

TYPICAL ELEVATIONS

US ALUMINUM SERIES 'DHS-500'
ALUMINUM WINDOW WALL STOREFRONT SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED LARGE MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM STOREFRONT OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM. CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) 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, 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 2017 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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.

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

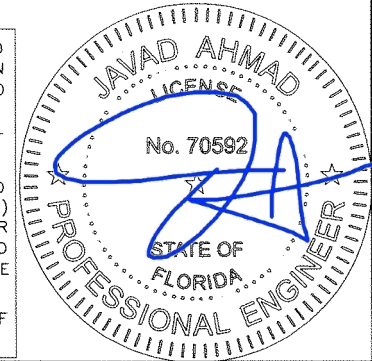
INSTRUCTIONS:

- USE CHARTS AS FOLLOWS.
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
 - STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
 - STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 FOR STOREFRONT MULLION AND SHEETS 5 & 6 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
 - STEP 4** USING CHARTS ON SHEET 4 FOR STOREFRONT MULLION AND CHARTS ON SHEETS 5 & 6 FOR DOOR MULLION 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.

D.L.O. HEIGHT = FRAME HEIGHT - 5.5" (WINDOW WALL SYS. W/O HORIZONTALS)
D.L.O. WIDTH = FRAME WIDTH - 5.5" (SINGLE PANEL)
MULLION CL TO CL SPACING - 3.75" (MULTIPLE PANELS)

LAMINATED GLASS
LAM. INSUL. GLASS
LARGE MISSILE IMPACT

FL #18363



- A- 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.
- B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- C- 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. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 TEL. (305) 262-6978
FAX. (305) 264-8100

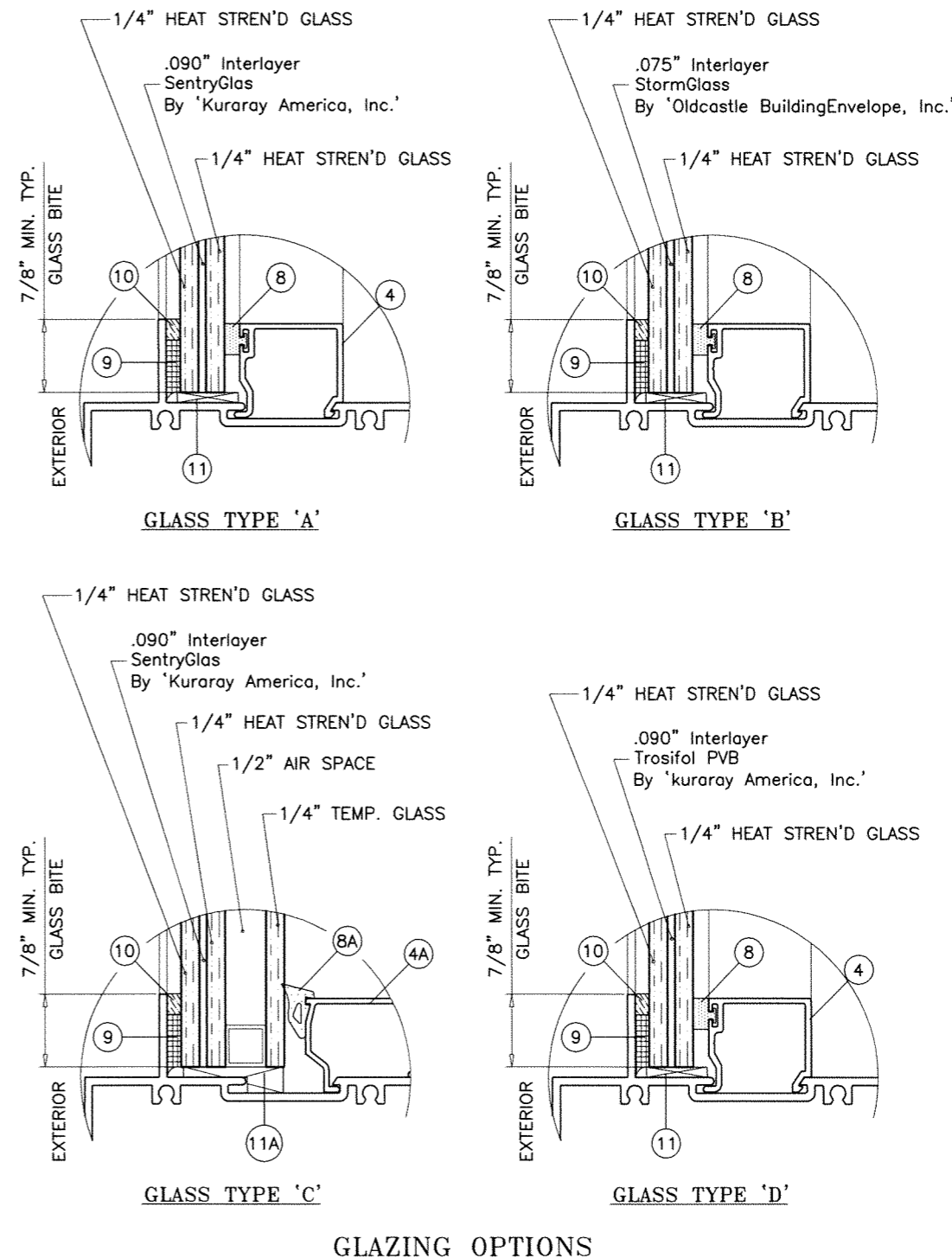
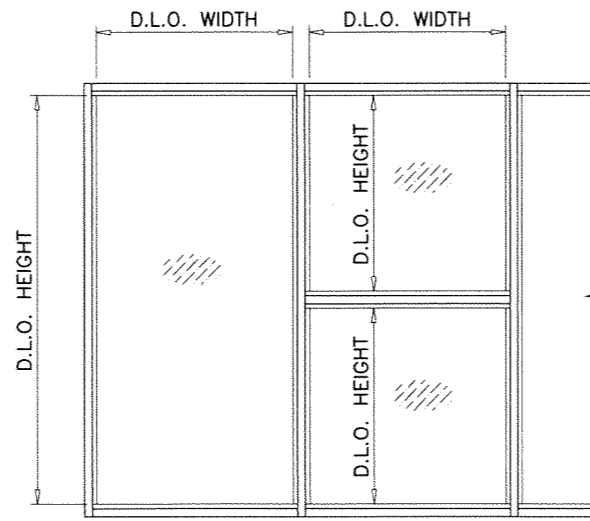
US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

revisions:	no	date	by	description
	A	02.13.18		UPDATED TO 2017 FBC
date:	08-26-15	scale:	1/2" = 1'-0"	
dr. by:	TARIO	chk. by:		
drawing no.	W15-50			
sheet	1 of 11			

STORE\02-27DD

GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
28"	60"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0
60"	100.0	130.0	120.0	130.0	80.0	80.0	
28"	66"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0
60"	100.0	130.0	120.0	130.0	80.0	80.0	
28"	72"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0
60"	100.0	130.0	120.0	130.0	80.0	80.0	
28"	78"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0
60"	100.0	130.0	120.0	130.0	80.0	80.0	
28"	84"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0
60"	100.0	130.0	120.0	130.0	80.0	80.0	
28"	90"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	130.0	120.0	130.0	80.0	80.0
56"		100.0	130.0	120.0	130.0	80.0	80.0

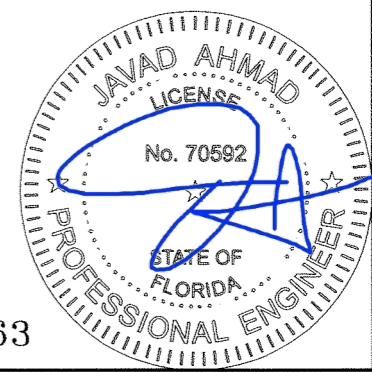
GLASS LOAD CAPACITY - PSF							
NOMINAL DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPE 'C'		GLASS TYPE 'D'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
28"	96"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	130.0	120.0	130.0	80.0	80.0
52"		100.0	127.8	120.0	130.0	80.0	80.0
56"		100.0	127.8	120.0	130.0	80.0	80.0
60"	100.0	127.8	120.0	130.0	80.0	80.0	
28"	102"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	129.4	120.0	130.0	80.0	80.0
52"		100.0	129.4	120.0	130.0	80.0	80.0
56"		100.0	129.4	120.0	130.0	80.0	80.0
60"	100.0	129.4	120.0	130.0	80.0	80.0	
28"	108"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	129.4	120.0	130.0	80.0	80.0
52"		100.0	129.4	120.0	130.0	80.0	80.0
56"		100.0	129.4	120.0	130.0	80.0	80.0
60"	100.0	129.4	120.0	130.0	80.0	80.0	
28"	114"	100.0	130.0	120.0	130.0	80.0	80.0
32"		100.0	130.0	120.0	130.0	80.0	80.0
36"		100.0	130.0	120.0	130.0	80.0	80.0
40"		100.0	130.0	120.0	130.0	80.0	80.0
44"		100.0	130.0	120.0	130.0	80.0	80.0
48"		100.0	129.4	120.0	130.0	80.0	80.0
52"		100.0	129.4	120.0	130.0	80.0	80.0
56"		100.0	129.4	120.0	130.0	80.0	80.0
60"	100.0	129.4	120.0	130.0	80.0	80.0	
44-1/4"	114-1/2"	100.0	130.0	120.0	130.0	80.0	80.0



GLAZING OPTIONS

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

FL #18363



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revisions:	no	date	description

date: 08-26-15
scale: 1/2" = 1"
dr. by: TARIO
chk. by:

drawing no.
W15-50

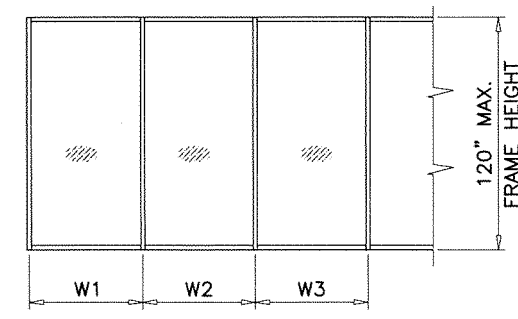
sheet 2 of 11

JAMB & MULLION LOAD CAPACITY - PSF
JAMB & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1'	MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32"	72"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	100.0	130.0	130.0	130.0	130.0
44"		80.0	100.0	130.0	130.0	130.0	130.0
48"		80.0	100.0	130.0	130.0	130.0	130.0
52"		80.0	100.0	130.0	130.0	130.0	130.0
56"		80.0	100.0	130.0	130.0	130.0	130.0
60"	80.0	100.0	130.0	130.0	130.0	130.0	
32"	78"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	100.0	130.0	130.0	130.0	130.0
44"		80.0	100.0	130.0	130.0	130.0	130.0
48"		80.0	100.0	130.0	130.0	130.0	130.0
52"		80.0	100.0	130.0	130.0	130.0	130.0
56"		80.0	99.0	130.0	130.0	130.0	130.0
60"	80.0	95.4	130.0	130.0	130.0	130.0	
32"	84"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	100.0	130.0	130.0	130.0	130.0
44"		80.0	98.3	130.0	130.0	130.0	130.0
48"		80.0	91.9	130.0	130.0	130.0	130.0
52"		80.0	86.7	130.0	130.0	130.0	130.0
56"		80.0	82.4	130.0	130.0	130.0	130.0
60"	80.0	79.0	130.0	130.0	130.0	130.0	
32"	90"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	99.9	130.0	130.0	130.0	130.0
40"		80.0	91.1	130.0	130.0	130.0	130.0
44"		80.0	84.0	130.0	130.0	130.0	130.0
48"		80.0	78.3	130.0	130.0	130.0	130.0
52"		80.0	73.6	130.0	130.0	130.0	130.0
56"		80.0	69.8	130.0	130.0	130.0	130.0
60"	80.0	66.6	130.0	130.0	130.0	130.0	
32"	96"	80.0	96.6	130.0	130.0	130.0	130.0
36"		80.0	86.7	130.0	130.0	130.0	130.0
40"		80.0	78.9	130.0	130.0	130.0	130.0
44"		80.0	72.7	130.0	130.0	130.0	130.0
48"		80.0	67.6	130.0	130.0	130.0	130.0
52"		80.0	63.4	125.1	130.0	130.0	130.0
56"		80.0	59.9	118.3	130.0	130.0	130.0
60"	80.0	57.0	112.5	130.0	130.0	130.0	
32"	98"	80.0	92.4				
36"		80.0	82.9				
40"		80.0	75.4				
44"		80.0	69.4				
48"		80.0	64.5				
52"		80.0	-				
56"		80.0	-				

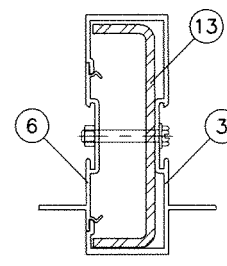
JAMB & MULLION LOAD CAPACITY - PSF
JAMB & MULLIONS WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1'	MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32"	102"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	130.0	130.0	130.0	130.0
40"		80.0	40.0	130.0	130.0	130.0	130.0
44"		80.0	40.0	126.1	130.0	130.0	130.0
48"		80.0	40.0	117.0	130.0	130.0	130.0
52"		80.0	40.0	109.5	127.3	130.0	130.0
56"		80.0	40.0	103.2	120.0	130.0	130.0
32"	108"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	130.0	130.0	130.0	130.0
40"		80.0	40.0	121.6	130.0	130.0	130.0
44"		80.0	40.0	111.7	129.8	130.0	130.0
48"		80.0	40.0	103.5	120.3	130.0	130.0
52"		80.0	40.0	96.7	112.4	123.5	130.0
56"		80.0	40.0	90.0	104.5	115.6	126.7
32"	114"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	119.8	130.0	130.0	130.0
40"		80.0	40.0	108.7	126.3	130.0	130.0
44"		80.0	40.0	99.6	115.9	127.3	130.0
48"		80.0	40.0	92.2	107.2	117.8	130.0
52"		80.0	40.0	85.5	98.5	109.8	121.8
56"		80.0	40.0	78.8	90.0	101.8	113.8
32"	120"	80.0	40.0	120.5	130.0	130.0	130.0
36"		80.0	40.0	107.8	125.3	130.0	130.0
40"		80.0	40.0	97.7	113.6	124.8	130.0
44"		78.9	40.0	89.5	104.0	114.3	127.9
48"		73.1	37.9	82.7	96.2	105.7	118.3



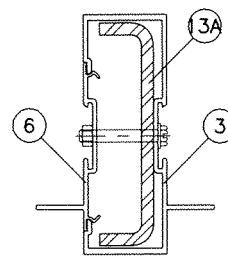
WIDTH (W) = W1
AT FRAME JAMB

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



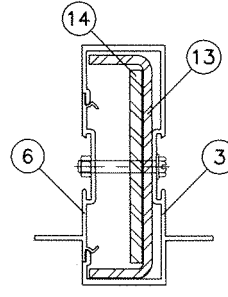
MULLION 'M2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	3.397	1.469
TOTAL Ix ALUM + Ix STL X 2.9	14.615	



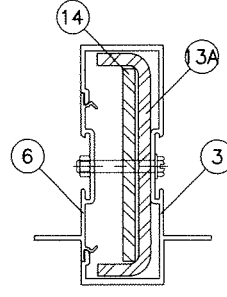
MULLION 'M3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	4.157	1.798
TOTAL Ix ALUM + Ix STL X 2.9	16.8202	



MULLION 'M4'

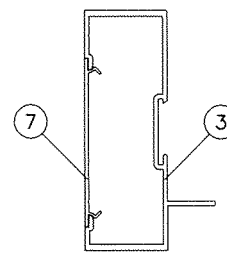
	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	4.730	2.046
TOTAL Ix ALUM + Ix STL X 2.9	18.482	



MULLION 'M5'

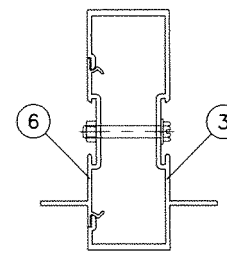
	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	5.490	2.374
TOTAL Ix ALUM + Ix STL X 2.9	20.6869	

STEEL REINFORCING LENGTHS = FRAME HEIGHTS



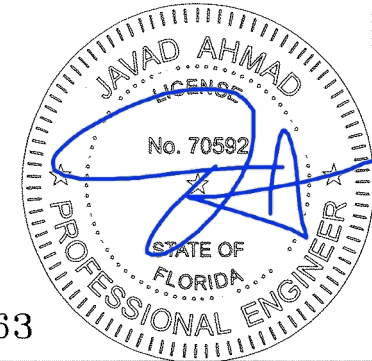
JAMB 'J1'

Ix IN ⁴	Sx IN ³
4.5896	1.7941



MULLION 'M1'

Ix IN ⁴	Sx IN ³
4.7649	1.8627



FL #18363

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 264-8100

US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

revisions:
no date by description

date: 08-26-15
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

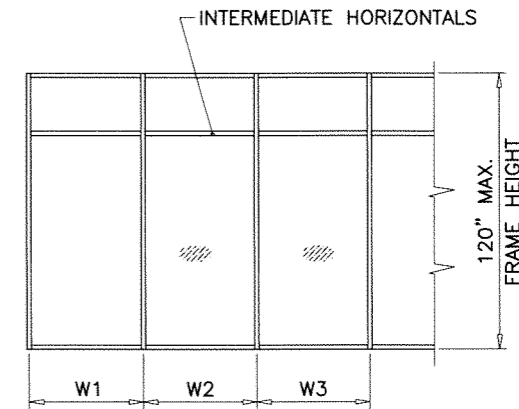
drawing no.
W15-50
sheet 3 of 11

JAMB & MULLION LOAD CAPACITY - PSF
JAMB & MULLIONS WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1'	MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32"	72"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	100.0	130.0	130.0	130.0	130.0
44"		80.0	100.0	130.0	130.0	130.0	130.0
48"		80.0	100.0	130.0	130.0	130.0	130.0
52"		80.0	100.0	130.0	130.0	130.0	130.0
56"		80.0	96.9	130.0	130.0	130.0	130.0
60"	80.0	90.5	130.0	130.0	130.0	130.0	
32"	78"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	100.0	130.0	130.0	130.0	130.0
44"		80.0	100.0	130.0	130.0	130.0	130.0
48"		80.0	95.7	130.0	130.0	130.0	130.0
52"		80.0	88.4	130.0	130.0	130.0	130.0
56"		80.0	82.1	130.0	130.0	130.0	130.0
60"	80.0	76.6	130.0	130.0	130.0	130.0	
32"	84"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	100.0	130.0	130.0	130.0	130.0
40"		80.0	98.5	130.0	130.0	130.0	130.0
44"		80.0	89.5	130.0	130.0	130.0	130.0
48"		80.0	82.1	130.0	130.0	130.0	130.0
52"		80.0	75.7	130.0	130.0	130.0	130.0
56"		80.0	70.3	130.0	130.0	130.0	130.0
60"	80.0	65.6	128.1	130.0	130.0	130.0	
32"	90"	80.0	100.0	130.0	130.0	130.0	130.0
36"		80.0	94.7	130.0	130.0	130.0	130.0
40"		80.0	85.3	130.0	130.0	130.0	130.0
44"		80.0	77.5	130.0	130.0	130.0	130.0
48"		80.0	71.1	130.0	130.0	130.0	130.0
52"		80.0	65.6	128.8	130.0	130.0	130.0
56"		80.0	60.9	119.6	130.0	130.0	130.0
60"	80.0	56.8	111.6	128.4	130.0	130.0	
32"	96"	80.0	93.1	130.0	130.0	130.0	130.0
36"		80.0	82.8	130.0	130.0	130.0	130.0
40"		80.0	74.5	130.0	130.0	130.0	130.0
44"		80.0	67.7	130.0	130.0	130.0	130.0
48"		80.0	62.1	122.6	130.0	130.0	130.0
52"		80.0	57.3	113.2	130.0	130.0	130.0
56"		80.0	53.2	105.1	121.0	130.0	130.0
60"	80.0	49.7	98.1	112.9	124.1	130.0	
32"	98"	80.0	89.2				
36"		80.0	79.3				
40"		80.0	71.4				
44"		80.0	64.9				
48"		80.0	59.5				
52"		80.0	-				
56"		80.0	-				

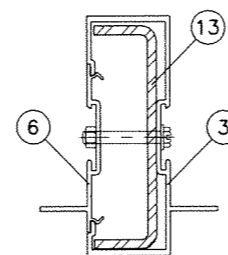
JAMB & MULLION LOAD CAPACITY - PSF
JAMB & MULLIONS WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J1'	MULLION 'M1'	MULLION 'M2'	MULLION 'M3'	MULLION 'M4'	MULLION 'M5'
WIDTH (W)	FRAME HEIGHT	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
32"	102"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	130.0	130.0	130.0	130.0
40"		80.0	40.0	130.0	130.0	130.0	130.0
44"		80.0	40.0	118.5	130.0	130.0	130.0
48"		80.0	40.0	108.6	125.0	130.0	130.0
52"		80.0	40.0	100.2	115.4	126.8	130.0
56"		80.0	40.0	93.1	107.1	117.7	130.0
32"	108"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	129.1	130.0	130.0	130.0
40"		80.0	40.0	116.2	130.0	130.0	130.0
44"		80.0	40.0	105.7	121.6	130.0	130.0
48"		80.0	40.0	96.9	111.5	122.5	130.0
52"		80.0	40.0	89.4	102.9	113.1	126.5
56"		80.0	40.0	80.0	93.1	107.1	117.7
32"	114"	80.0	40.0	130.0	130.0	130.0	130.0
36"		80.0	40.0	115.9	130.0	130.0	130.0
40"		80.0	40.0	104.3	120.1	130.0	130.0
44"		80.0	40.0	94.8	109.2	120.0	130.0
48"		80.0	40.0	86.9	100.1	110.0	123.0
52"		80.0	40.0	78.5	90.3	99.2	111.0
56"		80.0	40.0	70.3	80.6	89.4	102.9
32"	120"	80.0	40.0	117.7	130.0	130.0	130.0
36"		80.0	40.0	104.6	120.4	130.0	130.0
40"		80.0	40.0	94.1	108.4	119.1	130.0
44"		74.9	38.9	85.6	98.5	108.3	121.1
48"		68.7	35.6	78.5	90.3	99.2	111.0



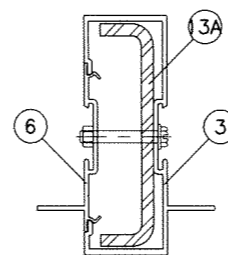
WIDTH (W) = W1
AT FRAME JAMB

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



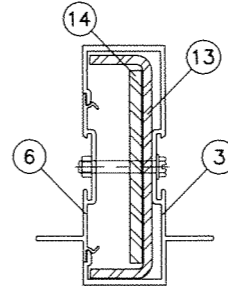
MULLION 'M2'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	3.397	1.469
TOTAL Ix ALUM + Ix STL X 2.9	14.615	



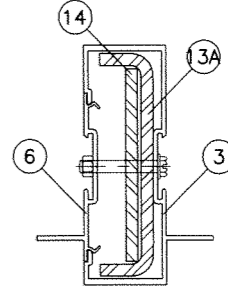
MULLION 'M3'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	4.157	1.798
TOTAL Ix ALUM + Ix STL X 2.9	16.8202	



MULLION 'M4'

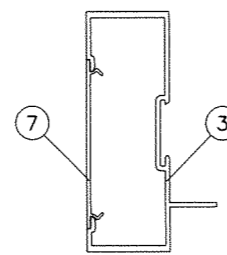
	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	4.730	2.046
TOTAL Ix ALUM + Ix STL X 2.9	18.482	



MULLION 'M5'

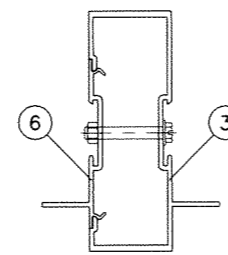
	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627
STEEL	5.490	2.374
TOTAL Ix ALUM + Ix STL X 2.9	20.6869	

STEEL REINFORCING LENGTHS = FRAME HEIGHTS



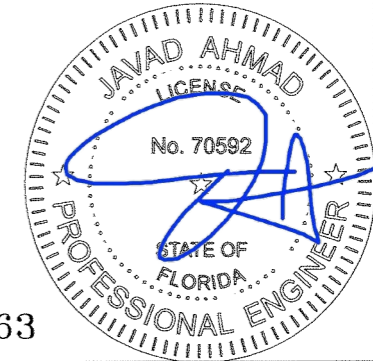
JAMB 'J1'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.5896	1.7941



MULLION 'M1'

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.7649	1.8627



FL #18363

afC
AL-FAROOQ CORPORATION
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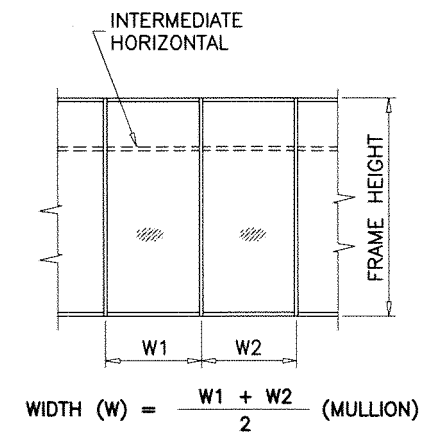
revisions:
no date by description

date: 08-26-15
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
W15-50
sheet 3.1 of 11

ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)								
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	C2	C3
32"	72"	130.0	130.0	130.0	130.0	130.0	130.0	130.0
36"		130.0	130.0	130.0	130.0	130.0	130.0	130.0
40"		130.0	130.0	130.0	130.0	130.0	130.0	130.0
44"		130.0	130.0	130.0	130.0	130.0	130.0	130.0
45"		120.0	130.0	130.0	130.0	130.0	130.0	130.0
48"		110.0	130.0	130.0	130.0	130.0	130.0	130.0
52"		101.5	130.0	130.0	130.0	130.0	130.0	130.0
56"		94.3	130.0	130.0	130.0	130.0	130.0	130.0
60"		88.0	123.2	130.0	130.0	130.0	130.0	130.0
32"		78"	130.0	130.0	130.0	130.0	130.0	130.0
36"	130.0		130.0	130.0	130.0	130.0	130.0	130.0
40"	121.8		130.0	130.0	130.0	130.0	130.0	130.0
44"	110.8		130.0	130.0	130.0	130.0	130.0	130.0
45"	108.3		130.0	130.0	130.0	130.0	130.0	130.0
48"	101.5		130.0	130.0	130.0	130.0	130.0	130.0
52"	93.7		130.0	130.0	130.0	130.0	130.0	130.0
56"	87.0		121.8	130.0	128.6	130.0	128.9	130.0
60"	81.2		113.7	130.0	120.0	130.0	120.3	130.0
32"	84"		130.0	130.0	130.0	130.0	130.0	130.0
36"		125.7	130.0	130.0	130.0	130.0	130.0	130.0
40"		113.1	130.0	130.0	130.0	130.0	130.0	130.0
44"		102.9	130.0	130.0	130.0	130.0	130.0	130.0
45"		100.6	130.0	130.0	130.0	130.0	130.0	130.0
48"		94.3	130.0	130.0	130.0	130.0	130.0	130.0
52"		87.0	121.8	130.0	128.6	130.0	128.9	130.0
56"		80.8	113.1	130.0	119.4	130.0	119.7	130.0
60"		75.4	105.6	130.0	111.4	130.0	111.7	130.0
32"		90"	130.0	130.0	130.0	130.0	130.0	130.0
36"	117.3		130.0	130.0	130.0	130.0	130.0	130.0
40"	105.6		130.0	130.0	130.0	130.0	130.0	130.0
44"	96.0		130.0	130.0	130.0	130.0	130.0	130.0
45"	93.9		130.0	130.0	130.0	130.0	130.0	130.0
48"	88.0		123.2	130.0	130.0	130.0	130.0	130.0
52"	81.2		113.7	130.0	120.0	130.0	120.3	130.0
56"	75.4		105.6	130.0	111.4	130.0	111.7	130.0
60"	70.4		98.6	126.7	104.0	130.0	104.3	130.0
32"	96"		123.8	130.0	130.0	130.0	130.0	130.0
36"		110.0	130.0	130.0	130.0	130.0	130.0	130.0
40"		99.0	130.0	130.0	130.0	130.0	130.0	130.0
44"		90.0	126.0	130.0	130.0	130.0	130.0	130.0
45"		88.0	123.2	130.0	130.0	130.0	130.0	130.0
48"		82.5	115.5	130.0	121.9	130.0	122.2	130.0
52"		76.2	106.6	130.0	112.5	130.0	112.8	130.0
56"		70.7	99.0	127.3	104.5	130.0	104.7	130.0
60"		66.0	92.4	118.8	97.5	130.0	97.8	130.0
32"		102"	116.5	130.0	130.0	130.0	130.0	130.0
36"	103.5		130.0	130.0	130.0	130.0	130.0	130.0
40"	93.2		130.0	130.0	130.0	130.0	130.0	130.0
44"	84.7		118.6	130.0	125.1	130.0	125.5	130.0
45"	82.8		116.0	130.0	122.4	130.0	122.7	130.0
48"	77.6		108.7	130.0	114.7	130.0	115.0	130.0
52"	71.7		100.3	129.0	105.9	130.0	106.2	130.0
56"	66.6		93.2	119.8	98.3	130.0	98.6	130.0

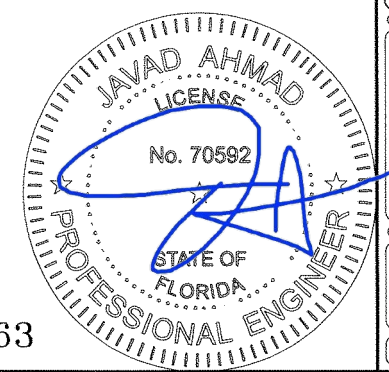
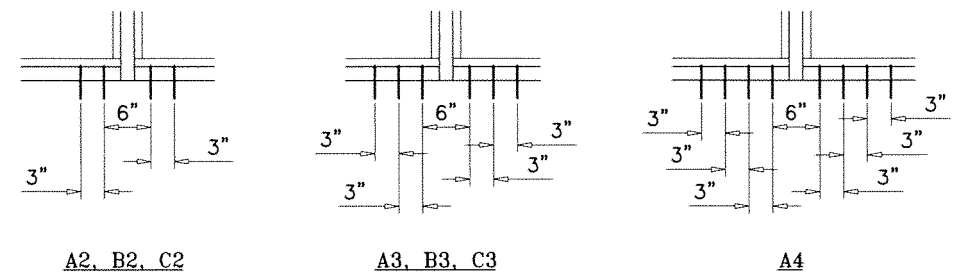
ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS TYPE 'B'		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A2	A3	A4	B2	B3	C2	C3	
32"	108"	110.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		97.8	130.0	130.0	130.0	130.0	130.0	130.0	
40"		88.0	123.2	130.0	130.0	130.0	130.0	130.0	
44"		80.0	112.0	130.0	118.2	130.0	118.5	130.0	
45"		78.2	109.5	130.0	115.6	130.0	115.9	130.0	
48"		73.3	102.7	130.0	108.3	130.0	108.6	130.0	
52"		67.7	94.8	121.8	100.0	130.0	100.3	130.0	
32"		114"	104.2	130.0	130.0	130.0	130.0	130.0	130.0
36"			92.6	129.7	130.0	130.0	130.0	130.0	130.0
40"			83.4	116.7	130.0	123.2	130.0	123.5	130.0
44"	75.8		106.1	130.0	112.0	130.0	112.2	130.0	
45"	74.1		103.7	130.0	109.5	130.0	109.8	130.0	
48"	69.5	97.3	125.1	102.6	130.0	102.9	130.0		
32"	120"	99.0	130.0	130.0	130.0	130.0	130.0	130.0	
36"		88.0	123.2	130.0	130.0	130.0	130.0	130.0	
40"		79.2	110.9	130.0	117.0	130.0	117.3	130.0	
44"		72.0	100.8	129.6	106.4	130.0	106.6	130.0	
45"		70.4	98.6	126.7	104.0	130.0	104.3	130.0	
48"		66.0	92.4	118.8	97.5	130.0	97.8	130.0	




ANCHORS TYPES: SEE SHEET 7 FOR DESCRIPTION & SHEET 1 FOR INSTRUCTIONS

- A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
- B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
- C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
- A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



FL #18363



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
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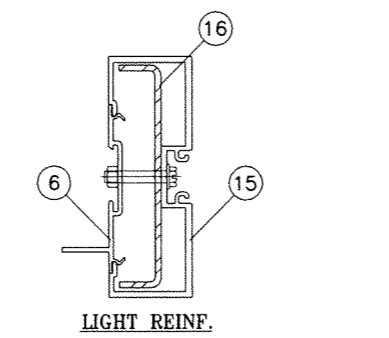
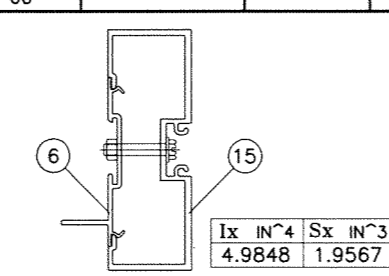
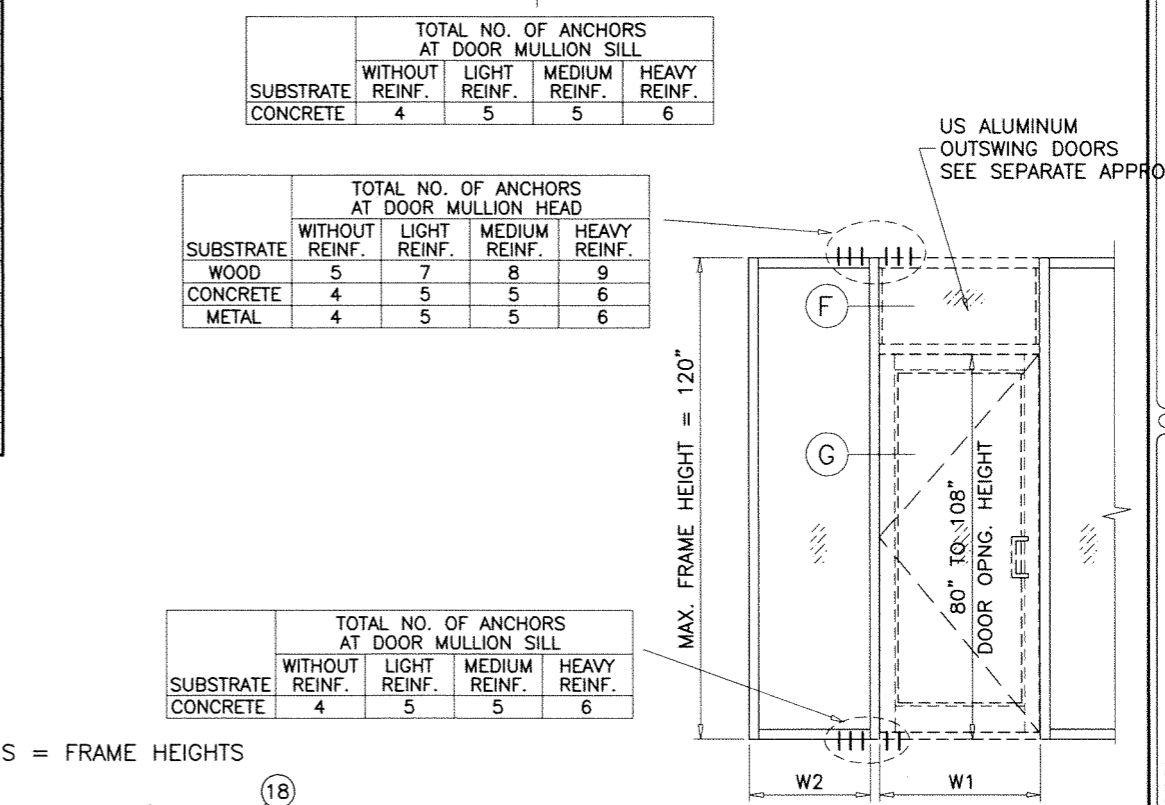
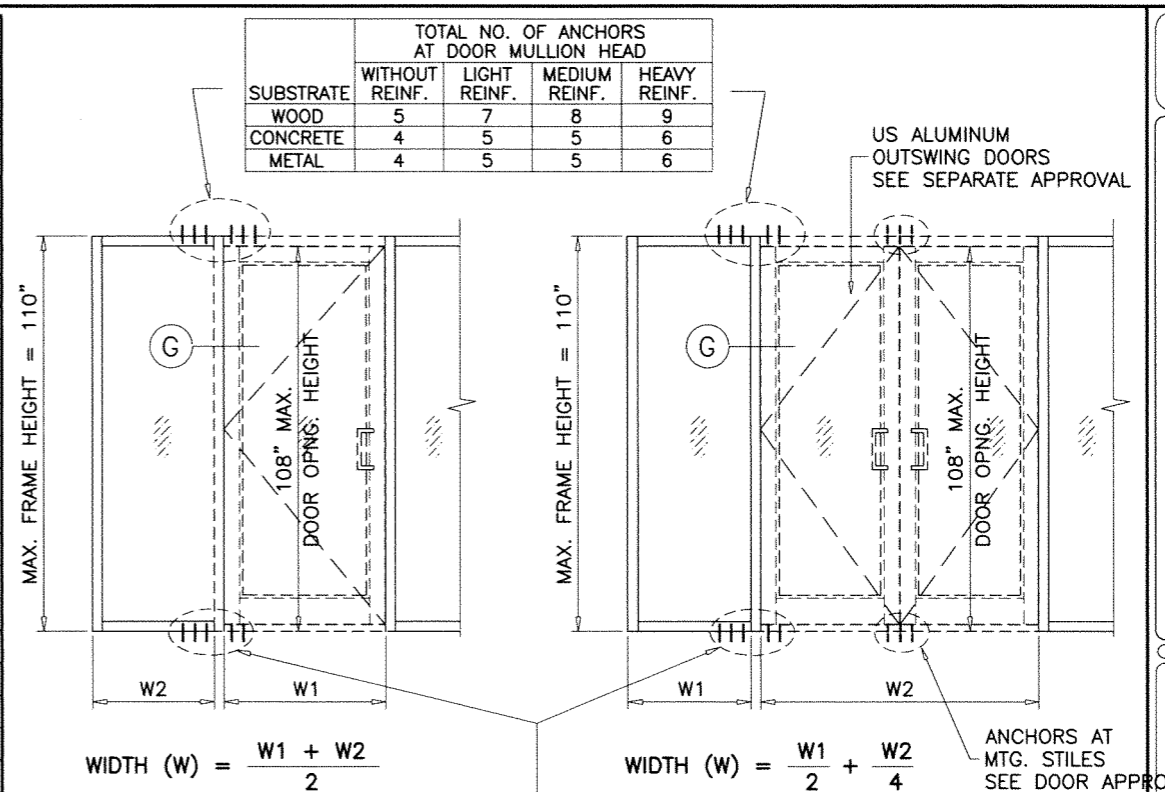
revisions:	no	date	by	description

date: 08-26-15	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
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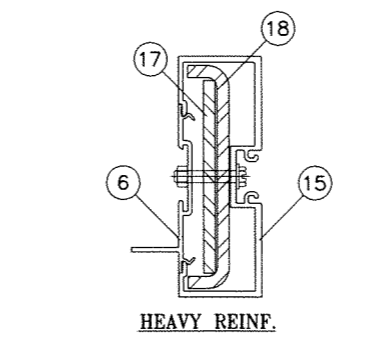
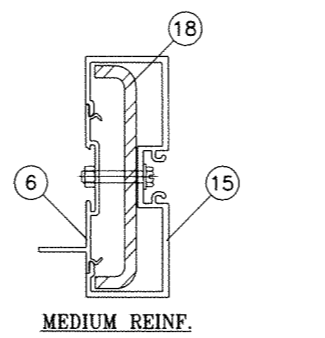
drawing no.
W15-50
sheet 4 of 11

DOOR MULLION LOAD CAPACITY-PSF					
WIDTH (W) INCHES	FRAME HEIGHT INCHES	WITHOUT REINF.	LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	75.0	100.0	100.0	100.0
33		75.0	100.0	100.0	100.0
36		75.0	100.0	100.0	100.0
39		75.0	100.0	100.0	100.0
42		75.0	100.0	100.0	100.0
45		75.0	100.0	100.0	100.0
48		75.0	100.0	100.0	100.0
51		75.0	100.0	100.0	100.0
54		75.0	100.0	100.0	100.0
57		75.0	100.0	100.0	100.0
60		71.8	95.9	100.0	100.0
30		86	75.0	100.0	100.0
33	75.0		100.0	100.0	100.0
36	75.0		100.0	100.0	100.0
39	75.0		100.0	100.0	100.0
42	75.0		100.0	100.0	100.0
45	75.0		100.0	100.0	100.0
48	75.0		100.0	100.0	100.0
51	75.0		100.0	100.0	100.0
54	72.2		96.9	100.0	100.0
57	68.4		91.8	100.0	100.0
60	-		87.2	100.0	100.0
30	92		75.0	100.0	100.0
33		75.0	100.0	100.0	100.0
36		75.0	100.0	100.0	100.0
39		75.0	100.0	100.0	100.0
42		75.0	100.0	100.0	100.0
45		75.0	100.0	100.0	100.0
48		70.5	95.3	100.0	100.0
51		66.4	89.7	100.0	100.0
54		62.7	84.7	100.0	100.0
57		-	80.2	100.0	100.0
60		-	76.2	100.0	100.0
30		98	75.0	100.0	100.0
33	75.0		100.0	100.0	100.0
36	75.0		100.0	100.0	100.0
39	75.0		100.0	100.0	100.0
42	70.6		95.9	100.0	100.0
45	65.9		89.5	100.0	100.0
48	61.8		83.9	100.0	100.0
51	58.1		79.0	100.0	100.0
54	-		74.6	100.0	100.0
57	-		70.7	96.7	100.0
60	-		67.2	91.9	100.0
30	104		75.0	100.0	100.0
33		75.0	100.0	100.0	100.0
36		72.7	99.4	100.0	100.0
39		67.1	91.7	100.0	100.0
42		62.3	85.2	100.0	100.0
45		58.1	79.5	100.0	100.0
48		54.5	74.5	100.0	100.0
51		-	70.2	96.0	100.0
54		-	66.3	90.7	100.0
57		-	62.8	85.9	100.0
60		-	59.6	81.6	100.0

DOOR MULLION LOAD CAPACITY-PSF					
WIDTH (W) INCHES	FRAME HEIGHT INCHES	WITHOUT REINF.	LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	110	75.0	100.0	100.0	100.0
33		70.4	96.9	100.0	100.0
36		64.6	88.8	100.0	100.0
39		59.6	82.0	100.0	100.0
42		55.3	76.1	100.0	100.0
45		51.6	71.1	97.2	100.0
48		-	66.6	91.2	100.0
51		-	62.7	85.8	100.0
54		-	59.2	81.0	100.0
57		-	56.1	76.8	97.6
60		-	53.3	72.9	92.7
30		116	-	95.9	100.0
33	-		87.1	100.0	100.0
36	-		79.9	100.0	100.0
39	-		73.7	100.0	100.0
42	-		68.5	93.7	100.0
45	-		63.9	87.4	100.0
48	-		59.9	82.0	100.0
51	-		56.4	77.2	98.1
54	-		53.3	72.9	92.6
57	-		50.5	69.0	87.7
60	-		47.9	65.6	83.4
30	120		-	89.6	100.0
33		-	81.4	100.0	100.0
36		-	74.7	100.0	100.0
39		-	68.9	94.3	100.0
42		-	64.0	87.6	100.0
45		-	59.7	81.7	100.0
48		-	56.0	76.6	97.4
51		-	52.7	72.1	91.6
54		-	49.8	68.1	86.6
57		-	47.1	64.5	82.0
60		-	44.8	61.3	77.9



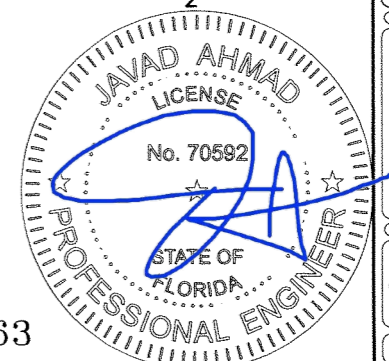
STEEL REINFORCING LENGTHS = FRAME HEIGHTS



ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	1.8775	.8119
TOTAL	10.4296	
Ix ALUM + Ix STL X 2.9		

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	3.2021	1.3847
TOTAL	14.2709	
Ix ALUM + Ix STL X 2.9		

ALUMINUM	Ix IN ⁴	Sx IN ³
STEEL	4.5354	1.9614
TOTAL	18.1375	
Ix ALUM + Ix STL X 2.9		



FL #18363

Sealed 2/13/18

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

US Aluminum Series 'DPS-500' Storefront Sys. (L.M.I.)

US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077

revisions: no date by description

date: 08-26-15

scale: 1/2" = 1"
dr. by: TARIO
chk. by:

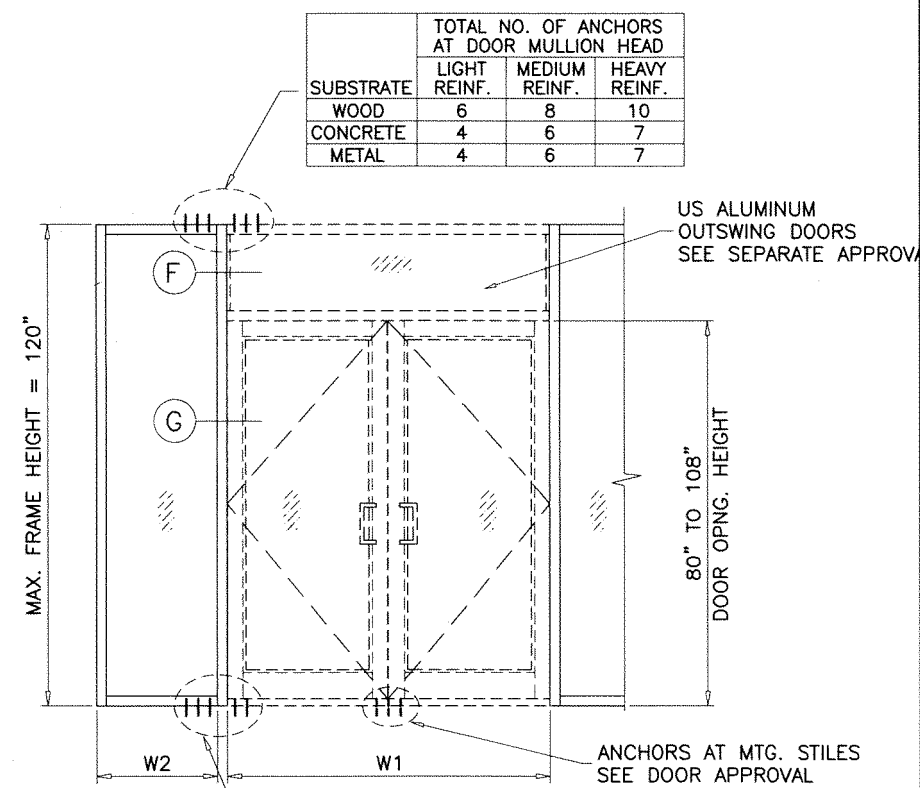
drawing no.

W15-50

sheet 5 of 11

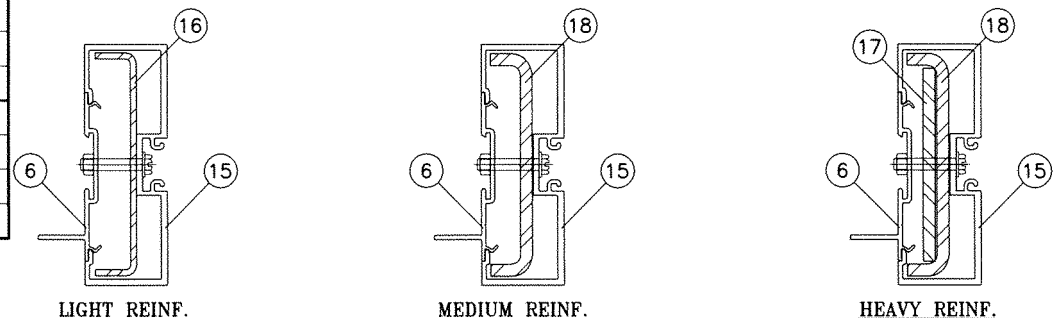
DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.			LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
90	60	46-1/4	89.9	100.0	100.0
		52-1/4	85.1	100.0	100.0
		58-1/4	80.8	100.0	100.0
		64-1/4	76.9	100.0	100.0
	64	46-1/4	86.7	100.0	100.0
		52-1/4	82.2	100.0	100.0
		58-1/4	78.2	100.0	100.0
		64-1/4	74.5	100.0	100.0
	72	46-1/4	80.8	100.0	100.0
		52-1/4	76.9	100.0	100.0
		58-1/4	73.4	100.0	100.0
		64-1/4	70.1	96.0	100.0
84	46-1/4	73.4	100.0	100.0	
	52-1/4	70.1	96.0	100.0	
	58-1/4	67.2	91.9	100.0	
	64-1/4	64.5	88.2	100.0	
96	60	46-1/4	79.0	100.0	100.0
		52-1/4	74.8	100.0	100.0
		58-1/4	71.0	97.2	100.0
		64-1/4	67.6	92.5	100.0
	64	46-1/4	76.2	100.0	100.0
		52-1/4	72.2	98.8	100.0
		58-1/4	68.7	94.0	100.0
		64-1/4	65.5	89.6	100.0
	72	46-1/4	71.0	97.2	100.0
		52-1/4	67.6	92.5	100.0
		58-1/4	64.5	88.2	100.0
		64-1/4	61.6	84.3	100.0
84	46-1/4	64.5	88.2	100.0	
	52-1/4	61.6	84.3	100.0	
	58-1/4	59.0	80.8	100.0	
	64-1/4	56.6	77.5	98.5	
102	60	46-1/4	70.0	95.8	100.0
		52-1/4	66.3	90.7	100.0
		58-1/4	62.9	86.1	100.0
		64-1/4	59.9	81.9	100.0
	64	46-1/4	67.5	92.3	100.0
		52-1/4	64.0	87.6	100.0
		58-1/4	60.9	83.3	100.0
		64-1/4	58.0	79.4	100.0
	72	46-1/4	62.9	86.1	100.0
		52-1/4	59.9	81.9	100.0
		58-1/4	57.1	78.2	99.3
		64-1/4	54.6	74.7	95.0
84	46-1/4	57.1	78.2	99.3	
	52-1/4	54.6	74.7	95.0	
	58-1/4	52.3	71.6	91.0	
	64-1/4	50.2	68.7	87.3	

DOOR MULLION LOAD CAPACITY - PSF					
NOMINAL DIMS.			LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
108	60	46-1/4	62.5	85.5	100.0
		52-1/4	59.1	80.9	100.0
		58-1/4	56.1	76.8	97.6
		64-1/4	53.4	73.1	92.9
	64	46-1/4	60.2	82.4	100.0
		52-1/4	57.1	78.1	99.3
		58-1/4	54.3	74.3	94.4
		64-1/4	51.7	70.8	90.0
	72	46-1/4	56.1	76.8	97.6
		52-1/4	53.4	73.1	92.9
		58-1/4	50.9	69.7	88.6
		64-1/4	48.7	66.6	84.7
84	46-1/4	50.9	69.7	88.6	
	52-1/4	48.7	66.6	84.7	
	58-1/4	46.6	63.8	81.1	
	64-1/4	44.5	61.0	77.5	
114	60	46-1/4	56.1	76.7	97.5
		52-1/4	53.1	72.6	92.3
		58-1/4	50.4	68.9	87.6
		64-1/4	47.9	65.6	83.4
	64	46-1/4	54.0	73.9	93.9
		52-1/4	51.2	70.1	89.1
		58-1/4	48.7	66.7	84.7
		64-1/4	46.4	63.5	80.8
	72	46-1/4	50.4	68.9	87.6
		52-1/4	47.9	65.6	83.4
		58-1/4	45.7	62.6	79.5
		64-1/4	43.7	59.8	76.0
84	46-1/4	45.7	62.6	79.5	
	52-1/4	43.7	59.8	76.0	
	58-1/4	41.6	56.7	72.6	
	64-1/4	39.6	53.6	69.1	
120	60	46-1/4	50.6	69.2	88.0
		52-1/4	47.9	65.5	83.3
		58-1/4	45.5	62.2	79.0
		64-1/4	43.3	59.2	75.2
	64	46-1/4	48.8	66.7	84.8
		52-1/4	46.2	63.3	80.4
		58-1/4	44.0	60.2	76.5
		64-1/4	41.9	57.3	72.9
	72	46-1/4	45.5	62.2	79.0
		52-1/4	43.3	59.2	75.2
		58-1/4	41.3	56.5	71.8
		64-1/4	39.3	53.8	68.4
84	46-1/4	41.3	56.5	71.8	
	52-1/4	39.3	53.8	68.4	
	58-1/4	37.3	51.1	65.0	
	64-1/4	35.3	48.4	61.6	



SUBSTRATE	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD		
	LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
WOOD	6	8	10
CONCRETE	4	6	7
METAL	4	6	7

SUBSTRATE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL		
	LIGHT REINF.	MEDIUM REINF.	HEAVY REINF.
CONCRETE	4	6	7

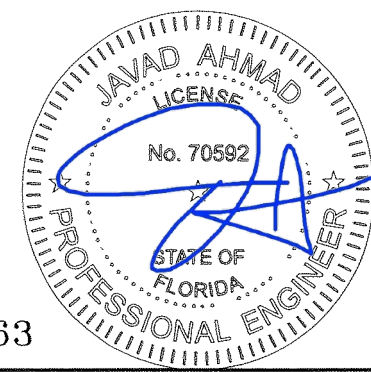


	Ix IN ⁴	Sx IN ³
ALUMINUM	4.9848	1.9567
STEEL	1.8775	.8119
TOTAL Ix ALUM + Ix STL X 2.9	10.4296	

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.9848	1.9567
STEEL	3.2021	1.3847
TOTAL Ix ALUM + Ix STL X 2.9	14.2709	

	Ix IN ⁴	Sx IN ³
ALUMINUM	4.9848	1.9567
STEEL	4.5354	1.9614
TOTAL Ix ALUM + Ix STL X 2.9	18.1375	

STEEL REINFORCING LENGTHS = FRAME HEIGHTS



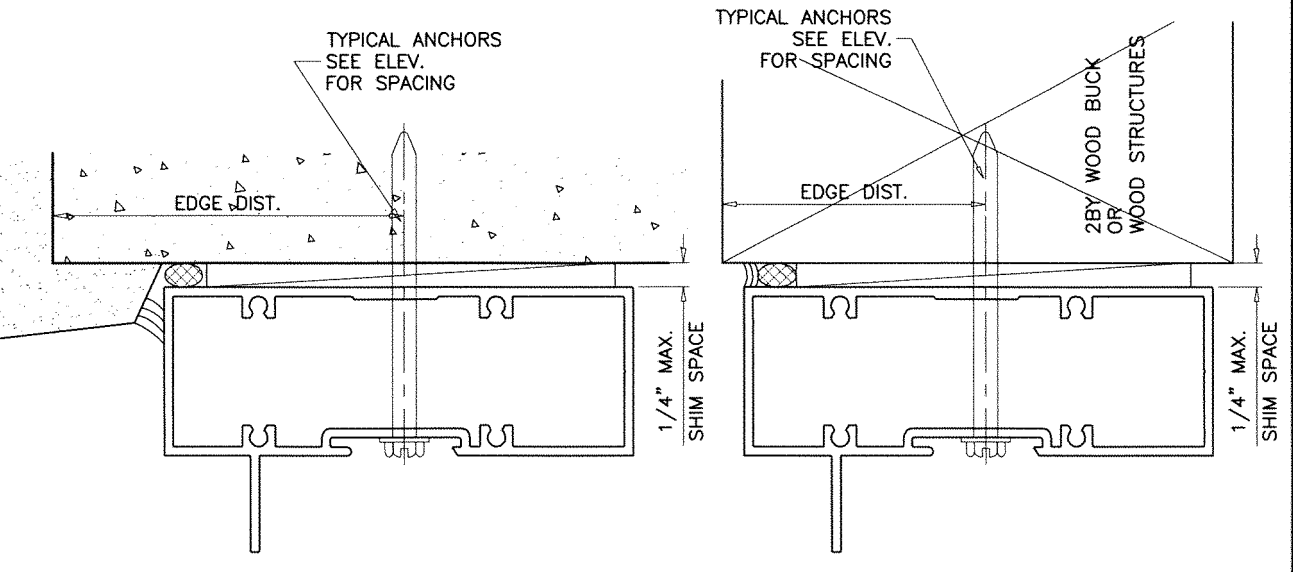
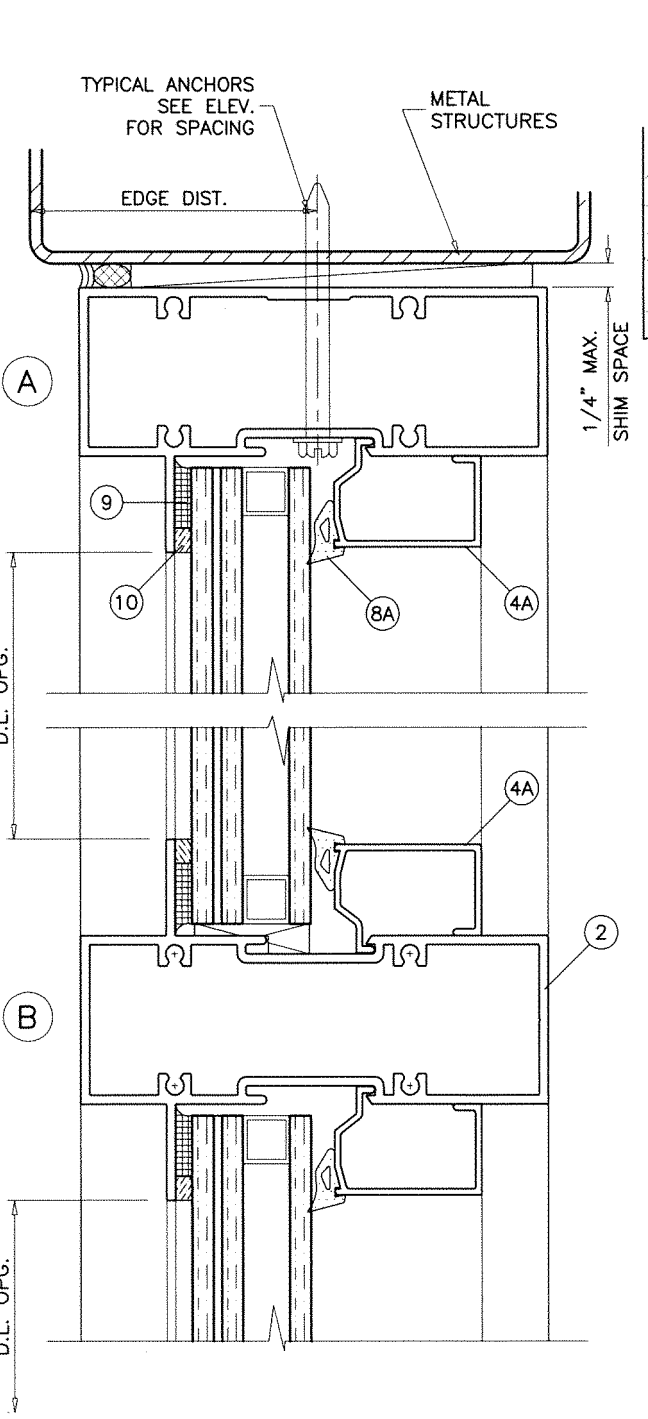
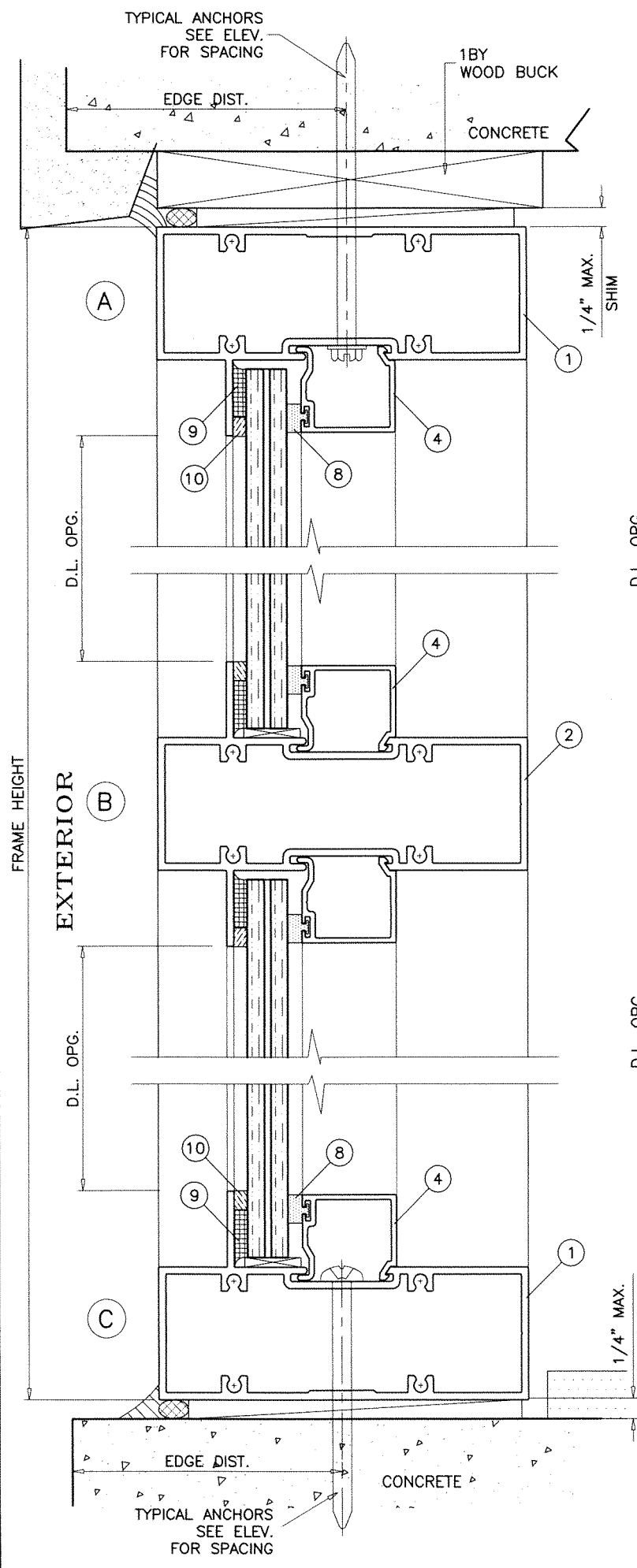
FL #18363

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978

US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

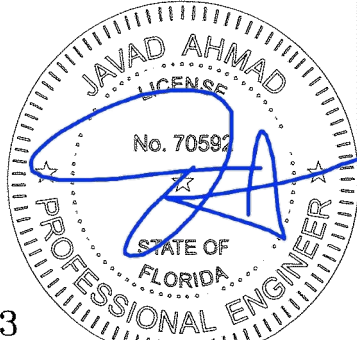
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dr. by:	TARIQ	chk. by:	

drawing no. **W15-50**
sheet 6 of 11



WOOD BUCKS AND METAL STRUCTURES NOT BY US ALUMINUM MUST SUPPORT 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 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)
 THRU 1BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)
- TYPE 'B'** - 1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE OR BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)
- TYPE 'C'** - #14 SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- CRITICAL EDGE DISTANCE**
 INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
- WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
 CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 GROUT-FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

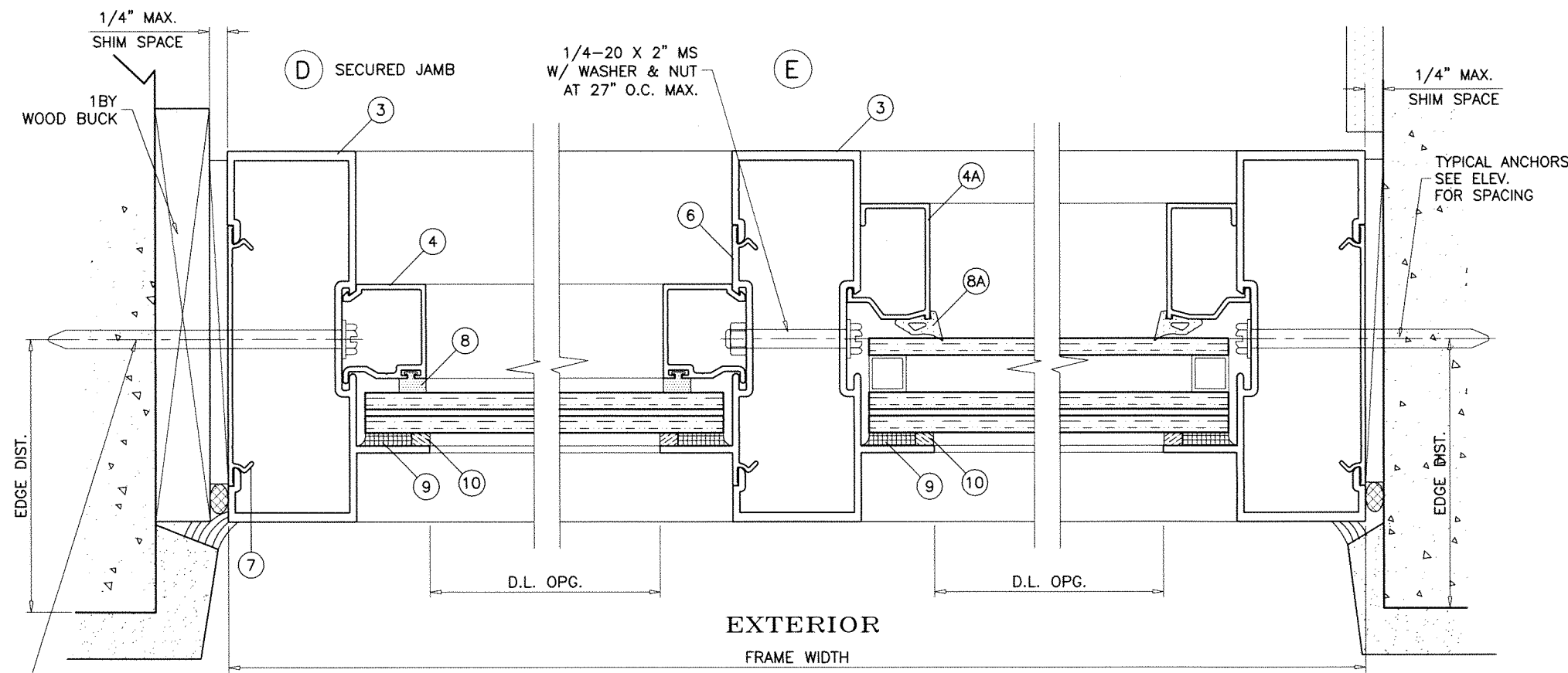


FL #18363

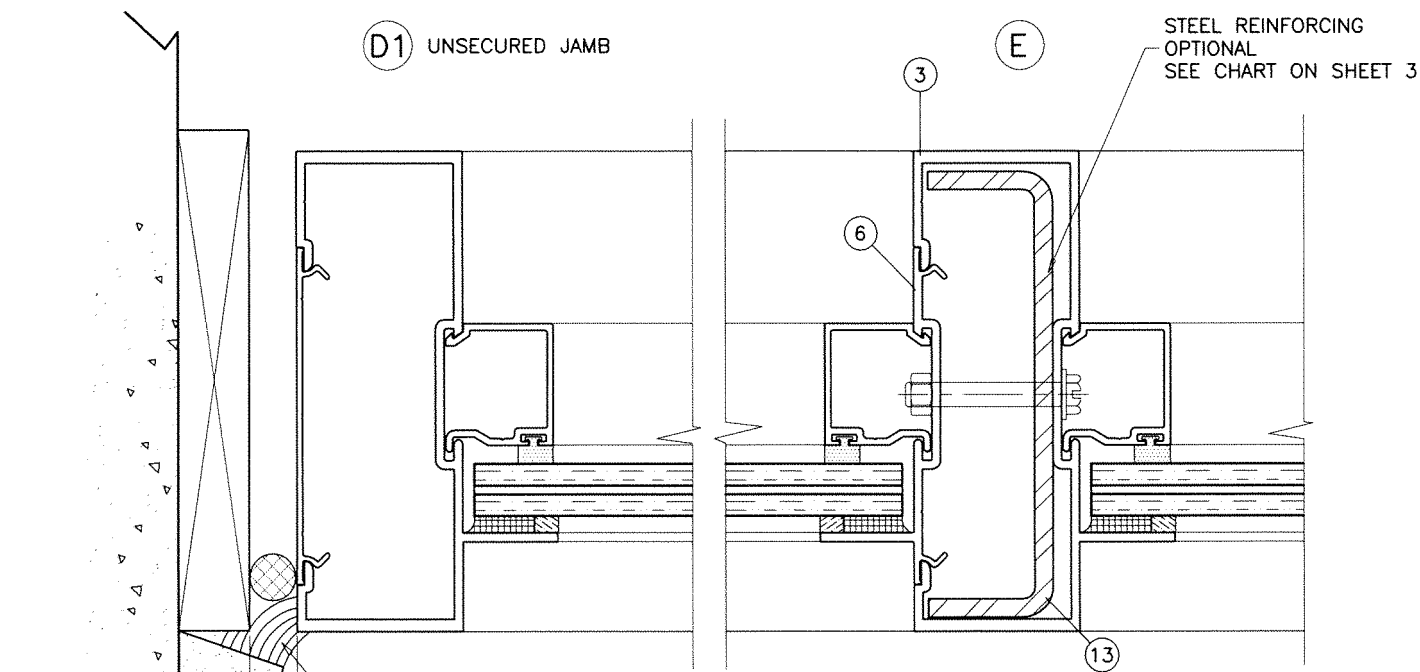
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE/02-27DD

US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
US Aluminum
 Division Of **C.R. Laurence Co., Inc.**
 7500 N.W. 69TH AVE.
 MIAMI, FL 33166
 TEL. (305) 888-0077 FAX. (305) 884-3111

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dr. by:	TARIQ	chk. by:		
drawing no.	W15-50			
sheet	7 of 11			



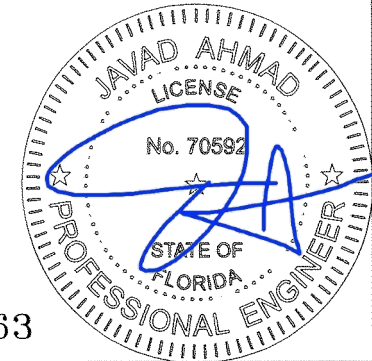
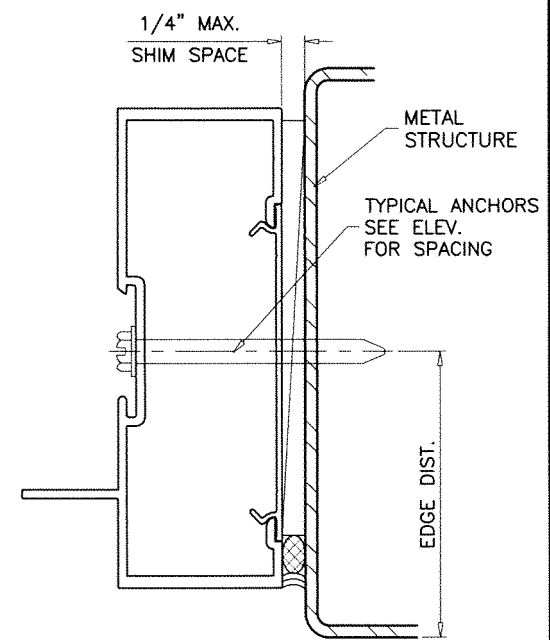
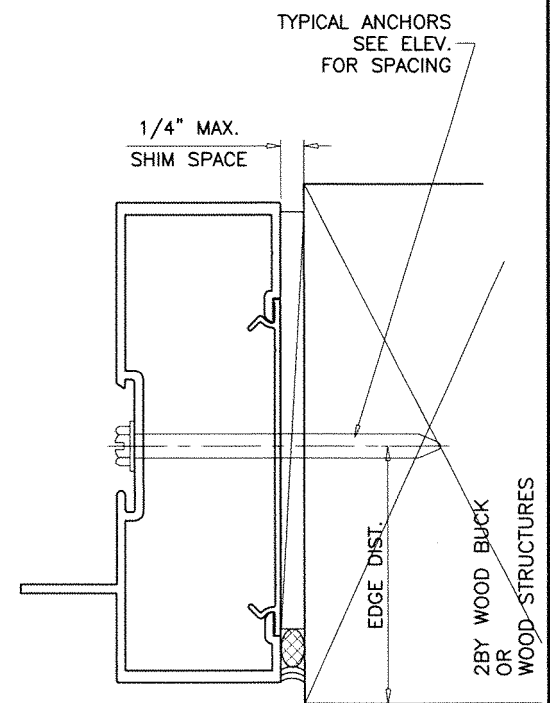
TYPICAL ANCHORS
SEE ELEV.
FOR SPACING



SILICONE
DOW CORNING 790
DEPTH = 3/8" MIN.

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
72"	1/4"	3/4"
84"	3/16"	3/4"
96"	5/16"	3/4"
108"	5/16"	3/4"
120"	3/8"	3/4"

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



FL #18363

Sealed 2/13/18

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)
MIAMI, FLORIDA 33173 TEL. (305) 262-6978
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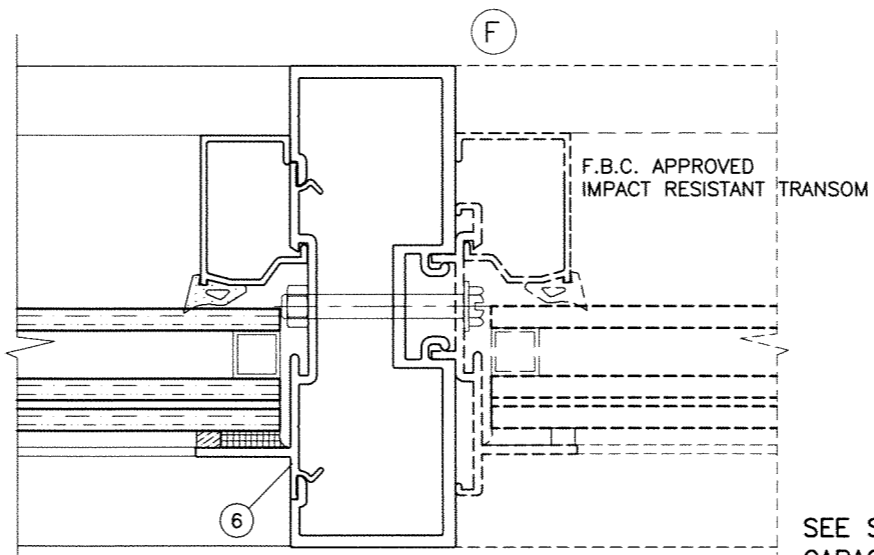
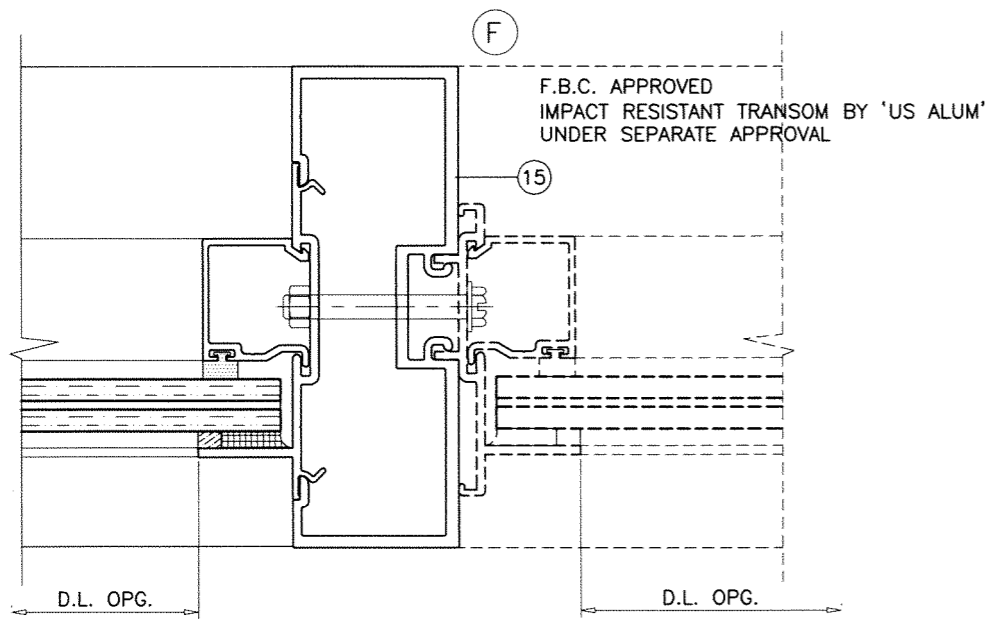
US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
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revisions:	no	date	description

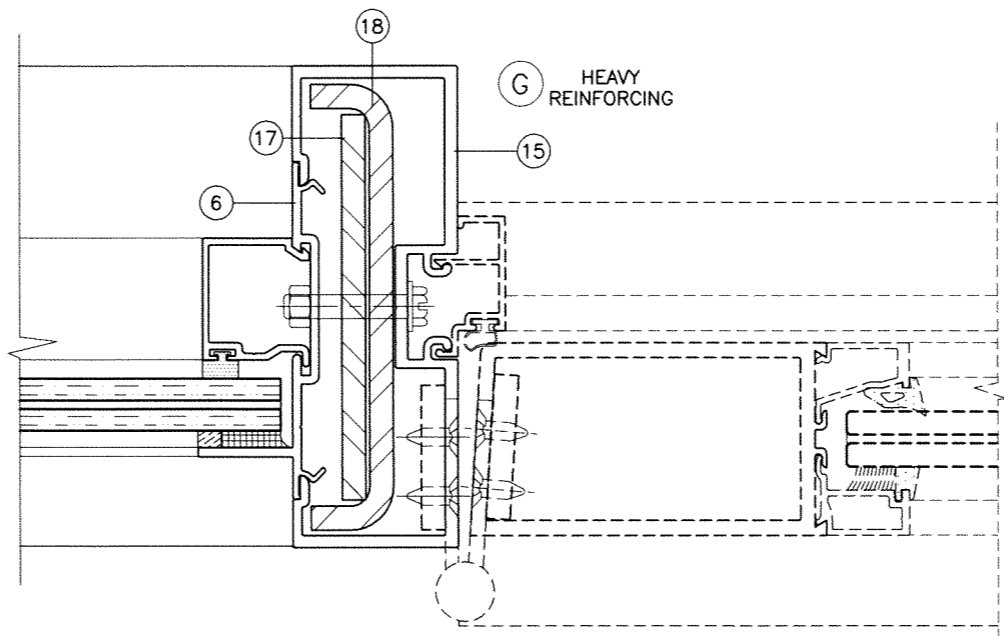
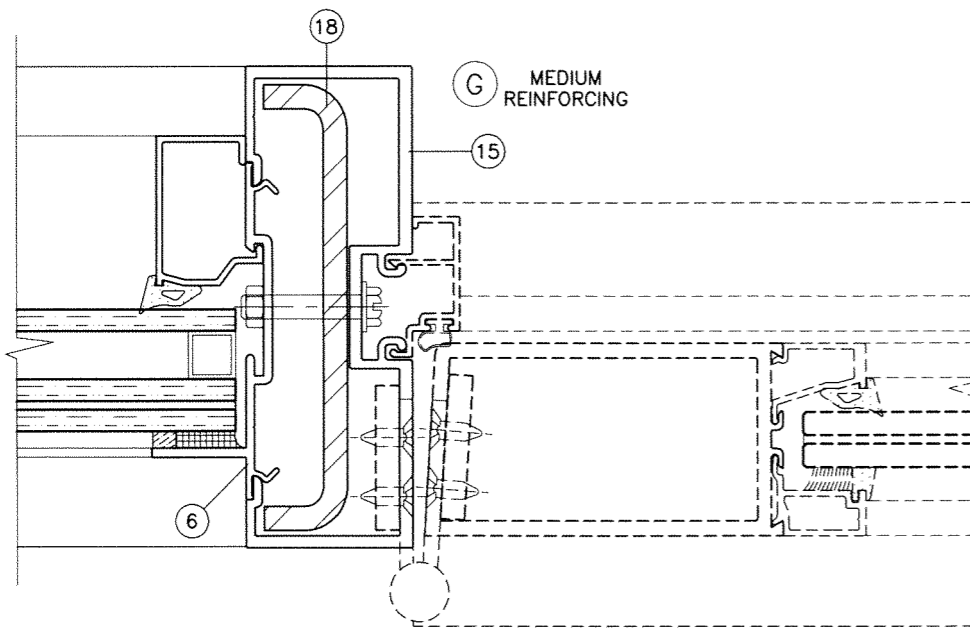
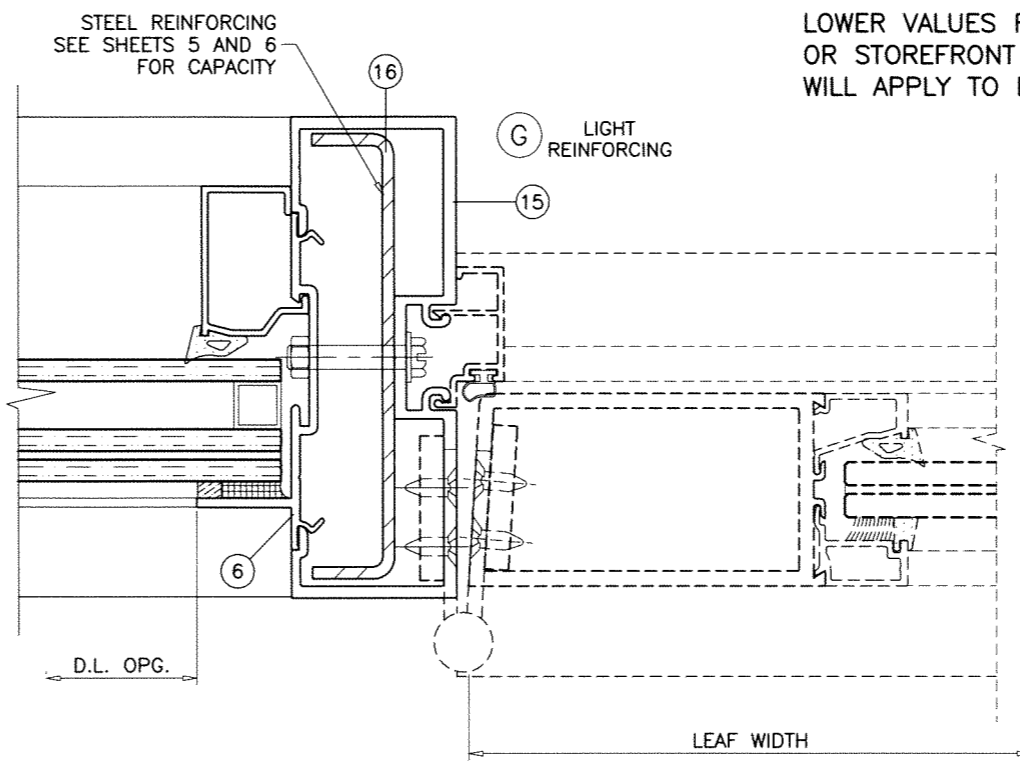
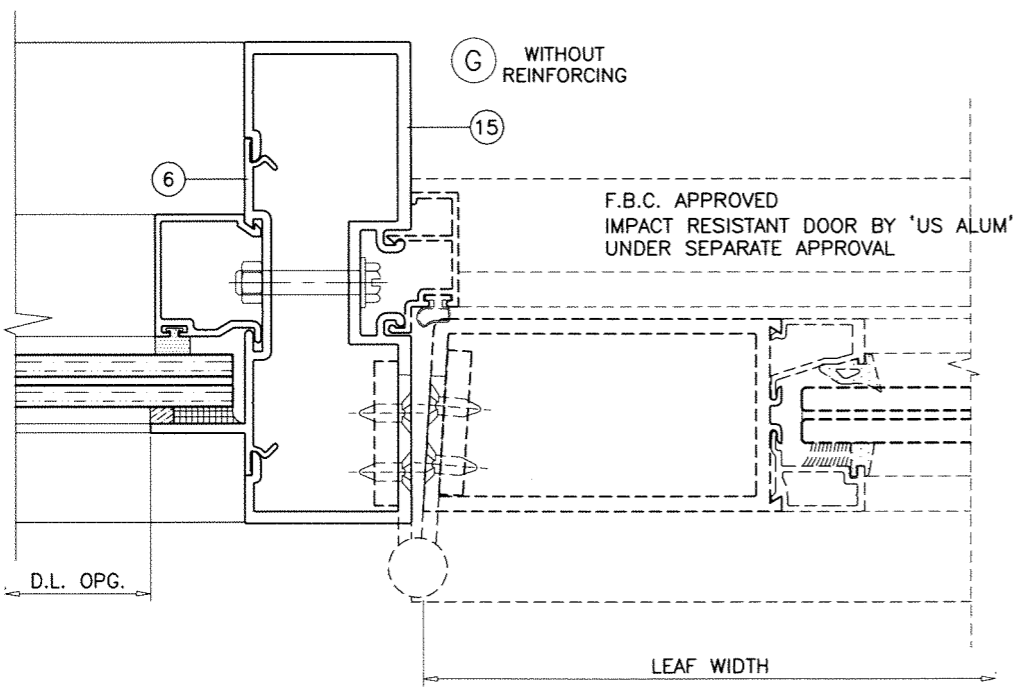
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chk. by:

drawing no.
W15-50
sheet 8 of 11

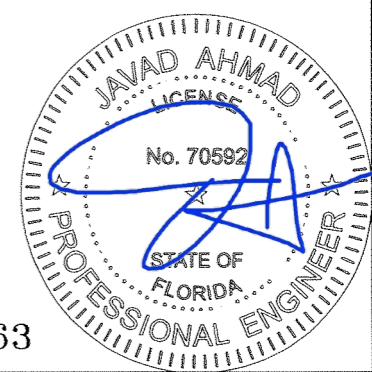
STORE\02-27DD



SEE SEPARATE 'US ALUMINUM' APPROVAL FOR DESIGN LOAD CAPACITY OF DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS APPROVAL OR STOREFRONT SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.



FL #18363



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

US Aluminum Series 'DHS-500' Storefront Sys. (L.M.I.)
US Aluminum
Division Of C.R. Laurence Co., Inc.
7500 N.W. 69TH AVE.
MIAMI, FL 33166
TEL. (305) 888-0077 FAX. (305) 884-3111

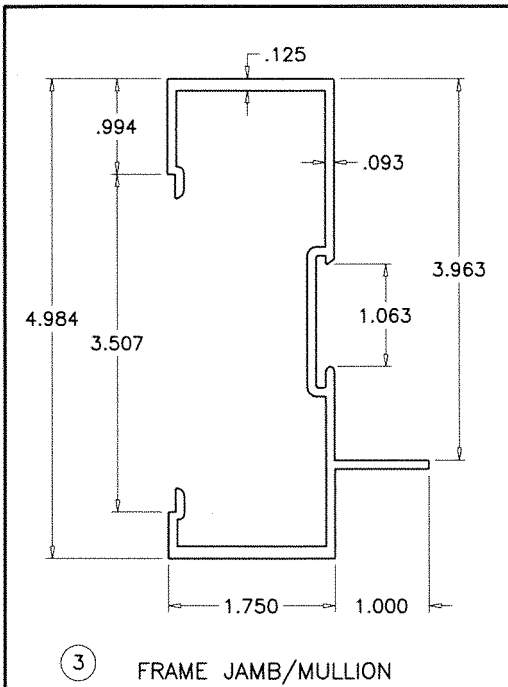
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dr. by: TARIQ
chk. by:

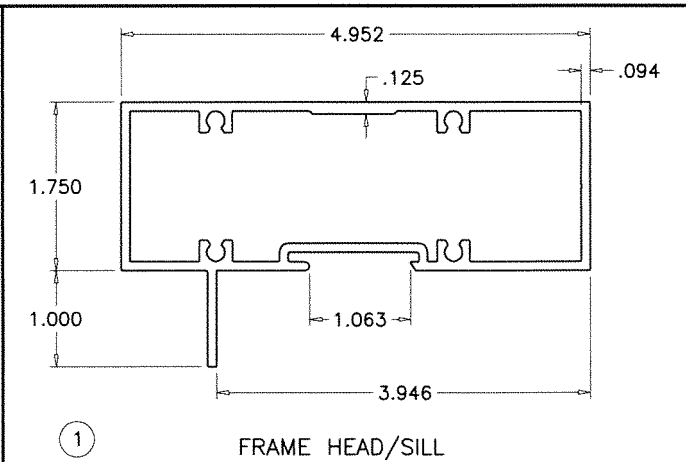
drawing no.
W15-50

sheet 9 of 11

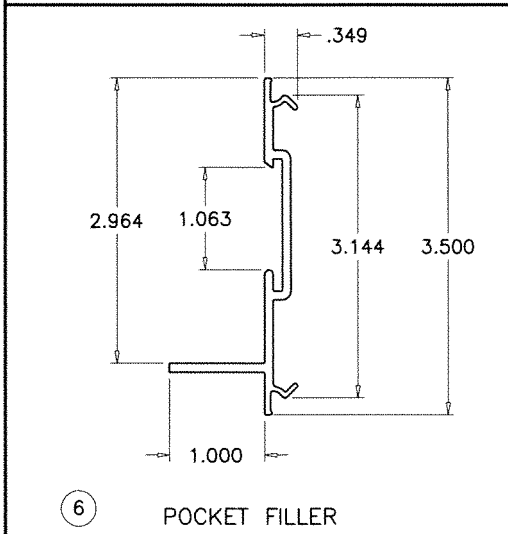
STORE\02-27DD



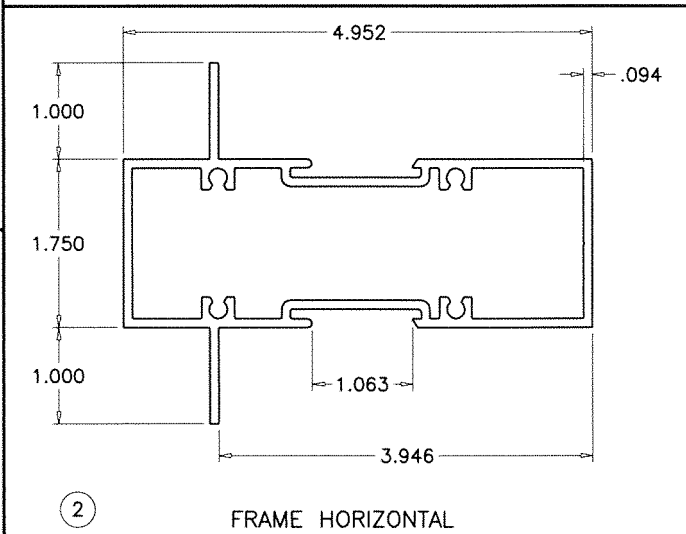
③ FRAME JAMB/MULLION



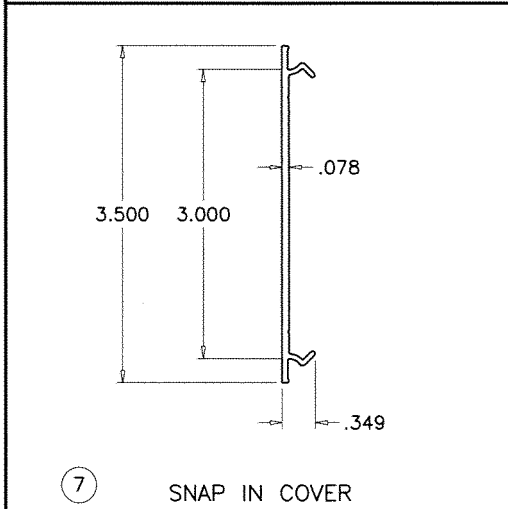
① FRAME HEAD/SILL



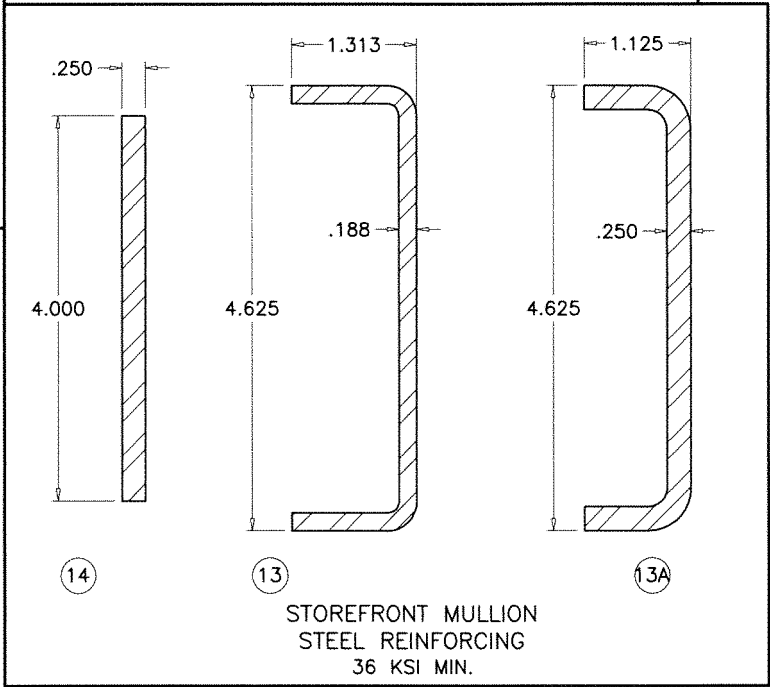
⑥ POCKET FILLER



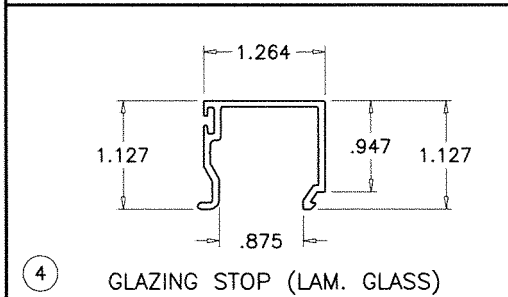
② FRAME HORIZONTAL



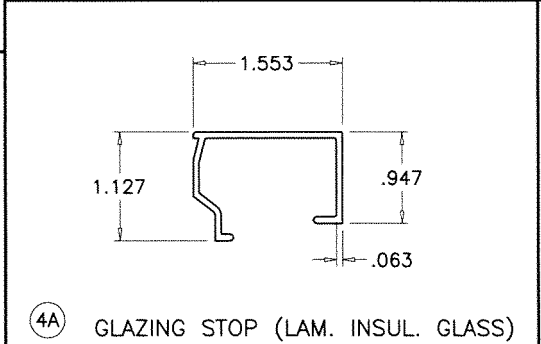
⑦ SNAP IN COVER



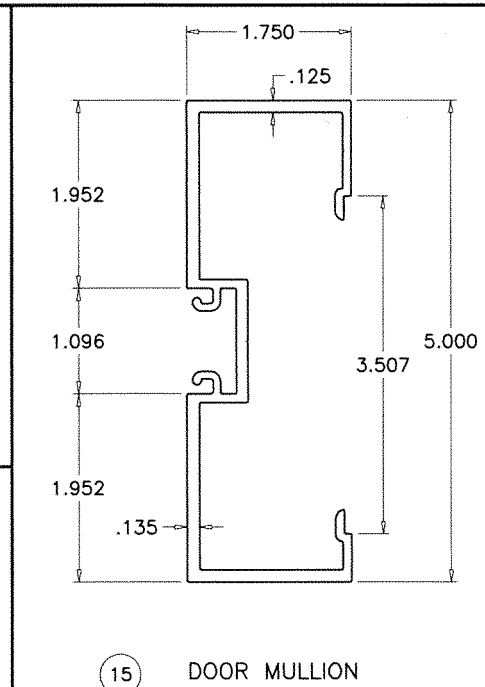
⑬ STOREFRONT MULLION
STEEL REINFORCING
36 KSI MIN.



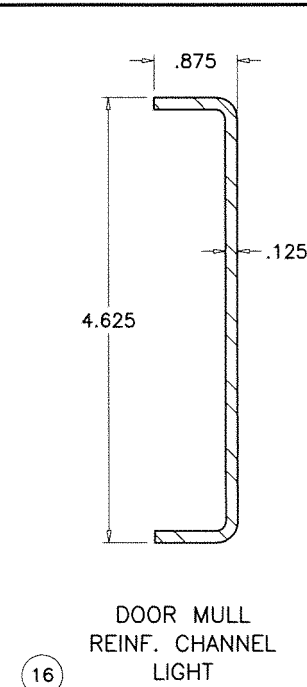
④ GLAZING STOP (LAM. GLASS)



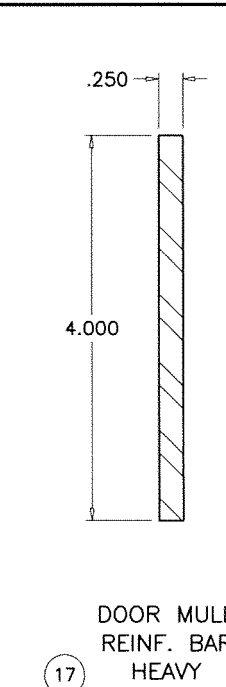
④A GLAZING STOP (LAM. INSUL. GLASS)



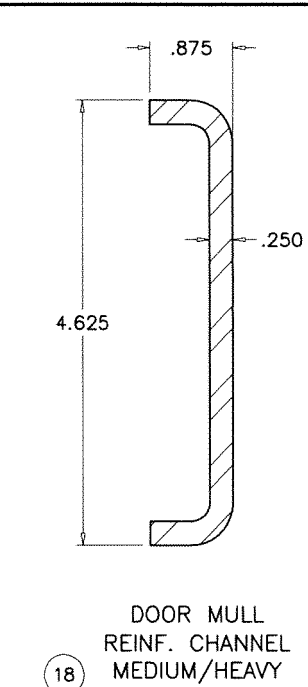
⑮ DOOR MULLION



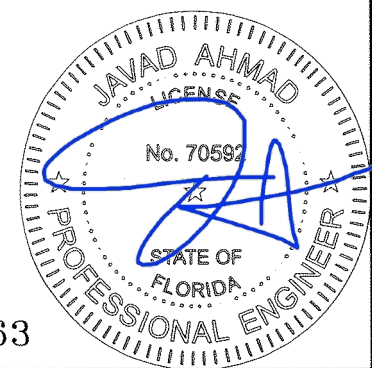
⑯ DOOR MULL REINF. CHANNEL LIGHT



⑰ DOOR MULL REINF. BAR HEAVY



⑱ DOOR MULL REINF. CHANNEL MEDIUM/HEAVY



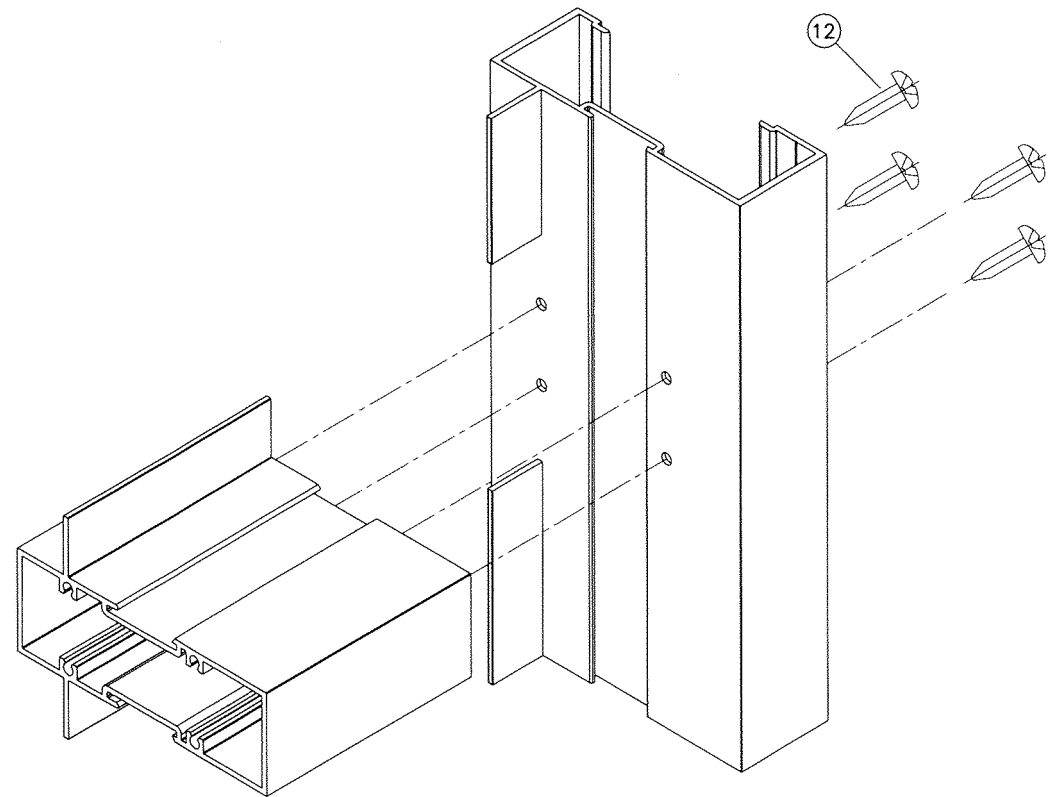
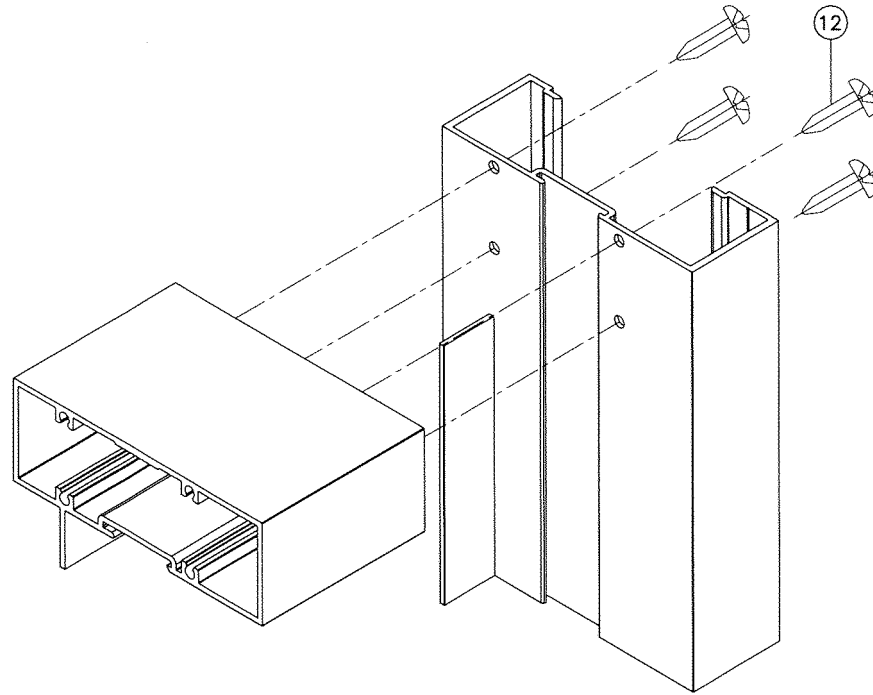
FL #18363

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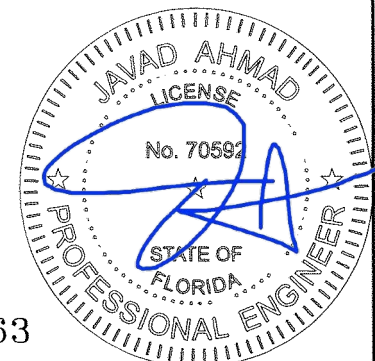
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 dr: by: TARIO
 chk: by:
 drawing no.
W15-50
 sheet 10 of 11



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	DLD-103	AS REQD.	FRAME HEAD/SILL	6063-T6	-
2	DLD-104	AS REQD.	FRAME HORIZONTAL	6063-T6	-
3	DLD-100	AS REQD.	FRAME JAMB/MULLION	6063-T6	-
4	DLD-102	AS REQD.	GLAZING STOP (LAM. GLASS)	6063-T5	-
4A	DLS-132	AS REQD.	GLAZING STOP (LAM. INSUL. GLASS)	6063-T5	-
6	DLD-101	AS REQD.	POCKET FILLER	6063-T6	-
7	BCE-475	AS REQD.	SNAP IN COVER, 2-1/2" LONG	6063-T6	-
8	-	AS REQD.	GLAZING GASKET (LAM. GLASS)	NEOPRENE	-
8A	TR-3235E	AS REQD.	GLAZING GASKET (LAM. INSUL. GLASS)	EPDM	-
9	-	AS REQD.	GLAZING COMPOUND	SILICONE	DOW 995
10	V-2206	AS REQD.	GLAZING TAPE	-	NORTON
11	-	AS REQD.	SETTING BLOCK AT 1/4" POINTS	NEOPRENE	1/8" X 3/4" X 2" LONG
11A	TX17005E	AS REQD.	SETTING BLOCK AT 1/4" POINTS	NEOPRENE	-
12	#12 X 1-1/4"	4/ CORNER	ASSEMBLY SCREWS PHSMS	STEEL	-
13	-	AS REQD.	MULLION REINFORCING CHANNEL, FULL LENGTH	STEEL	1-5/16 X 4-5/8 X 3/16"
13A	-	AS REQD.	MULLION REINFORCING CHANNEL, FULL LENGTH	STEEL	1-1/8 X 4-5/8 X 1/4"
14	-	AS REQD.	MULLION REINFORCING BAR, FULL LENGTH	STEEL	-
15	DLD-124	2/DOOR	DOOR MULLION	6063-T6	-
16	-	AS REQD.	DOOR MULLION REINF. CHANNEL, FULL LENGTH (LIGHT)	STEEL	-
17	-	AS REQD.	DOOR MULLION REINF. CHANNEL, FULL LENGTH (MEDIUM/HEAVY)	STEEL	-
18	-	AS REQD.	DOOR MULLION REINFORCING BAR, FULL LENGTH (HEAVY)	STEEL	-



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