Product Approval
USER: Public User

FL #	FL47224
Application Type	New
Code Version	2023
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Mr-Glass Doors & Windows Manufacturing, LLC
Address/Phone/Email	8051 NW 79th Place Medley, FL 33166 (305) 470-8284 ulises@mrglasswindows.com
Authorized Signature	Ulises Senaris ulises@mrglasswindows.com
Technical Representative	Augusto Arias
Address/Phone/Email	8120 NW 84th St Medley, FL 33166 (305) 470-8284 aarias@mrglasswindows.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Panel Walls
Subcategory	Storefronts
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Jalal Farooq
Florida License	PE-81223
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	04/30/2035
Validated By	Abel Carrasco, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL47224_R0_COI_SS - Certificate of Independence 2023.pdf

Referenced Standard and Year (of Standard)

Standard	Year
AAMA 501	2015
TAS 201/203	1994
TAS 202	1994

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	12/20/2024
Date Validated	01/06/2025
Date Pending FBC Approval	01/08/2025
Date Approved	02/11/2025

Summary of Products

FL #	**Model, Number or Name**	**Description**
47224.1	Series MG-5500 Aluminum Window Wall System	Large Missile Impact Resistant Aluminum Window Wall System.
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +75/-75 **Other:** See installation drawing 24-85F for span vs. load combinations and installation details.		**Installation Instructions** FL47224_R0_II_SS - MG-5500 SF (LMI) - DWG 24-85F 2023.1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes **Evaluation Reports** FL47224_R0_AE_SS - MG5500 SF (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes
47224.2	Series MG-5500 Aluminum Window Wall System	Small Missile Impact Resistant Aluminum Window Wall System.
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +100/-100 **Other:** See installation drawing 24-103F for span vs. load combinations and installation details.		**Installation Instructions** FL47224_R0_II_SS - MG-5500 SF (SMI) - DWG 24-103F 2023.1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes **Evaluation Reports** FL47224_R0_AE_SS - MG5500 SF (SMI) - PAE 2023.pdf Created by Independent Third Party: Yes

Back Next

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:

Credit Card Safe securityMETRICS

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

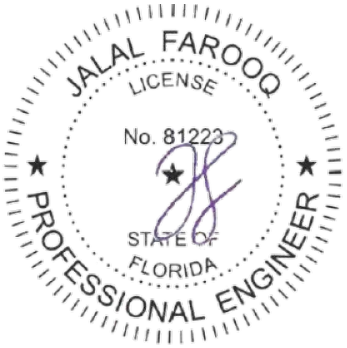
January 23, 2023

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Jalal Farooq, P.E.
CFO

Sealed: 1/23/2023

9360 Sunset Drive, Suite 220 | Miami, FL 33173 | T: 305.264.8100 | F: 305.262.6978 | www.afceng.com | alfarooq@afceng.com

AL-FAROOQ CORPORATION
CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION
RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 47224
Date: 12/3/2024

Detailed Product Description:
Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.
Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166
Model Name: SERIES MG-5500 ALUMINUM WINDOW WALL SYSTEM
Maximum Load: +75 PSF, -75 PSF (Large Missile Impact)
Installation Drawings # 24-85F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.
Comparative analysis used _X_ Yes ___ No

Mandatory Tests (Tested in accordance with AAMA 501/101/I.S.2/NAFS/TAS-202)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
ASTM E283	Air Infiltration Leakage	Hurricane Engineering & Testing, Inc	10/23/2024 10/23/2024 10/23/2024	HETI-24-8160 HETI-24-8184 HETI-24-8215	Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E.
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc	10/23/2024 10/23/2024 10/23/2024	HETI-24-8160 HETI-24-8184 HETI-24-8215	Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E.
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc	10/23/2024 10/23/2024 10/23/2024 10/23/2024	HETI-24-8160 HETI-24-8184 HETI-24-8215 HETI-24-8234	Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E.

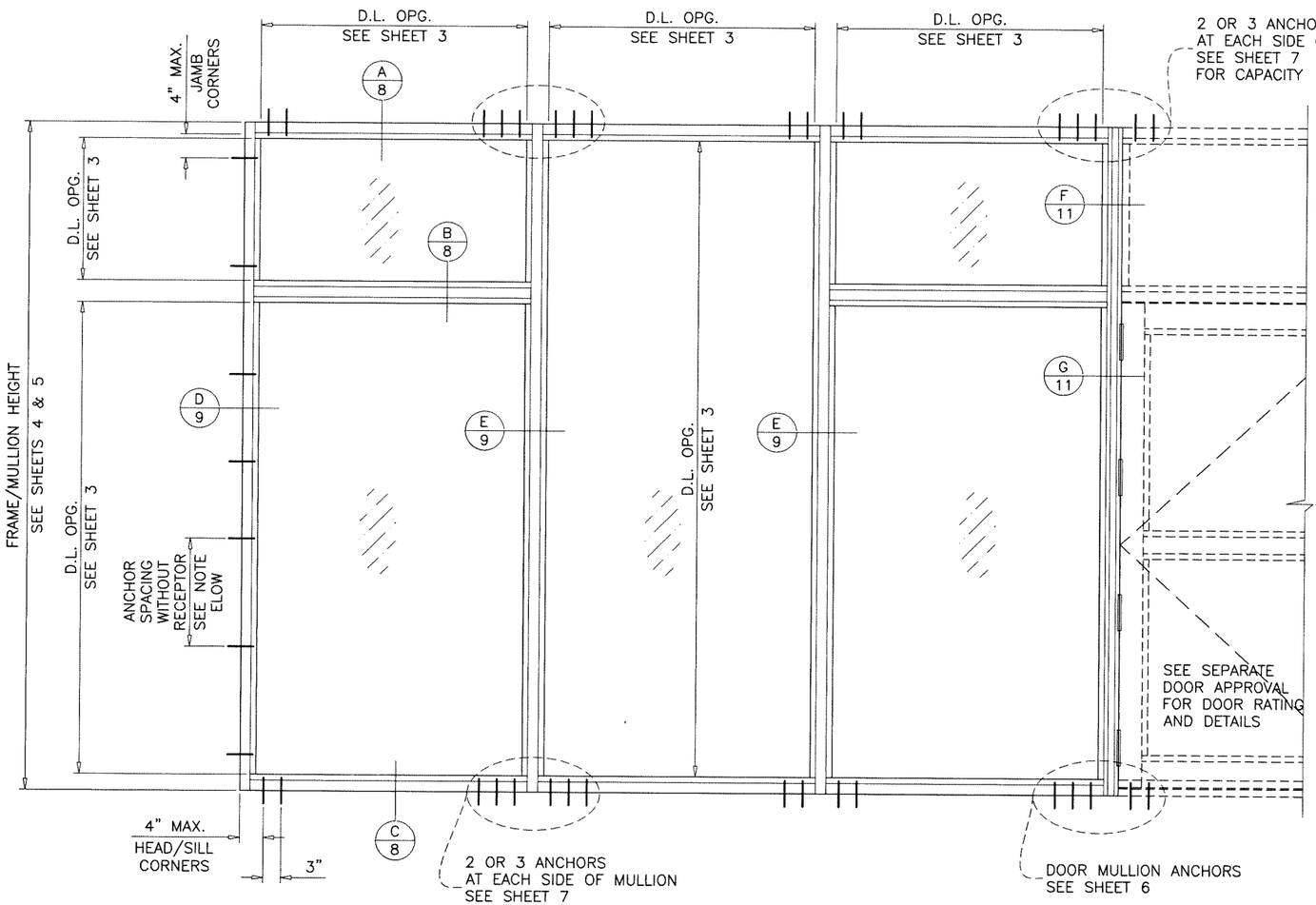
Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)					
TEST	**DESCRIPTION**	**TEST LOCATION**	**TEST REPORT DATE**	**TEST REPORT #**	**Test Sealed by**
FBC 1626.2 TAS 201 & 203 ASTME1886/1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc	10/23/2024 10/23/2024 10/23/2024 10/23/2024 10/23/2024 12/11/2024	HETI-24-8110 HETI-24-8160 HETI-24-8184 HETI-24-8215 HETI-24-8234 HETI-24-8252	Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E. Ram N. Tewari, P.E.

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq PE # 81223
Al-Farooq Corporation EB # 3538

Sealed: 12/20/2024



TYPICAL ELEVATIONS
WITHOUT RECEPTORS

MG–5500
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).

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

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

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

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 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.

JAMB ANCHOR SPACING:
15" MAX. FOR SHIM SPACE UPTO 1/4" (1/4" DIA. ANCHORS)

8" MAX. FOR SHIM SPACE 3/4" (5/16" DIA. ANCHORS ONLY)
THRU FRAME JAMB W/O RECEPTOR (SEE SHEET 10 FOR ANCHOR SPEC.)

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2 SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

STEP 3 CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 4 & 5 FOR STOREFRONT MULLION AND SHEET 6 FOR DOOR MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4 USING CHART ON SHEETS 7 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPROVED FRENCH DOORS.
LOWER DESIGN PRESSURE FROM WINDOW WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 1/6/2025

FL #47224

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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.

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

STORE\24–85F–MG

MG–5500 ALUMINUM WINDOW WALL SYSTEM (L.M.I.)

MR–GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764–3963 www.mrglasswindows.com

revisions:

no	date	by	description

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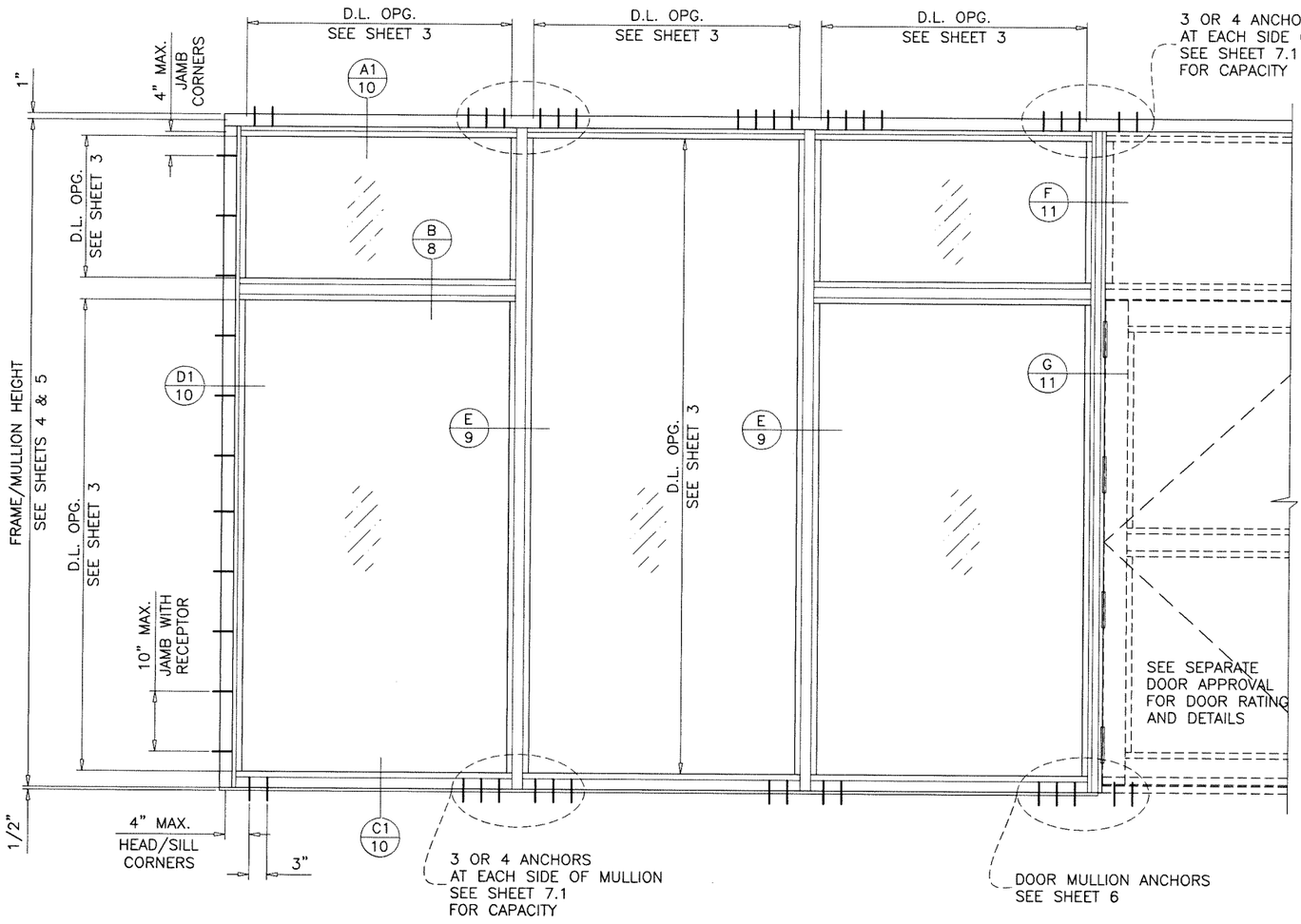
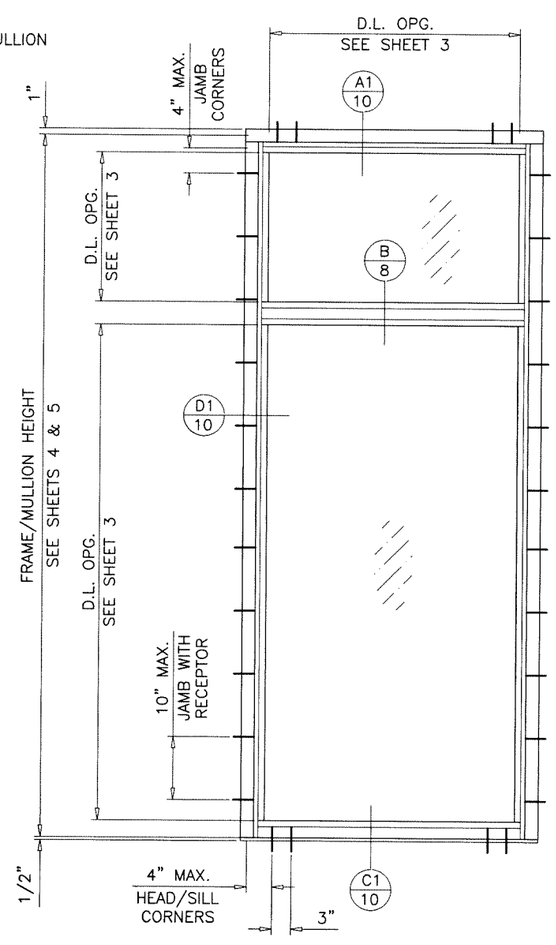
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. 24–85F

sheet 1 of 13





TYPICAL ELEVATIONS
WITH RECEPTORS

Sealed: 1/6/2025

JALAL FAROOQ
LICENSE
No. 81223
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL #47224

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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STORE\ 24-85F-MG

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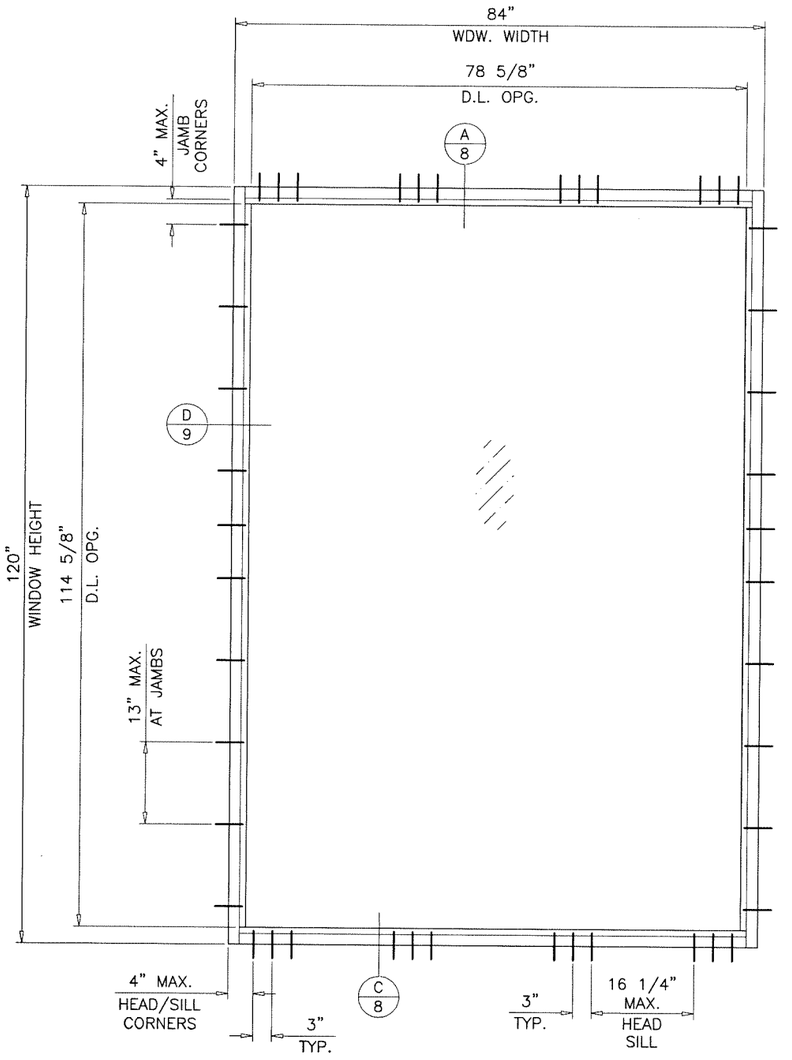
chk. by:

drawing no.
24-85F

sheet 2 of 13

STAND ALONE FIXED WINDOW DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		GLASS TYPE 'B'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(–)
54–5/8"	90–5/8"	70.0	70.0
60–5/8"		70.0	70.0
66–5/8"		70.0	70.0
72–5/8"		70.0	70.0
78–5/8"		70.0	70.0
84–5/8"		65.0	65.0
90–5/8"		60.7	60.7
94–5/8"		60.7	60.7
54–5/8"	102–5/8"	70.0	70.0
60–5/8"		70.0	70.0
66–5/8"		70.0	70.0
72–5/8"		70.0	70.0
78–5/8"		70.0	70.0
84–5/8"		65.0	65.0
54–5/8"	114–5/8"	70.0	70.0
60–5/8"		70.0	70.0
66–5/8"		70.0	70.0
72–5/8"		70.0	70.0
78–5/8"		70.0	70.0
54–5/8"	120–5/8"	70.0	70.0
60–5/8"		70.0	70.0
66–5/8"		70.0	70.0
72–5/8"		70.0	70.0
54–5/8"	132–5/8"	70.0	70.0
60–5/8"		70.0	70.0
66–5/8"		70.0	70.0
54–5/8"	138–5/8"	70.0	70.0
60–5/8"		70.0	70.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



TYPICAL ELEVATION
SINGLE (0) PANEL
TESTED UNIT

MG–5500 FIXED WINDOW

MAXIMUM DESIGN LOAD RATING = +70.0 PSF
–70.0 PSF

FOR WINDOW SIZES SHOWN ON THIS SHEET ONLY
LIMITED TO
GLASS TYPE 'B' ONLY
ANCHOR TYPES SHOWN ON SHEET 8 ONLY
1/2" MAX. SHIMS AT HEAD/SILL
3/8" MAX. SHIMS AT JAMBS

THESE FRAMES CAN BE USED AT ALL SUBSTRATES SHOWN ON SHEETS 8 AND 9.

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

Sealed: 1/6/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #47224

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revisions:			
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date: 11–27–24
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

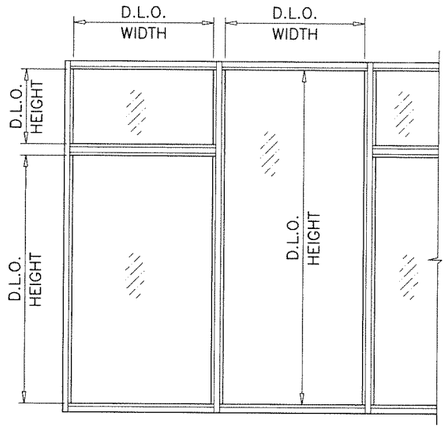
drawing no. 24–85F

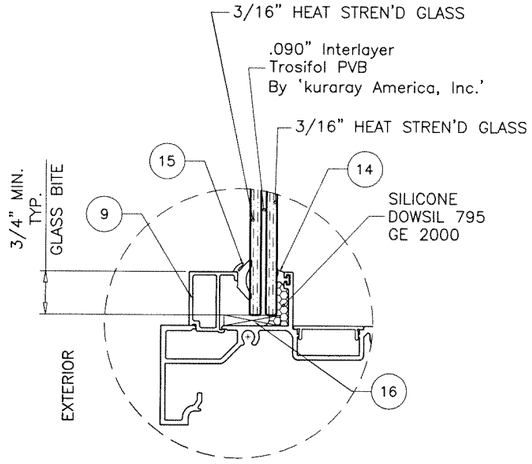
sheet 2.1 of 13

GLASS LOAD CAPACITY – PSF

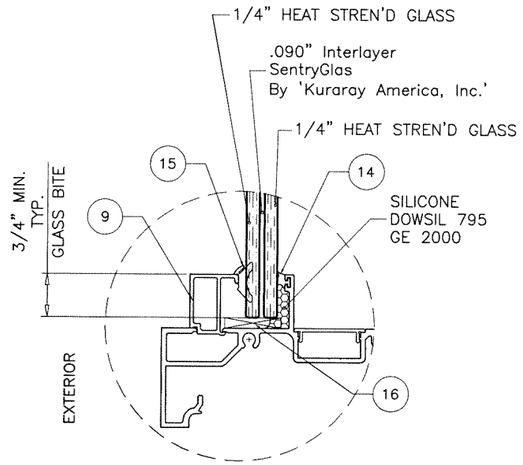
NOMINAL DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
28–3/8"	71–5/8"	75.0	75.0	70.0	70.0
32–3/8"		75.0	75.0	70.0	70.0
38–3/8"		75.0	75.0	70.0	70.0
44–3/8"		75.0	75.0	70.0	70.0
50–3/8"		66.1	66.1	70.0	70.0
54–3/8"		61.2	61.2	70.0	70.0
62–3/8"		53.4	53.4	70.0	70.0
28–3/8"	79–5/8"	75.0	75.0	70.0	70.0
32–3/8"		75.0	75.0	70.0	70.0
38–3/8"		75.0	75.0	70.0	70.0
44–3/8"		75.0	75.0	70.0	70.0
50–3/8"		66.1	66.1	70.0	70.0
54–3/8"		61.2	61.2	70.0	70.0
62–3/8"		–	–	70.0	70.0
28–3/8"	85–5/8"	75.0	75.0	70.0	70.0
32–3/8"		75.0	75.0	70.0	70.0
38–3/8"		75.0	75.0	70.0	70.0
44–3/8"		75.0	75.0	70.0	70.0
50–3/8"		66.1	66.1	70.0	70.0
54–3/8"		–	–	70.0	70.0
62–3/8"		–	–	70.0	70.0
28–3/8"	102–5/8"	75.0	75.0	70.0	70.0
32–3/8"		75.0	75.0	70.0	70.0
38–3/8"		75.0	75.0	70.0	70.0
44–3/8"		75.0	75.0	70.0	70.0
50–3/8"		–	–	70.0	70.0
54–3/8"		–	–	70.0	70.0
62–3/8"		–	–	70.0	70.0
28–3/8"	114–5/8"	–	–	70.0	70.0
32–3/8"		–	–	70.0	70.0
38–3/8"		–	–	70.0	70.0
44–3/8"		–	–	70.0	70.0
50–3/8"		–	–	70.0	70.0
54–3/8"		–	–	70.0	70.0
62–3/8"		–	–	70.0	70.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

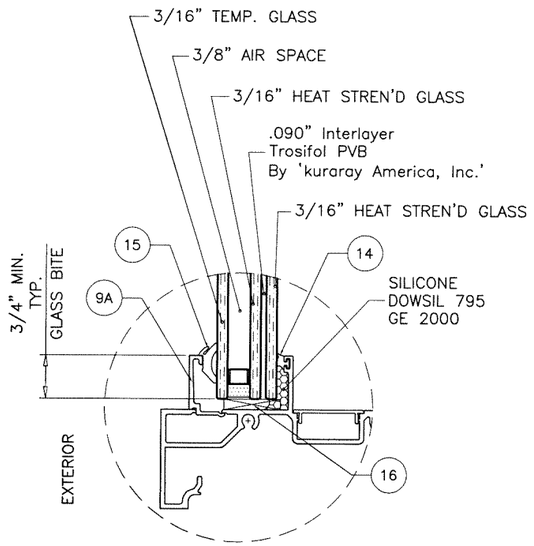




GLASS TYPE 'A'
7/16" INSUL. LAM. GLASS



GLASS TYPE 'B'
9/16" INSUL. LAM. GLASS



GLASS TYPE 'Ai'
1–1/16" INSUL. LAM. GLASS

GLASS

GLAZING OPTIONS

Sealed: 1/6/2025

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

FL #47224

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STORE\24-85F-MG

MG-5500 ALUMINUM WINDOW WALL SYSTEM (L.M.I.)

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revisions:		
no	date	by description

date: 11-27-24
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

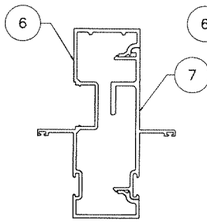
drawing no. 24–85F

sheet 3 of 13

MULLION LOAD CAPACITY – PSF
WITHOUT INTERMEDIATE HORIZONTALS

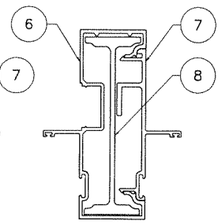
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M3'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(–)	EXT.(+)/INT.(–)	EXT.(+)/INT.(–)
30"	84"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		75.0	75.0	75.0
48"		75.0	75.0	75.0
54"		75.0	75.0	75.0
60"		75.0	75.0	75.0
66"		75.0	75.0	75.0
30"	90"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		75.0	75.0	75.0
48"		75.0	75.0	75.0
54"		71.6	75.0	75.0
60"		66.6	75.0	75.0
30"	96"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		75.0	75.0	75.0
48"		67.5	75.0	75.0
54"		61.5	75.0	75.0
60"		56.9	75.0	75.0
30"	102"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		66.1	75.0	75.0
48"		58.9	75.0	75.0
54"		53.4	75.0	75.0
30"	108"	75.0	75.0	75.0
36"		64.8	75.0	75.0
42"		56.5	75.0	75.0
48"		50.4	75.0	75.0
30"	114"	65.0	75.0	75.0
36"		54.8	75.0	75.0
42"		47.7	75.0	75.0
48"		42.5	75.0	75.0
30"	120"	55.6	75.0	75.0
36"		46.8	75.0	75.0
42"		40.7	75.0	75.0
48"		36.2	68.7	71.5

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



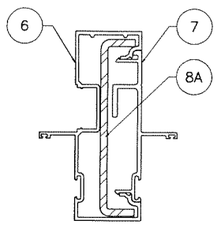
MULLION 'M1'

Ix IN^4	Sx IN^3
4.539	1.868



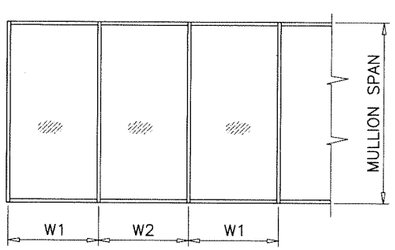
MULLION 'M2'

Ix IN^4	Sx IN^3
8.621	3.610



MULLION 'M3'

	Ix IN^4	Sx IN^3
ALUMINUM	4.539	1.868
STEEL	1.986	.846
TOTAL Ix ALUM + Ix STL X 2.9	10.289	



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

MULLIONS

Sealed: 1/6/2025

FL #47224

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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MG-5500 ALUMINUM WINDOW WALL SYSTEM (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 www.mrglasswindows.com

revisions:

no	date	by	description

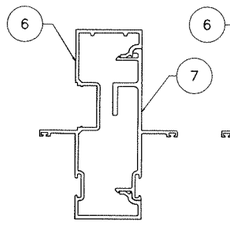
date: 11-27-24
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 24-85F

MULLION LOAD CAPACITY – PSF
WITH INTERMEDIATE HORIZONTALS

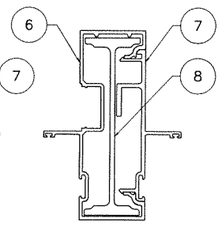
NOMINAL DIMS.		MULLION 'M1'	MULLION 'M2'	MULLION 'M3'
WIDTH (W)	FRAME HEIGHT	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)	EXT.(+)/INT.(−)
30"	84"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		75.0	75.0	75.0
48"		75.0	75.0	75.0
54"		72.9	75.0	75.0
60"		65.6	75.0	75.0
66"		59.6	75.0	75.0
30"	90"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		75.0	75.0	75.0
48"		71.0	75.0	75.0
54"		63.1	75.0	75.0
60"		56.8	75.0	75.0
30"	96"	75.0	75.0	75.0
36"		75.0	75.0	75.0
42"		70.9	75.0	75.0
48"		62.0	75.0	75.0
54"		55.1	75.0	75.0
60"		49.6	75.0	75.0
30"	102"	75.0	75.0	75.0
36"		72.8	75.0	75.0
42"		62.4	75.0	75.0
48"		54.6	75.0	75.0
54"		48.6	75.0	75.0
30"	108"	74.5	75.0	75.0
36"		62.1	75.0	75.0
42"		53.2	75.0	75.0
48"		46.6	75.0	75.0
30"	114"	63.4	75.0	75.0
36"		52.8	75.0	75.0
42"		45.3	75.0	75.0
48"		39.6	75.0	75.0
30"	120"	54.3	75.0	75.0
36"		45.3	75.0	75.0
42"		38.8	73.7	75.0
48"		34.0	64.5	67.8

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



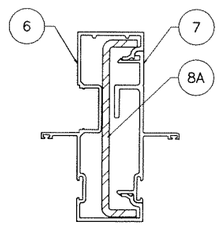
MULLION 'M1'

Ix IN^4	Sx IN^3
4.539	1.868



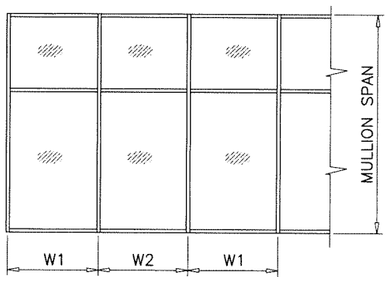
MULLION 'M2'

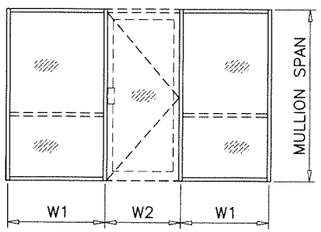
Ix IN^4	Sx IN^3
8.621	3.610

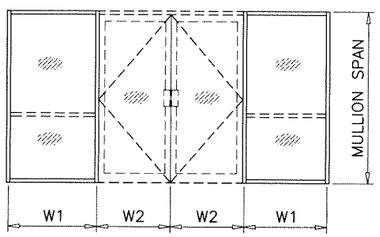


MULLION 'M3'

	Ix IN^4	Sx IN^3
ALUMINUM	4.539	1.868
STEEL	1.986	.846
TOTAL Ix ALUM + Ix STL X 2.9	10.289	







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

MULLIONS

Sealed: 1/6/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #47224

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revisions:

no	date	by	description

date: 11-27-24
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dr. by: TARIQ
chk. by:

drawing no. 24-85F

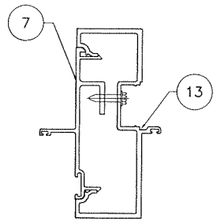
sheet 5 of 13

DOOR MULLION LOAD CAPACITY – PSF

NOMINAL DIMS.				MULLION 'DM1'	MULLION 'DM2'	MULLION 'DM3'
WIDTH (W1) INCHES	DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
40–5/8 (X) 80–7/8 (XX)	84	102	30	56.8	75.0	75.0
			36	53.4	75.0	75.0
			42	50.4	75.0	75.0
			48	47.7	75.0	75.0
			54	45.3	75.0	75.0
		108	36	45.6	75.0	75.0
			42	43.1	75.0	72.7
			48	40.9	74.5	69.0
		114	30	42.0	75.0	70.8
			36	39.6	72.2	66.9
			42	37.4	68.4	63.3
			48	35.3	64.9	60.2
		120	30	35.0	66.5	62.3
			36	32.9	62.5	58.9
			42	31.0	58.9	55.9
			48	29.4	55.8	53.1
		144	30	35.0	35.5	41.2
			36	32.9	33.5	39.0
			42	31.0	31.8	37.1
			48	29.4	30.2	35.4
40–5/8 (X) 80–7/8 (XX)	90	102	30	60.8	75.0	75.0
			36	56.9	75.0	75.0
			42	53.5	75.0	75.0
			48	50.4	75.0	75.0
			54	47.7	75.0	75.0
		108	36	47.9	75.0	75.0
			42	45.1	75.0	75.0
			48	42.7	75.0	72.4
		114	30	43.7	75.0	74.1
			36	41.1	74.6	69.8
			42	38.9	70.5	65.9
			48	36.8	66.9	62.5
		120	30	36.9	69.1	64.6
			36	34.5	65.2	60.9
			42	32.5	61.6	57.7
			48	30.6	58.2	54.8
		144	30	36.9	36.3	41.7
			36	34.5	34.2	39.5
			42	32.5	32.4	37.5
			48	30.6	30.7	35.8
40–5/8 (X) 80–7/8 (XX)	96	108	36	50.9	75.0	75.0
			42	47.8	75.0	75.0
			48	45.1	75.0	75.0
		114	30	45.9	75.0	75.0
			36	43.1	75.0	73.6
			42	40.6	73.6	69.3
			48	38.4	69.6	65.6
		120	30	39.0	71.7	67.5
			36	36.4	67.5	63.6
			42	34.1	63.7	60.1
			48	32.1	60.4	56.9
		144	30	39.0	37.4	42.5
			36	36.4	35.2	40.2
			42	34.1	33.2	38.2
			48	32.1	31.5	36.3

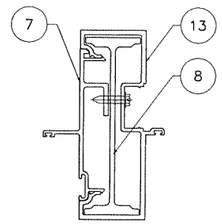
DOOR MULLION LOAD CAPACITY – PSF

NOMINAL DIMS.				MULLION 'DM1'	MULLION 'DM2'	MULLION 'DM3'
WIDTH (W1) INCHES	DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W2) INCHES	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)
40–5/8 (X) 80–7/8 (XX)	102	114	30	49.0	75.0	75.0
			36	45.8	75.0	75.0
			42	43.0	75.0	73.8
			48	40.5	73.2	69.5
		120	30	41.4	75.0	71.4
			36	38.5	70.5	67.0
			42	36.0	66.4	63.1
			48	33.7	62.8	59.6
		144	30	20.4	38.8	43.5
			36	19.2	36.4	41.1
			42	18.1	34.3	39.0
			48	17.1	32.5	37.1
40–5/8 (X) 80–7/8 (XX)	108	114	30	53.1	75.0	75.0
			36	49.0	75.0	75.0
			42	45.5	75.0	75.0
			48	42.5	75.0	74.7
		120	30	43.8	75.0	75.0
			36	40.5	74.6	71.5
			42	37.7	70.0	67.1
			48	35.3	65.9	63.2
		144	30	21.3	40.5	44.8
			36	20.0	37.9	42.3
			42	18.8	35.7	40.1
			48	17.7	33.7	38.0



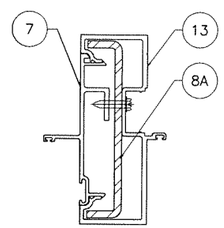
MULLION 'DM1'

Ix IN^4	Sx IN^3
4.539	1.868



MULLION 'DM2'

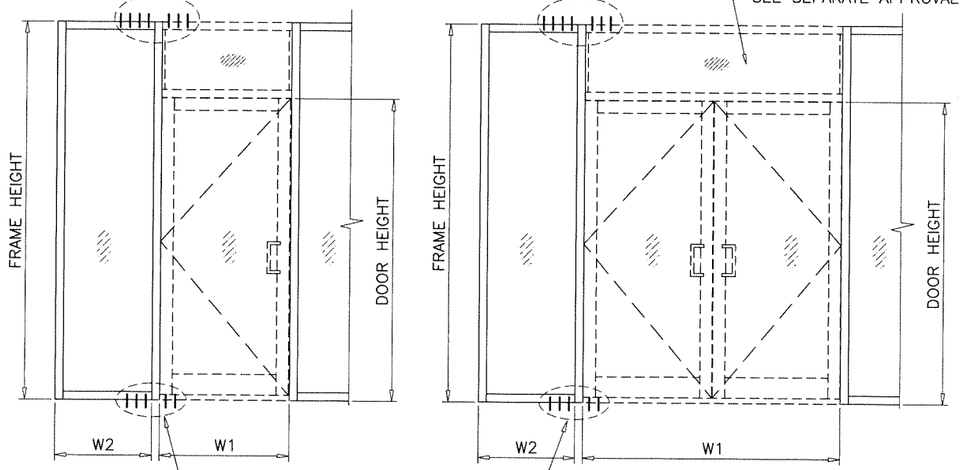
Ix IN^4	Sx IN^3
8.621	3.610



MULLION 'DM3'

	Ix IN^4	Sx IN^3
ALUMINUM	4.539	1.868
STEEL	1.986	.846
TOTAL Ix ALUM + Ix STL X 2.9	10.829	

ANCHOR TYPES	TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD
A	7
B	6
C	5



ANCHOR TYPE	TOTAL NO. OF ANCHORS AT DOOR MULLION SILL
B	4

Sealed: 1/6/2025

DOOR MULLION

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revisions:

no	date	by	description

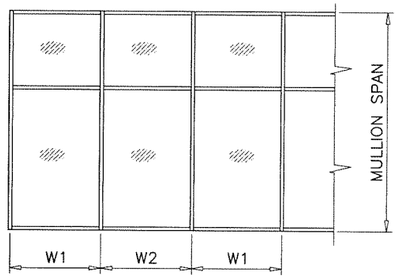
date: 11-27-24
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

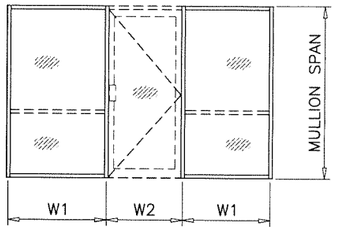
drawing no. 24-85F

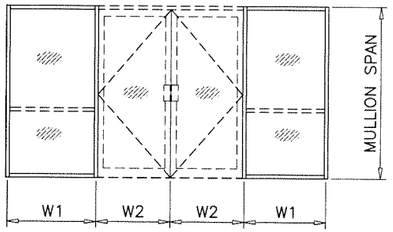
HEAD/SILL ANCHOR LOAD CAPACITY – PSF (WITHOUT RECEPTOR)

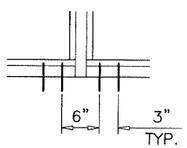
EXT.(+) & INT.(–)

NOMINAL DIMS.		ANCHOR TYPES 'A' & 'B'		ANCHOR TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A2/B2	A3/B3	C2	C3
30"	84"	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0
42"		75.0	75.0	75.0	75.0
48"		74.0	75.0	75.0	75.0
54"		65.8	75.0	75.0	75.0
60"		59.2	75.0	75.0	75.0
66"		53.8	75.0	72.1	75.0
30"	90"	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0
42"		75.0	75.0	75.0	75.0
48"		69.1	75.0	75.0	75.0
54"		61.4	75.0	75.0	75.0
60"		55.3	75.0	74.0	75.0
30"	96"	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0
42"		74.0	75.0	75.0	75.0
48"		64.8	75.0	75.0	75.0
54"		57.6	75.0	75.0	75.0
60"		51.8	75.0	69.4	75.0
30"	102"	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0
42"		69.6	75.0	75.0	75.0
48"		60.9	75.0	75.0	75.0
54"		54.2	75.0	72.6	75.0
30"	108"	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0
42"		65.8	75.0	75.0	75.0
48"		57.6	75.0	75.0	75.0
30"	114"	75.0	75.0	75.0	75.0
36"		72.7	75.0	75.0	75.0
42"		62.3	75.0	75.0	75.0
48"		54.5	75.0	73.1	75.0
30"	120"	75.0	75.0	75.0	75.0
36"		69.1	75.0	75.0	75.0
42"		59.2	75.0	75.0	75.0
48"		51.8	75.0	69.4	75.0

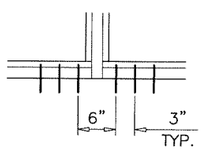








A2, B2, C2



A3, B3, C3

ANCHORS TYPES: SEE SHEET 8 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

ANCHORS

Sealed: 1/6/2025

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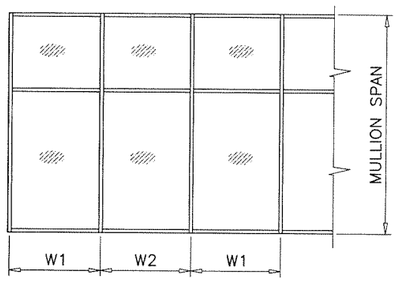
dr. by: TARIQ
chk. by:

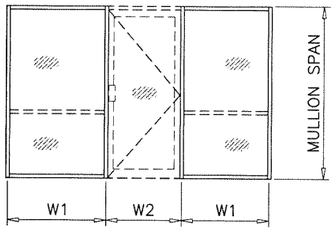
drawing no. 24-85F

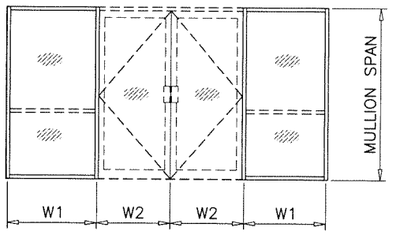
sheet 7 of 13

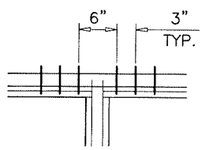
HEAD/SILL ANCHOR LOAD CAPACITY – PSF
(WITH RECEPTOR)
EXT.(+) & INT.(–)

NOMINAL DIMS.		ANCHOR TYPE 'AA' & 'BB'			ANCHOR TYPE 'CC'	
WIDTH (W)	FRAME HEIGHT	AA3/BB3	AA4/BB4	AA5/BB5	CC3	CC4
30"	84"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		75.0	75.0	75.0	75.0	75.0
48"		75.0	75.0	75.0	75.0	75.0
54"		68.8	75.0	75.0	75.0	75.0
60"		61.9	75.0	75.0	75.0	75.0
66"		56.3	75.0	75.0	72.9	75.0
30"	90"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		75.0	75.0	75.0	75.0	75.0
48"		72.2	75.0	75.0	75.0	75.0
54"		64.2	75.0	75.0	75.0	75.0
60"		57.8	75.0	75.0	74.8	75.0
30"	96"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		75.0	75.0	75.0	75.0	75.0
48"		67.7	75.0	75.0	75.0	75.0
54"		60.2	75.0	75.0	75.0	75.0
60"		54.2	72.2	75.0	70.2	75.0
30"	102"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		72.8	75.0	75.0	75.0	75.0
48"		63.7	75.0	75.0	75.0	75.0
54"		56.6	75.0	75.0	73.4	75.0
30"	108"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		68.8	75.0	75.0	75.0	75.0
48"		60.2	75.0	75.0	75.0	75.0
30"	114"	75.0	75.0	75.0	75.0	75.0
36"		75.0	75.0	75.0	75.0	75.0
42"		65.2	75.0	75.0	75.0	75.0
48"		57.0	75.0	75.0	73.9	75.0
30"	120"	75.0	75.0	75.0	75.0	75.0
36"		72.2	75.0	75.0	75.0	75.0
42"		61.9	75.0	75.0	75.0	75.0
48"		54.2	72.2	75.0	70.2	75.0

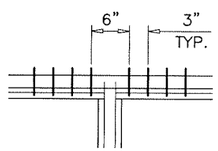








AA3, BB3, CC3



AA4, BB4, CC4

ANCHORS TYPES: SEE SHEET 10 FOR DESCRIPTION

AA3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION
AA4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION

BB3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION
BB4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION

CC3 = (3) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION
CC4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.

ANCHORS

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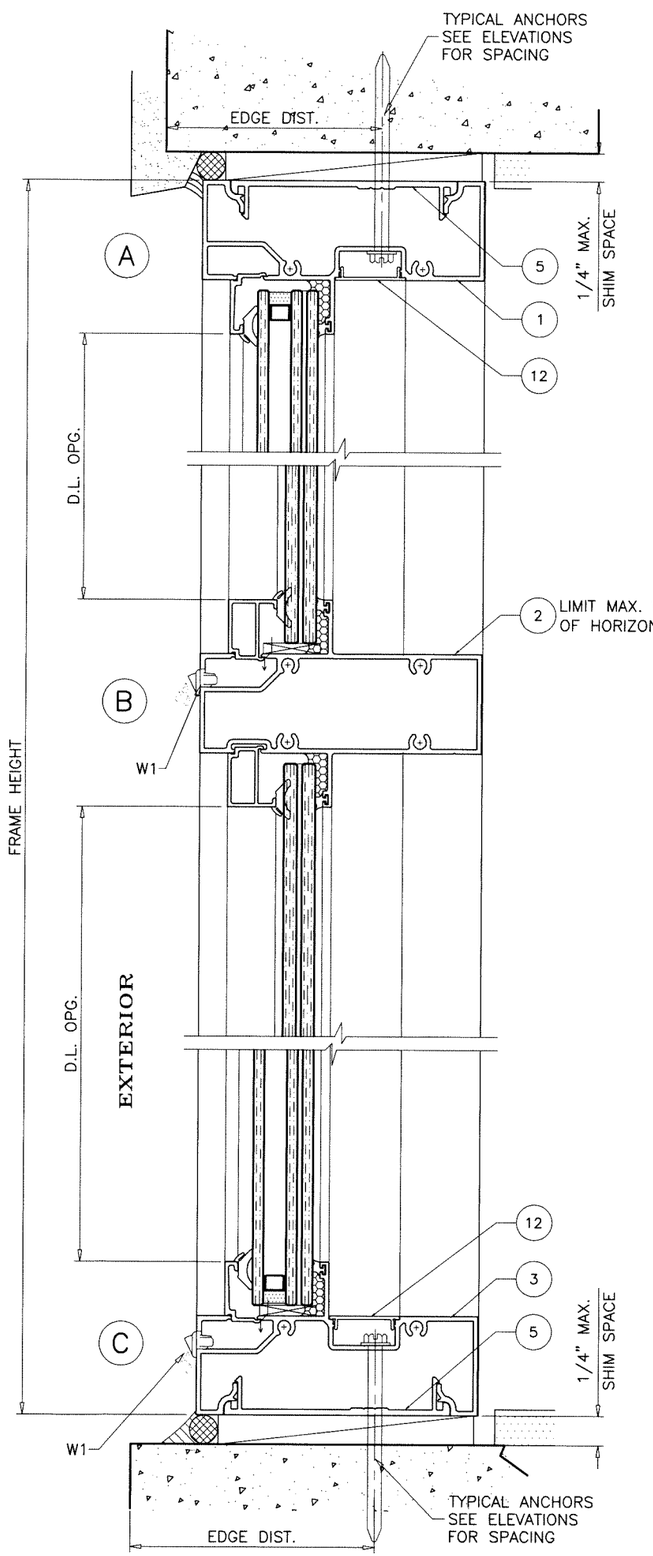

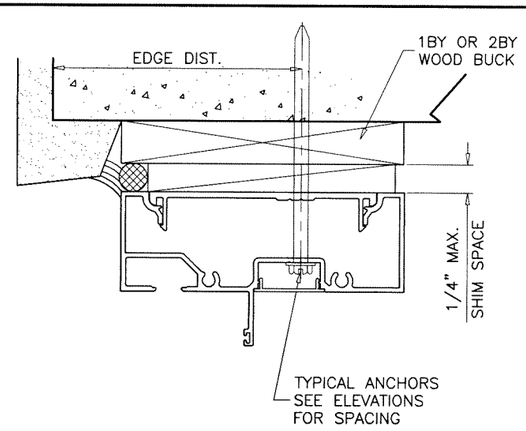

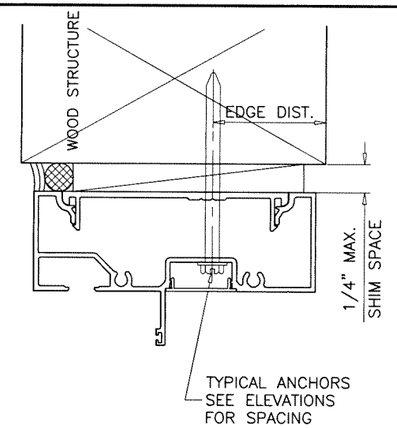

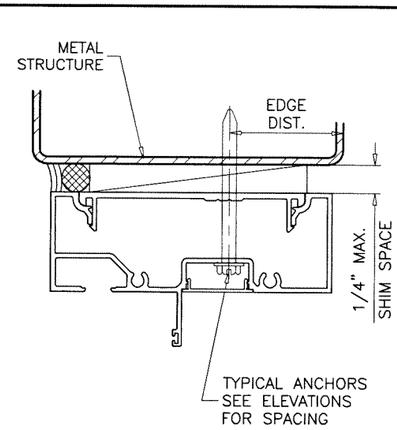

WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS W/O RECEPTORS: SEE ELEV. FOR SPACING

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

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

TYPE 'B'– **1/4" DIA. ULTRACON BY 'DEWALT'** (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

TYPE 'C'– **1/4" DIA. SMS OR SELF-DRILLING SCREWS** (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 3/4" MIN.

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

WEEPHOLES:

W1 = 5/16" X 1-3/4" LONG WEEP SLOTS WITH PLASTIC BAFFLE
(2) PER LITE AT 3-1/2" FROM EACH END.

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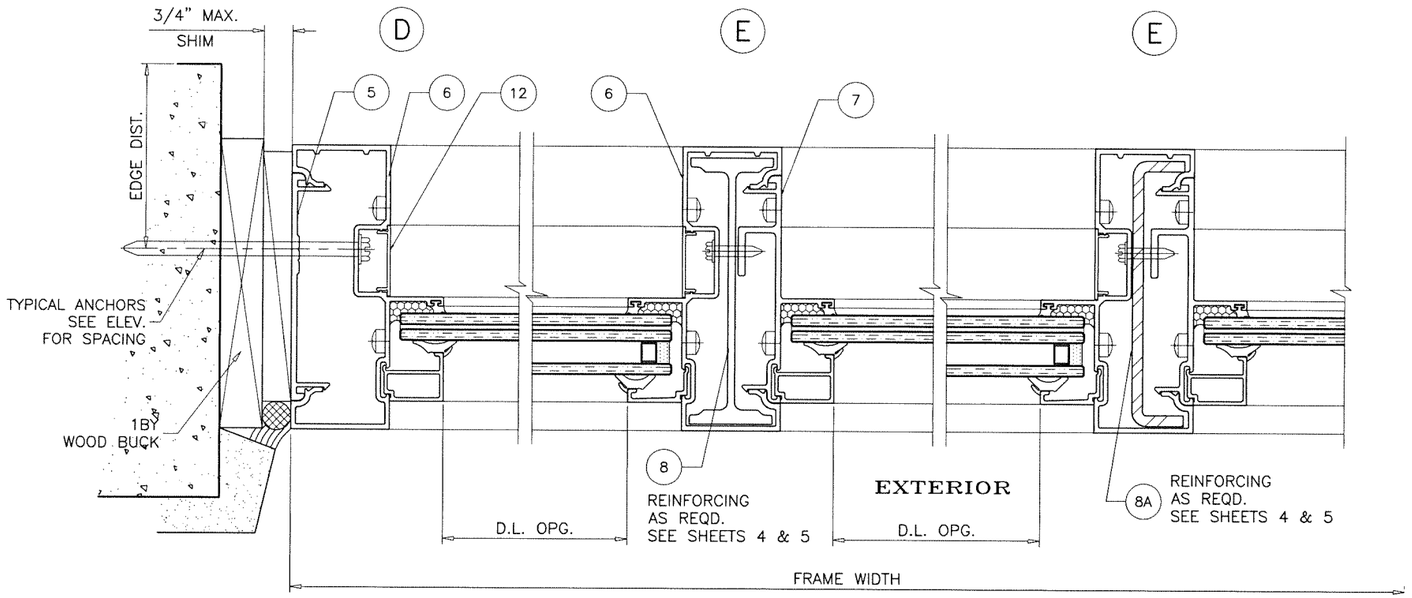

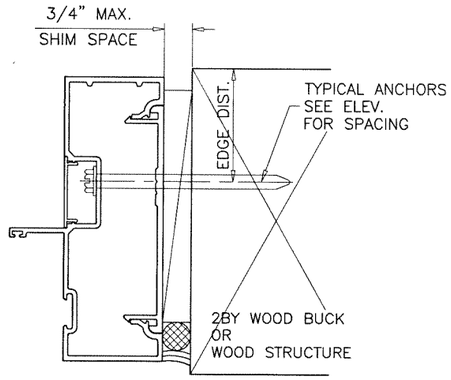

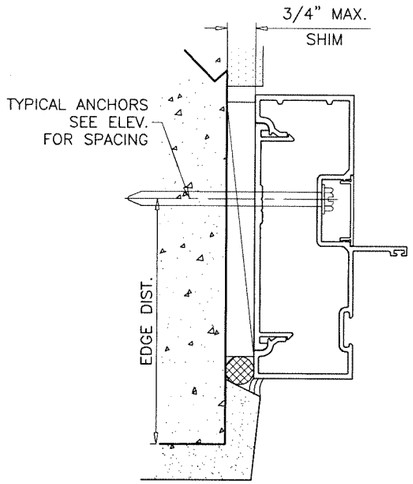

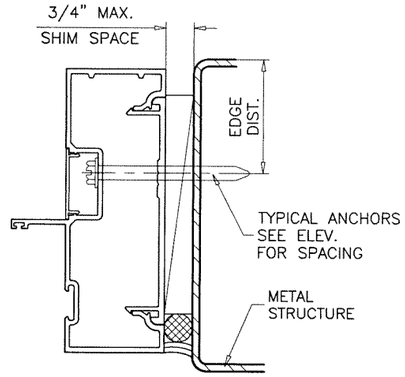

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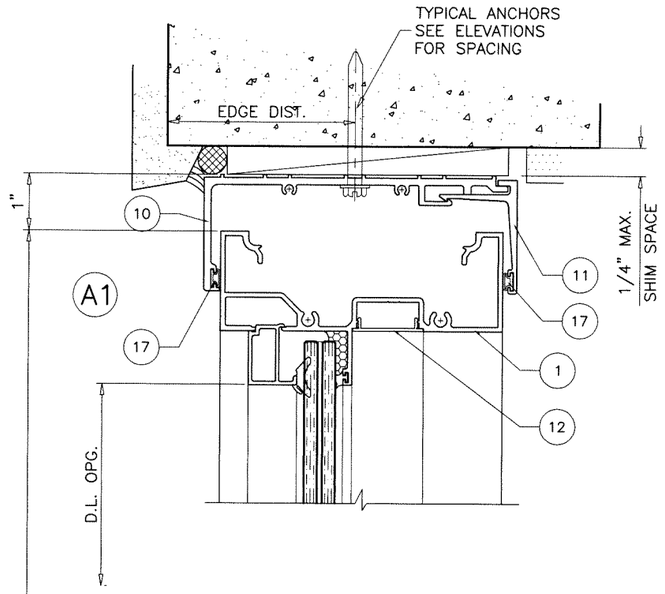
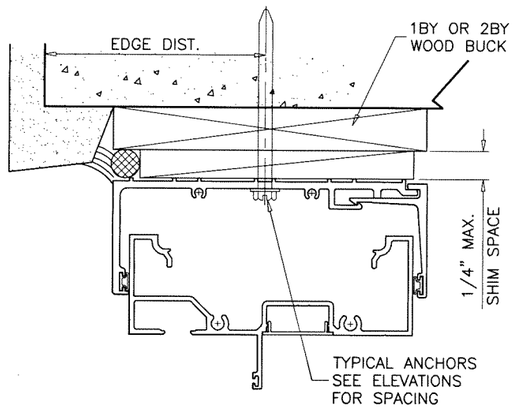
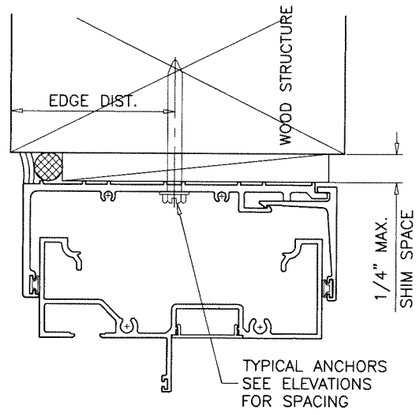
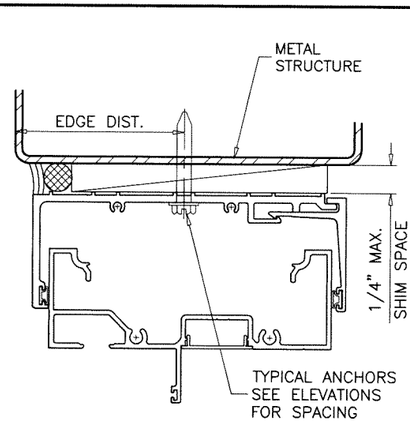








WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

NOTE:
SEALANT APPLICATION AT HEAD AND JAMB RECEPTORS TO BE DETERMINED ON CASE BY CASE PROJECT DEPENDING ON THE APPLICATION.

TYPICAL ANCHORS WITH RECEPTORS: SEE ELEV. FOR SPACING

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

ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.

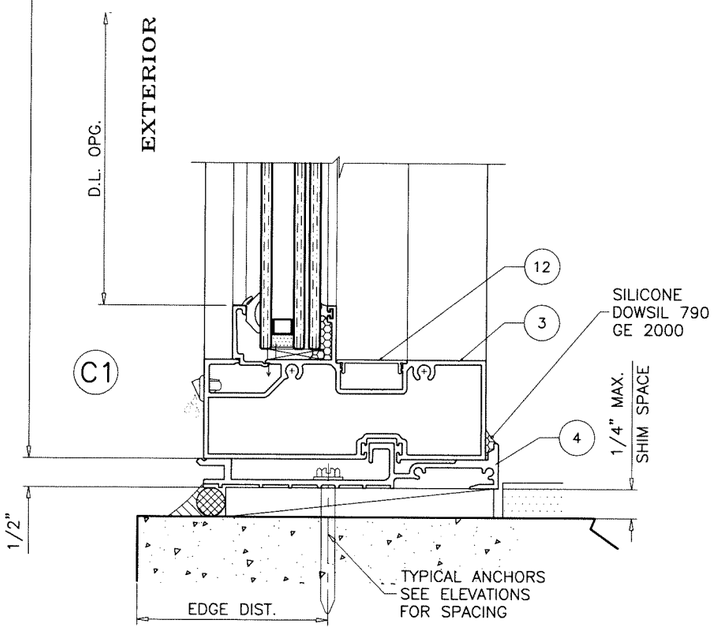
TYPE 'BB'– 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

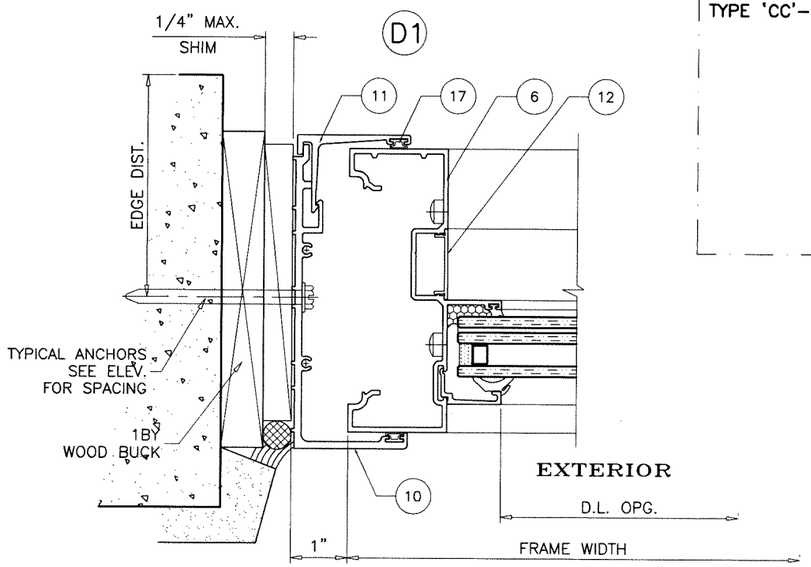
ANCHOR EDGE DISTANCES
INTO CONCRETE AND BLOCKS = 3-1/8" MIN.

TYPE 'CC'– 5/16" DIA. SMS OR SELF-DRILLING SCREWS (GRADE 2 CRS)
INTO F.B.C. APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO METAL STRUCTURE = 3/4" MIN.

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





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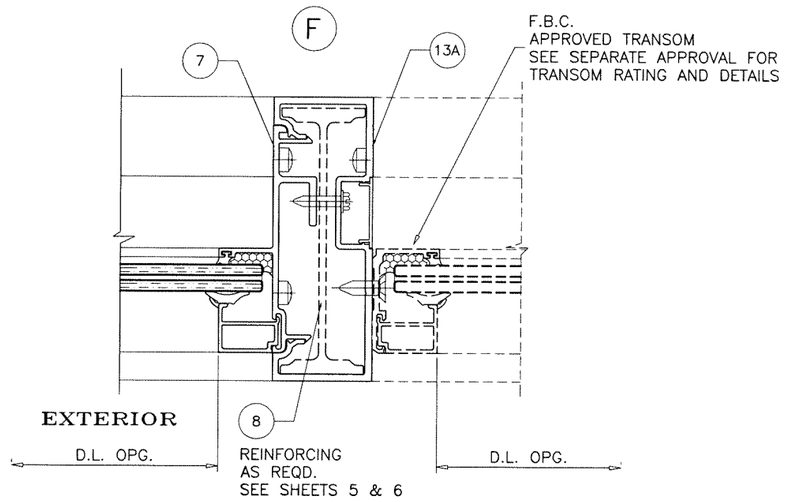

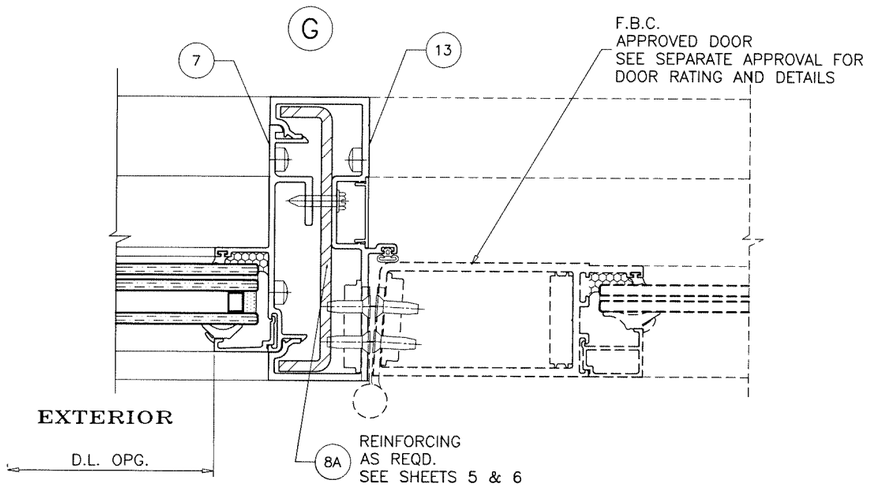

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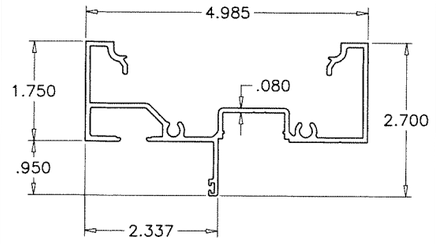
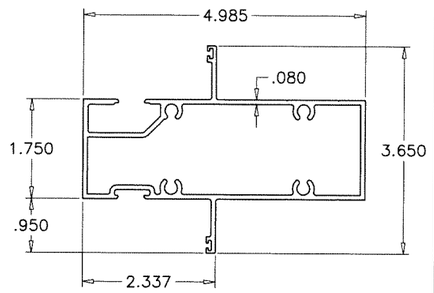


1 FRAME HEAD/SILL
5504



2 INTERMEDIATE HORIZONTAL
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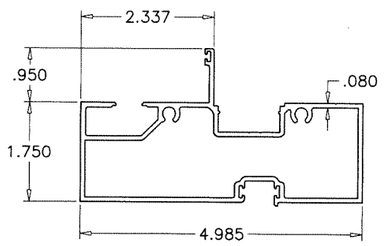

3 FRAME SILL
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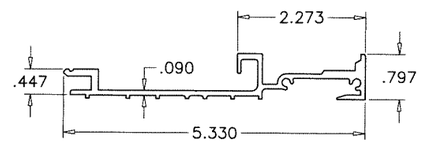

4 SILL PAN
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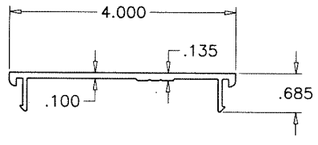

5 SNAP COVER
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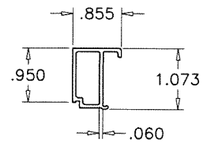
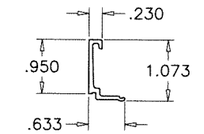


9 GLASS STOP
9001

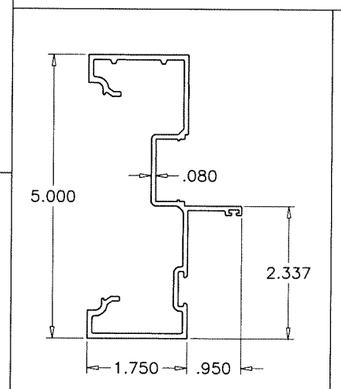


9A GLASS STOP
9002

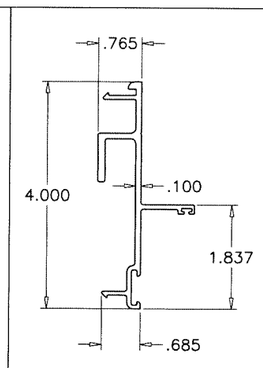
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	5504	–	FRAME HEAD/SILL	6063–T6	–
2	5505	–	INTERMEDIATE HORIZONTAL	6063–T6	–
3	5506	–	FRAME SILL	6063–T6	–
4	5509	–	SILL PAN	6063–T6	–
5	5508	–	SNAP COVER	6063–T6	–
6	5501	–	JAMB/MULLION	6063–T6	–
7	5503	–	MULLION SNAP	6063–T6	–
8	5513	–	MULLION REINFORCING	6063–T6	–
8A	–	–	MULLION REINFORCING	STEEL	A36, Fu MIN. = 58 KSI
9	9001	–	GLASS STOP (LAM. GLASS)	6063–T6	–
9A	9002	–	GLASS STOP (INSUL. LAM. GLASS)	6063–T6	–
10	5510	–	HEAD/JAMB RECEPTOR (EXTERIOR)	6063–T6	–
11	5511	–	HEAD/JAMB RECEPTOR (INTERIOR)	6063–T6	–
12	5512	–	FRAME COVER	6063–T6	–
13 & 13A	5521	–	DOOR MULLION	6063–T6	–
14	G30–01	AS REQD.	INTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
15	G10–04	AS REQD.	EXTERIOR GLAZING GASKET	EPDM	DUROMETER 70±5 SHORE A
16	–	2/ LITE	SETTING BLOCK, 1/8" X 1" X 4" LONG, AT 3" FROM EACH END	EPDM	DUROMETER 80±5 SHORE A
17	G60–03	AS REQD.	RECEPTOR GASKET	EPDM	DUROMETER 70±5 SHORE A
18	1/4–20 X 2"	2/ CORNER	ASSEMBLY SCREWS (PH SELF DRILLING TYPE F)	–	GRADE 4 CRS, Fu=92 KSI, FY=120 KSI
19	–	AS REQD.	DRAIN VALVE	PVC	–
20	–	–	–	–	–

SEALANTS:

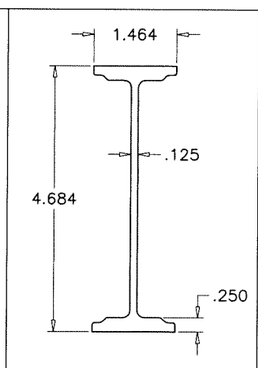
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF GLAZING BEAD TO FRAME TO BE SEALED WITH GE 2000 SILICONE.



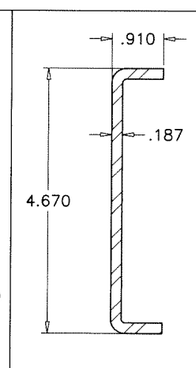
6 JAMB/MULLION
5501



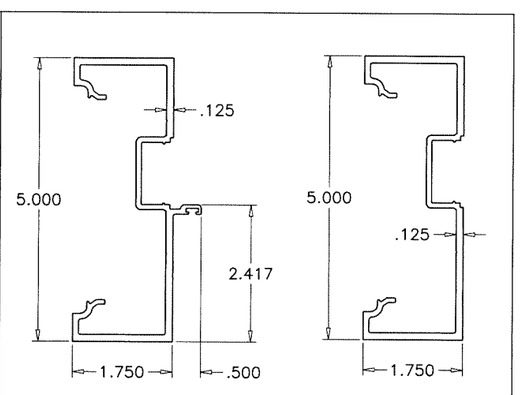
7 MULLION SNAP
5503



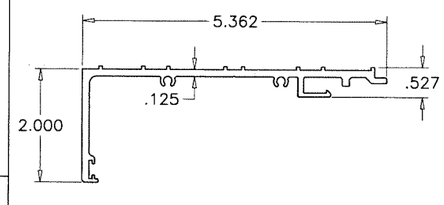
8 MULLION REINF.
5513



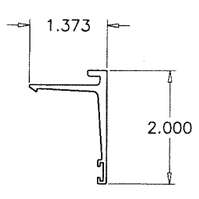
8A MULLION REINF.
–



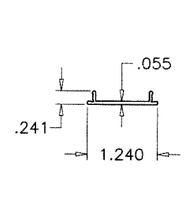
13 DOOR MULLION
5521 13A



10 HEAD/JAMB RECEPTOR (EXT.)
5510



11 HEAD/JAMB RECEPTOR (INT.)
5511



12 FRAME COVER
5512

Sealed: 1/6/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #47224

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

STORE\24-85F-MG

MG-5500 ALUMINUM WINDOW WALL SYSTEM (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 www.mrglasswindows.com

revisions:

no	date	by	description

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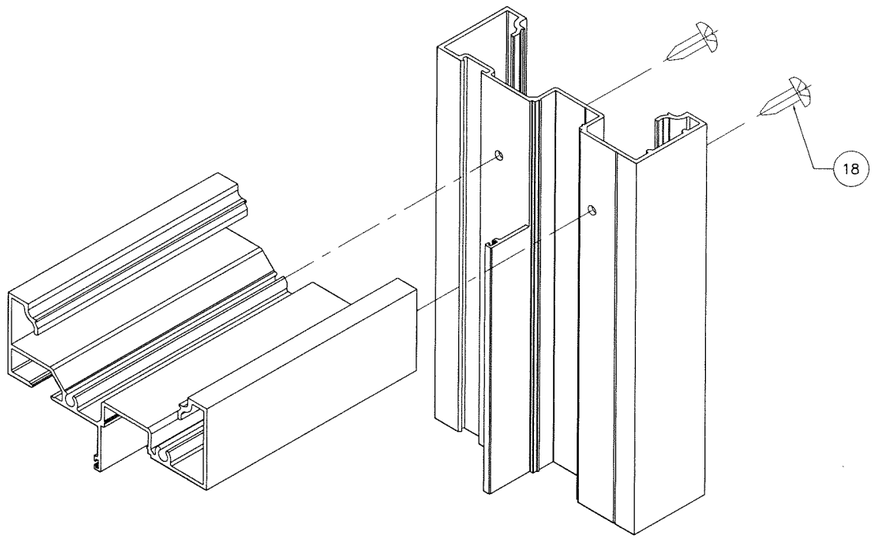
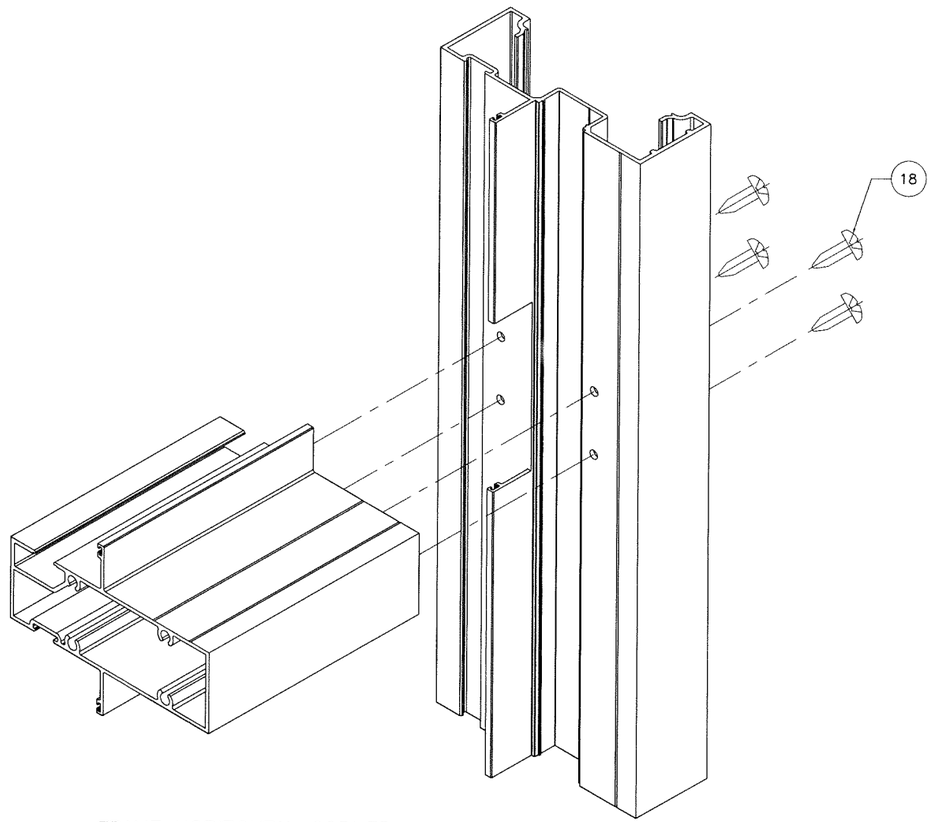
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 24–85F

sheet 12 of 13



FRAME TOP/BOTTOM CORNER



FRAME HORIZONTAL CORNER

Sealed: 1/6/2025

FL #47224

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sheet 13 of 13