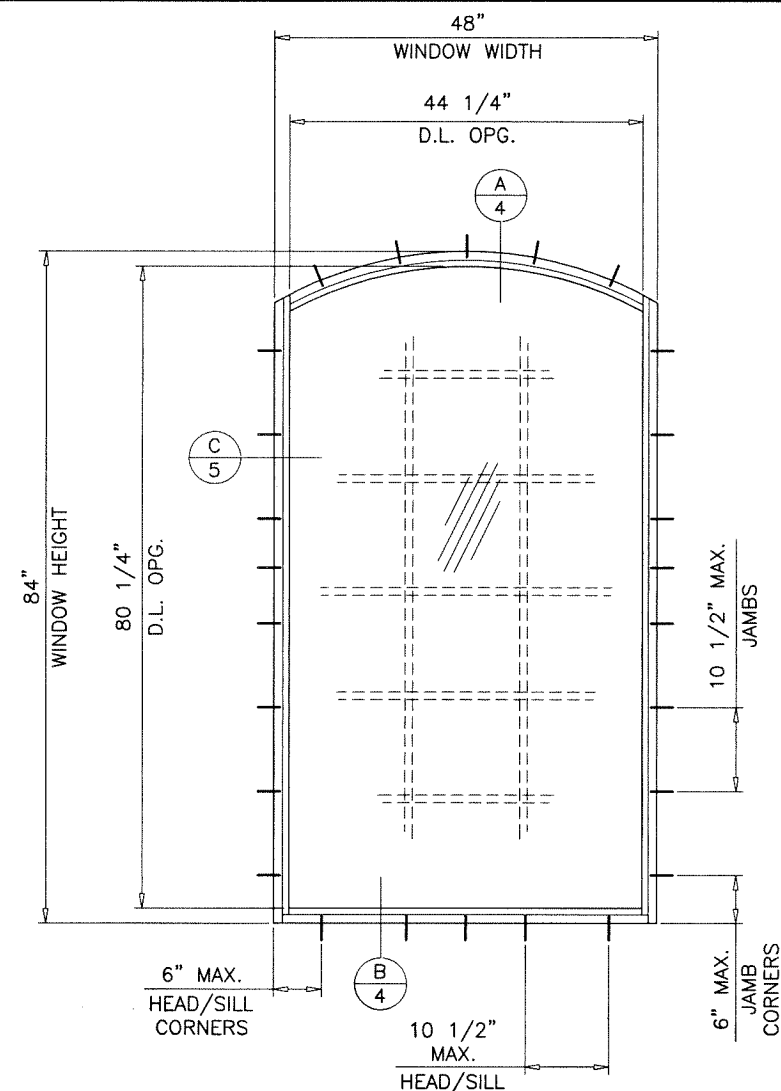
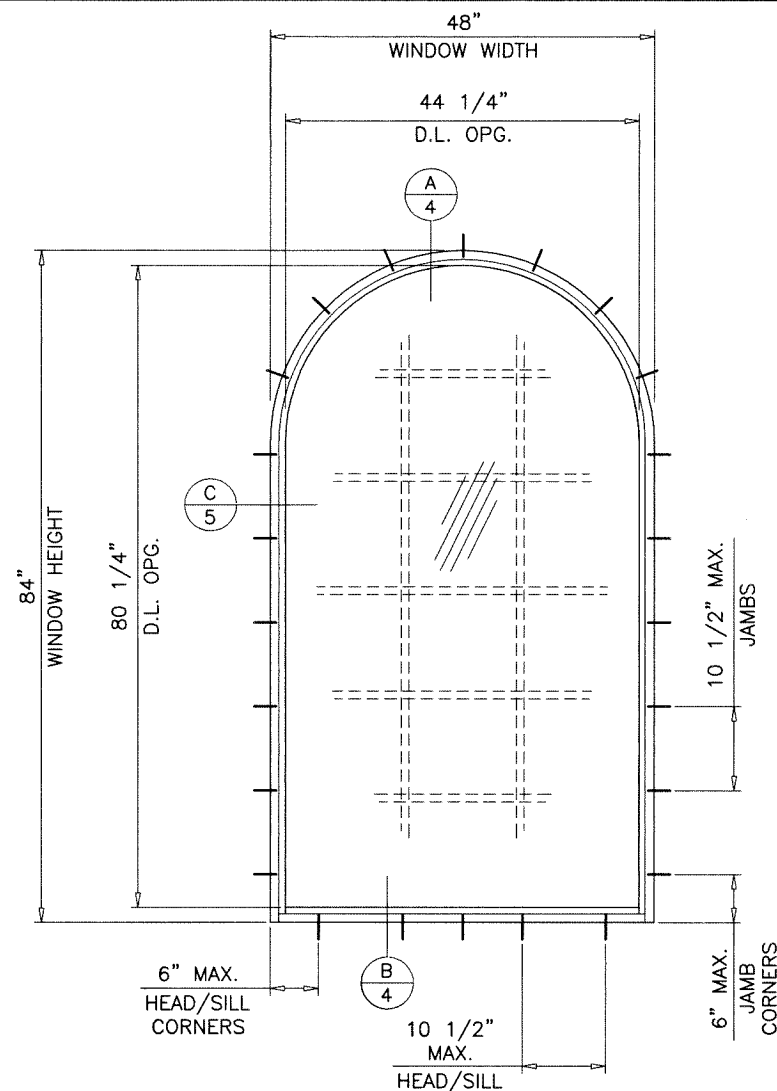
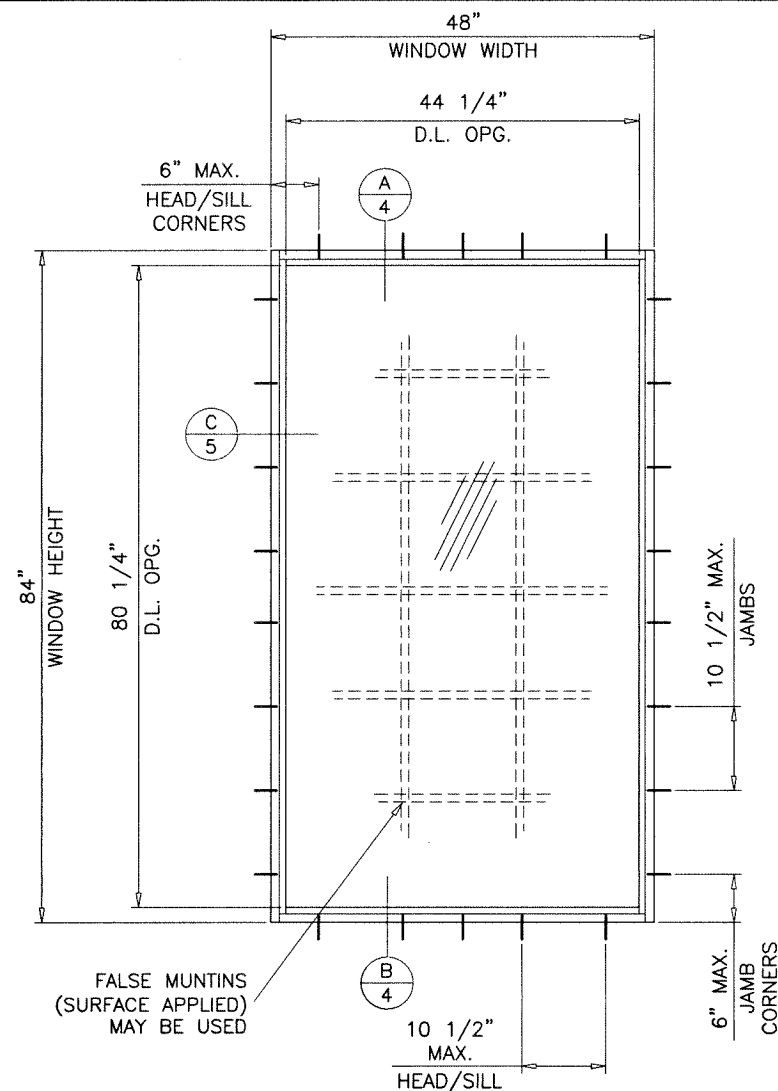




TYPICAL ELEVATIONS
(TESTED UNITS)

SERIES MRG-400
ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF FIX./FIX. OR FIXED WITH OTHER WINDOW
TYPES IN MODULES OF TWO OR MORE WINDOWS USING
F.B.C. APPROVED MULLIONS IN BETWEEN.

LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION
APPROVAL WILL APPLY TO ENTIRE 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).

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 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.

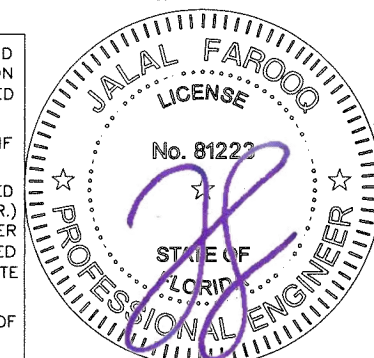
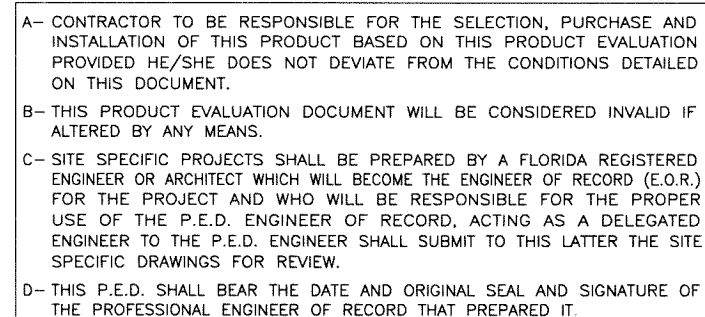
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

WINDOWS WITH GLASS TYPE 'B' COMPLY WITH
REQUIREMENTS OF ANSI Z97.1.

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

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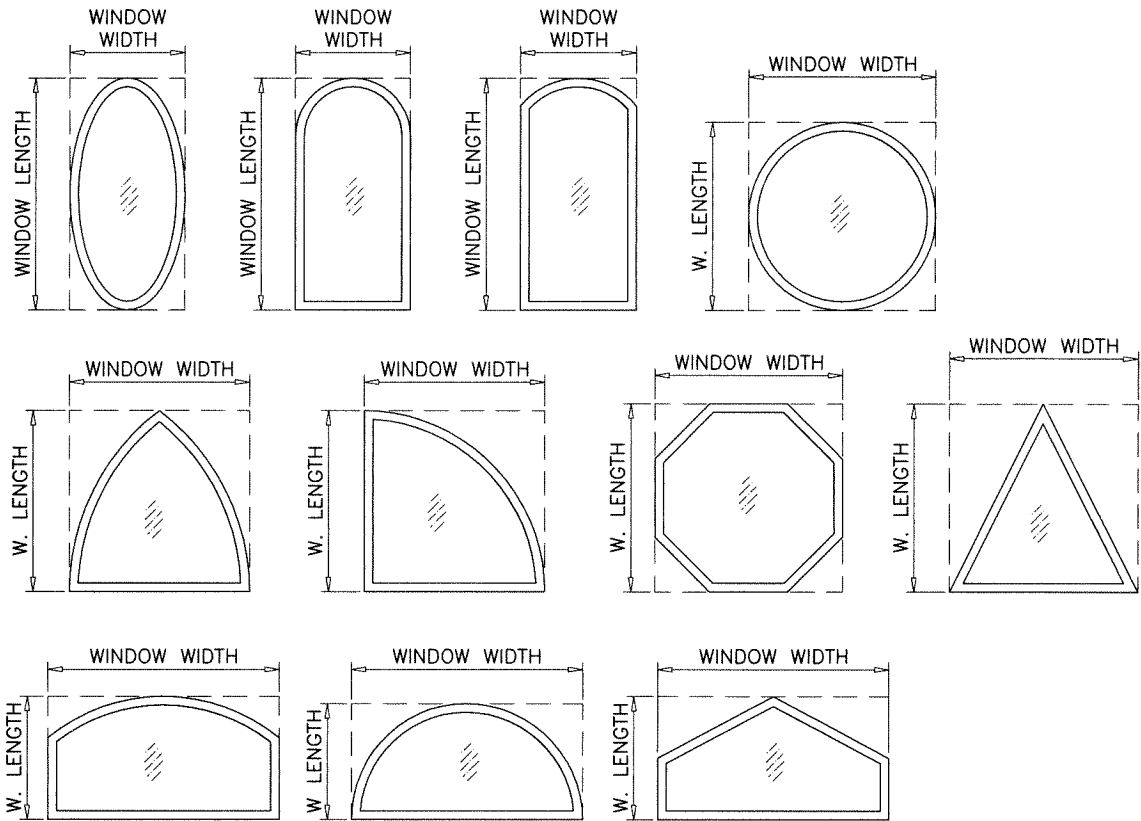
FL #37319



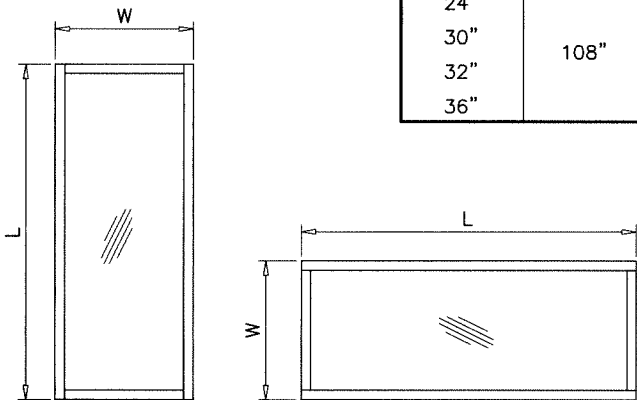
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		chk. by:	
		no	by description
		A	07.18.23 UPDATED TO 2023 FBC
		B	10.05.26 UPDATED TO 2026 FBC

DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	100.0	100.0
19-1/8"	38-3/8"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	100.0	100.0
19-1/8"	50-5/8"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	94.8	94.8
19-1/8"	56"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	63"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	72"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0
53-1/8"		65.0	65.0	90.4	90.4
19-1/8"	76"	65.0	65.0	100.0	100.0
26-1/2"		65.0	65.0	100.0	100.0
37"		65.0	65.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	48"	65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	100.0	100.0
24"		65.0	65.0	100.0	100.0
30"	60"	65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"		65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"	72"	65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	88.9	88.9
24"		65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"	84"	65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	100.0	100.0
24"		65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"	96"	65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0
54"		65.0	65.0	100.0	100.0
24"		65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"	108"	65.0	65.0	100.0	100.0
54"		65.0	65.0	100.0	100.0
24"		65.0	65.0	100.0	100.0
30"		65.0	65.0	100.0	100.0
32"		65.0	65.0	100.0	100.0
36"		65.0	65.0	100.0	100.0
42"		65.0	65.0	100.0	100.0
48"		65.0	65.0	100.0	100.0



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.



NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

Sealed: 10/9/2026

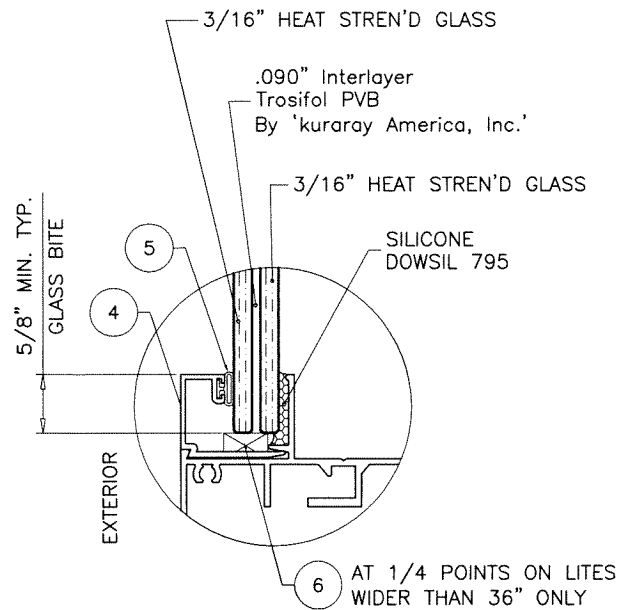


FL #37319

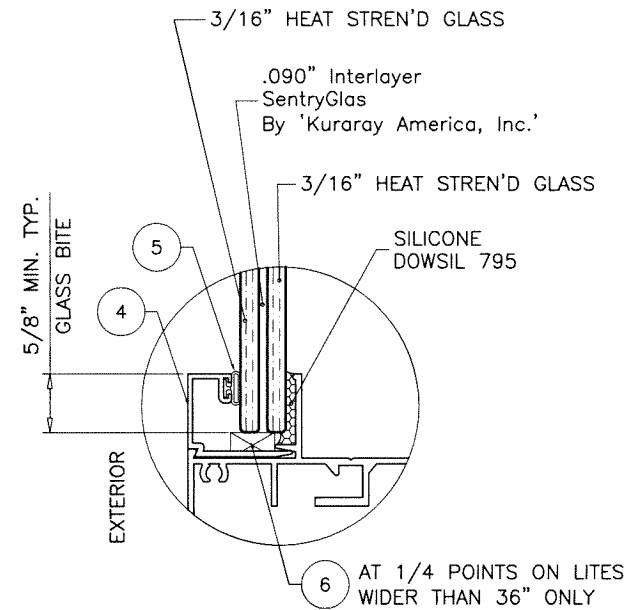
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
FAX. (305) 262-6978
(C.A.N. 3538)

MRG-400 ALUMINUM FIXED WDW. (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

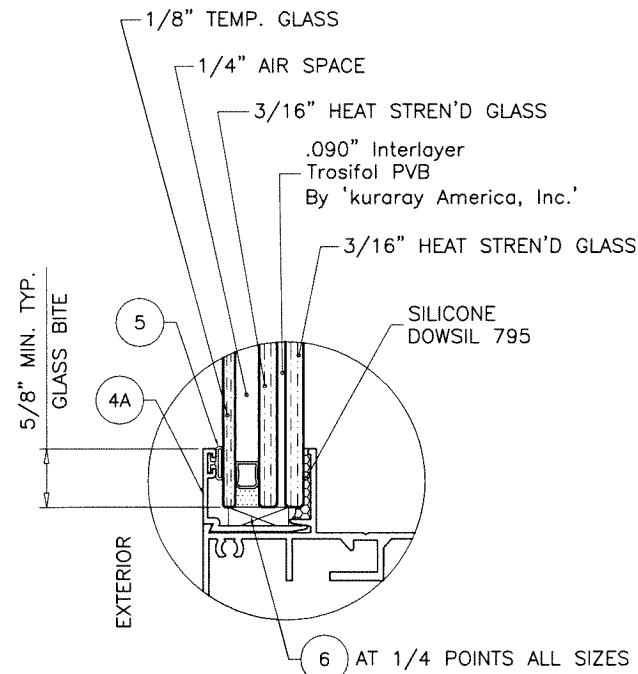
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01-08-21
scale: -
dr. by: TARIQ
chk. by:
drawing no.
21-02F
sheet 2 of 7



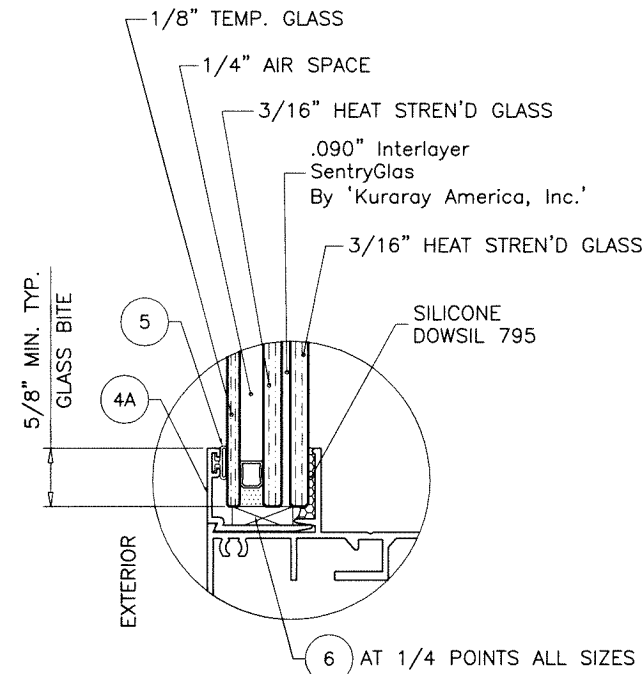
GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS



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



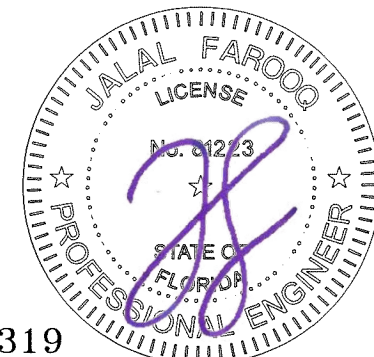
GLASS TYPE 'Ai'
13/16" OVERALL INSUL. LAM. GLASS



GLASS TYPE 'Bi'
13/16" OVERALL INSUL. LAM. GLASS

1/4" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000
OR
'DURASEAL' EDGE SEAL SYSTEM
BY 'QUANEX'

Sealed: 10/9/2026



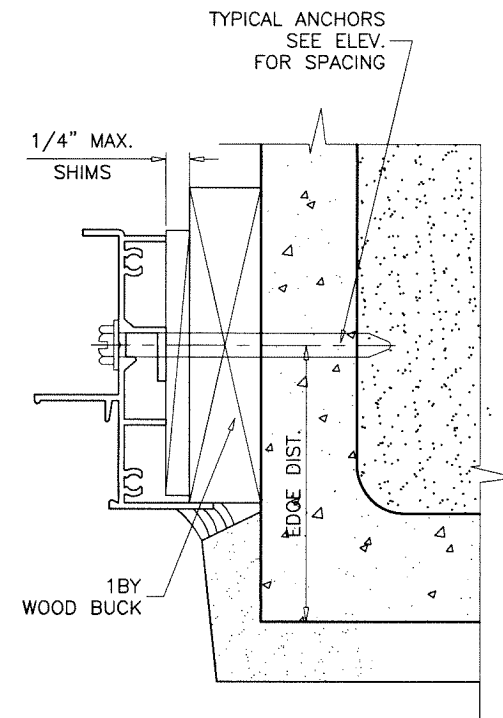
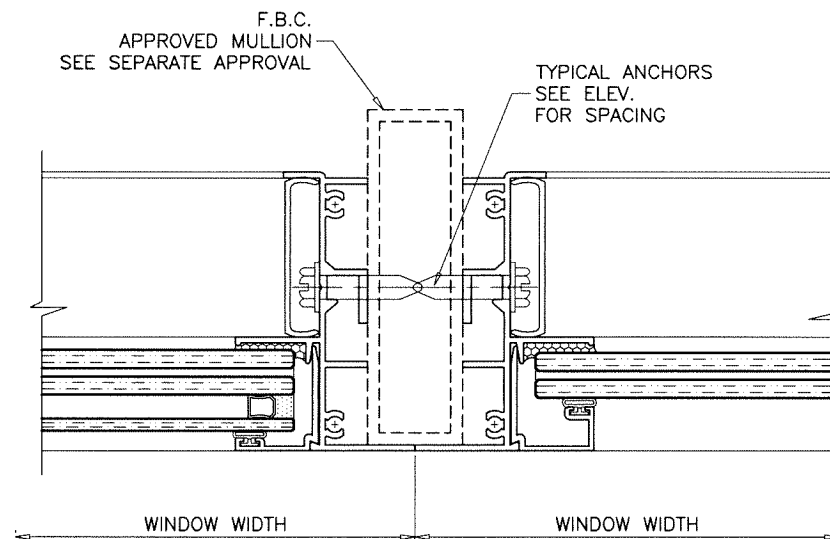
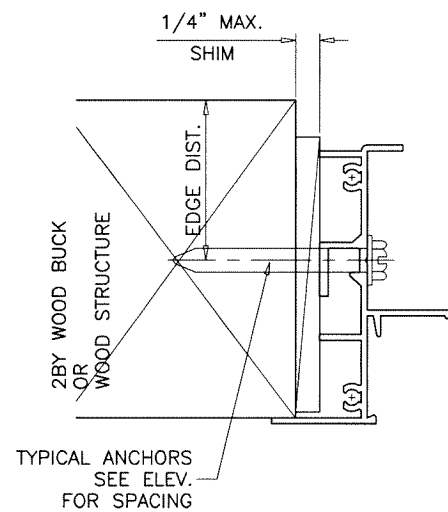
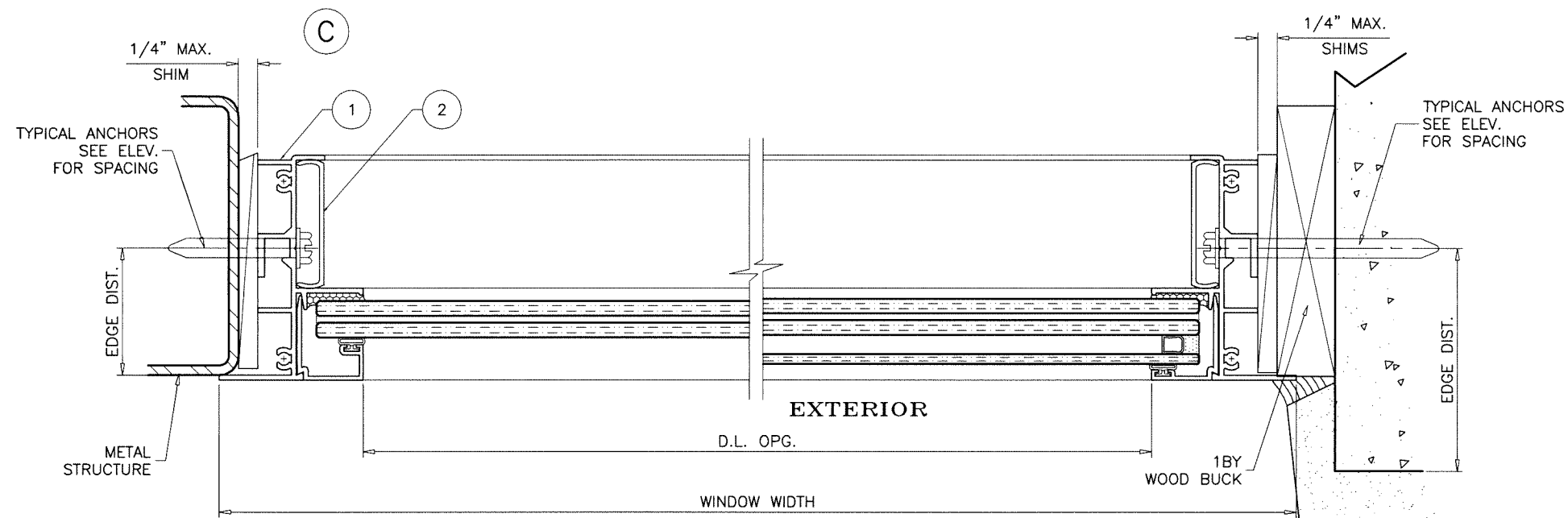
FL #37319

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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\21-02F-MG

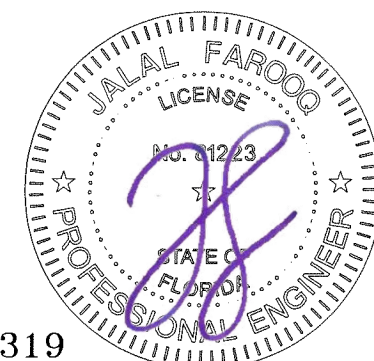
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drawing no.
21-02F
sheet 3 of 7



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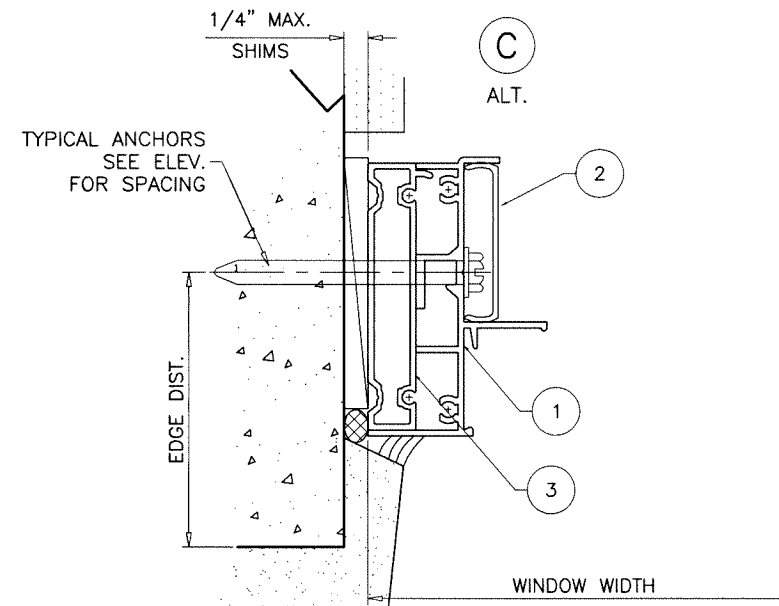
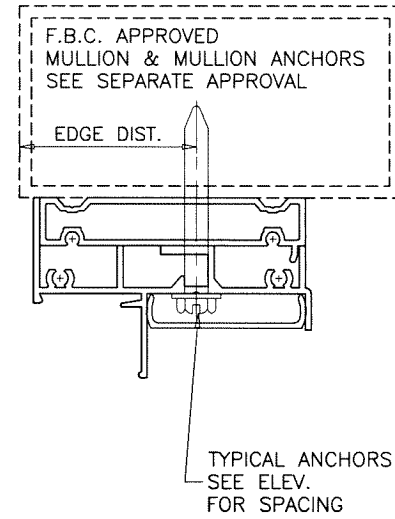
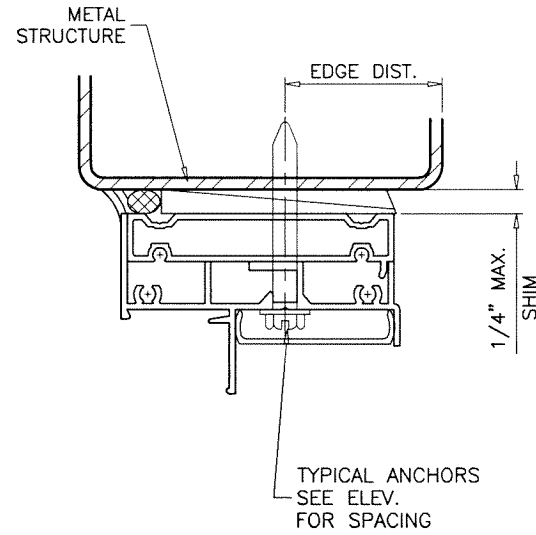
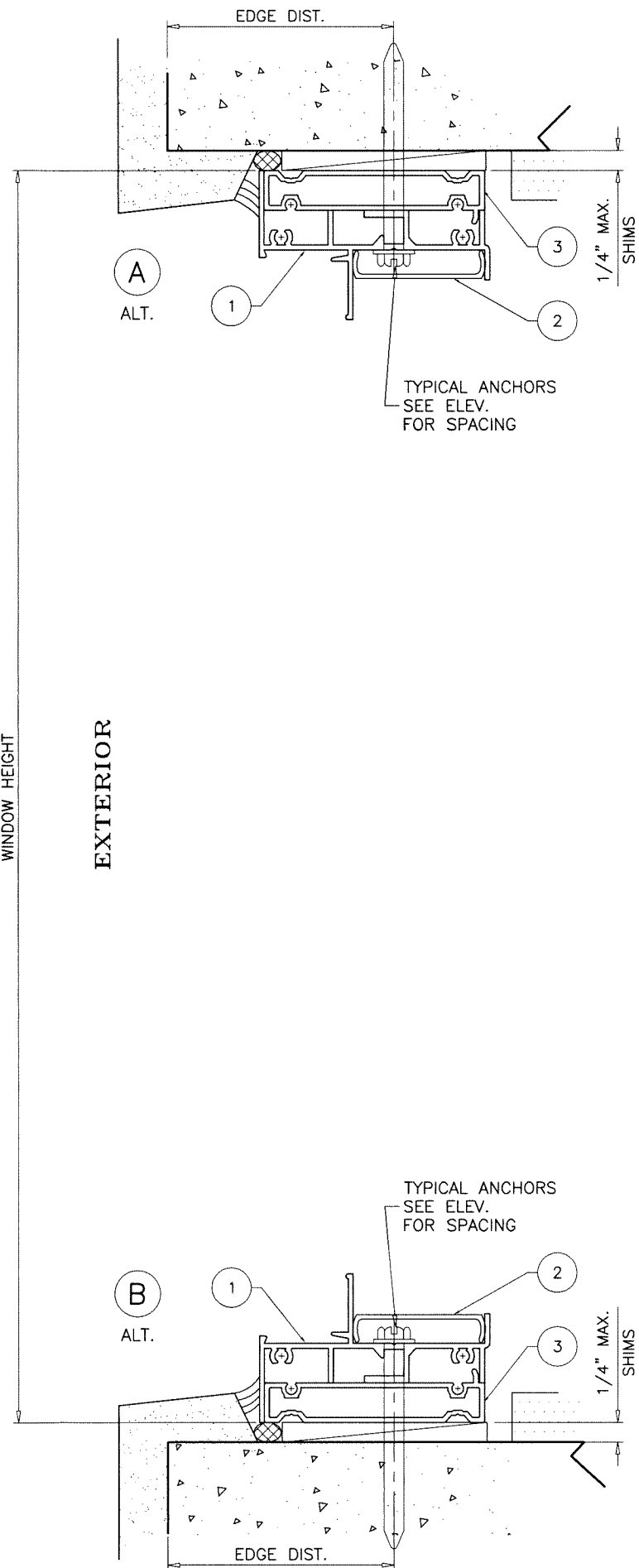
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chk. by:			
drawing no.		21-02F	
sheet 5 of 7			

WINDOW HEIGHT

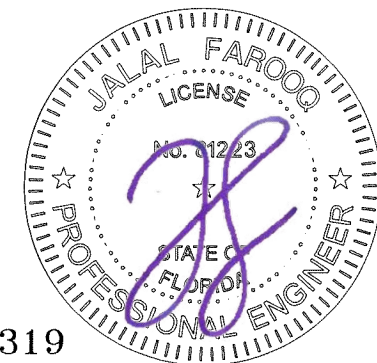
EXTERIOR



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTERS
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 10/9/2026

FL #37319



af c

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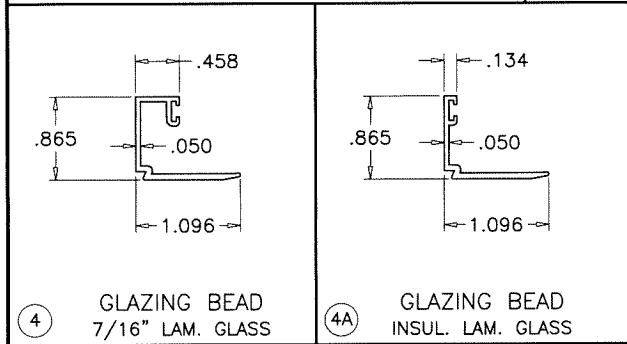
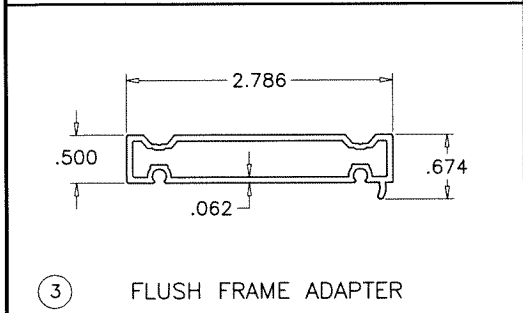
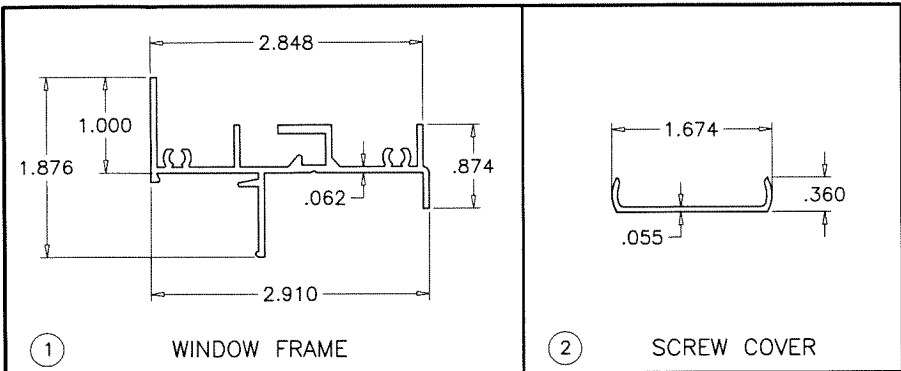
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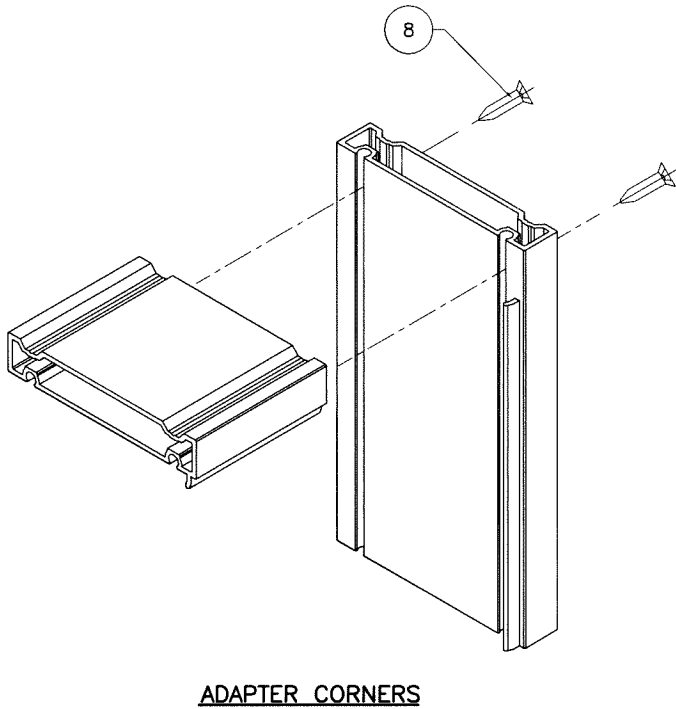
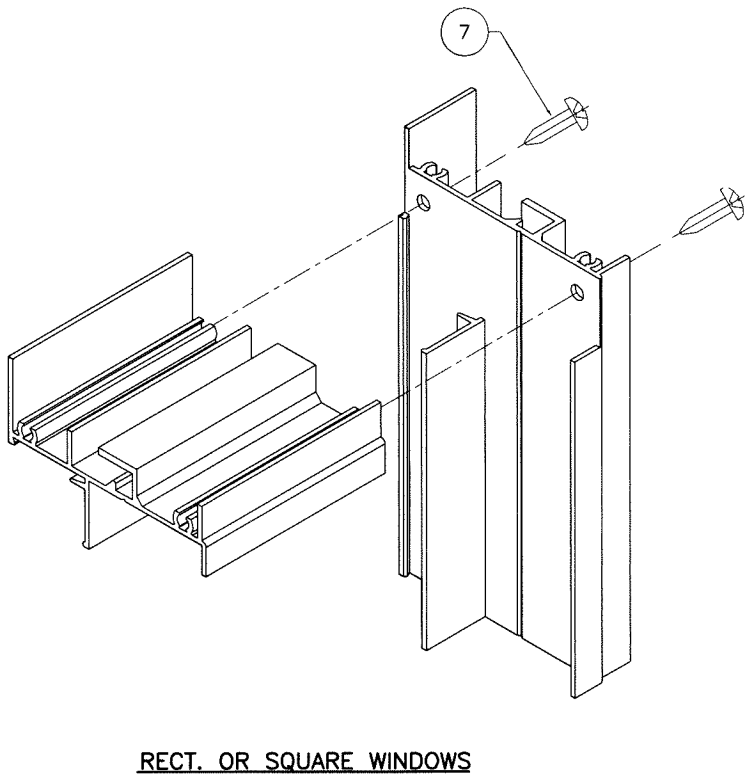
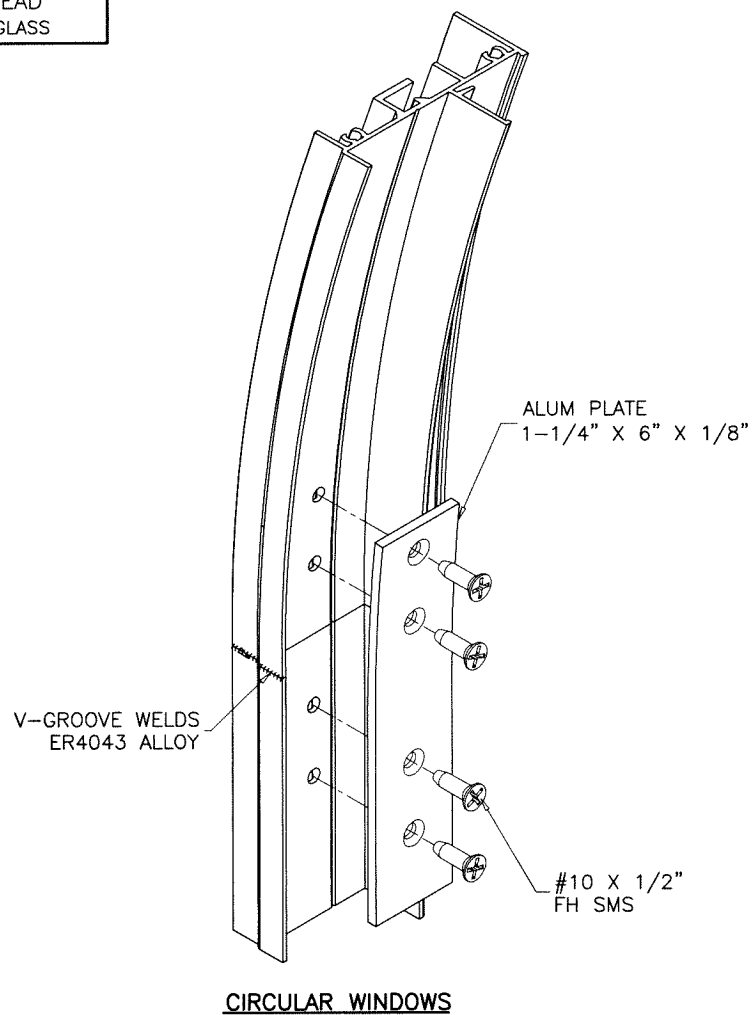
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sheet 6 of 7



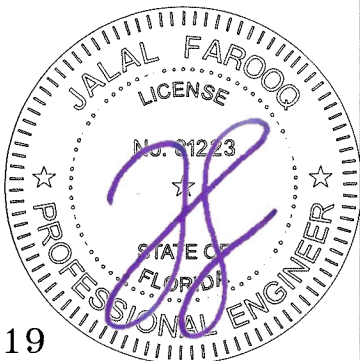
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	MRG-201	4	WINDOW FRAME	6063-T6	-
2	MRG-215	4	SCREW COVER	6063-T6	-
3	MRG-212	4	FLUSH FRAME ADAPTER	6063-T6	-
4	MRG-209	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
4A	MRG-210	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
5	E201	AS REQD.	GLAZING BEAD BULB	NEOPRENE	ULTRAFAB
6	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS (3/16" X 1/2" X 1")	EPDM	DUROMETER 80±5 SHORE A
7	#10 X 1"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST/ST	P.H. SMS
8	#8 X 1"	AS REQD.	ADAPTER ASSEMBLY FASTENERS	ST/ST	F.H. SMS
9	-	-	-	-	-

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE.



Sealed: 10/9/2026

FL #37319



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sheet 7 of 7

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