

SHEET NO.	INDEX OF DRAWING DESCRIPTION
1	GENERAL NOTES, TESTED ELEVATION
2	APPROVED CONFIGURATIONS, GLAZING OPTIONS
3	SINGLE HUNG OVER FIXED WINDOW CAPACITY CHARTS
4	FIXED WINDOW CAPACITY CHARTS
4.1	JAMB AND MULLION CAPACITY CHARTS
5 THRU 7	VERTICAL AND HORIZONTAL SECTION DETAILS
8	BILL OF MATERIALS
9	EXTRUSION DETAILS
10	CORNER CONSTRUCTION DETAILS

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

MG-250 (S.M.I.)
ALUMINUM SINGLE HUNG WINDOW WALL SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

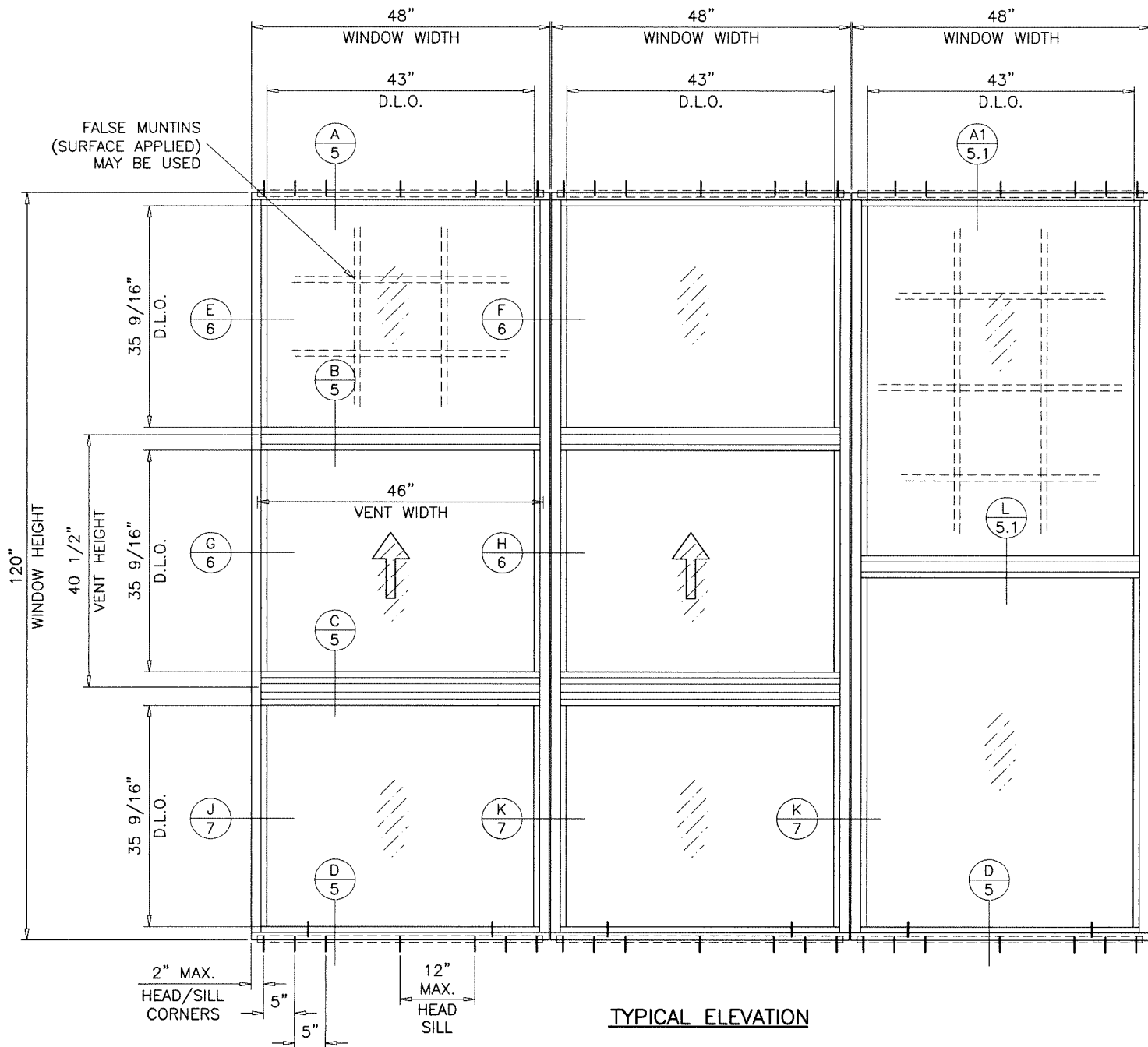
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.



TYPICAL ELEVATION

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1
WHEN USED AS A GUARD, VERIFY LIFE SAFETY REQUIREMENTS

LAMINATED GLASS
INSUL. LAM. GLASS
SMALL MISSILE IMPACT

Sealed: 7/17/2026

FL #32415

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
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MG-250 ALUM S.H./WINDOW WALL SYSTEM (S.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	description	by
	A	07.24.20	DESCRIBED TO 2020 FBC	
	B	07.18.23	UPDATED TO 2023 FBC	
	C	07.09.25	GENERAL REVISION	
	D	07.15.26	UPDATED TO 2026 FBC	

date: 05-04-20

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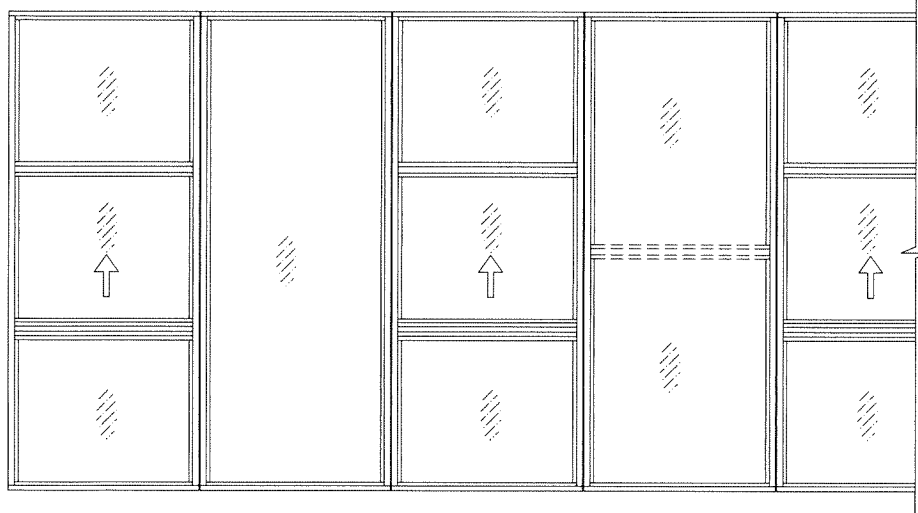
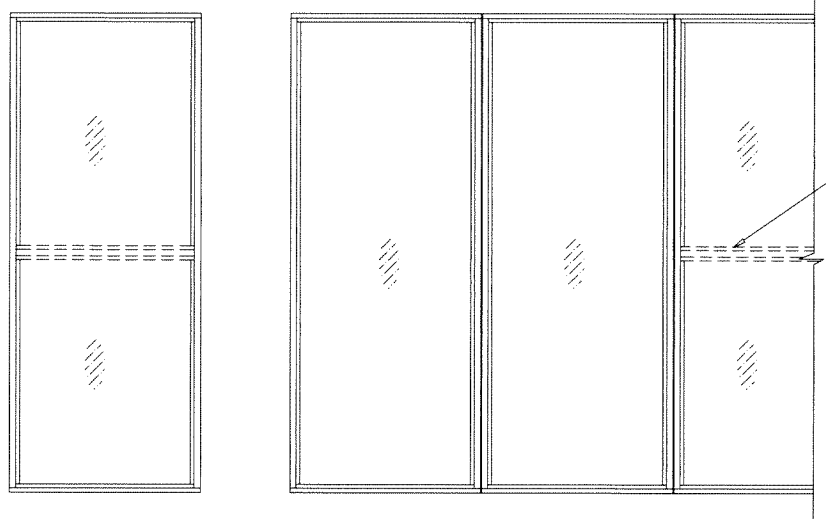
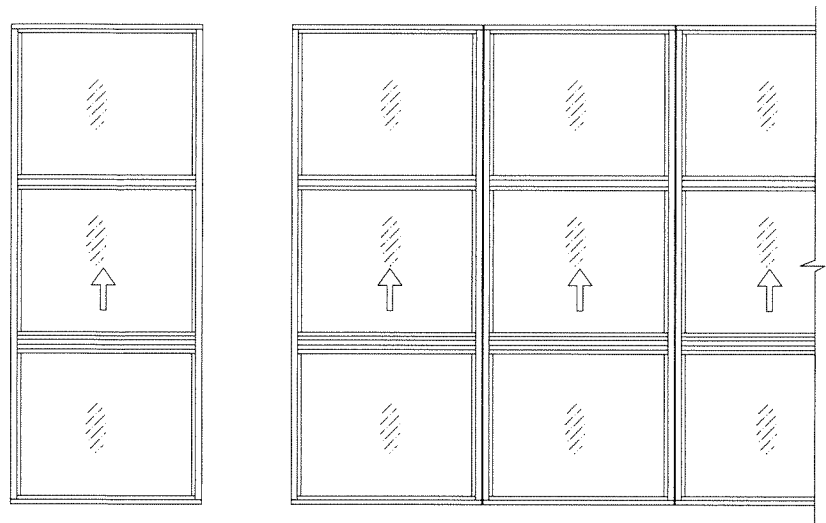
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chk. by:

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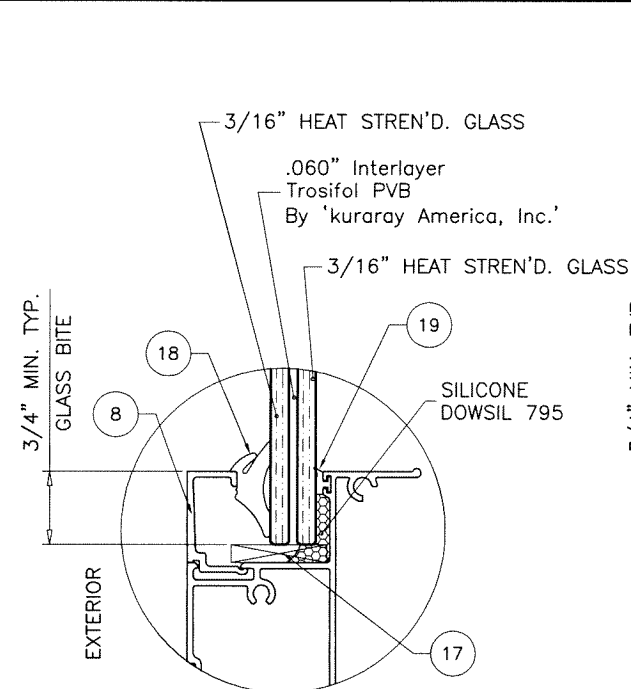
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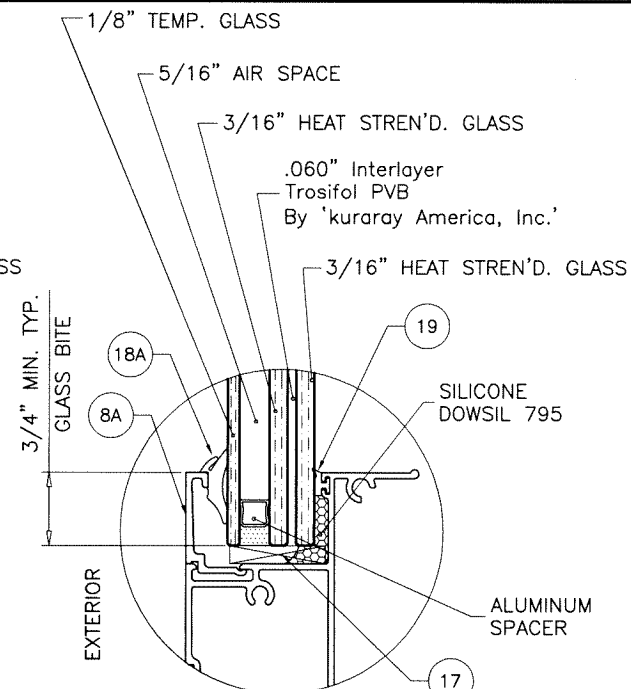


APPROVED CONFIGURATIONS

APPROVAL APPLIES TO
INDIVIDUAL UNITS OF SINGLE HUNG OVER FIXED WINDOWS.
INDIVIDUAL UNITS OF FIXED WINDOWS.
SIDE BY SIDE COMBINATIONS OF S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR MORE UNITS.
SIDE BY SIDE COMBINATIONS OF FIXED TO FIXED IN MODULES OF TWO OR MORE WINDOWS.
ANY COMBINATIONS OF S.H./FIX. TO FIXED IN MODULES OF TWO OR MORE WINDOWS.

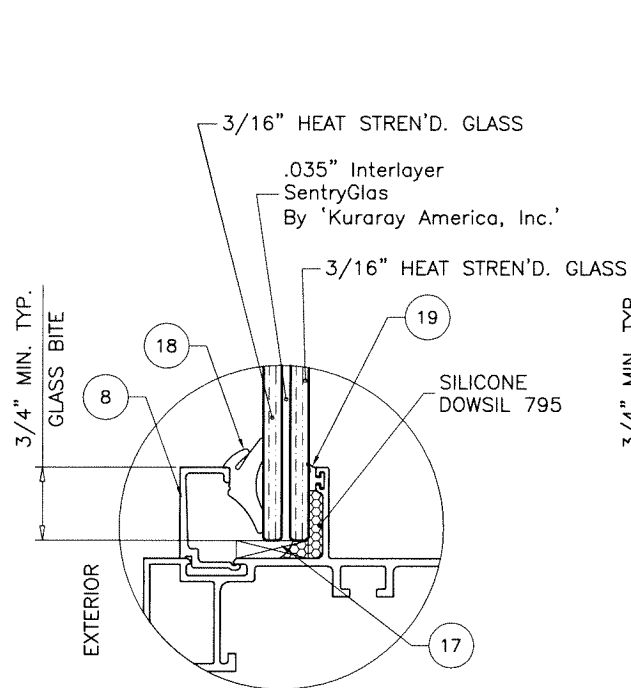


GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

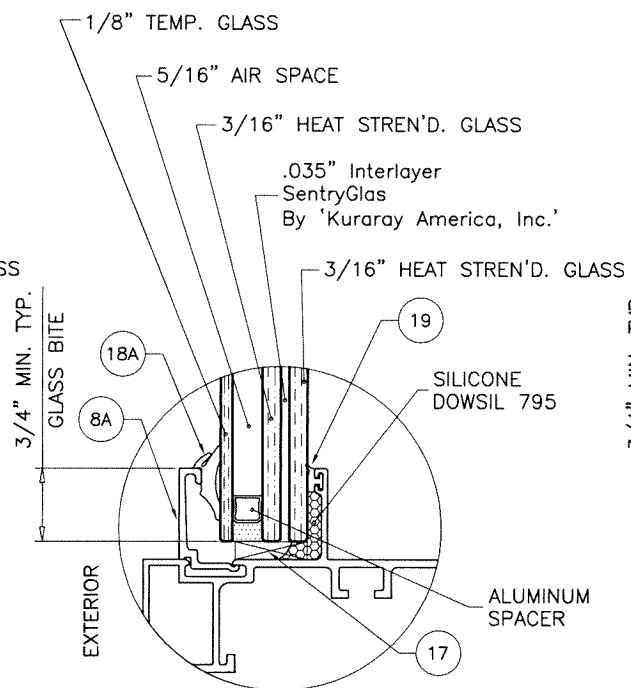


GLASS TYPE 'Ai'
7/8" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS S.H. OVER FIXED WINDOW

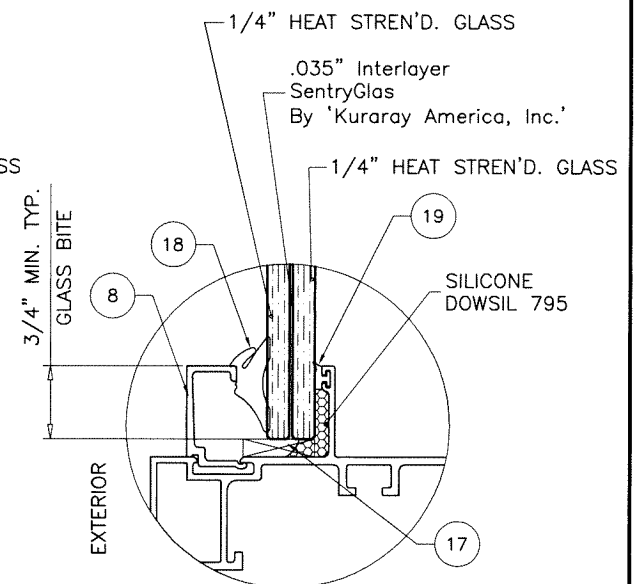


GLASS TYPE 'B'
7/16" OVERALL LAM. GLASS

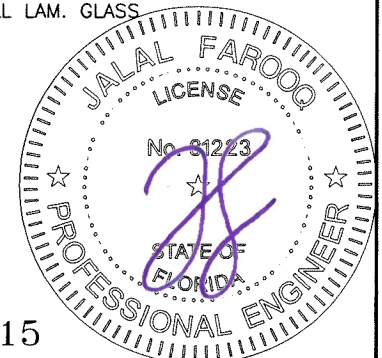


GLASS TYPE 'Bi'
7/8" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS FIXED WINDOW



GLASS TYPE 'C'
9/16" OVERALL LAM. GLASS



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MG-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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revisions:	no	date	by	description

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drawing no.
20-43F
sheet 2 of 10

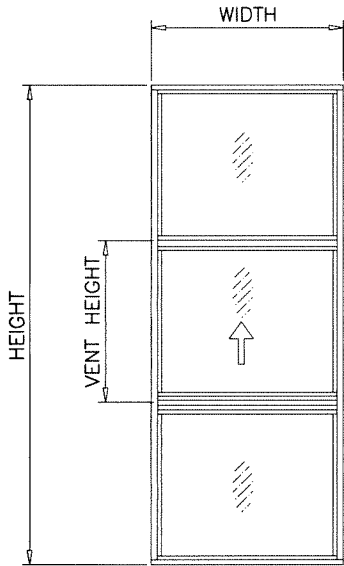
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DESIGN LOAD CAPACITY - PSF SINGLE HUNG OVER FIXED WINDOWS GLASS TYPES 'A' & 'Ai'						
WINDOW WIDTH	D.L.O. WIDTH	D.L.O. HEIGHT	VENT HEIGHT	TOTAL HEIGHT	EXT.(+)	1NT.(-)
48"	43"	35.5"	40.4"	120"	85.0	110.0
45"	40"	38.2"	43.1"	128.1"	85.0	110.0
42"	37"	41.3"	46.2"	137.4"	85.0	110.0
39"	34"	44.9"	49.8"	148.3"	85.0	110.0
36"	31"	49.2"	54.2"	161.3"	85.0	110.0

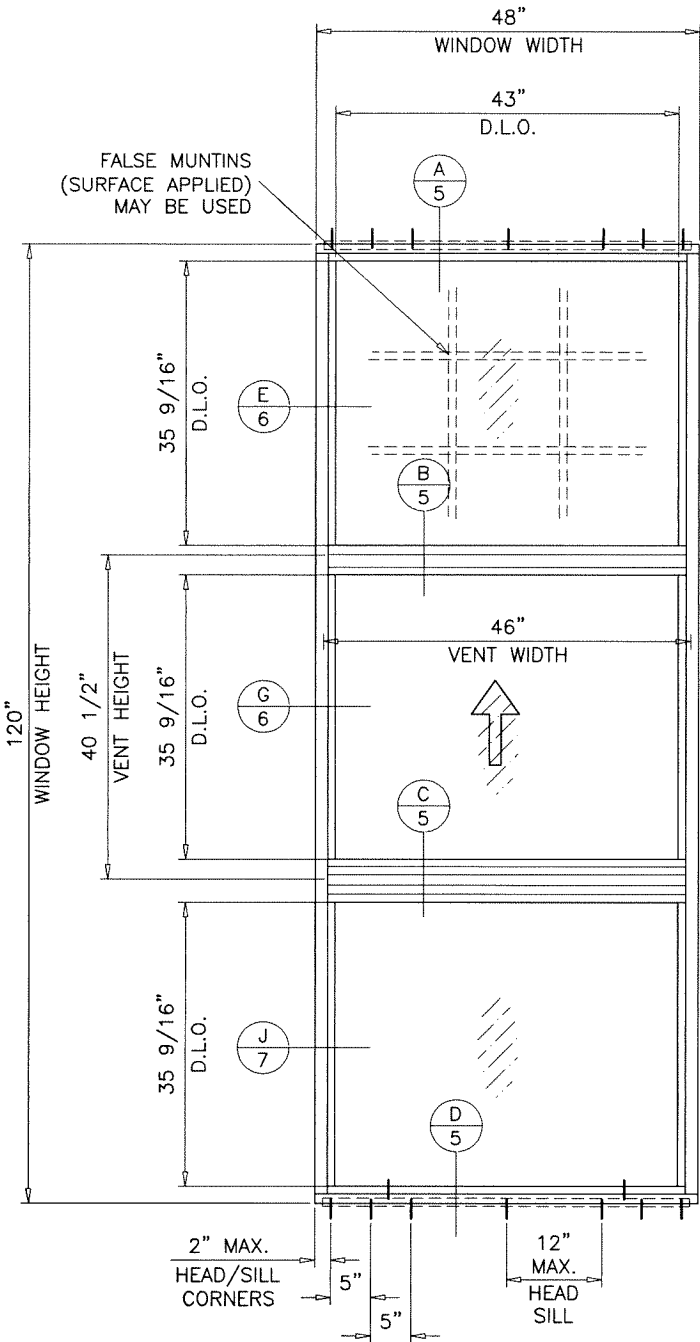
FOR HEIGHTS ABOVE 120" JAMB ANCHORS ARE REQUIRED
AT 6" FROM ENDS AND 10-1/4" O.C.
SEE SHEET 6 FOR DETAIL.

DESIGN LOAD CAPACITY – PSF SINGLE HUNG OVER FIXED WINDOWS GLASS TYPE 'A'								
WINDOW WIDTH	D.L.O. WIDTH	D.L.O. HEIGHT	VENT HEIGHT	TOTAL HEIGHT	FREE JAMBS		ANCHORED JAMBS	
					EXT.(+)	1NT.(–)	EXT.(+)	1NT.(–)
48”	43”	29.56”	34.5”	102”	85.0	130.0	85.0	130.0
45”	40”	31.78”	36.7”	108.7”	85.0	110.0	85.0	130.0
42”	37”	34.35”	39.3”	116.4”	85.0	110.0	85.0	130.0
40.75”	35.75”	35.56”	40.5”	120.0”	85.0	110.0	85.0	130.0
39”	34”	37.39”	42.3”	125.5”	–	–	85.0	130.0
36”	31”	40.89”	45.8”	136.0”	–	–	85.0	130.0
33”	28”	45.02”	50.0”	148.4”	–	–	85.0	130.0
30”	25”	49.96”	54.9”	163.2”	–	–	85.0	130.0

JAMB ANCHORS ARE REQUIRED
AT 6" FROM ENDS AND
10-1/4" O.C. FOR LOADS UP TO 110.0 PSF AND HEIGHTS ABOVE 120"
9-3/4" O.C. FOR LOADS ABOVE 110.0 PSF AND HEIGHTS ABOVE 102"
SEE SHEET 6 FOR DETAIL.



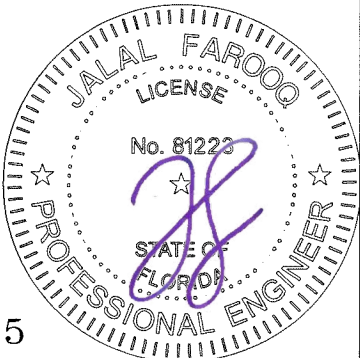
SINGLE HUNG OVER FIXED WINDOWS



TYPICAL ELEVATION

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Sealed: 7/17/2026



FL #32415

afC

AL-FAROOQ CORPORATION
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MG-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)

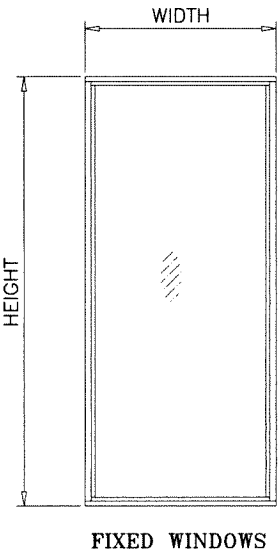
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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revisions:
no. date by description

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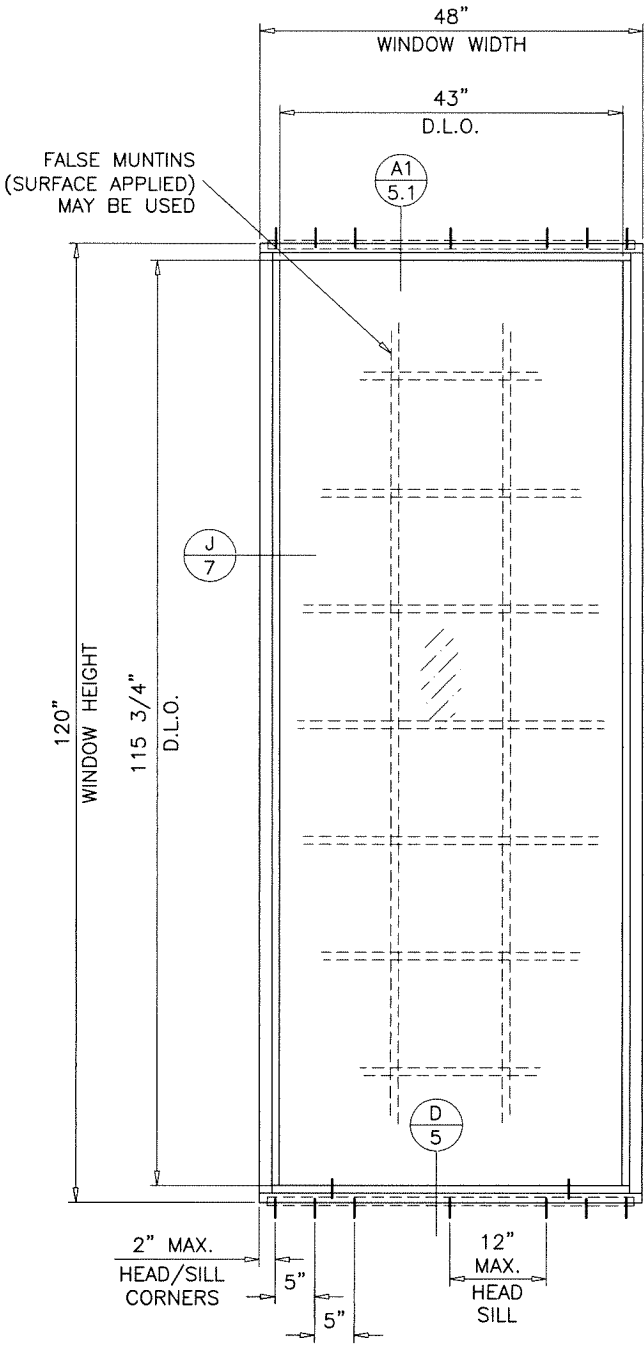
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sheet 3 of 10

DESIGN LOAD CAPACITY - PSF FIXED WINDOWS			
WINDOW DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	84"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
53"		77.0	99.6
54"		75.6	97.8
56"		72.9	94.3
60"		68.0	88.0
68"		60.0	77.6
36"	96"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
53"		77.0	99.6
54"		75.6	97.8
56"		72.9	94.3
60"		68.0	88.0
36"	102"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
53"		77.0	99.6
54"		75.6	97.8
56"		72.9	94.3
36"	108"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
53"		77.0	99.6
36"	114"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
36"	120"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0



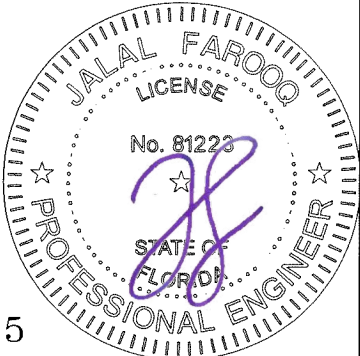
DESIGN LOAD CAPACITY - PSF FIXED WINDOWS			
WINDOW DIMS.		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	72"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4
60"		68.0	104.0
66"		61.8	94.5
68"		60.0	91.8
36"	84"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4
36"	96"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4
36"	102"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4
36"	114"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4
36"	120"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		81.6	124.8
53"		77.0	117.7
54"		75.6	115.6
56"		72.9	111.4

JAMB ANCHORS ARE REQUIRED
AT 6" FROM ENDS AND 9-3/4" O.C.
FOR LOADS ABOVE 110.0 PSF AND HEIGHTS ABOVE 102"
SEE SHEET 6 FOR DETAIL.



TYPICAL ELEVATION

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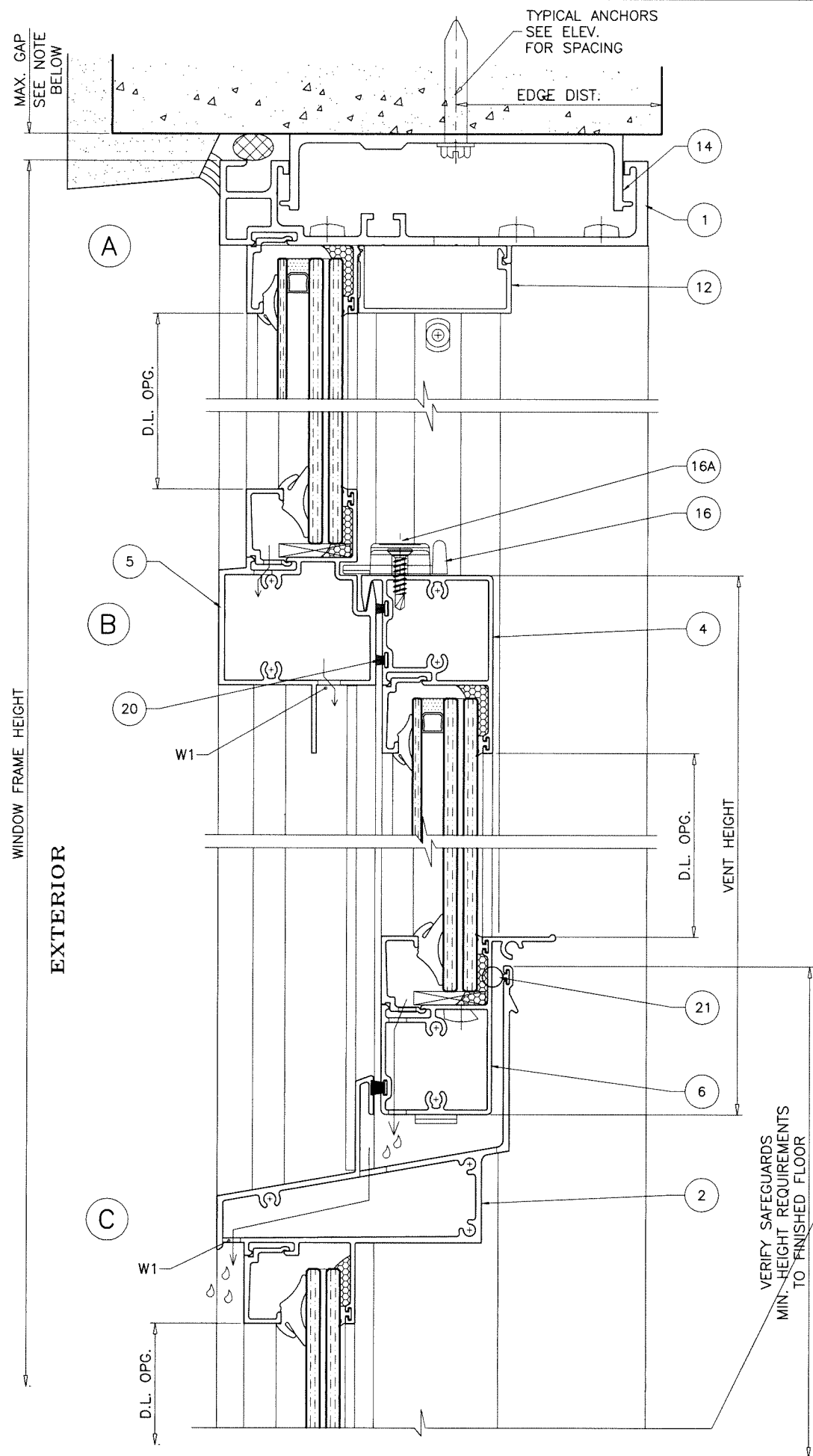
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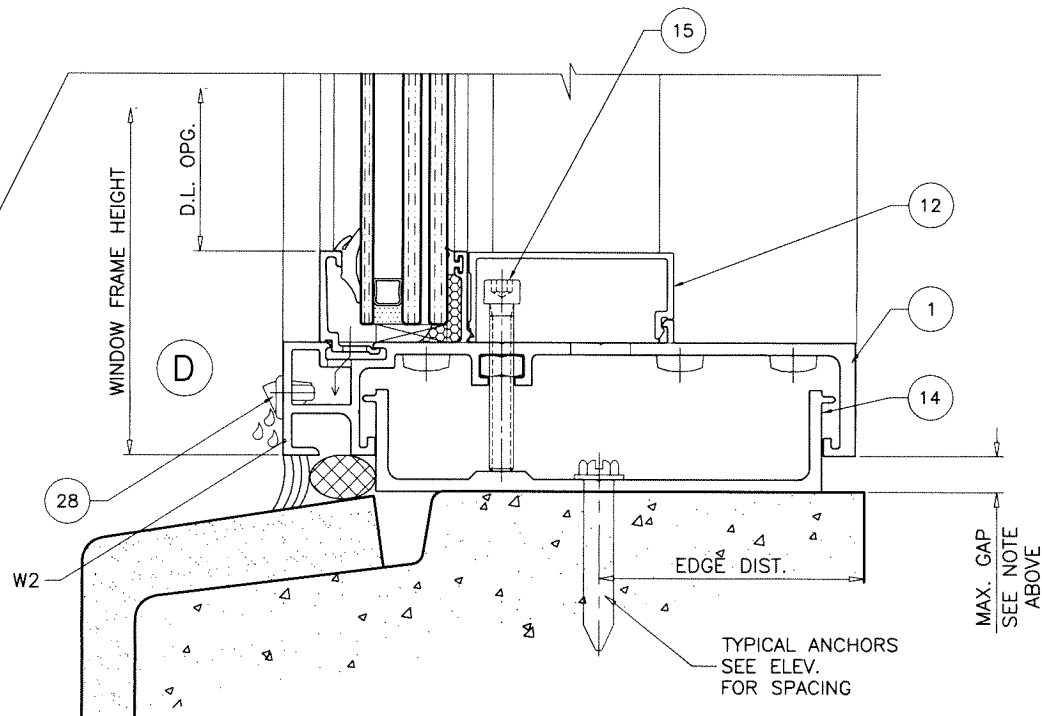
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20-43F
sheet 4 of 10



GAP AT HEAD/SILL:
 3/4" MAX. FOR HEIGHTS UP TO 102"
 3/8" MAX. FOR HEIGHTS ABOVE 102"



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

— AT HEAD/SILL —

5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO METAL STRUCTURES
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE = 2-5/16" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

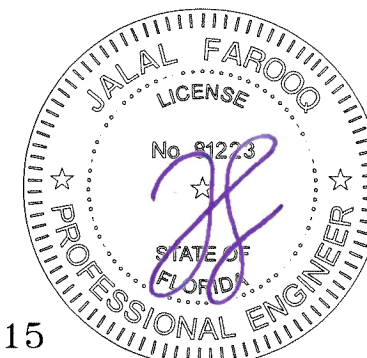
CONCRETE AT HEAD/SILL f'c = 3500 PSI MIN.

WEEPHOLES:

W1 = 3/8" X 1" WEEPHOLES AT 5"
 FROM EACH END

W2 = 3/8" X 1" WEEPHOLES AT 1-1/2"
 FROM EACH END

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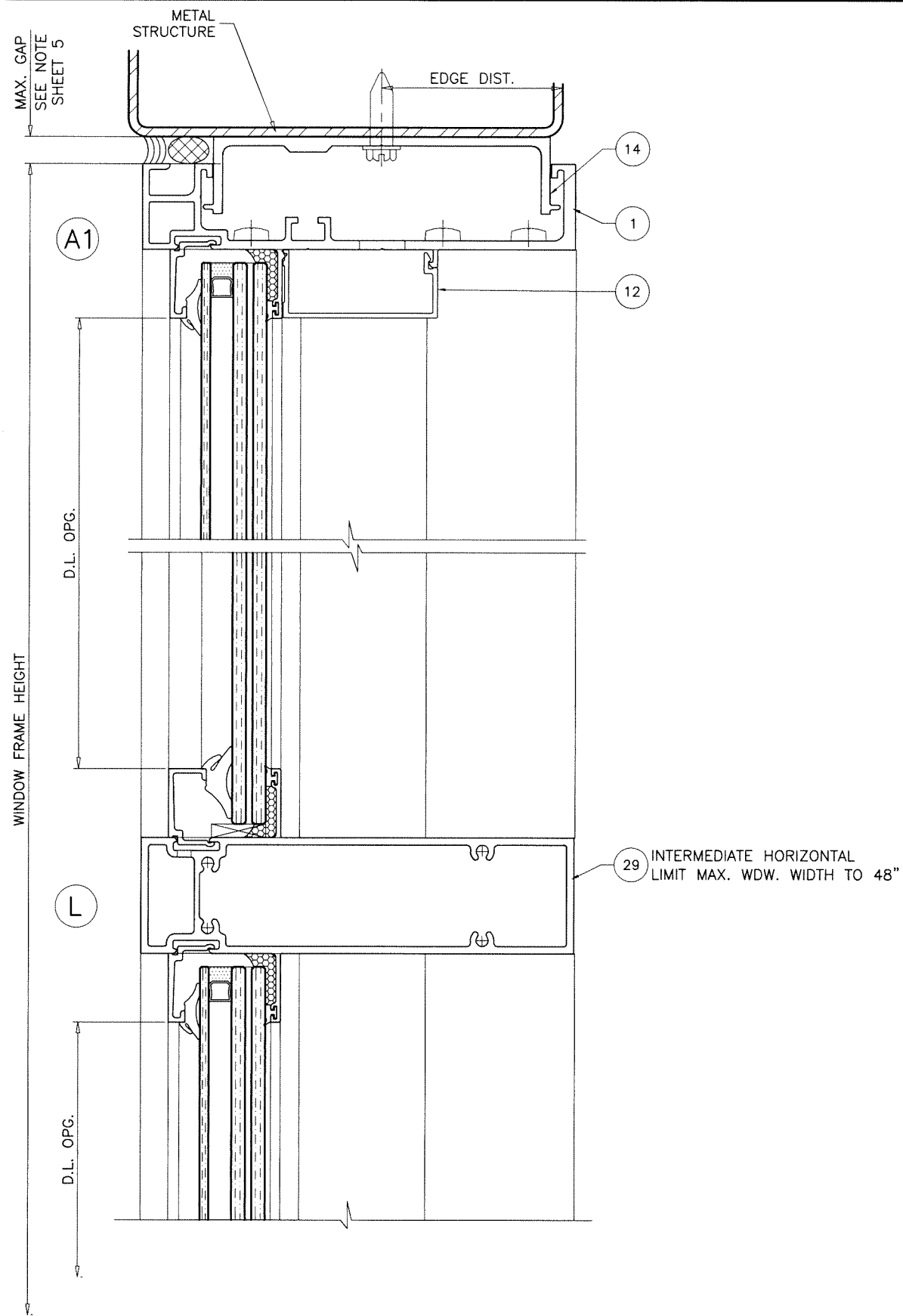
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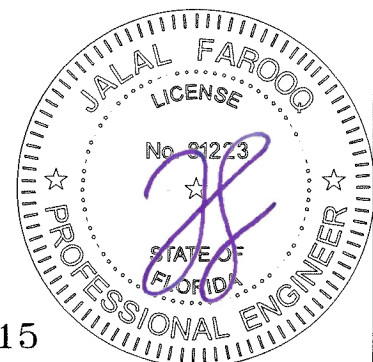
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revisions:		date		by description	
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96		96		96	
97		97		97	
98		98		98	
99		99		99	
100		100		100	

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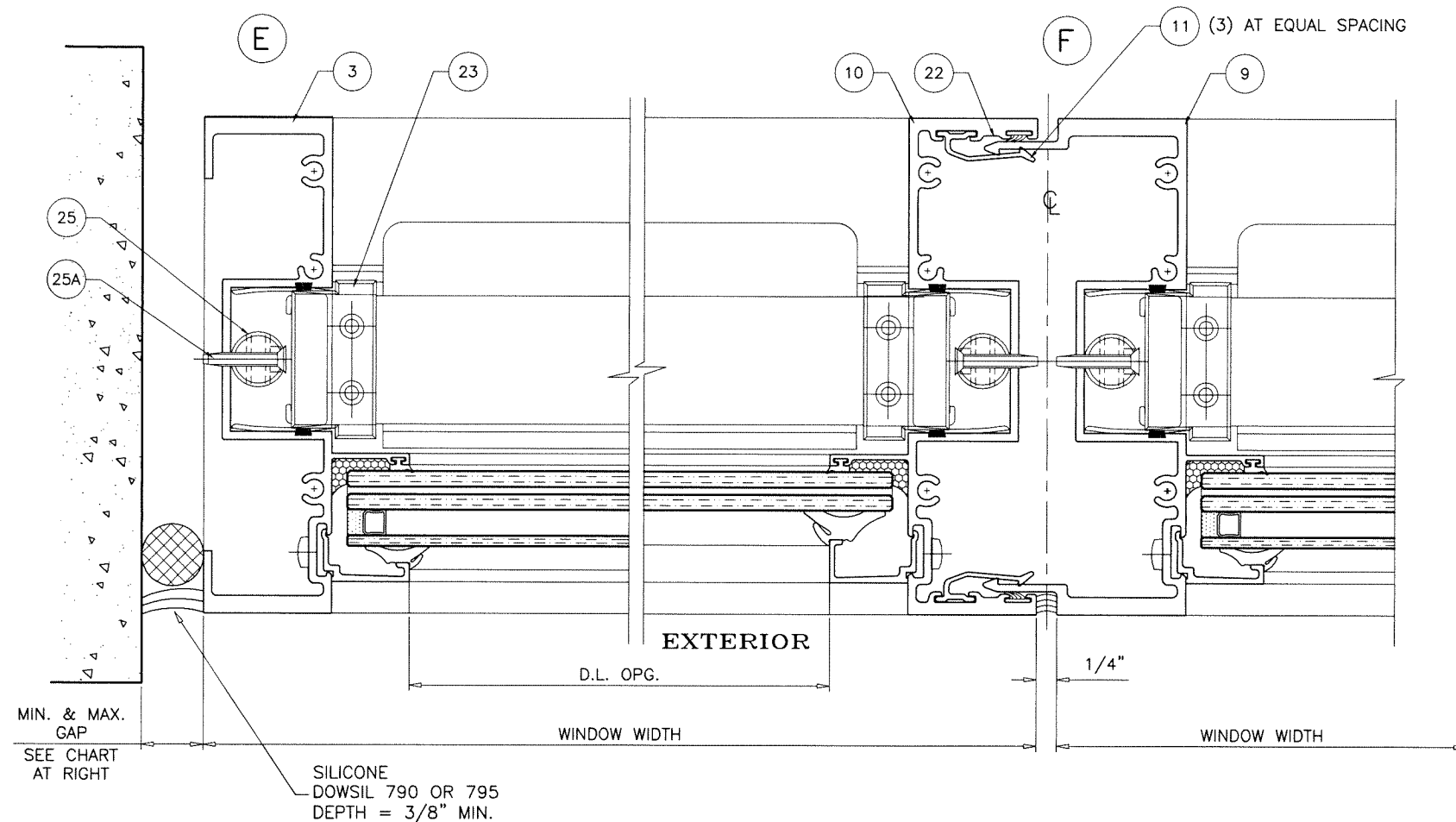


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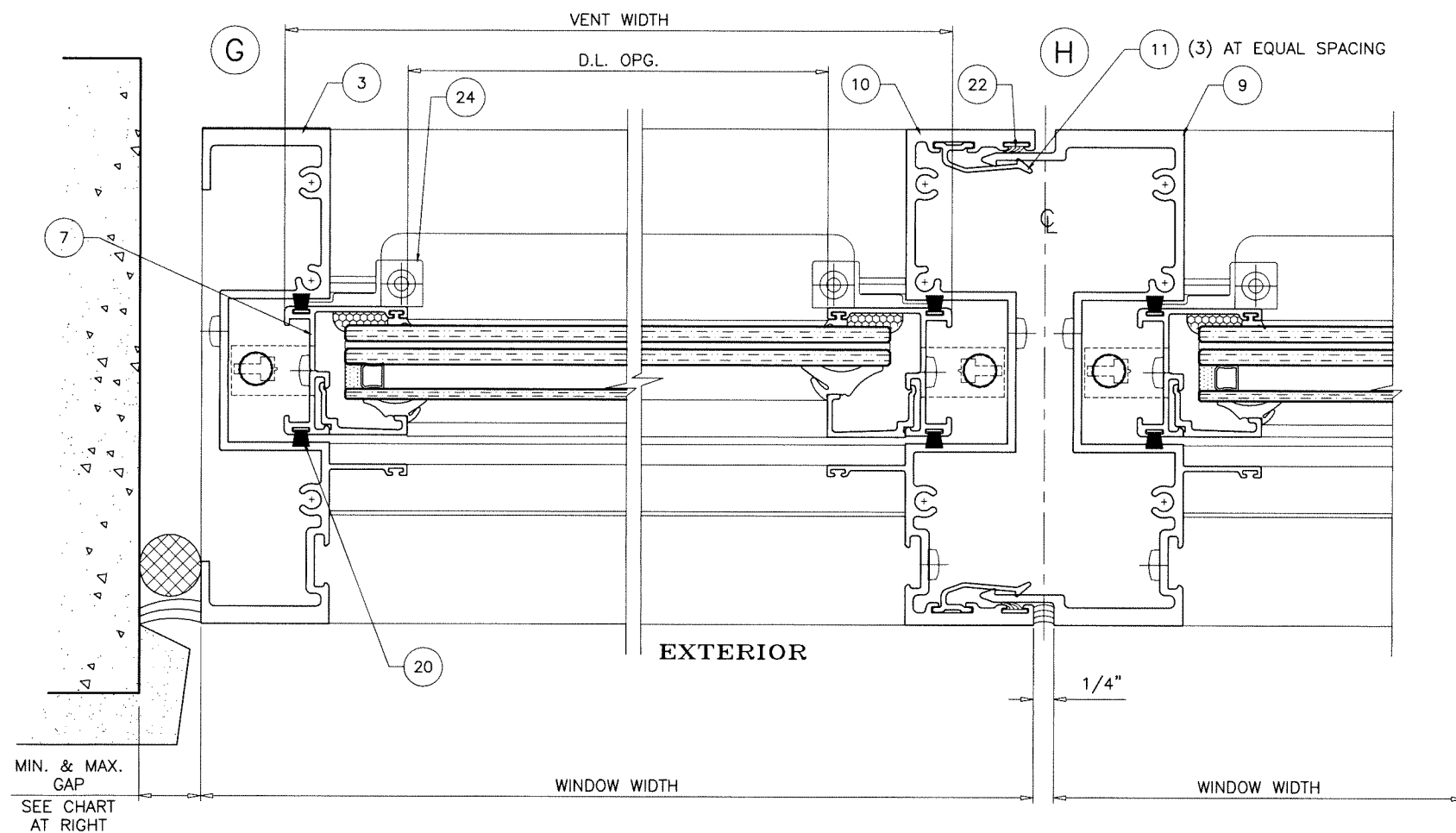


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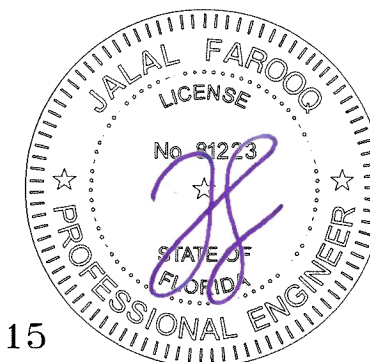
AL-FAROOQ CORPORATION ENGINEERS & PRODUCT DEVELOPMENT 9360 SUNSET DRIVE, SUITE 220 MIAMI, FLORIDA 33173 TEL. (305) 264-8100 FAX. (305) 262-6978 (C.A.N. 3538)		MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL. 33166 Tel. (305) 764-3963 Fax. (305) 470-8285																									
MG-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)		COMP-ANL\20-43F-MG																									
date: 05-04-20 scale: 1/2" = 1" dr. by: TARIQ chk. by:	drawing no. 20-43F	sheet 5.1 of 10	revisions: <table border="1"> <thead> <tr> <th>no</th> <th>date</th> <th>by</th> <th>description</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	no	date	by	description																				
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NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION
MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL
MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.
ALTERNATE SEALANTS AT JAMB AND JAMB GAPS OTHER THAN
THOSE IN CHART CAN BE DESIGNED BY ENGINEER OF RECORD
BASED ON MANUFACTURER GUIDE LINES.
GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY
THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.



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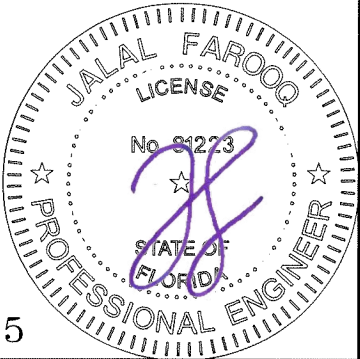


ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E250A	1	FRAME HEAD/SILL	6063-T6	-
2	E251	1	INTERMEDIATE SILL	6063-T6	-
3	E256	2	FRAME JAMB	6063-T6	-
4	E261	1	VENT TOP RAIL	6063-T6	-
5	E252	1	FIXED MTG. RAIL	6063-T6	-
6	E260	1	VENT BOTTOM RAIL	6063-T6	-
7	E262	2	VENT SIDE RAIL	6063-T6	-
8	E9003	AS RQD.	GLAZING BEAD (LAM. GLASS)	6063-T6	-
8A	E9002	AS RQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
9	E254	-	MALE MULLION	6063-T6	-
10	E255	-	FEMALE MULLION	6063-T6	-
11	E9007	AS REQD.	ANTI-BUCKLING CLIP, 4" LONG	6063-T6	-
12	E257	AS REQD.	HORIZONTAL COVER	6063-T6	-
13	E258	AS REQD.	VENT STOP AND VERTICAL COVER	6063-T6	-
14	E253	AS REQD.	ADJUSTABLE ANCHOR (LENGTH = WINDOW WIDTH - 2")	6005-T5	-
15	1/4-20 X 2"	2/VENT	ANTI-LIFT FASTENERS, AT 4-1/2" FROM EACH END	ST. STEEL	SOCKET SCEWS WITH HEX NUT
16	L20-01	2/VENT	SWEEP LATCH, AT 9" FROM ENDS	ZAMAK	-
16A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
17	G25-08	AS REQD.	SETTING BLOCKS, AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
18	G6-01	AS REQD.	EXTERIOR WEDGE GASKET (LAM. GLASS)	EPDM	DUROMETER 70±5 SHORE A
18A	G10-04	AS REQD.	EXTERIOR WEDGE GASKET (INSUL. LAM. GLASS)	EPDM	DUROMETER 70±5 SHORE A
19	G25-01	AS REQD.	INTERIOR SPACER	SANTOPRENE	DUROMETER 80±5 SHORE A
20	G25-02	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
21	G25-03	AS REQD.	BOTTOM RAIL SEAL	FOAM/VINYL	-
22	G30-02	AS REQD.	AIR SEAL	SANTOPRENE	-
23	M25-01	2/ VENT	VENT TOP GUIDE	DERLIN	M&M PLASTICS
24	M25-02	4/ VENT	VENT BOTTOM GUIDE	DERLIN	M&M PLASTICS
24A	#8 X 5/8"	1/ GUIDE	VENT GUIDE INST. FASTENERS	CRS	FH SMS TYPE B
25	M20-03/M20-04	2/VENT	ULTRALIFT SPIRAL BALANCE	-	CALDWELL
25A	#8 X 1"	1/ BALANCE	BALANCE INST. FASTENERS	ST. STEEL	PH SMS
26	#14 X 2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	PH SMS
27	#10 X 1-1/2"	AS REQD.	VENT ASSEMBLY FASTENERS	ST. STEEL	PH SMS
28	G2-01	2	HI-FLOW WEEPER	-	-
29	E259	AS REQD.	INTERMEDIATE HORIZONTAL	6063-T6	-
30	-	-	-	-	-

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
DOWSIL 795 SEALANT.

Sealed: 7/17/2026



FL #32415

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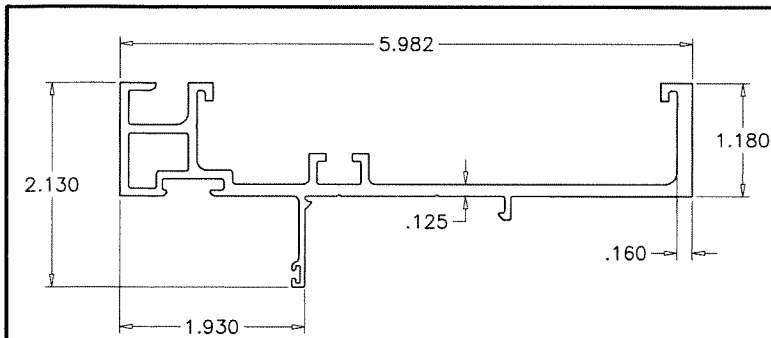
AL-FAROOQ CORPORATION
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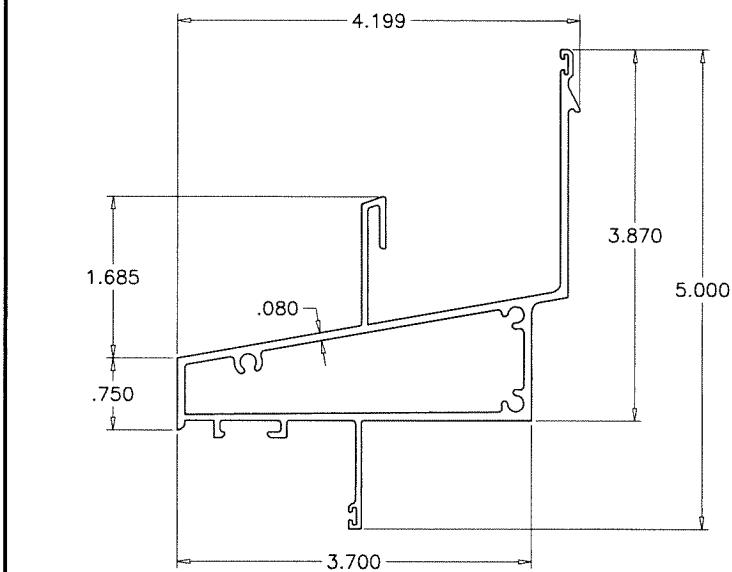
MG-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)

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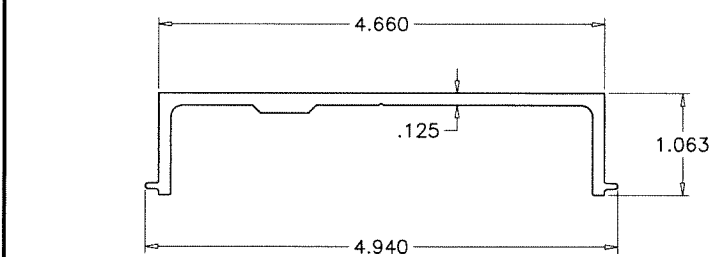
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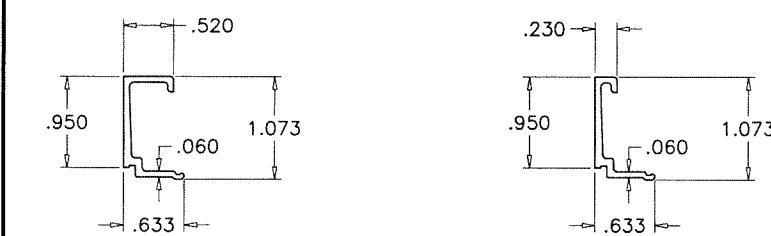
① FRAME HEAD/SILL



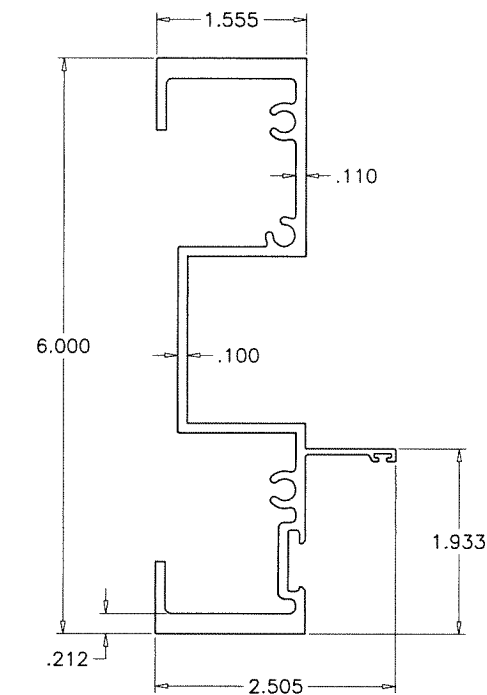
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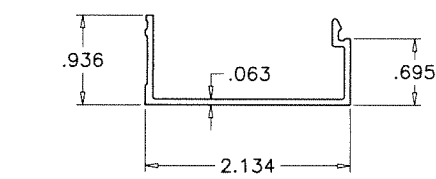
⑭ ADJUSTABLE ANCHOR



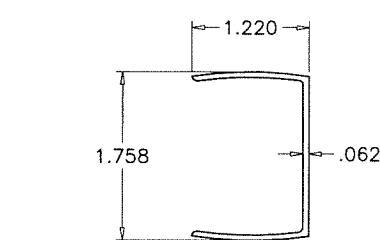
⑧ GLAZING BEADS



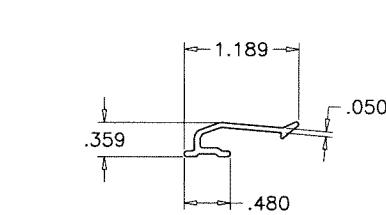
③ FRAME JAMB



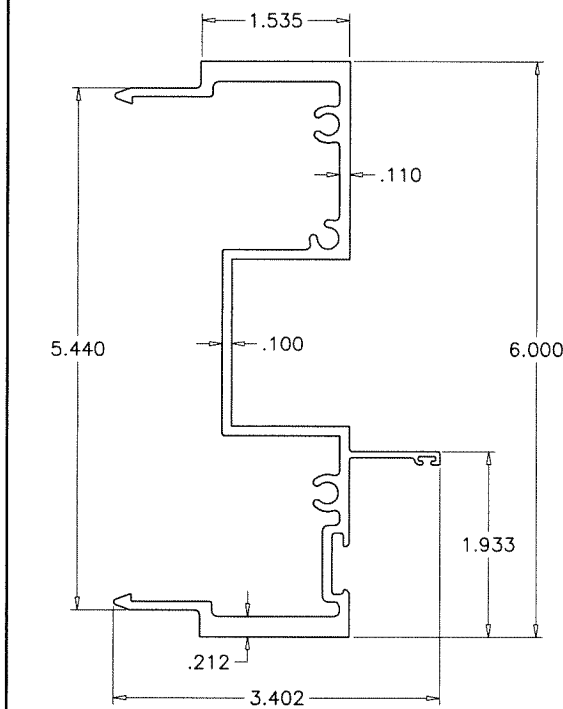
⑫ HORIZONTAL COVER



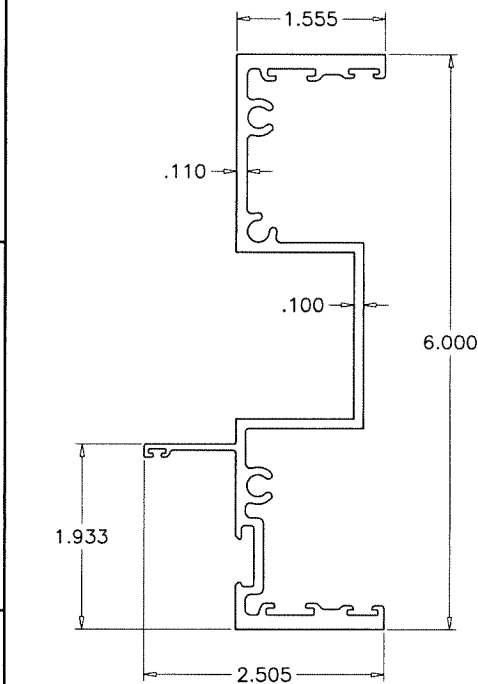
⑬ VENT STOP & VERTICAL COVER



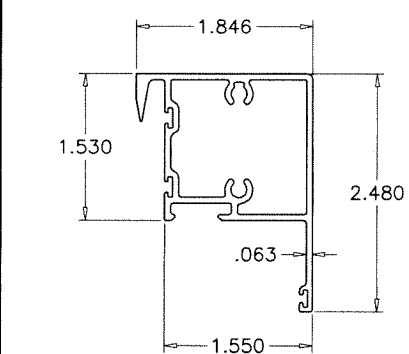
⑪ ANTI-BUCKLING CLIP



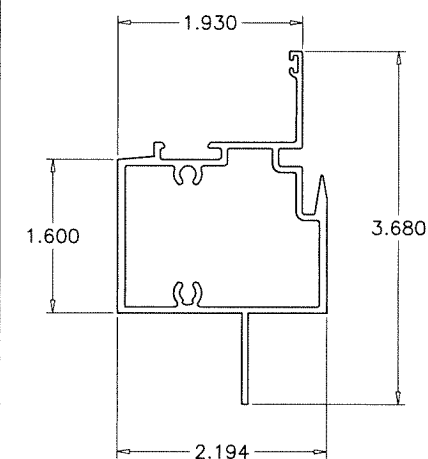
⑨ MALE MULLION



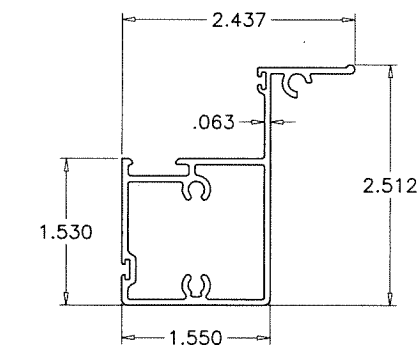
⑩ FEMALE MULLION



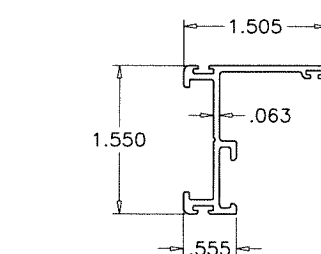
④ VENT TOP RAIL



⑤ FIX. MEETING RAIL



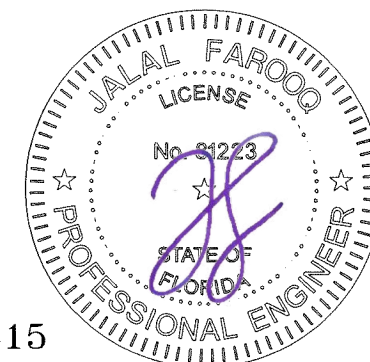
⑥ VENT BOTTOM RAIL



⑦ VENT SIDE RAIL

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FL #32415



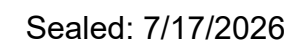
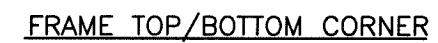
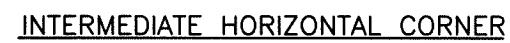
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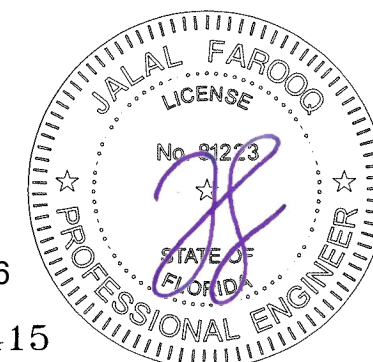
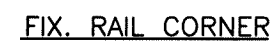
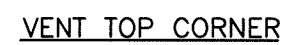


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