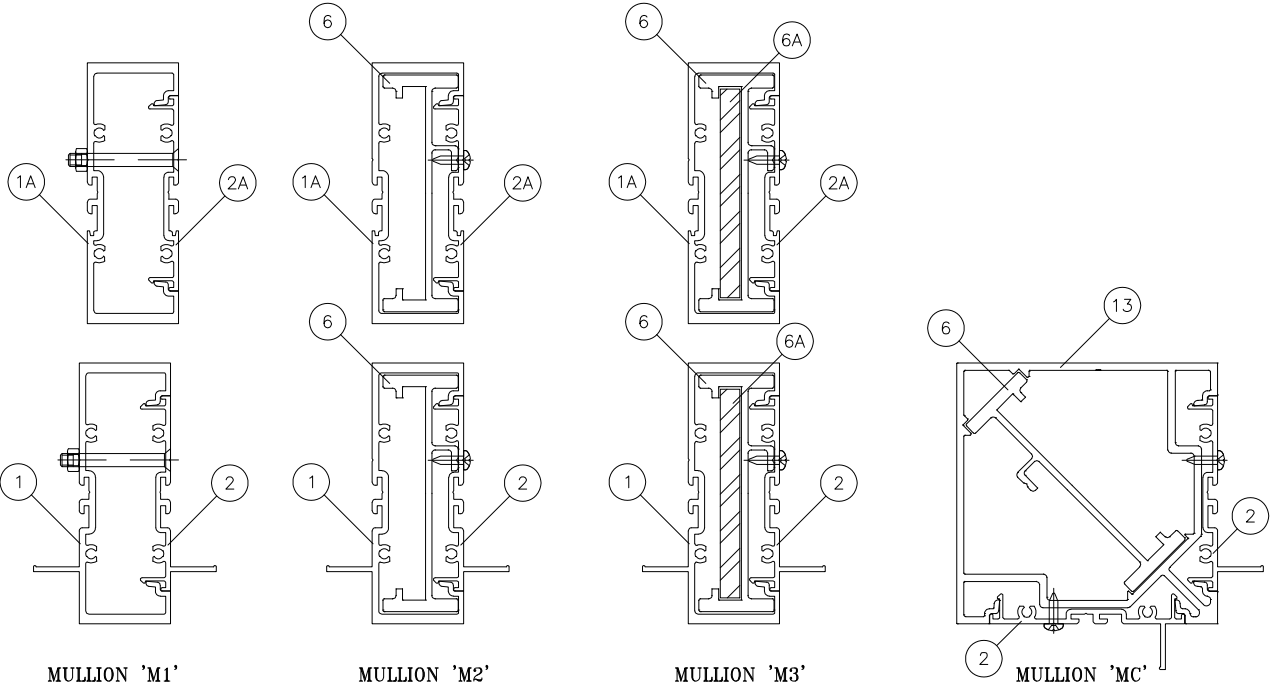
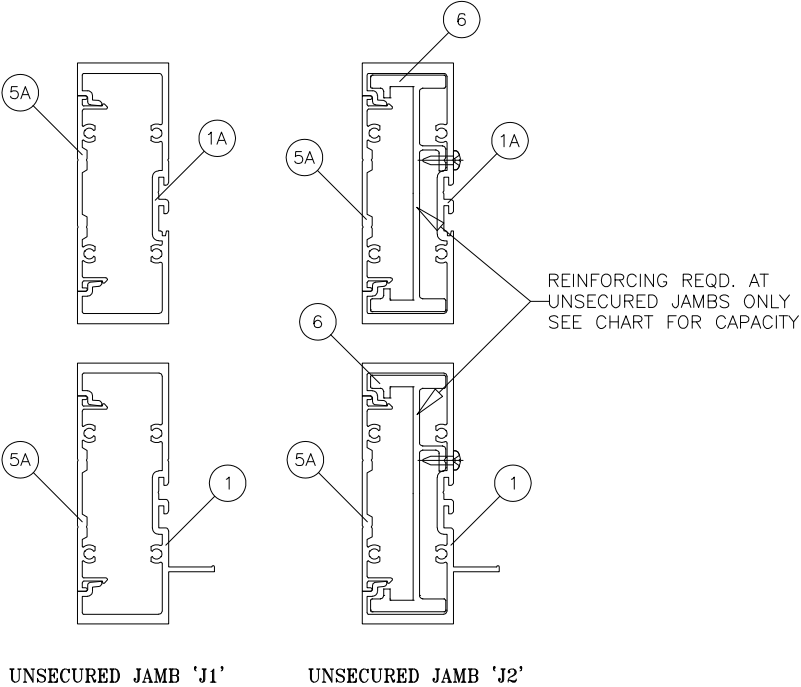
FL# 21632.1

JAMB & MULLION LOAD CAPACITY – PSF									
JAMBS & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
30"	84"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
54"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
60"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
30"	90"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
54"		80.0	97.7	80.0	100.0	80.0	130.0	80.0	120.0
60"		80.0	90.9	80.0	100.0	80.0	130.0	80.0	120.0
30"	96"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	92.1	80.0	100.0	80.0	130.0	80.0	120.0
54"		80.0	83.9	80.0	100.0	80.0	130.0	80.0	120.0
60"		77.7	77.7	80.0	100.0	80.0	130.0	80.0	120.0
30"	102"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	90.1	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	80.2	80.0	100.0	80.0	130.0	80.0	120.0
54"		72.9	72.9	80.0	100.0	80.0	130.0	80.0	120.0
56"		70.8	70.8	80.0	100.0	80.0	130.0	80.0	120.0
60"		-	-	-	-	80.0	130.0	80.0	120.0
30"	108"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	91.3	80.0	100.0	80.0	130.0	80.0	120.0
42"		79.3	79.3	80.0	100.0	80.0	130.0	80.0	120.0
48"		70.5	70.5	80.0	100.0	80.0	130.0	80.0	120.0
53"		64.8	64.8	80.0	99.5	80.0	125.3	80.0	120.0
54"		-	-	-	-	80.0	123.4	80.0	120.0
56"		-	-	-	-	80.0	120.0	80.0	120.0
60"		-	-	-	-	80.0	113.4	-	-
30"	114"	80.0	96.4	80.0	100.0	80.0	100.0	80.0	120.0
36"		80.0	81.1	80.0	100.0	80.0	100.0	80.0	120.0
42"		70.4	70.4	80.0	100.0	80.0	100.0	80.0	120.0
48"		62.4	62.4	80.0	95.6	80.0	100.0	80.0	120.0
50"		60.3	60.3	80.0	92.3	80.0	100.0	80.0	120.0
54"		-	-	-	-	80.0	80.0	80.0	120.0
60"		-	-	-	-	80.0	80.0	-	-
30"	120"	80.0	82.4	80.0	100.0	80.0	100.0	80.0	120.0
36"		69.5	69.5	80.0	100.0	80.0	100.0	80.0	120.0
42"		60.3	60.3	80.0	96.0	80.0	100.0	80.0	120.0
48"		53.6	53.6	80.0	85.1	80.0	100.0	80.0	120.0
51- 7 / 8"		-	-	-	-	80.0	80.0	80.0	120.0
54"		-	-	-	-	80.0	80.0	-	-
60"		-	-	-	-	80.0	80.0	-	-
30"	126"	-	-	-	-	80.0	80.0	-	-
36"		-	-	-	-	80.0	80.0	-	-
42"		-	-	-	-	80.0	80.0	-	-
30"	132"	-	-	-	-	80.0	80.0	-	-
36"		-	-	-	-	80.0	80.0	-	-
42"		-	-	-	-	80.0	80.0	-	-



WIDTH (W) = W1
AT FRAME JAMB

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



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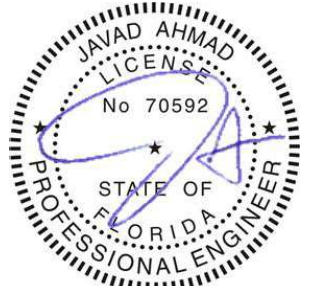


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Date:	08-14-26
Scale:	N/A
Drawn by:	JM
Check by:	JA
Drawing no.	JA-1518-26

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



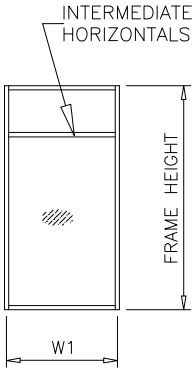
SEALED: 08-18-26

FL# 21632.1

05

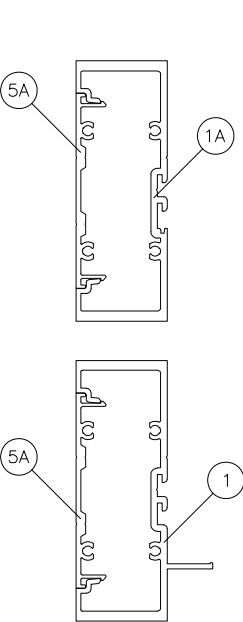
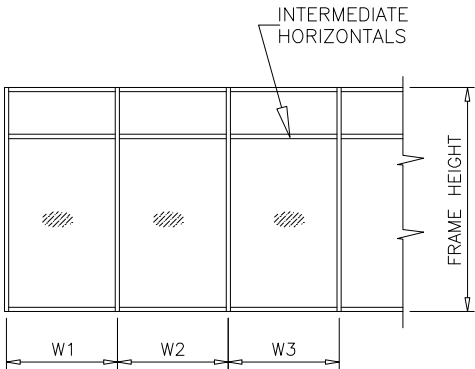
OF 20

JAMB & MULLION LOAD CAPACITY - PSF									
JAMBS & MULLIONS WITH INTERMEDIATE HORIZONTALS									
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'		JAMB 'J2' MULL 'M3'		MULL 'MC'	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
30"	84"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
54"		80.0	99.6	80.0	100.0	80.0	130.0	80.0	120.0
60"		80.0	89.7	80.0	100.0	80.0	130.0	80.0	120.0
30"	90"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
54"		80.0	86.2	80.0	100.0	80.0	130.0	80.0	120.0
60"		77.6	77.6	80.0	100.0	80.0	130.0	80.0	120.0
30"	96"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	96.7	80.0	100.0	80.0	130.0	80.0	120.0
48"		80.0	84.6	80.0	100.0	80.0	130.0	80.0	120.0
54"		75.2	75.2	80.0	100.0	80.0	130.0	80.0	120.0
60"		67.7	67.7	80.0	100.0	80.0	129.1	80.0	120.0
30"	102"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	99.3	80.0	100.0	80.0	130.0	80.0	120.0
42"		80.0	85.1	80.0	100.0	80.0	130.0	80.0	120.0
48"		74.5	74.5	80.0	100.0	80.0	130.0	80.0	120.0
54"		66.2	66.2	80.0	100.0	80.0	127.1	80.0	120.0
56"		63.8	63.8	80.0	98.1	80.0	122.5	80.0	120.0
60"		-	-	-	-	80.0	114.3	80.0	120.0
30"	108"	80.0	100.0	80.0	100.0	80.0	130.0	80.0	120.0
36"		80.0	88.0	80.0	100.0	80.0	130.0	80.0	120.0
42"		75.4	75.4	80.0	100.0	80.0	130.0	80.0	120.0
48"		66.0	66.0	80.0	100.0	80.0	127.5	80.0	120.0
53"		59.8	59.8	80.0	91.7	80.0	115.5	80.0	120.0
54"		-	-	-	-	80.0	114.0	80.0	120.0
56"		-	-	-	-	80.0	113.3	80.0	120.0
60"		-	-	-	-	80.0	102.0	-	-
30"	114"	80.0	94.0	80.0	100.0	80.0	100.0	80.0	120.0
36"		78.3	78.3	80.0	100.0	80.0	100.0	80.0	120.0
42"		67.1	67.1	80.0	100.0	80.0	100.0	80.0	120.0
48"		58.7	58.7	80.0	90.1	80.0	100.0	80.0	120.0
50"		56.4	56.4	80.0	86.5	80.0	100.0	80.0	120.0
54"		-	-	-	-	80.0	80.0	80.0	120.0
60"		-	-	-	-	80.0	80.0	-	-
30"	120"	80.0	80.6	80.0	100.0	80.0	100.0	80.0	120.0
36"		67.1	67.1	80.0	100.0	80.0	100.0	80.0	120.0
42"		57.5	57.5	80.0	92.2	80.0	100.0	80.0	120.0
48"		50.4	50.4	80.0	80.7	80.0	100.0	80.0	120.0
51 - 7/8"		-	-	-	-	80.0	100.0	80.0	120.0
54"		-	-	-	-	80.0	80.0	-	-
60"		-	-	-	-	80.0	80.0	-	-
30"	126"	-	-	-	-	80.0	80.0	-	-
36"		-	-	-	-	80.0	80.0	-	-
42"		-	-	-	-	80.0	80.0	-	-
48"		-	-	-	-	80.0	80.0	-	-
54"		-	-	-	-	80.0	80.0	-	-
60"		-	-	-	-	74.9	74.9	-	-
30"	132"	-	-	-	-	80.0	80.0	-	-
36"		-	-	-	-	80.0	80.0	-	-
42"		-	-	-	-	80.0	80.0	-	-
48"		-	-	-	-	80.0	80.0	-	-
54"		-	-	-	-	75.9	75.9	-	-
60"		-	-	-	-	68.3	68.3	-	-

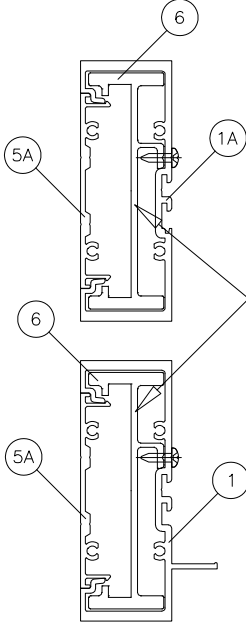


WIDTH (W) = W1
AT FRAME JAMB

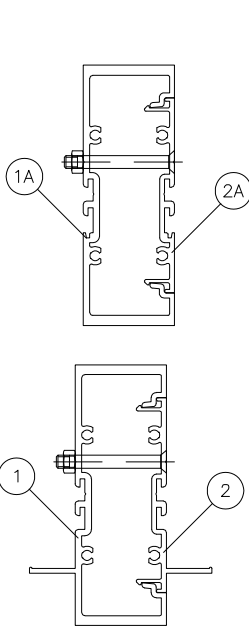
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION



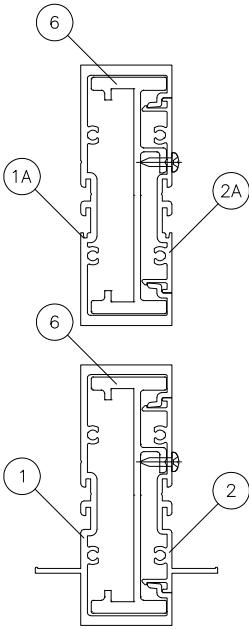
UNSECURED JAMB 'J1'



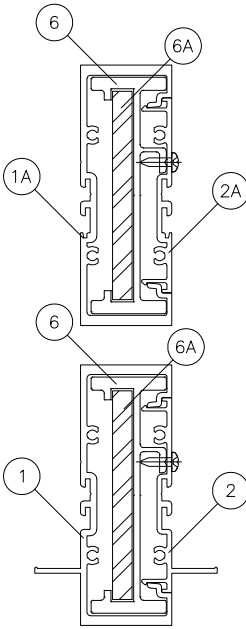
UNSECURED JAMB 'J2'



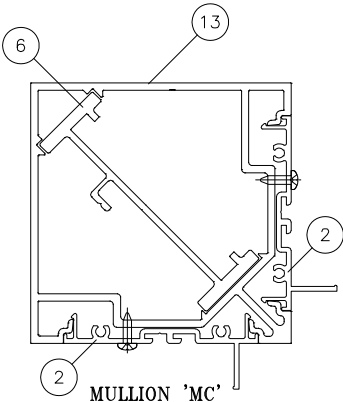
MULLION 'M1'



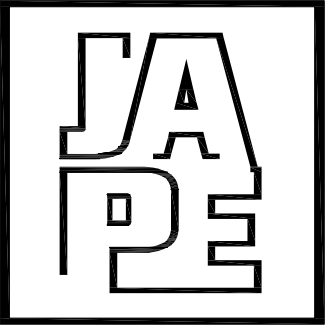
MULLION 'M2'



MULLION 'M3'



MULLION 'MC'



JAVAD AHMAD PE, inc

7320 NW 58th Street
Miami, FL 33166
Ph: (305) 424-8001
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING
ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

SERIES 400
ALUMINUM WINDOW WALL
SYSTEM

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

REVISION

No.	DATE	BY	DESCRIPTION

Date: 08-14-26

Scale: N/A

Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



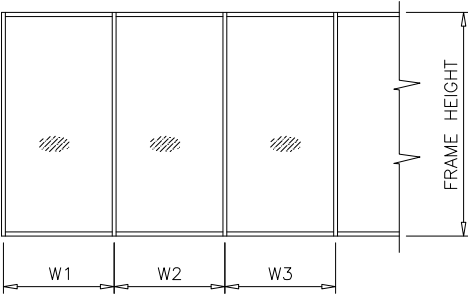
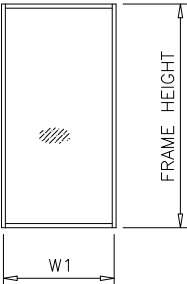
SEALED: 08-18-26

FL# 21632.1

06

OF 20

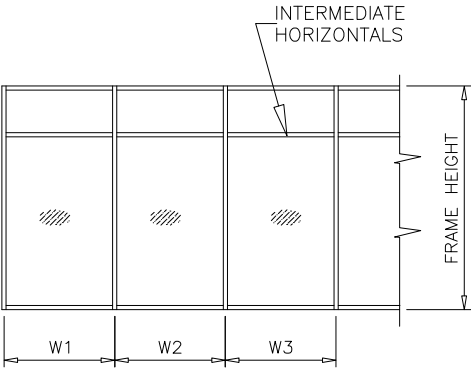
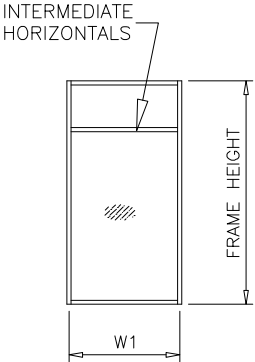
MULLION LOAD CAPACITY – PSF			
MULLIONS WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULL ‘M4’	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)
30"	132"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		70.0	70.0
30"	144"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		64.2	64.2
30"	150"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		68.9	68.9
54"		62.0	62.0
60"		56.5	56.5
30"	156"	70.0	70.0
36"		70.0	70.0
42"		69.2	69.2
48"		61.1	61.1
54"		54.9	54.9
60"		50.0	50.0



WIDTH (W) = W1
AT FRAME JAMB

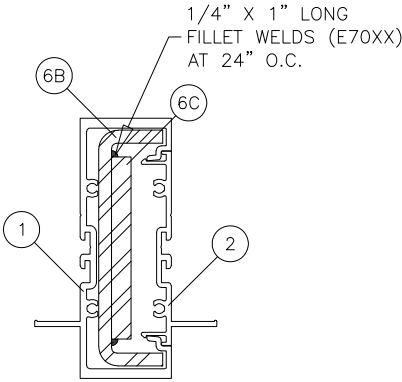
WIDTH (W) = $\frac{W2 + W3}{2}$
AT FRAME MULLION

MULLION LOAD CAPACITY – PSF			
MULLIONS WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULL ‘M4’	
WIDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)
30"	132"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		70.0	70.0
60"		70.0	70.0
30"	144"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		70.0	70.0
54"		66.6	66.6
60"		60.0	60.0
30"	150"	70.0	70.0
36"		70.0	70.0
42"		70.0	70.0
48"		66.3	66.3
54"		58.9	58.9
60"		53.0	53.0
30"	156"	70.0	70.0
36"		70.0	70.0
42"		67.4	67.4
48"		58.9	58.9
54"		52.4	52.4
60"		47.2	47.2

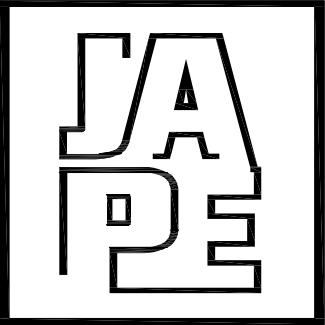


WIDTH (W) = W1
AT FRAME JAMB

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



MULLION ‘M4’



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REVISION

No.	DATE	BY	DESCRIPTION

Date: 08-14-26

Scale: N/A

Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

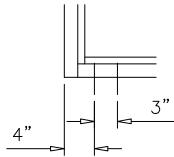
Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



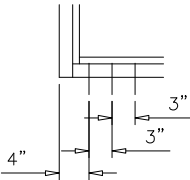
SEALED: 08-18-26

ANCHOR LOAD CAPACITY – PSF POS. (+) & NEG. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	84"	123.0	130.0	130.0	130.0	130.0	130.0
36"		102.5	130.0	130.0	130.0	130.0	130.0
42"		87.8	130.0	130.0	112.3	130.0	130.0
48"		76.9	115.3	130.0	98.3	130.0	130.0
54"		68.3	102.5	130.0	87.4	130.0	130.0
60"		61.5	92.2	123.0	78.6	117.9	130.0
30"	90"	114.8	130.0	130.0	130.0	130.0	130.0
36"		95.6	130.0	130.0	122.3	130.0	130.0
42"		82.0	123.0	130.0	104.8	130.0	130.0
48"		71.7	107.6	130.0	91.7	130.0	130.0
54"		63.8	95.6	127.5	81.5	122.3	130.0
60"		57.4	86.1	114.8	73.4	110.1	130.0
30"	96"	107.6	130.0	130.0	130.0	130.0	130.0
36"		89.7	130.0	130.0	114.7	130.0	130.0
42"		76.9	115.3	130.0	98.3	130.0	130.0
48"		67.3	100.9	130.0	86.0	129.0	130.0
54"		59.8	89.7	119.6	76.4	114.7	130.0
60"		53.8	80.7	107.6	68.8	103.2	130.0
30"	102"	101.3	130.0	130.0	129.5	130.0	130.0
36"		84.4	126.6	130.0	107.9	130.0	130.0
42"		72.3	108.5	130.0	92.5	130.0	130.0
48"		63.3	94.9	126.6	80.9	121.4	130.0
54"		56.3	84.4	112.5	71.9	107.9	130.0
60"		50.6	76.0	101.3	64.8	97.1	129.5
30"	108"	95.6	130.0	130.0	122.3	130.0	130.0
36"		79.7	119.6	130.0	101.9	130.0	130.0
42"		68.3	102.5	130.0	87.4	130.0	130.0
48"		59.8	89.7	119.6	76.4	114.7	130.0
54"		53.1	79.7	106.3	68.0	101.9	130.0
60"		47.8	71.7	95.6	61.2	91.7	122.3
30"	114"	90.6	130.0	130.0	115.9	130.0	130.0
36"		75.5	113.3	130.0	96.6	130.0	130.0
42"		64.7	97.1	129.4	82.8	124.2	130.0
48"		56.6	84.9	113.3	72.4	108.6	130.0
54"		50.3	75.5	100.7	64.4	96.6	128.7
60"		45.3	68.0	90.6	57.9	86.9	115.9
30"	120"	86.1	129.1	130.0	110.1	130.0	130.0
36"		71.7	107.6	130.0	91.7	130.0	130.0
42"		61.5	92.2	123.0	78.6	117.9	130.0
48"		53.8	80.7	107.6	68.8	103.2	130.0
54"		47.8	71.7	95.6	61.2	91.7	122.3
60"		43.0	64.6	86.1	55.0	82.6	110.1
30"	126"	82.0	123.0	130.0	104.8	130.0	130.0
36"		68.3	102.5	130.0	87.4	130.0	130.0
42"		58.6	87.8	117.1	74.9	112.3	130.0
48"		51.2	76.9	102.5	65.5	98.3	130.0
54"		45.5	68.3	91.1	58.2	87.4	116.5
60"		41.0	61.5	82.0	52.4	78.6	104.8

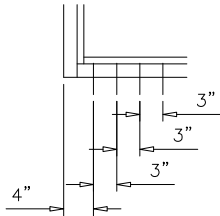
ANCHOR LOAD CAPACITY – PSF POS. (+) & NEG. (-)							
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B' & 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2/C2	B3/C3	B4/C4
30"	132"	78.3	117.4	130.0	100.1	130.0	130.0
36"		65.2	97.8	130.0	83.4	125.1	130.0
42"		55.9	83.8	111.8	71.5	107.2	130.0
48"		48.9	73.4	97.8	62.5	93.8	125.1
54"		43.5	65.2	86.9	55.6	83.4	111.2
60"		39.1	58.7	78.3	50.0	75.1	100.1
30"	144"	70.0	70.0	70.0	70.0	70.0	70.0
36"		59.8	70.0	70.0	70.0	70.0	70.0
42"		51.2	70.0	70.0	65.5	70.0	70.0
48"		44.8	67.3	70.0	57.3	70.0	70.0
54"		39.9	59.8	70.0	51.0	70.0	70.0
60"		35.9	53.8	70.0	45.9	68.8	70.0
30"	150"	68.9	70.0	70.0	70.0	70.0	70.0
36"		57.4	70.0	70.0	70.0	70.0	70.0
42"		49.2	70.0	70.0	62.9	70.0	70.0
48"		43.0	64.6	70.0	55.0	70.0	70.0
54"		38.3	57.4	70.0	48.9	70.0	70.0
60"		34.4	51.6	68.9	44.0	66.0	70.0
30"	156"	66.2	70.0	70.0	70.0	70.0	70.0
36"		55.2	70.0	70.0	70.0	70.0	70.0
42"		47.3	70.0	70.0	60.5	70.0	70.0
48"		41.4	62.1	70.0	52.9	70.0	70.0
54"		36.8	55.2	70.0	47.0	70.0	70.0
60"		33.1	49.7	66.2	42.3	63.5	70.0



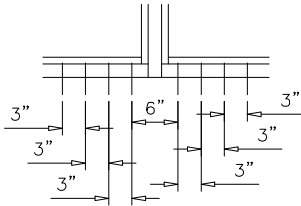
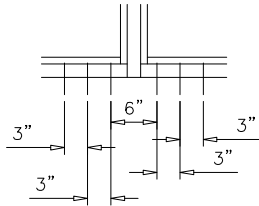
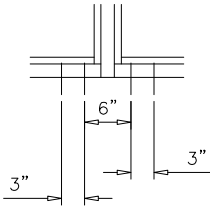
A2, B2, C2



A3, B3, C3



A4, B4, C4



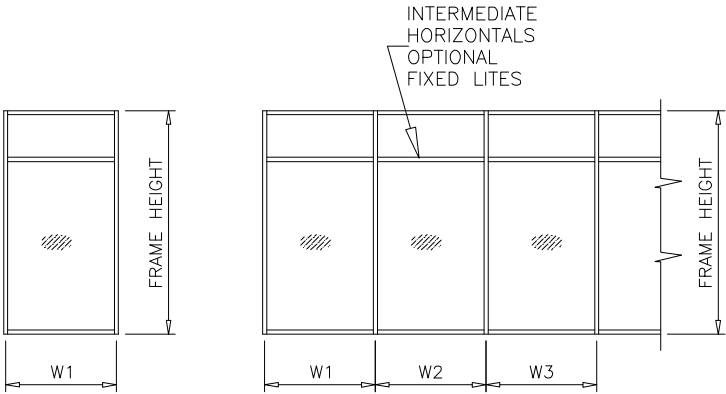
NOTE:
USE SEAR CLIP UW-403 AT
ANCHOR LOCATIONS OF SUFFICIENT LENGTH
TO COVER ALL ANCHOR SPACINGS

ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

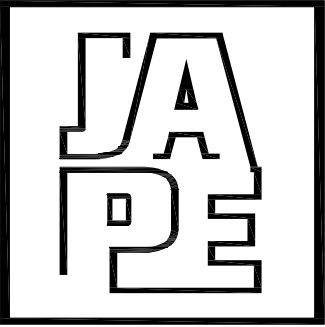
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION



WIDTH (W) = W1
AT FRAME JAMB

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



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PROJECT :

SERIES 400
ALUMINUM WINDOW WALL
SYSTEM

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

REVISION

No.	DATE	BY	DESCRIPTION

Date: 08-14-26

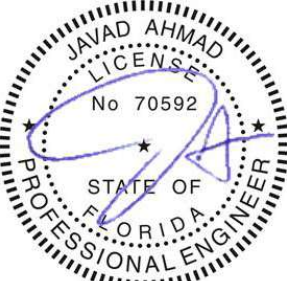
Scale: N/A

Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



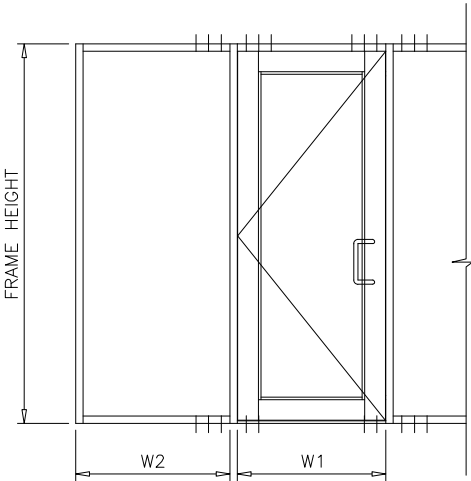
SEALED: 08-18-26

FL# 21632.1

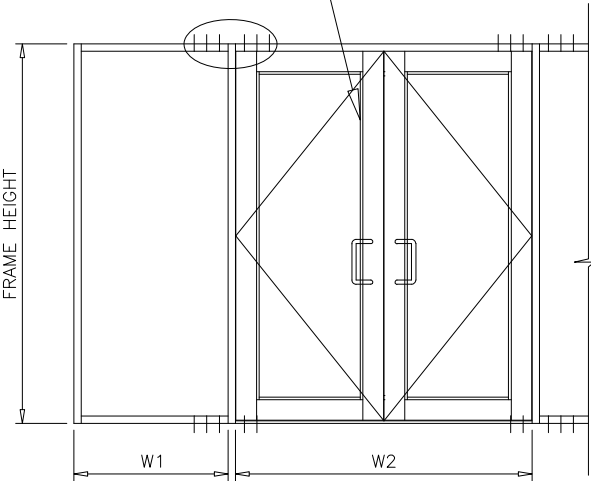
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OF 20

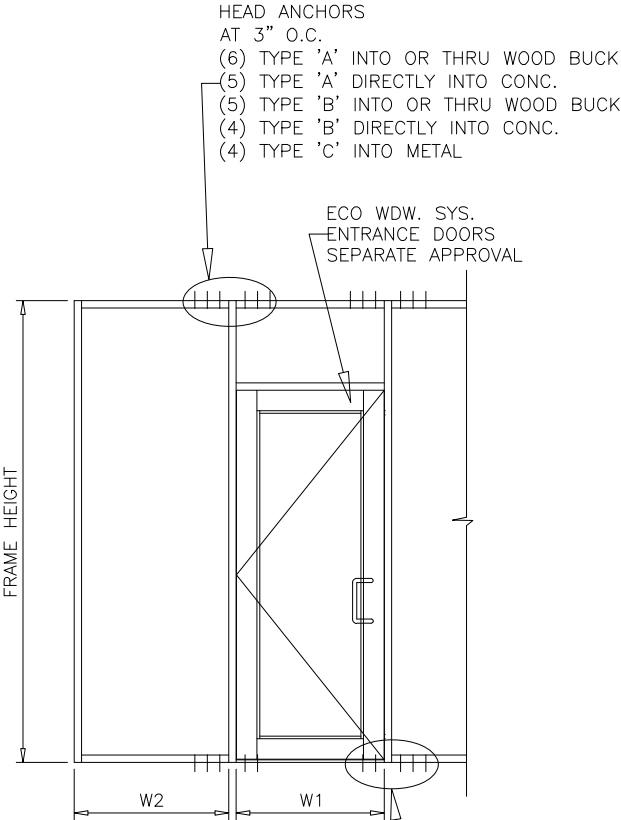
DOORMULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.		MULL "M5"		MULL "M6"	
WDTH (W)	FRAME HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
36	84	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
54		70.0	80.0	70.0	80.0
60		70.0	80.0	70.0	80.0
36	90	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
54		70.0	80.0	70.0	80.0
60		70.0	80.0	70.0	80.0
36	96	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
54		70.0	80.0	70.0	80.0
60		70.0	80.0	70.0	80.0
36	102	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
54		70.0	80.0	70.0	80.0
58		70.0	80.0	70.0	80.0
60		-	-	65.0	75.0
36	108	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
54		70.0	80.0	70.0	80.0
55		70.0	80.0	70.0	80.0
60		-	-	65.0	75.0
36	114	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
52		70.0	80.0	70.0	80.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0
36	120	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
48		70.0	80.0	70.0	80.0
49		70.0	80.0	70.0	80.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0
36	126	70.0	80.0	70.0	80.0
42		70.0	80.0	70.0	80.0
47		70.0	75.0	70.0	80.0
48		-	-	65.0	75.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0
36	132	70.0	80.0	70.0	80.0
42		70.0	73.0	70.0	80.0
45		68.1	68.1	70.0	80.0
48		-	-	65.0	75.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0
36	138	-	-	65.0	75.0
42		-	-	65.0	75.0
45		-	-	65.0	75.0
48		-	-	65.0	75.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0
36	144	-	-	65.0	75.0
42		-	-	65.0	75.0
45		-	-	65.0	75.0
48		-	-	65.0	75.0
54		-	-	65.0	75.0
60		-	-	65.0	75.0



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



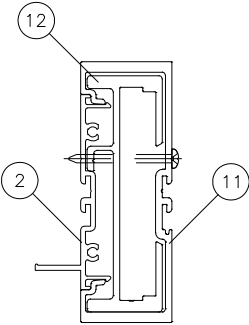
WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$



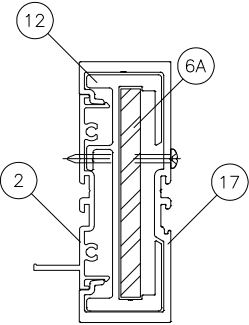
HEAD ANCHORS
AT 3" O.C.
(6) TYPE 'A' INTO OR THRU WOOD BUCK
(5) TYPE 'A' DIRECTLY INTO CONC.
(5) TYPE 'B' INTO OR THRU WOOD BUCK
(4) TYPE 'B' DIRECTLY INTO CONC.
(4) TYPE 'C' INTO METAL

ECO WDW. SYS.
ENTRANCE DOORS
SEPARATE APPROVAL

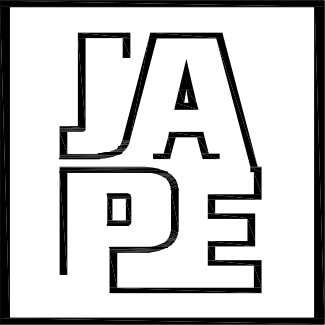
SILL ANCHORS
AT 3" O.C.
(5) TYPE 'A' OR 'B'
DIRECTLY INTO CONC.



MULLION (M5)



MULLION (M6)



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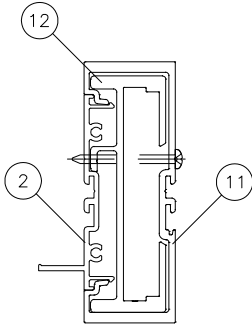
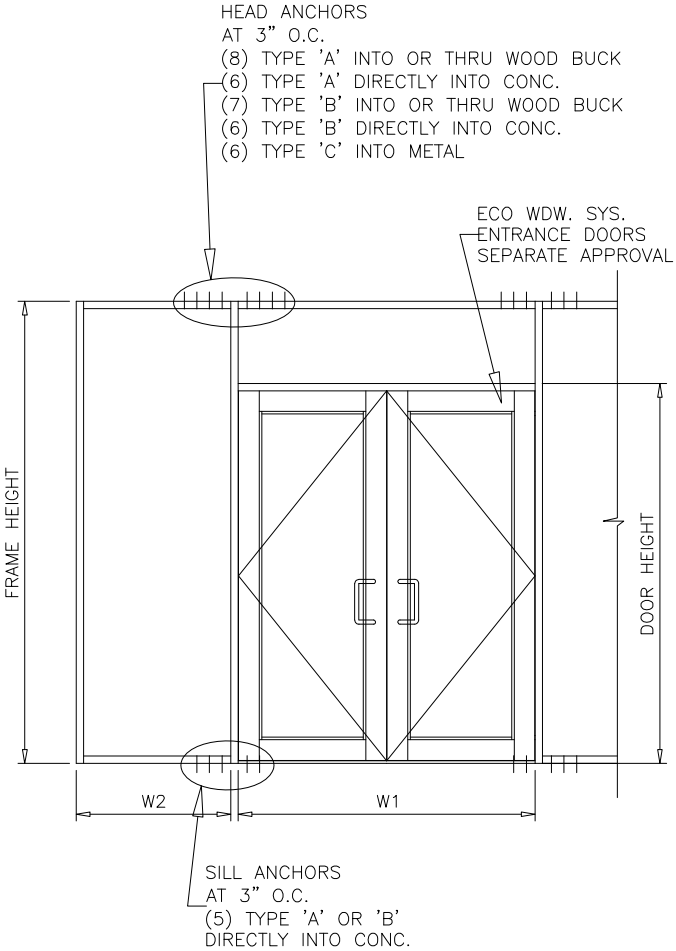
SEALED: 08-18-26

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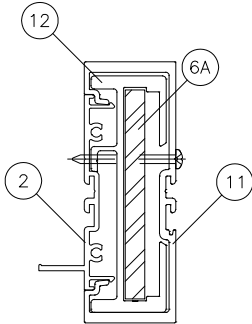
DOOR MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				ALUMINUM REINF.		ALUM. + STEEL REINF.	
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
85- 3/ 4"	30"	108"	84"	70.0	80.0	70.0	80.0
	36"			70.0	80.0	70.0	80.0
	42"			70.0	80.0	70.0	80.0
	48"			70.0	80.0	70.0	80.0
	54"			70.0	80.0	70.0	80.0
	59"			70.0	80.0	70.0	80.0
	30"	114"		70.0	80.0	70.0	80.0
	36"			70.0	80.0	70.0	80.0
	42"			70.0	80.0	70.0	80.0
	48"			70.0	77.8	70.0	80.0
	54"			70.0	74.2	70.0	80.0
	56"			70.0	73.0	70.0	80.0
	30"	120"		70.0	80.0	70.0	80.0
	36"			70.0	75.8	70.0	80.0
	42"			70.0	72.1	70.0	80.0
	48"			68.6	68.6	70.0	80.0
	53"			66.0	66.0	70.0	77.5
	30"	126"		70.0	70.5	70.0	80.0
	36"			68.5	66.5	70.0	79.3
	42"			63.0	63.0	70.0	75.4
	48"			59.8	59.8	70.0	71.9
	51"			58.3	58.3	70.0	70.3
	30"	132"		60.0	60.0	70.0	75.1
	36"			56.6	56.6	70.0	71.3
	42"			53.7	53.7	67.9	67.9
	48"			51.0	51.0	64.7	64.7
85- 3/ 4"	30"	108"	90"	60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	59"			60.0	60.0	70.0	80.0
	30"	114"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	56"			60.0	60.0	70.0	80.0
	30"	120"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	53"			60.0	60.0	70.0	79.9
	30"	126"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	77.4
	48"			60.0	60.0	70.0	73.7
	51"			60.0	60.0	70.0	72.0
	30"	132"		60.0	60.0	70.0	76.8
	36"			58.6	58.6	70.0	72.8
	42"			55.4	55.4	69.2	69.2
	48"			52.5	52.5	66.0	66.0

DOOR MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				ALUMINUM REINF.		ALUM. + STEEL REINF.	
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
85- 3/ 4"	30"	108"	96"	60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	59"			60.0	60.0	70.0	80.0
	30"	114"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	56"			60.0	60.0	70.0	80.0
	30"	120"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	53"			60.0	60.0	70.0	80.0
	30"	126"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	76.0
	51"			60.0	60.0	70.0	74.2
	30"	132"		60.0	60.0	70.0	79.1
	36"			60.0	60.0	70.0	74.9
	42"			57.6	57.6	70.0	71.1
	48"			54.5	54.5	67.7	67.7
85- 3/ 4"	30"	108"	102"	60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	59"			60.0	60.0	70.0	80.0
	30"	114"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	56"			60.0	60.0	70.0	80.0
	30"	120"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	53"			60.0	60.0	70.0	80.0
	30"	126"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	79.1
	51"			60.0	60.0	70.0	77.1
	30"	132"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	77.5
	42"			60.0	60.0	70.0	73.5
	48"			56.9	56.9	69.9	69.9

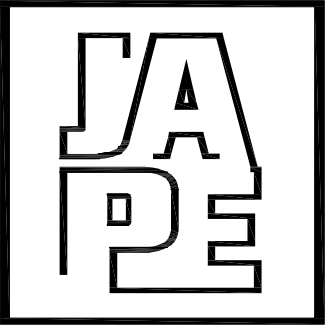
DOOR MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				ALUMINUM REINF.		ALUM. + STEEL REINF.	
WIDTH (W1)	WIDTH (W2)	FRAME HEIGHT	DOOR HEIGHT	POS. (+)	NEG. (-)	POS. (+)	NEG. (-)
85- 3/ 4"	30"	108"	108"	60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	59"			60.0	60.0	70.0	80.0
	30"	114"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	54"			60.0	60.0	70.0	80.0
	56"			60.0	60.0	70.0	80.0
	30"	120"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	53"			60.0	60.0	70.0	80.0
	30"	126"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	80.0
	48"			60.0	60.0	70.0	80.0
	51"			60.0	60.0	70.0	80.0
	30"	132"		60.0	60.0	70.0	80.0
	36"			60.0	60.0	70.0	80.0
	42"			60.0	60.0	70.0	76.6
	48"			59.5	59.5	70.0	72.6



DOOR MULLION
ALUMINUM REINF.



DOOR MULLION
ALUM. + STEEL REINF.



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REVISION

No.	DATE	BY	DESCRIPTION

Date: 08-14-26

Scale: N/A

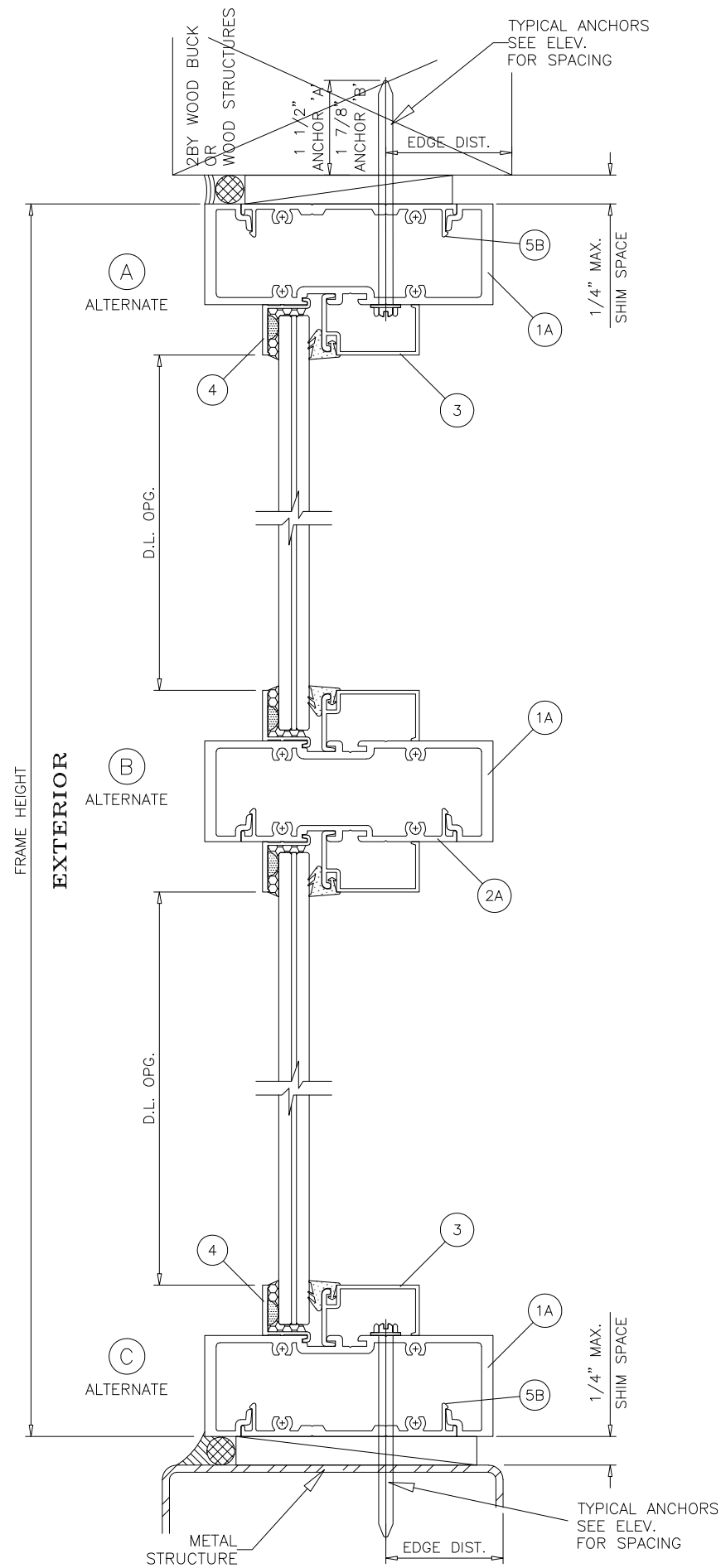
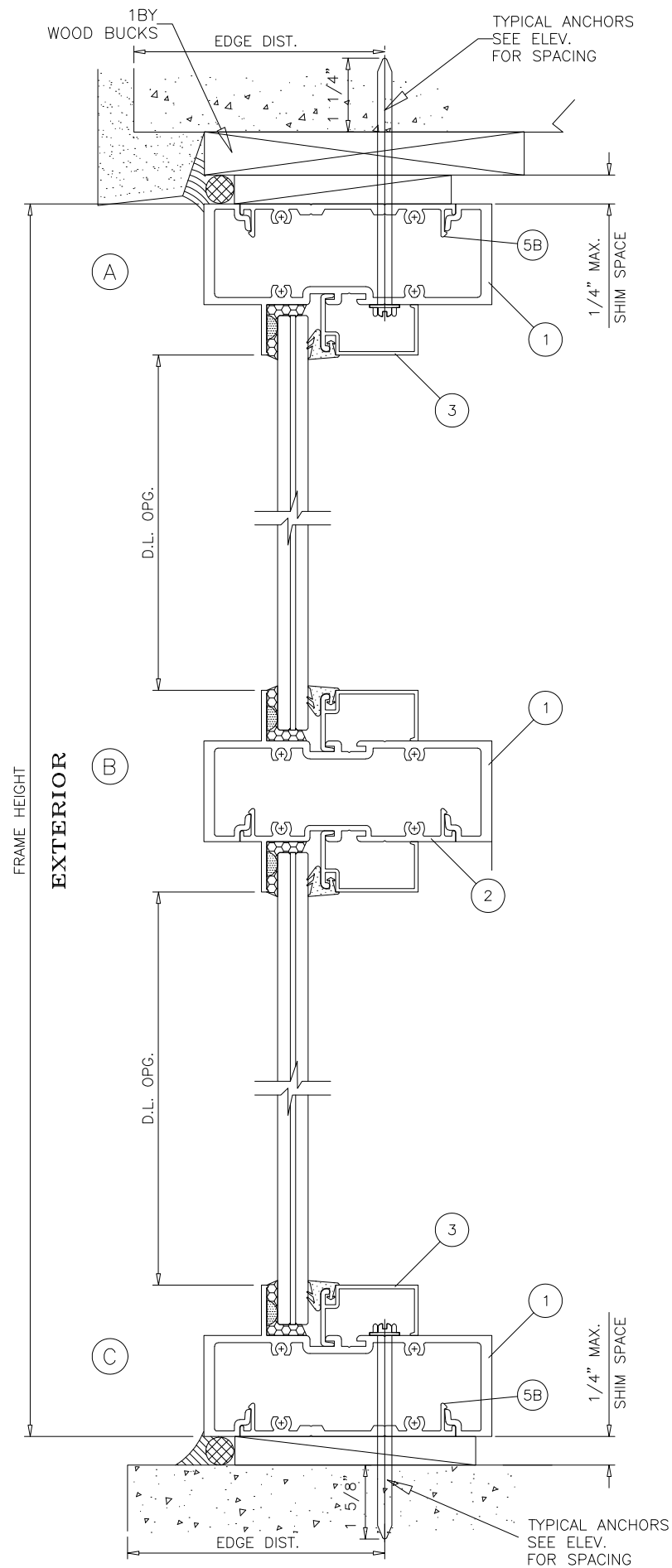
Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254





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

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'

1/4" DIA ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY WOOD BUCKS INTO CONCRETE
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR MASONRY
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'

5/16" DIA ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 INTO WOOD STRUCTURES
 1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS
 1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
 1-5/8" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 3-1/8" MIN.
 INTO WOOD STRUCTURE = 1-1/4" MIN.

TYPE 'C'

#14 SMS OR SELF DRILLING SCREWS ST/ST (GRADE 2 CRS)

INTO FBC APPROVED MULLIONS
 OR

INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE

STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)

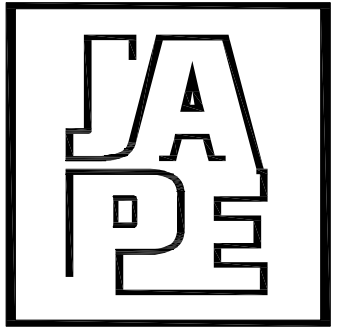
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO METAL STRUCTURE = 1/2" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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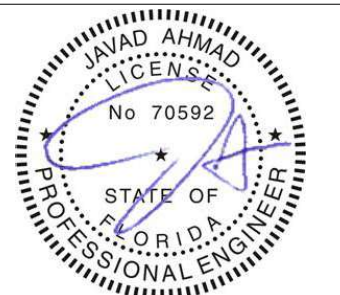


ECO WINDOW SYSTEMS, LLC.
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 TEL. (305) 885-5299 FAX. (305) 885-5902

REVISION

No.	DATE	BY	DESCRIPTION
Date:	08-14-26		
Scale:	N/A		
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Check by:	JA		
Drawing no.	JA-1518-26		

Eng: JAVAD AHMAD, PE
 CIVIL FLA. PE # 70592 - C.A.N.34254

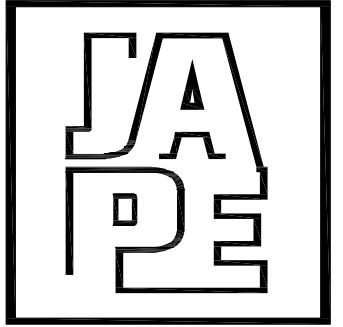
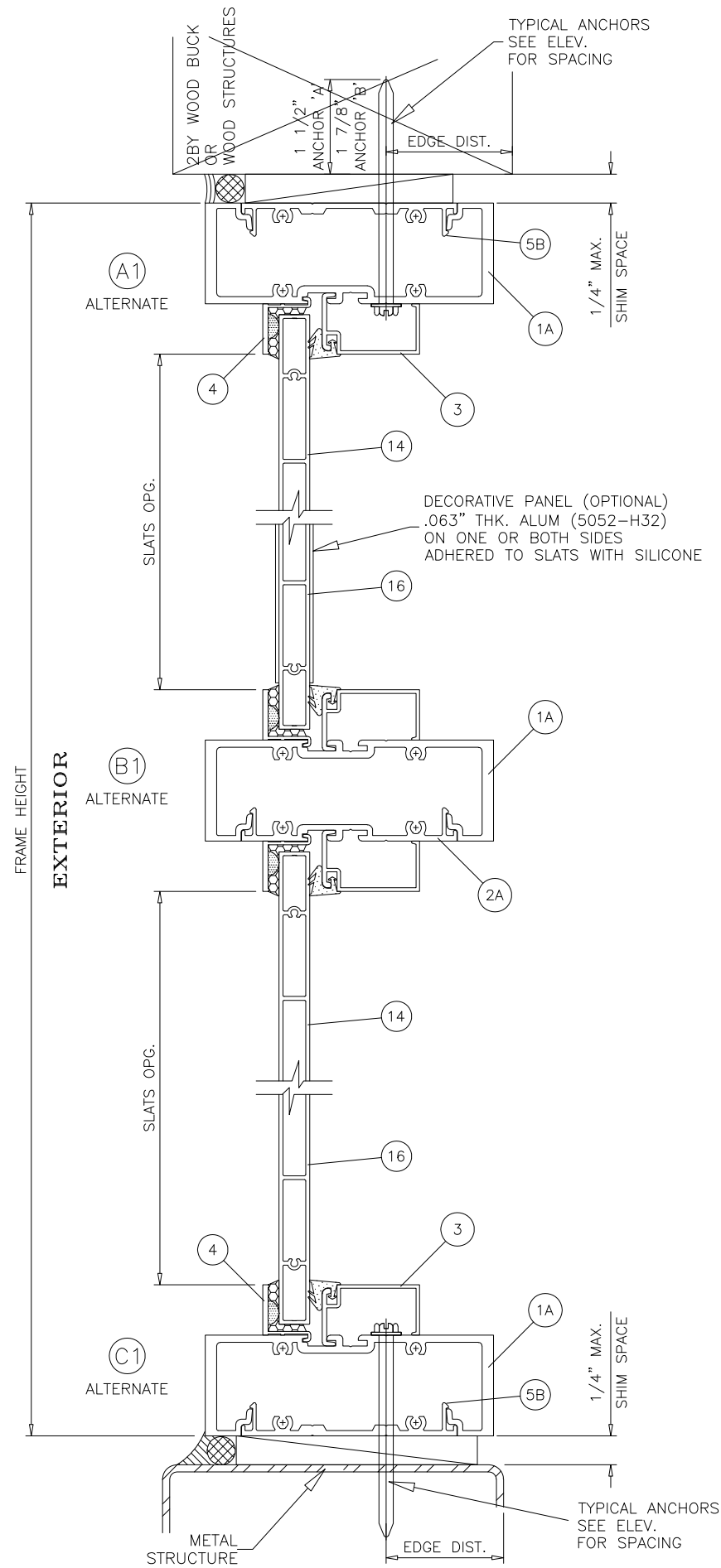
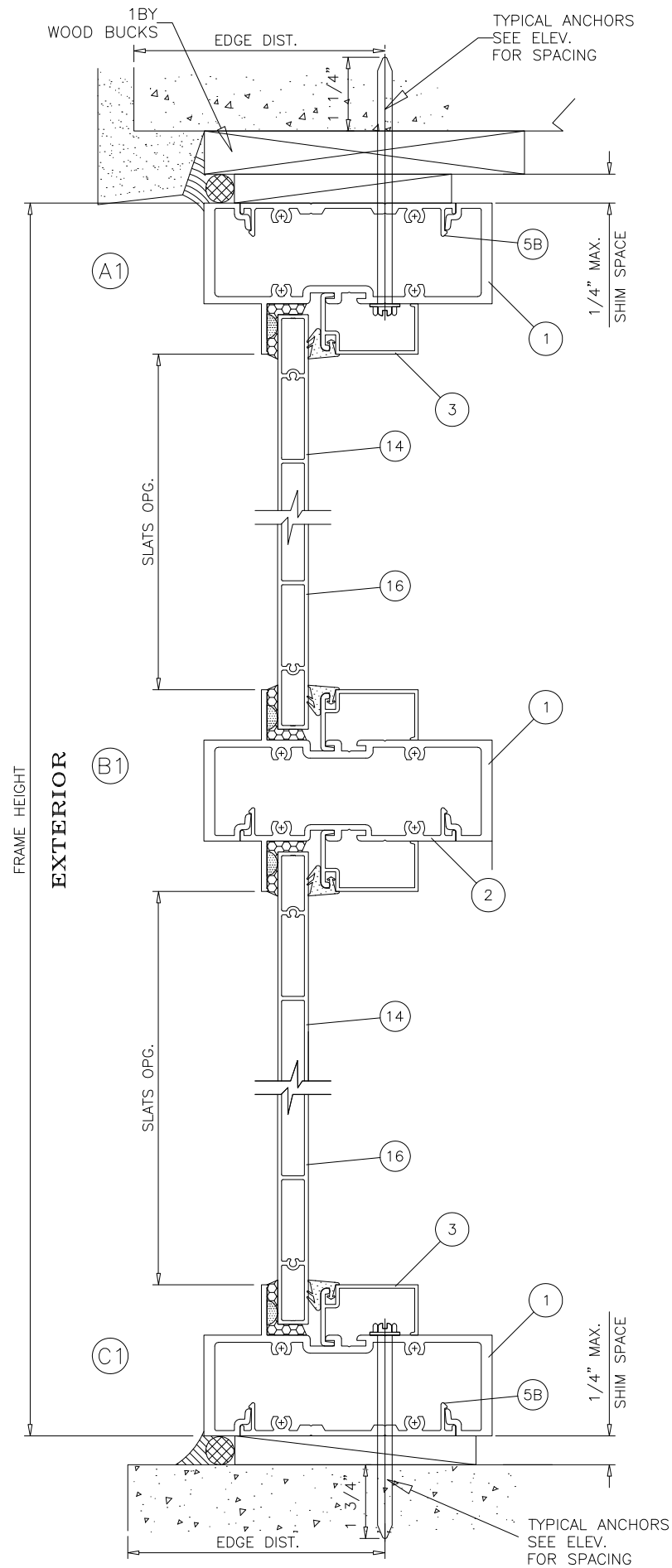


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CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING
ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

PROJECT :

**SERIES 400
ALUMINUM WINDOW WALL
SYSTEM**

(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



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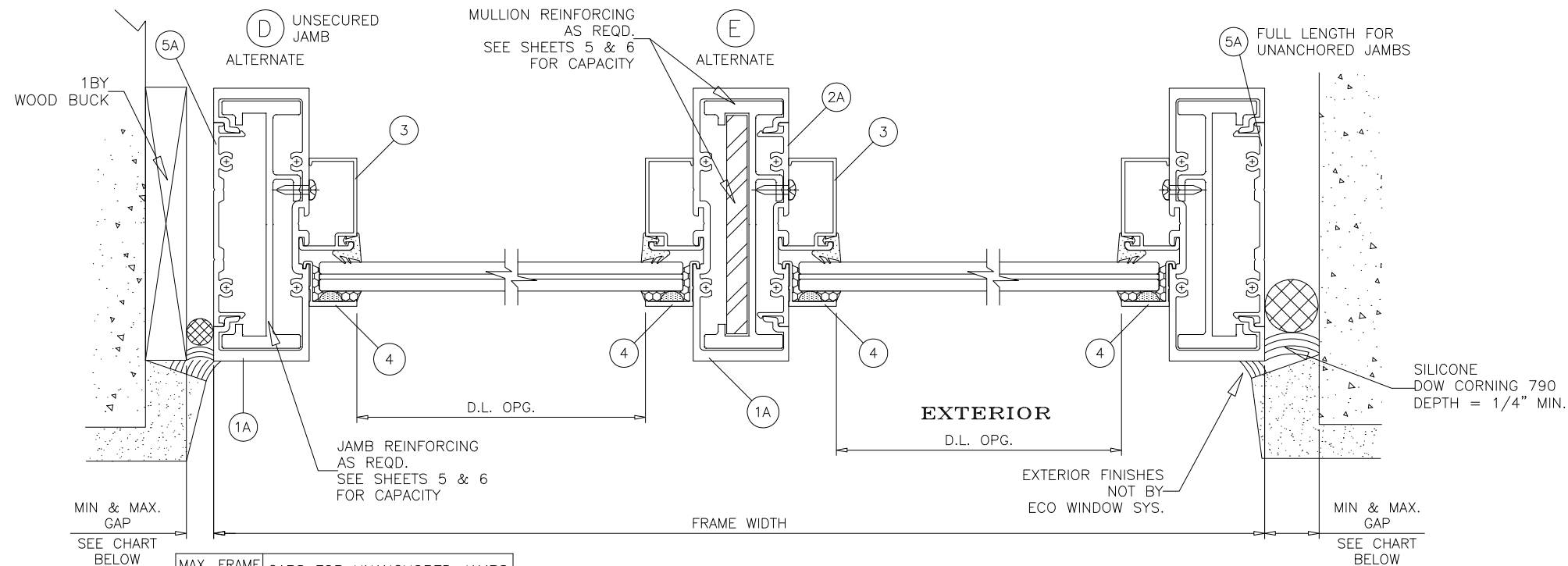
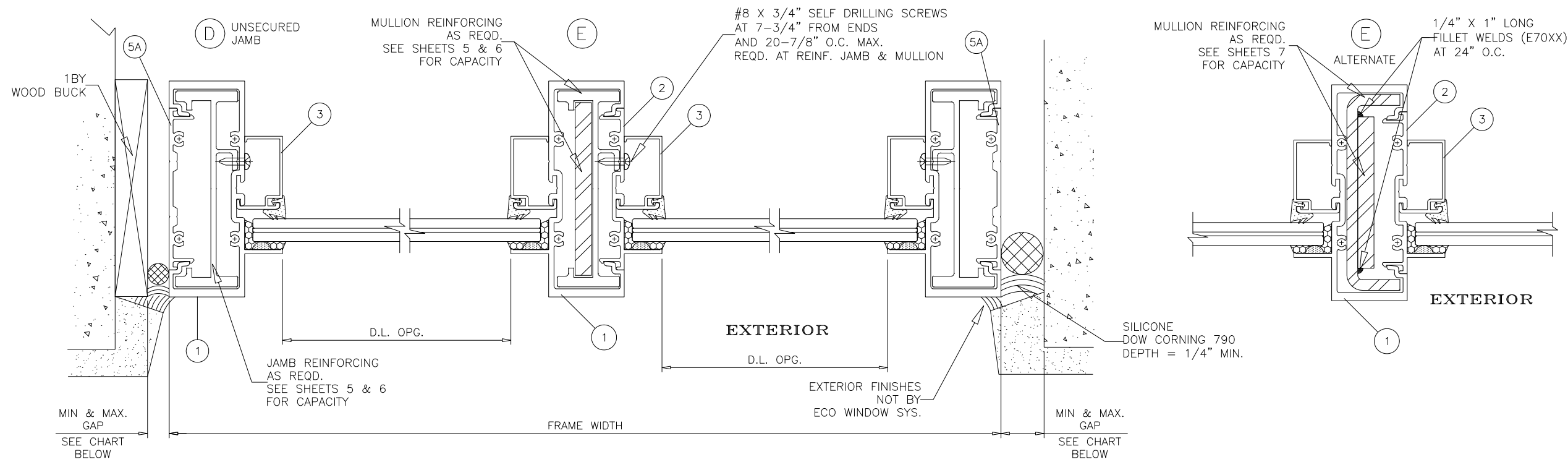


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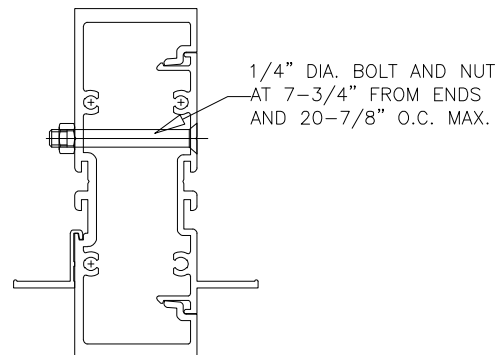


MAX. FRAME HEIGHT UP TO	GAPS FOR UNANCHORED JAMBS	
	MIN.	MAX.
120"	1/4"	1"
132"	3/8"	1"

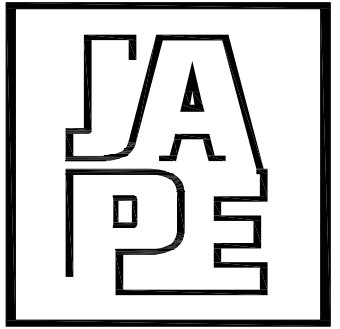
NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATIBILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.
REFER TO SHEETS 6 THRU 10 FOR SELECTION OF MULLION/JAMB WITH REINFORCED & UNREINFORCED FRAMES.



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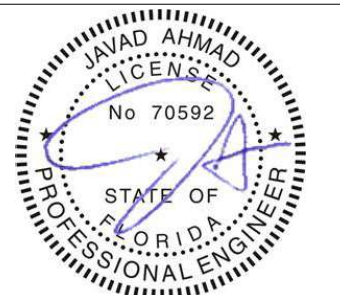


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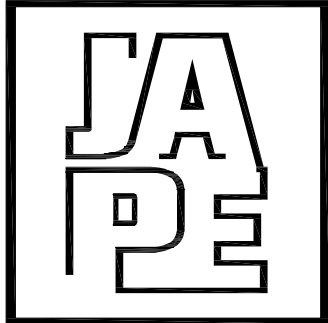
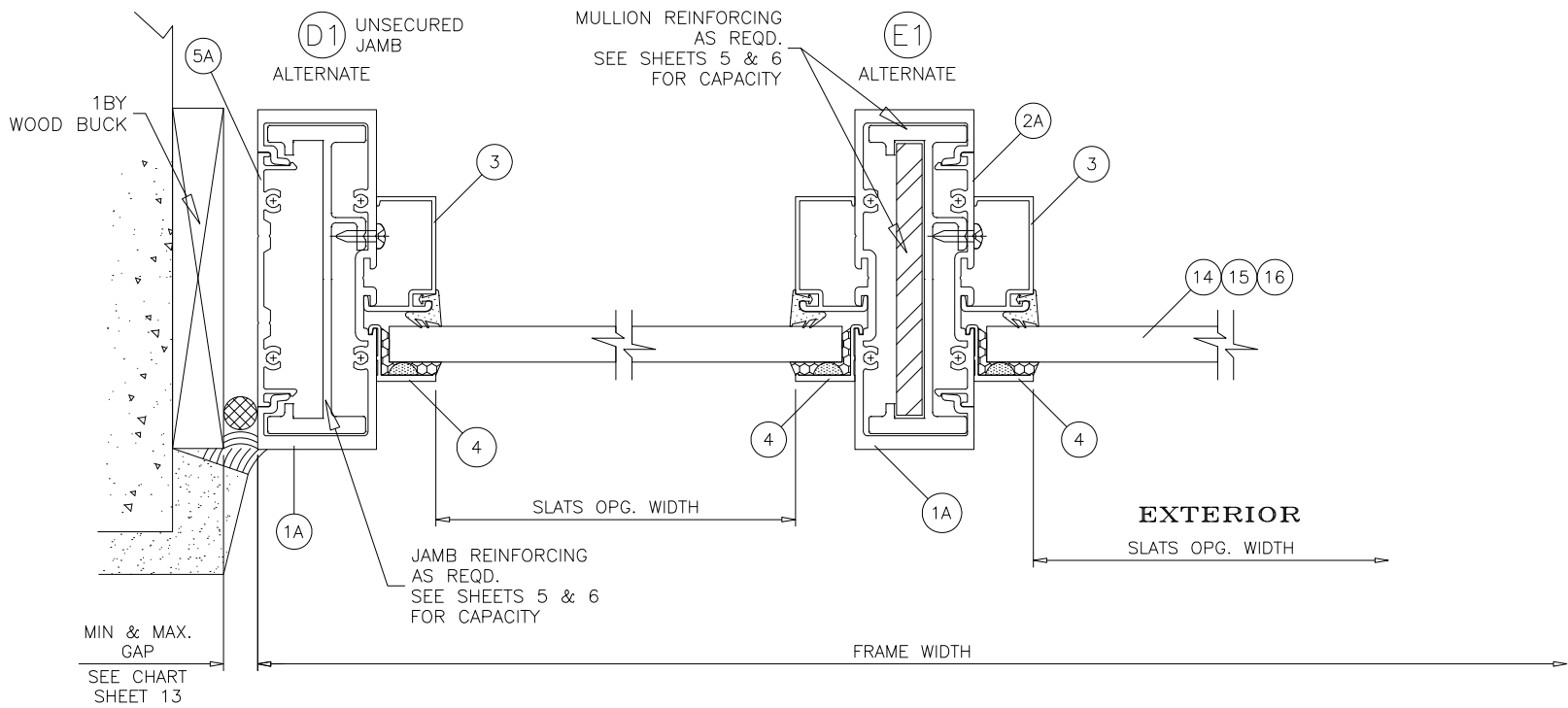
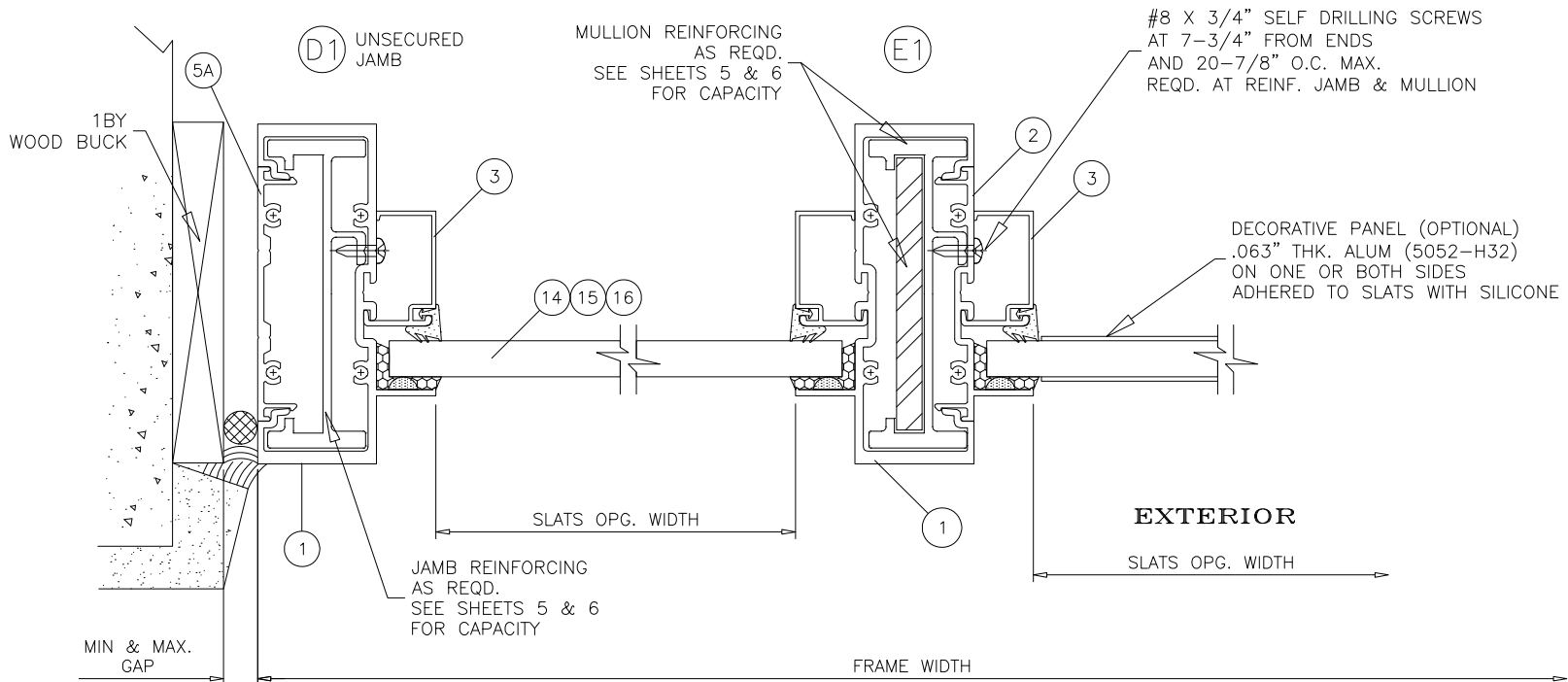
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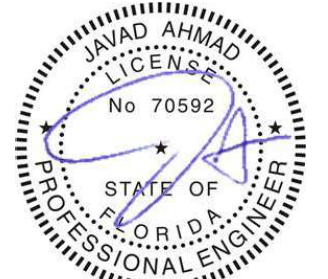
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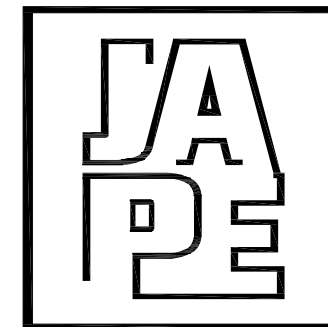
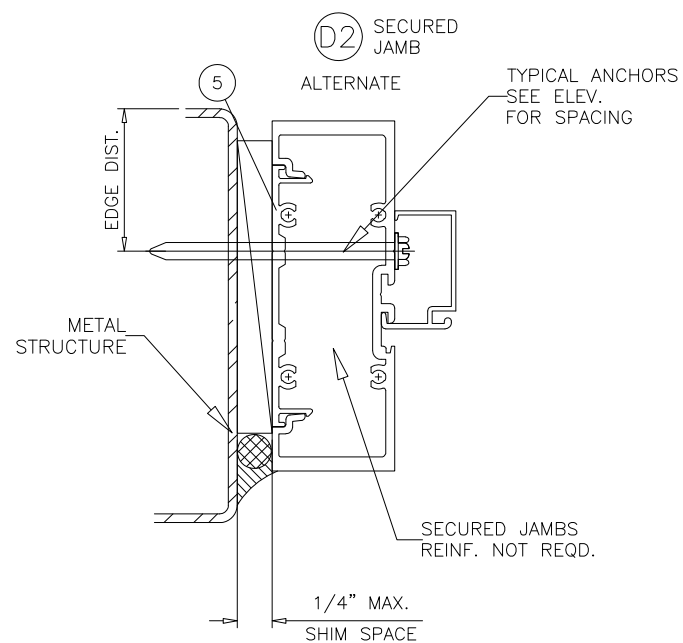
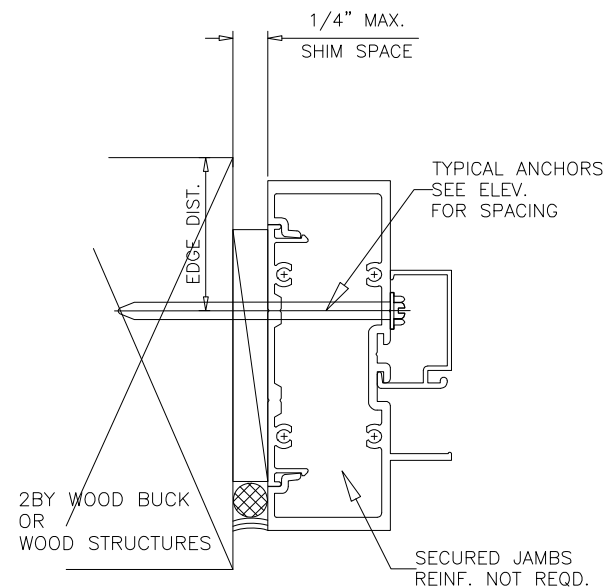
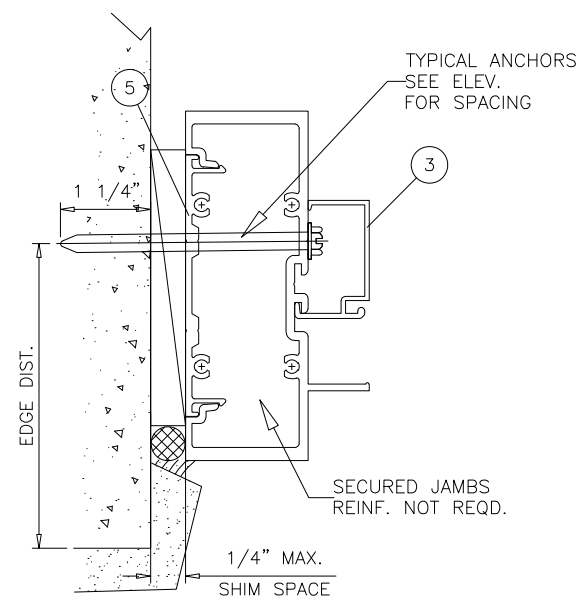
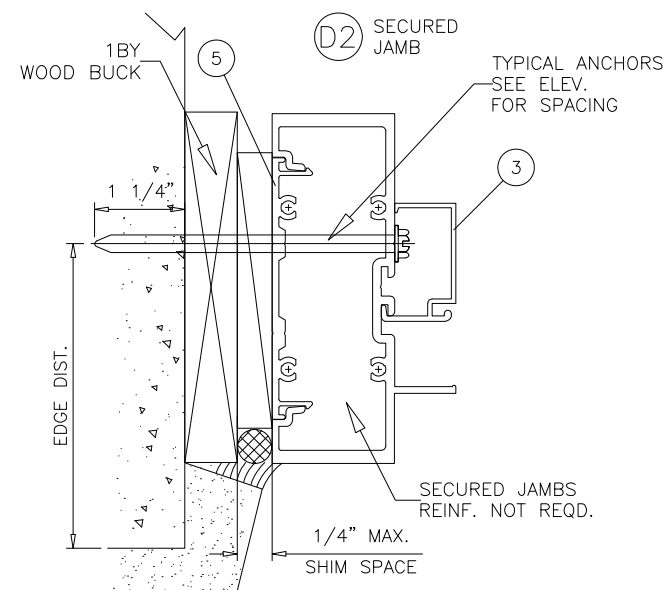


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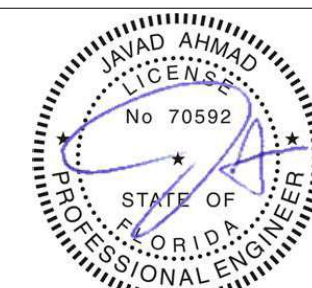


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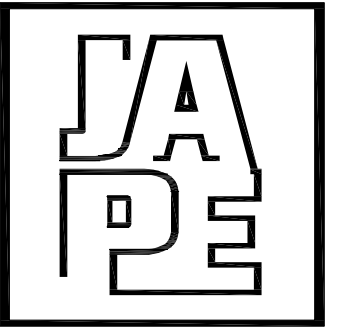
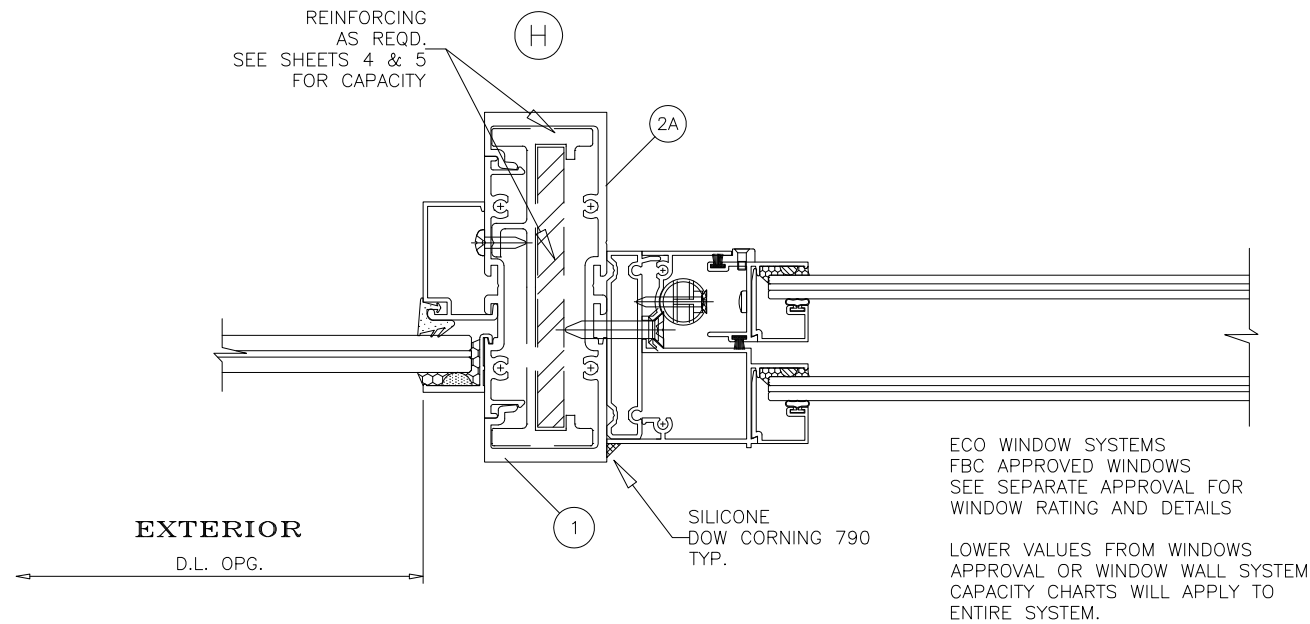
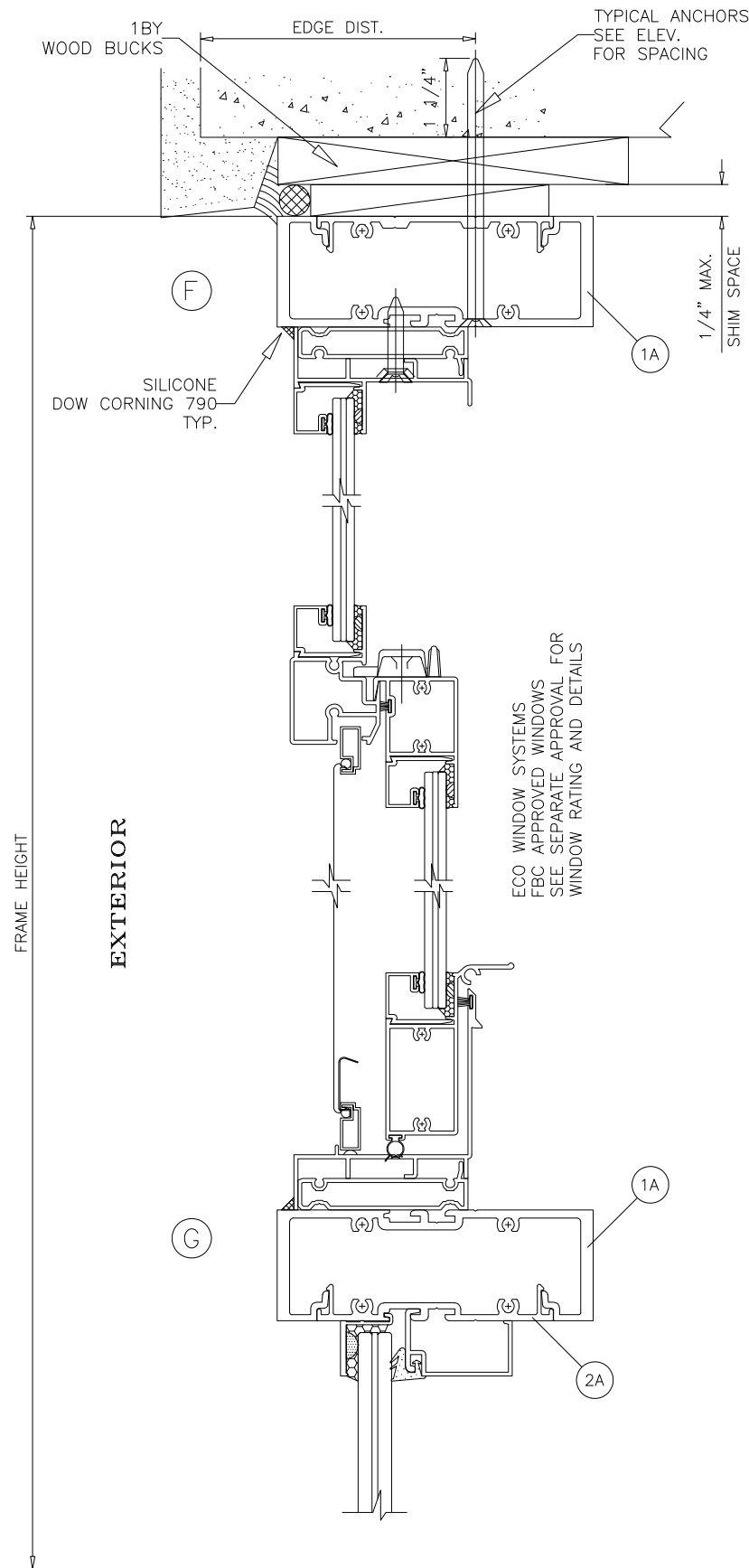


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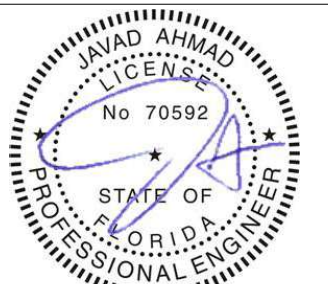


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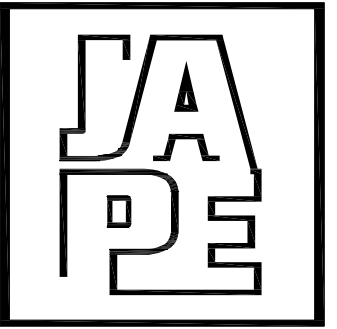
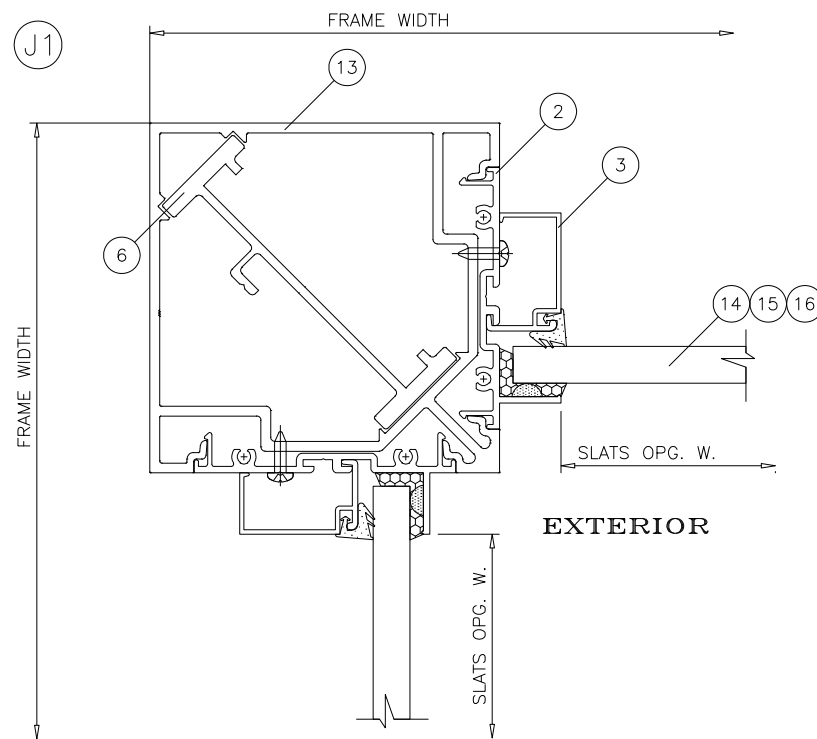
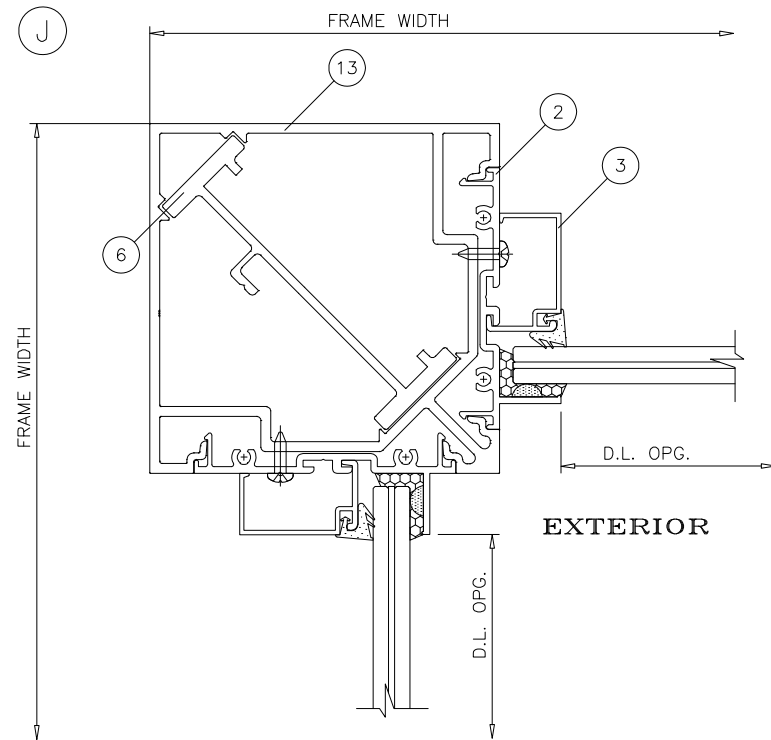
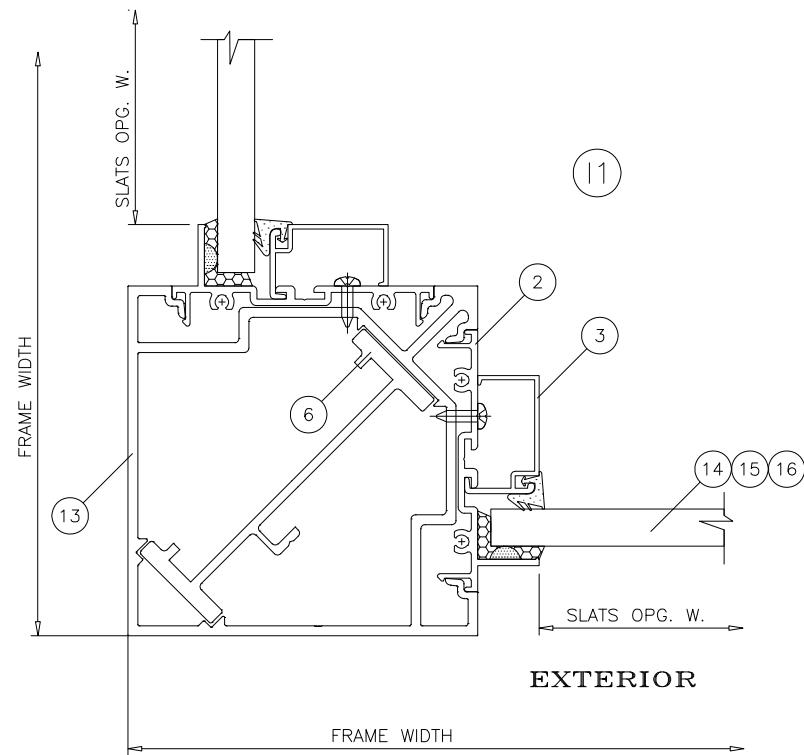
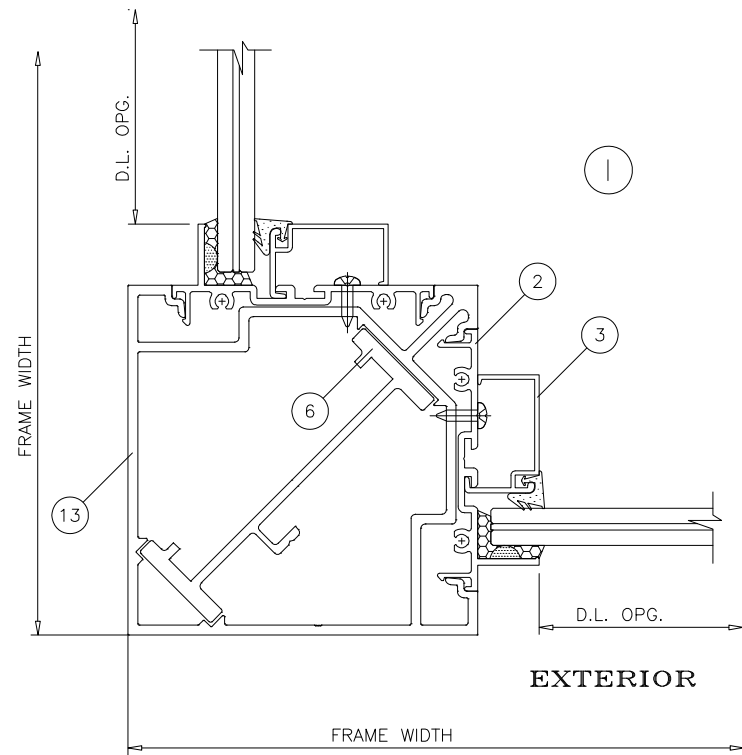


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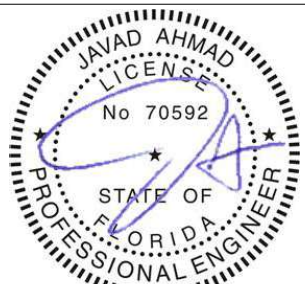


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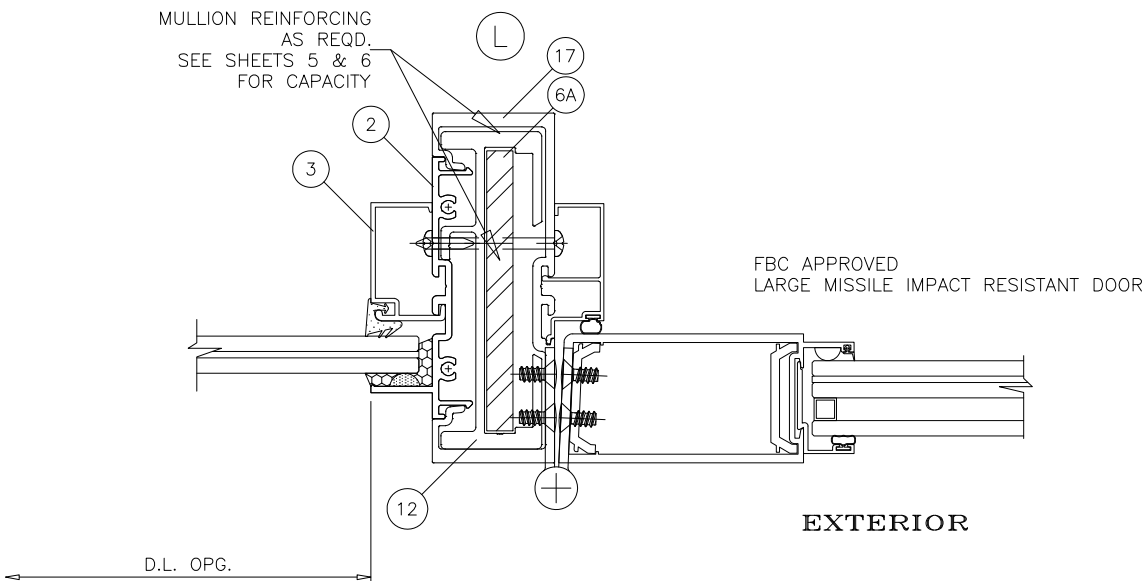
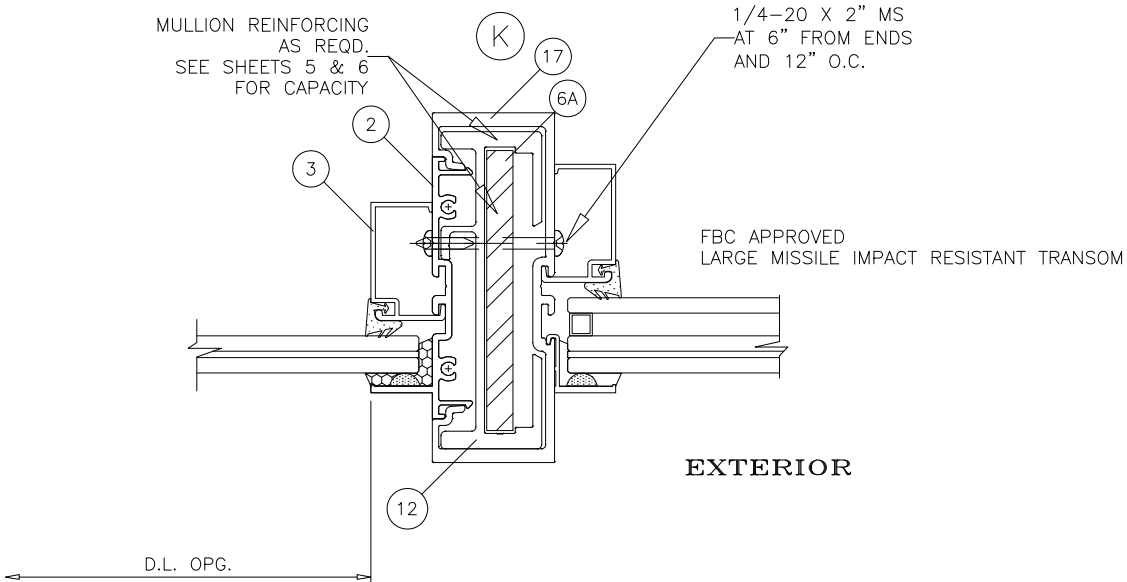


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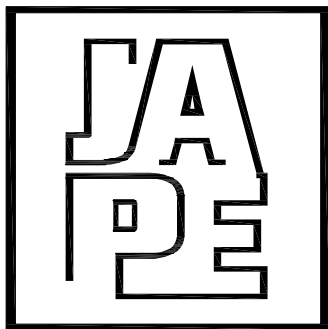
17

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SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.

LOWER VALUES FROM DOORS APPROVAL OR WINDOW WALL SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



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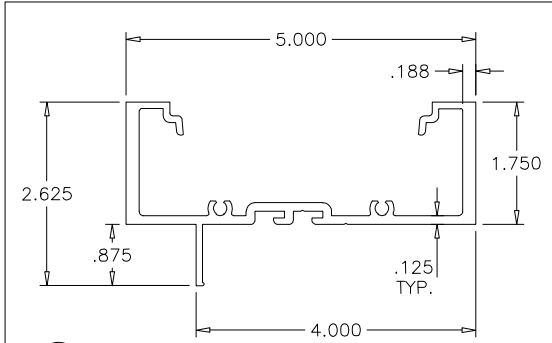
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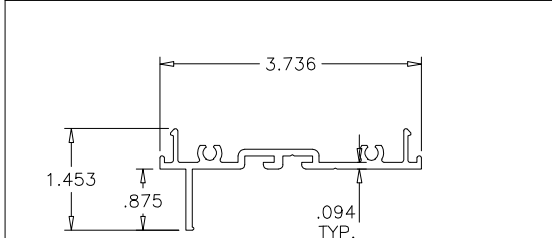
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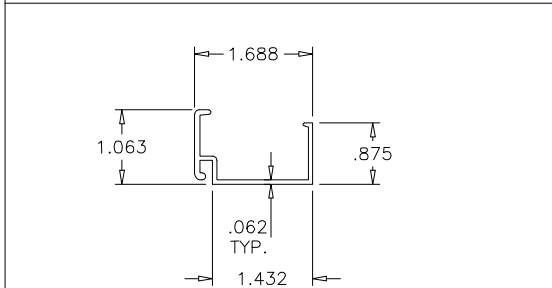
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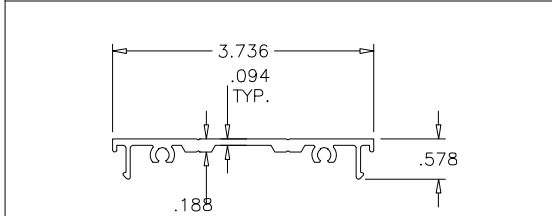
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FRAME HEAD/SILL/JAMB/MULLION



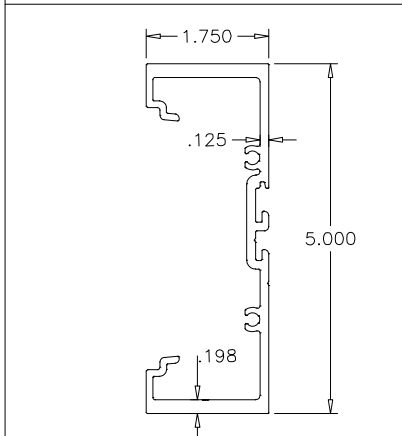
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SNAP IN MATE



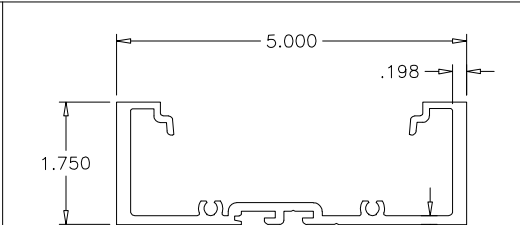
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GLAZING BEAD



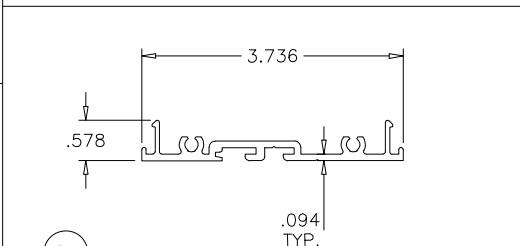
5 5A 5B
SHEAR CLIP



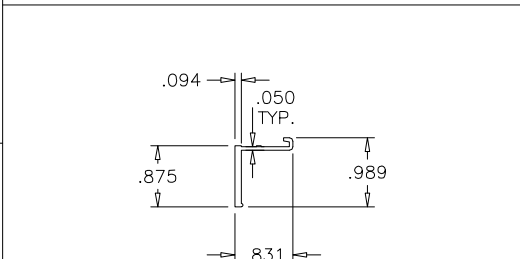
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DOOR TRANSOM



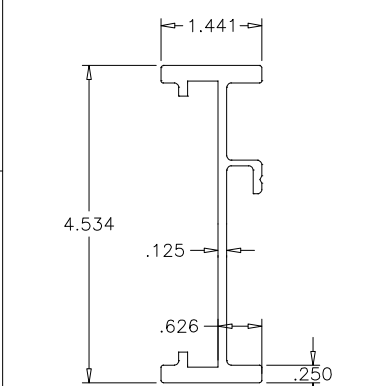
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ALT. FRAME HEAD/SILL/JAMB/MULLION



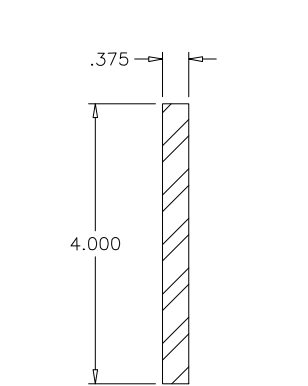
2A
ALT. SNAP IN MATE



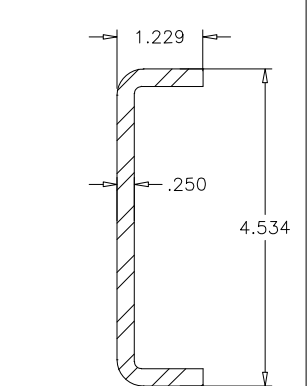
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FRAME INSERT



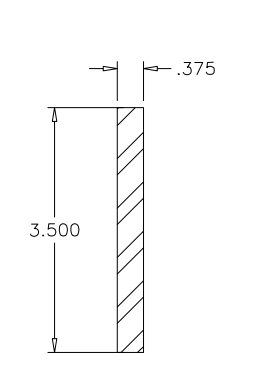
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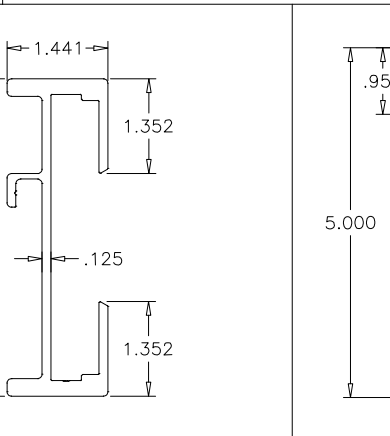
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STIFFENER BAR



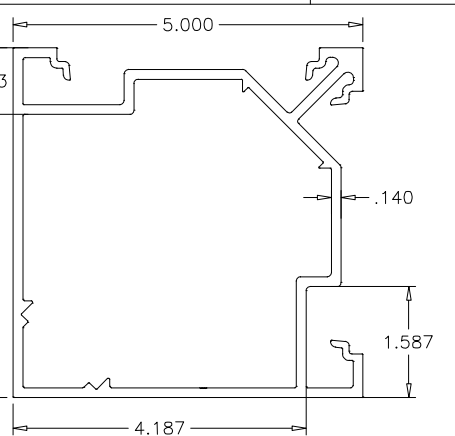
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REINF. CHANNEL



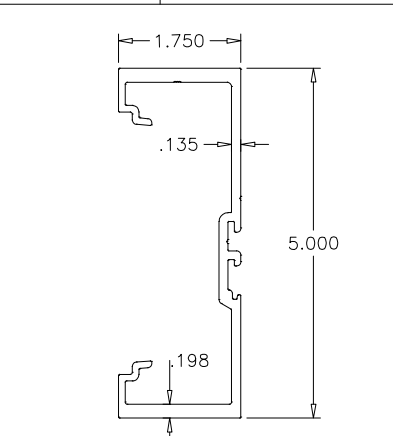
6C
REINF. BAR



12
DOOR MULLION STIFFENER



13
CORNER MULLION

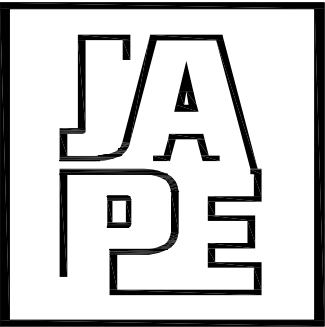


17
DOOR MULLION

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	UW-401	AS REQD.	FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
1A	UW-407	AS REQD.	ALT. FRAME HEAD/SILL/JAMB/MULLION	6063-T6	-
2	UW-402	AS REQD.	SNAP-IN MATE	6063-T6	-
2A	UW-402	AS REQD.	ALT. SNAP-IN MATE	6063-T6	-
3	UW-404	AS REQD.	GLAZING BEAD	6063-T6	-
4	UW-408	AS REQD.	FRAME INSERT	6063-T6	-
5	UW-403	AS REQD.	SHEAR CLIP, 3-3/4" LONG AT JAMB ANCHORS	6063-T6	-
5A	UW-403	AS REQD.	SHEAR CLIP, FULL LENGTH	6063-T6	-
5B	UW-403	AS REQD.	SHEAR CLIP, LENGTH VARIES TO COVER ANCHOR SPACINGS	6063-T6	-
6	UW-408	AS REQD.	STIFFENER INSERT	6063-T6	-
6A	-	AS REQD.	STIFFENER BAR	GALV. STEEL	-
6B	-	AS REQD.	REINF. CHANNEL	GALV. STEEL	-
6C	-	AS REQD.	REINF. BAR	GALV. STEEL	-
7	UW-406	AS REQD.	GLAZING GASKET	NEOPRENE	DUROMETER 55±5 SHORE A
8	#12 X 1-1/4"	4/ CORNER	FRAME ASSEMBLY SCREWS	-	PH SMS
9	-	2/ LITE	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 2")	NEOPRENE	3/16" X 1/2" X 2" LONG
10	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
11	UW-407	AS REQD.	DOOR TRANSOM	6063-T6	-
12	E813	AS REQD.	DOOR MULLION INSERT	6063-T6	-
13	UW-411	AS REQD.	CORNER MULLION	6063-T6	-
14	EK 2	AS REQD.	TOP SLAT	6063-T6	-
15	EK 5	AS REQD.	INTERMEDIATE SLAT	6063-T6	-
16	EK 3	AS REQD.	BOTTOM SLAT	6063-T6	-
17	UW-812	AS REQD.	DOOR MULLION	6063-T6	-

SEALANTS:

ALL FRAME JOINTS AND SEAMS SEALED WITH SCHNEE-MOREHEAD SM5504 ACRYL-R SEAM SEALER.



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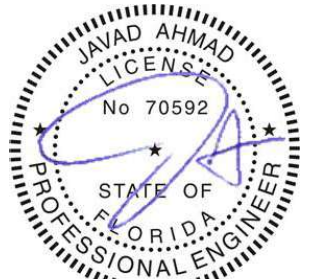


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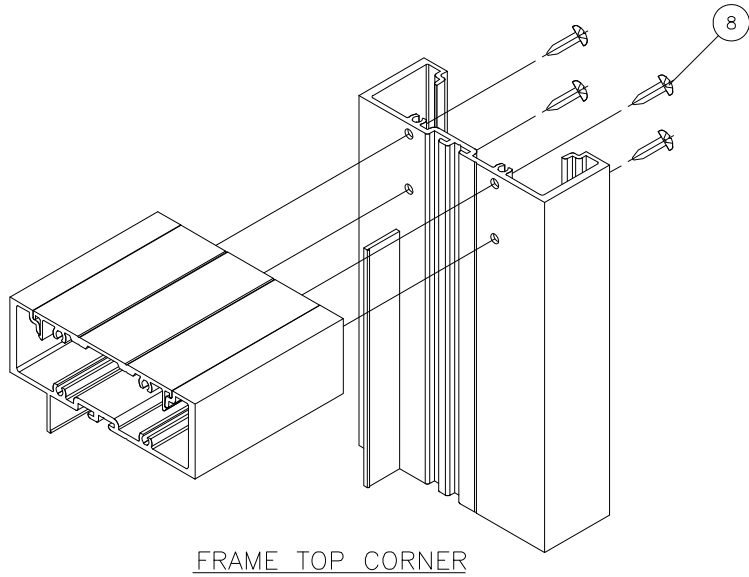


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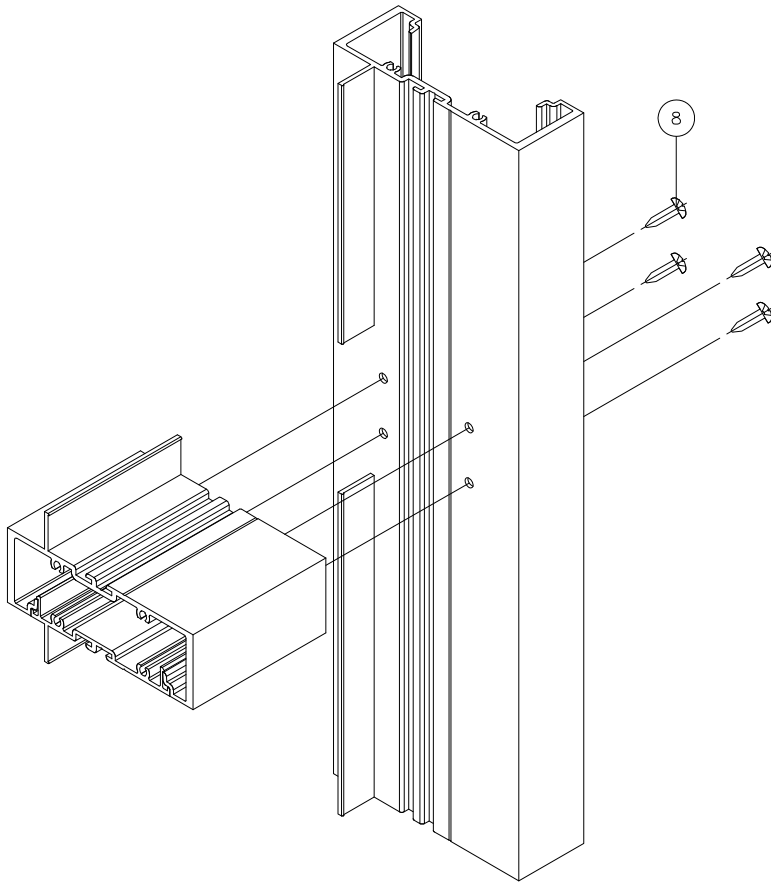
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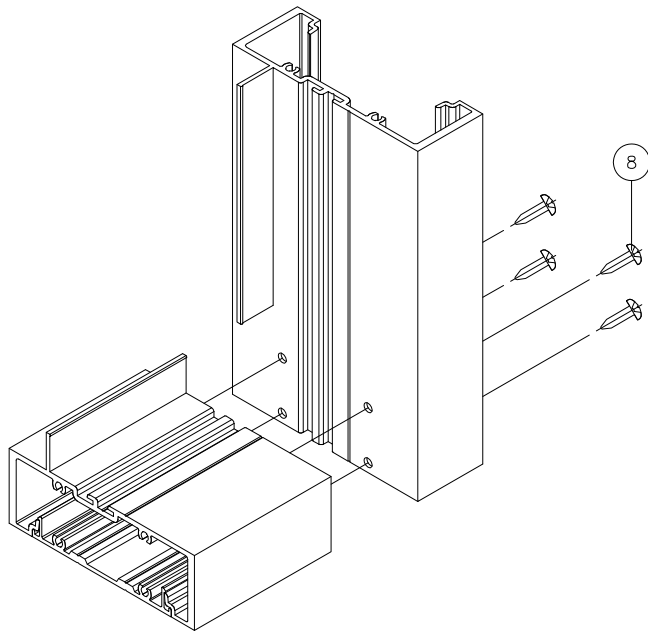
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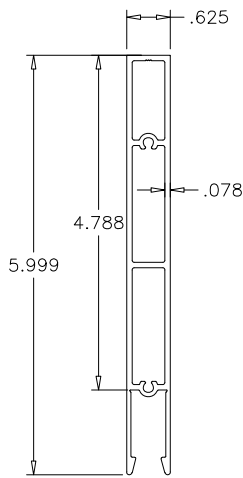
FRAME TOP CORNER



HORIZONTAL CORNER

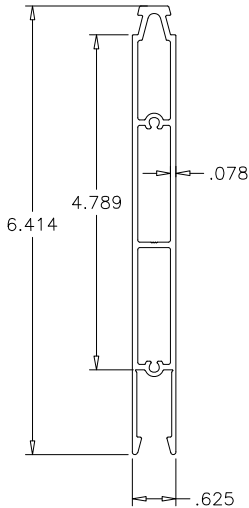


FRAME BOTTOM CORNER



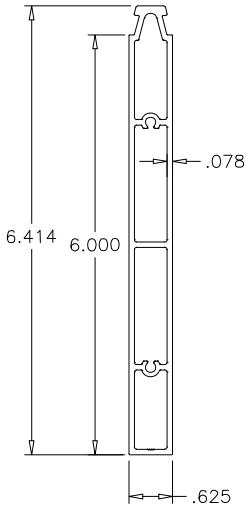
14

TOP SLAT



15

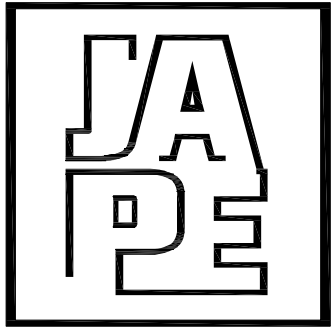
INTERMEDIATE SLAT



16

BOTTOM SLAT

FL# 21632.1



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SERIES 400
ALUMINUM WINDOW WALL
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(L.M.I.)
LARGE MISSILE IMPACT RATED

CLIENT :



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902

REVISION

No.	DATE	BY	DESCRIPTION

Date: 08-14-26

Scale: N/A

Drawn by: JM

Check by: JA

Drawing no. JA-1518-26

Eng: JAVAD AHMAD, PE
CIVIL FLA. PE # 70592 - C.A.N.34254



SEALED: 08-18-26

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OF 20