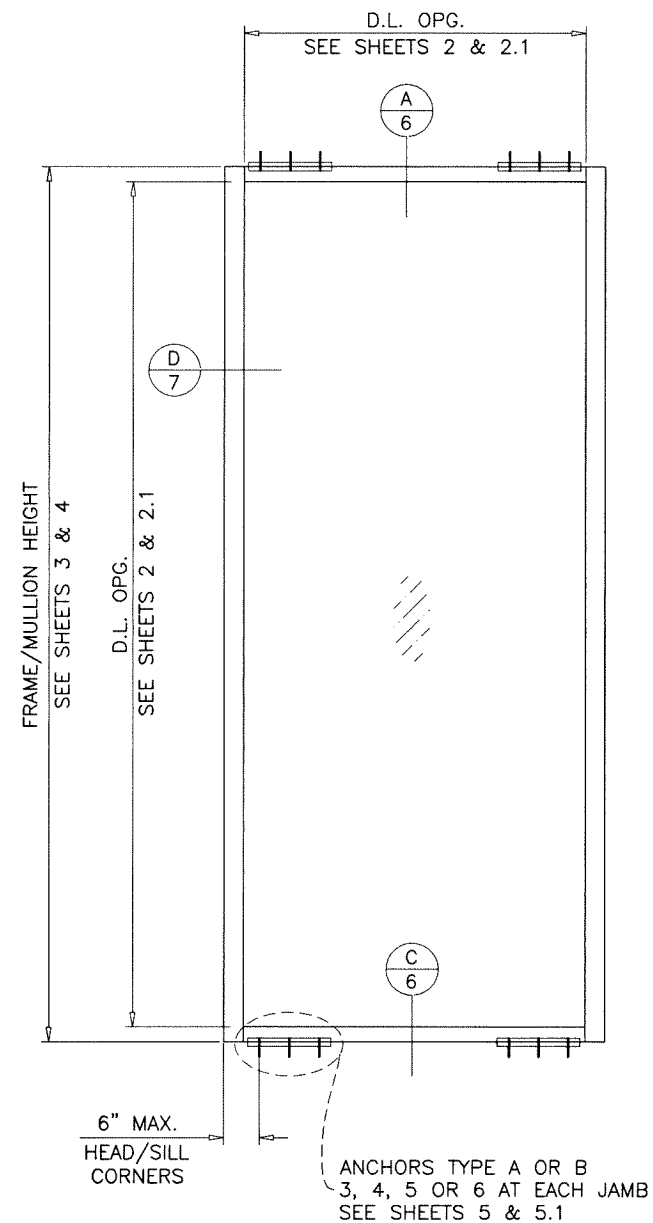
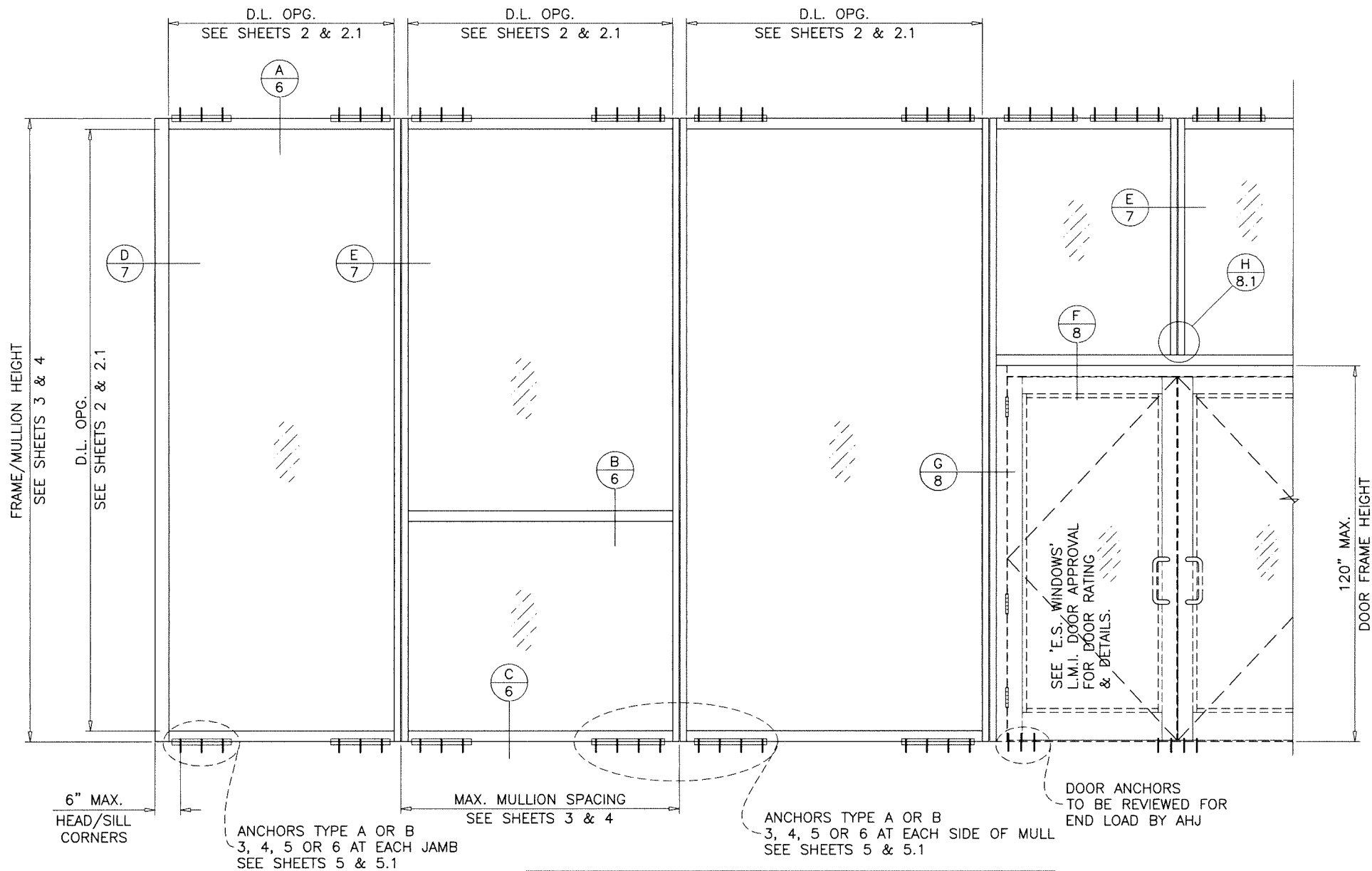




ES-WW1032i ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH 'E.S. WINDOWS' APPR'D LARGE MISSILE IMPACT RESISTANT DOORS. LOWER DESIGN PRESSURE FROM WINDOW WALL SYSTEM OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

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 2023 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.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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

TYPICAL ELEVATIONS

SINGLE 'O' PANEL:
FRAME WIDTH = D.L.O. WIDTH + 6.50"
FRAME HEIGHT = D.L.O. HEIGHT + 5.00"

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEETS 2 & 2.1 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 & 4 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEETS 5 & 5.1 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR SYSTEMS WITH UNANCHORED JAMBS (FREE JAMBS), USING SHEET 7, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.

WINDOW WALL SYSTEM WITH OUTSWING DOORS LIMITED TO
MAX. $D_p = \pm 90.0$ PSF
MAX. DOOR FRAME HEIGHT = 108"
MAX. DOOR FRAME WIDTH = 76"

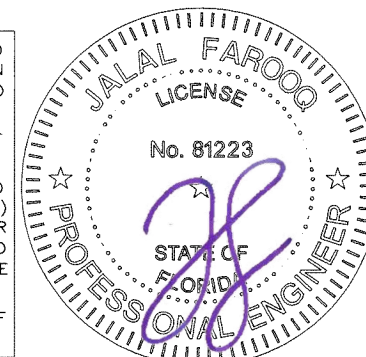
PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 8/22/2025

FL #18410

- 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
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
(C.A.N. 3538)

ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	no	date	by	description
	C	07.07.20		UPDATED TO 2020 FBC
	D	07.31.23		UPDATED TO 2023 FBC
	E	06.24.24		GLASS TYPE G ADDED
	F	07.10.25		GLASS CHART REV.

date: 10-30-15
scale: 3/8"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.

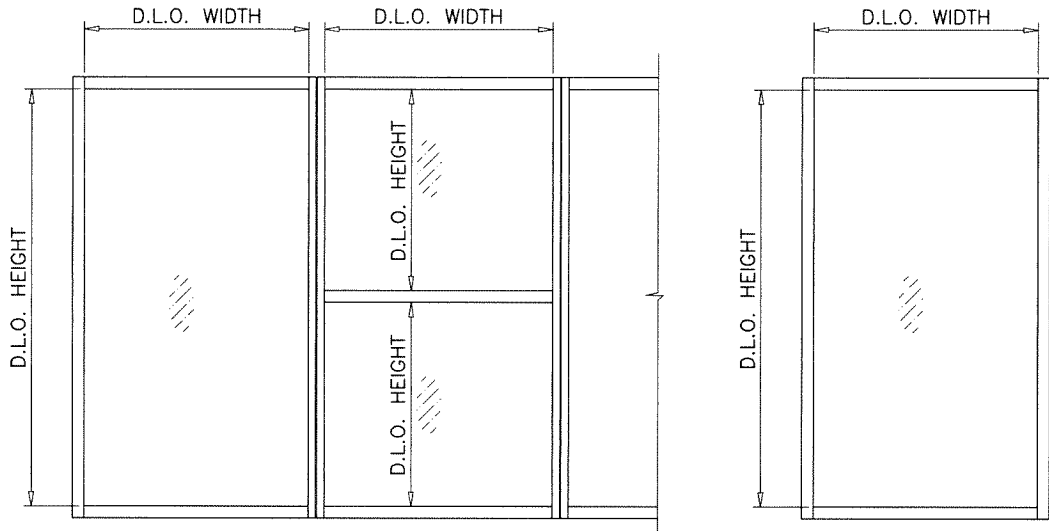
W15-84

sheet 1 of 10

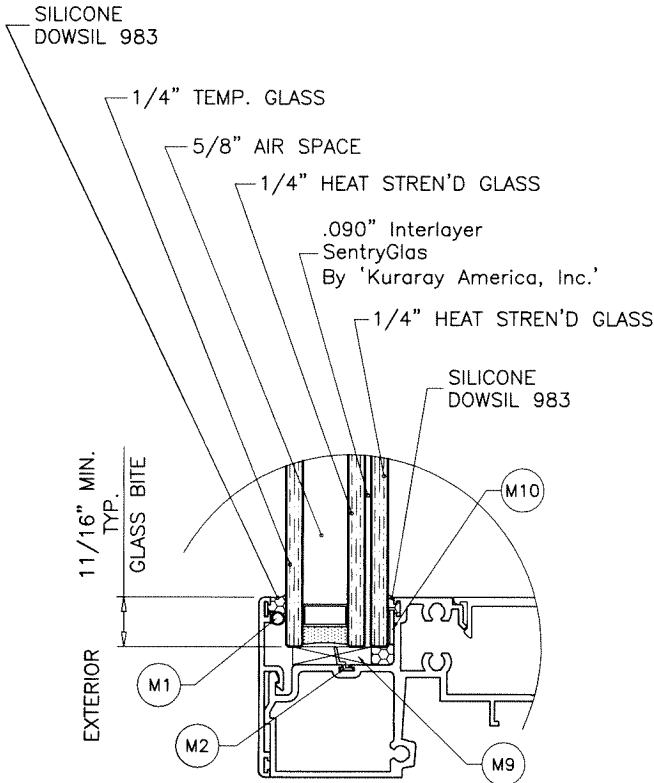
STORE\W15-84ES

GLASS LOAD CAPACITY - PSF		
NOMINAL DIMS.		GLASS TYPE 'G3'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+) INT. (-)
50-3/4"	115"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
86-3/4"		98.0
50-3/4"	121"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
50-3/4"	133"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
50-3/4"	145"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
50-3/4"	157"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
50-3/4"	175"	98.0
52-3/4"		98.0
56-3/4"		98.0
62-3/4"		98.0
64-3/4"		98.0
68-3/4"		98.0
74-3/4"		98.0
80-3/4"		98.0
50-3/4"	191-5/8"	98.0
52-3/4"		98.0

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



GLASS LIMITS AS PER SIZES SHOWN ON THIS SHEET
FOR MULTIPLE AND SINGLE LITES

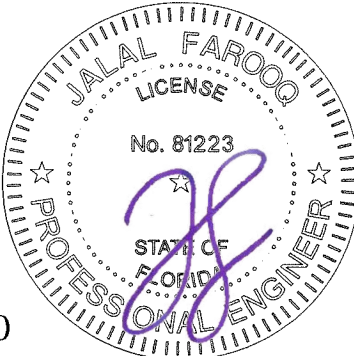


GLASS TYPE 'G3'

GLAZING DETAIL

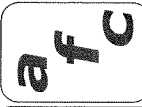
5/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

Sealed: 8/22/2025



GLASS

FL #18410



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:	no	date	by	description

date: 10-30-15
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

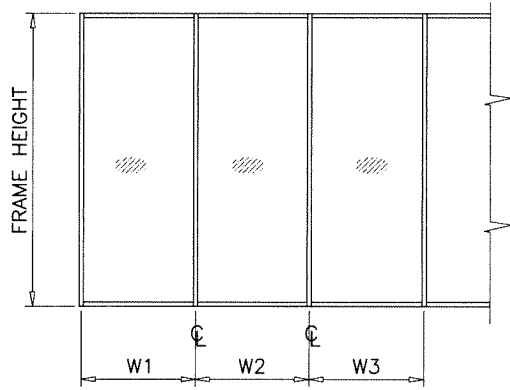
drawing no.
W15-84
sheet 2.1 of 10

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48"	150"	110.0	110.0	–	–
54"		110.0	110.0	–	–
56"		110.0	110.0	–	–
60"		110.0	110.0	–	–
66"		110.0	110.0	–	–
68"		110.0	110.0	–	–
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	156"	110.0	110.0	–	–
54"		110.0	110.0	–	–
56"		110.0	110.0	–	–
60"		110.0	110.0	–	–
66"		110.0	110.0	–	–
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	174"	110.0	110.0	–	–
54"		110.0	110.0	–	–
56"		110.0	110.0	–	–
60"		110.0	110.0	–	–
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	180"	110.0	110.0	–	–
54"		110.0	110.0	–	–
56"		110.0	110.0	–	–
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0

MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48"	187"	110.0	110.0	–	–
54"		110.0	110.0	–	–
56"		108.6	108.6	–	–
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	196–5/8"	66.0	66.0	98.0	98.0
54"		66.0	66.0	98.0	98.0
56"		66.0	66.0	98.0	98.0
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		65.3	65.3	98.0	98.0
90"		61.6	61.6	98.0	98.0

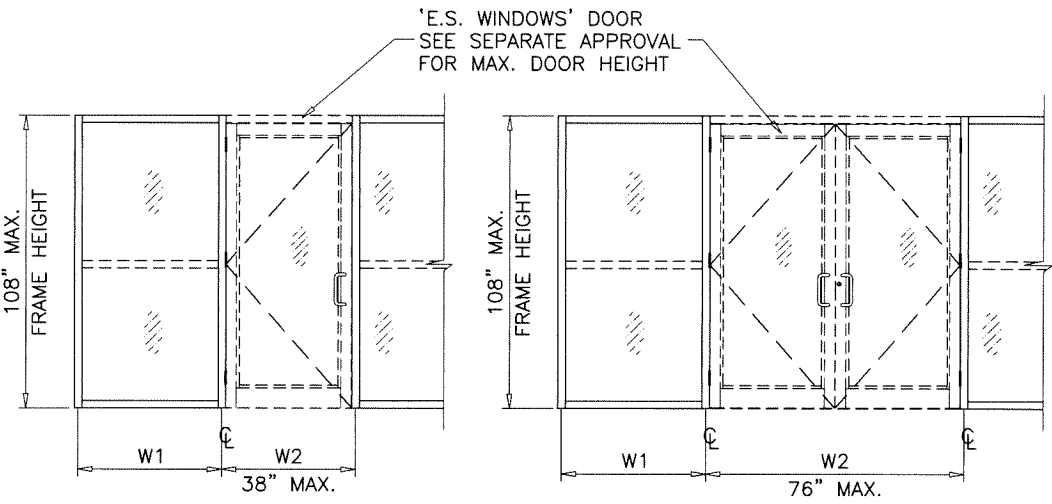
MULLION LOAD CAPACITY – PSF WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J' MULL 'M3'			
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)		
36"	42"	66.0	66.0		
42"		66.0	66.0		
48"		66.0	66.0		
54"		66.0	66.0		
56"		66.0	66.0		
60"		66.0	66.0		
66"		66.0	66.0		
68"		66.0	66.0		
72"		66.0	66.0		
36"	48"	66.0	66.0		
42"		66.0	66.0		
48"		66.0	66.0		
54"		66.0	66.0		
56"		66.0	66.0		
60"		66.0	66.0		
66"		66.0	66.0		
68"		66.0	66.0		
36"	54"	66.0	66.0		
42"		66.0	66.0		
48"		66.0	66.0		
54"		66.0	66.0		
56"		66.0	66.0		
60"		66.0	66.0		
36"	60"	66.0	66.0		
42"		66.0	66.0		
48"		66.0	66.0		
54"		66.0	66.0		
56"		66.0	66.0		
60"		66.0	66.0		
36"	66"	66.0	66.0		
42"		66.0	66.0		
48"		66.0	66.0		
36"	75"	66.0	66.0		
42"		66.0	66.0		

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.



WIDTH (W) = W1
AT JAMB

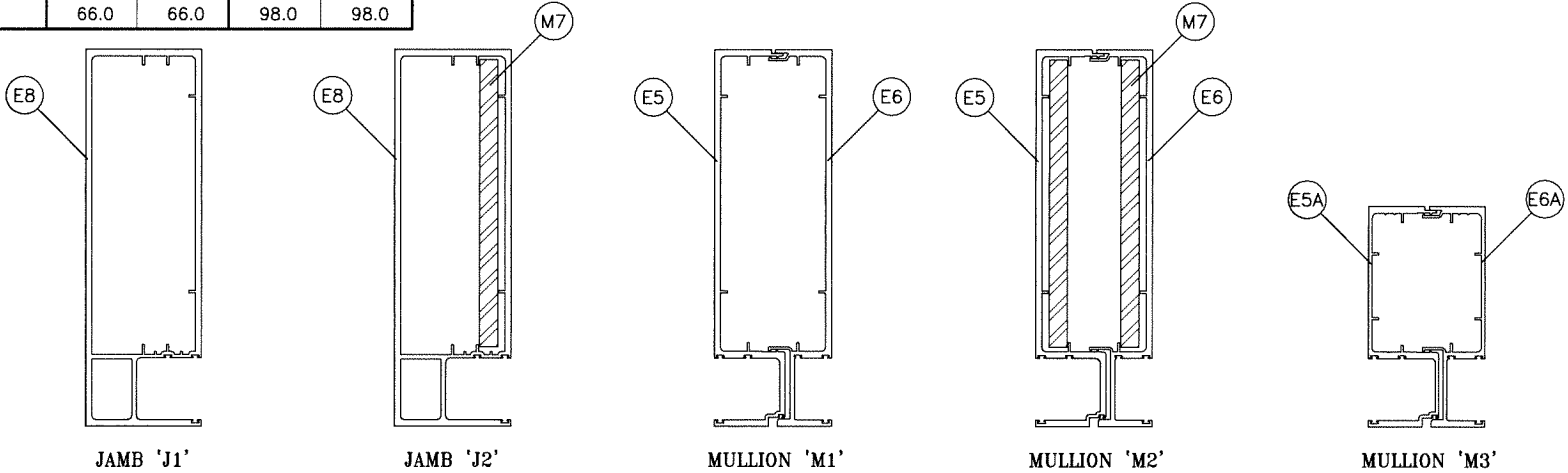
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



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

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

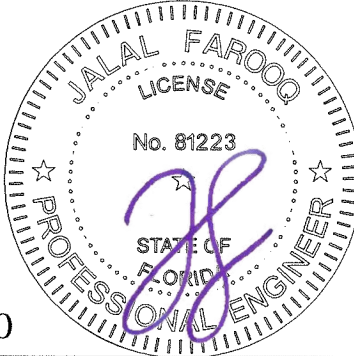
WINDOW WALL SYSTEM WITH OUTSWING DOORS LIMITED TO
MAX. Dp = ±90.0 PSF
MAX. DOOR FRAME HEIGHT = 108"
MAX. DOOR FRAME WIDTH = 76"



JAMB 'J1'		JAMB 'J2'		MULLION 'M1'		MULLION 'M2'		MULLION 'M3'	
Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
64.733	12.096	64.733	12.096	62.476	11.499	62.476	11.499	14.449	4.569
ALUMINUM		STEEL		TOTAL		TOTAL		TOTAL	
Ix ALUM + Ix STL X 2.9		125.978		184.984					

MULLION

FL #18410



AL-FAROOQ CORPORATION
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STORE\W15-84ES

ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:

no	date	by	description

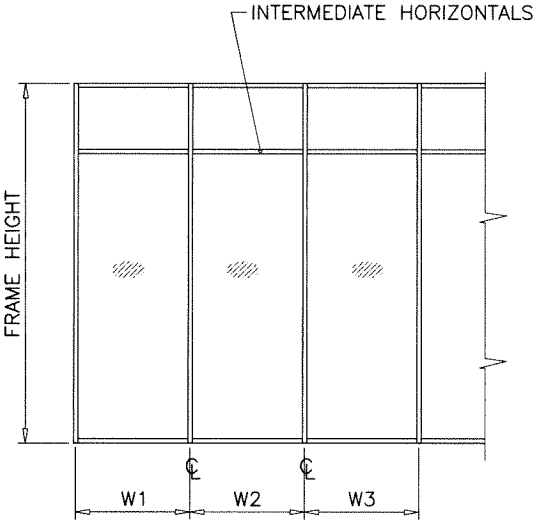
date: 10-30-15
scale: -
dr. by: TARIQ
chk. by: -

drawing no.
W15-84
sheet 3 of 10

MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48"	150"	110.0	110.0	-	-
54"		110.0	110.0	-	-
56"		110.0	110.0	-	-
60"		110.0	110.0	-	-
66"		110.0	110.0	-	-
68"		110.0	110.0	-	-
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	156"	110.0	110.0	-	-
54"		110.0	110.0	-	-
56"		110.0	110.0	-	-
60"		110.0	110.0	-	-
66"		110.0	110.0	-	-
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	174"	110.0	110.0	-	-
54"		110.0	110.0	-	-
56"		110.0	110.0	-	-
60"		110.0	110.0	-	-
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0
48"	180"	110.0	110.0	-	-
54"		110.0	110.0	-	-
56"		110.0	110.0	-	-
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		66.0	66.0	98.0	98.0

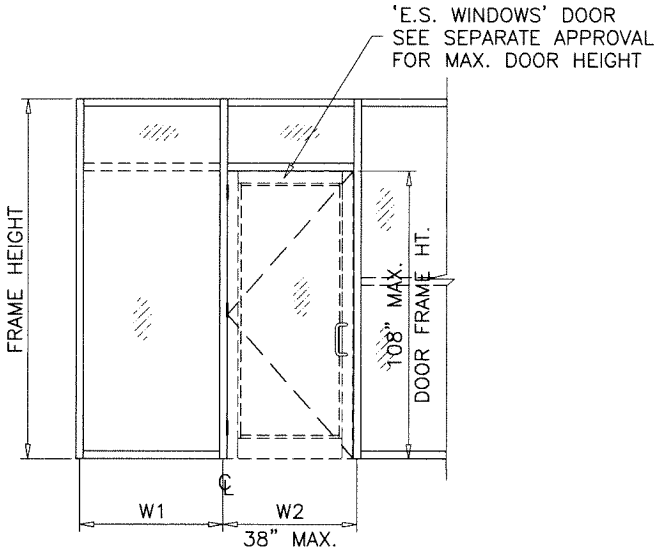
MULLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J2' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
48"	187"	110.0	110.0	-	-
54"		109.4	109.4	-	-
56"		105.5	105.5	-	-
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		66.0	66.0	98.0	98.0
84"		66.0	66.0	98.0	98.0
90"		65.3	65.3	98.0	98.0
48"	196-5/8"	66.0	66.0	98.0	98.0
54"		66.0	66.0	98.0	98.0
56"		66.0	66.0	98.0	98.0
60"		66.0	66.0	98.0	98.0
66"		66.0	66.0	98.0	98.0
68"		66.0	66.0	98.0	98.0
72"		66.0	66.0	98.0	98.0
78"		64.0	64.0	98.0	98.0
84"		59.4	59.4	98.0	98.0
90"		55.5	55.5	98.0	98.0

NOTE:
INTERPOLATION BETWEEN WIDTHS ALLOWED.

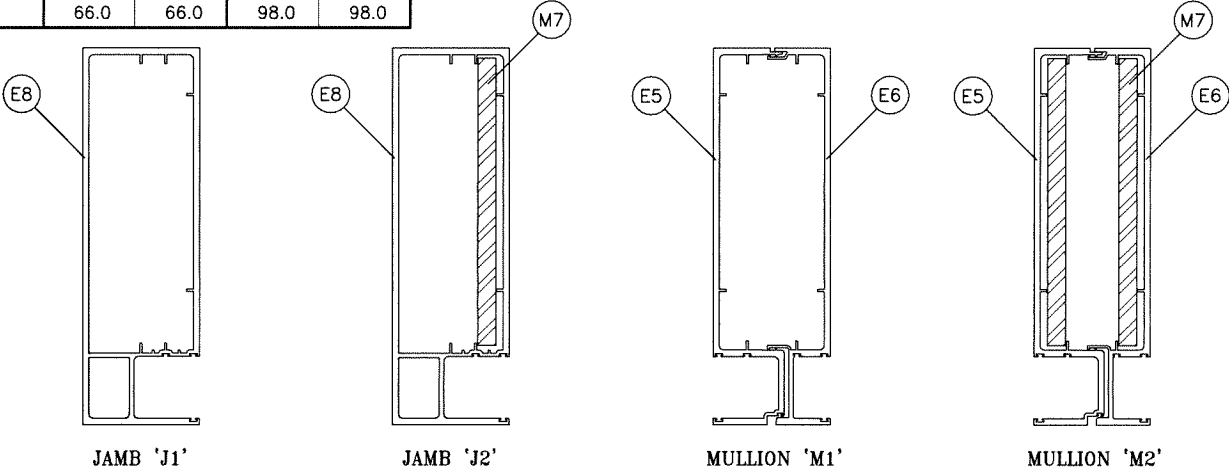


WIDTH (W) = W1
AT JAMB

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



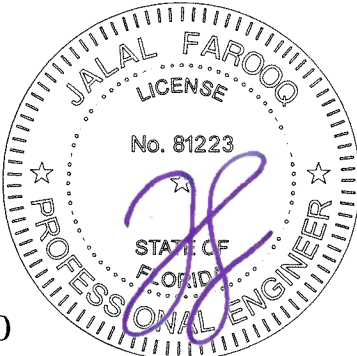
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



JAMB 'J1'		JAMB 'J2'		MULLION 'M1'		MULLION 'M2'	
Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
64.733	12.096	64.733	12.096	62.476	11.499	62.476	11.499
ALUMINUM		STEEL		ALUMINUM		STEEL	
TOTAL		TOTAL		TOTAL		TOTAL	
Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9		Ix ALUM + Ix STL X 2.9	
125.978		125.978		184.984		184.984	

MULLION

FL #18410



ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:	
no	date by description

date: 10-30-15	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
W15-84
sheet 4 of 10

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 W15-84ES

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(–)
76	36	78	144	90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0
	36	84		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0
	36	90		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0
	36	96		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0
	36	102		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0
	36	108		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	68			90.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

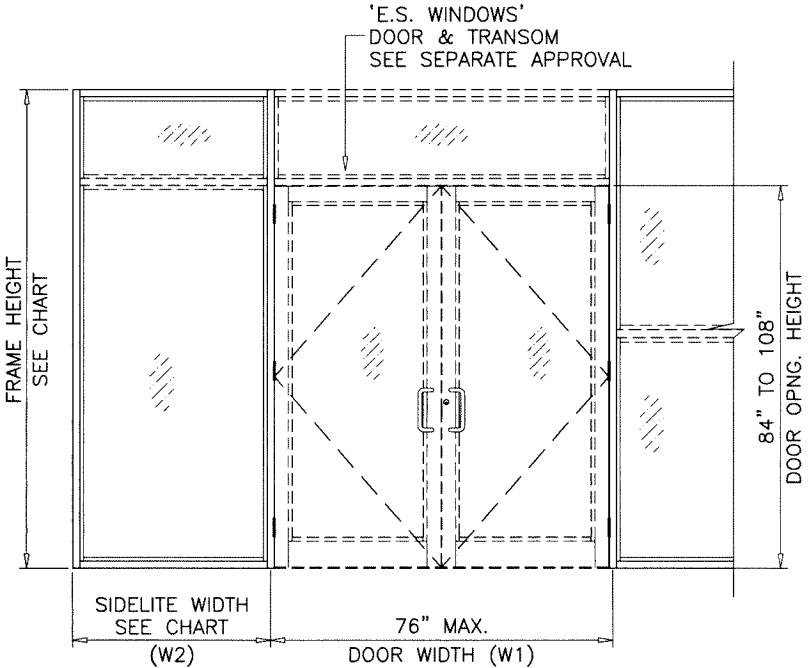
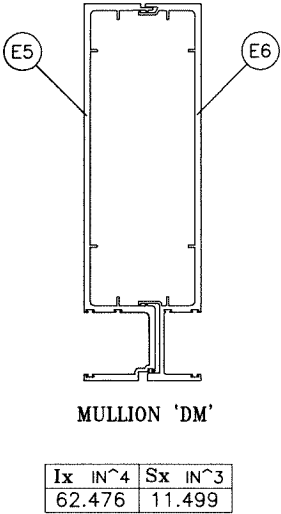
DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DDOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(-)
76	36	78	156	90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	36			84
	42	90.0		
	48	90.0		
	54	90.0		
	56	90.0		
	60	90.0		
	66	90.0		
	36	90		
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	36			96
	42	90.0		
	48	90.0		
	54	90.0		
	56	90.0		
	60	90.0		
	66	90.0		
	36	102		
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	66			90.0
	36			108
	42	90.0		
	48	90.0		
	54	90.0		
	56	90.0		
	60	90.0		
	66	90.0		

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DDOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(-)
76	36	78	168	90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	36	84		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	36	90		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	36	96		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	36	102		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0
	36	108		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	60			90.0

DOOR MULLION LOAD CAPACITY – PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DDOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(–)
76	36	78	180	90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	84		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	90		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	96		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	102		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	108		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0

DOOR MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.				MULL 'DM'
WIDTH (W1) INCHES	WIDTH (W2) INCHES	DDOR HEIGHT INCHES	FRAME HEIGHT INCHES	EXT.(+) INT.(-)
76	36	78	187	90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0
	36	84		90.0
	42			90.0
	48			90.0
	54			90.0
	56			89.7
	36	90		90.0
	42			90.0
	48			90.0
	54			90.0
	56			89.5
	36	96		90.0
	42			90.0
	48			90.0
	54			90.0
	56			89.5
	36	102		90.0
	42			90.0
	48			90.0
	54			90.0
	56			89.7
	36	108		90.0
	42			90.0
	48			90.0
	54			90.0
	56			90.0

WINDOW WALL SYSTEM WITH OUTSWING DOORS LIMITED TO
MAX. Dp = ±90.0 PSF
MAX. DOOR FRAME HEIGHT = 108"
MAX. DOOR FRAME WIDTH = 76"

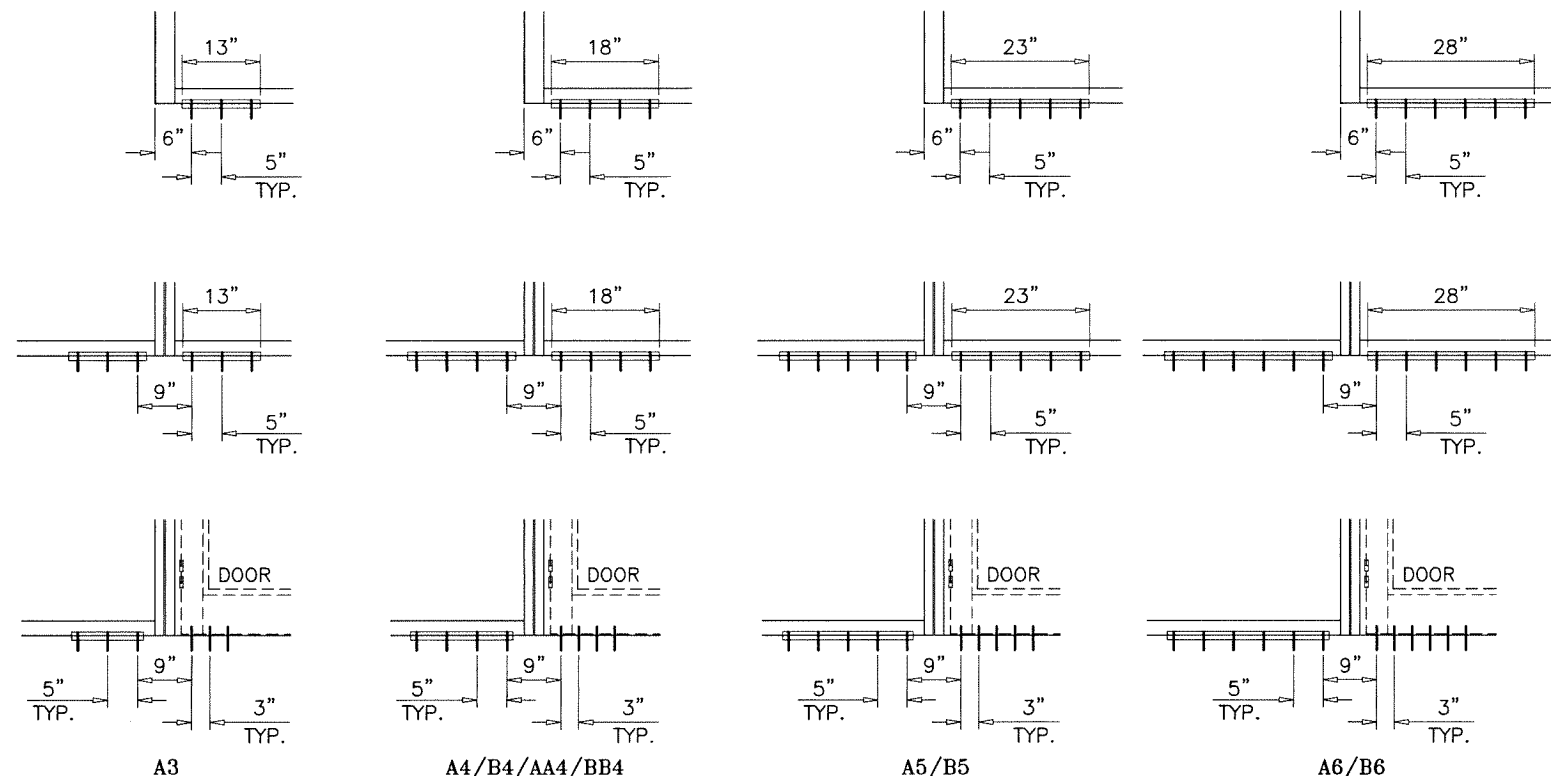


revisions:	
no	description

date: 10-30-15	scale: -	dr. by: TARIQ	chk. by:
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drawing no.
W15-84
sheet 5 of 10

METAL STRUCTURES NOT BY 'E.S. WDW.'
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.



- TYPICAL ANCHORS:** SEE ELEV. FOR SPACING
- TYPE 'A' - 5/16" DIA. ULTRACON BY 'DEWALT'** ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE (3500 PSI MIN.)
2" MIN. EMBED INTO CONCRETE
5" MIN. SPACING
3-1/8" MIN. EDGE DISTANCE
- TYPE 'B' - 5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS** ($F_u=120$ KSI, $F_y=95$ KSI)
INTO STEEL STRUCTURES
1/4" THK. MIN. ($F_y = 36$ KSI MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
3" MIN. SPACING
1" MIN. EDGE DISTANCE
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
- TYPE 'AA' - 3/8" DIA. ConFlex BY 'DEWALT'** ($F_u=120$ KSI, $F_y=92$ KSI)
DIRECTLY INTO CONCRETE (3000 PSI MIN.)
3-1/2" MIN. EMBED INTO CONCRETE
5" MIN. SPACING
3-3/4" MIN. EDGE DISTANCE
- TYPE 'AA' - 3/8" DIA. SCREW-BOLT+ BY 'DEWALT'**
DIRECTLY INTO CONCRETE (4000 PSI MIN.)
3-1/4" MIN. EMBED INTO CONCRETE
5" MIN. SPACING
4-1/2" MIN. EDGE DISTANCE
- TYPE 'BB' - 3/8" DIA. Tap Flex SELF DRILLING SCREWS** (GRADE 5 CRS)
INTO STEEL STRUCTURES
1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

NOTE:
ANCHOR TORQUED AND OTHERWISE INSTALLED AS
PER MANUFACTURER SPECIFICATIONS.

ANCHORS TYPES:

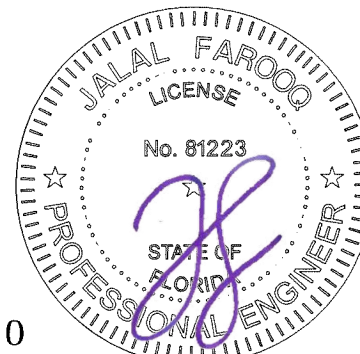
- A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A6 = (6) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B6 = (6) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
AA4 = (4) ANCHORS TYPE 'AA' AT EACH SIDE OF JAMB AND MULLION
BB4 = (4) ANCHORS TYPE 'BB' AT EACH SIDE OF JAMB AND MULLION

SEE SHEET 5.1 FOR ANCHOR CAPACITIES

Sealed: 8/22/2025

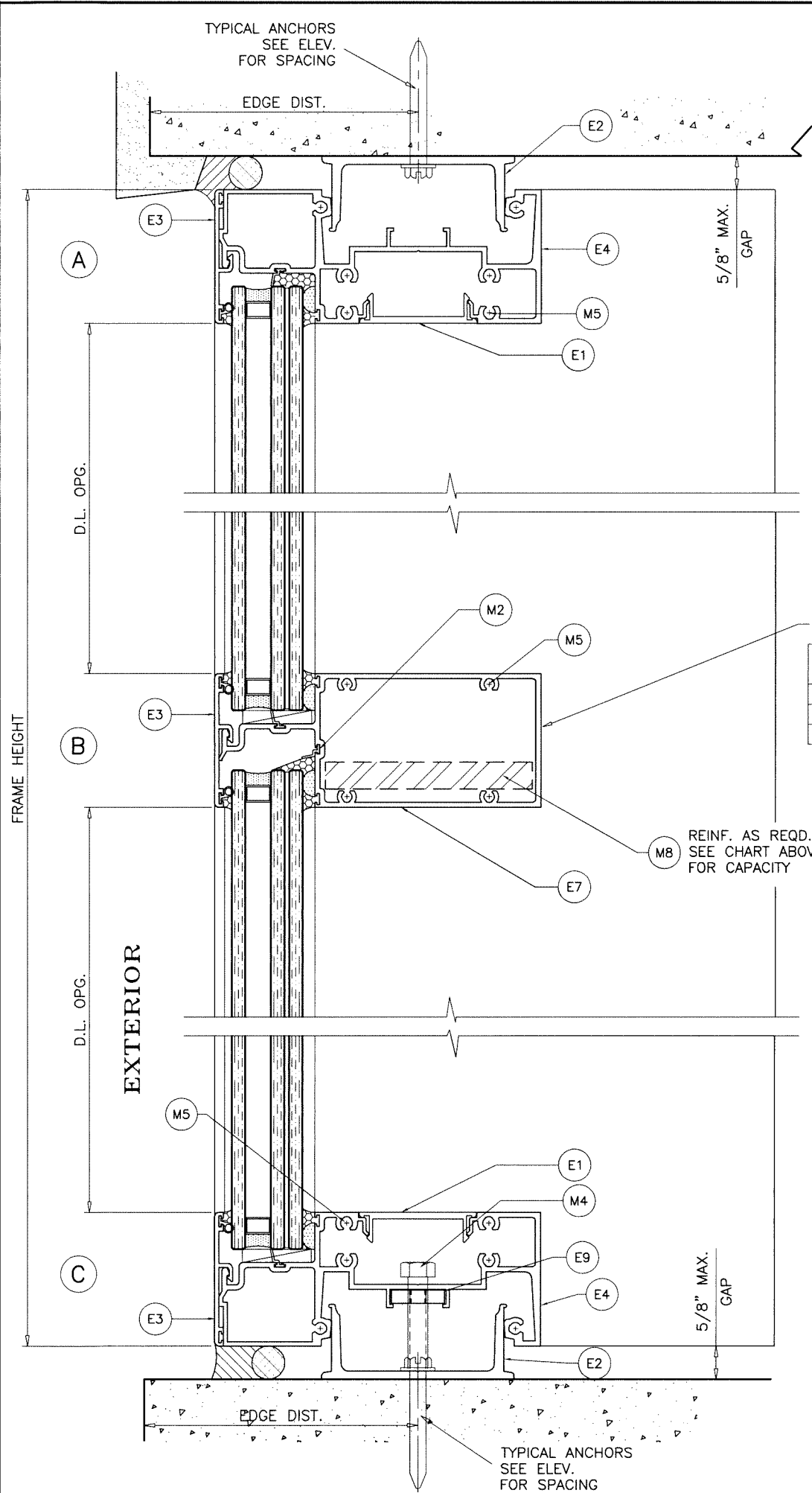
ANCHOR

FL #18410



ANCHORS LOAD CAPACITY - PSF EXT.(+) & INT.(−)										
NOMINAL DIMS.		ANCHOR TYPE 'A'				ANCHOR TYPE 'B'			TYPE 'AA'	TYPE 'BB'
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	A6	B4	B5	B6	AA4	BB4
54"	132"	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		109.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
68"		106.4	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72"		100.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
78"		92.8	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
84"		86.1	110.0	110.0	110.0	105.5	110.0	110.0	110.0	110.0
90"		80.4	107.2	110.0	110.0	98.4	110.0	110.0	110.0	110.0
54"	138"	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		104.9	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
68"		101.8	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72"		96.1	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
78"		88.7	110.0	110.0	110.0	108.6	110.0	110.0	110.0	110.0
84"		82.4	109.8	110.0	110.0	100.9	110.0	110.0	110.0	110.0
90"		76.9	102.5	110.0	110.0	94.2	110.0	110.0	110.0	110.0
54"	144"	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		110.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
68"		97.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72"		92.1	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
78"		85.0	110.0	110.0	110.0	104.1	110.0	110.0	110.0	110.0
84"		79.0	105.3	110.0	110.0	96.7	110.0	110.0	110.0	110.0
90"		73.7	98.3	110.0	110.0	90.2	110.0	110.0	110.0	110.0
54"	150"	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		106.1	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		96.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
68"		93.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72"		88.4	110.0	110.0	110.0	108.1	110.0	110.0	110.0	110.0
78"		81.6	108.8	110.0	110.0	99.9	110.0	110.0	110.0	110.0
84"		75.8	101.1	110.0	110.0	92.8	110.0	110.0	110.0	110.0
90"		70.7	94.3	110.0	110.0	86.6	108.3	110.0	110.0	110.0
54"	156"	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		109.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		102.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		92.8	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
68"		90.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
72"		85.0	110.0	110.0	110.0	104.1	110.0	110.0	110.0	110.0
78"		78.5	104.6	110.0	110.0	96.1	110.0	110.0	110.0	110.0
84"		72.9	97.2	110.0	110.0	89.2	110.0	110.0	110.0	110.0
90"		68.0	90.7	110.0	110.0	83.3	104.1	110.0	110.0	110.0
54"	162"	109.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		105.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		98.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		89.3	110.0	110.0	110.0	109.4	110.0	110.0	110.0	110.0
68"		86.7	110.0	110.0	110.0	106.2	110.0	110.0	110.0	110.0
72"		81.9	109.2	110.0	110.0	100.3	110.0	110.0	110.0	110.0
78"		75.6	100.8	110.0	110.0	92.5	110.0	110.0	110.0	110.0
84"		70.2	93.6	110.0	110.0	85.9	107.4	110.0	110.0	110.0
90"		65.5	87.3	109.2	110.0	80.2	100.3	110.0	110.0	110.0

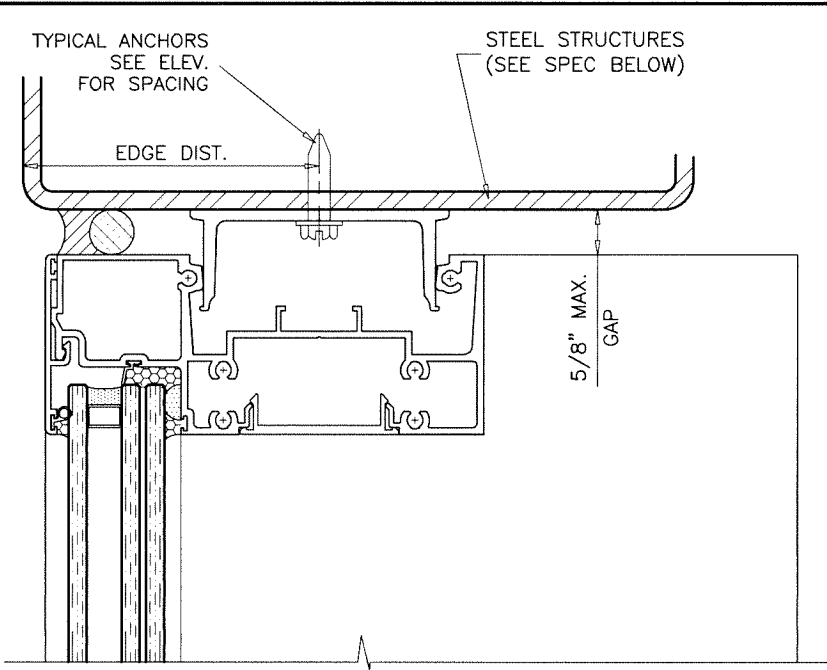
ANCHORS LOAD CAPACITY – PSF EXT.(+) & INT.(–)										
NOMINAL DIMS.		ANCHOR TYPE 'A'				ANCHOR TYPE 'B'			TYPE 'AA'	TYPE 'BB'
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	A6	B4	B5	B6	AA4	BB4
54"	168"	105.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		101.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		94.7	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		86.1	110.0	110.0	110.0	105.5	110.0	110.0	110.0	110.0
68"		83.6	110.0	110.0	110.0	102.4	110.0	110.0	110.0	110.0
72"		79.0	105.3	110.0	110.0	96.7	110.0	110.0	110.0	110.0
78"		72.9	97.2	110.0	110.0	89.2	110.0	110.0	110.0	110.0
84"		67.7	90.2	110.0	110.0	82.9	103.6	110.0	110.0	110.0
90"		63.2	84.2	105.3	110.0	77.3	96.7	110.0	110.0	110.0
54"	174"	101.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		98.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		91.5	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
66"		83.2	110.0	110.0	110.0	101.8	110.0	110.0	110.0	110.0
68"		80.7	107.6	110.0	110.0	98.8	110.0	110.0	110.0	110.0
72"		76.2	101.6	110.0	110.0	93.3	110.0	110.0	110.0	110.0
78"		70.4	93.8	110.0	110.0	86.2	107.7	110.0	110.0	110.0
84"		65.3	87.1	108.9	110.0	80.0	100.0	110.0	110.0	110.0
90"		61.0	81.3	101.6	110.0	74.7	93.3	110.0	110.0	110.0
54"	180"	98.3	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		94.7	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		88.4	110.0	110.0	110.0	108.3	110.0	110.0	110.0	110.0
66"		80.4	107.2	110.0	110.0	98.4	110.0	110.0	110.0	110.0
68"		78.0	104.0	110.0	110.0	95.5	110.0	110.0	110.0	110.0
72"		73.7	98.3	110.0	110.0	90.2	110.0	110.0	110.0	110.0
78"		68.0	90.7	110.0	110.0	83.3	104.1	110.0	110.0	110.0
84"		63.2	84.2	105.3	110.0	77.3	96.7	110.0	110.0	110.0
90"		59.0	78.6	98.3	110.0	72.2	90.2	108.3	110.0	110.0
54"	187"	94.6	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		91.2	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
60"		85.1	110.0	110.0	110.0	104.2	110.0	110.0	110.0	110.0
66"		77.4	103.2	110.0	110.0	94.7	110.0	110.0	110.0	110.0
68"		75.1	100.1	110.0	110.0	92.0	110.0	110.0	110.0	110.0
72"		70.9	94.6	110.0	110.0	86.9	108.6	110.0	110.0	110.0
78"		65.5	87.3	109.1	110.0	80.2	100.2	110.0	110.0	110.0
84"		60.8	81.1	101.3	110.0	74.4	93.1	110.0	110.0	110.0
90"		56.7	75.7	94.6	110.0	69.5	86.9	104.2	110.0	110.0
54"	192"	92.1	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		88.8	110.0	110.0	110.0	108.8	110.0	110.0	110.0	110.0
60"		82.9	110.0	110.0	110.0	101.5	110.0	110.0	110.0	110.0
66"		75.4	100.5	110.0	110.0	92.3	110.0	110.0	110.0	110.0
68"		73.1	97.5	110.0	110.0	89.6	110.0	110.0	110.0	110.0
72"		69.1	92.1	110.0	110.0	84.6	105.7	110.0	110.0	110.0
78"		63.8	85.0	106.3	110.0	78.1	97.6	110.0	110.0	110.0
84"		59.2	79.0	98.7	110.0	72.5	90.6	108.8	110.0	110.0
90"		55.3	73.7	92.1	110.0	67.7	84.6	101.5	110.0	110.0
54"	196–5/8"	89.9	110.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0
56"		86.7	110.0	110.0	110.0	106.2	110.0	110.0	110.0	110.0
60"		80.9	107.9	110.0	110.0	99.1	110.0	110.0	110.0	110.0
66"		73.6	98.1	110.0	110.0	90.1	110.0	110.0	110.0	110.0
68"		71.4	95.2	110.0	110.0	87.5	109.3	110.0	110.0	110.0
72"		67.5	89.9	110.0	110.0	82.6	103.3	110.0	110.0	110.0
78"		62.3	83.0	103.8	110.0	76.2	95.3	110.0	110.0	110.0
84"		57.8	77.1	96.4	110.0	70.8	88.5	106.2	110.0	110.0
90"		54.0	72.0	89.9	107.9	66.1	82.6	99.1	110.0	110.0



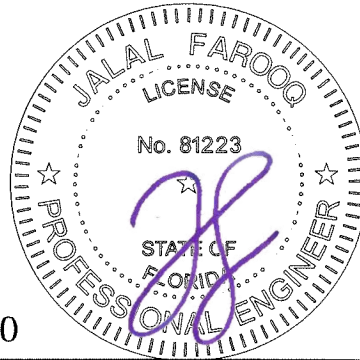
LIMIT MAX. DESIGN LOADS
FOR HORIZONTAL AS FOLLOWS

HORIZ. SPAN MAX.	LOAD CAPACITY - PSF	
	W/O REINF.	WITH REINF.
66"	110.0	110.0
78"	98.0	98.0
90"	69.1	98.0

M8 REINF. AS REQD.
SEE CHART ABOVE
FOR CAPACITY



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FL #18410

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

af c

STORE W15-84ES

ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

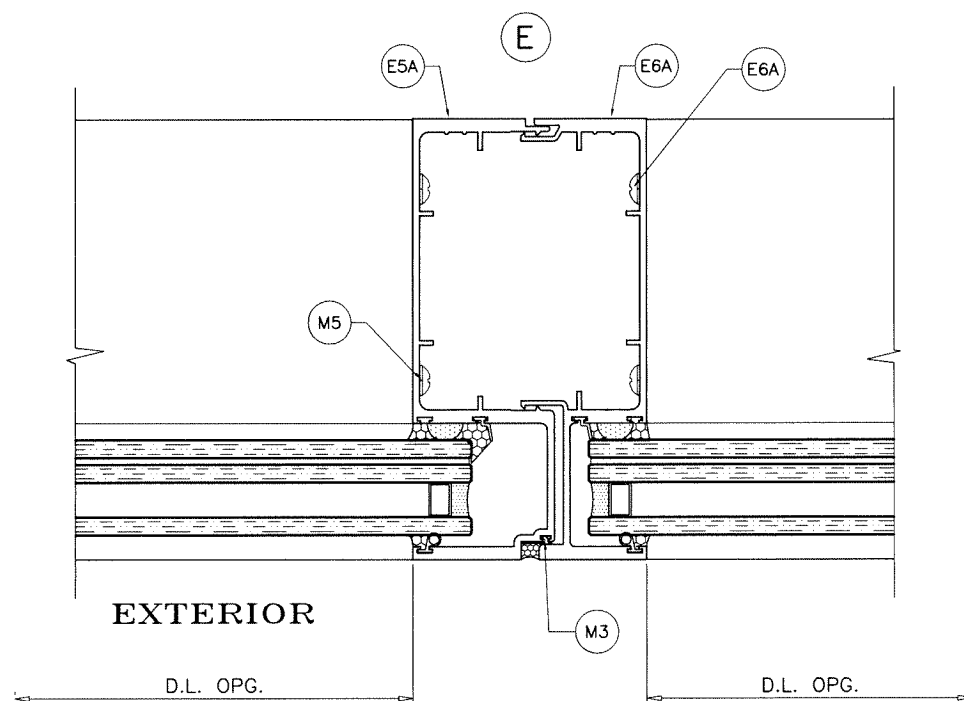
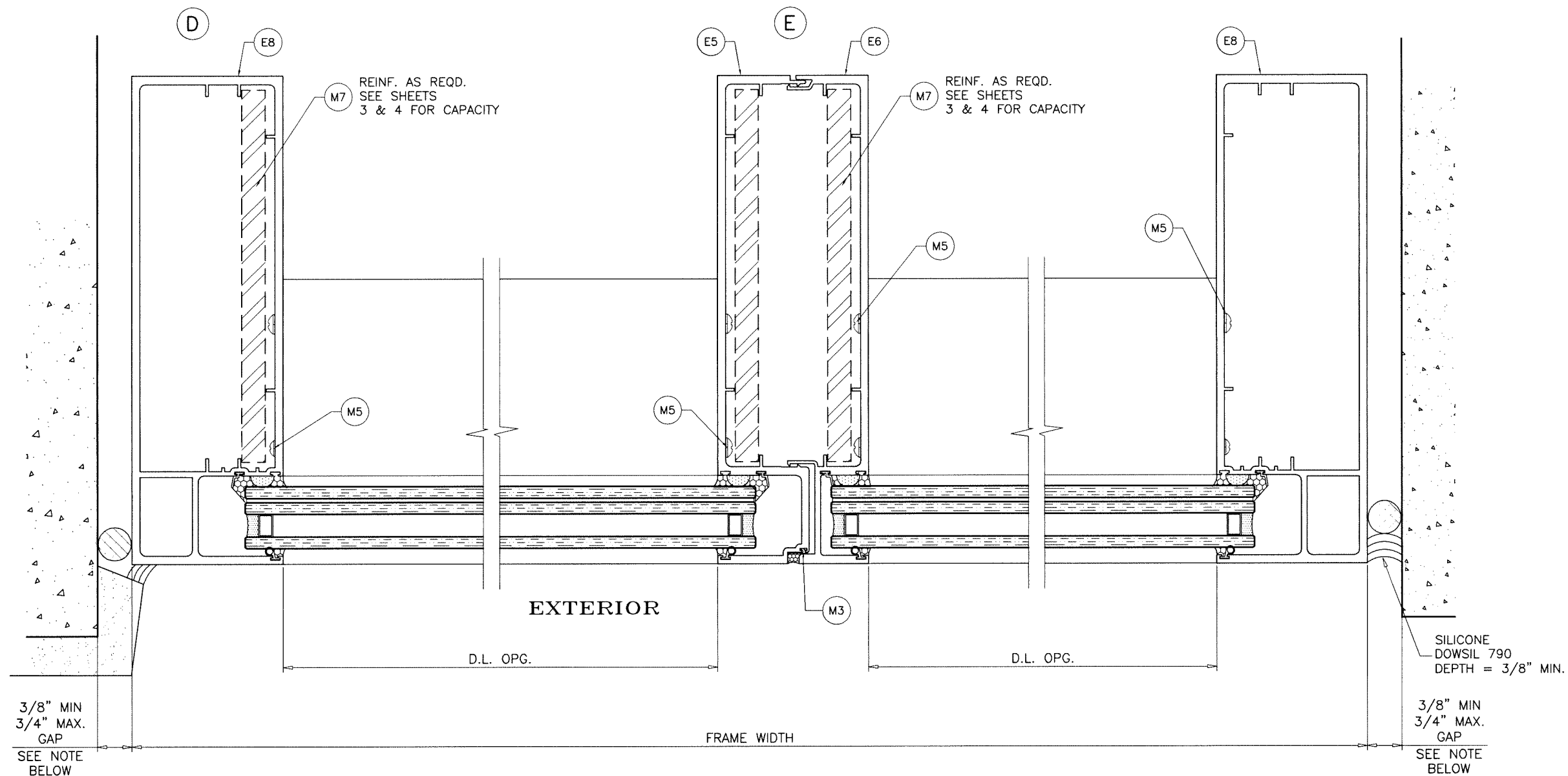
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:

no	date	by	description

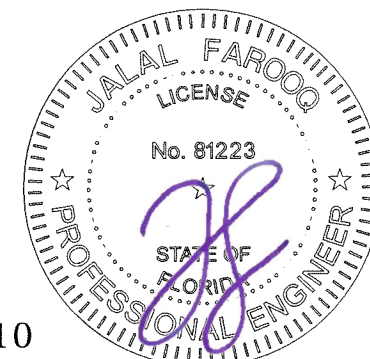
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dr. by: TARIQ
chk. by:

drawing no.
W15-84
sheet 6 of 10



NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
 MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL
 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.

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revisions:	no	date	by	description

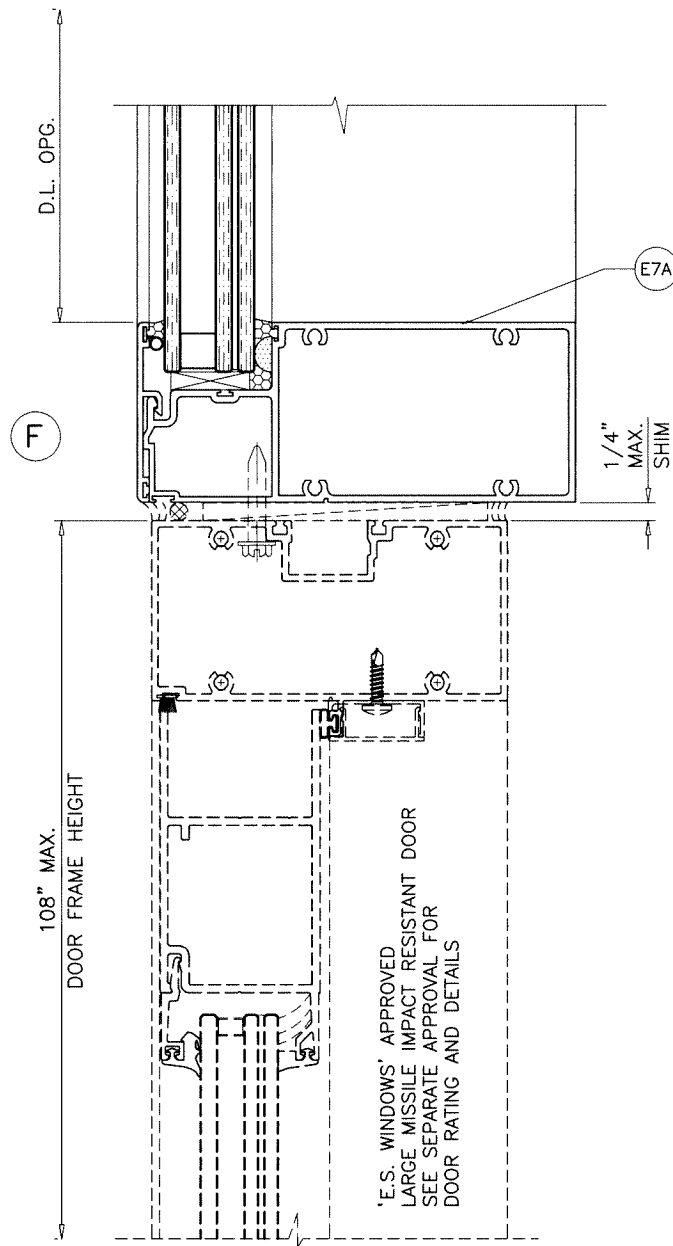
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W15-84

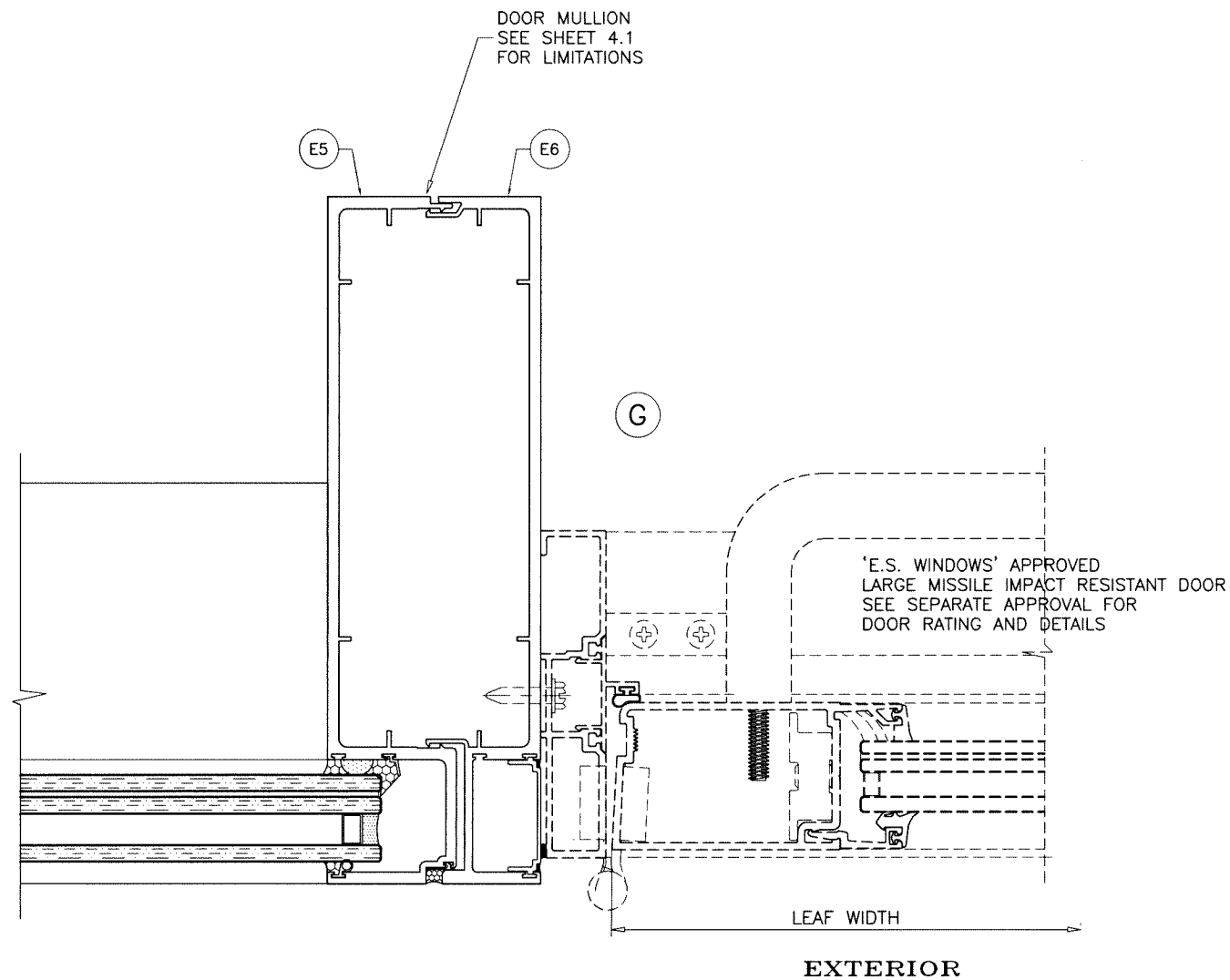
sheet 7 of 10

STORE\W15-84ES

EXTERIOR



SEE SEPARATE APPROVAL FOR DESIGN LOAD CAPACITY OF
'E.S. WINDOWS' DOORS AND DOOR ANCHORS.
LOWER VALUES FROM DOORS APPROVAL OR WINDOWALL
SYSTEM CAPACITY CHARTS WILL APPLY TO ENTIRE SYSTEM.
(MAX. Dp WITH DOOR = ± 90.0 PSF)



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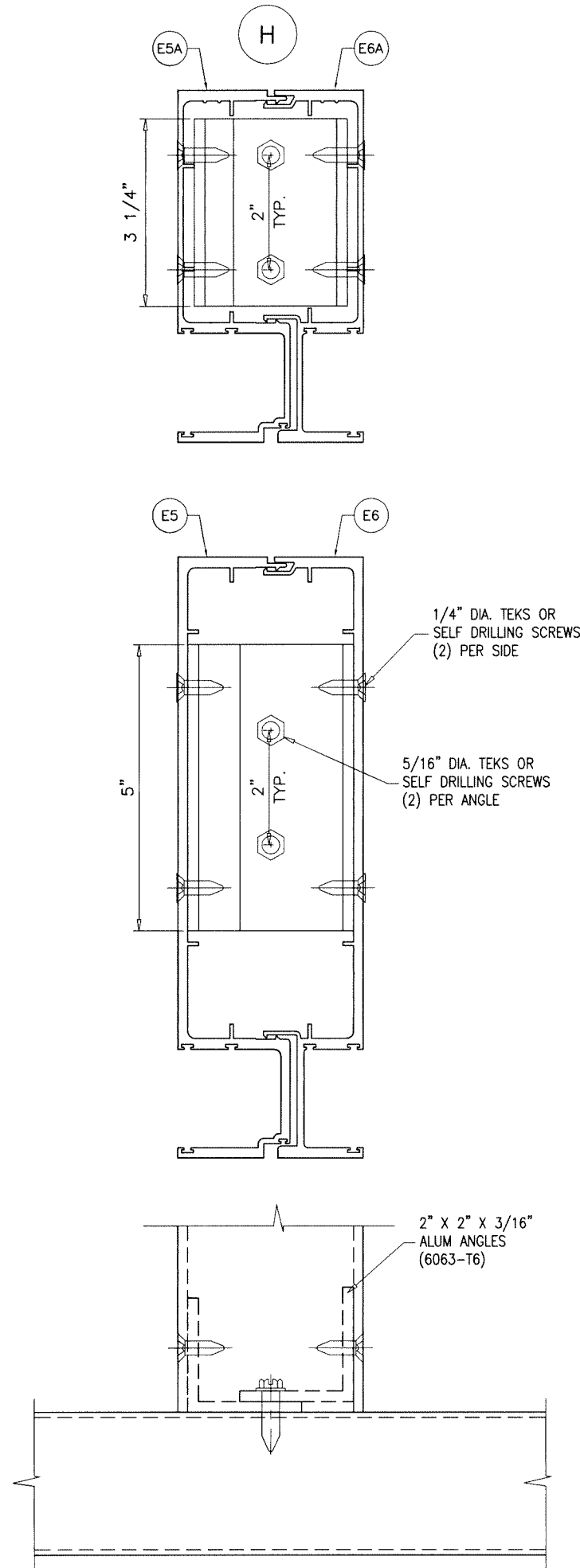
E.S. WINDOWS, LLC
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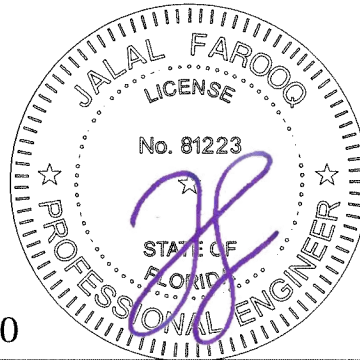
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STORE W15-84ES

ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.)

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no	date by description

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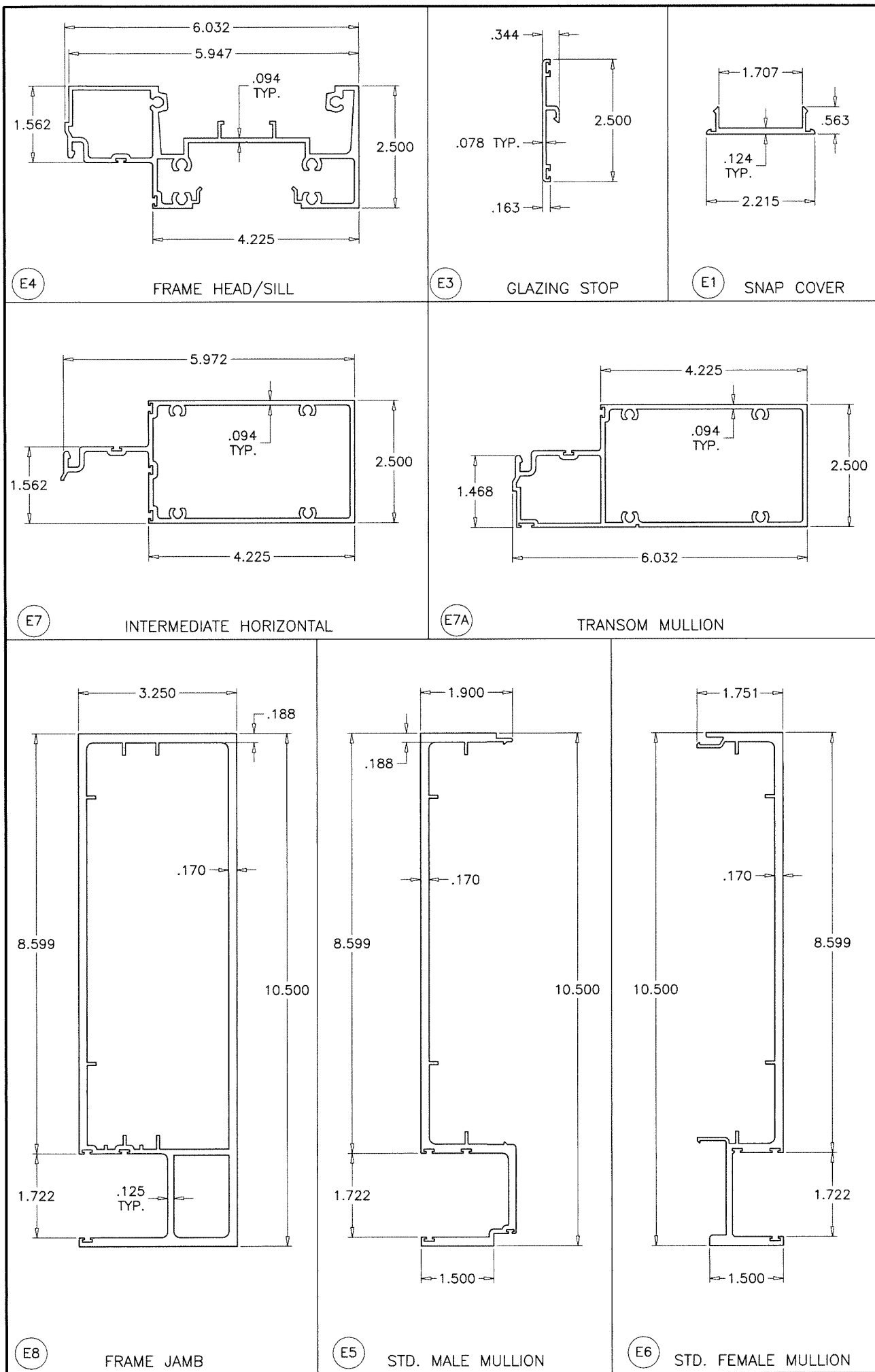
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chk. by:

drawing no.

W15-84

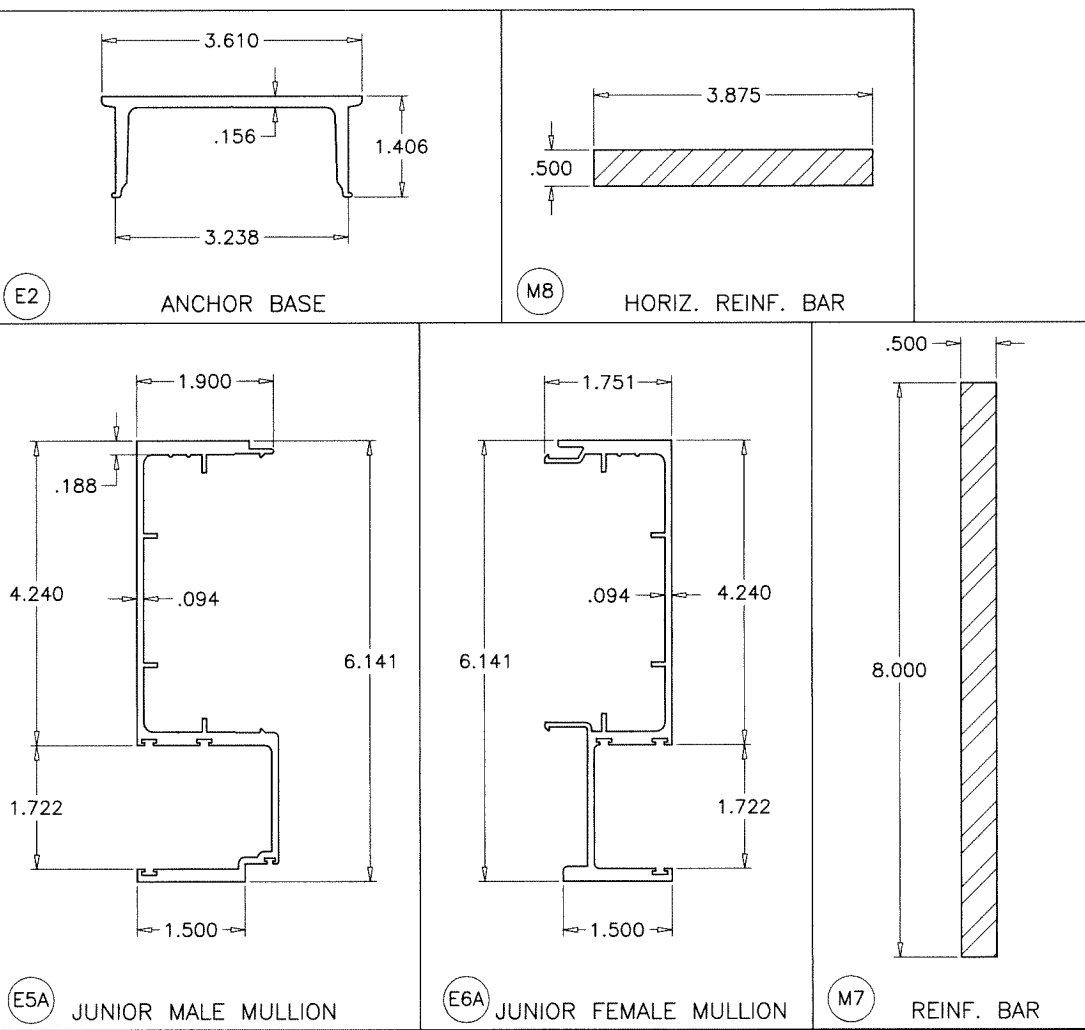
sheet **8.1** of 10



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-7003A	AS REQD.	SNAP COVER	6063-T5	-
E2	ES-7004	AS REQD.	ANCHOR BASE (SEE SHEET 5 FOR LENGTHS)	6005-T5	-
E3	ES-7006	AS REQD.	GLAZING STOP	6063-T6	-
E4	ES-7021-I	AS REQD.	FRAME HEAD/SILL	6005-T5	-
E5	ES-WW1032-053	AS REQD.	STD. MALE MULLION	6005-T5	-
E5A	ES-7023	AS REQD.	JUNIOR MALE MULLION	6005-T5	-
E6	ES-WW1032-052	AS REQD.	STD. FEMALE MULLION	6005-T5	-
E6A	ES-7024	AS REQD.	JUNIOR FEMALE MULLION	6005-T5	-
E7	ES-7022	AS REQD.	INTERMEDIATE HORIZONTAL	6005-T5	-
E7A	ES-7027	AS REQD.	TRANSOM MULLION	6005-T5	-
E8	ES-WW1032-054	AS REQD.	FRAME JAMB	6005-T5	-
E9	ALU-P-020	AS REQD.	SILL LEVELER (1" X 1")	6063-T6	-
M1	ES7000-G01A S	AS REQD.	EXTERIOR GLASS SEAL	SILICONE	DUROMETER 65±5 SHORE A
M2	ES7000-G02	AS REQD.	SILICONE DAM	SANTOPRENE	DUROMETER 65±5 SHORE A
M3	ES7000-G03	AS REQD.	SILICONE SEPARATOR	SANTOPRENE	DUROMETER 65±5 SHORE A
M4	3/8-16 X 2"	AS REQD.	LEVELING SCREW	ST/ST	HWH
M5	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH SMS
M6	ES-8011A	AS REQD.	BUMPON SPACER	SILICONE	DUROMETER 80±5 SHORE A
M7	-	AS REQD.	JAMB/MULLION REINF. BAR	STEEL	A36, Fu MIN. 58 KSI
M8	-	AS REQD.	HORIZONTAL REINF. BAR	STEEL	A36, Fu MIN. 58 KSI
M9	ES-7530	2/ LITE	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
M10	80-372A	2/ LITE	SIDE BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.



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FL #18410



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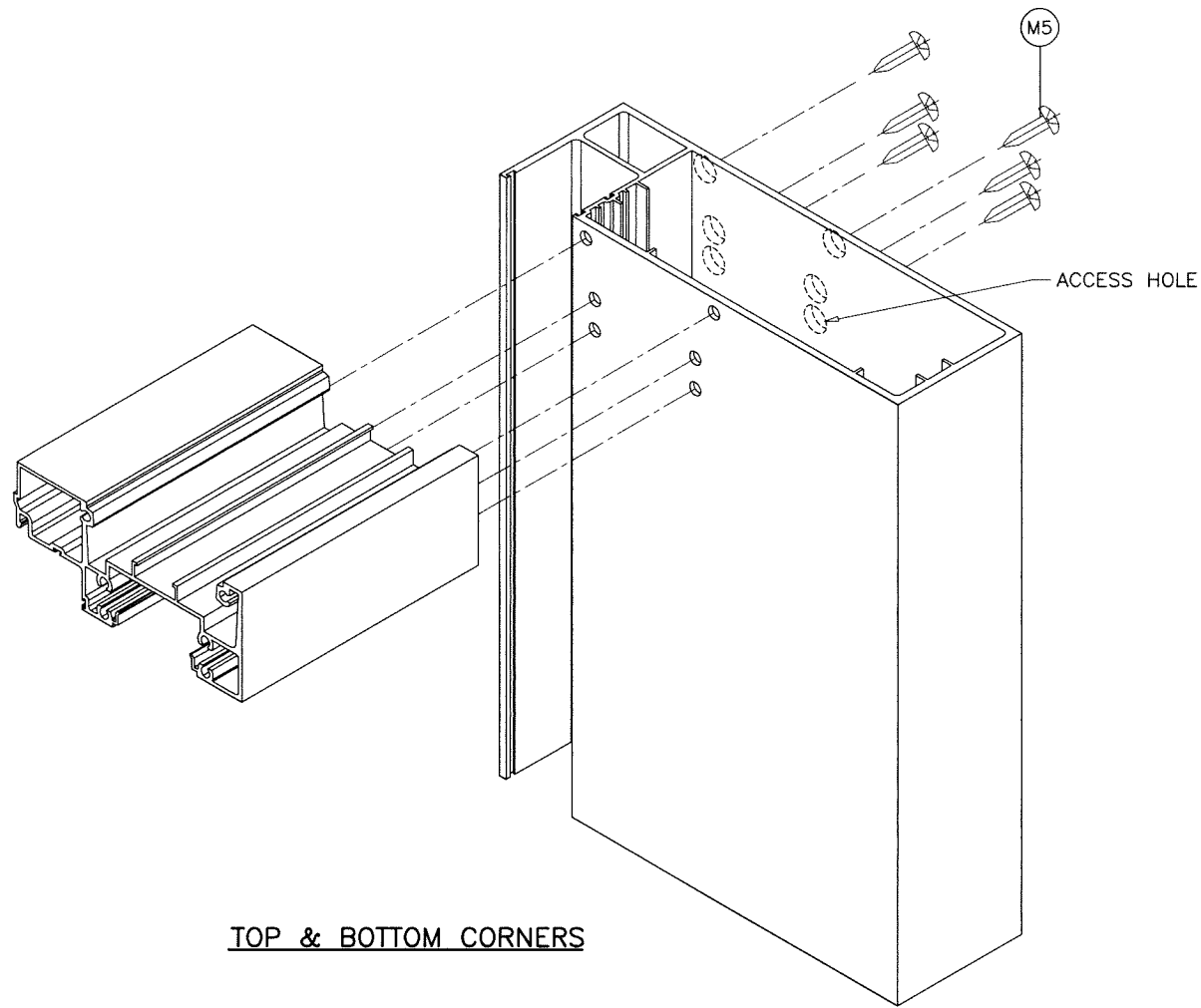
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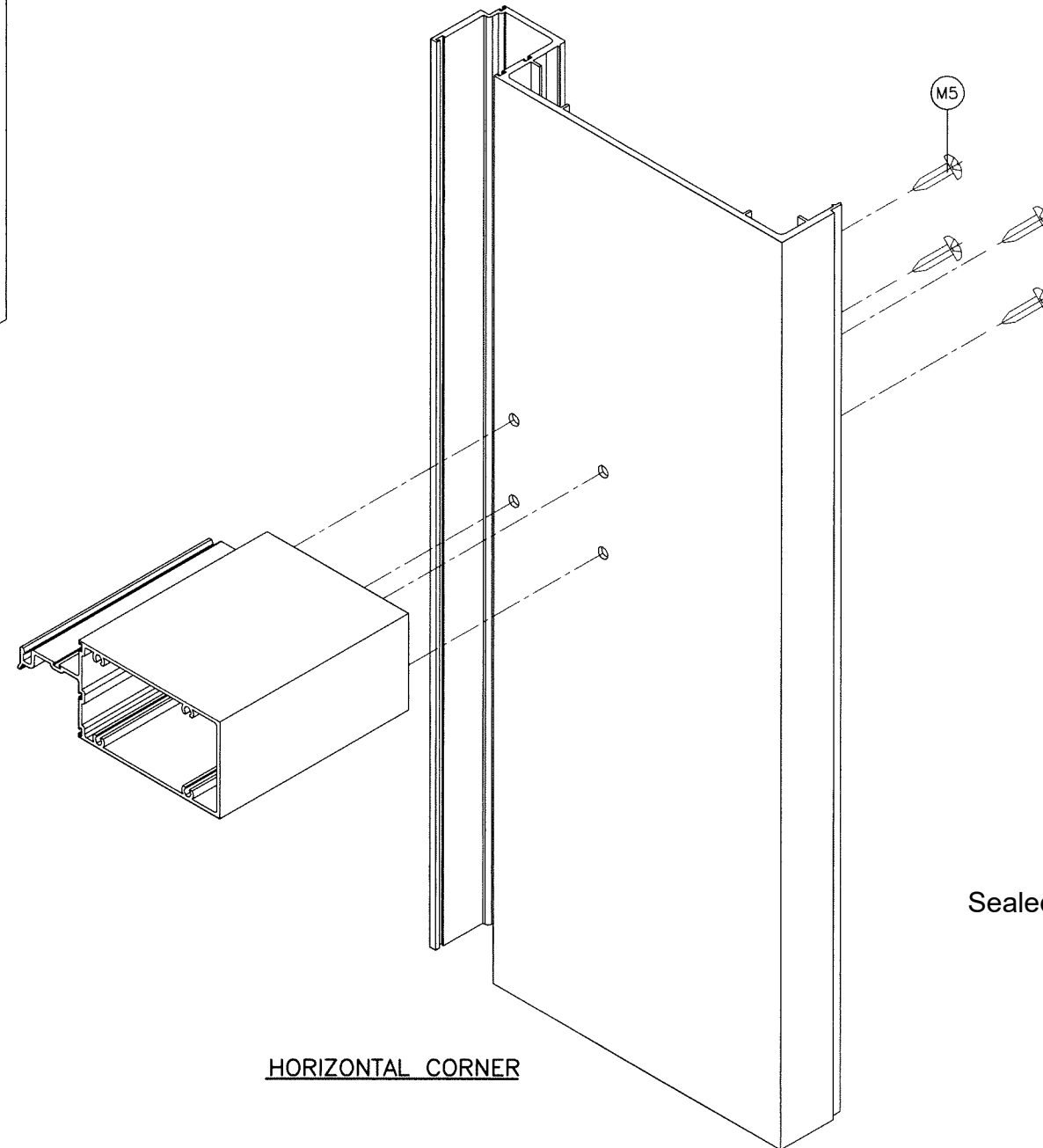
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drawing no.
W15-84

sheet 9 of 10



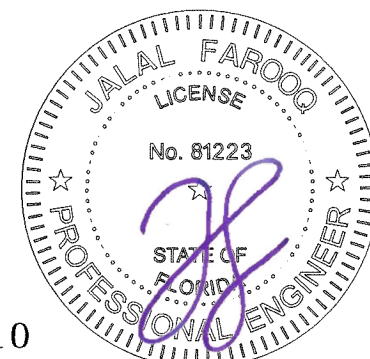
TOP & BOTTOM CORNERS



HORIZONTAL CORNER

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FL #18410



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ES-WW1032i ALUM WINDOW WALL SYSTEM (L.M.I.) E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions: no date by description	date: 10-30-15 scale: -- dr. by: TARIQ chk. by:
drawing no. W15-84	
sheet 10 of 10	