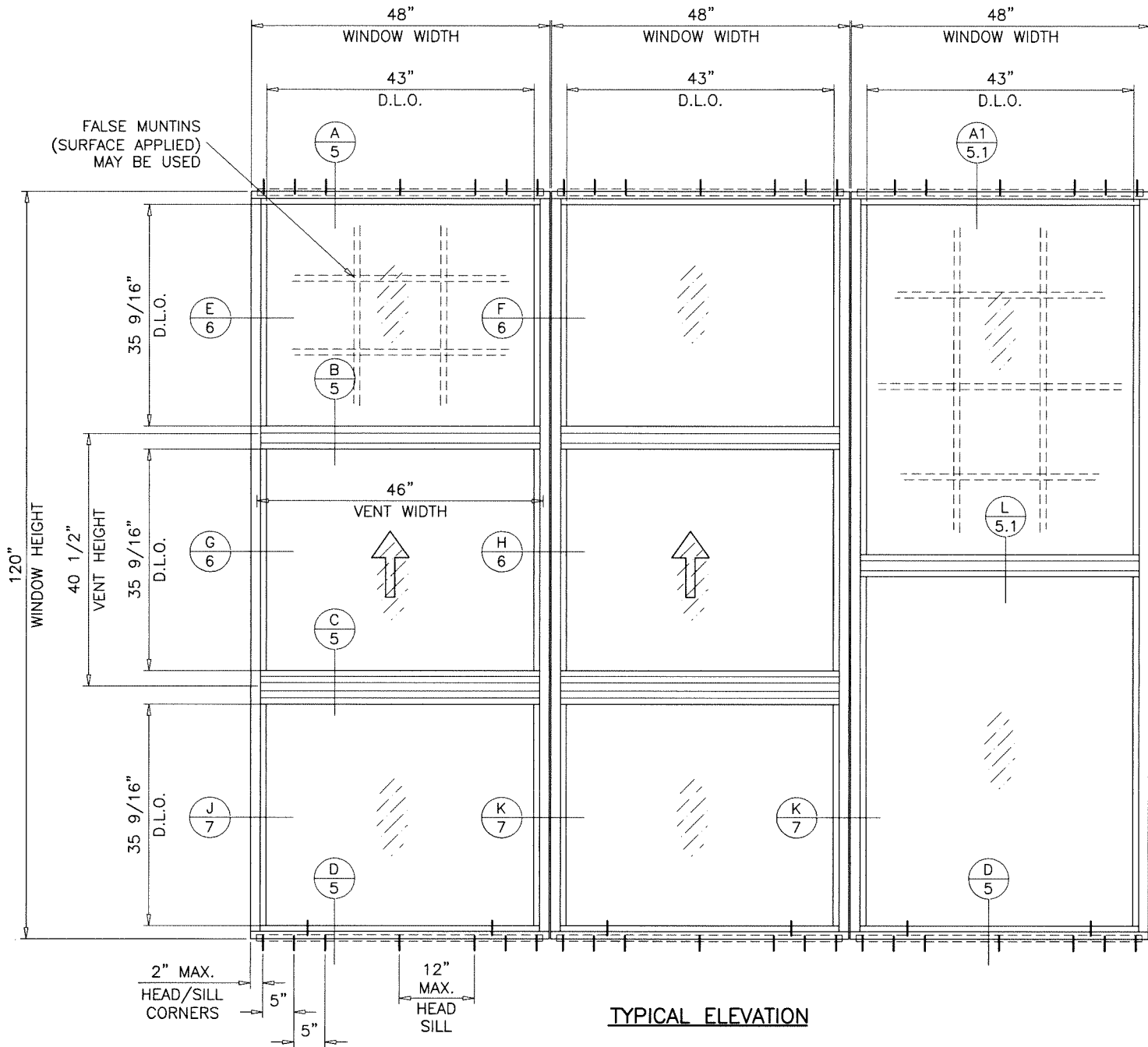


SHEET NO.	INDEX OF DRAWING DESCRIPTION
1	GENERAL NOTES, TESTED ELEVATION
2	APPROVED CONFIGURATIONS, GLAZING OPTIONS
3	SINGLE HUNG OVER FIXED WINDOW CAPACITY CHARTS
4	FIXED WINDOW CAPACITY CHARTS
4.1	JAMB AND MULLION CAPACITY CHARTS
5 THRU 7	VERTICAL AND HORIZONTAL SECTION DETAILS
8	BILL OF MATERIALS
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) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

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

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

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

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'. MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

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: 8/8/2025

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
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-6978

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

no	date	description	by
A	07.24.20	UPDATED TO 2020 FBC	
B	07.18.23	UPDATED TO 2023 FBC	
C	07.09.25	GENERAL REVISION	

date: 05-04-20

scale: 1/2"=1'-0"

dr. by: TARIQ

chk. by:

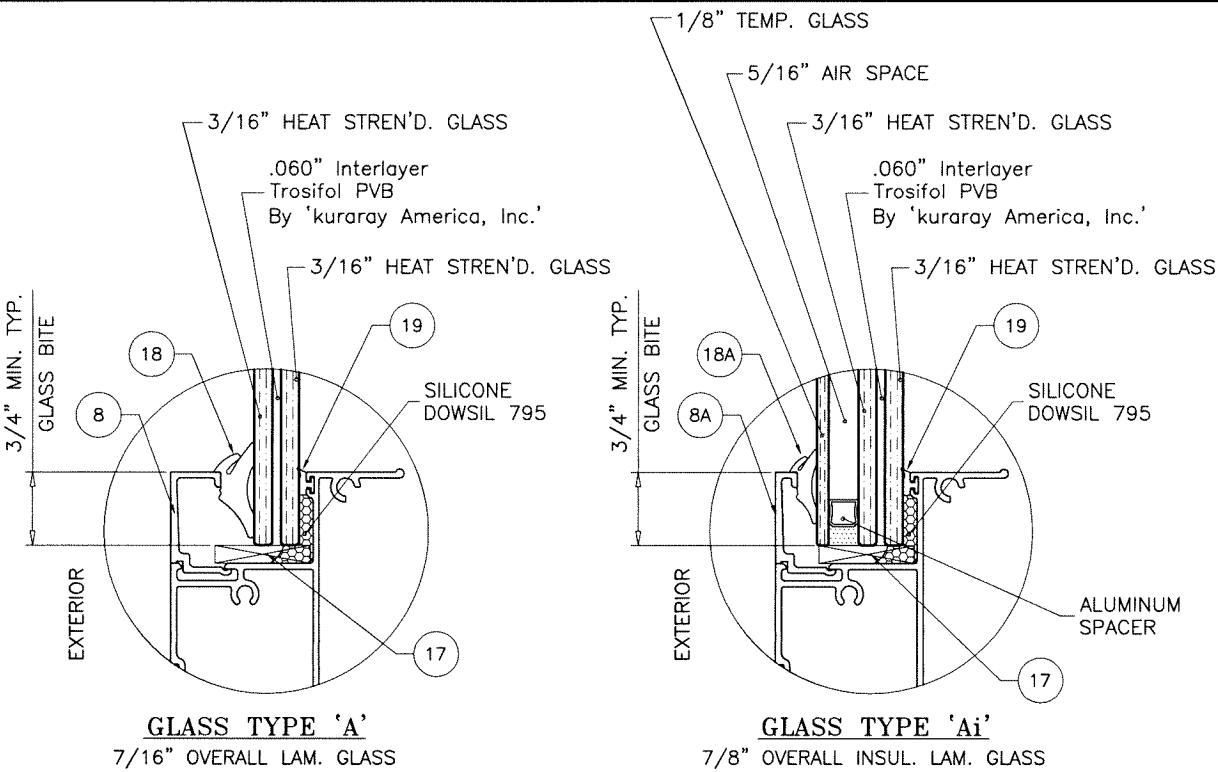
drawing no.

20-43F

sheet 1 of 10

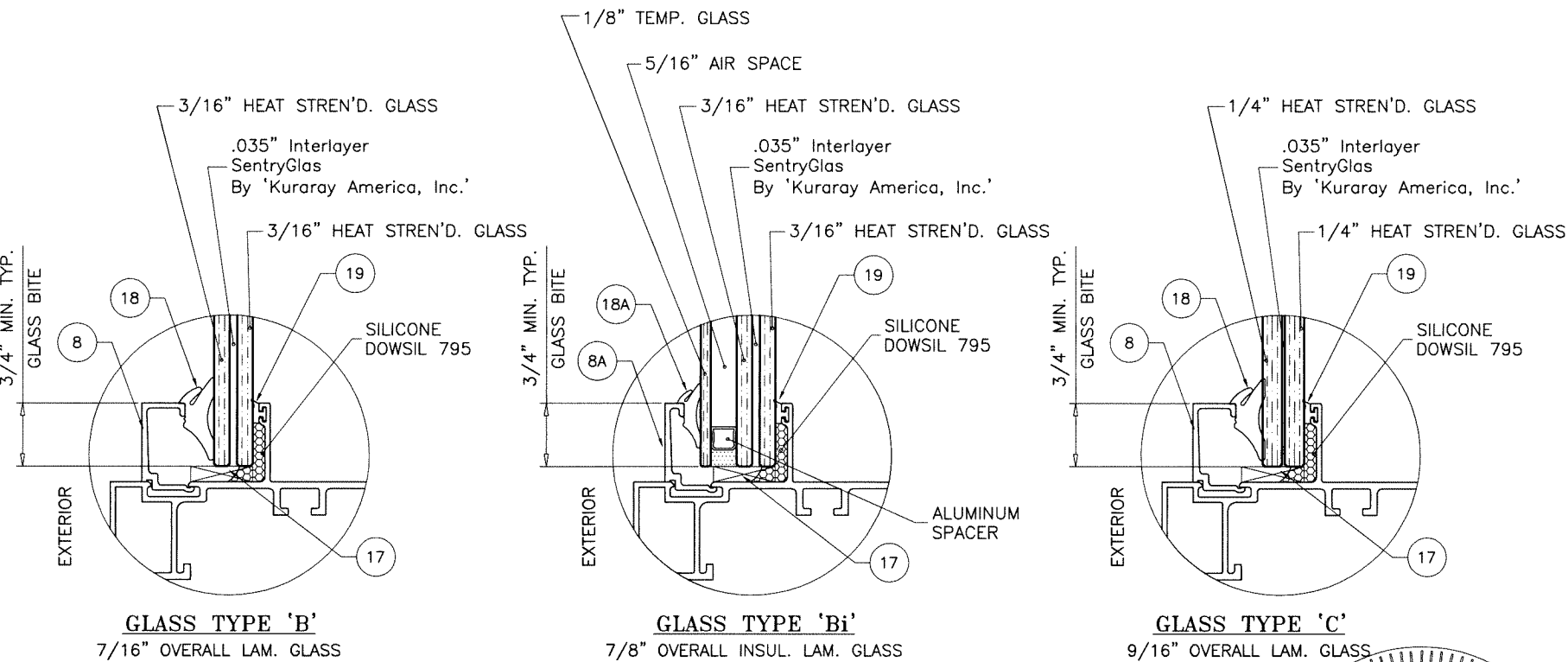


APPROVAL APPLIES TO
INDIVIDUAL UNITS OF SINGLE HUNG OVER FIXED WINDOWS.
INDIVIDUAL UNITS OF FIXED WINDOWS.
SIDE BY SIDE COMBINATIONS OF S.H./FIX. TO S.H./FIX. IN MODULES OF TWO OR MORE UNITS.
SIDE BY SIDE COMBINATIONS OF FIXED TO FIXED IN MODULES OF TWO OR MORE WINDOWS.
ANY COMBINATIONS OF S.H./FIX.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



GLAZING OPTIONS

S.H. OVER FIXED WINDOW

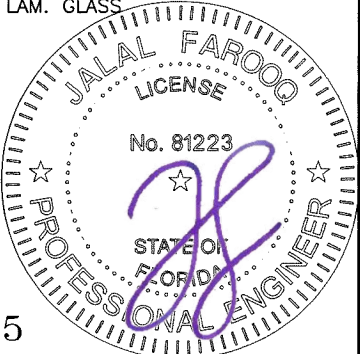


GLAZING OPTIONS

FIXED WINDOW

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FL #32415



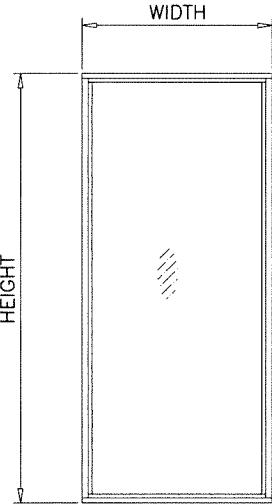
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DESIGN LOAD CAPACITY - PSF FIXED WINDOWS			
WINDOW DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
36"	84"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		81.6	105.6
53"		77.0	99.6
54"		75.6	97.8
56"		72.9	94.3
60"		68.0	88.0
68"		60.0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

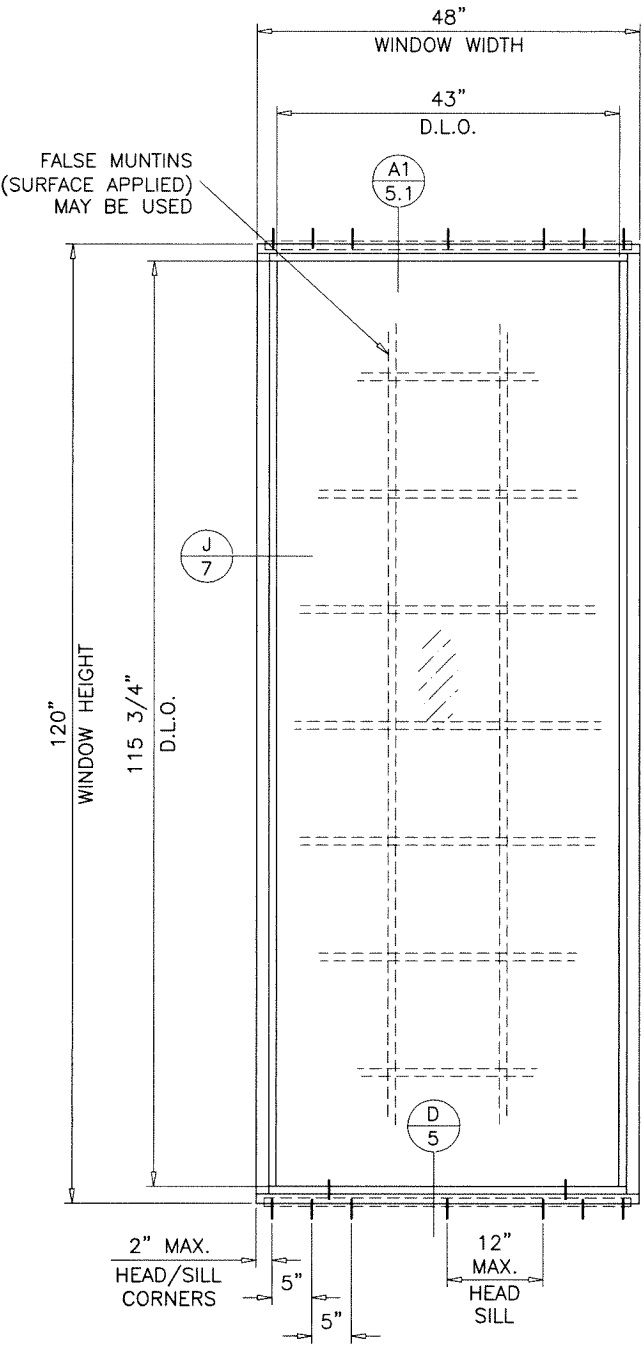


FIXED WINDOWS

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"	84"	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
36"	102"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
36"	114"	85.0	130.0
42"		85.0	130.0
36"	120"	85.0	130.0

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.

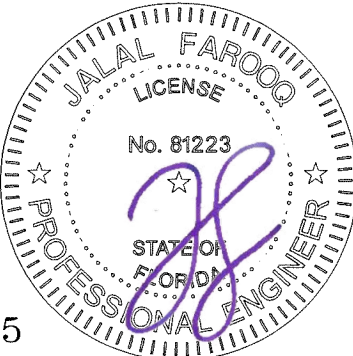
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).



TYPICAL ELEVATION

Sealed: 8/8/2025

FL #32415



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

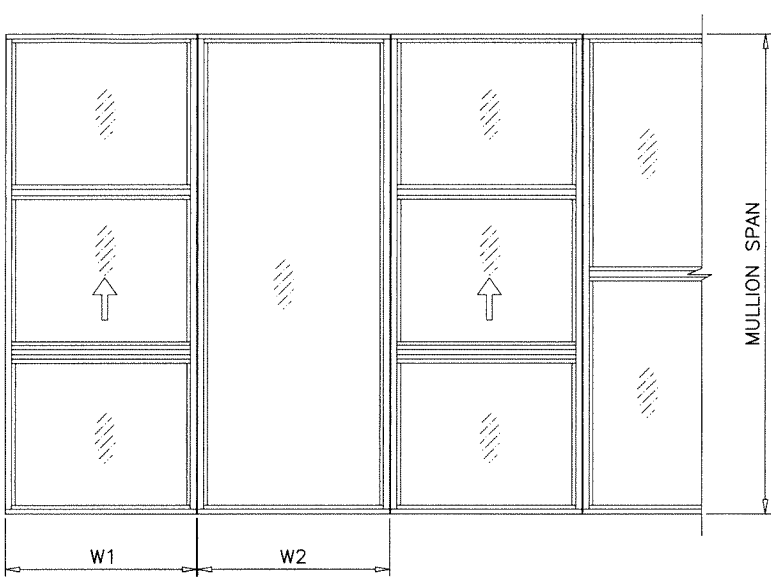
MC-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:

no	date	by	description

date: 05-04-20	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. 20-43F		sheet 4 of 10	

JAMB/MULLION LOAD CAPACITY - PSF			
WINDOW DIMS.		JAMB/MULLION	
WIDTH (W)	MULL SPAN	EXT.(+)	INT.(-)
36"	84"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		85.0	130.0
53"		85.0	130.0
54"		85.0	130.0
56"		85.0	130.0
60"		85.0	110.0
68"		85.0	110.0
36"	96"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		85.0	130.0
53"		85.0	110.0
54"		85.0	110.0
56"		85.0	110.0
60"		85.0	110.0
36"	102"	85.0	130.0
42"		85.0	130.0
48"		85.0	130.0
50"		85.0	110.0
53"		85.0	110.0
54"		85.0	110.0
56"		85.0	110.0
60"		85.0	110.0
36"	108"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		85.0	110.0
53"		85.0	110.0
36"	114"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0
50"		85.0	110.0
36"	120"	85.0	110.0
42"		85.0	110.0
48"		85.0	110.0

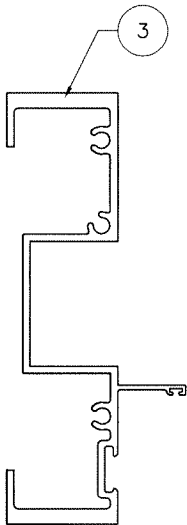


SINGLE HUNG/FIXED WINDOWS
FIXED WINDOWS

WIDTH (W) =

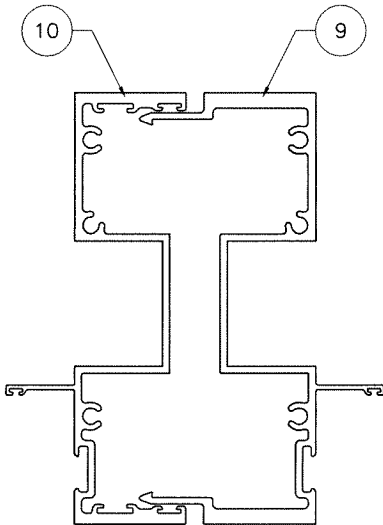
W1 + W2

2



JAMB

Ix IN ⁴	Sx IN ³
8.671	2.875



MULLION

Ix IN ⁴	Sx IN ³
16.903	5.592

SEE SHEET 3 FOR DESIGN LOAD CAPACITY OF
SINGLE HUNG OVER FIXED WINDOWS.

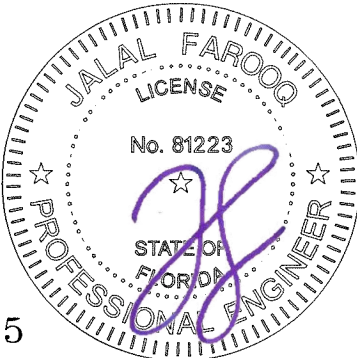
SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY
OF FIXED WINDOW.

REFER TO CHARTS ABOVE TO OBTAIN JAMB AND MULLION CAPACITIES.

USE LOWEST VALUES OF WINDOW CAPACITY CHARTS OR JAMB/MULLION
CAPACITY CHART.

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FL #32415



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COMP-ANL\20-43F-MG

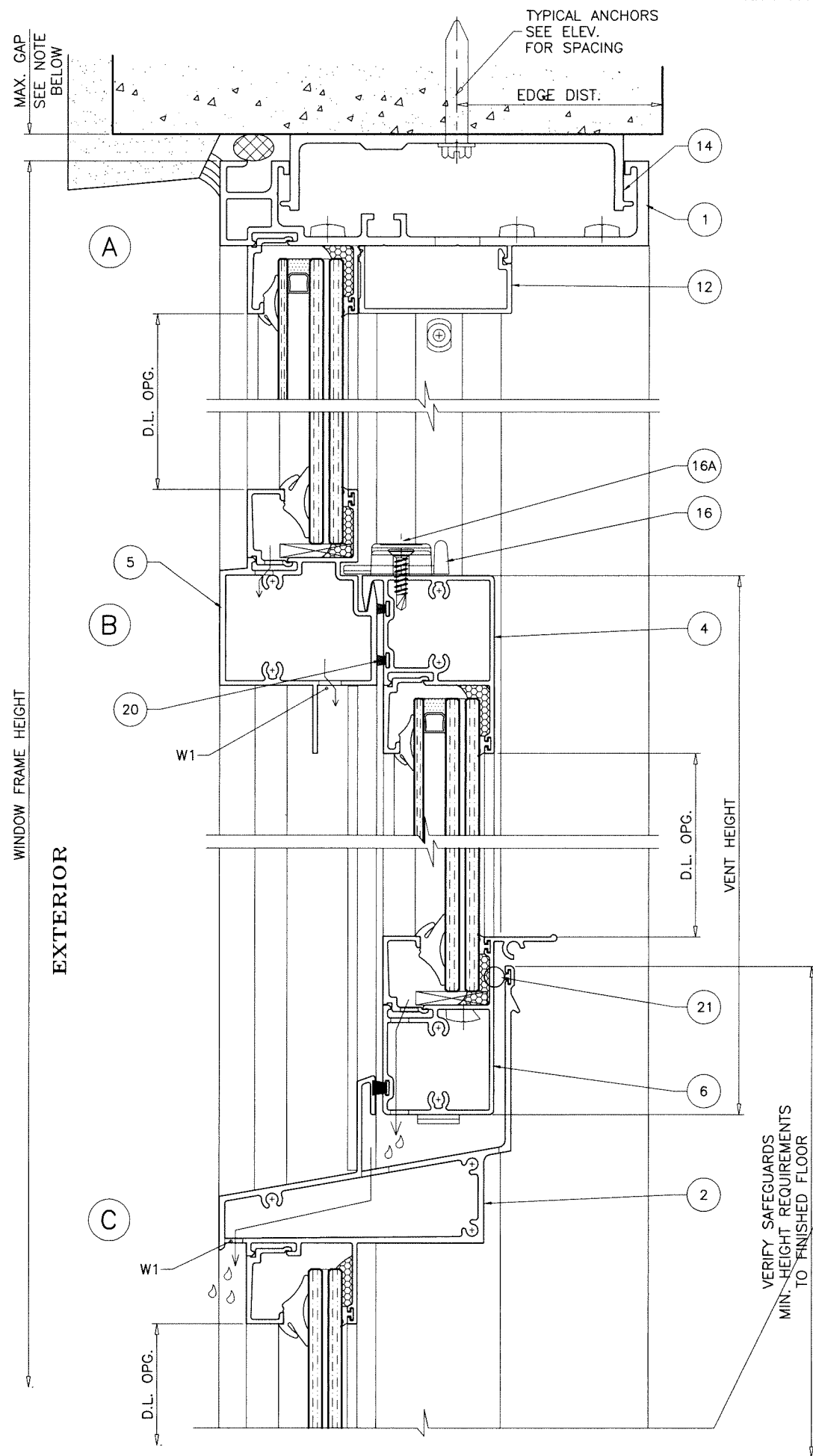
MC-250 ALUM S.H./WINDOW WALL SYSTEM (S.M.I.)

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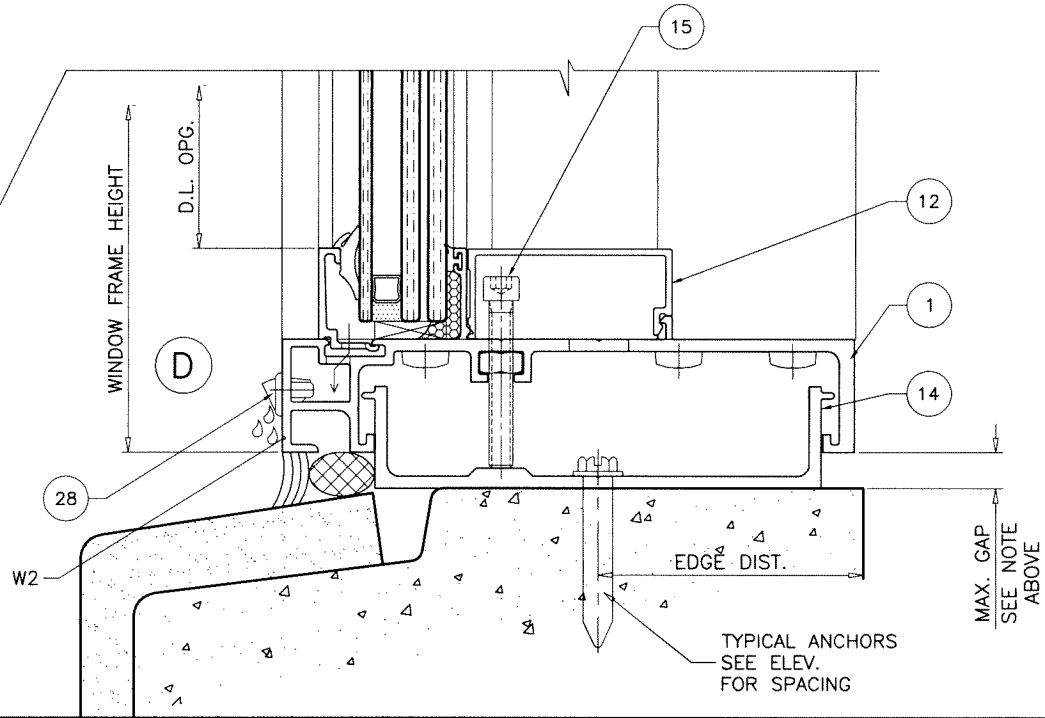
revisions:	
no	date by description

date: 05-04-20
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:

drawing no.
20-43F
sheet 4.1 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.

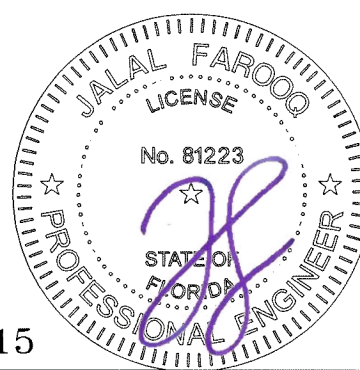
CONCRETE AT HEAD/SILL f'c = 3500 PSI MIN.

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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FL #32415

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 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
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 (C.A.N. 3538)

COMP-ANL\20-43F-MG

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

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 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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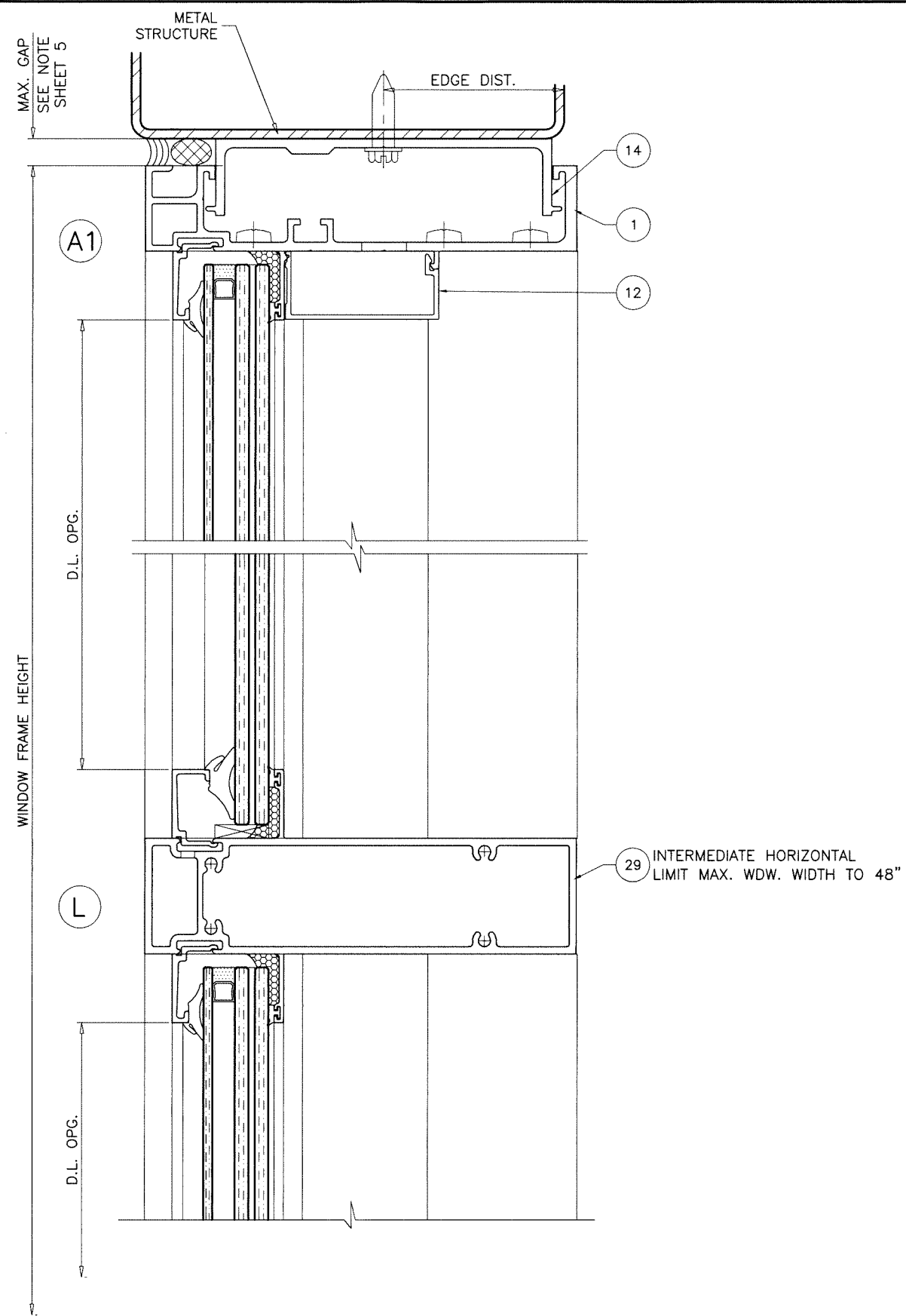
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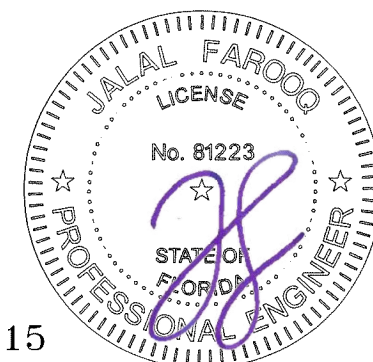
20-43F

sheet 5 of 10



Sealed: 8/8/2025

FL #32415



date: 05-04-20		revisions:	
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dr. by: TARIQ			
chk. by:			

drawing no.
20-43F
sheet 5.1 of 10

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

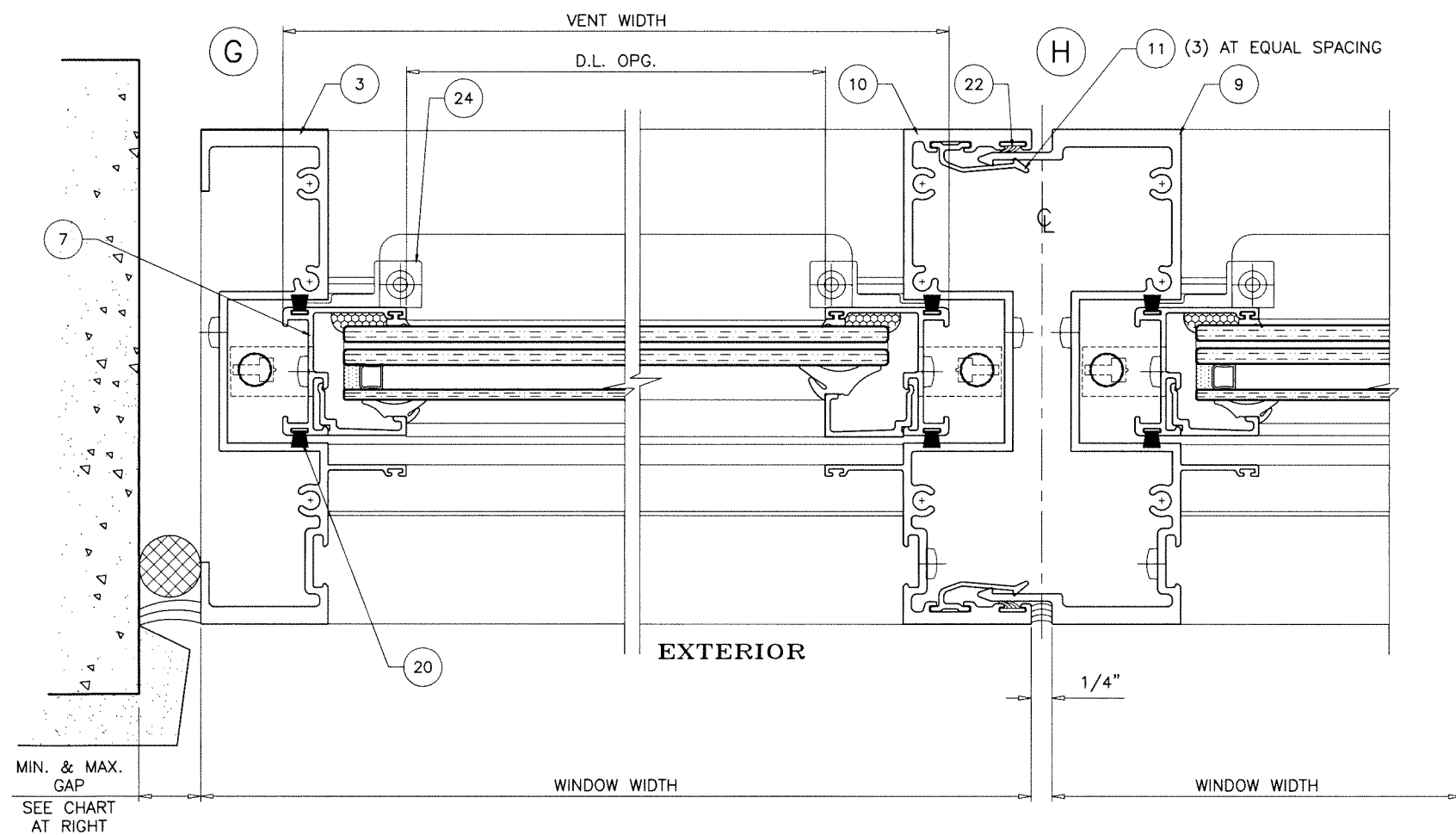
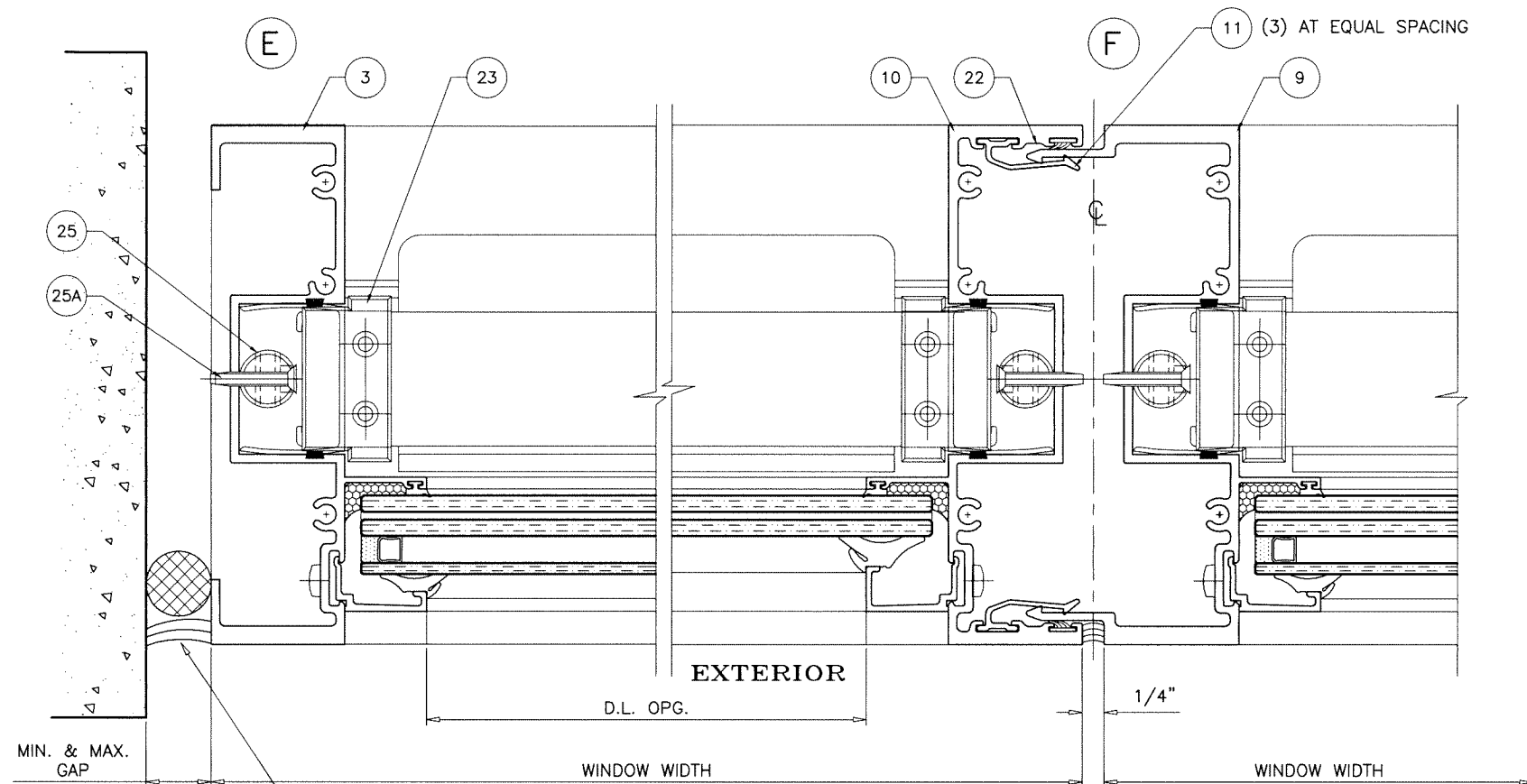
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TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\20-43F-MG

a f c



MAX. FRAME HEIGHTS UPTO	GAP	
	MIN.	MAX.
96"	1/2"	3/4"
108"	9/16"	3/4"
120"	5/8"	3/4"

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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FL #32415

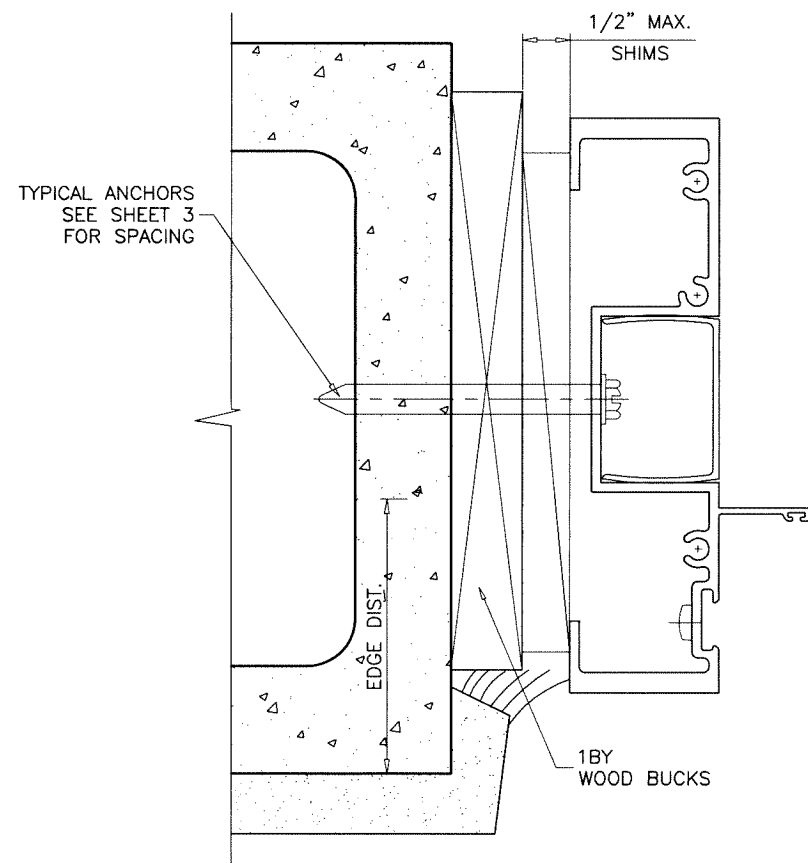
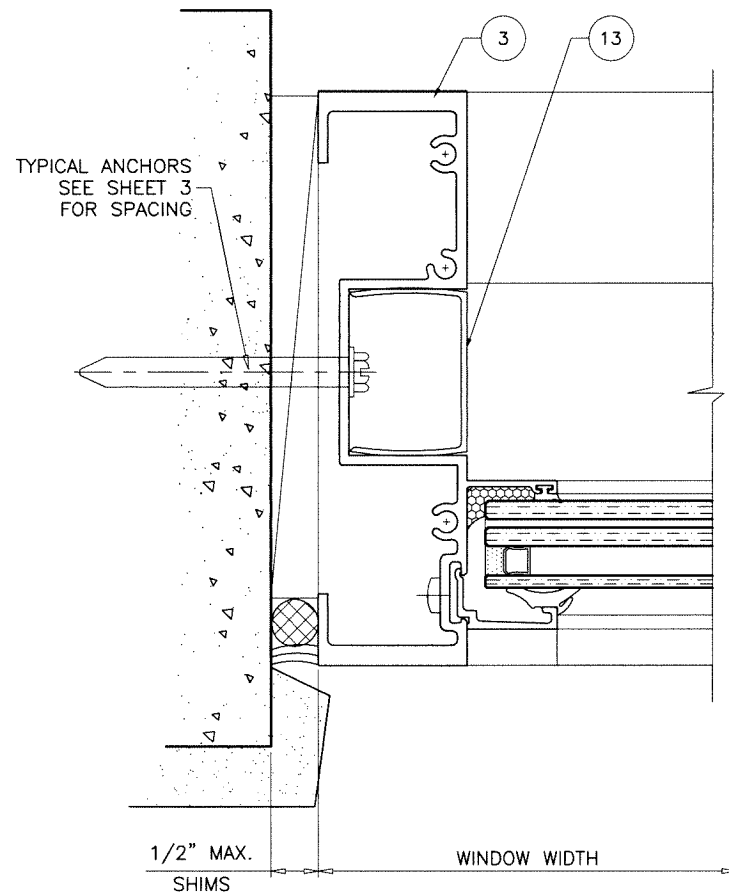
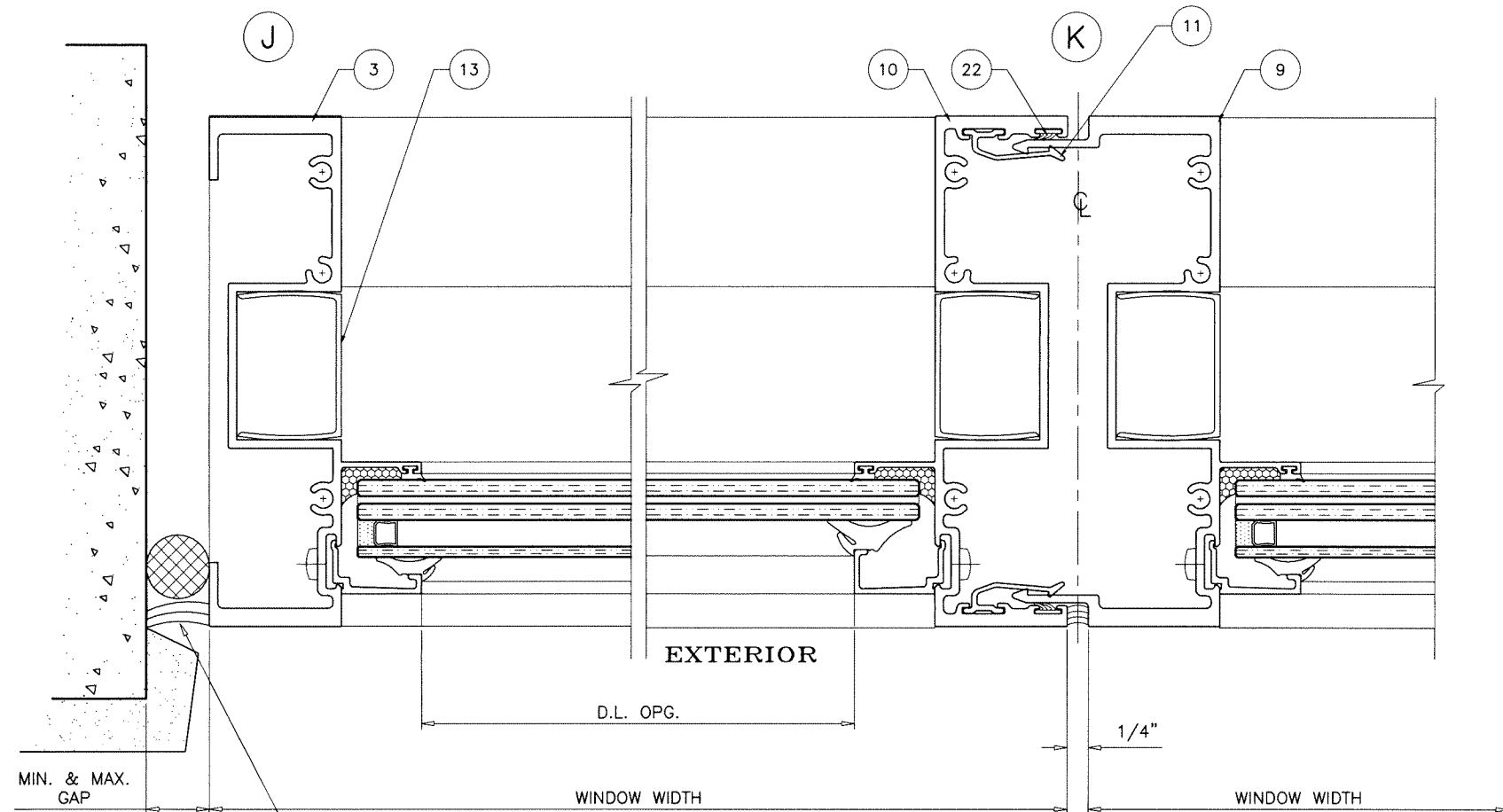


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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT JAMBS

5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
THRU 1BY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

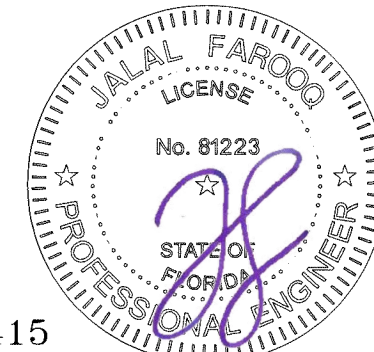
5/16" DIA. ULTRACON BY 'DEWALT' ($F_u=177$ KSI, $F_y=155$ KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

5/16" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO F.B.C. APPROVED MULLIONS
OR
INTO METAL STRUCTURES
(3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
STEEL: 3/16" THK. MIN. ($F_y = 36$ KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

INTO CONCRETE AND BLOCKS = 2-5/16" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT JAMBS SG = 0.55 MIN.
CONCRETE AT JAMBS $f'_c = 3500$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.



Sealed: 8/8/2025

FL #32415

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TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 20-43F-MG

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

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revisions:		no date by description	
date:	05-04-20	scale:	1/2" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	20-43F		
sheet	7 of 10		

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: 8/8/2025

FL #32415

afcc

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)

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

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no	date	by	description

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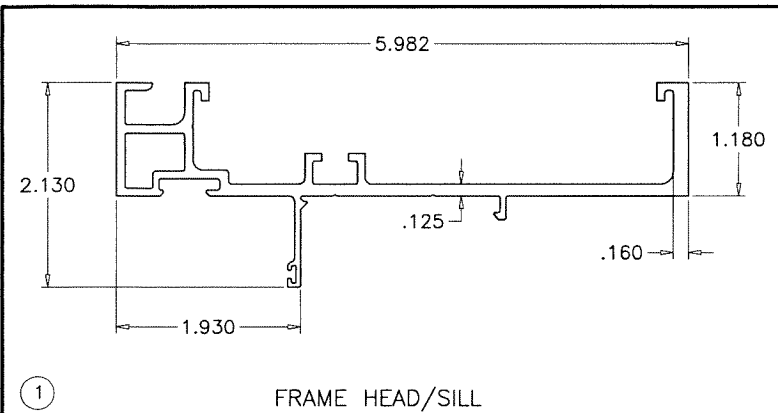
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chk. by:

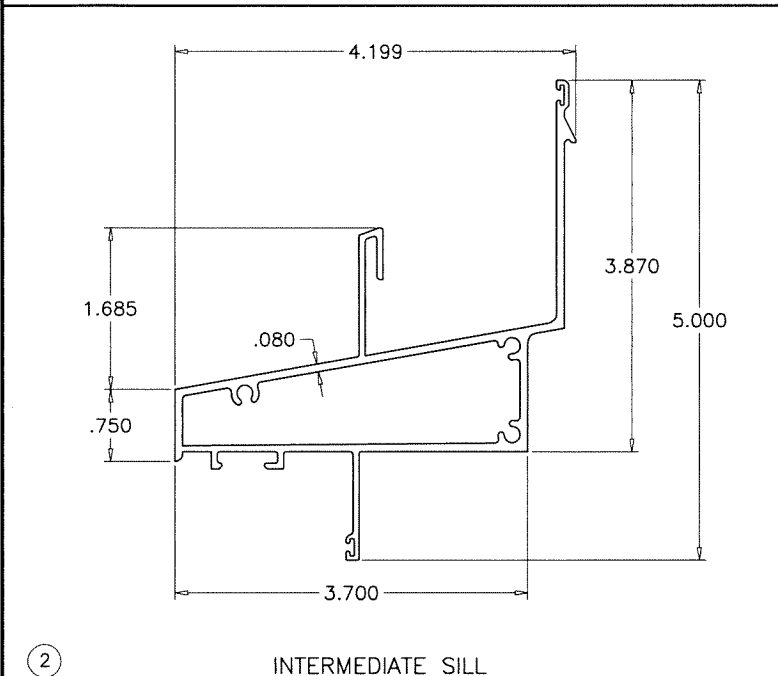
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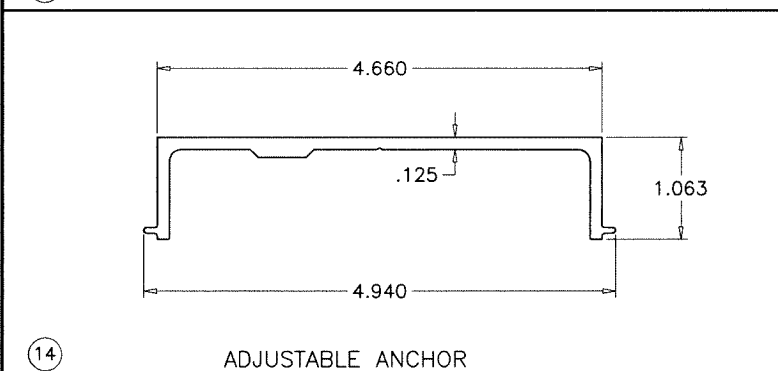
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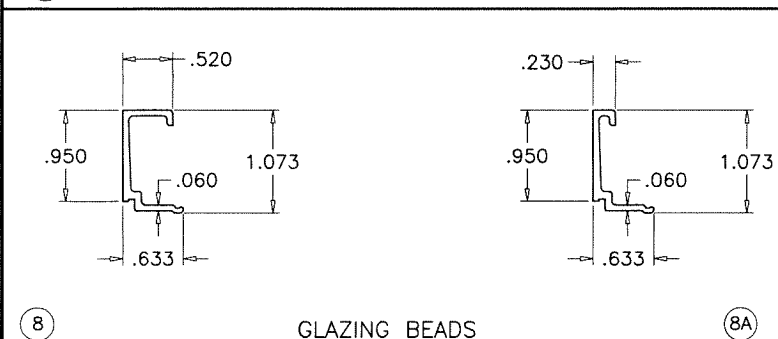
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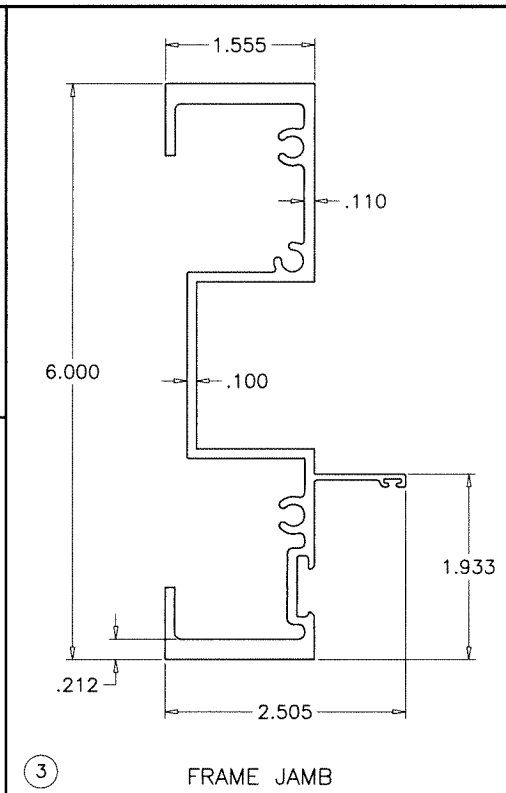
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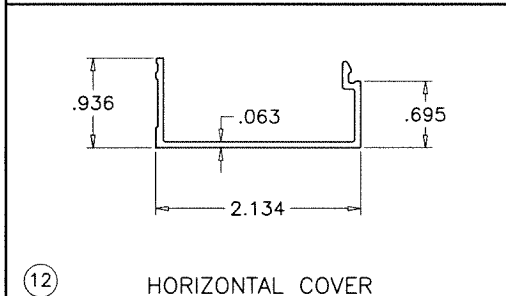
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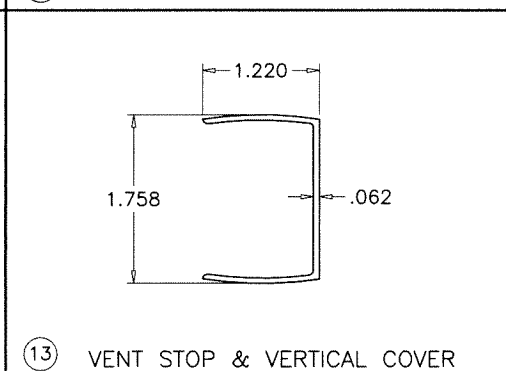
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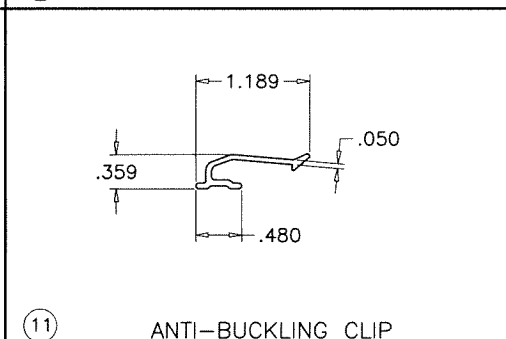
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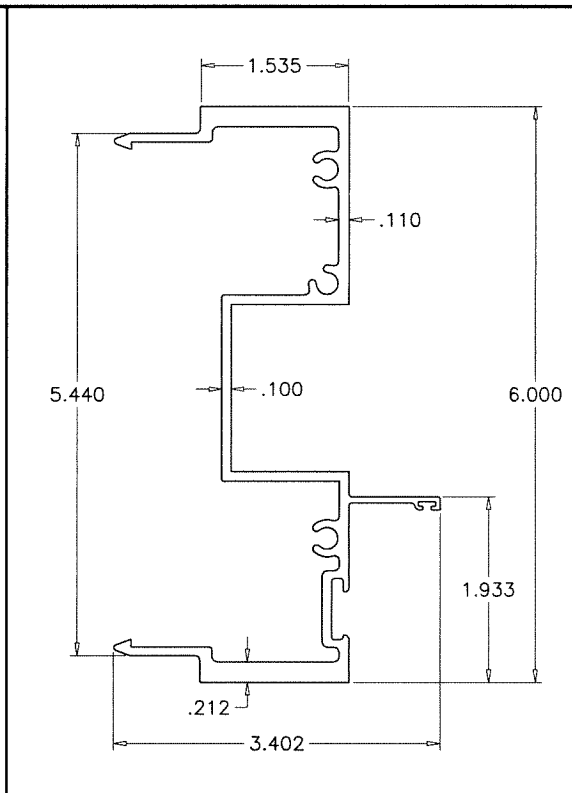
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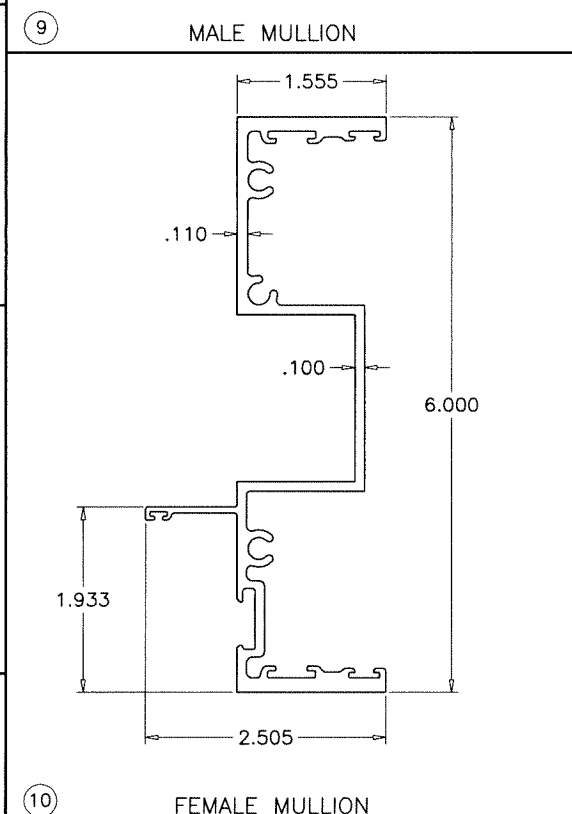
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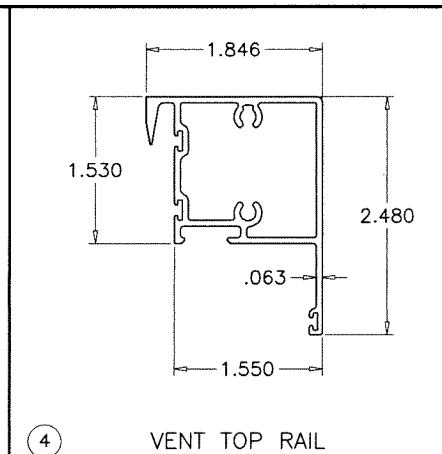
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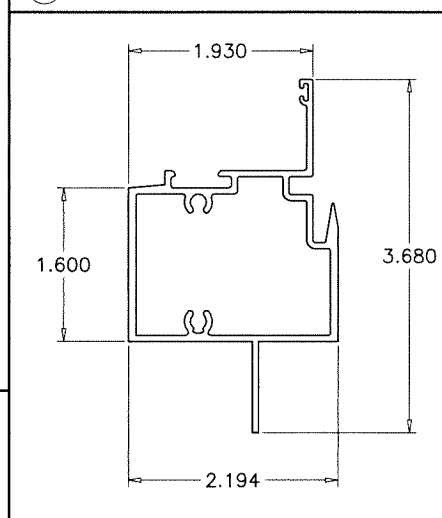
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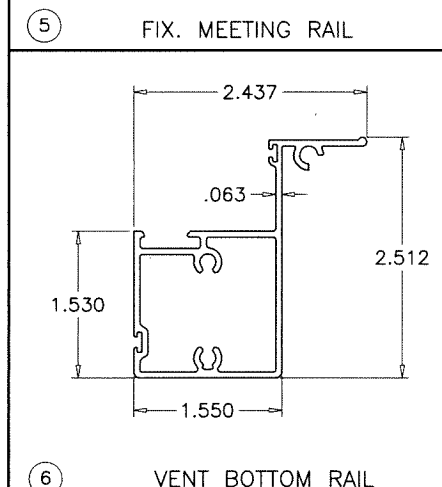
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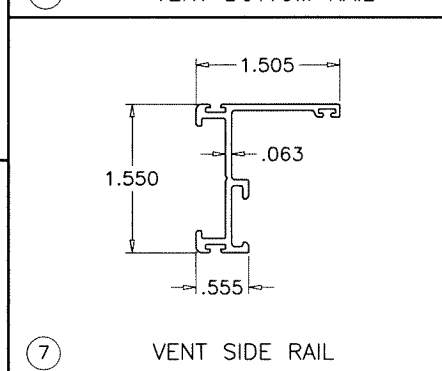
VENT TOP RAIL



FIX. MEETING RAIL



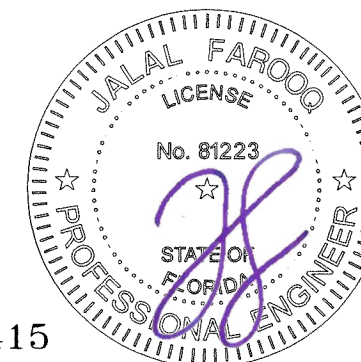
VENT BOTTOM RAIL



VENT SIDE RAIL

Sealed: 8/8/2025

FL #32415



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL\20-43F-MG

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
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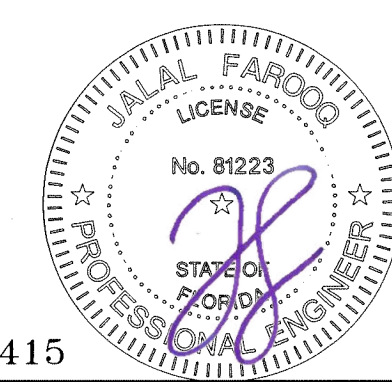
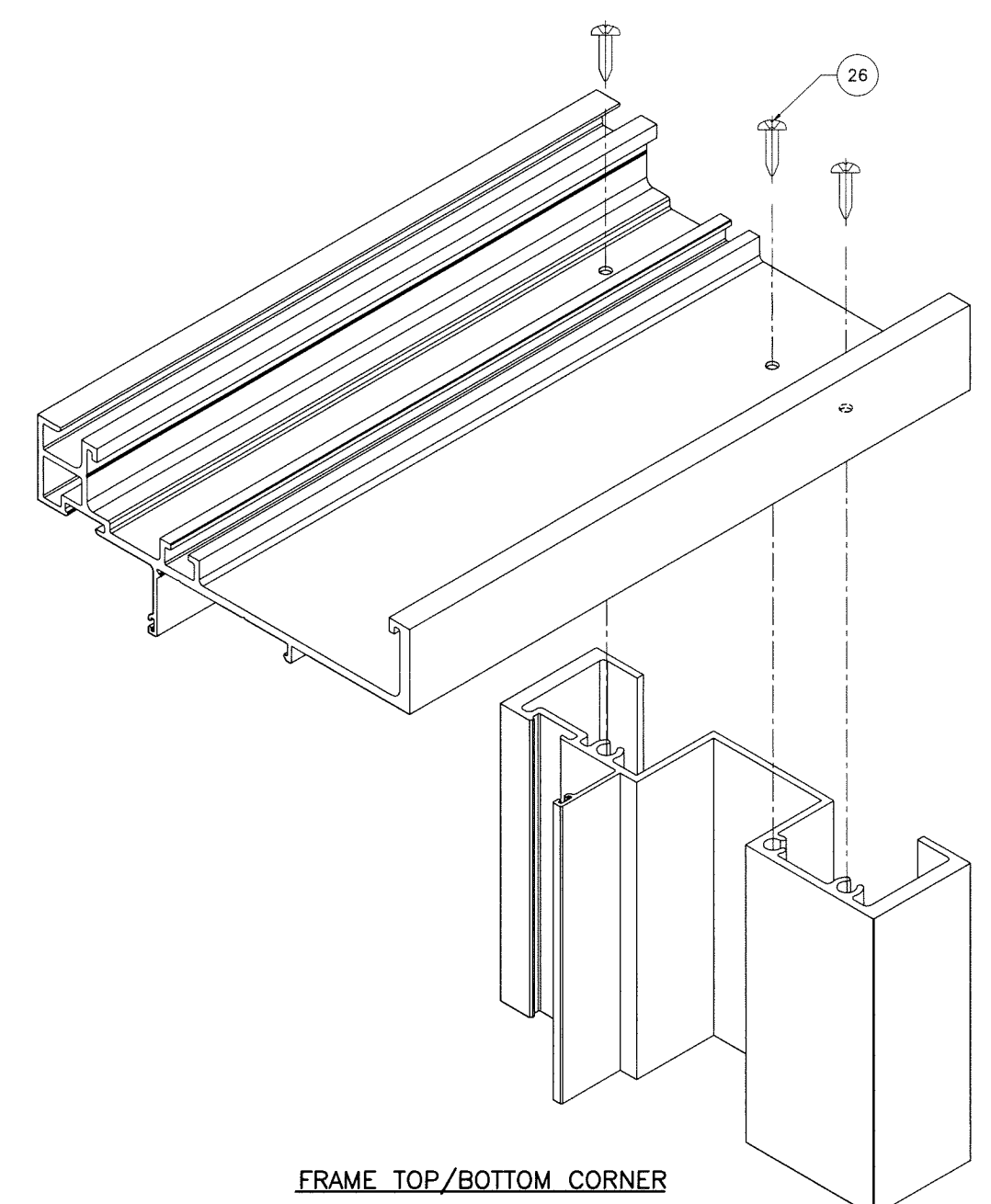
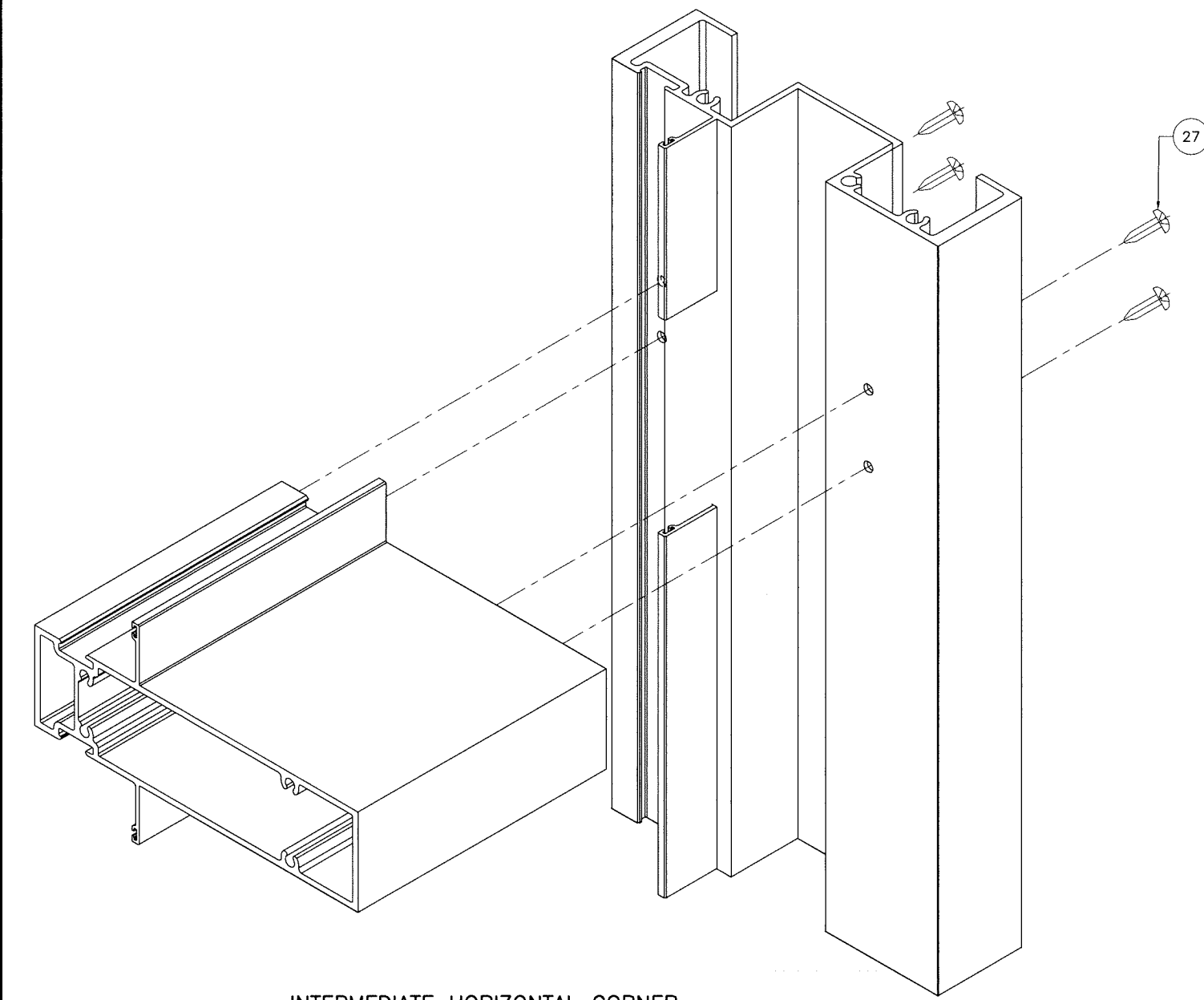
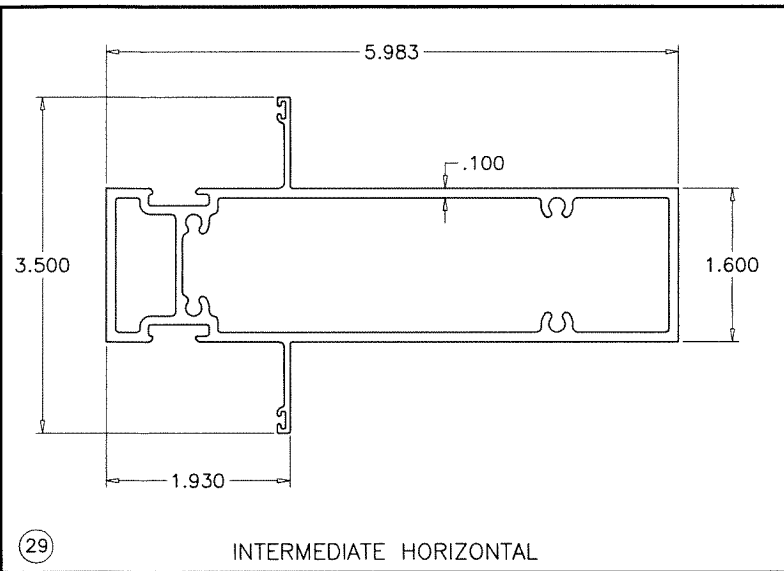
dr. by: TARIQ

chk. by:

drawing no.

20-43F

sheet 9 of 10



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ENGINEERS & PRODUCT DEVELOPMENT
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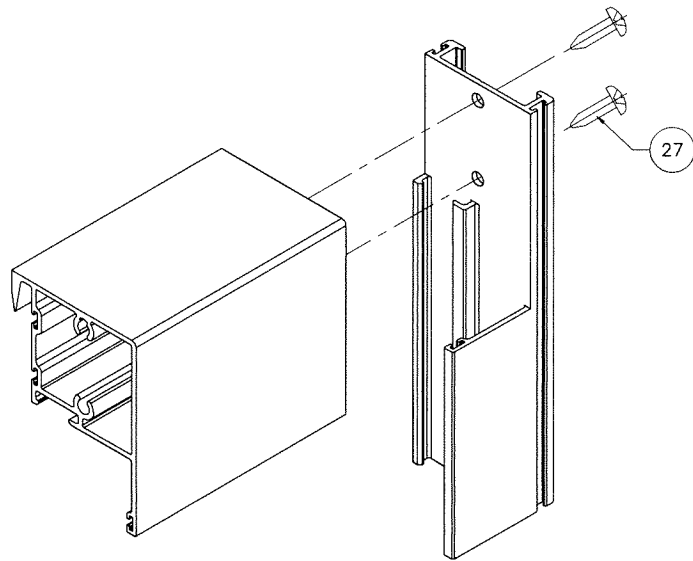
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
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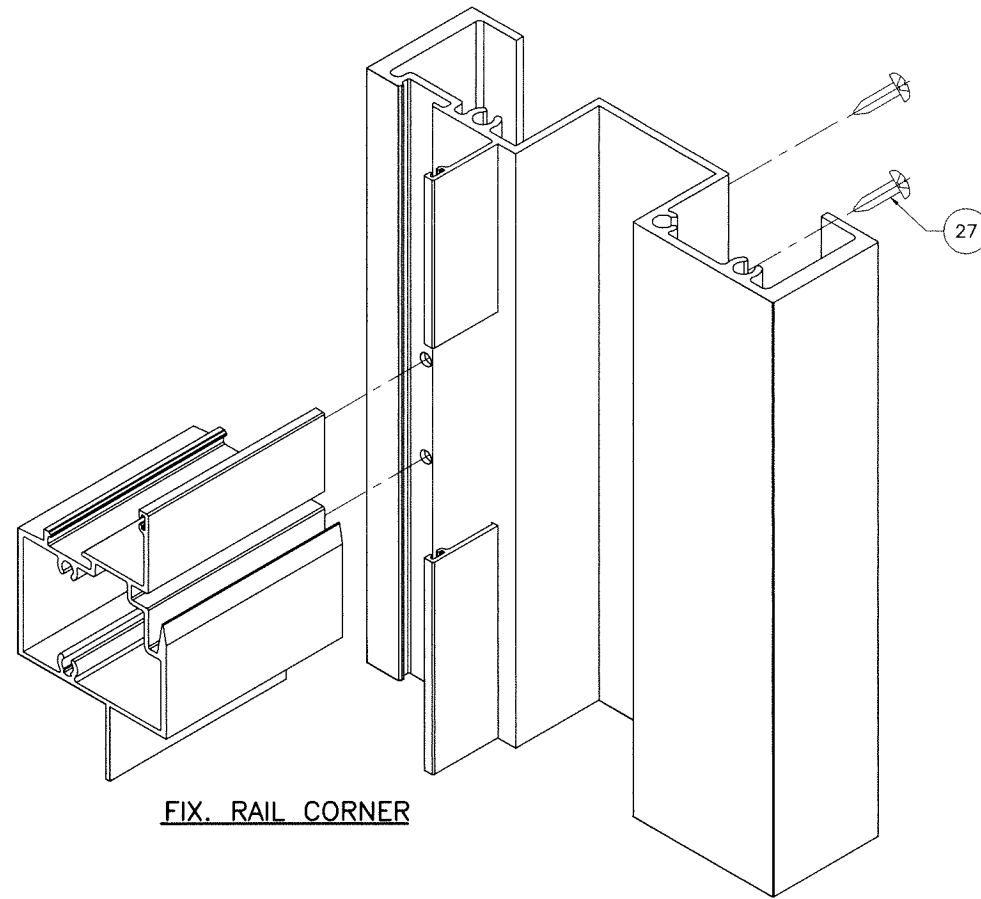
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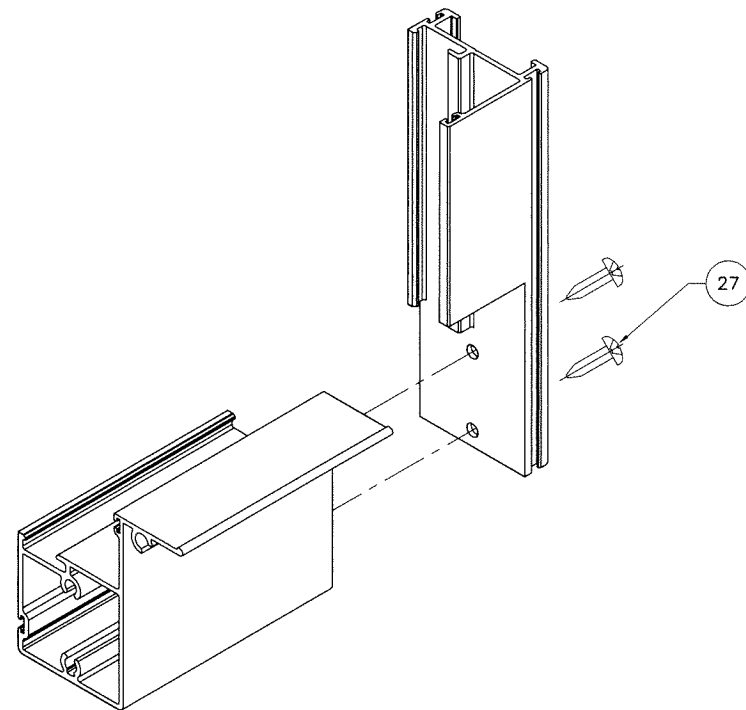
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sheet 10 of 10



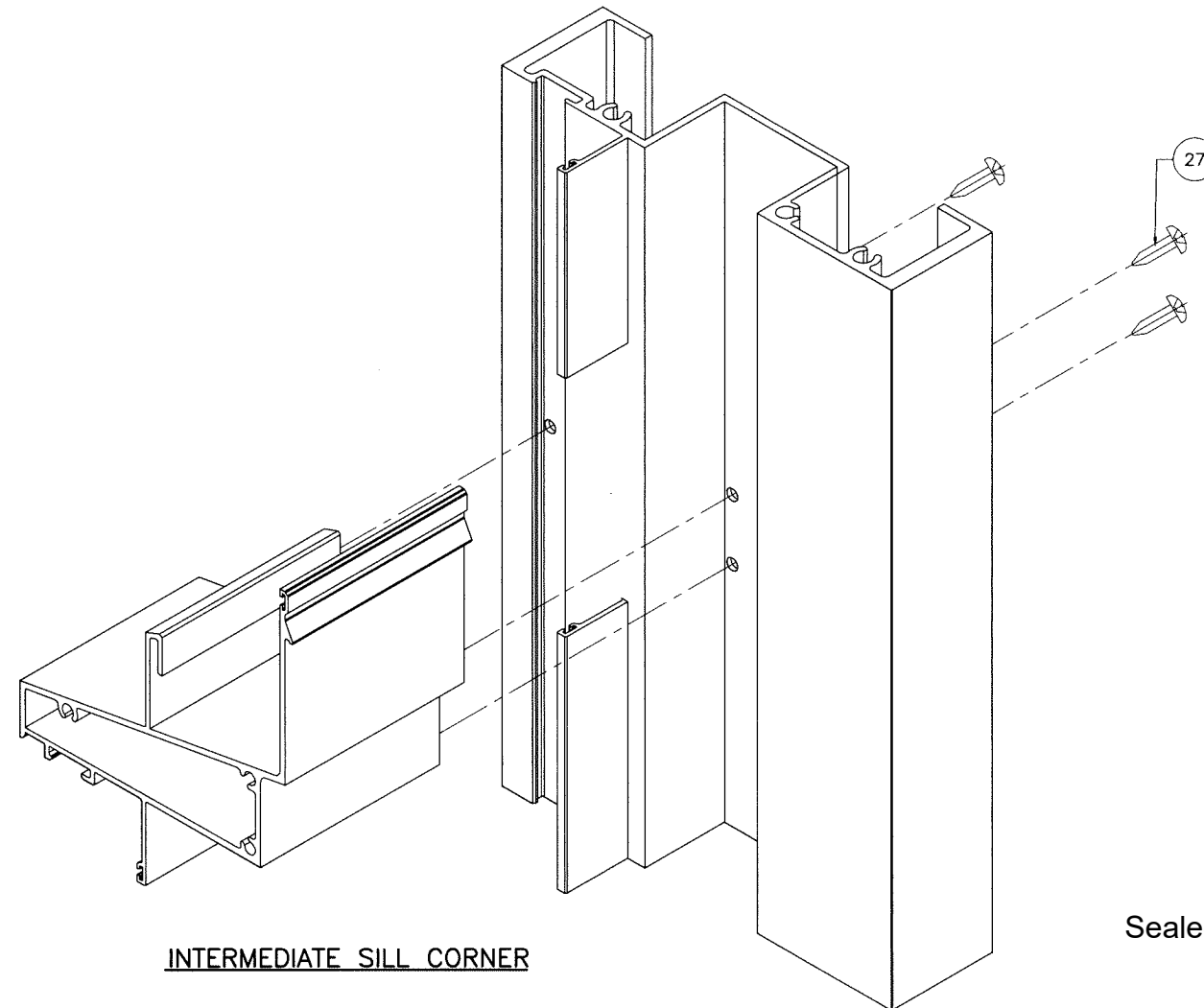
VENT TOP CORNER



FIX. RAIL CORNER



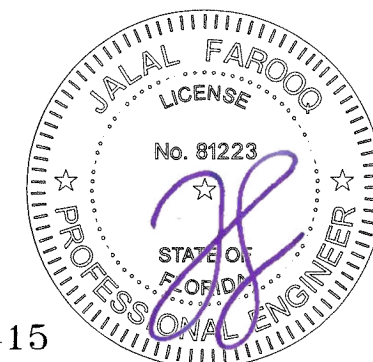
VENT BOTTOM CORNER



INTERMEDIATE SILL CORNER

Sealed: 8/8/2025

FL #32415



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sheet 10.1 of 10

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TEL. (305) 264-8100 FAX. (305) 262-6978

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