Product Approval
USER: Public User

FL #	FL26942-R6
Application Type	Revision
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	Exterior Doors
Subcategory	Swinging Exterior Door Assemblies
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	04/14/2035
Validated By	Abel Carrasco, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL26942_R6_COI_SS - Certificate of Independence 2023.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM E1886	2013
ASTM E1996	2014
TAS-201	1994
TAS-202	1994
TAS-203	1994

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	06/11/2025
Date Validated	06/16/2025
Date Pending FBC Approval	06/17/2025
Date Approved	08/12/2025

Summary of Products

FL #	**Model, Number or Name**	**Description**
26942.1	Series 3000 Aluminum Outswing Entrance Door	Large missile impact resistant aluminum outswing entrance door.
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +80/-80 **Other:** See drawing 18-36F for span vs load combinations and installation details.		**Installation Instructions** FL26942_R6_II_SS - MG 3000 Alum OS Door (LMI) - DWG 18-36F 2023 R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes **Evaluation Reports** FL26942_R6_AE_SS - MG 3000 Alum OS Door (LMI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes
26942.2	Series MG3500 Residential Outswing Entry Door	Large missile impact resistant aluminum outswing entrance door
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** Yes **Design Pressure:** +80/-80 **Other:** See drawing 23-29F for span vs load combinations and installation details		**Installation Instructions** FL26942_R6_II_SS - MG 3500 Resd Entry Door (LMI) - DWG 23-29F 2023 R1.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes **Evaluation Reports** FL26942_R6_AE_SS - MG 3500 Resd Entry Door (LMI) - PAE 2023 R1.pdf Created by Independent Third Party: Yes

Back Next

AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

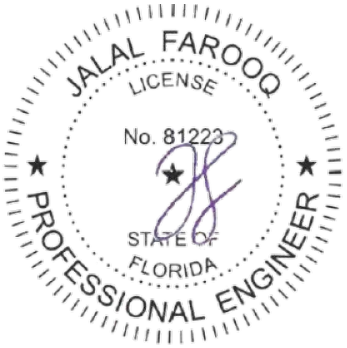
January 23, 2023

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 26942
Date: 6/2/2025

Detailed Product Description:
Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC.
Manufacturer Address: 8051 NW 79th PLACE, MEDLEY, FL 33166
Model Name: SERIES 3000 ALUMINUM OUTSWING ENTRANCE DOOR
Maximum Load: +80 PSF, -80 PSF (Large Missile Impact)
Installation Drawings # 18-36F

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 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	2/13/2018	HETI-18-6004	Rafael E. Droz-Seda, P.E.
			2/13/2018	HETI-18-6011	
			10/29/2021	HETI-21-7089	Ram N. Tewari, P.E.
			3/13/2023	HETI-23-8014	
			3/13/2023	HETI-23-8016	
			5/26/2023	HETI-23-8024	
			10/23/2024	HETI-24-8202	
			11/20/2024	HETI-24-8243	
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc	2/13/2018	HETI-18-6002	Rafael E. Droz-Seda, P.E.
			2/13/2018	HETI-18-6004	
			2/13/2018	HETI-18-6011	
			10/29/2021	HETI-21-7089	Ram N. Tewari, P.E.
			3/13/2023	HETI-23-8014	
			3/13/2023	HETI-23-8016	
			5/26/2023	HETI-23-8024	
			10/23/2024	HETI-24-8202	
			11/20/2024	HETI-24-8243	
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc	2/13/2018	HETI-18-6001	Rafael E. Droz-Seda, P.E.
			2/13/2018	HETI-18-6002	
			2/13/2018	HETI-18-6004	
			2/13/2018	HETI-18-6011	
			10/29/2021	HETI-21-7089	Ram N. Tewari, P.E.
			10/19/2021	HETI-21-7086	
			3/13/2023	HETI-23-8014	
			3/13/2023	HETI-23-8016	
			5/26/2023	HETI-23-8024	
			10/23/2024	HETI-24-8202	
			11/20/2024	HETI-24-8243	

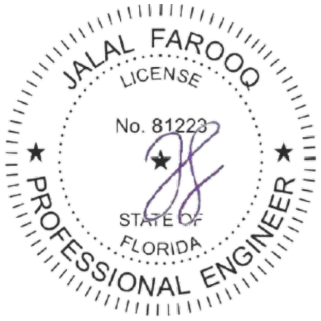
AAMA 1304	Forced Entry Test	Hurricane Engineering & Testing, Inc	2/13/2018	HETI-18-6001	Rafael E. Droz-Seda, P.E.
			2/13/2018	HETI-18-6002	
			2/13/2018	HETI-18-6004	
			2/13/2018	HETI-18-6011	
			10/29/2021	HETI-21-7089	Ram N. Tewari, P.E.
			10/19/2021	HETI-21-7086	
			3/13/2023	HETI-23-8014	
			3/13/2023	HETI-23-8016	
			5/26/2023	HETI-23-8024	
			10/23/2024	HETI-24-8202	
			11/20/2024	HETI-24-8243	

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) ASTM E1886 & E1996	Large Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc	2/13/2018	HETI-18-6003	Rafael E. Droz-Seda, P.E.
			2/13/2018	HETI-18-6005	
			2/13/2018	HETI-18-6012	
			10/19/2021	HETI-21-7086	Ram N. Tewari, P.E.
			10/29/2021	HETI-21-7089	
			3/13/2023	HETI-23-8014	
			3/13/2023	HETI-23-8016	
			5/26/2023	HETI-23-8024	
			10/23/2024	HETI-24-8202	
			11/20/2024	HETI-24-8243	

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: 6/4/2025

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

SERIES 3000
ALUMINUM OUTSWING ENTRANCE DOOR

SINGLE (X) AND DOUBLE (XX) LEAF DOORS SEE SHEET 2.

STAND ALONE SINGLE SIDELITE SEE SHEET 3.

SINGLE AND DOUBLE LEAF DOORS WITH SIDELITES COMBINATIONS SEE SHEET 4.

LOWER VALUES FROM DOOR CAPACITY, SIDELITE CAPACITY OR MULLION CAPACITY WILL APPLY TO ENTIRE SYSTEM.

DOORS APPROVED FOR INSTALLATION WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

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.

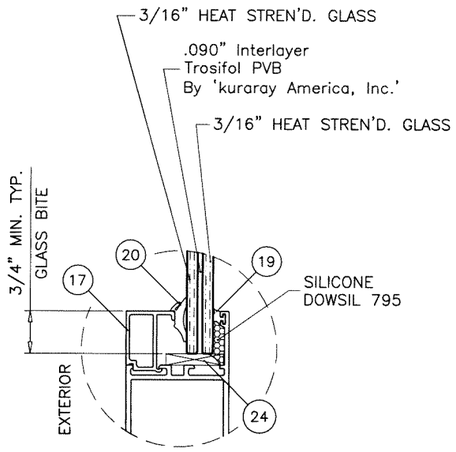
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

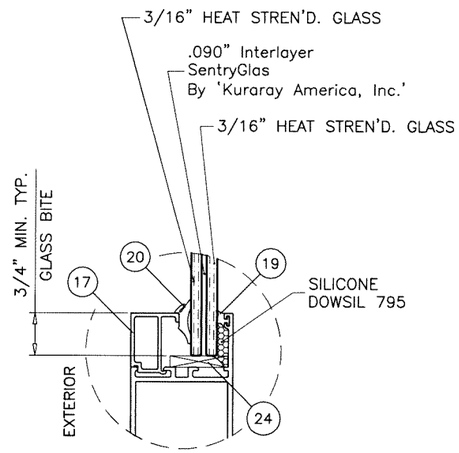
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, 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.



GLASS TYPE 'A'



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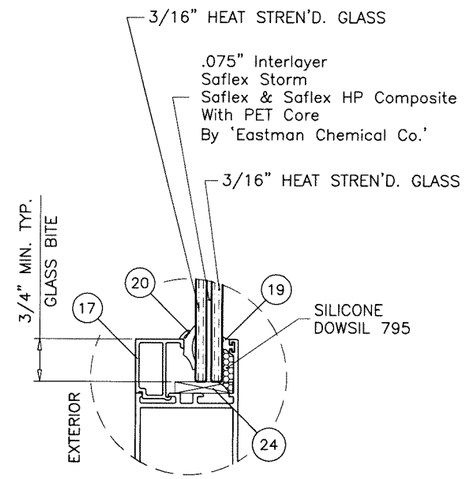

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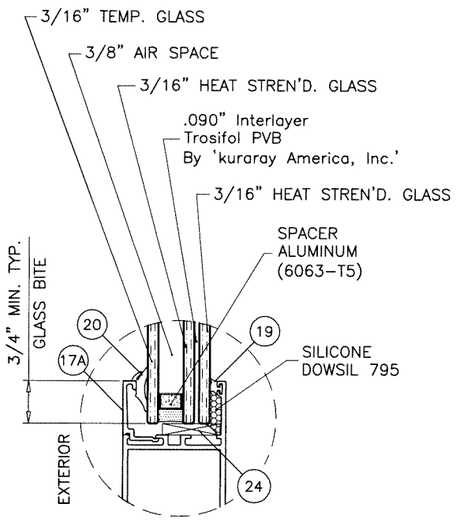
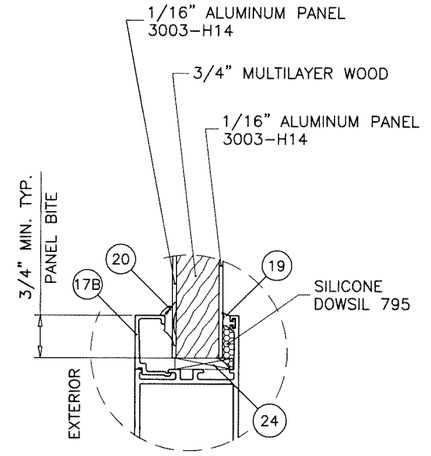


GLASS TYPE 'Ai'



7/8" OVERALL GLUED CLADDED PANEL

EXTERIOR AND INTERIOR ALUMINUM CLADDING GLUED TO CENTER CORE WITH MRG-A-30-013

NOTE:
GLASS CAPACITIES ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS) AND FLORIDA BUILDING COMMISSION DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 6/10/2025

FL #26942

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.

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

COMP-ANL\18-36F-MG

SERIES 3000 ALUMINUM OUTSWING DOOR (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

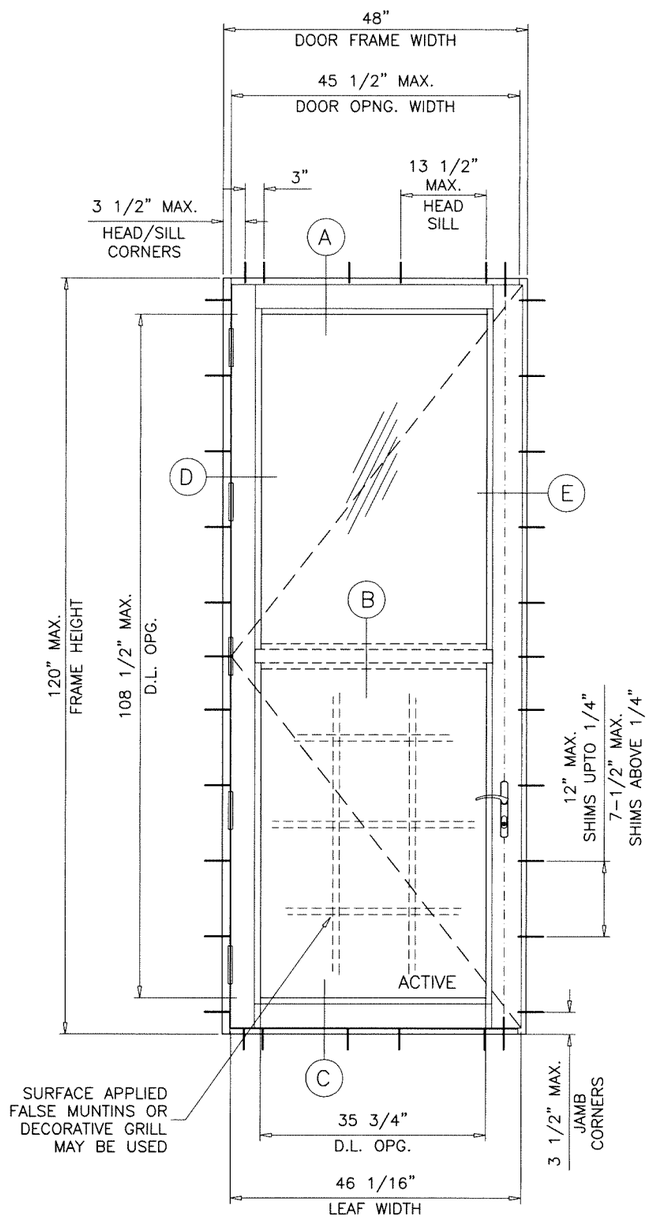
revisions:

no	date	by	description
A	07.22.20		UPDATED TO 2020 FBC
B	11.24.21		NEW TESTS ADDED
C	06.15.23		GENERAL REVISION
D	07.21.23		UPDATED TO 2023 FBC
E	05.30.25		GLASS INSERT OPTION ADDED

date: 03-20-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

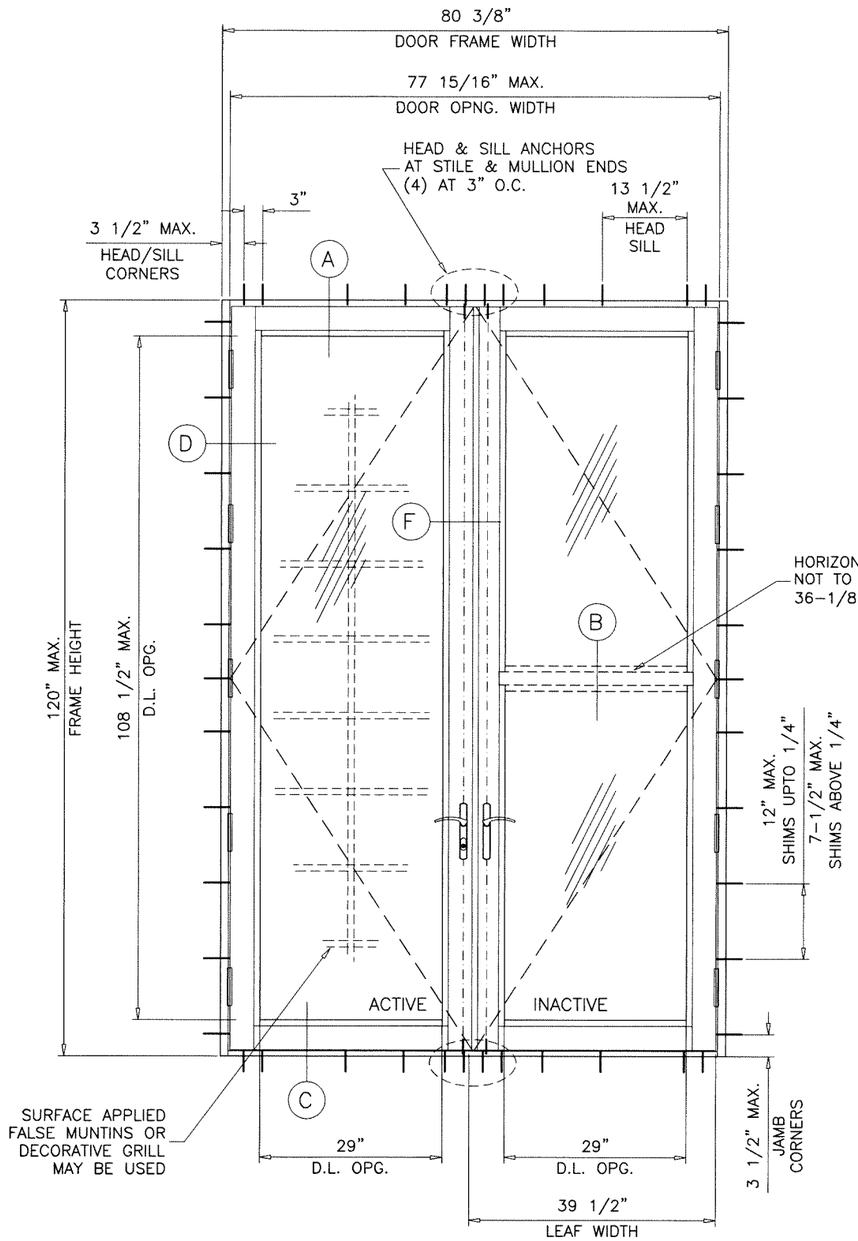
drawing no. 18-36F

sheet 1 of 10



TYPICAL ELEVATION

(X)



TYPICAL ELEVATION

(XX)

NOTE:
EGRESS REQUIREMENTS TO BE REVIEWED BY BUILDING OFFICIAL.

GLASS D.L.O. FORMULAE:
D.L.O. WIDTH = FRAME WIDTH – 12.438" (X DOORS)
= (FRAME WIDTH – 22.0")/2 (XX DOORS)
D.L.O. HEIGHT = FRAME HEIGHT – 11.50"

DOORS LOAD CAPACITY – PSF
SINGLE (X) DOORS

SINGLE DOOR (X) DIMS.		GLASS						GLUED CLADDED PANEL	
		TYPE 'A' & 'Ai'		TYPE 'B'		TYPE 'C'			
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
40–1/2"	98"	80.0	80.0	65.0	70.0	60.0	60.0	80.0	80.0
41–3/8"	120"	–	–	65.0	70.0	60.0	60.0	80.0	80.0
48"	120"	–	–	65.0	70.0	60.0	60.0	80.0	80.0

DOORS LOAD CAPACITY – PSF
DOUBLE (XX) DOORS

DOUBLE DOOR (XX) DIMS.		GLASS						GLUED CLADDED PANEL	
		TYPE 'A' & 'Ai'		TYPE 'B'		TYPE 'C'			
FRAME WIDTH	FRAME HEIGHT	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
78–1/2"	98"	80.0	80.0	65.0	70.0	60.0	60.0	80.0	80.0
80–3/8"	120"	–	–	–	–	60.0	60.0	60.0	60.0

Sealed: 6/10/2025
FL #26942

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\18-36F-MG

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revisions:

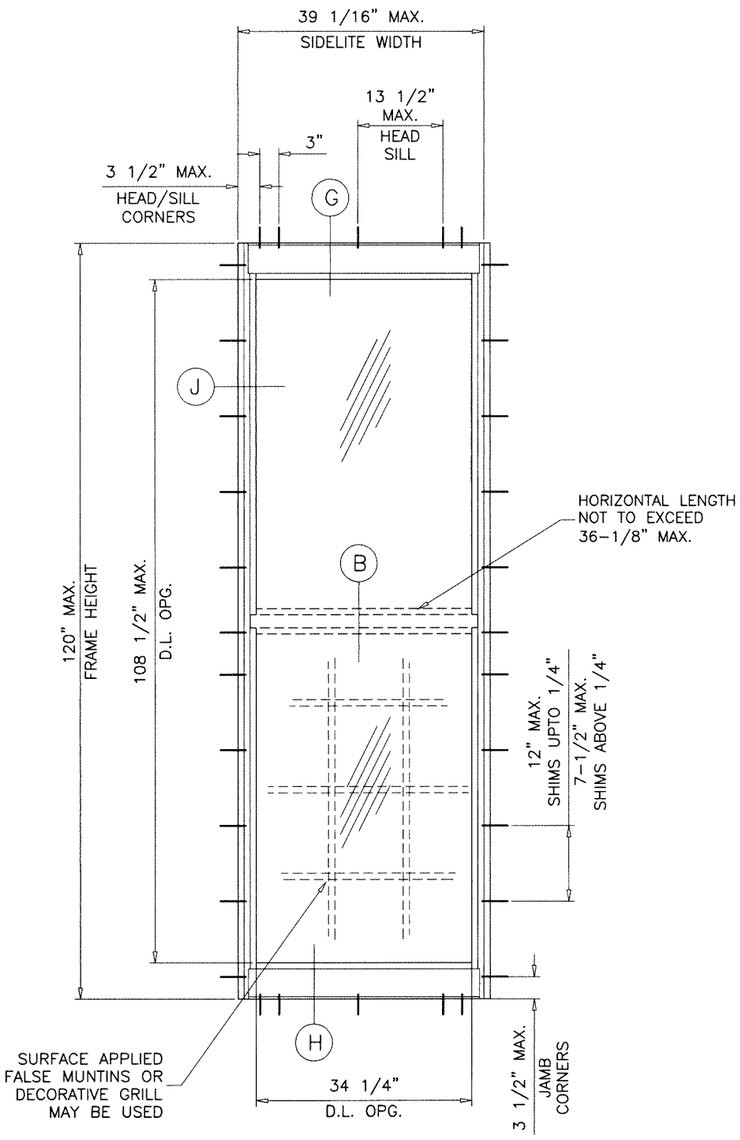
no	date	by	description

date: 03-20-18
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

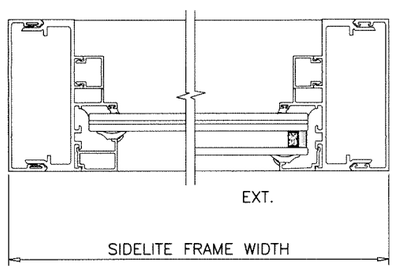
drawing no. 18–36F

DESIGN LOAD CAPACITY – PSF
STAND ALONE SINGLE SIDELITES

SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'		GLASS TYPE 'B'		GLASS TYPE 'C'		GLUED CLADDED PANEL	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	84	80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
30		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
36		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
42		74.3	74.3	74.3	74.3	55.8	55.8	80.0	80.0
24	90	80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
30		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
36		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
42		74.3	74.3	74.3	74.3	55.8	55.8	80.0	80.0
24	96	80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
30		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
36		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
42		–	–	–	–	55.8	55.8	80.0	80.0
24	98	80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
30		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
36		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	60.0	60.0	80.0	80.0
42		–	–	–	–	55.8	55.8	80.0	80.0
24	102	–	–	–	–	60.0	60.0	80.0	80.0
30		–	–	–	–	60.0	60.0	80.0	80.0
36		–	–	–	–	60.0	60.0	80.0	80.0
39–1/16		–	–	–	–	60.0	60.0	80.0	80.0
42		–	–	–	–	55.8	55.8	80.0	80.0
24	108	–	–	–	–	60.0	60.0	80.0	80.0
30		–	–	–	–	60.0	60.0	80.0	80.0
36		–	–	–	–	60.0	60.0	80.0	80.0
39–1/16		–	–	–	–	60.0	60.0	80.0	80.0
42		–	–	–	–	55.8	55.8	80.0	80.0
24	114	–	–	–	–	60.0	60.0	80.0	80.0
30		–	–	–	–	60.0	60.0	80.0	80.0
36		–	–	–	–	60.0	60.0	80.0	80.0
39–1/16		–	–	–	–	60.0	60.0	80.0	80.0
24	120	–	–	–	–	60.0	60.0	80.0	80.0
30		–	–	–	–	60.0	60.0	80.0	80.0
36		–	–	–	–	60.0	60.0	80.0	80.0
39–1/16		–	–	–	–	60.0	60.0	80.0	80.0



TYPICAL ELEVATION
(O)
STAND ALONE SIDELITE



GLASS D.L.O. DIMS.
D.L.O. HEIGHT (SIDELITE) = FRAME HEIGHT – 11.50"
D.L.O. WIDTH (SIDELITE) = FRAME WIDTH – 4.813"

Sealed: 6/10/2025

FL #26942

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP–ANL\18–36F–MG

SERIES 3000 ALUMINUM OUTSWING DOOR (L.M.I.)

MR–GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764–3963 Fax. (305) 470–8285

revisions:

no	date	by	description

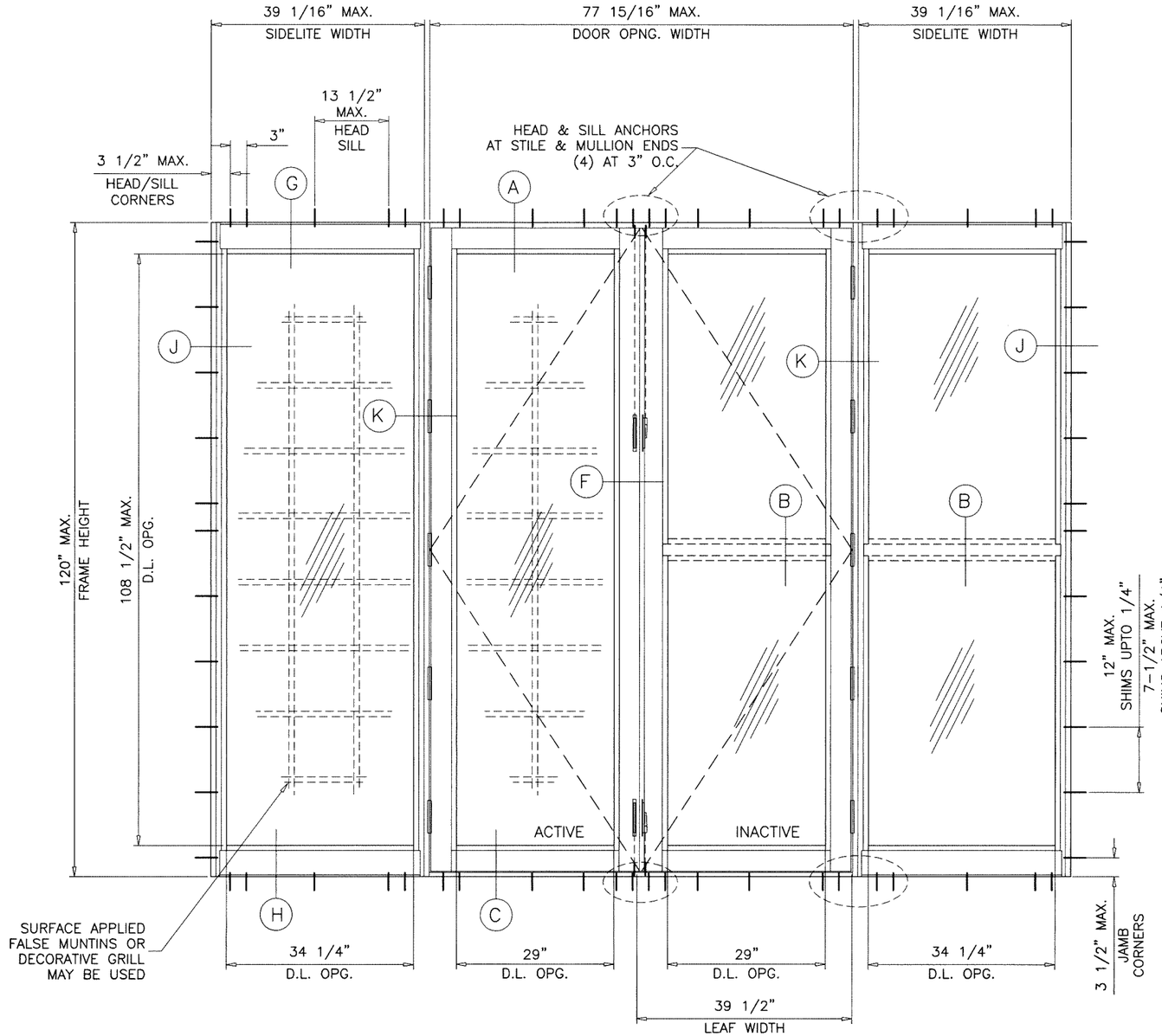
date: 03–20–18
scale: 1/2"=1'–0"
dr. by: TARIQ
chk. by:

drawing no. 18–36F

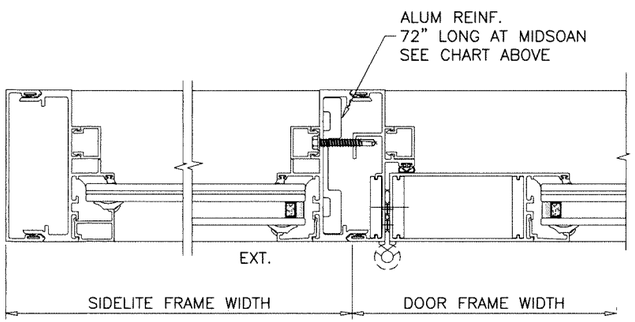
sheet 3 of 10

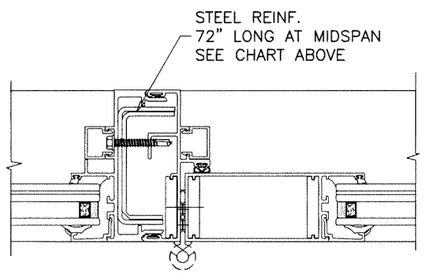
DESIGN LOAD CAPACITY – PSF
SIDELITES WITH SINGLE OR DOUBLE LEAF DOORS
(SEE NOTE BELOW)

SIDELITE FRAME WIDTH INCHES	SIDELITE FRAME HEIGHT INCHES	DOOR MULLION WITHOUT REINF.		DOOR MULLION ALUM REINF.		DOOR MULLION STEEL REINF.	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
24	84	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	80.0	80.0
24	90	80.0	80.0	80.0	80.0	80.0	80.0
30		80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0
39–1/16		80.0	80.0	80.0	80.0	80.0	80.0
42		78.2	78.2	80.0	80.0	80.0	80.0
24	96	80.0	80.0	80.0	80.0	80.0	80.0
30		77.9	77.9	80.0	80.0	80.0	80.0
36		71.7	71.7	80.0	80.0	80.0	80.0
39–1/16		69.0	69.0	80.0	80.0	80.0	80.0
42		–	–	60.0	60.0	60.0	60.0
24	98	80.0	80.0	80.0	80.0	80.0	80.0
30		73.2	73.2	80.0	80.0	80.0	80.0
36		67.4	67.4	80.0	80.0	80.0	80.0
39–1/16		64.8	64.8	80.0	80.0	80.0	80.0
42		–	–	60.0	60.0	60.0	60.0
24	102	–	–	60.0	60.0	60.0	60.0
30		–	–	60.0	60.0	60.0	60.0
36		–	–	60.0	60.0	60.0	60.0
39–1/16		–	–	60.0	60.0	60.0	60.0
42		–	–	60.0	60.0	60.0	60.0
24	108	–	–	60.0	60.0	60.0	60.0
30		–	–	60.0	60.0	60.0	60.0
36		–	–	60.0	60.0	60.0	60.0
39–1/16		–	–	60.0	60.0	60.0	60.0
42		–	–	60.0	60.0	60.0	60.0
24	114	–	–	60.0	60.0	60.0	60.0
30		–	–	60.0	60.0	60.0	60.0
36		–	–	58.0	58.0	60.0	60.0
39–1/16		–	–	55.7	55.7	60.0	60.0
24	120	–	–	58.9	58.9	60.0	60.0
30		–	–	53.8	53.8	60.0	60.0
36		–	–	49.6	49.6	60.0	60.0
39–1/16		–	–	47.7	47.7	60.0	60.0



TYPICAL ELEVATION
(O–XX–O)





NOTE:
FOR DOORS CAPACITIES SEE SHEET 2.
FOR SIDELITE CAPACITY SEE SHEET 3.
FOR SIDELITE MULLION CAPACITIES SEE CHART ABOVE.
LOWER VALUES FROM DOOR, SIDELITE OR MULLION CHART WILL APPLY TO ENTIRE SYSTEM.

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FL #26942

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

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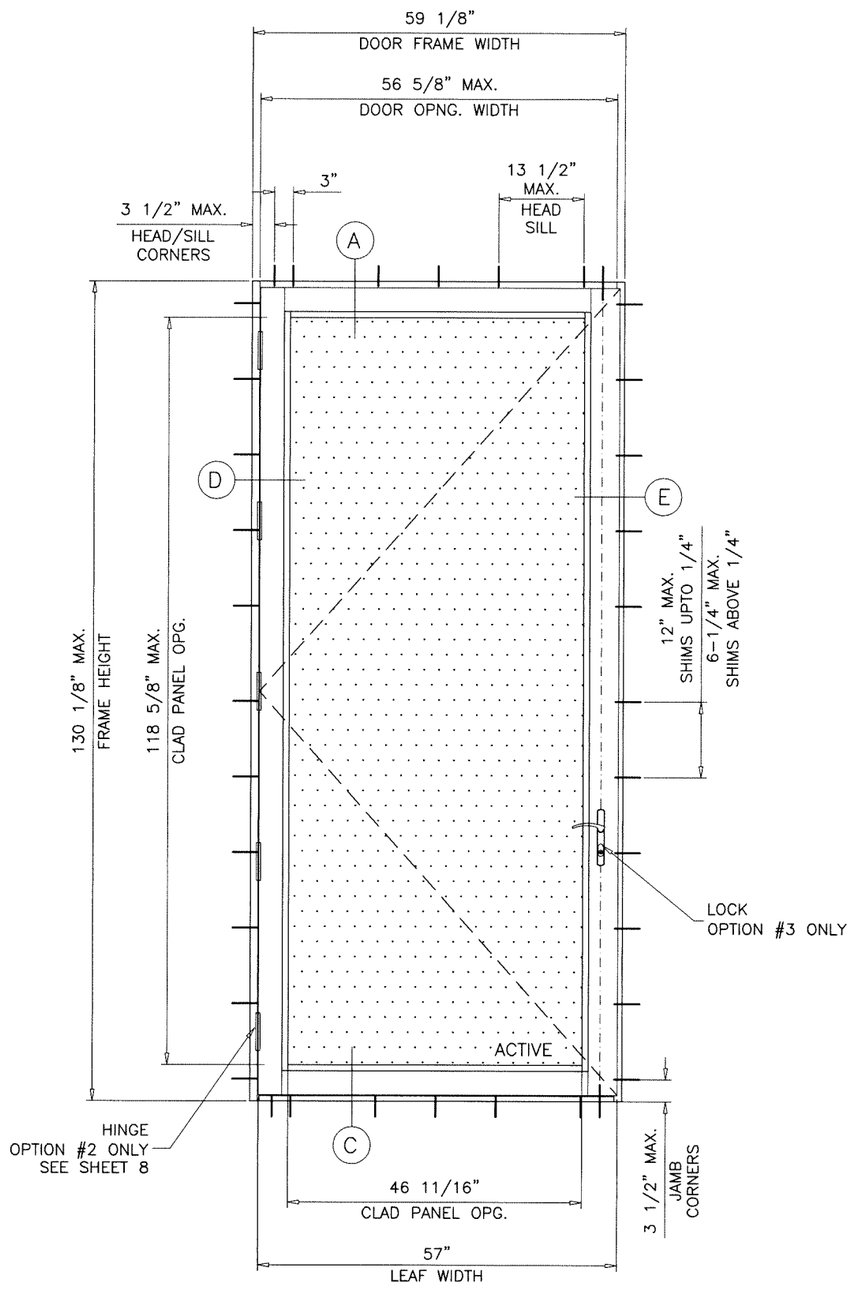
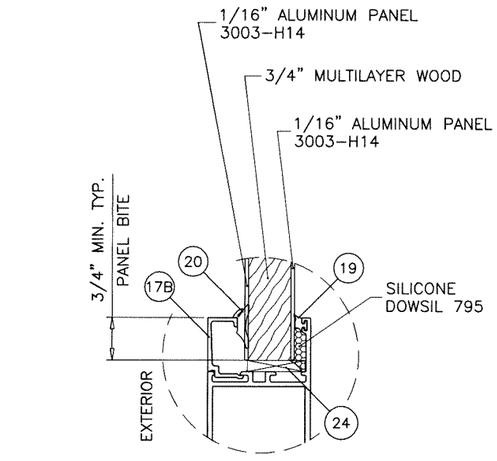
sheet 4 of 10



TYPICAL ELEVATION

(X)



7/8" OVERALL GLUED CLADDED PANEL

EXTERIOR AND INTERIOR ALUMINUM CLADDING GLUED TO CENTER CORE WITH MRG-A-30-013

CLADDED PANEL DOOR

MAXIMUM DESIGN LOAD RATING = + 80.0 PSF
– 80.0 PSF

(FOR SIZE SHOWN ON THIS SHEET ONLY OR SMALLER)

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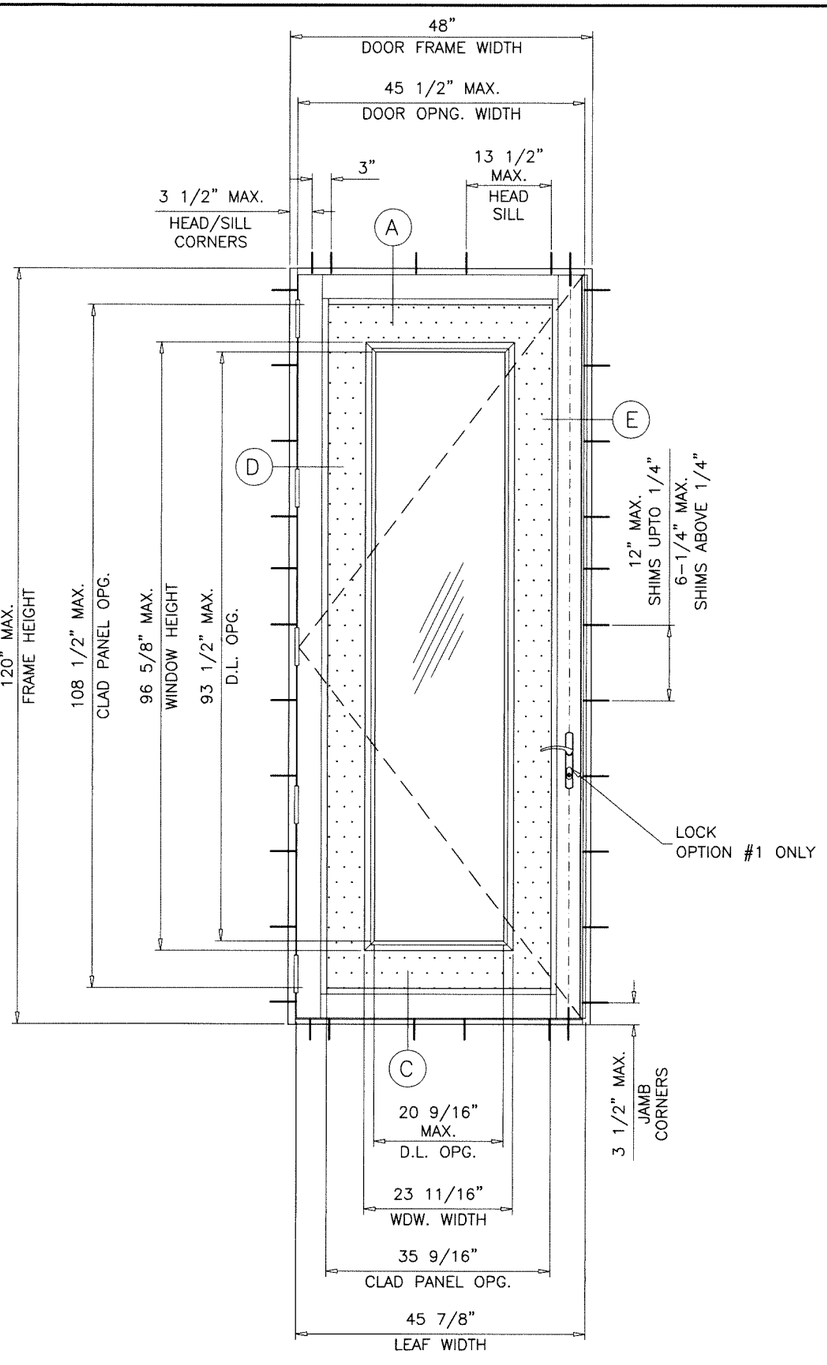


TYPICAL ELEVATION

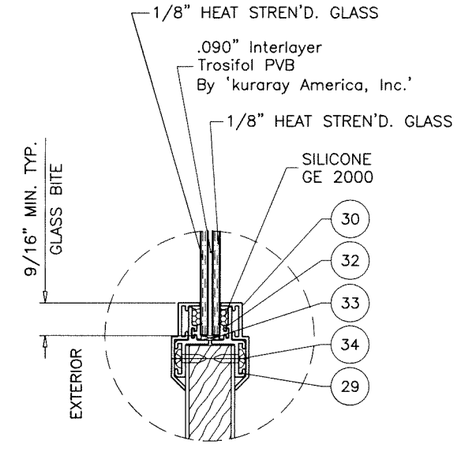
(X)

CLADDED PANEL DOOR WITH WDW. INSERT

MAXIMUM DESIGN LOAD RATING = + 60.0 PSF

– 60.0 PSF

(FOR SIZE SHOWN ON THIS SHEET ONLY OR SMALLER)



WINDOW INSERT AT INFILL PANEL

SEE SHEET 1 FOR 7/8" THK. SOLID PANEL DETAIL

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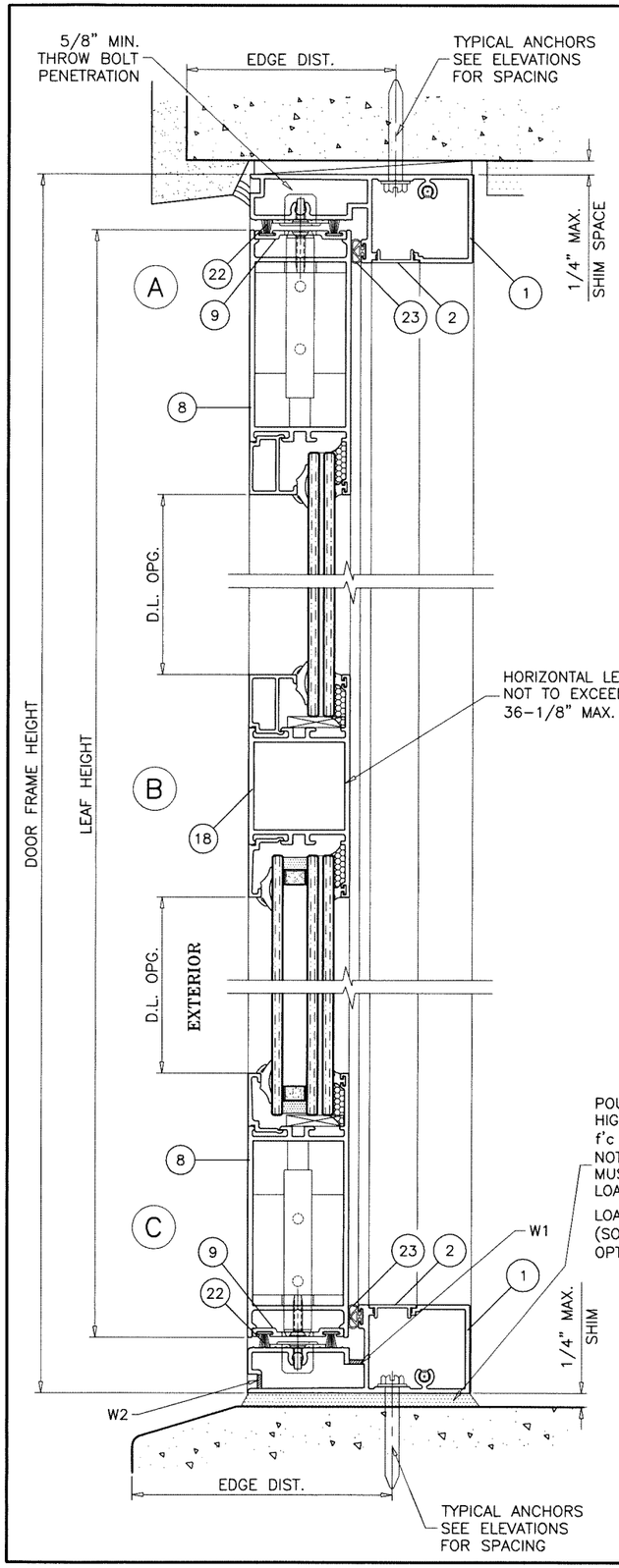
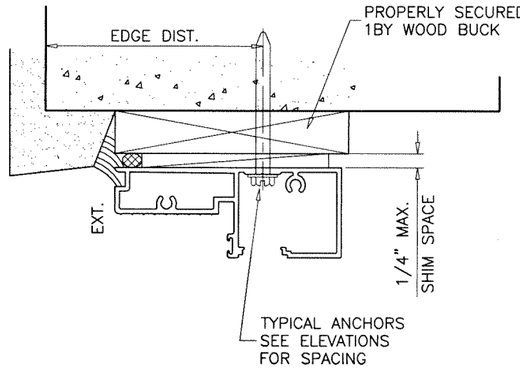
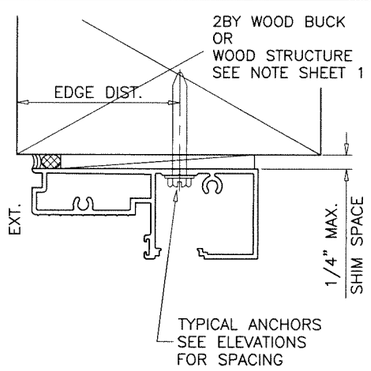
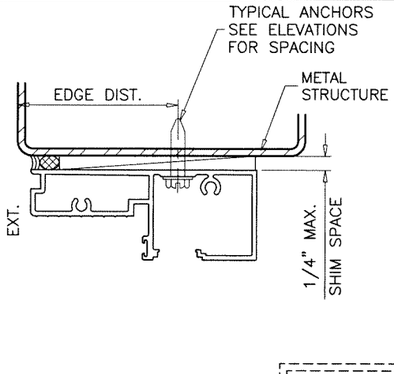
sheet 4.2 of 10

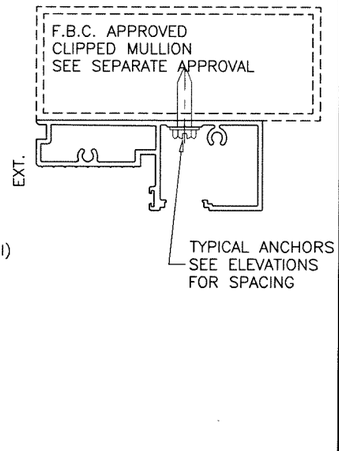


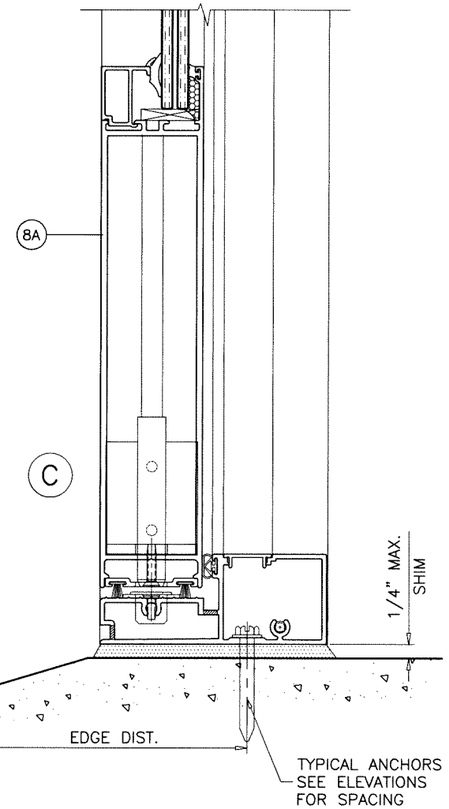






1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'MR-GLASS' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.





TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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

1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

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

WEEPHOLES:

W1 = 1/4" X 2" LONG WEEP SLOTS AT 8" AND 31" FROM EACH END

W2 = 1/4" X 2" LONG WEEP SLOTS AT 5" AND 31" FROM EACH END

DOOR DETAILS

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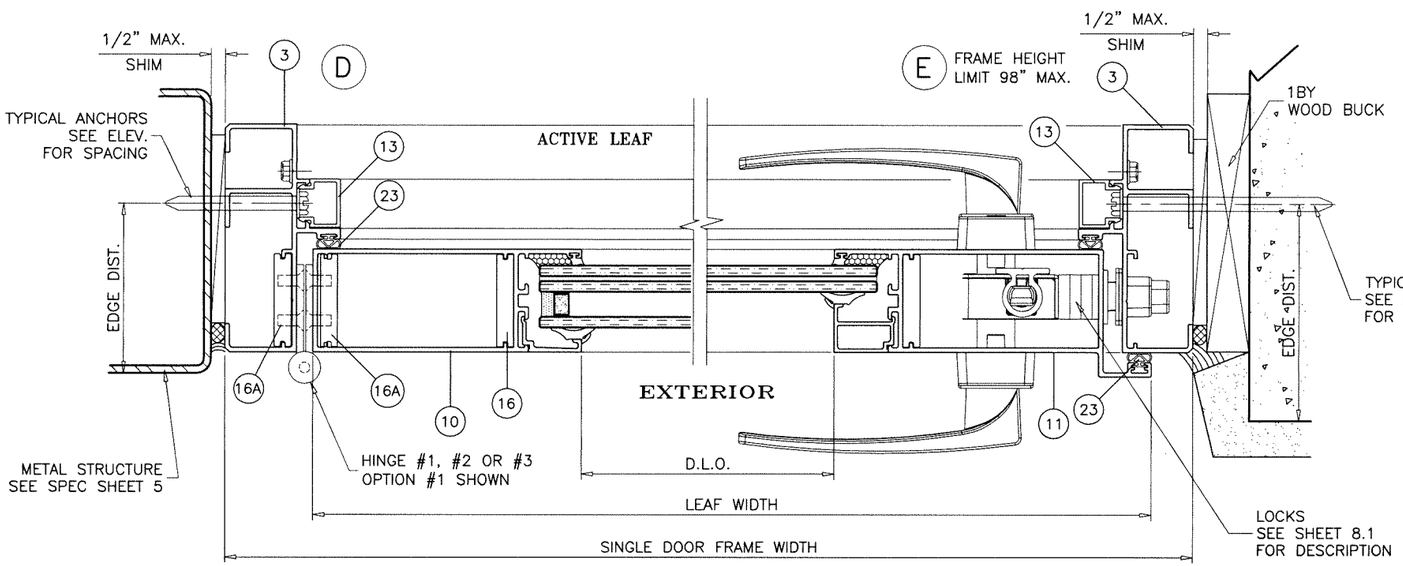
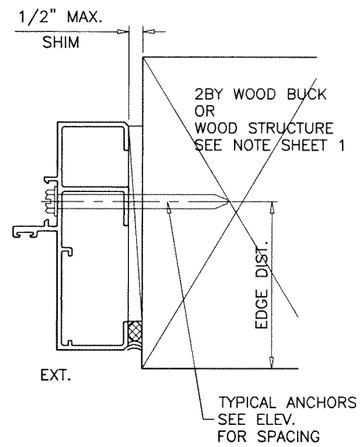
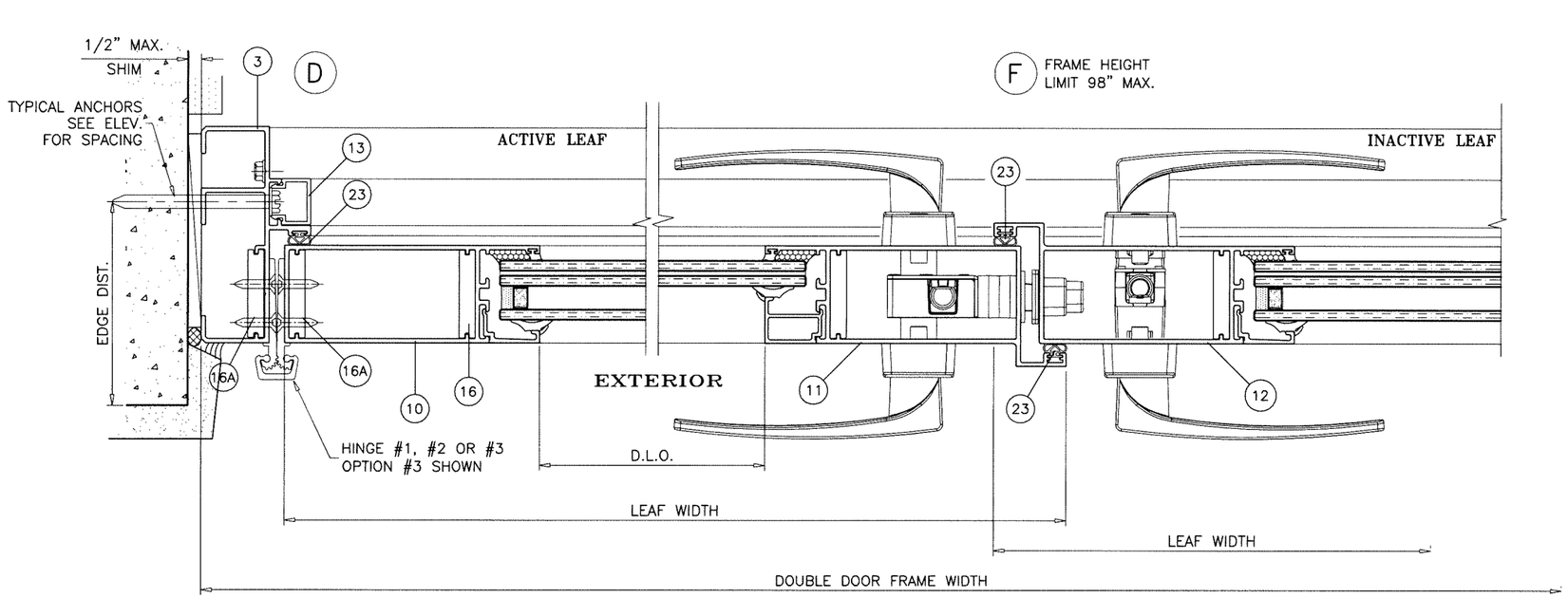
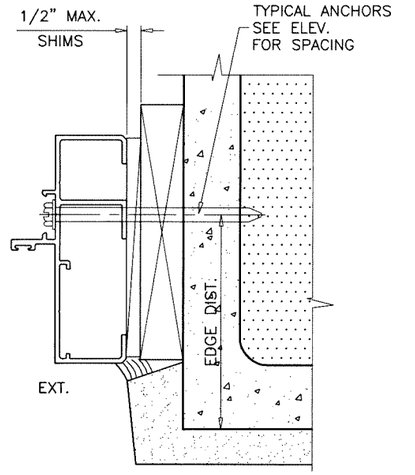
sheet 5 of 10









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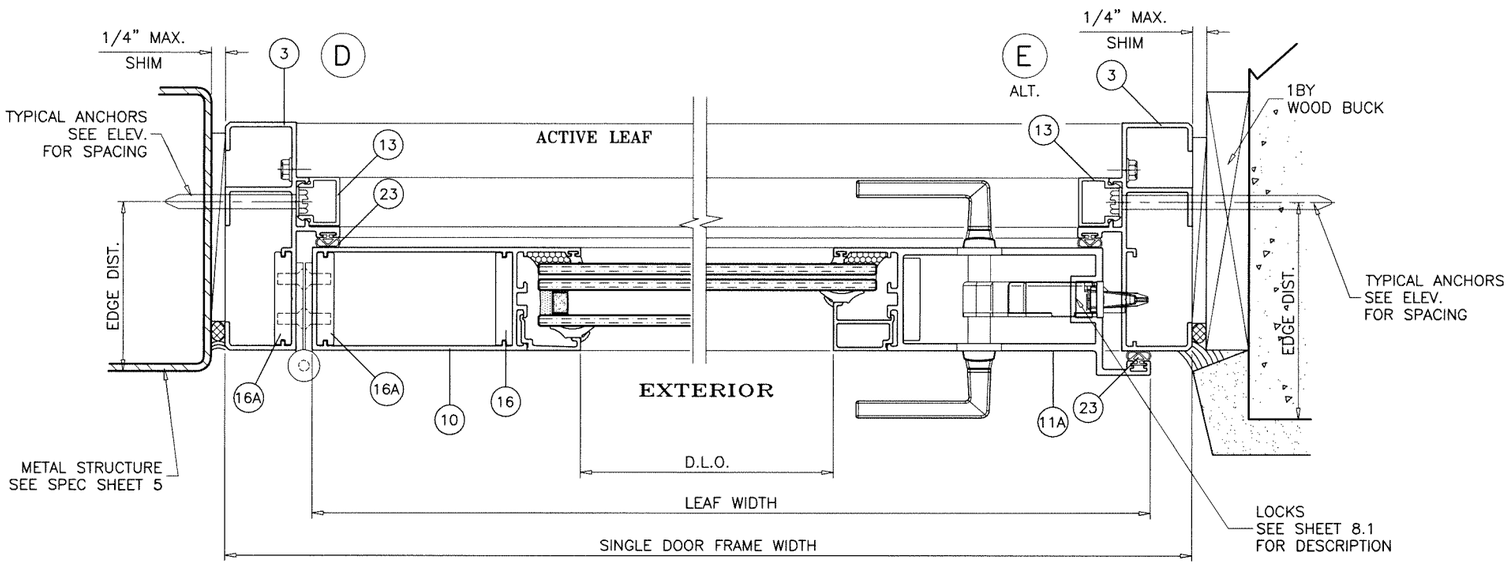
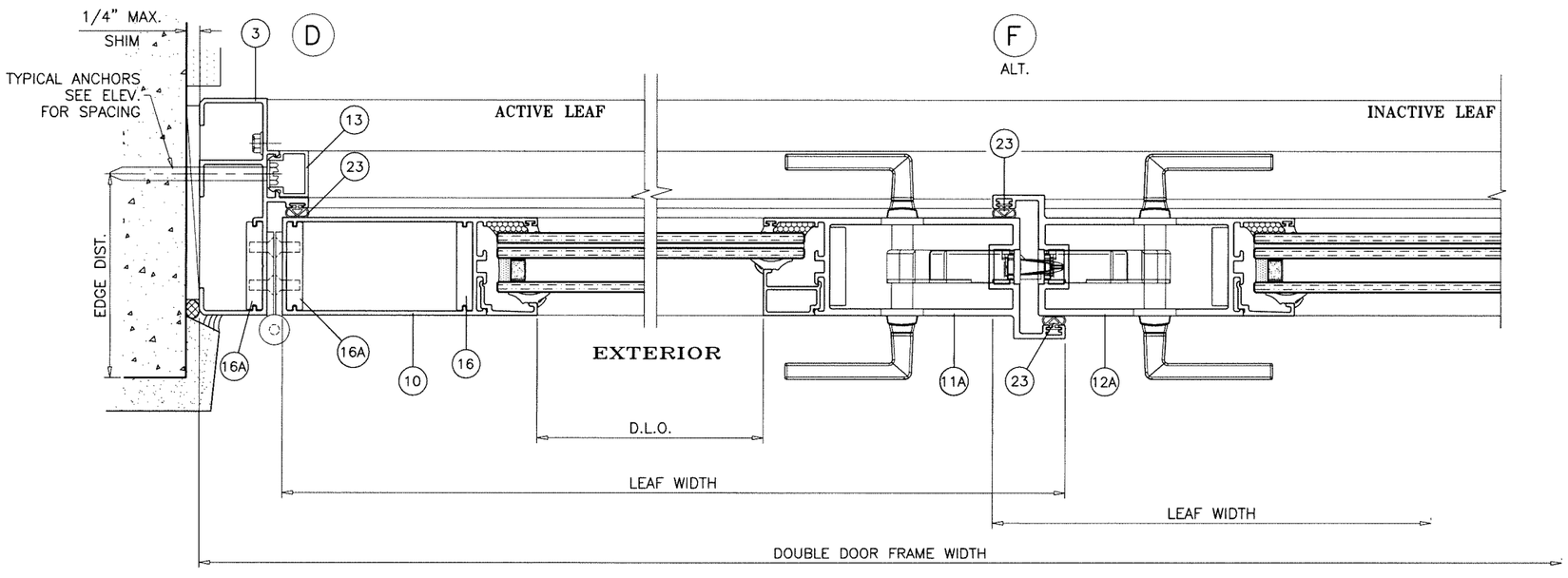
sheet 6 of 10





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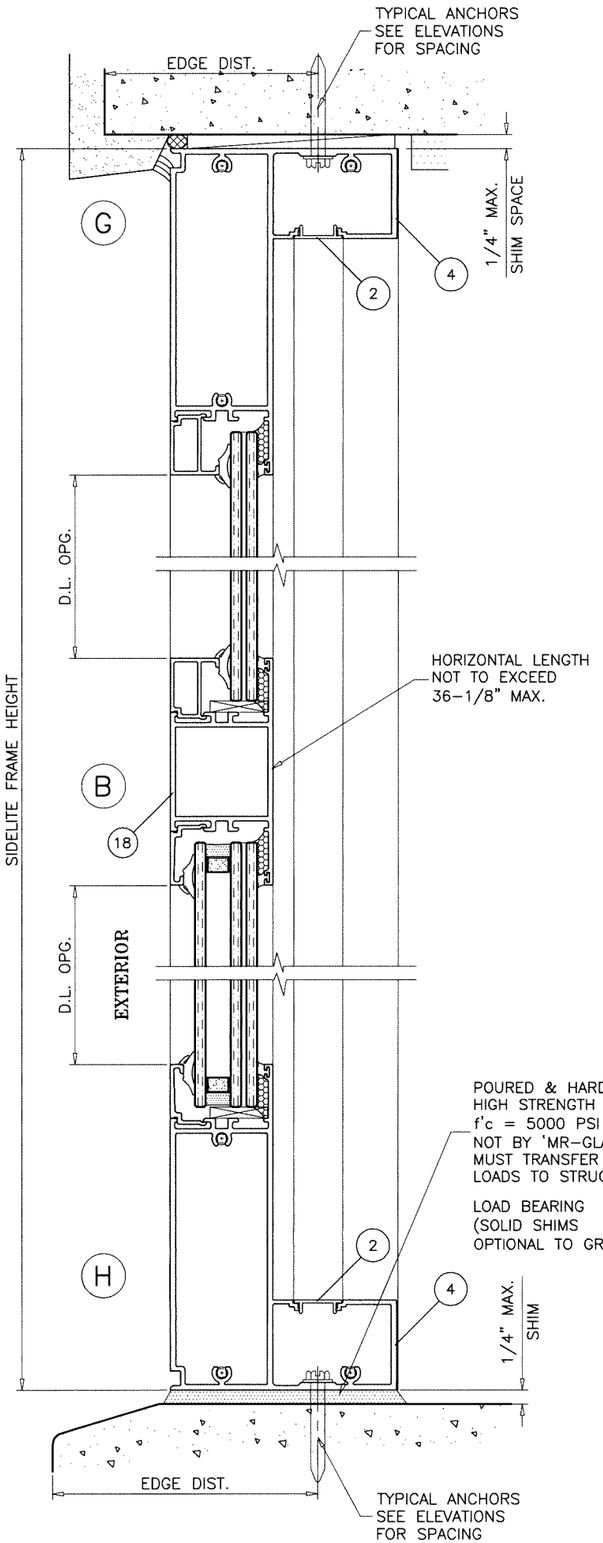

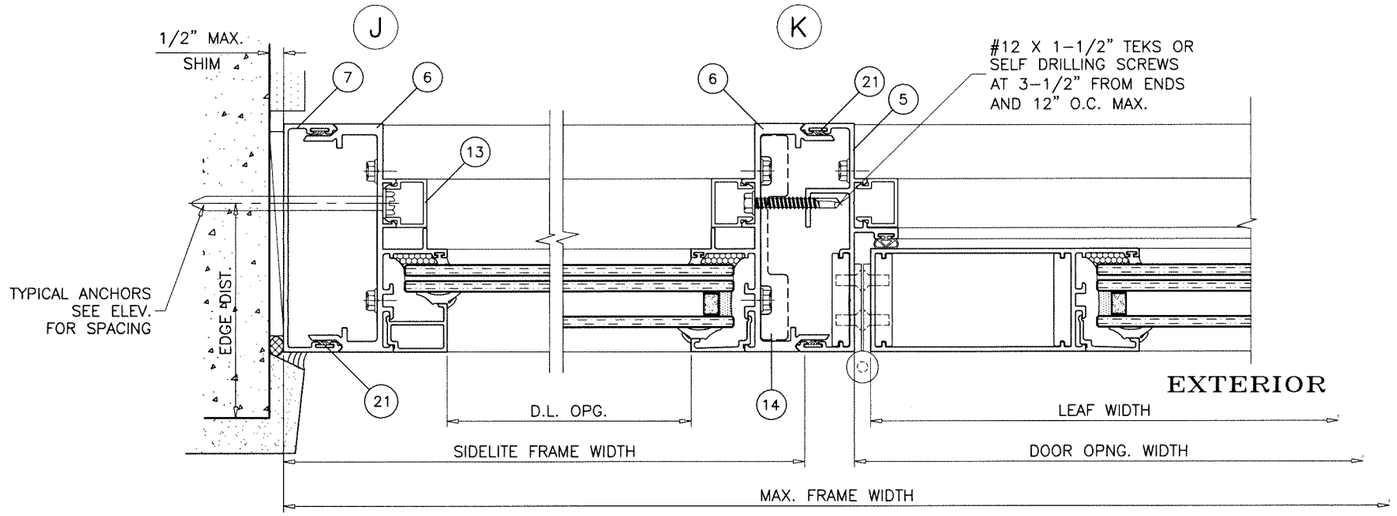

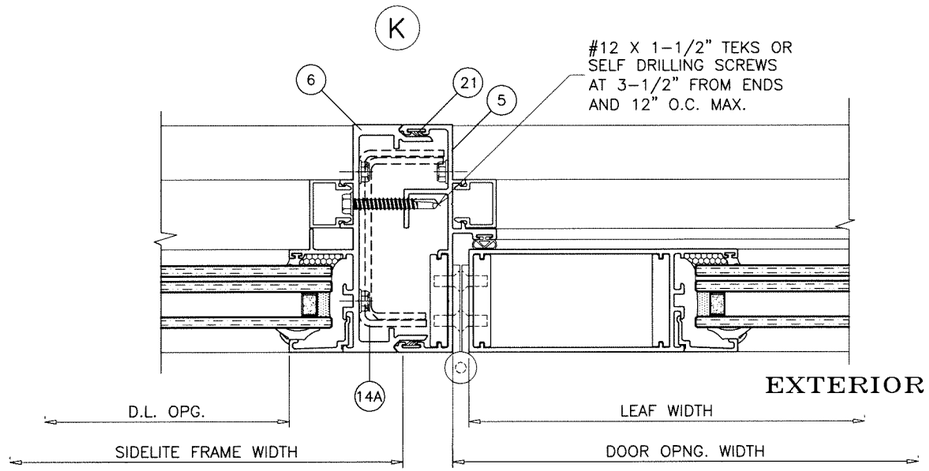

SIDELITE DETAILS

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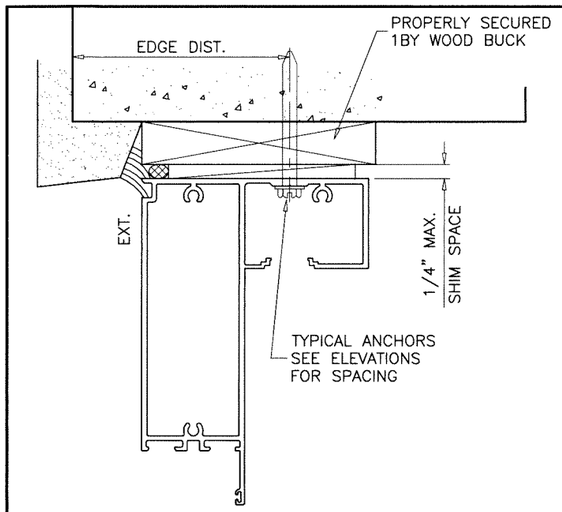

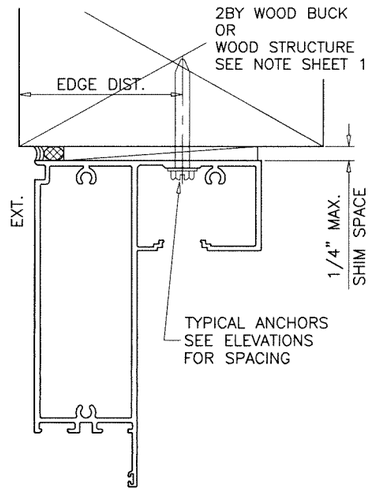

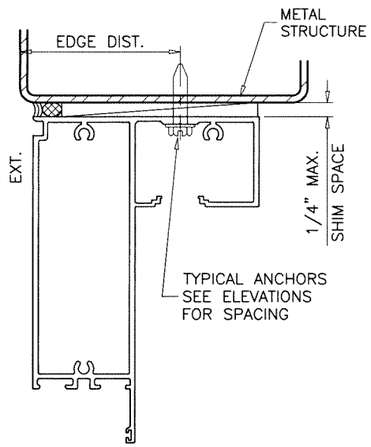

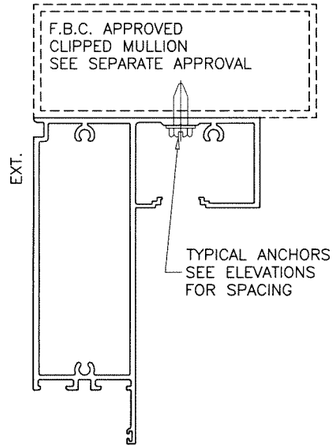

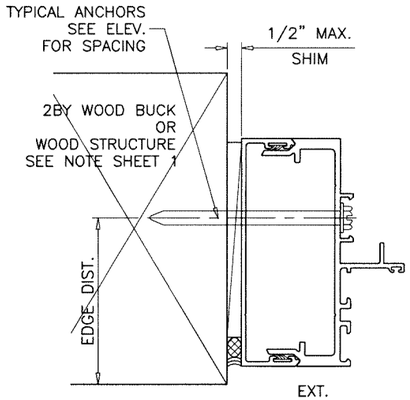

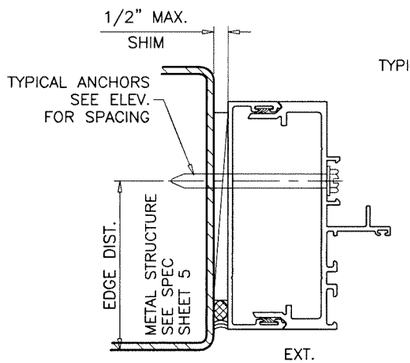

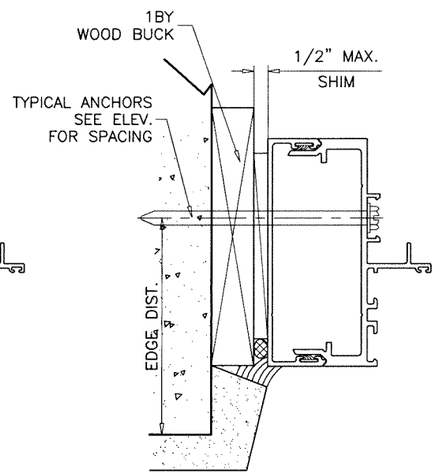

SIDELITE DETAILS

Sealed: 6/10/2025

FL #26942

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
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COMP-ANL\18-36F-MG

SERIES 3000 ALUMINUM OUTSWING DOOR (L.M.I.)

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revisions:

no	date	by	description

date: 03-20-18
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no. 18-36F

sheet 7.1 of 10

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E3008	AS REQD.	DOOR FRAME HEAD/SILL	6063–T6	–
2	E1018	AS REQD.	FRAME COVER	6063–T6	–
3	E3006	AS REQD.	DOOR FRAME JAMB	6063–T6	–
4	E3011	AS REQD.	SIDELITE TOP & BOTTOM FRAME	6063–T6	–
5	E3007	AS REQD.	SIDELITE JAMB FEMALE	6063–T6	–
6	E3009	AS REQD.	SIDELITE JAMB MALE	6063–T6	–
7	E3010	AS REQD.	SIDELITE SLIP ON JAMB	6063–T6	–
8	E3001	AS REQD.	LEAF TOP & BOTTOM RAIL	6063–T6	–
8A	E3020	AS REQD.	HIGH BOTTOM RAIL	6063–T6	–
9	E3005	AS REQD.	LEAF W'STRIP ADAPTER	6063–T6	–
10	E3002	AS REQD.	HINGE STILE	6063–T6	–
11	E3003	AS REQD.	LOCK STILE	6063–T6	FOR LOCK OPTIONS #1 & #2
11A	E3024	AS REQD.	ALT. LOCK STILE	6063–T6	FOR LOCK OPTION #3
12	E3004	AS REQD.	ASTRAGAL STILE	6063–T6	FOR LOCK OPTIONS #1 & #2
12A	E3023	AS REQD.	ALT. ASTRAGAL STILE	6063–T6	FOR LOCK OPTION #3
13	E3014	AS REQD.	SNAP COVER	6063–T5	–
14	E3013	AS REQD.	SIDELITE ALUM REINF, 72" LONG, CENTERED IN SPAN	6063–T6	–
14A	–	AS REQD.	SIDELITE STEEL REINF, 72" LONG, CENTERED IN SPAN	STEEL	A36, Fu MIN. = 58 KSI
15	E3015	AS REQD.	SHEAR BLOCK	6063–T6	3" LONG
15A	E3019	AS REQD.	SHEAR BLOCK	6063–T6	3" LONG
16	E3016	AS REQD.	SHEAR BLOCK NUT	6063–T6	3" LONG
16A	E3016	2/ HINGE	HINGE BACK–UP PLATE	6063–T6	8–1/2" LONG @ FRAME, 4–3/4" LONG @ LEAF
17	E9001	AS REQD.	GLAZING BEAD (LAM. GLASS)	6063–T6	–
17A	E9002	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063–T6	–
17B	E9003	AS REQD.	GLAZING BEAD (CLADDED PANEL)	6063–T6	–
18	E3012	AS REQD.	INTERMEDIATE HORIZONTAL	6063–T6	–
19	G30–01	AS REQD.	INTERIOR GLAZING SPACER	SANTOPRENE	DUROMETER 70±5 SHORE A
20	G10–04	AS REQD.	EXTERIOR GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
21	G30–02	AS REQD.	DOUBLE FIN AIR SEAL W'STRIPPING	SANTOPRENE	DUROMETER 70±5 SHORE A
22	W71325NK	AS REQD.	PILE W'STRIPPING	WOOL	ULTRAFAB
23	G10–05	AS REQD.	BULB W'STRIPPING	SANTOPRENE	EPDM
24	–	2/ LITE	SETTING BLOCK, 1/8" X 1" X 4" LONG	EPDM	AT 6" FROM EACH END, DUROMETER 80±5
26	#12 X 1–1/2"	AS REQD.	FRAME ASSEMBLY SCREWS	ST. STEEL	HWH SMS
27	3/8 X 1"	AS REQD.	SHEAR BLOCK FASTENERS	ST. STEEL	HEX SOCKET HEAD SCREWS
28	#12 X 1–1/2"	AS REQD.	SHEAR BLOCK FASTENERS	ST. STEEL	HWH SMS
29	E3026	AS REQD.	WINDOW FRAME	6063–T6	–
30	E3027	AS REQD.	WINDOW FRAME COVER	6063–T6	–
31	A60–04	1/ CORNER	FRAME ALIGNMENT KEY	ST. STEEL	–
32	G25–01	AS REQD.	WINDOW GLAZING SPACER	SANTOPRENE	DUROMETER 70±5 SHORE A
33	–	2/LITE	SETTING BLOCK	–	AT 6" FROM EACH END
34	#8 X 1/2"	AS REQD.	WINDOW INSTALLATION SCREWS, AT 3" FROM ENDS & 12" O.C. MAX.	–	PH PH SMS

HINGES:

OPTION #1:

7–1/2" LONG ALUMINUM BUTT HINGES F107 BY 'SULLIVAN & ASSOC.'
(3) FOR DOORS UPTO 98" HEIGHTS
(5) FOR DOORS ABOVE 98" HEIGHTS
TOP AND BOTTOM HINGES AT 8" FROM ENDS
INTERMEDIATE HINGES EQUALLY SPACED
FASTENED TO FRAME WITH
(6) #10 X 3/4" FH SELF DRILLING SCREWS
FASTENED TO LEAF WITH
(5) #10 X 3/4" PH SELF DRILLING SCREWS

OPTION #2:

4" X 4–1/2" ST. STEEL BALL BEARING HINGES BY 'REGENT/IDH'
(3) FOR DOORS UPTO 98" HEIGHTS
(4) FOR DOORS UPTO 120" HEIGHTS
(5) FOR DOORS ABOVE 120" HEIGHTS
TOP AND BOTTOM HINGES AT 6–5/8" FROM ENDS
INTERMEDIATE HINGES EQUALLY SPACED
FASTENED TO FRAME WITH
(4) #12 X 1/2" FH SELF DRILLING SCREWS
FASTENED TO LEAF WITH
(4) #12 X 1/2" FH SELF DRILLING SCREWS

OPTION #3:

CONTINUOUS ALUMINUM GEARED HINGE FM–SLF BY 'PEMKO'
FASTENED TO FRAME AND LEAF WITH
(22) #12 X 1/2" FH SELF DRILLING SCREWS

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
WHITE/ALUMINUM COLORED SILICONE.

Sealed: 6/10/2025

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

FL #26942

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no	date	by	description

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

drawing no. 18–36F

LOCKS:

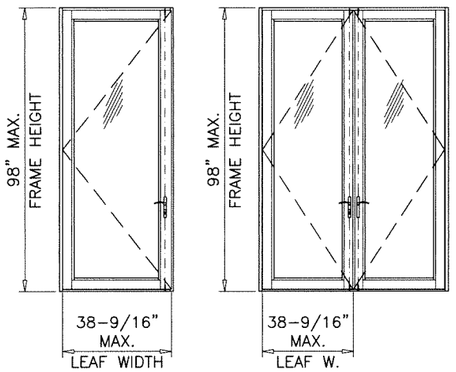
OPTION #1:

ACTIVE LEAF:

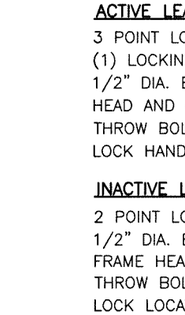
3 POINT LOCK ASSEMBLY DL01-6065 BY 'INTERLOCK USA INC.'
(1) LOCKING POINTS ENGAGING AT INACTIVE LEAF AT STRIKE PLATE
1/2" DIA. BOLTS WITH 5/8" THROW (1) AT TOP ENGAGING FRAME HEAD AND (1) AT BOTTOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK HANDLE LOCATED AT 42-1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. BOLTS WITH 5/8" THROW AT TOP AND BOTTOM ENGAGING FRAME HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42-1/2" FROM BOTTOM



MAX. DESIGN LOAD = +80 PSF
-80 PSF



MAX. DESIGN LOAD = +65 PSF
-70 PSF

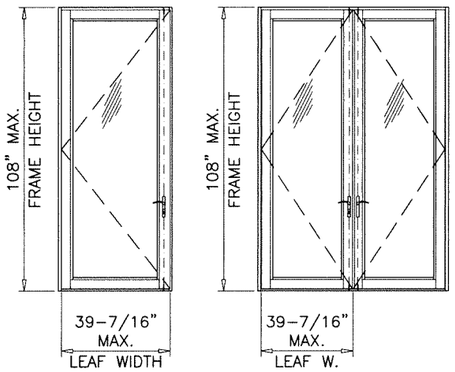
OPTION #2:

ACTIVE LEAF:

SURFACE BOLTS BY 'SULLIVAN & ASSOC.'
MANUALLY OPERATED LEVERS MOUNTED ON STILE FACE, LOCATED AT 12" AND 68" FROM BOTTOM
FASTENED TO LOCK STILE WITH
#8 X 3/4" FH SMS (2) SCREWS PER BOLT

INACTIVE LEAF

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'
MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE OF LEAF STILE LOCATED AT 28" FROM TOP AND 12" FROM BOTTOM
FASTENED TO LOCK STILE WITH
#8 X 3/4" FH SMS (2) PER BOLT



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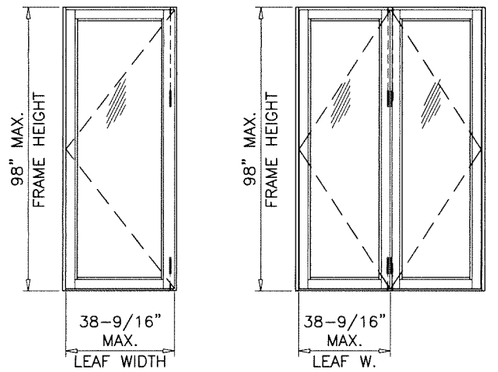
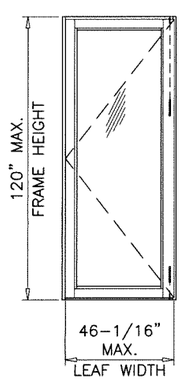
-60 PSF



MAX. DESIGN LOAD = +80 PSF
-80 PSF



MAX. DESIGN LOAD = +65 PSF
-70 PSF

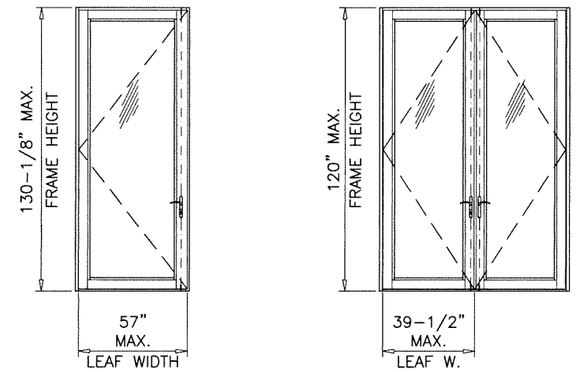
OPTION #3:

ACTIVE LEAF:

MULTI POINT LOCK ASSEMBLY DL01-6065 BY 'INTERLOCK USA INC.'
(3) LOCKING POINTS ENGAGING AT JAMB STRIKE PLATE
LOCATED AT 22", 39" AND 54-1/2" FROM BOTTOM
1/2" DIA. BOLTS WITH 5/8" THROW
(1) AT TOP ENGAGING FRAME HEAD AND
(1) AT BOTTOM ENGAGING FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK HANDLE LOCATED AT 42-1/2" FROM BOTTOM

INACTIVE LEAF:

2 POINT LOCK ASSEMBLY BY 'INTERLOCK USA INC.'
1/2" DIA. BOLTS WITH 5/8" THROW AT TOP AND BOTTOM ENGAGING FRAME HEAD AND FRAME SILL
THROW BOLTS ATTACHED TO LOCK BY 3/8" CONNECTING RODS
LOCK LOCATED AT 42-1/2" FROM BOTTOM



MAX. DESIGN LOAD = +80 PSF
-80 PSF

MAX. DESIGN LOAD = +60 PSF
-60 PSF

DOOR HANDLES:

SURFACE MOUNT METALLIC HANDLES AT 42-1/2" FROM BOTTOM
FASTENED TO ACTIVE AND INACTIVE LEAF LOCK STILES WITH
(2) 1/4-20 X 1-13/16" CONE HEAD MS
(4) 1/4-20 X 5/16" SET SCREWS

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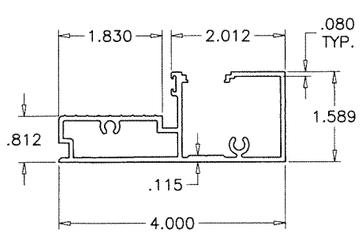
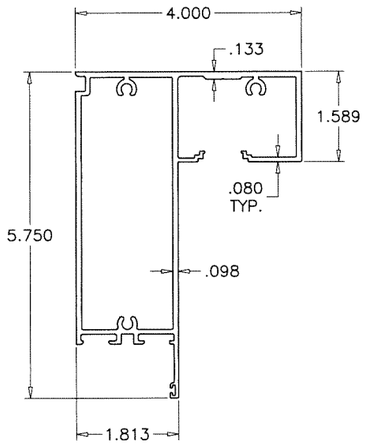
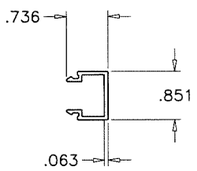


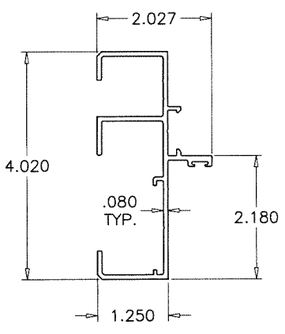
1 DOOR FRAME HEAD/SILL



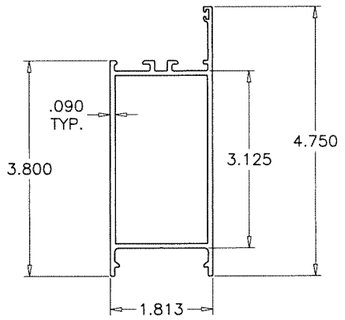
4 SIDELITE TOP & BOTTOM FRAME



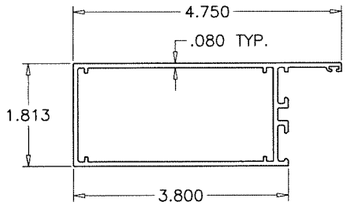
13 SNAP COVER



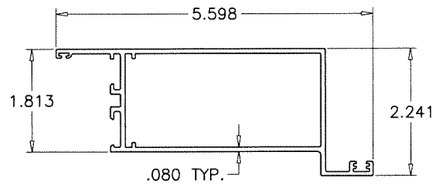
3 DOOR FRAME JAMB



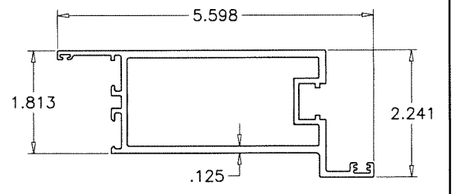
8 LEAF TOP/BOTTOM RAIL



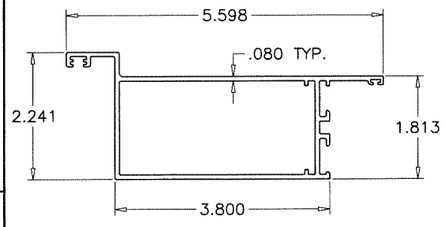
10 HINGE STILE



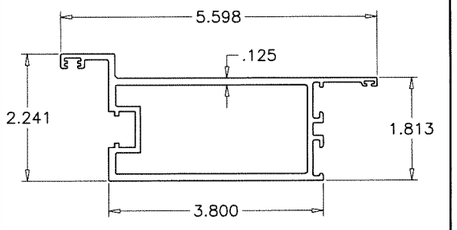
11 LOCK STILE



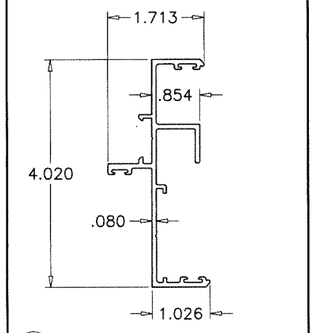
11A ALT. LOCK STILE



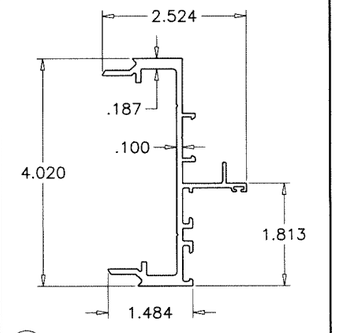
12 ASTRAGAL STILE



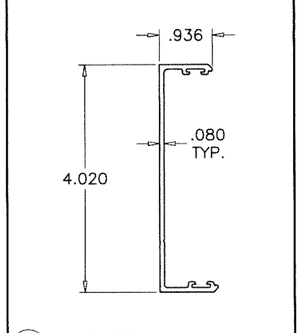
12A ALT. ASTRAGAL STILE



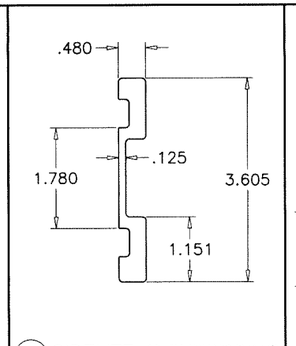
5 SIDELITE JAMB FEMALE



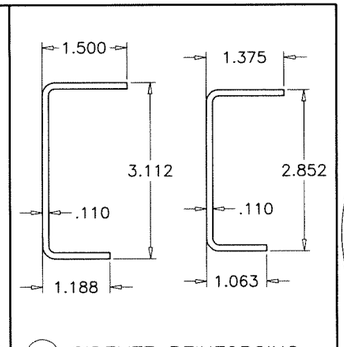
6 SIDELITE JAMB MALE



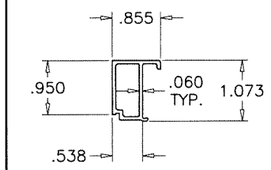
7 SIDELITE JAMB COVER



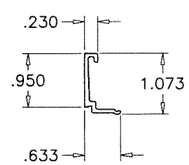
14 SIDELITE REINFORCING



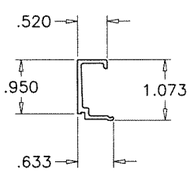
14A SIDELITE REINFORCING



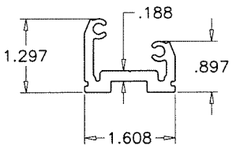
17 GLAZING BEAD
LAM. GLASS



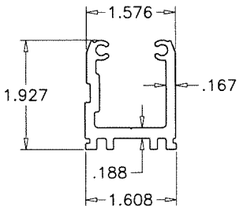
17A GLAZING BEAD
INSUL. LAM. GLASS



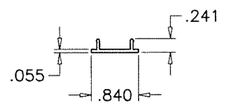
17B GLAZING BEAD
CLADDED PANEL



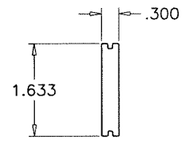
15 SHEAR BLOCK



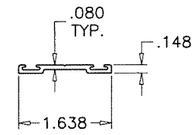
15A SHEAR BLOCK



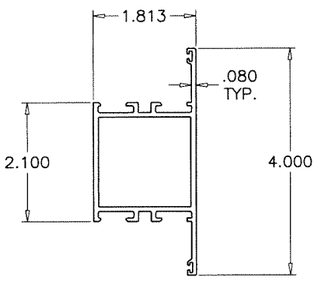
2 FRAME COVER



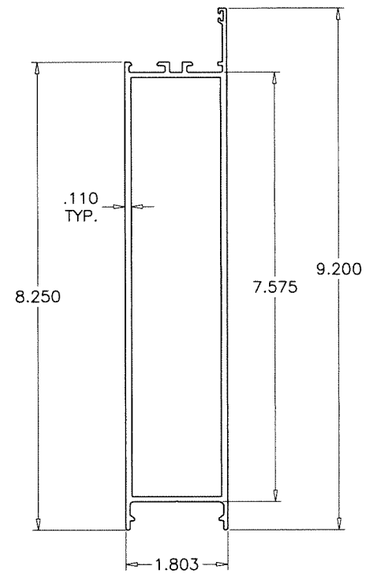
16 SHEAR BLOCK NUT
16A HINGE BACK-UP PLATE



9 LEAF W'STRIP ADAPTER



18 INTERMEDIATE HORIZONTAL



8A HIGH BOTTOM RAIL

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FL #26942

JALAL FAROOQ LICENSE No. 81223 STATE OF FLORIDA PROFESSIONAL ENGINEER

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

COMP-ANL\18-36F-MG

SERIES 3000 ALUMINUM OUTSWING DOOR (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:			
no	date	by	description

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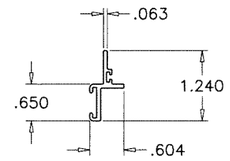
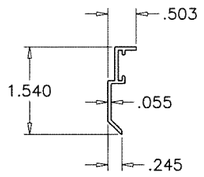
dr. by: TARIQ
chk. by:

drawing no. 18-36F

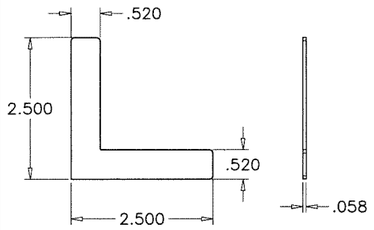
sheet 9 of 10



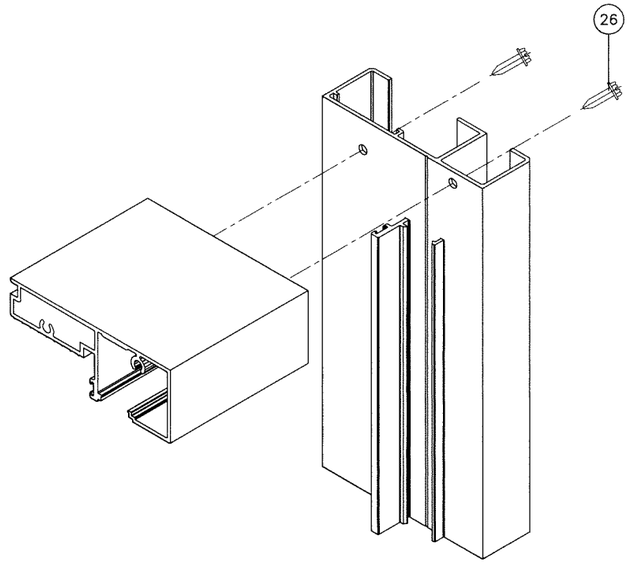
(29) WINDOW FRAME



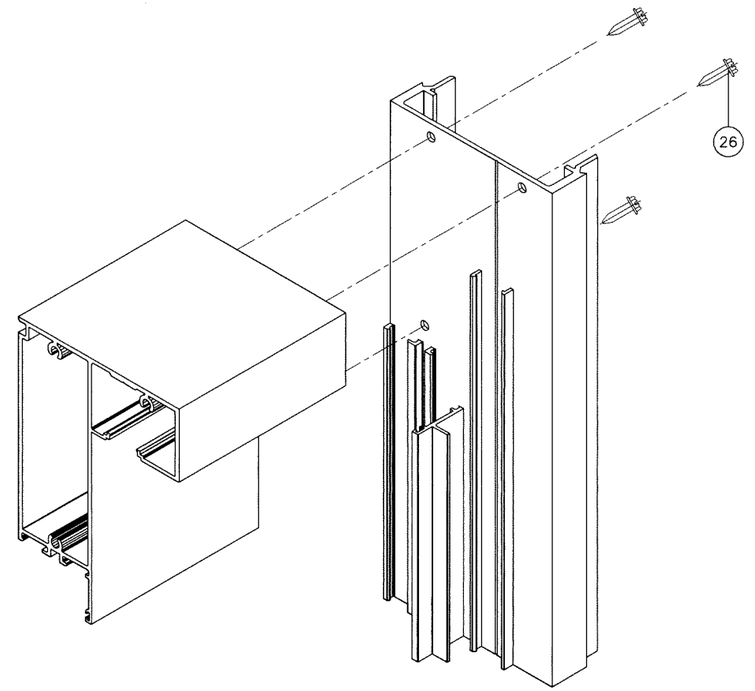
(30) WINDOW FRAME COVER



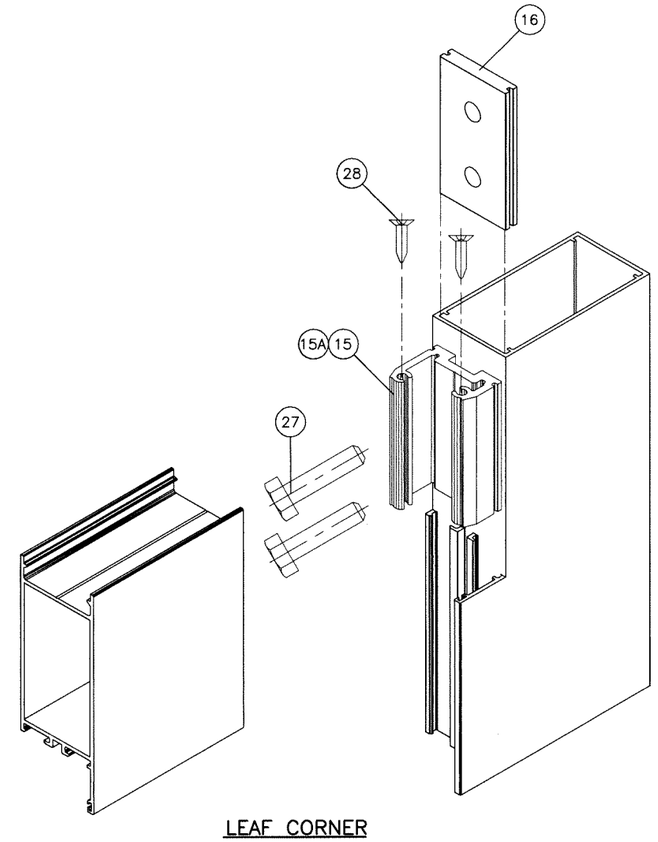
(31) WINDOW FRAME CORNER KEY



DOOR FRAME CORNER



SIDELITE FRAME CORNER



LEAF CORNER

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