SERIES RWW–7000XL–3
ALUMINUM WINDOW WALL 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)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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 SHEET 3 FOR GLASS DESIGN LOAD CAPACITY.

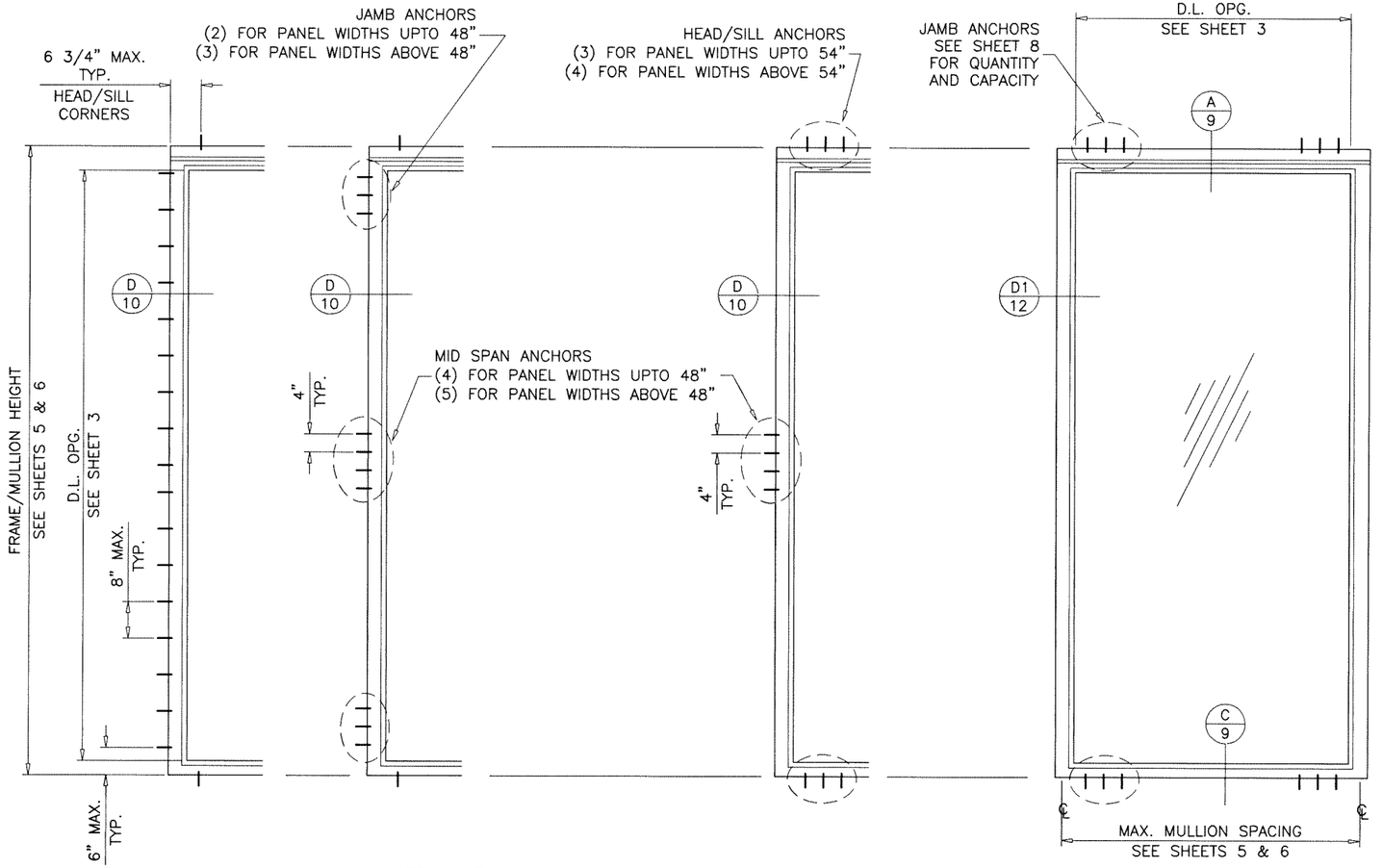
STEP 3 CHECK FREE STANDING JAMB DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5 THRU 5.3.
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4 CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 6 THRU 6.3 FOR WINDOW WALL MULLION AND SHEET 7 FOR DOOR MULLION.
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 5 CHECK ANCHOR CAPACITY FOR WINDOW WALL SYSTEM USING CHARTS ON SHEETS 8 THRU 8.2.
THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

STEP 7 FOR UNANCHORED JAMBS, USING SHEET 12, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.



ANCHORED JAMB OPTION #1
CONCRETE
BLOCK
METAL STRUCTURE

ANCHORED JAMB OPTION #2
CONCRETE
BLOCK
METAL STRUCTURE

ANCHORED JAMB OPTION #3
CONCRETE
BLOCK
METAL STRUCTURE

BAY WINDOWS UNANCHORED JAMB

TYPICAL ELEVATION
TYPICAL ELEVATION

THIS SYSTEM IS RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

INSUL. LAM. GLASS
SMALL MISSILE IMPACT

Sealed: 4/30/2025

FL #47097

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.

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

STORE\25–27F–RWW

RWW–7000 XL–3 ALUMINUM WINDOW WALL SYS. (S.M.I.)

REFLECTION WINDOW + WALL
2525 North Elston Avenue
Chicago, Illinois 60647
Phone: 773 770 0377 www.reflectionwindow.com

revisions:

no	date	by	description

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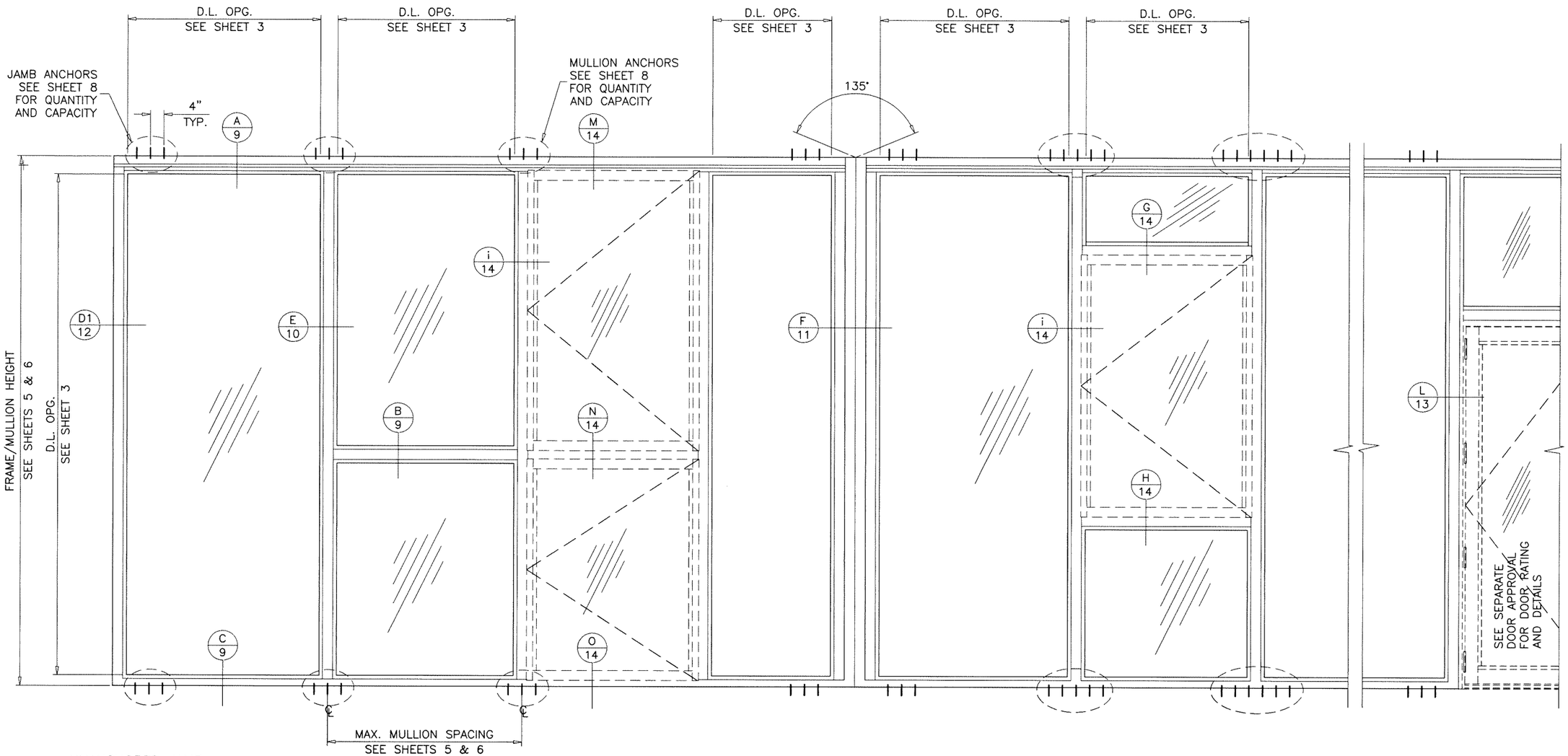
scale: 3/8"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. 25–27F

sheet 1 of 17



UNANCHORED JAMB

SEE SHEET 1
FOR ANCHORED JAMBS
OPTIONS

TYPICAL ELEVATION

Sealed: 4/30/2025

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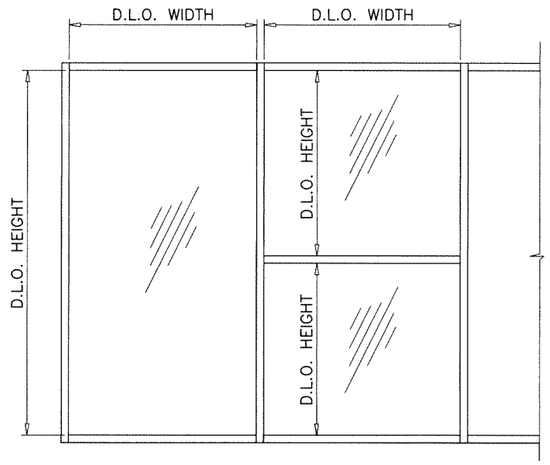
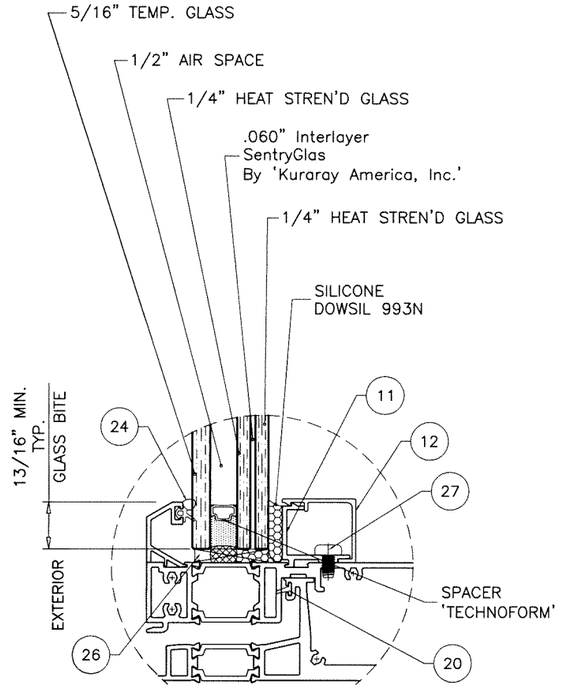
GLASS DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		INSUL. LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(–)
30–3/8"	75–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	162.0
59–3/8"		102.6	151.1
67–3/8"		90.4	133.1
30–3/8"	81–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	162.0
59–3/8"		102.6	151.1
67–3/8"		110.0	110.0
30–3/8"	87–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	162.0
59–3/8"		110.0	110.0
67–3/8"		110.0	110.0
30–3/8"	93–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	162.0
59–3/8"		110.0	110.0
67–3/8"		97.8	97.8
30–3/8"	99–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	117.3
59–3/8"		110.0	110.0
67–3/8"		97.8	97.8
30–3/8"	105–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	117.3
59–3/8"		110.0	110.0
67–3/8"		97.8	97.8
73–3/8"		90.3	90.3
79–3/8"		83.8	83.8
30–3/8"	111–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0
55–3/8"		110.0	117.3
59–3/8"		110.0	110.0
67–3/8"		97.8	97.8
73–3/8"		90.3	90.3
30–3/8"	117–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	162.0

GLASS DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		INSUL. LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(–)
30–3/8"	123–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	130.0
55–3/8"		110.0	117.3
59–3/8"		110.0	110.0
67–3/8"		97.8	97.8
30–3/8"	129–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	127.5
55–3/8"		110.0	117.3
59–3/8"		110.0	110.0
30–3/8"	135–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	126.2
55–3/8"		110.0	116.6
59–3/8"		110.0	110.0
30–3/8"	141–1/2"	110.0	162.0
36–3/8"		110.0	162.0
43–3/8"		110.0	125.1
55–3/8"		110.0	115.4
59–3/8"		110.0	110.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.





GLAZING DETAIL
1–5/16" OVERALL NOMINAL GLASS

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

GLASS

Sealed: 4/30/2025

FL #47097

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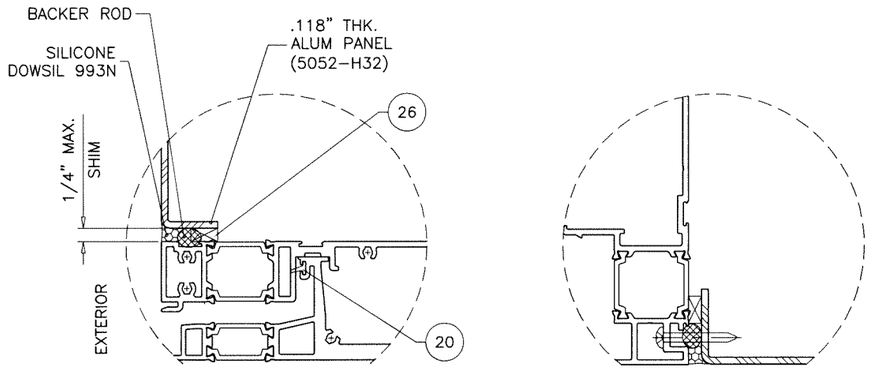
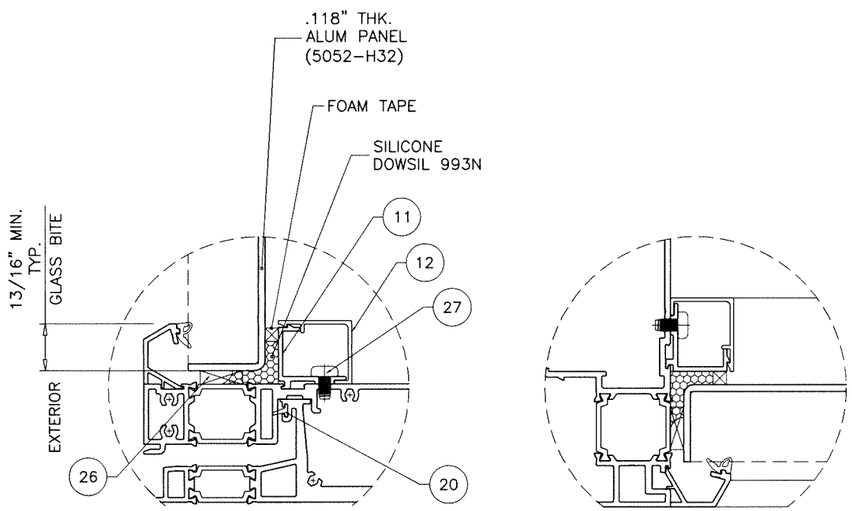
sheet 3 of 17



ALUMINUM SOLID PANEL OPTION

LIMIT MAX. PANEL AREA TO 27.84 SQ. FT.



EXTRUDED ALUMINUM PANEL OPTION

LIMIT MAX. PANEL AREA TO 50.67 SQ. FT.

Sealed: 4/30/2025

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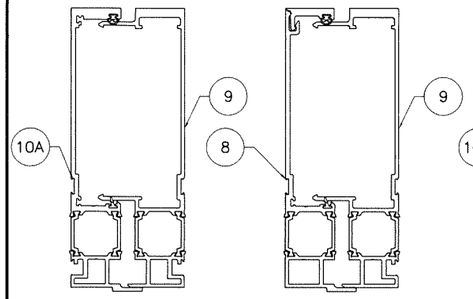
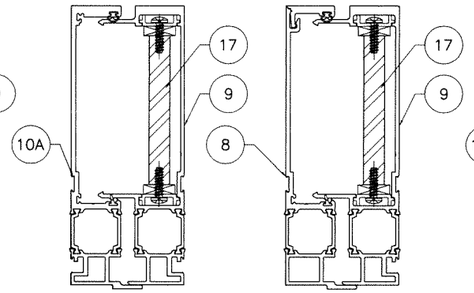


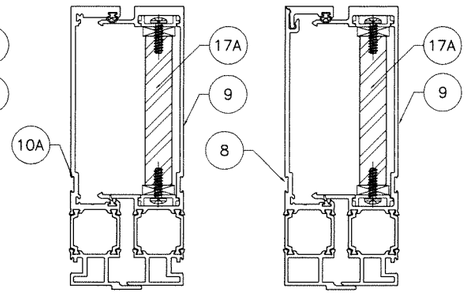
JAMB 'JF' JAMB 'ZJ'

Ix IN^4	Sx IN^3
8.796	2.819



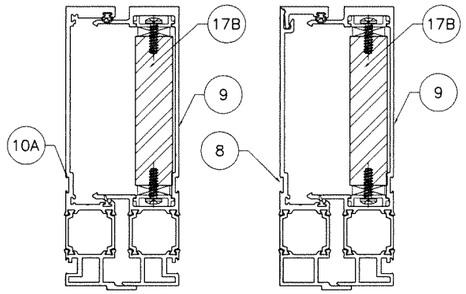
JAMB 'JF1' JAMB 'ZJ1'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	2.802	1.423
TOTAL Ix ALUM + Ix STL X 2.9	16.841	



JAMB 'JF2' JAMB 'ZJ2'

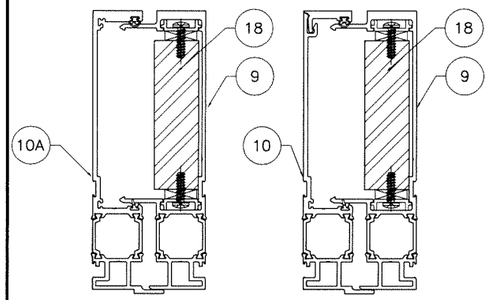
	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	3.605	1.832
TOTAL Ix ALUM + Ix STL X 2.9	19.148	



JAMB 'JF3' JAMB 'ZJ3'

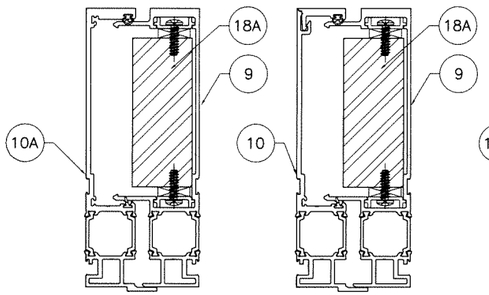
	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	5.004	2.542
TOTAL Ix ALUM + Ix STL X 2.9	23.164	

SEE SHEETS 5 TRHU 5.3 FOR JAMBS DESIGN LOAD CAPACITY



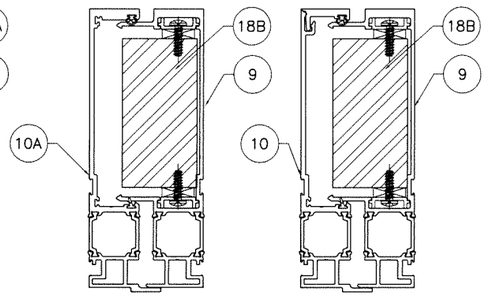
JAMB 'JF4' JAMB 'ZJ4'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	6.006	3.051
TOTAL Ix ALUM + Ix STL X 2.9	26.040	



JAMB 'JF5' JAMB 'ZJ5'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	8.009	4.069
TOTAL Ix ALUM + Ix STL X 2.9	31.793	



JAMB 'JF6' JAMB 'ZJ6'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	10.013	5.087
TOTAL Ix ALUM + Ix STL X 2.9	37.546	

Sealed: 4/30/2025

JAMB

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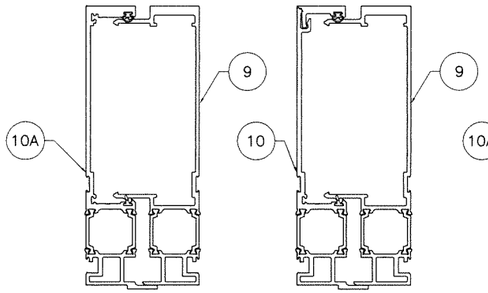
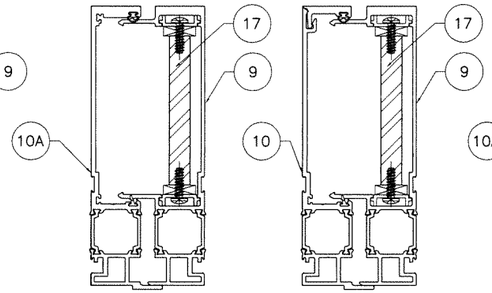
sheet 4 of 17



MULLION 'MF'

Ix IN^4	Sx IN^3
8.796	2.819

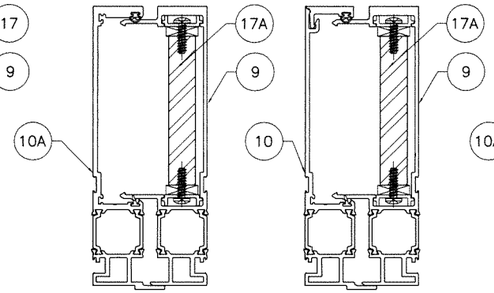
MULLION 'ZM'



MULLION 'MF1'

MULLION 'ZM1'

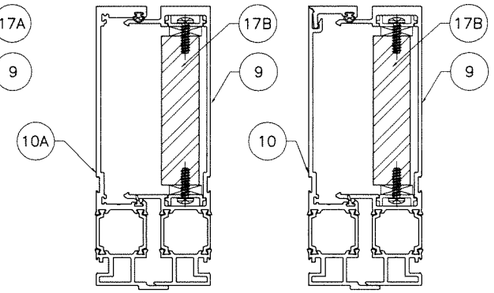
	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	2.802	1.423
TOTAL Ix ALUM + Ix STL X 2.9	16.841	



MULLION 'MF2'

MULLION 'ZM2'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	3.605	1.832
TOTAL Ix ALUM + Ix STL X 2.9	19.148	

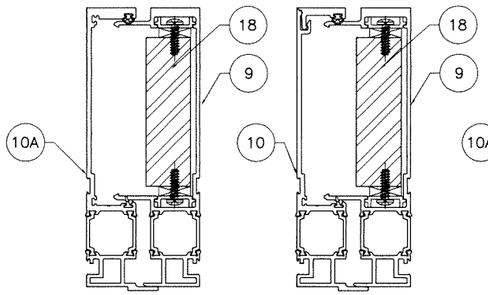


MULLION 'MF3'

MULLION 'ZM3'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	5.004	2.542
TOTAL Ix ALUM + Ix STL X 2.9	23.164	

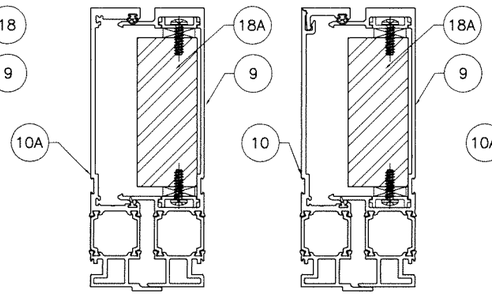
SEE SHEETS 6 THRU 6.3 FOR MULLIONS DESIGN LOAD CAPACITY



MULLION 'MF4'

MULLION 'ZM4'

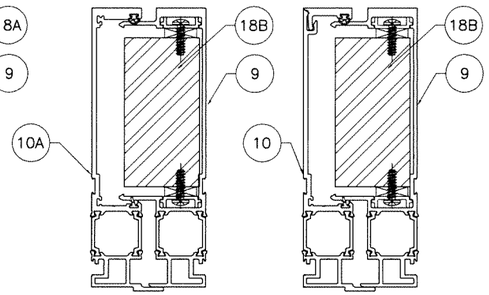
	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	6.006	3.051
TOTAL Ix ALUM + Ix STL X 2.9	26.040	



MULLION 'MF5'

MULLION 'ZM5'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	8.009	4.069
TOTAL Ix ALUM + Ix STL X 2.9	31.793	



MULLION 'MF6'

MULLION 'ZM6'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	10.013	5.087
TOTAL Ix ALUM + Ix STL X 2.9	37.546	

MULLION

Sealed: 4/30/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #47097

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

STORE\25-27F-RWW

RWW-7000 XL-3 ALUMINUM WINDOW WALL SYS. (S.M.I.)

REFLECTION WINDOW + WALL
2525 North Elston Avenue
Chicago, Illinois 60647
Phone: 773 770 0377 www.reflectionwindow.com

revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

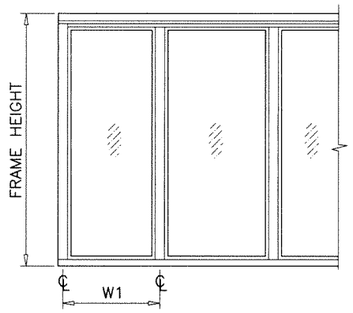
drawing no. 25-27F

JAMBS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF' & 'ZJ'		JAMB 'JF1' & 'ZJ1'		JAMB 'JF2' & 'ZJ2'		JAMB 'JF3' & 'ZJ3'		JAMB 'JF4' & 'ZJ4'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	96"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
72"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
42"	102"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
66"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
42"	108"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	125.3	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		110.0	119.3	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
72"		110.0	110.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	114"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	120.3	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	110.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		104.9	104.9	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	120"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	118.7	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	115.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		107.0	107.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		98.0	98.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		93.0	93.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	126"	110.0	120.2	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		106.4	106.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		103.0	103.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		95.8	95.8	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		87.6	87.6	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	110.0	121.1	110.0	126.0	110.0	126.0	110.0	126.0
42"	132"	108.5	108.5	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		95.9	95.9	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		92.8	92.8	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		86.3	86.3	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		78.7	78.7	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	110.0	122.1	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	110.0	115.9	110.0	126.0	110.0	126.0	110.0	126.0

JAMBS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF' & 'ZJ'		JAMB 'JF1' & 'ZJ1'		JAMB 'JF2' & 'ZJ2'		JAMB 'JF3' & 'ZJ3'		JAMB 'JF4' & 'ZJ4'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"		98.3	98.3	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		86.9	86.9	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		84.0	84.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"	138"	–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	120.0	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	110.0	116.9	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	109.8	109.8	110.0	124.7	110.0	126.0	110.0	126.0
84"		–	–	103.9	103.9	110.0	118.1	110.0	126.0	110.0	126.0
42"		89.5	89.5	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"	144"	–	–	110.0	123.6	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	116.8	110.0	126.0	110.0	126.0	110.0	126.0
72"		–	–	105.8	105.8	110.0	120.3	110.0	126.0	110.0	126.0
78"		–	–	99.2	99.2	110.0	112.8	110.0	126.0	110.0	126.0
42"		79.3	79.3	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	120.6	110.0	126.0	110.0	126.0	110.0	126.0
60"	150"	–	–	109.9	109.9	110.0	124.9	110.0	126.0	110.0	126.0
64"		–	–	104.0	104.0	110.0	118.2	110.0	126.0	110.0	126.0
72"		–	–	94.4	94.4	107.3	107.3	110.0	126.0	110.0	126.0
78"		–	–	88.6	88.6	100.7	100.7	110.0	121.9	110.0	126.0
42"		70.3	70.3	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	118.9	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	115.0	110.0	126.0	110.0	126.0	110.0	126.0
54"	156"	–	–	106.8	106.8	110.0	121.4	110.0	126.0	110.0	126.0
60"		–	–	97.2	97.2	110.0	110.5	110.0	126.0	110.0	126.0
64"		–	–	91.9	91.9	104.5	104.5	110.0	126.0	110.0	126.0
72"		–	–	83.3	83.3	94.6	94.6	110.0	114.5	110.0	126.0
42"		–	–	110.0	123.3	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	108.8	108.8	110.0	123.7	110.0	126.0	110.0	126.0
49–3/4"		–	–	105.2	105.2	110.0	119.6	110.0	126.0	110.0	126.0
54"	162"	–	–	97.6	97.6	110.0	111.0	110.0	126.0	110.0	126.0
60"		–	–	88.8	88.8	101.0	101.0	110.0	122.2	110.0	126.0
64"		–	–	83.9	83.9	95.4	95.4	110.0	115.4	110.0	126.0
72"		–	–	75.9	75.9	86.3	86.3	104.4	104.4	110.0	117.4
42"		–	–	109.3	109.3	110.0	124.2	110.0	126.0	110.0	126.0
48"		–	–	96.4	96.4	109.5	109.5	110.0	126.0	110.0	126.0
49–3/4"		–	–	93.2	93.2	105.9	105.9	110.0	126.0	110.0	126.0
54"	168"	–	–	86.4	86.4	98.2	98.2	110.0	118.9	110.0	126.0
60"		–	–	78.6	78.6	89.3	89.3	108.1	108.1	110.0	121.5
64"		–	–	74.2	74.2	84.3	84.3	102.0	102.0	110.0	114.7
72"		–	–	67.0	67.0	76.2	76.2	92.2	92.2	103.6	103.6
42"		–	–	97.3	97.3	110.0	110.6	110.0	126.0	110.0	126.0
48"		–	–	85.8	85.8	97.5	97.5	110.0	118.0	110.0	126.0
49–3/4"		–	–	82.9	82.9	94.3	94.3	110.0	114.1	110.0	126.0
54"	174"	–	–	76.9	76.9	87.4	87.4	105.7	105.7	110.0	118.8
60"		–	–	69.8	69.8	79.4	79.4	96.0	96.0	107.9	107.9
64"		–	–	65.9	65.9	74.9	74.9	90.6	90.6	101.9	101.9
68–1/2"		–	–	62.1	62.1	70.6	70.6	85.4	85.4	96.0	96.0
42"		–	–	93.3	93.3	106.0	106.0	110.0	126.0	110.0	126.0
48"		–	–	82.2	82.2	93.4	93.4	110.0	113.1	110.0	126.0
49–3/4"		–	–	79.5	79.5	90.3	90.3	109.3	109.3	110.0	122.9
54"	176–1/4"	–	–	73.6	73.6	83.7	83.7	101.3	101.3	110.0	113.9
60"		–	–	66.9	66.9	76.0	76.0	92.0	92.0	103.4	103.4
64"		–	–	63.1	63.1	71.7	71.7	86.8	86.8	97.6	97.6



WIDTH (W) = W1
AT JAMB

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4 FOR JAMB DETAILS

JAMB

Sealed: 4/30/2025
FL #47097

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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FBPE #3538

STORE\25-27F-RWW

RWW-7000 XL-3 ALUMINUM WINDOW WALL SYS. (S.M.I.)

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2525 North Elston Avenue
Chicago, Illinois 60647
Phone: 773 770 0377 www.reflectionwindow.com

revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

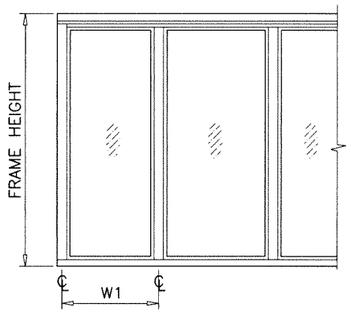
sheet 5 of 17

JAMBS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF5' & 'ZJ5'		JAMB 'JF6' & 'ZJ6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	96"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
72"		110.0	162.0	110.0	162.0
42"	102"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
66"		110.0	162.0	110.0	162.0
42"	108"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0
42"	114"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0
42"	120"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0
42"	126"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0
42"	132"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0

JAMBS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF5' & 'ZJ5'		JAMB 'JF6' & 'ZJ6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	138"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
84"		110.0	126.0	110.0	126.0
42"	144"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
42"	150"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
78"		110.0	126.0	110.0	126.0
42"	156"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
42"	162"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
42"	168"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
72"		110.0	126.0	110.0	126.0
42"	174"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	124.4	110.0	126.0
68–1/2"		110.0	117.2	110.0	126.0
42"	176–1/4"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	119.1	110.0	126.0



WIDTH (W) = W1
AT JAMB

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4 FOR JAMB DETAILS

JAMB

Sealed: 4/30/2025 FL #47097

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revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

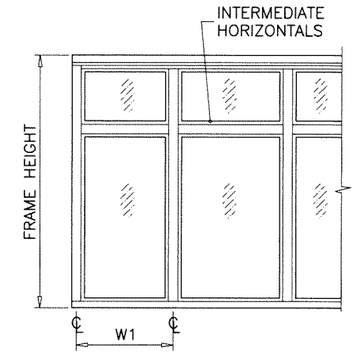
JAMBS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF' & 'ZJ'		JAMB 'JF1' & 'ZJ1'		JAMB 'JF2' & 'ZJ2'		JAMB 'JF3' & 'ZJ3'		JAMB 'JF4' & 'ZJ4'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	96"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
67–1/2"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
42"	102"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		110.0	119.2	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
67–1/2"		110.0	113.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
42"	108"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	125.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		110.0	112.6	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		105.6	105.6	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
67–1/2"		100.1	100.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
42"	114"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	125.5	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		110.0	121.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		110.0	111.6	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		100.4	100.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		94.1	94.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
67–1/2"		89.2	89.2	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	120"	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		110.0	112.5	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		108.6	108.6	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		100.0	100.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		90.0	90.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		84.4	84.4	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
67–1/2"		80.0	80.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	126"	110.0	115.9	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		101.4	101.4	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		97.8	97.8	110.0	126.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		90.1	90.1	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		81.1	81.1	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
67–1/2"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	132"	104.9	104.9	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		91.8	91.8	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		88.5	88.5	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		81.6	81.6	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		73.4	73.4	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
67–1/2"		–	–	110.0	125.0	110.0	126.0	110.0	126.0	110.0	126.0
42"	138"	95.4	95.4	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		83.4	83.4	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		80.5	80.5	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	110.0	119.8	110.0	126.0	110.0	126.0	110.0	126.0
67–1/2"		–	–	110.0	113.6	110.0	126.0	110.0	126.0	110.0	126.0

JAMBS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF' & 'ZJ'		JAMB 'JF1' & 'ZJ1'		JAMB 'JF2' & 'ZJ2'		JAMB 'JF3' & 'ZJ3'		JAMB 'JF4' & 'ZJ4'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	144"	87.0	87.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
60"		–	–	110.0	116.6	110.0	126.0	110.0	126.0	110.0	126.0
64"		–	–	109.4	109.4	110.0	124.3	110.0	126.0	110.0	126.0
67–1/2"		–	–	103.7	103.7	110.0	117.9	110.0	126.0	110.0	126.0
42"	150"	77.0	77.0	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	124.5	110.0	126.0	110.0	126.0	110.0	126.0
54"		–	–	110.0	114.7	110.0	126.0	110.0	126.0	110.0	126.0
60"		–	–	103.2	103.2	110.0	117.3	110.0	126.0	110.0	126.0
64"		–	–	96.8	96.8	110.0	110.0	110.0	126.0	110.0	126.0
67–1/2"		–	–	91.7	91.7	104.3	104.3	110.0	126.0	110.0	126.0
42"	156"	68.5	68.5	110.0	126.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	110.0	114.7	110.0	126.0	110.0	126.0	110.0	126.0
49–3/4"		–	–	110.0	110.7	110.0	125.8	110.0	126.0	110.0	126.0
54"		–	–	102.0	102.0	110.0	115.9	110.0	126.0	110.0	126.0
60"		–	–	91.8	91.8	104.3	104.3	110.0	126.0	110.0	126.0
64"		–	–	86.0	86.0	97.8	97.8	110.0	118.3	110.0	126.0
67–1/2"		–	–	81.6	81.6	92.7	92.7	110.0	112.2	110.0	126.0
42"	162"	–	–	110.0	120.3	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	105.3	105.3	110.0	119.7	110.0	126.0	110.0	126.0
49–3/4"		–	–	101.6	101.6	110.0	115.5	110.0	126.0	110.0	126.0
54"		–	–	93.6	93.6	106.4	106.4	110.0	126.0	110.0	126.0
60"		–	–	84.2	84.2	95.7	95.7	110.0	115.8	110.0	126.0
64"		–	–	79.0	79.0	89.7	89.7	108.6	108.6	110.0	122.1
67–1/2"		–	–	74.9	74.9	85.1	85.1	103.0	103.0	110.0	115.7
42"	168"	–	–	106.8	106.8	110.0	121.4	110.0	126.0	110.0	126.0
48"		–	–	93.5	93.5	106.3	106.3	110.0	126.0	110.0	126.0
49–3/4"		–	–	90.2	90.2	102.5	102.5	110.0	124.1	110.0	126.0
54"		–	–	83.1	83.1	94.5	94.5	110.0	114.3	110.0	126.0
60"		–	–	74.8	74.8	85.0	85.0	102.9	102.9	110.0	115.6
64"		–	–	70.1	70.1	79.7	79.7	96.4	96.4	108.4	108.4
67–1/2"		–	–	66.5	66.5	75.6	75.6	91.4	91.4	102.8	102.8
42"	174"	–	–	95.3	95.3	108.3	108.3	110.0	126.0	110.0	126.0
48"		–	–	83.4	83.4	94.8	94.8	110.0	114.7	110.0	126.0
49–3/4"		–	–	80.4	80.4	91.4	91.4	110.0	110.7	110.0	124.4
54"		–	–	74.1	74.1	84.2	84.2	101.9	101.9	110.0	114.6
60"		–	–	66.7	66.7	75.8	75.8	91.7	91.7	103.1	103.1
64"		–	–	62.5	62.5	71.1	71.1	86.0	86.0	96.7	96.7
67–1/2"		–	–	59.3	59.3	67.4	67.4	81.6	81.6	91.7	91.7
42"	176–1/4"	–	–	91.4	91.4	103.9	103.9	110.0	125.7	110.0	126.0
48"		–	–	80.0	80.0	90.9	90.9	110.0	110.0	110.0	123.6
49–3/4"		–	–	77.1	77.1	87.7	87.7	106.1	106.1	110.0	119.3
54"		–	–	71.1	71.1	80.8	80.8	97.8	97.8	109.9	109.9
60"		–	–	64.0	64.0	72.7	72.7	88.0	88.0	98.9	98.9
64"		–	–	60.0	60.0	68.2	68.2	82.5	82.5	92.7	92.7
67–1/2"		–	–	56.9	56.9	64.6	64.6	78.2	78.2	87.9	87.9

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4 FOR JAMB DETAILS



WIDTH (W) = W1
AT JAMB

JAMB

Sealed: 4/30/2025

FL #47097

AL-FAROOQ CORPORATION
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revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

sheet 5.2 of 17

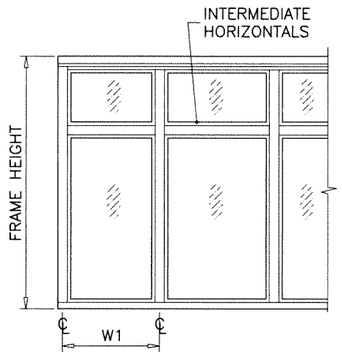
JAMBS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF5' & 'ZJ5'		JAMB 'JF6' & 'ZJ6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	96"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
67–1/2"		110.0	162.0	110.0	162.0
42"	102"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
67–1/2"		110.0	162.0	110.0	162.0
42"	108"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
67–1/2"		110.0	162.0	110.0	162.0
42"	114"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	162.0	110.0	162.0
67–1/2"		110.0	126.0	110.0	126.0
42"	120"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	162.0	110.0	162.0
60"		110.0	162.0	110.0	162.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	126"	110.0	162.0	110.0	162.0
48"		110.0	162.0	110.0	162.0
49–3/4"		110.0	162.0	110.0	162.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	132"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	138"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0

JAMBS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'JF5' & 'ZJ5'		JAMB 'JF6' & 'ZJ6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	144"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	150"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	156"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	162"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	126.0	110.0	126.0
42"	168"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	126.0	110.0	126.0
64"		110.0	126.0	110.0	126.0
67–1/2"		110.0	125.5	110.0	126.0
42"	174"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	125.9	110.0	126.0
64"		110.0	118.0	110.0	126.0
67–1/2"		110.0	111.9	110.0	126.0
42"	176–1/4"	110.0	126.0	110.0	126.0
48"		110.0	126.0	110.0	126.0
49–3/4"		110.0	126.0	110.0	126.0
54"		110.0	126.0	110.0	126.0
60"		110.0	120.7	110.0	126.0
64"		110.0	113.2	110.0	126.0
67–1/2"		107.3	107.3	110.0	126.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4 FOR JAMB DETAILS



WIDTH (W) = W1
AT JAMB

JAMB

Sealed: 4/30/2025

FL #47097

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revisions:

no	date	by	description

date: 02–04–25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

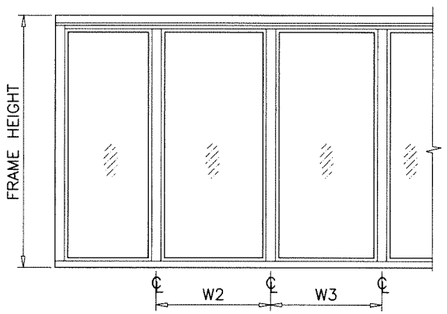
MULLIONS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION 'MF' & 'ZM'		MULLION 'MF1' & 'ZM1'		MULLION 'MF2' & 'ZM2'		MULLION 'MF3' & 'ZM3'		MULLION 'MF4' & 'ZM4'		MULLION 'MF5' & 'ZM5'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	96"	110.1	110.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		98.4	98.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		95.5	95.5	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		89.6	89.6	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	110.0	153.8	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		–	–	110.0	144.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
72"		–	–	103.4	137.4	110.0	156.2	110.0	162.0	110.0	162.0	110.0	162.0
42"	102"	96.1	96.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		85.6	85.6	110.0	159.9	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		83.1	83.1	110.0	155.2	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		77.7	77.7	110.0	145.2	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	110.0	133.9	110.0	152.3	110.0	162.0	110.0	162.0	110.0	162.0
64"		–	–	110.0	125.2	110.0	142.4	110.0	162.0	110.0	162.0	110.0	162.0
42"	108"	84.6	84.6	110.0	159.1	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		75.2	75.2	110.0	141.5	110.0	160.9	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		72.9	72.9	110.0	137.2	110.0	156.0	110.0	162.0	110.0	162.0	110.0	162.0
54"		–	–	110.0	128.1	110.0	145.7	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	110.0	117.8	110.0	134.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		–	–	109.7	109.7	110.0	126.0	110.0	151.0	110.0	162.0	110.0	162.0
72"		–	–	103.4	103.4	110.0	117.6	110.0	126.0	110.0	126.0	110.0	126.0
78"		–	–	98.5	98.5	110.0	112.0	110.0	126.0	110.0	126.0	110.0	126.0
84"		–	–	94.7	94.7	107.7	107.7	110.0	126.0	110.0	126.0	110.0	126.0
42"	114"	75.0	75.0	110.0	142.0	110.0	161.5	110.0	162.0	110.0	162.0	110.0	162.0
48"		66.6	66.6	110.0	126.1	110.0	143.4	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		64.5	64.5	110.0	122.2	110.0	138.9	110.0	162.0	110.0	162.0	110.0	162.0
54"		–	–	110.0	113.9	110.0	129.5	110.0	156.8	110.0	162.0	110.0	162.0
60"		–	–	104.5	104.5	110.0	118.8	110.0	143.8	110.0	161.6	110.0	162.0
64"		–	–	99.4	99.4	110.0	113.0	110.0	133.6	110.0	150.1	110.0	162.0
72"		–	–	91.2	91.2	103.7	103.7	110.0	125.5	110.0	126.0	110.0	126.0
78"		–	–	86.5	86.5	98.4	98.4	110.0	119.0	110.0	126.0	110.0	126.0
84"		–	–	82.8	82.8	94.2	94.2	110.0	114.0	110.0	126.0	110.0	126.0
42"	120"	67.0	67.0	110.0	127.6	110.0	145.1	110.0	162.0	110.0	162.0	110.0	162.0
48"		59.3	59.3	110.0	113.1	110.0	128.5	110.0	155.7	110.0	162.0	110.0	162.0
49–3/4"		–	–	109.6	109.6	110.0	124.6	110.0	150.8	110.0	162.0	110.0	162.0
54"		–	–	102.0	102.0	110.0	116.0	110.0	140.4	110.0	157.8	110.0	162.0
60"		–	–	93.4	93.4	106.2	106.2	110.0	127.6	110.0	143.5	110.0	162.0
64"		–	–	92.8	92.8	100.8	100.8	110.0	122.0	110.0	126.0	110.0	126.0
72"		–	–	88.7	88.7	92.2	92.2	110.0	110.0	110.0	126.0	110.0	126.0
78"		–	–	76.7	76.7	87.2	87.2	105.5	105.5	110.0	118.6	110.0	126.0
42"	126"	60.1	60.1	110.0	115.1	110.0	130.8	110.0	158.3	110.0	162.0	110.0	126.0
48"		–	–	101.8	101.8	110.0	115.8	110.0	140.1	110.0	157.5	110.0	126.0
49–3/4"		–	–	98.6	98.6	110.0	112.1	110.0	129.3	110.0	145.4	110.0	126.0
54"		–	–	91.7	91.7	104.3	104.3	110.0	126.0	110.0	126.0	110.0	126.0
60"		–	–	83.8	83.8	95.3	95.3	110.0	115.3	110.0	126.0	110.0	126.0
64"		–	–	79.5	79.5	90.3	90.3	109.3	109.3	110.0	122.9	110.0	126.0
72"		–	–	72.4	72.4	82.3	82.3	99.7	99.7	110.0	112.0	110.0	126.0
42"	132"	54.2	54.2	103.8	103.8	110.0	118.0	110.0	126.0	110.0	126.0	110.0	162.0
48"		–	–	91.8	91.8	104.4	104.4	110.0	126.0	110.0	126.0	110.0	162.0
49–3/4"		–	–	88.9	88.9	101.0	101.0	110.0	122.2	110.0	126.0	110.0	162.0
54"		–	–	82.6	82.6	93.9	93.9	110.0	113.6	110.0	126.0	110.0	126.0
60"		–	–	75.3	75.3	85.6	85.6	103.6	103.6	110.0	116.5	110.0	126.0
64"		–	–	71.3	71.3	81.1	81.1	98.1	98.1	110.0	110.3	110.0	126.0
72"		–	–	64.9	64.9	73.7	73.7	89.2	89.2	100.3	100.3	110.0	122.5
42"	138"	–	–	94.1	94.1	107.0	107.0	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	83.1	83.1	94.5	94.5	110.0	114.4	110.0	126.0	110.0	126.0
49–3/4"		–	–	80.5	80.5	91.5	91.5	110.0	110.7	110.0	124.4	110.0	126.0
54"		–	–	74.7	74.7	84.9	84.9	102.8	102.8	110.0	115.5	110.0	126.0
60"		–	–	68.1	68.1	77.34	77.4	93.6	93.6	105.3	105.3	110.0	126.0
64"		–	–	64.4	64.4	73.2	73.2	88.6	88.6	99.6	99.6	110.0	121.6

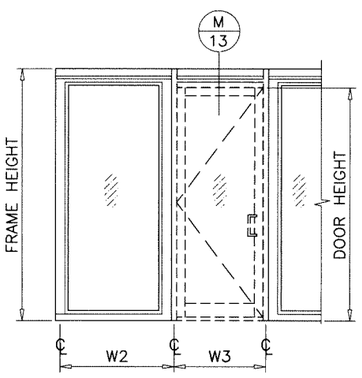
MULLIONS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

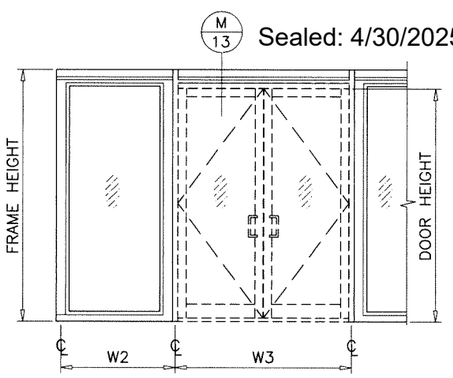
NOMINAL DIMS.		MULLION 'MF' & 'ZM'		MULLION 'MF1' & 'ZM1'		MULLION 'MF2' & 'ZM2'		MULLION 'MF3' & 'ZM3'		MULLION 'MF4' & 'ZM4'		MULLION 'MF5' & 'ZM5'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"	144"	–	–	85.7	85.7	97.4	97.4	110.0	117.9	110.0	126.0	110.0	126.0
48"		–	–	75.6	75.6	86.0	86.0	104.0	104.0	110.0	117.0	110.0	126.0
49–3/4"		–	–	73.2	73.2	83.2	83.2	100.6	100.6	110.0	113.1	110.0	126.0
54"		–	–	67.9	67.9	77.2	77.2	93.4	93.4	105.0	105.0	110.0	126.0
60"		–	–	61.8	61.8	70.2	70.2	85.0	85.0	95.6	95.6	110.0	116.6
64"		–	–	58.4	58.4	66.4	66.4	80.4	80.4	90.3	90.3	110.0	110.3
42"	150"	–	–	75.9	75.9	86.3	86.3	104.4	104.4	110.0	117.4	110.0	126.0
48"		–	–	67.1	67.1	76.2	76.2	92.3	92.3	103.7	103.7	110.0	126.0
49–3/4"		–	–	64.9	64.9	73.8	73.8	89.3	89.3	100.4	100.4	110.0	122.5
54"		–	–	60.3	60.3	68.5	68.5	82.9	82.9	93.2	93.2	110.0	113.8
60"		–	–	54.9	54.9	62.5	62.5	75.6	75.6	85.0	85.0	103.7	103.7
64"		–	–	52.0	52.0	59.1	59.1	71.5	71.5	80.4	80.4	98.1	98.1
42"	156"	–	–	67.3	67.3	76.5	76.5	92.6	92.6	104.1	104.1	110.0	126.0
48"		–	–	59.4	59.4	67.6	67.6	81.8	81.8	91.9	91.9	110.0	112.2
49–3/4"		–	–	57.5	57.5	65.4	65.4	79.1	79.1	88.9	88.9	108.6	108.6
54–3/4"		–	–	52.7	52.7	59.9	59.9	72.5	72.5	81.5	81.5	99.5	99.5
42"	162"	–	–	61.7	61.7	70.1	70.1	84.8	84.8	95.3	95.3	110.0	116.4
48"		–	–	54.4	54.4	61.8	61.8	74.8	74.8	84.1	84.1	102.7	102.7
49–3/4"		–	–	52.6	52.6	59.8	59.8	72.4	72.4	81.4	81.4	99.3	99.3
54"		–	–	48.8	48.8	55.5	55.5	67.1	67.1	75.5	75.5	92.1	92.1
42"	168"	–	–	54.6	54.6	62.1	62.1	75.2	75.2	84.5	84.5	103.2	103.2
48"		–	–	48.2	48.2	54.8	54.8	66.3	66.3	74.5	74.5	91.0	91.0
49–3/4"		–	–	46.6	46.6	53.0	53.0	64.1	64.1	72.1	72.1	88.0	88.0
54"		–	–	–	–	–	–	–	–	–	–	–	–
42"	174"	–	–	48.7	48.7	55.3	55.3	66.9	66.9	75.2	75.2	91.9	91.9
48"		–	–	42.9	42.9	48.7	48.7	59.0	59.0	66.3	66.3	80.9	80.9
42"	176–1/4"	–	–	46.6	46.6	53.0	53.0	64.2	64.2	72.1	72.1	88.0	88.0
48"		–	–	41.1	41.1	46.7	46.7	56.5	56.5	63.5	63.5	77.6	77.6

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4.1 FOR MULLION DETAILS



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





MULLION

Sealed: 4/30/2025

FL #47097

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STORE\25–27F–RWW

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revisions:				
no	date	by	description	

date: 02–04–25 | scale: – | dr. by: TARIQ | chk. by:

drawing no. 25–27F

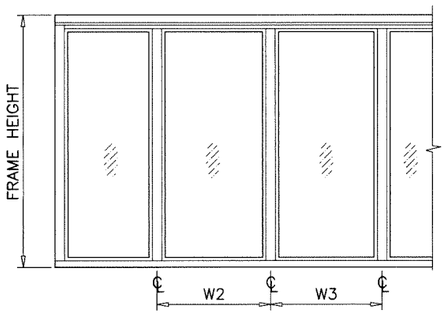
MULLIONS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION 'MF6' & 'ZM6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)
42"	96"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
72"		110.0	162.0
42"	102"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
42"	108"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
72"		110.0	126.0
78"		110.0	126.0
84"		110.0	126.0
42"	114"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
72"		110.0	126.0
78"		110.0	126.0
84"		110.0	126.0
42"	120"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	126.0
72"		110.0	126.0
78"		110.0	126.0
42"	126"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0
72"		110.0	126.0
42"	132"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0
72"		110.0	126.0
42"	138"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0

MULLIONS DESIGN LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION 'MF6' & 'ZM6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)
42"	144"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0
42"	150"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	122.5
64"		110.0	115.9
42"	156"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54–3/4"		110.0	117.5
42"	162"	110.0	126.0
48"		110.0	121.2
49–3/4"		110.0	117.3
54"		108.8	108.8
42"	168"	110.0	121.8
48"		107.4	107.4
49–3/4"		103.9	103.9
54"		–	–
42"	174"	108.5	108.5
48"		95.6	95.6
42"	176–1/4"	104.0	104.0
48"		91.6	91.6

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4.1 FOR MULLION DETAILS



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

MULLION

FL #47097

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

sheet 6.1 of 17

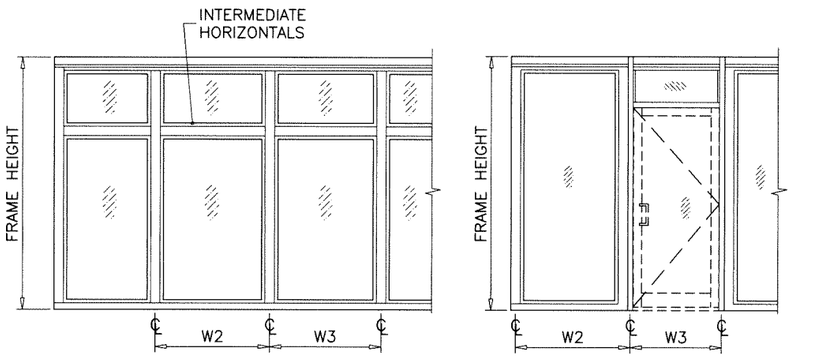
MULLIONS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION 'MF' & 'ZM'		MULLION 'MF1' & 'ZM1'		MULLION 'MF2' & 'ZM2'		MULLION 'MF3' & 'ZM3'		MULLION 'MF4' & 'ZM4'		MULLION 'MF5' & 'ZM5'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"		103.3	103.3	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		90.4	90.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		87.2	87.2	110.0	161.7	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"	96"	80.3	80.3	110.0	148.9	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	110.0	134.0	110.0	152.4	110.0	162.0	110.0	162.0	110.0	162.0
64"		–	–	110.0	125.7	110.0	142.9	110.0	162.0	110.0	162.0	110.0	162.0
67–1/2"		–	–	110.0	119.2	110.0	135.5	110.0	162.0	110.0	162.0	110.0	162.0
42"		90.8	90.8	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		79.5	79.5	110.0	148.4	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		76.7	76.7	110.0	143.2	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
54"	102"	70.6	70.6	110.0	131.9	110.0	150.0	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	110.0	118.7	110.0	135.0	110.0	162.0	110.0	162.0	110.0	162.0
64"		–	–	110.0	111.3	110.0	126.6	110.0	153.2	110.0	162.0	110.0	162.0
67–1/2"		–	–	105.5	105.5	110.0	120.0	110.0	145.3	110.0	162.0	110.0	162.0
42"		80.5	80.5	110.0	151.3	110.0	162.0	110.0	162.0	110.0	162.0	110.0	162.0
48"		70.4	70.4	110.0	132.4	110.0	150.5	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		67.9	67.9	110.0	127.7	110.0	145.3	110.0	162.0	110.0	162.0	110.0	162.0
54"	108"	–	–	110.0	117.7	110.0	133.8	110.0	162.0	110.0	162.0	110.0	162.0
60"		–	–	105.9	105.9	110.0	120.4	110.0	145.8	110.0	162.0	110.0	162.0
64"		–	–	99.3	99.3	110.0	112.9	110.0	136.7	110.0	153.6	110.0	162.0
67–1/2"		–	–	94.1	94.1	107.1	107.1	110.0	129.6	110.0	145.6	110.0	162.0
42"		71.7	71.7	110.0	135.8	110.0	154.4	110.0	162.0	110.0	162.0	110.0	162.0
48"		62.8	62.8	110.0	118.8	110.0	135.1	110.0	162.0	110.0	162.0	110.0	162.0
49–3/4"		60.5	60.5	110.0	114.6	110.0	130.4	110.0	157.8	110.0	162.0	110.0	162.0
54"		55.8	55.8	105.6	105.6	110.0	120.1	110.0	145.4	110.0	162.0	110.0	162.0
60"	114"	–	–	95.1	95.1	108.1	108.1	110.0	130.8	110.0	147.0	110.0	162.0
64"		–	–	89.1	89.1	101.3	101.3	110.0	122.6	110.0	137.8	110.0	162.0
67–1/2"		–	–	84.5	84.5	96.1	96.1	110.0	116.3	110.0	126.0	110.0	126.0
42"		64.3	64.3	110.0	122.6	110.0	139.4	110.0	162.0	110.0	162.0	110.0	162.0
48"		56.3	56.3	107.2	107.2	110.0	121.9	110.0	147.6	110.0	162.0	110.0	162.0
49–3/4"		54.3	54.3	103.5	103.5	110.0	117.7	110.0	142.4	110.0	160.0	110.0	162.0
54"		–	–	95.3	95.3	108.4	108.4	110.0	131.2	110.0	147.4	110.0	162.0
60"	120"	–	–	85.8	85.8	97.6	97.6	110.0	118.1	110.0	131.6	110.0	160.6
64"		–	–	80.4	80.4	91.5	91.5	110.0	110.7	110.0	124.4	110.0	126.0
67–1/2"		–	–	76.3	76.3	86.7	86.7	104.9	104.9	110.0	117.9	110.0	126.0
42"		57.9	57.9	110.0	110.9	110.0	126.1	110.0	152.6	110.0	162.0	110.0	162.0
48"		–	–	97.1	97.1	110.0	110.3	110.0	133.5	110.0	150.1	110.0	162.0
49–3/4"		–	–	93.6	93.6	106.4	106.4	110.0	122.1	110.0	137.2	110.0	162.0
54"	126"	–	–	86.3	86.3	98.1	98.1	110.0	118.7	110.0	126.0	110.0	126.0
60"		–	–	77.6	77.6	88.3	88.3	106.8	106.8	110.0	120.1	110.0	126.0
64"		–	–	72.8	72.8	82.7	82.7	100.1	100.1	110.0	112.6	110.0	126.0
67–1/2"		–	–	69.0	69.0	78.5	78.5	94.9	94.9	106.7	106.7	110.0	126.0
42"		52.4	52.4	100.4	100.4	110.0	114.1	110.0	126.0	110.0	126.0	110.0	126.0
48"		–	–	87.9	87.9	99.9	99.9	110.0	120.9	110.0	126.0	110.0	126.0
49–3/4"		–	–	84.8	84.8	96.4	96.4	110.0	116.6	110.0	126.0	110.0	126.0
54"	132"	–	–	78.1	78.1	88.8	88.8	107.4	107.4	110.0	120.8	110.0	126.0
60"		–	–	70.3	70.3	79.9	79.9	96.7	96.7	108.7	108.7	110.0	126.0
64"		–	–	65.9	65.9	74.9	74.9	90.6	90.6	101.9	101.9	110.0	124.4
67–1/2"		–	–	62.5	62.5	71.0	71.0	85.9	85.9	96.6	96.6	110.0	117.9
42"		–	–	91.3	91.3	103.8	103.8	110.0	125.6	110.0	126.0	110.0	126.0
48"		–	–	79.9	79.9	90.8	90.8	109.9	109.9	110.0	123.5	110.0	126.0
49–3/4"		–	–	77.1	77.1	87.6	87.6	106.0	106.0	110.0	119.2	110.0	126.0
54"	138"	–	–	71.0	71.0	80.7	80.7	97.7	97.7	109.8	109.8	110.0	126.0
60"		–	–	63.9	63.9	72.6	72.6	87.9	87.9	98.8	98.8	110.0	120.6
64"		–	–	59.9	59.9	68.1	68.1	82.4	82.4	92.6	92.6	110.0	113.1

MULLIONS DESIGN LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		MULLION 'MF' & 'ZM'		MULLION 'MF1' & 'ZM1'		MULLION 'MF2' & 'ZM2'		MULLION 'MF3' & 'ZM3'		MULLION 'MF4' & 'ZM4'		MULLION 'MF5' & 'ZM5'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
42"		–	–	83.3	83.3	94.7	94.7	110.0	114.6	110.0	126.0	110.0	126.0
48"		–	–	72.9	72.9	82.9	82.9	100.3	100.3	110.0	112.7	110.0	126.0
49–3/4"		–	–	70.3	70.3	80.0	80.0	96.8	96.8	108.8	108.8	110.0	126.0
54"	144"	–	–	64.8	64.8	73.7	73.7	89.1	89.1	100.2	100.2	110.0	122.3
60"		–	–	58.3	58.3	66.3	66.3	80.2	80.2	90.2	90.2	110.0	110.1
64"		–	–	54.7	54.7	62.2	62.2	75.2	75.2	84.5	84.5	103.2	103.2
42"		–	–	73.7	73.7	83.8	83.8	101.4	101.4	110.0	114.0	110.0	126.0
48"		–	–	64.5	64.5	73.3	73.3	88.7	88.7	99.8	99.8	110.0	121.8
49–3/4"		–	–	62.2	62.2	70.8	70.8	85.6	85.6	96.2	96.2	110.0	117.5
54"	150"	–	–	57.3	57.3	65.2	65.2	78.9	78.9	88.7	88.7	108.2	108.2
60"		–	–	51.6	51.6	58.7	58.7	71.0	71.0	79.8	79.8	97.4	97.4
64"		–	–	48.4	48.4	55.0	55.0	66.6	66.6	74.8	74.8	91.3	91.3
42"		–	–	65.5	65.5	74.5	74.5	90.2	90.2	101.3	101.3	110.0	123.7
48"		–	–	57.4	57.4	65.2	65.2	78.9	78.9	88.7	88.7	108.3	108.3
49–3/4"	156"	–	–	55.3	55.3	62.9	62.9	76.1	76.1	85.6	85.6	104.4	104.4
54–3/4"		–	–	50.3	50.3	57.2	57.2	69.2	69.2	77.7	77.7	94.9	94.9
42"		–	–	–	–	68.4	68.4	82.7	82.7	93.0	93.0	110.0	113.5
48"	162"	–	–	–	–	59.8	59.8	72.4	72.4	81.4	81.4	99.3	99.3
49–3/4"		–	–	–	–	57.7	57.7	69.9	69.9	78.5	78.5	95.9	95.9
54"		–	–	–	–	53.2	53.2	64.4	64.4	72.3	72.3	88.3	88.3
42"		–	–	–	–	60.7	60.7	73.5	73.5	82.6	82.6	100.8	100.8
48"	168"	–	–	–	–	53.1	53.1	64.3	64.3	72.3	72.3	88.2	88.2
49–3/4"		–	–	–	–	51.3	51.3	62.0	62.0	69.7	69.7	85.1	85.1
54"		–	–	–	–	47.2	47.2	57.1	57.1	64.2	64.2	78.4	78.4
42"	174"	–	–	–	–	54.2	54.2	65.5	65.5	73.7	73.7	89.9	89.9
48"		–	–	–	–	47.4	47.4	57.3	57.3	64.5	64.5	78.7	78.7
42"	176–1/4"	–	–	–	–	51.9	51.9	62.9	62.9	70.6	70.6	86.2	86.2
48"		–	–	–	–	45.4	45.4	55.0	55.0	61.8	61.8	75.5	75.5

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4.1 FOR MULLION DETAILS



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

MULLION

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JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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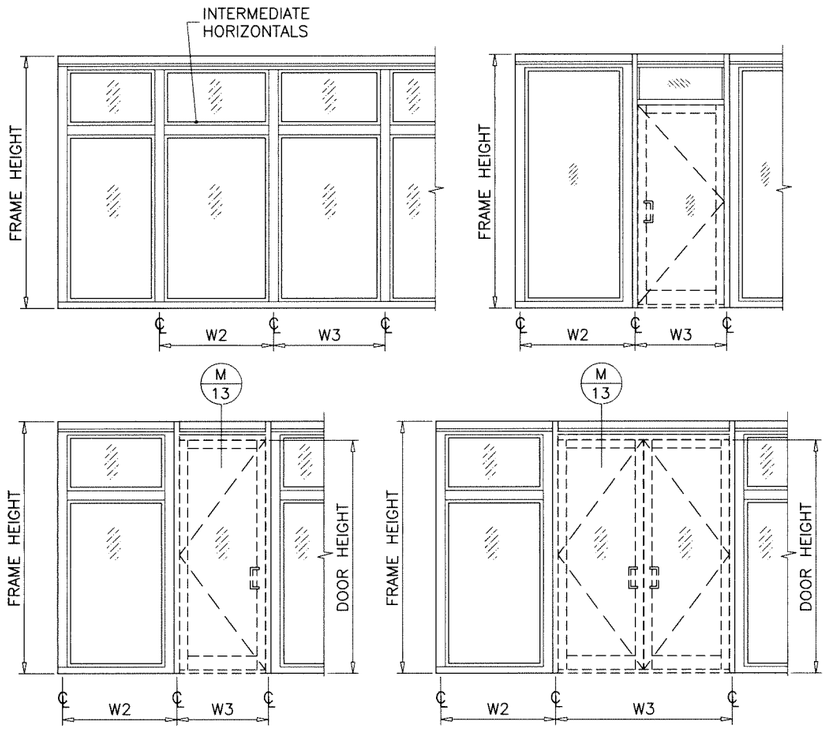
drawing no. 25–27F

sheet 6.2 of 17

MULLIONS DESIGN LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'MF6' & 'ZM6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)
42"	96"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
67–1/2"		110.0	162.0
42"	102"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
67–1/2"		110.0	162.0
42"	108"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
67–1/2"		110.0	162.0
42"	114"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	162.0
64"		110.0	162.0
67–1/2"		110.0	126.0
42"	120"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	162.0
60"		110.0	126.0
64"		110.0	126.0
67–1/2"		110.0	126.0
42"	126"	110.0	162.0
48"		110.0	162.0
49–3/4"		110.0	162.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0
67–1/2"		110.0	126.0
42"	132"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0
67–1/2"		110.0	126.0
42"	138"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	126.0

MULLIONS DESIGN LOAD CAPACITY – PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		MULLION 'MF6' & 'ZM6'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(–)
42"	144"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	126.0
64"		110.0	121.9
42"	150"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	126.0
54"		110.0	126.0
60"		110.0	115.0
64"		107.8	107.8
42"	156"	110.0	126.0
48"		110.0	126.0
49–3/4"		110.0	123.3
54–3/4"		110.0	112.1
42"	162"	110.0	126.0
48"		110.0	117.3
49–3/4"		110.0	113.2
54"		104.3	104.3
42"	168"	110.0	119.1
48"		104.2	104.2
49–3/4"		100.5	100.5
54"		92.6	92.6
42"	174"	106.2	106.2
48"		92.9	92.9
42"	176–1/4"	101.8	101.8
48"		89.1	89.1

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.
SEE SHEET 4.1 FOR MULLION DETAILS



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

MULLION

FL #47097

Sealed: 4/30/2025

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revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

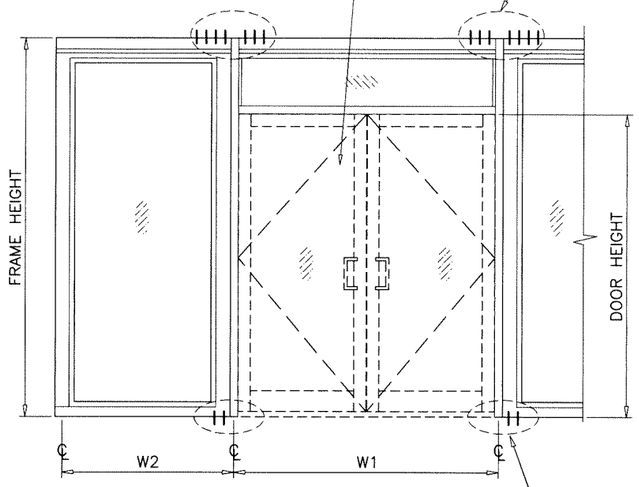
sheet 6.3 of 17

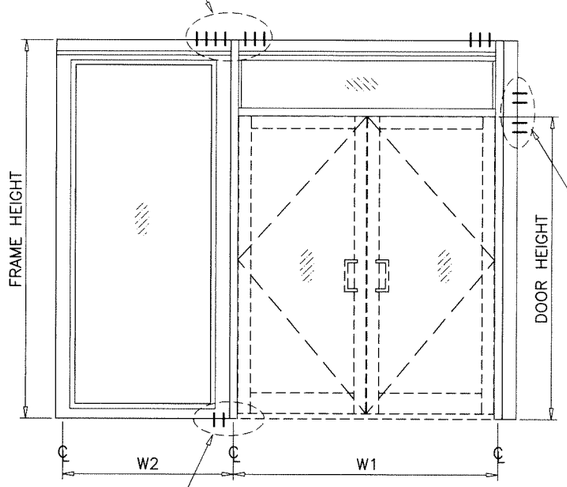
DOOR MULLION LOAD CAPACITY – PSF

NOMINAL DIMS.				MULLION 'MF4' & 'ZM4'		MULLION 'MF6' & 'ZM6'	
WIDTH (W1) INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
99–1/2	120	84	25–1/4	110.0	126.0	110.0	126.0
			28	110.0	126.0	110.0	126.0
			30	110.0	126.0	110.0	126.0
			33	110.0	126.0	110.0	126.0
		87	25–1/4	110.0	126.0	110.0	126.0
			28	110.0	126.0	110.0	126.0
			30	110.0	126.0	110.0	126.0
			33	110.0	126.0	110.0	126.0
		90	25–1/4	110.0	126.0	110.0	126.0
			28	110.0	126.0	110.0	126.0
			30	110.0	126.0	110.0	126.0
			33	110.0	126.0	110.0	126.0
		96	25–1/4	110.0	126.0	110.0	126.0
			28	110.0	126.0	110.0	126.0
			30	110.0	126.0	110.0	126.0
			33	110.0	126.0	110.0	126.0
99–1/2	132	84	25–1/4	108.7	108.7	110.0	126.0
			28	106.3	106.3	110.0	126.0
			30	104.6	104.6	110.0	126.0
		87	25–1/4	109.9	109.9	110.0	126.0
			28	107.5	107.5	110.0	126.0
			30	105.7	105.7	110.0	126.0
		90	25–1/4	110.0	111.4	110.0	126.0
			28	108.8	108.8	110.0	126.0
			30	107.1	107.1	110.0	126.0
		96	25–1/4	110.0	115.0	110.0	126.0
			28	110.0	112.3	110.0	126.0
			30	110.0	110.4	110.0	126.0
		102	25–1/4	110.0	119.7	110.0	126.0
			28	110.0	116.8	110.0	126.0
			30	110.0	114.7	110.0	126.0
99–1/2	144	84	25–1/4	89.6	89.6	110.0	126.0
			28	87.7	87.7	110.0	126.0
		87	25–1/4	90.2	90.2	110.0	126.0
			28	88.2	88.2	110.0	126.0
		90	25–1/4	90.9	90.9	110.0	126.0
			28	88.9	88.9	110.0	126.0
		96	25–1/4	92.7	92.7	110.0	126.0
			28	90.7	90.7	110.0	126.0
		102	25–1/4	95.2	95.2	110.0	126.0
			28	93.0	93.0	110.0	126.0
		108	25–1/4	98.5	98.5	110.0	126.0
			28	96.1	96.1	110.0	126.0
		114	25–1/4	102.6	102.6	110.0	126.0
			28	100.0	100.0	110.0	126.0
99–1/2	162–1/2	84	25–1/4	65.8	65.8	94.8	94.8
		87	25–1/4	65.9	65.9	95.1	95.1
		90	25–1/4	66.2	66.2	95.5	95.5
		96	25–1/4	67.2	67.2	96.9	96.9
		102	25–1/4	68.7	68.7	99.1	99.1
		108	25–1/4	70.7	70.7	102.0	102.0
		114	25–1/4	73.3	73.3	105.7	105.7
		120	25–1/4	76.4	76.4	110.0	110.1
72	155–1/2	114	34–1/8	65.8	65.8	96.5	96.5
84	132	102	48–1/8	65.8	65.8	109.9	109.9
81"	140–1/2"	112–1/8"	32–5/8"	–	–	110.0	117.0

OUTSWING DOORS
SEE SEPARATE APPROVAL

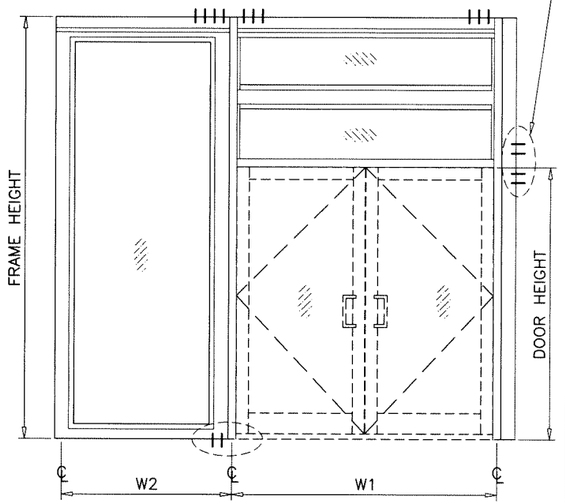
ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A, B	5
AA, BB	8
C	5

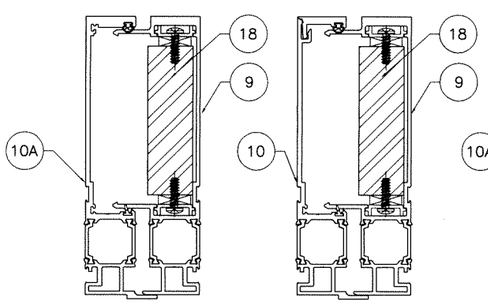




ANCHOR TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
A, B	4
AA, BB	6

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT HORIZONTAL END
A, B	3 (INTO CONC.)
AA, BB	5 (INTO CONC.)
A, AA, B, BB	9 (INTO GROUT FILLED BLOCK)

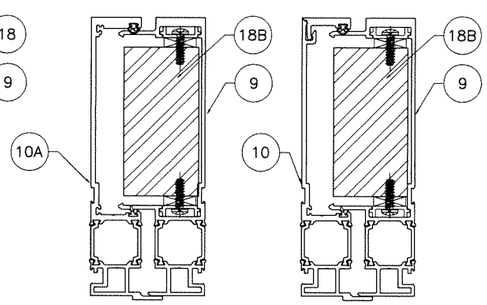




DOOR MULLION 'MF4'

DOOR MULLION 'ZM4'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	7.404	3.761
TOTAL Ix ALUM + Ix STL X 2.9	30.053	



DOOR MULLION 'MF6'

DOOR MULLION 'ZM6'

	Ix IN^4	Sx IN^3
ALUMINUM	8.796	2.819
STEEL	12.011	6.102
TOTAL Ix ALUM + Ix STL X 2.9	43.280	

DOOR MULLION

Sealed: 4/30/2025

FL #47097

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

STORE\25–27F–RWW

RWW–7000 XL–3 ALUMINUM WINDOW WALL SYS. (S.M.I.)

REFLECTION WINDOW + WALL
2525 North Elston Avenue
Chicago, Illinois 60647
Phone: 773 770 0377 www.reflectionwindow.com

revisions:

no	date	by	description

date: 02–04–25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25–27F

sheet 7 of 17

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		ANCHOR TYPES 'A' & 'B'		
		A4/B4	A6/B6	A8/B8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)
42"	96"	162.0	162.0	162.0
48"		149.3	162.0	162.0
49−3/4"		144.1	162.0	162.0
54"		132.7	162.0	162.0
60"		119.5	162.0	162.0
64"		112.0	162.0	162.0
67−1/2"		106.2	159.3	162.0
42"	102"	160.6	162.0	162.0
48"		140.5	162.0	162.0
49−3/4"		135.6	162.0	162.0
54"		124.9	162.0	162.0
60"		112.4	162.0	162.0
64"		105.4	158.1	162.0
67−1/2"		99.9	149.9	162.0
42"	108"	151.7	162.0	162.0
48"		132.7	162.0	162.0
49−3/4"		128.1	162.0	162.0
54"		118.0	162.0	162.0
60"		106.2	159.3	162.0
64"		99.5	149.3	162.0
67−1/2"		94.4	141.6	162.0
72"		88.5	126.0	126.0
78"		81.7	122.5	126.0
84"		75.8	113.8	126.0
42"	114"	143.7	162.0	162.0
48"		125.7	162.0	162.0
49−3/4"		121.3	162.0	162.0
54"		111.8	162.0	162.0
60"		100.6	150.9	162.0
64"		94.3	141.5	162.0
72"		83.8	125.7	126.0
78"		77.4	116.1	126.0
84"		71.9	107.8	126.0
42"	120"	136.5	162.0	162.0
48"		119.5	162.0	162.0
49−3/4"		115.3	162.0	162.0
54"		106.2	159.3	162.0
60"		95.6	142.2	162.0
64"		89.6	126.0	126.0
72"		79.6	119.5	126.0
78"		73.5	110.3	126.0
84"		68.3	102.4	126.0
42"	126"	130.0	162.0	162.0
48"		113.8	162.0	162.0
49−3/4"		109.8	156.0	162.0
52−1/2"		104.0	156.0	162.0
54"		101.1	126.0	126.0
60"		91.0	126.0	126.0
64"		85.3	126.0	126.0
72"		75.8	113.8	126.0
78"		70.0	105.0	126.0
84"		65.0	97.5	126.0

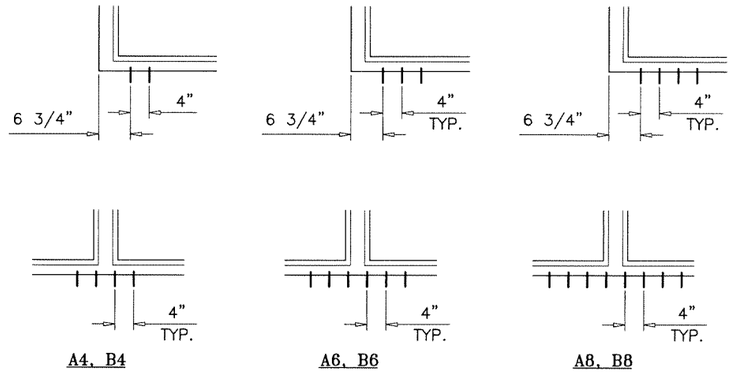
ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		ANCHOR TYPES 'A' & 'B'		
		A4/B4	A6/B6	A8/B8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)
42"	132"	124.1	126.0	126.0
48"		108.6	126.0	126.0
49−3/4"		104.8	126.0	126.0
54"		96.5	126.0	126.0
60"		86.9	126.0	126.0
64"		81.4	122.2	126.0
72"		72.4	108.6	126.0
78"		66.8	100.2	126.0
84"		62.1	93.1	124.1
42"	138"	118.7	126.0	126.0
48"		103.9	126.0	126.0
49−3/4"		100.2	126.0	126.0
54"		92.3	126.0	126.0
60"		83.1	124.6	126.0
64"		77.9	116.9	126.0
72"		69.2	103.9	126.0
78"		63.9	95.9	126.0
84"		59.4	89.0	118.7
42"	144"	113.8	126.0	126.0
48"		99.5	126.0	126.0
49−3/4"		96.0	126.0	126.0
54"		88.5	126.0	126.0
60"		79.6	119.5	126.0
64"		74.7	112.0	126.0
72"		66.4	99.5	126.0
78"		61.3	91.9	122.5
42"	150"	109.2	126.0	126.0
48"		95.6	126.0	126.0
49−3/4"		92.2	126.0	126.0
54"		84.9	126.0	126.0
60"		76.5	114.7	126.0
64"		71.7	107.5	126.0
72"		63.7	95.6	126.0
78"		58.8	88.2	117.6

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

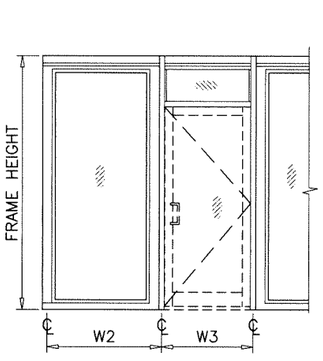
NOMINAL DIMS.		ANCHOR TYPES 'A' & 'B'		
		A4/B4	A6/B6	A8/B8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(−)	EXT.(+) INT.(−)	EXT.(+) INT.(−)
42"	156"	105.0	126.0	126.0
48"		91.9	126.0	126.0
49−3/4"		88.7	126.0	126.0
54"		81.7	122.5	126.0
60"		73.5	110.3	126.0
64"		68.9	103.4	126.0
72"		61.3	91.9	122.5
42"	162"	101.1	126.0	126.0
48"		88.5	126.0	126.0
49−3/4"		85.4	126.0	126.0
54"		78.7	118.0	126.0
60"		70.8	106.2	126.0
64"		66.4	99.5	126.0
72"		59.0	88.5	118.0
42"	168"	97.5	126.0	126.0
48"		85.3	126.0	126.0
49−3/4"		82.3	123.5	126.0
54"		75.8	113.8	126.0
60"		68.3	102.4	126.0
64"		64.0	96.0	126.0
72"		56.9	85.3	113.8
42"	174"	94.2	126.0	126.0
48"		82.4	123.6	126.0
49−3/4"		79.5	119.2	126.0
54"		73.2	109.8	126.0
60"		65.9	98.9	126.0
64"		61.8	92.7	123.6
68−1/2"		57.7	86.6	115.5
42"	176−1/4"	93.0	126.0	126.0
48"		81.3	122.0	126.0
49−3/4"		78.5	117.7	126.0
54"		72.3	108.4	126.0
60"		65.1	97.6	126.0
64"		61.0	91.5	122.0

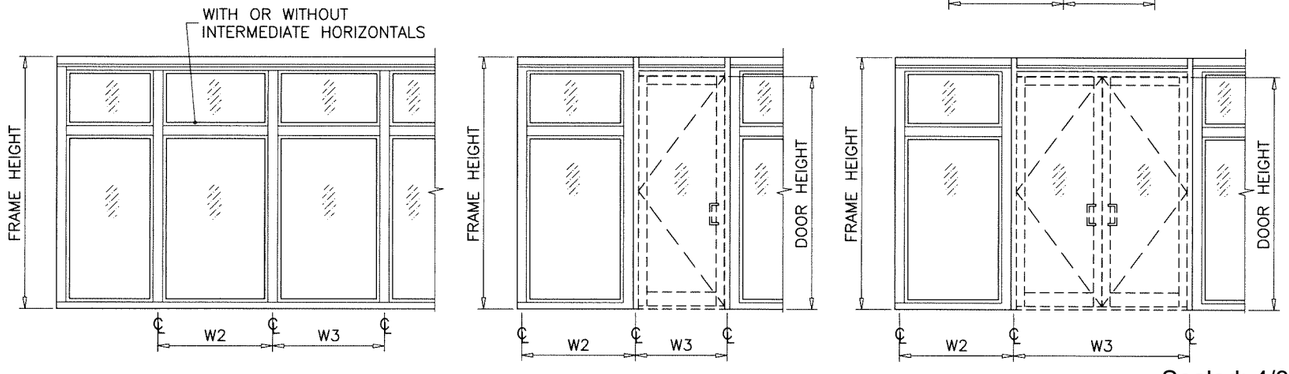
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

A4, B4 = (4) ANCHORS AT MULLION CENTER OR (2) ANCHORS AT JAMB SIDE
A6, B6 = (6) ANCHORS AT MULLION CENTER OR (3) ANCHORS AT JAMB SIDE
A8, B8 = (8) ANCHORS AT MULLION CENTER OR (4) ANCHORS AT JAMB SIDE





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

ANCHORS

Sealed: 4/30/2025
FL #47097

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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RWW-7000 XL-3 ALUMINUM WINDOW WALL SYS. (S.M.I.)

REFLECTION WINDOW + WALL
2525 North Elston Avenue
Chicago, Illinois 60647
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revisions:

no	date	by	description

date: 02-04-25
scale: –
dr. by: TARIQ
chk. by:

drawing no. 25−27F

sheet 8 of 17

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		ANCHOR TYPES 'AA' & 'BB'			
		AA4/BB4	AA6/BB6	AA8/BB8	AA10/BB10
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	96"	113.7	162.0	162.0	162.0
48"		99.5	149.3	162.0	162.0
49–3/4"		96.0	144.0	162.0	162.0
54"		88.5	132.7	162.0	162.0
60"		79.6	119.4	159.2	162.0
64"		74.6	111.9	149.3	162.0
67–1/2"		70.8	106.1	141.5	162.0
42"	102"	107.0	160.5	162.0	162.0
48"		93.7	140.5	162.0	162.0
49–3/4"		90.4	135.5	162.0	162.0
54"		83.2	124.9	162.0	162.0
60"		74.9	112.4	149.8	162.0
64"		70.2	105.4	140.5	162.0
67–1/2"		66.6	99.9	133.2	162.0
42"	108"	101.1	151.6	162.0	162.0
48"		88.5	132.7	162.0	162.0
49–3/4"		85.3	128.0	162.0	162.0
54"		78.6	117.9	157.2	162.0
60"		70.8	106.1	141.5	162.0
64"		66.3	99.5	132.7	162.0
72"		59.0	88.5	117.9	126.0
78"		54.4	81.6	108.9	126.0
84"		50.5	75.8	101.1	126.0
42"	114"	95.8	143.6	162.0	162.0
48"		83.8	125.7	162.0	162.0
49–3/4"		80.8	121.3	161.7	162.0
54"		74.5	111.7	149.0	162.0
60"		67.0	100.6	134.1	162.0
64"		62.8	94.3	125.7	126.0
72"		55.9	83.8	111.7	126.0
78"		51.6	77.3	103.1	126.0
84"		47.9	71.8	95.8	119.7
42"	120"	91.0	136.5	162.0	162.0
48"		79.6	119.4	159.2	162.0
49–3/4"		76.8	115.2	153.6	162.0
54"		70.8	106.1	141.5	162.0
60"		63.7	95.5	126.3	157.9
64"		59.7	89.6	119.4	126.0
72"		53.1	79.6	106.1	126.0
78"		49.0	73.5	98.0	122.5
84"		45.5	68.2	91.0	113.7
42"	126"	86.6	130.0	162.0	162.0
48"		75.8	113.7	151.6	162.0
49–3/4"		73.1	104.0	138.6	162.0
54"		67.4	101.1	126.0	126.0
60"		60.7	91.0	121.3	126.0
64"		56.9	85.3	113.7	126.0
72"		50.5	75.8	101.1	126.0
78"		46.7	70.0	93.3	116.6
84"		43.3	65.0	86.6	108.3

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

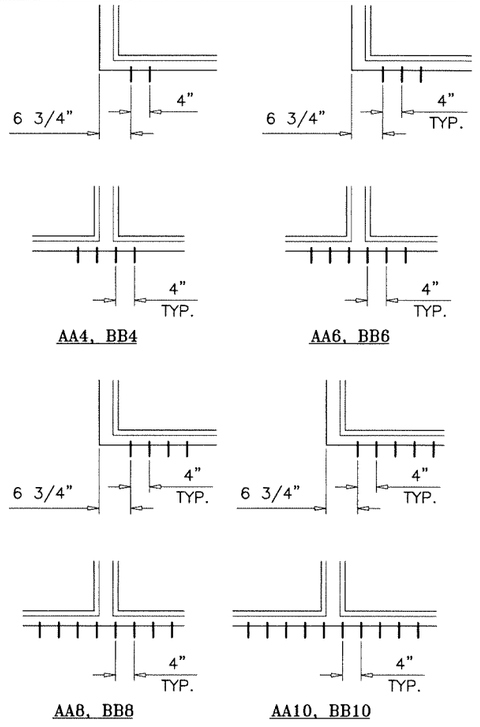
NOMINAL DIMS.		ANCHOR TYPES 'AA' & 'BB'			
		AA4/BB4	AA6/BB6	AA8/BB8	AA10/BB10
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	132"	82.7	124.1	126.0	126.0
48"		72.4	108.6	126.0	126.0
49–3/4"		69.8	104.7	126.0	126.0
54"		64.3	96.5	126.0	126.0
60"		57.9	86.8	115.8	126.0
64"		54.3	81.4	108.6	126.0
72"		48.2	72.4	96.5	120.6
78"		44.5	66.8	89.1	111.3
84"		41.4	62.0	82.7	103.4
42"	138"	79.1	118.7	126.0	126.0
48"		69.2	103.8	126.0	126.0
49–3/4"		66.8	100.2	126.0	126.0
54"		61.5	92.3	123.1	126.0
60"		55.4	83.1	110.8	126.0
64"		51.9	77.9	103.8	126.0
72"		46.1	69.2	92.3	115.4
78"		42.6	63.9	85.2	106.5
84"		39.6	59.3	79.1	98.9
42"	144"	75.8	113.7	126.0	126.0
48"		66.3	99.5	126.0	126.0
49–3/4"		64.0	96.0	126.0	126.0
54"		59.0	88.5	117.9	126.0
60"		53.1	79.6	106.1	126.0
64"		49.8	74.6	99.5	124.4
72"		44.2	66.3	88.5	110.6
78"		40.8	61.2	81.6	102.1
42"	150"	72.8	109.2	126.0	126.0
48"		63.7	95.5	126.0	126.0
49–3/4"		61.4	92.2	122.9	126.0
54"		56.6	84.9	113.2	126.0
60"		50.9	76.4	101.9	126.0
64"		47.8	71.6	95.5	119.4
72"		42.5	63.7	84.9	106.1
78"		39.2	58.8	78.4	98.0
42"	156"	70.0	105.0	126.0	126.0
48"		61.2	91.9	122.5	126.0
49–3/4"		59.1	88.6	118.2	126.0
54"		54.4	81.6	108.9	126.0
60"		49.0	73.5	98.0	122.5
64"		45.9	68.9	91.9	114.8
72"		40.8	61.2	81.6	102.1
42"	162"	67.4	101.1	126.0	126.0
48"		59.0	88.5	117.9	126.0
49–3/4"		56.9	85.3	113.8	126.0
54"		52.4	78.6	104.8	126.0
60"		47.2	70.8	94.3	117.9
64"		44.2	66.3	88.5	110.6
72"		39.3	59.0	78.6	98.3

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

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

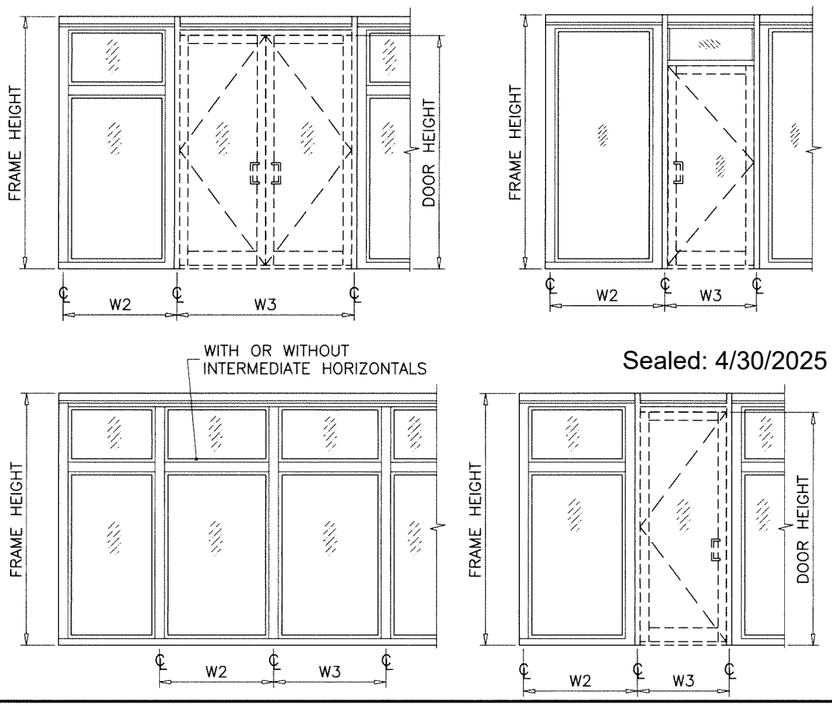
NOMINAL DIMS.		ANCHOR TYPES 'AA' & 'BB'			
		AA4/BB4	AA6/BB6	AA8/BB8	AA10/BB10
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	168"	65.0	97.5	126.0	126.0
48"		56.9	85.3	113.7	126.0
49–3/4"		54.9	82.3	109.7	126.0
54"		50.5	75.8	101.1	126.0
60"		45.5	68.2	91.0	113.7
64"		42.5	64.0	85.3	106.6
72"		37.9	56.9	75.8	94.8
42"	174"	62.7	94.1	125.5	126.0
48"		54.9	82.4	109.8	126.0
49–3/4"		53.0	79.5	105.9	126.0
54"		48.8	73.2	97.6	122.0
60"		43.9	65.9	87.8	109.8
64"		41.2	61.8	82.4	102.9
68–1/2"		38.5	57.7	76.9	96.2
42"	176–1/4"	61.9	92.9	123.9	126.0
48"		54.2	81.3	108.4	126.0
49–3/4"		52.3	78.4	104.6	126.0
54"		48.2	72.3	96.4	120.4
60"		43.4	65.0	86.7	108.4
64"		40.6	61.0	81.3	101.6

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

AA4, BB4 = (4) ANCHORS AT MULLION CENTER OR (2) ANCHORS AT JAMB SIDE
AA6, BB6 = (6) ANCHORS AT MULLION CENTER OR (3) ANCHORS AT JAMB SIDE
AA8, BB8 = (8) ANCHORS AT MULLION CENTER OR (4) ANCHORS AT JAMB SIDE
AA10, BB10 = (10) ANCHORS AT MULLION CENTER OR (5) ANCHORS AT JAMB SIDE



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ANCHORS

FL #47097

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ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		ANCHOR TYPES 'C'		
		C4	C6	C8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	96"	157.0	162.0	162.0
48"		137.3	162.0	162.0
49–3/4"		132.5	162.0	162.0
54"		122.1	162.0	162.0
60"		109.9	162.0	162.0
64"		103.0	154.5	162.0
67–1/2"		97.7	146.5	162.0
42"	102"	147.7	162.0	162.0
48"		129.3	162.0	162.0
49–3/4"		124.7	162.0	162.0
54"		114.9	162.0	162.0
60"		103.4	155.1	162.0
64"		96.9	145.4	162.0
67–1/2"		91.9	137.9	162.0
42"	108"	139.5	162.0	162.0
48"		122.1	162.0	162.0
49–3/4"		117.8	162.0	162.0
54"		108.5	162.0	162.0
60"		97.7	146.5	162.0
64"		91.6	137.3	162.0
67–1/2"		86.8	130.2	162.0
72"		81.4	122.1	126.0
78"		75.1	112.7	126.0
84"		69.8	104.6	126.0
42"	114"	132.2	162.0	162.0
48"		115.6	162.0	162.0
49–3/4"		111.6	162.0	162.0
54"		102.8	154.2	162.0
60"		92.5	138.8	162.0
64"		86.7	126.0	126.0
72"		77.1	115.6	126.0
78"		71.2	106.8	126.0
84"		66.1	99.1	126.0
42"	120"	125.6	162.0	162.0
48"		109.9	162.0	162.0
49–3/4"		106.0	159.0	162.0
54"		97.7	146.5	162.0
60"		87.9	130.8	162.0
64"		82.4	123.6	126.0
72"		73.2	109.9	126.0
78"		67.6	101.4	126.0
84"		62.8	94.2	125.6
42"	126"	119.6	162.0	162.0
48"		104.6	157.0	162.0
49–3/4"		101.0	143.5	162.0
54"		93.0	126.0	126.0
60"		83.7	125.6	126.0
64"		78.5	117.7	126.0
72"		69.8	104.6	126.0
78"		64.4	96.6	126.0
84"		59.8	89.7	119.6

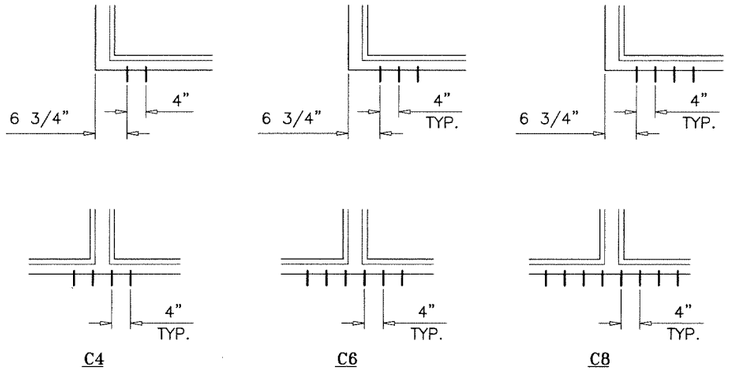
ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		ANCHOR TYPES 'C'		
		C4	C6	C8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	132"	114.1	126.0	126.0
48"		99.9	126.0	126.0
49–3/4"		96.4	126.0	126.0
54"		88.8	126.0	126.0
60"		79.9	119.9	126.0
64"		74.9	112.4	126.0
72"		66.6	99.9	126.0
78"		61.5	92.2	122.9
84"		57.1	85.6	114.1
42"	138"	109.2	126.0	126.0
48"		95.5	126.0	126.0
49–3/4"		92.2	126.0	126.0
54"		84.9	126.0	126.0
60"		76.4	114.6	126.0
64"		71.7	107.5	126.0
72"		63.7	95.5	126.0
78"		58.8	88.2	117.6
84"		54.6	81.9	109.2
42"	144"	104.6	126.0	126.0
48"		91.6	126.0	126.0
49–3/4"		88.3	126.0	126.0
54"		81.4	122.1	126.0
60"		73.2	109.9	126.0
64"		68.7	103.0	126.0
72"		61.0	91.6	122.1
78"		56.3	84.5	112.7
42"	150"	100.5	126.0	126.0
48"		87.9	126.0	126.0
49–3/4"		84.8	126.0	126.0
54"		78.1	117.2	126.0
60"		70.3	105.5	126.0
64"		65.9	98.9	126.0
72"		58.6	87.9	117.2
78"		54.1	81.1	108.2

ANCHOR LOAD CAPACITY – PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

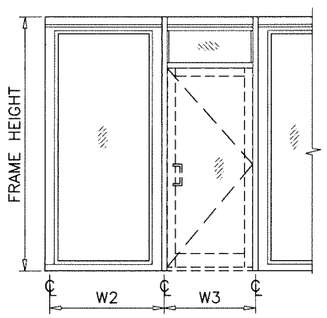
NOMINAL DIMS.		ANCHOR TYPES 'C'		
		C4	C6	C8
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
42"	156"	96.6	126.0	126.0
48"		84.5	126.0	126.0
49–3/4"		81.5	122.3	126.0
54"		75.1	112.7	126.0
60"		67.6	101.4	126.0
64"		63.4	95.1	126.0
72"		56.3	84.5	112.7
42"	162"	93.0	126.0	126.0
48"		81.4	122.1	126.0
49–3/4"		78.5	117.8	126.0
54"		72.3	108.5	126.0
60"		65.1	97.7	126.0
64"		61.0	91.6	122.1
72"		54.3	81.4	108.5
42"	168"	89.7	126.0	126.0
48"		78.5	117.7	126.0
49–3/4"		75.7	113.6	126.0
54"		69.8	104.6	126.0
60"		62.8	94.2	125.6
64"		58.9	88.3	117.7
72"		52.3	78.5	104.6
42"	174"	86.6	126.0	126.0
48"		75.8	113.7	126.0
49–3/4"		73.1	109.7	126.0
54"		67.4	101.0	126.0
60"		60.6	90.9	121.2
64"		56.8	85.2	113.7
68–1/2"		53.1	79.6	106.2
42"	176–1/4"	85.5	126.0	126.0
48"		74.8	112.2	126.0
49–3/4"		72.2	108.3	126.0
54"		66.5	99.7	126.0
60"		59.8	89.8	119.7
64"		56.1	84.2	112.2

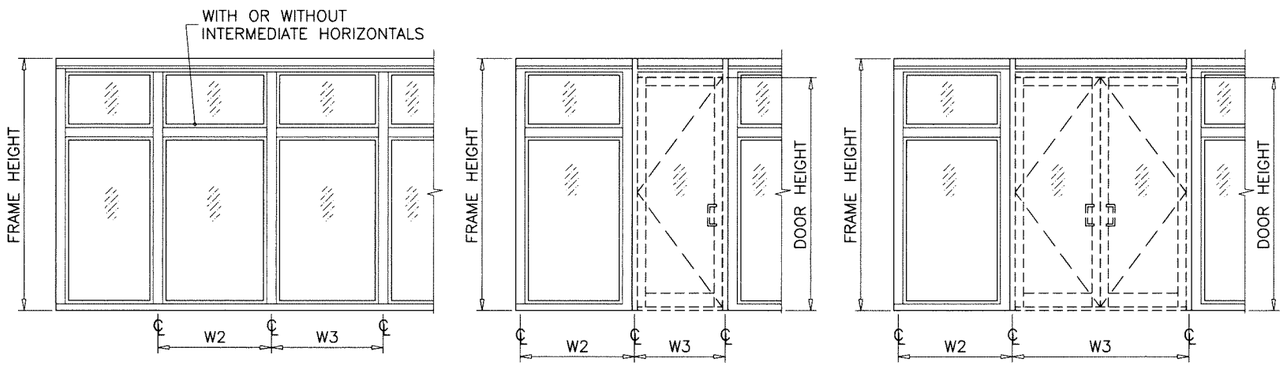
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



ANCHORS TYPES: SEE SHEET 9 FOR DESCRIPTION

C4 = (4) ANCHORS AT MULLION CENTER OR (2) ANCHORS AT JAMB SIDE
C6 = (6) ANCHORS AT MULLION CENTER OR (3) ANCHORS AT JAMB SIDE
C8 = (8) ANCHORS AT MULLION CENTER OR (4) ANCHORS AT JAMB SIDE





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

ANCHORS

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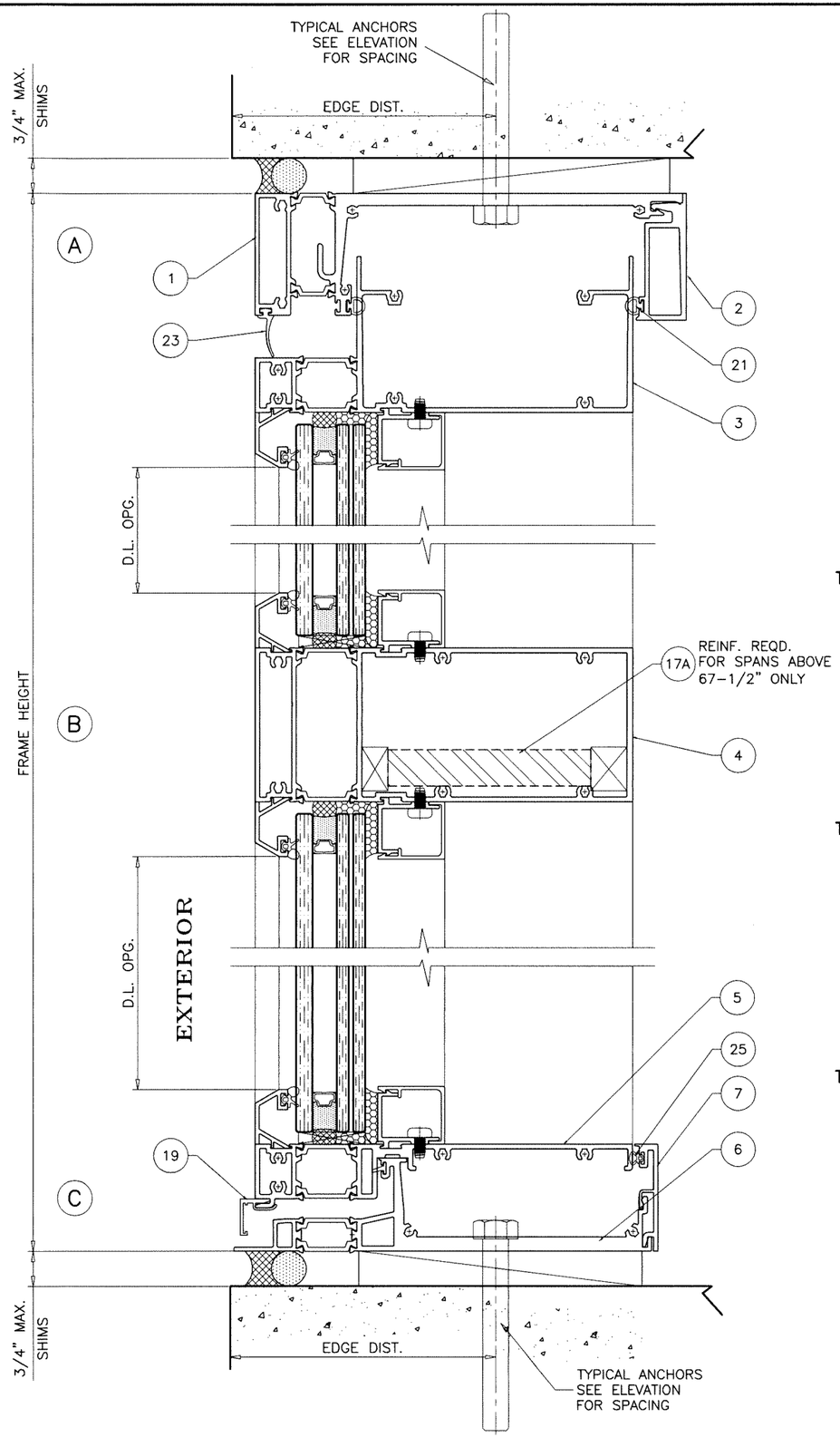

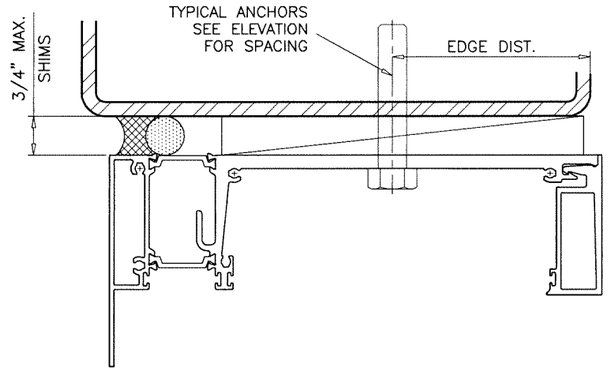

METAL STRUCTURE NOT BY 'REFLECTION WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'– 1/2" DIA. SCREW–BOLT+ BY 'DEWALT'

INTO 3000 PSI MIN. CONCRETE (HEAD/SILL/JAMBS)
2–1/2" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
3–1/2" MIN. EDGE DISTANCE

INTO C–90 GROUT FILLED BLOCKS (JAMBS)
2–1/2" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
2–5/8" MIN. EDGE DISTANCE

TYPE 'B'– 1/2" DIA. KH–EZ BY 'HILTI'

INTO 3000 PSI MIN. CONCRETE (HEAD/SILL/JAMBS)
3" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
3–1/2" MIN. EDGE DISTANCE

INTO C–90 GROUT FILLED BLOCKS (JAMBS)
2–1/4" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
1–3/4" MIN. EDGE DISTANCE

TYPE 'C'– 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
3/4" MIN. EDGE DISTANCE
1/8" THK. MIN. ALUMINUM (6063–T6)
1/8" THK. MIN. STEEL (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'AA'– 1/2" DIA. SCREW–BOLT+ BY 'DEWALT'

INTO 5000 PSI MIN. CONCRETE (HEAD/SILL/JAMBS)
2–1/2" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
2" MIN. EDGE DISTANCE

TYPE 'BB'– 1/2" DIA. KH–EZ BY 'HILTI'

INTO 5000 PSI MIN. CONCRETE (HEAD/SILL/JAMBS)
3" MIN. EMBED
4" MIN. CENTERLINE–TO–CENTERLINE SPACING
2" MIN. EDGE DISTANCE

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

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JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #47097

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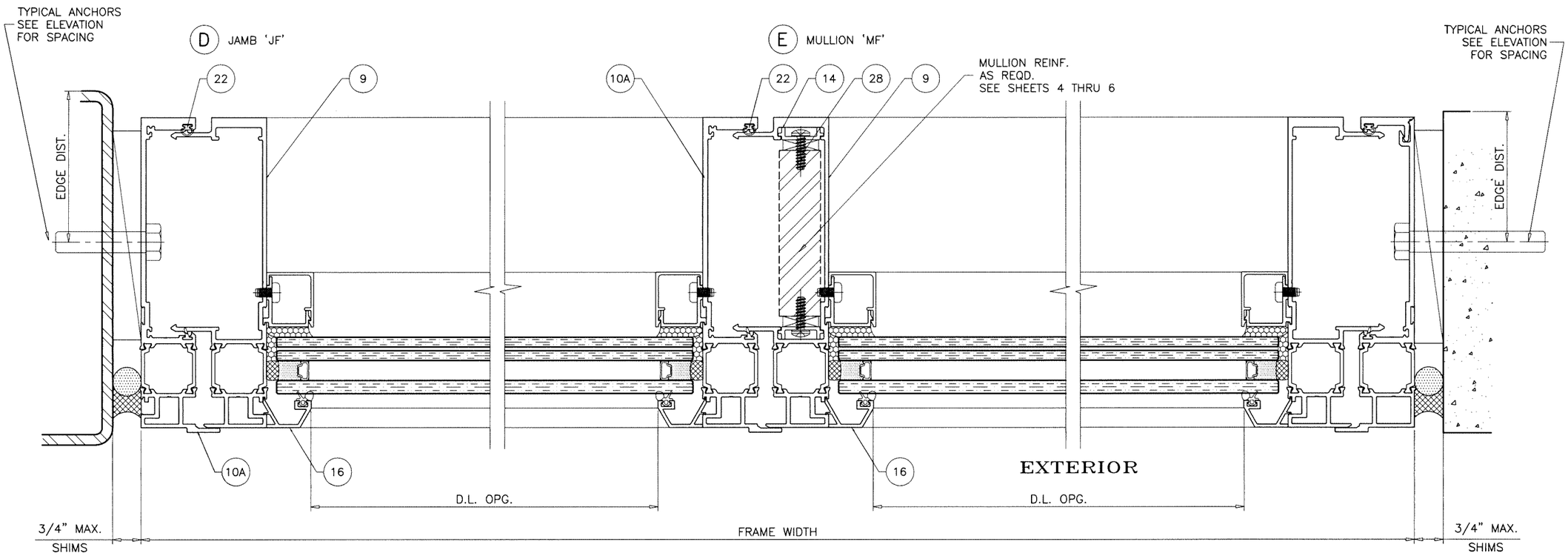

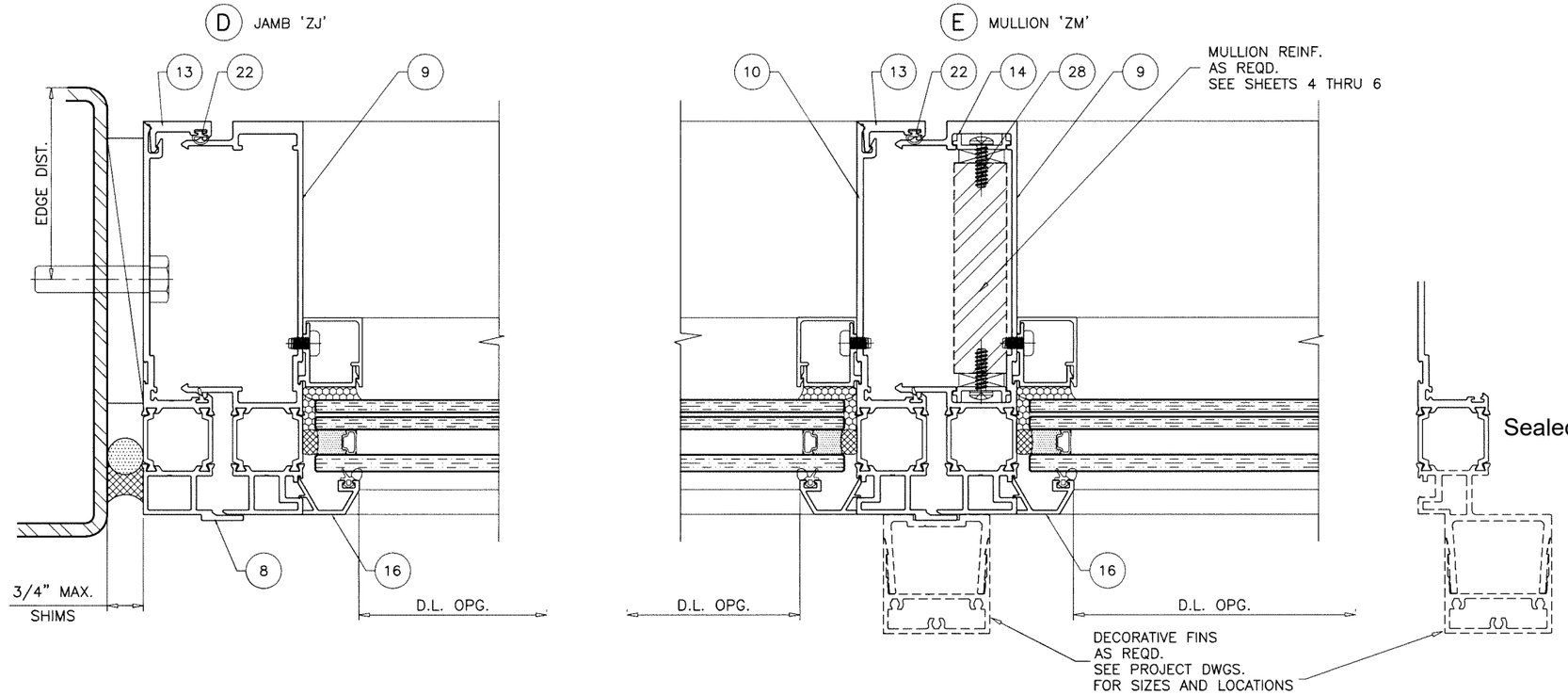

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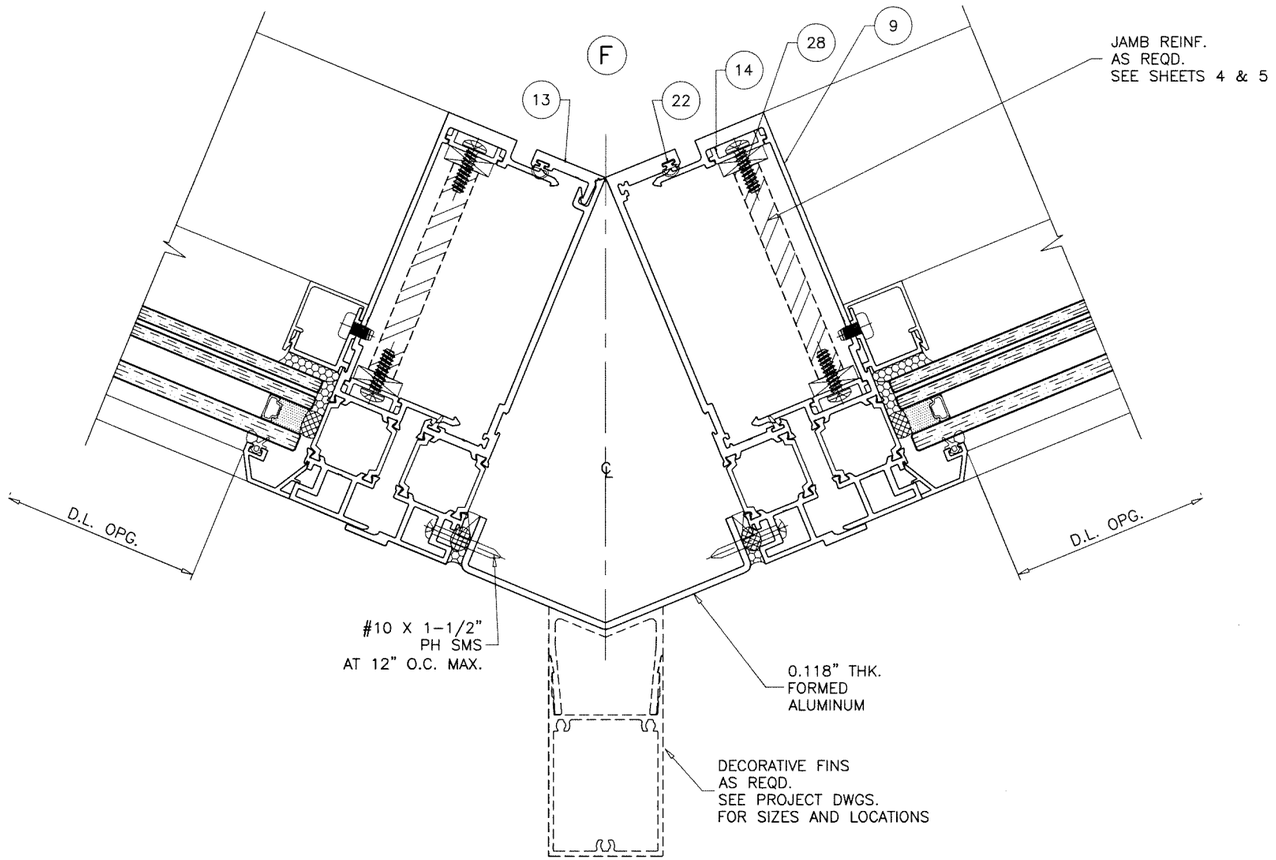

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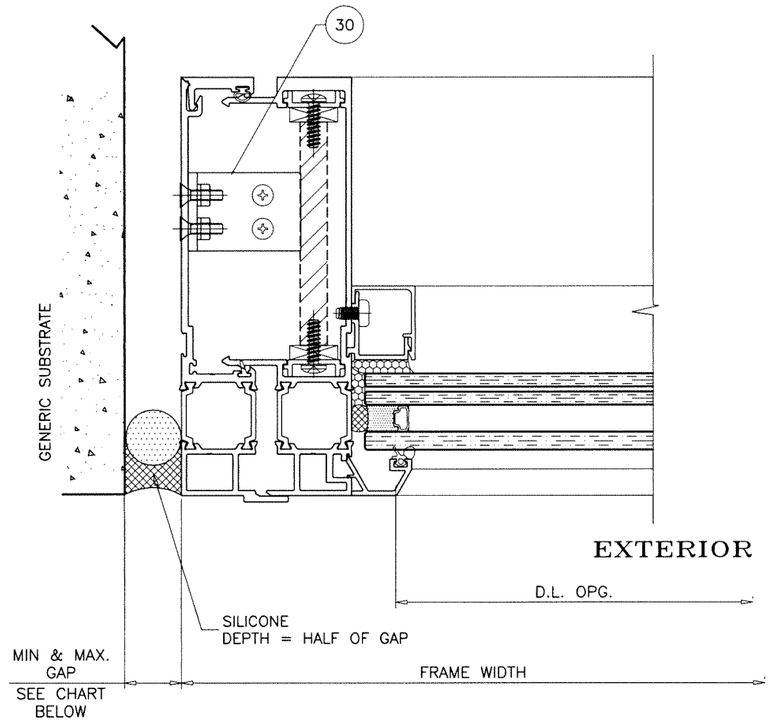

MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
120"	5/8"	1-1/4"
138"	11/16"	1-1/4"
150"	3/4"	1-1/4"
162"	13/16"	1-1/4"
176-1/4"	15/16"	1-1/4"

NOTE:
SILICONE MOVEMENT CONSIDERED = 50% 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.

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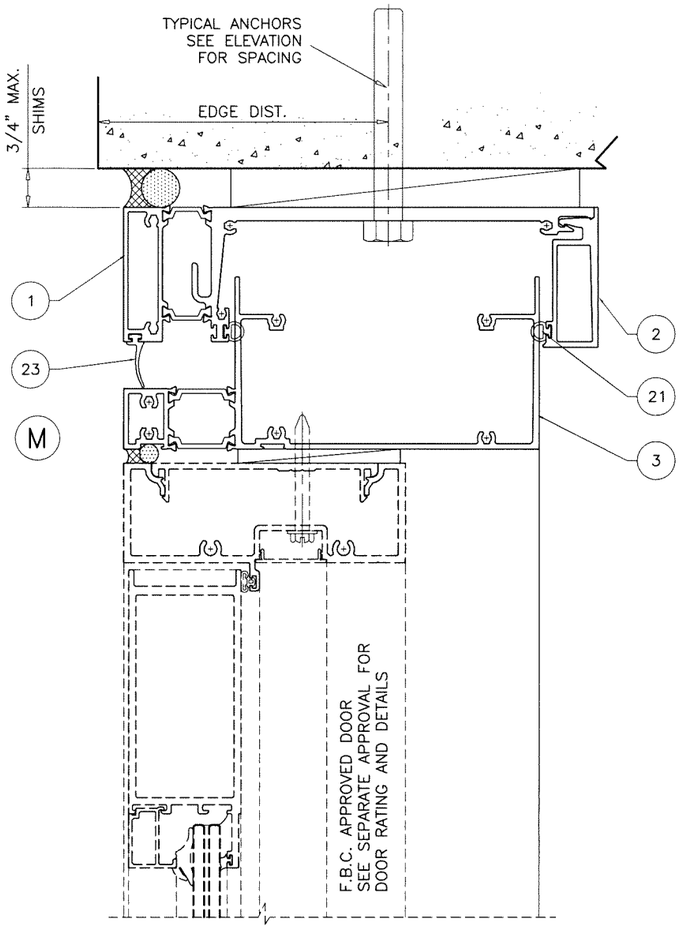

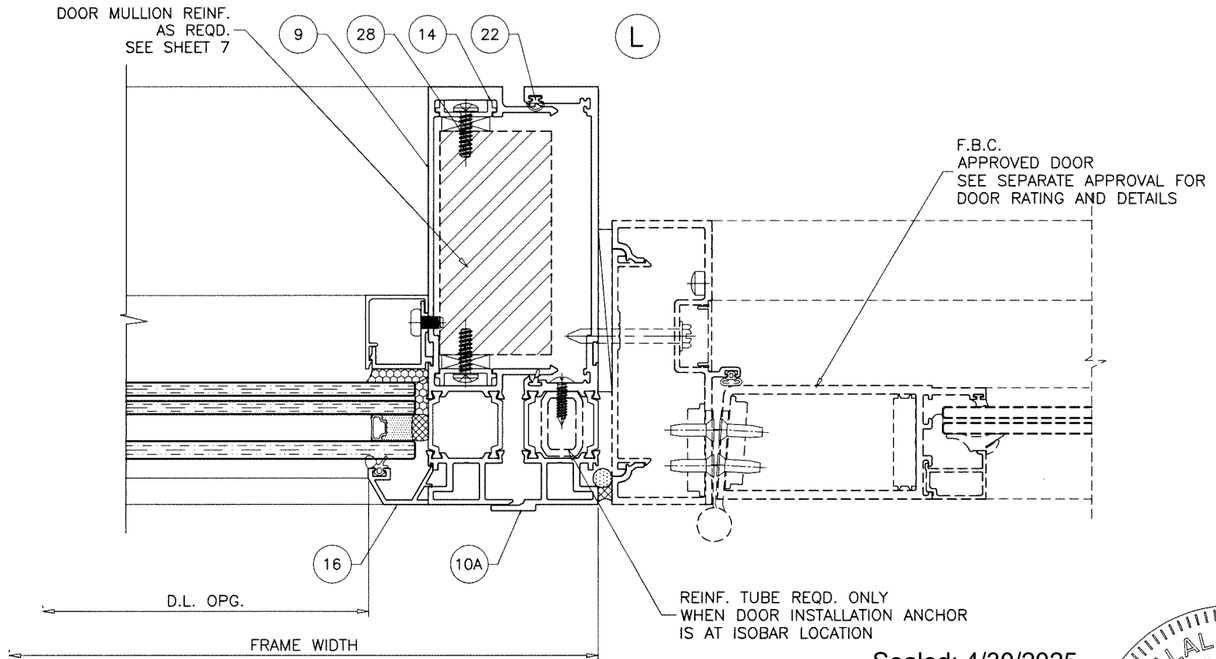

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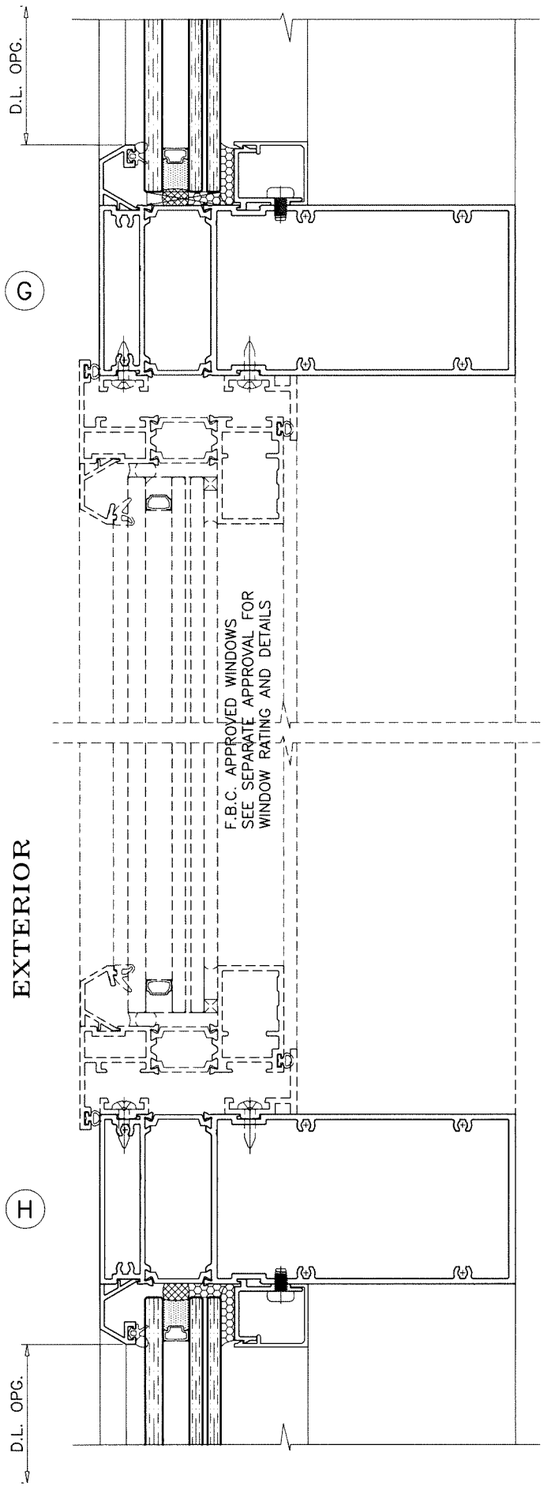
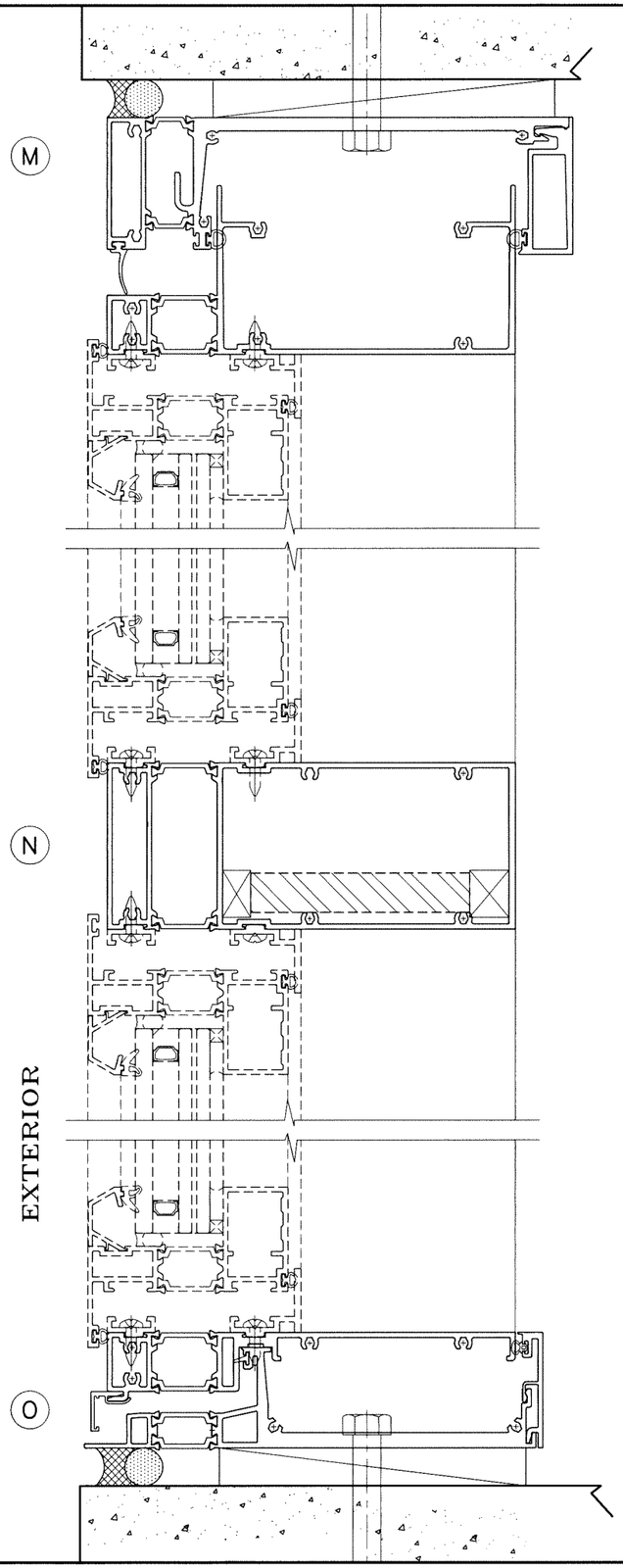
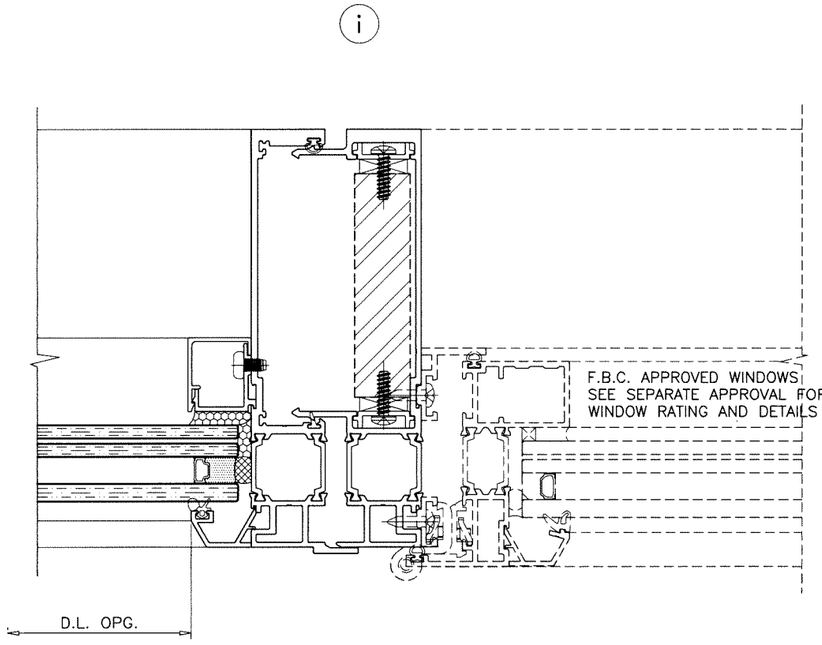
sheet 13 of 17







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FL #47097

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
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REFLECTION WINDOW + WALL
2525 North Elston Avenue
Chicago, Illinois 60647
Phone: 773 770 0377 www.reflectionwindow.com

revisions:

no	date	by	description

date: 02-04-25
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 25-27F

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	–	–	HEAD RECEPTOR	6063–T6	–
2	–	–	HEAD RECEPTOR BACK	6063–T6	–
3	–	–	FRAME HEAD	6063–T6	–
4	–	–	FRAME HORIZONTAL	6063–T6	–
5	–	–	FRAME SILL	6063–T6	–
6	–	–	SILL RECEPTOR	6063–T6	–
7	–	–	SILL RECEPTOR BACK	6063–T6	–
8	–	–	FEMALE JAMB	6063–T6	–
9	–	–	MALE MULLION	6063–T6	–
10	–	–	FEMALE ZIPPER MULLION	6063–T6	–
10A	–	–	FEMALE MULLION	6063–T6	–
11	–	–	GLASS STOP	6063–T6	–
12	–	–	GLASS STOP COVER	6063–T6	–
13	–	–	ZIPPER SNAP	6063–T6	–
14	–	–	REINFORCING GUIDE	6063–T6	–
15	–	–	–	–	–
16	–	–	GLASS STOP	6063–T6	–
17	–	–	14mm JAMB/MULLION RENFORCING	STEEL	A36, Fu = MIN. = 58 KSI
17A	–	–	18mm JAMB/MULLION/HORIZONTAL RENFORCING	STEEL	A36, Fu = MIN. = 58 KSI
17B	–	–	25mm JAMB/MULLION REINFORCING	STEEL	A36, Fu = MIN. = 58 KSI
18	–	–	30mm JAMB/MULLION REINFORCING	STEEL	A36, Fu = MIN. = 58 KSI
18A	–	–	40mm JAMB/MULLION REINFORCING	STEEL	A36, Fu = MIN. = 58 KSI
18B	–	–	50mm JAMB/MULLION REINFORCING	STEEL	A36, Fu = MIN. = 58 KSI
19	–	–	SILL INSERT	6063–T5	–
20	–	–	FINGER GASKET	EPDM / SILICONE	–
21	–	–	BULB GASKET (HORIZONTALS)	EPDM / SILICONE	–
22	–	–	BULB GASKET (VERTICALS)	EPDM / SILICONE	–
23	–	–	HEAD RECEPTOR GASKET	EPDM / SILICONE	–
24	–	–	GLASS STOP GASKET	EPDM / SILICONE	–
25	–	–	PRESS–IN BULB GASKET (SILL)	EPDM / SILICONE	–
26	–	–	SETTING BLOCKS 6" LONG, AT 1/4 POINTS	SILICONE	MIN. DUROMETER 70, SHORE A
27	MBP6–10	AS REQD.	GLASS STOP FASTENERS, AT 8" O.C.	ST. STEEL	–
28	MBP6–20	AS REQD.	REINF. BAR FASTENERS, AT 24" O.C.	ST. STEEL	–
30	–	AS REQD.	SUPPORT ANGLE AT HEAD/SILL	6063–T5	–
31	–	–	–	–	–
32	–	–	–	–	–

SEALANTS:

ALL FRAME CORNERS, JOINTS, SEALED WITH SILICONE SEALANT.

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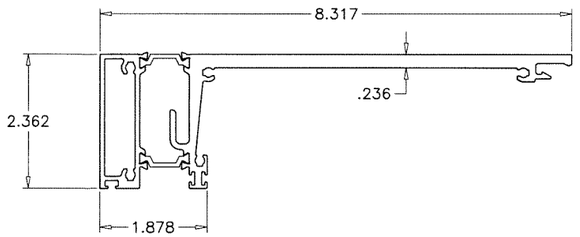
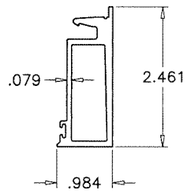
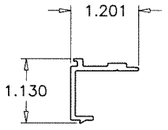


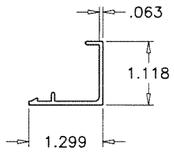
1 HEAD RECEPTOR



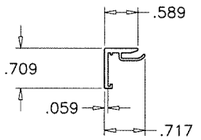
2 HEAD RECEPTOR BACK



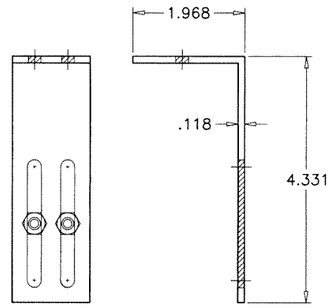
11 GLASS STOP HEAD/SILL/TRANSOM



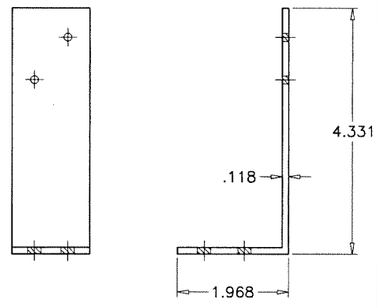
12 GLASS STOP COVER



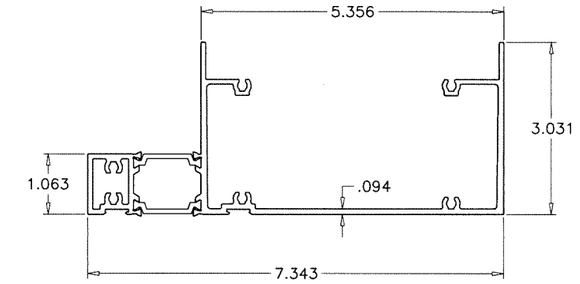
19 SILL INSERT



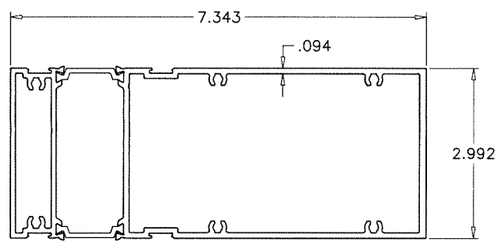
30 SUPPORT ANGLE (HEAD)



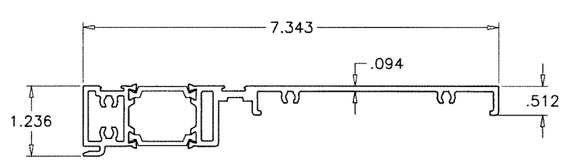
30 SUPPORT ANGLE (SILL)



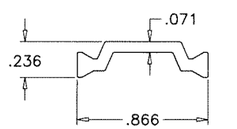
3 FRAME HEAD

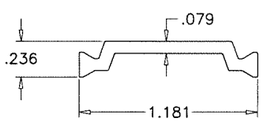


4 FRAME HORIZONTAL



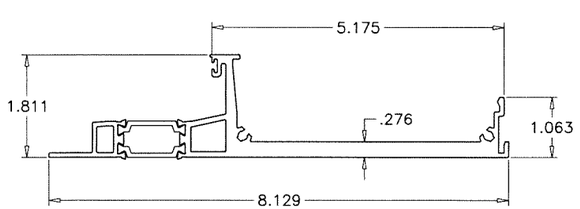
5 FRAME SILL



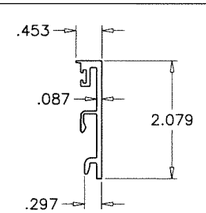


INSULBARS
SCALE 1:1

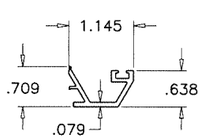
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. – 781°C
SMOKE DENSITY = 1.63



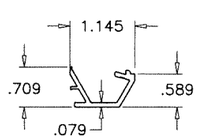
6 SILL RECEPTOR



7 SILL RECEPTOR BACK



16 GLASS STOP (GLASS)



16 GLASS STOP (METAL)

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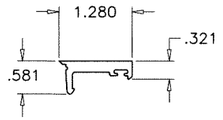
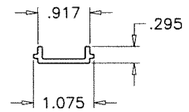
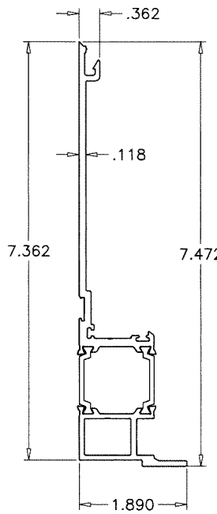


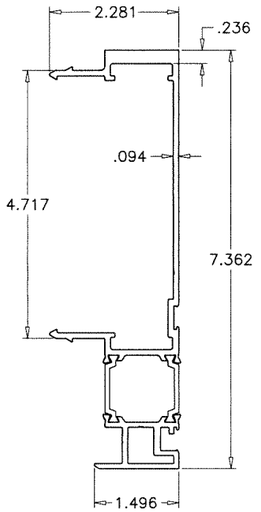
13 ZIPPER SNAP



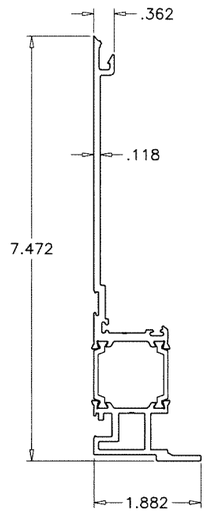
14 RENF. GUIDE



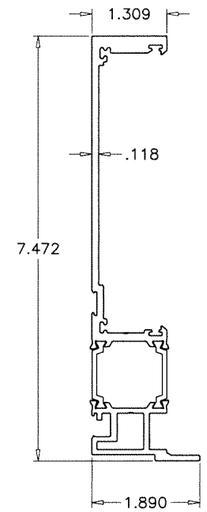
8 FEMALE JAMB



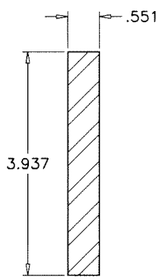
9 MALE JAMB/MULLION



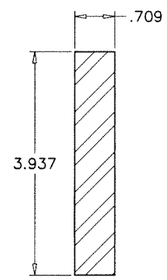
10 FEMALE MULLION (ZM)



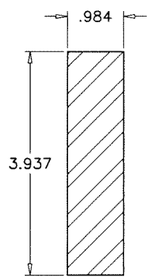
10A FEMALE MULLION (MF)



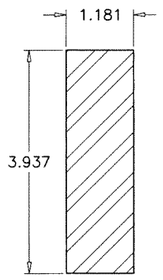
17 14mm JAMB/MULLION REINF.



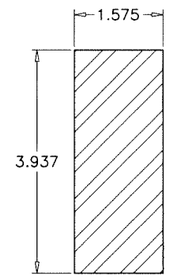
17A 18mm JAMB/MULLION REINF.



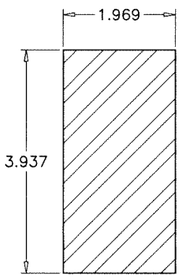
17B 25mm JAMB/MULLION REINF.



18 30mm JAMB/MULLION REINF.



18A 40mm JAMB/MULLION REINF.



18B 50mm JAMB/MULLION REINF.

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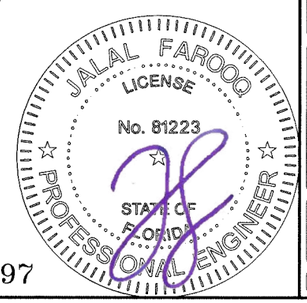

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