

TYPICAL ELEVATIONS  
TESTED UNITS

DAYLITE OPENINGS:  
D.L.O. HEIGHT = INT. WINDOW HEIGHT - 2.860"  
D.L.O. WIDTH = INT. WINDOW WIDTH - 2.860"

**SERIES-100FW  
ALUMINUM FIXED WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2 & 3.

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 2017 (6TH EDITION)/2020 (7TH 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 2017/2020 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.

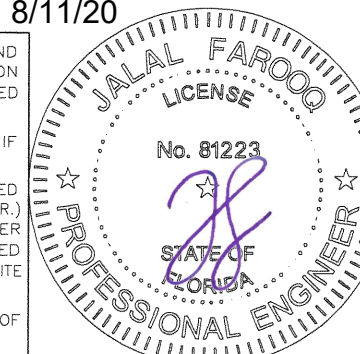
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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.

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

- 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.

FL #30352  
8/11/20



**af c**  
**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\19-67F-AWC

SERIES-100FW ALUMINUM FIXED WDW. (L.M.I.)  
**Alcon Windows And Doors Corp.**  
7240 N.W. 46th Street  
Miami, FL. 33166  
Tel. (305) 553-0229 Fax. (786) 363-8141

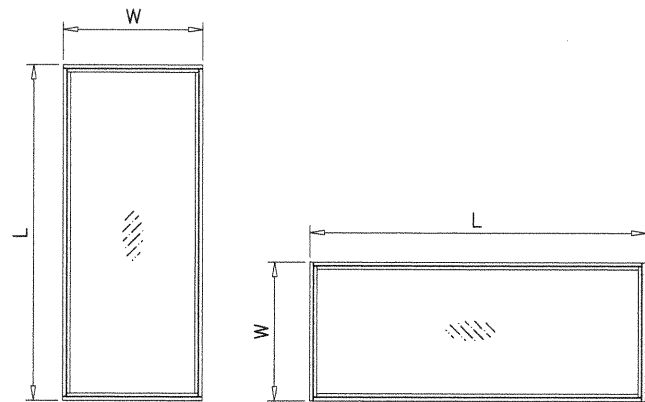
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dr. by: TARIQ  
chk. by:

drawing no.  
**19-67F**  
sheet 1 of 6

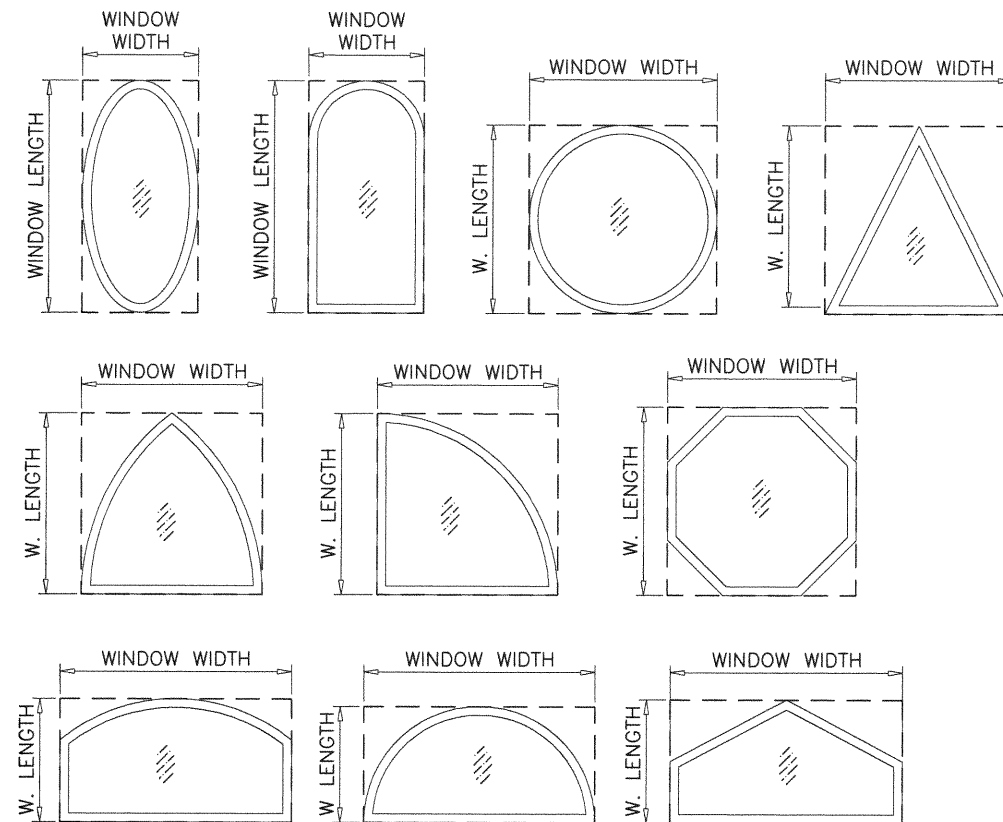
DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
18-1/8"	25"	70.0	70.0
25-1/2"		70.0	70.0
36"		70.0	70.0
52-1/8"		70.0	70.0
18-1/8"	37-3/8"	70.0	70.0
25-1/2"		70.0	70.0
36"		68.5	68.5
52-1/8"		66.0	66.0
18-1/8"	49-5/8"	70.0	70.0
25-1/2"		70.0	70.0
36"		68.5	68.5
52-1/8"		68.5	68.5
18-1/8"	55"	70.0	70.0
25-1/2"		70.0	70.0
36"		68.5	68.5
18-1/8"	62"	70.0	70.0
25-1/2"		70.0	70.0
18-1/8"	71"	70.0	70.0
25-1/2"		70.0	70.0
18-1/8"	75"	70.0	70.0
25-1/2"		70.0	70.0

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
23"	47"	70.0	70.0
29"		70.0	70.0
35-1/4"		70.0	70.0
41"		60.2	60.2
23"		59"	70.0
29"	62"	70.0	70.0
23"		71"	70.0
23"	83"	70.0	70.0

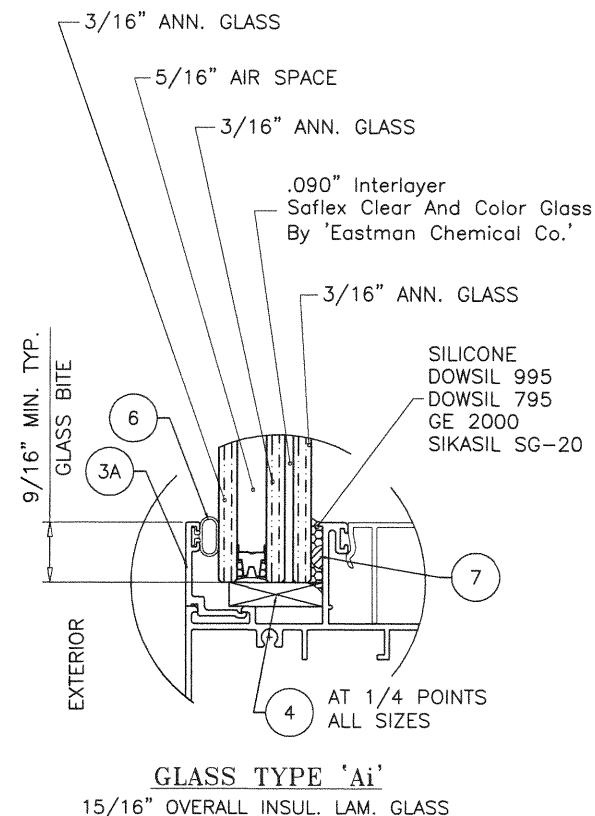
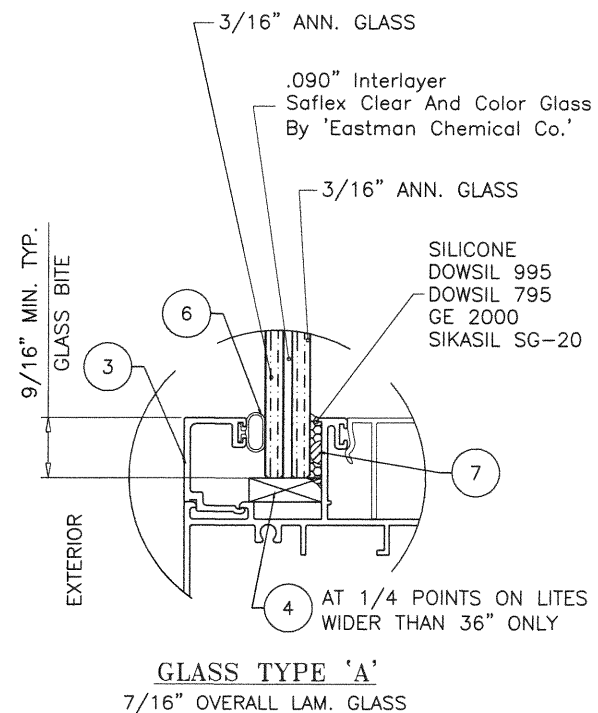


NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.

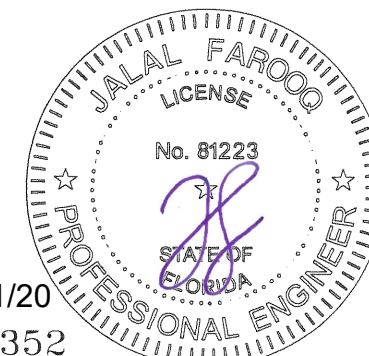
NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).



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:  
EXTERIOR LITE OF GLASS TYPE 'Ai' TO BE TEMPERED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.



8/11/20  
FL #30352

**af c**  
**AL-FAROOQ CORPORATION**  
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chk. by:

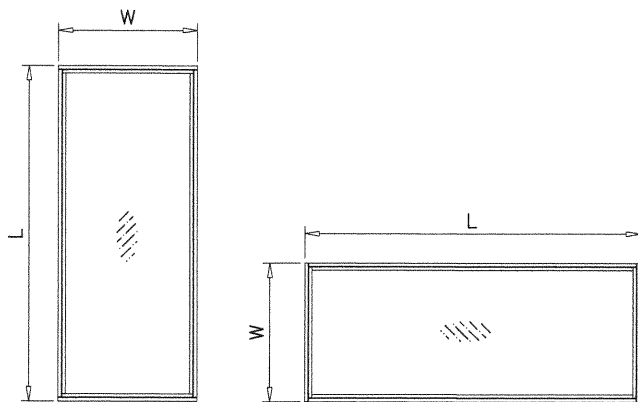
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**19-67F**

sheet 2 of 6

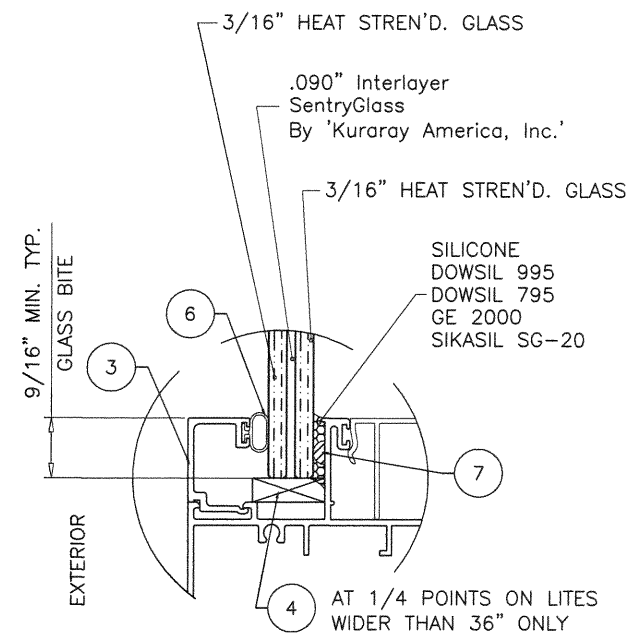
DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
18-1/8"	25"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		80.0	95.0
18-1/8"	37-3/8"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		80.0	95.0
18-1/8"	49-5/8"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		75.8	90.0
18-1/8"	55"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	62"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	71"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7
18-1/8"	75"	80.0	95.0
25-1/2"		80.0	95.0
36"		80.0	95.0
52-1/8"		72.1	85.7

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
23"	47"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		80.0	95.0
59"		80.0	95.0
65"	59"	80.0	95.0
71"		80.0	95.0
77"		80.0	95.0
23"		80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"	62"	80.0	95.0
53"		70.9	84.2
59"		63.7	75.7
65"		63.7	75.7
71"		63.7	75.7
77"		63.7	75.7
23"		80.0	95.0
29"		80.0	95.0
31"	80.0	95.0	
35"	80.0	95.0	
41"	80.0	95.0	
47"	80.0	95.0	
53"	70.9	84.2	
59"	63.7	75.7	
65"	60.6	72.0	
71"	60.6	72.0	

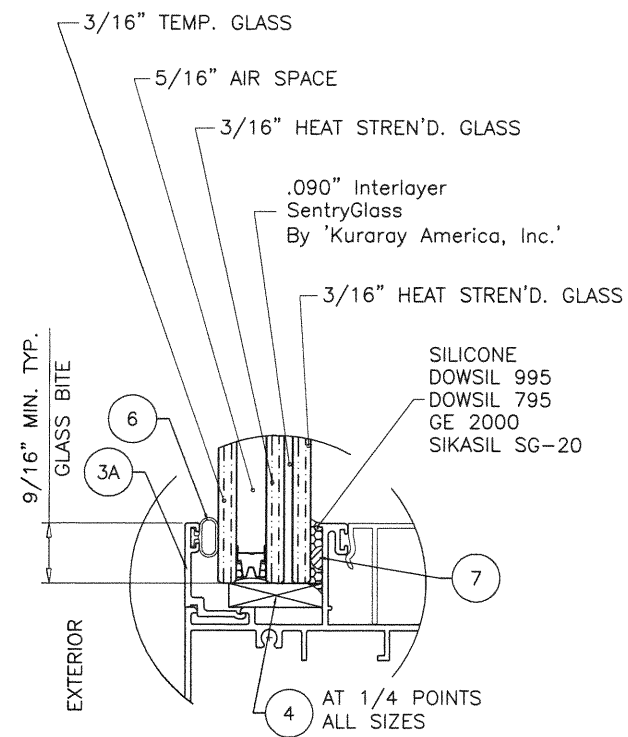
DESIGN LOAD CAPACITY - PSF				
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'		
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	
23"	71"	80.0	95.0	
29"		80.0	95.0	
31"		80.0	95.0	
35"		80.0	95.0	
41"		80.0	95.0	
47"		80.0	95.0	
53"		70.9	84.2	
59"		63.7	75.7	
65"	57.8	68.7		
23"	83"	80.0	95.0	
29"		80.0	95.0	
31"		80.0	95.0	
35"		80.0	95.0	
41"		80.0	95.0	
47"		80.0	95.0	
53"		70.9	84.2	
23"		99"	80.0	95.0
29"	80.0		95.0	
31"	80.0		95.0	
35"	80.0		95.0	
41"	80.0		95.0	
47"	80.0		95.0	
23"	107"		80.0	95.0
29"			80.0	95.0
31"		80.0	95.0	
35"		80.0	95.0	
41"		80.0	95.0	
47"		80.0	95.0	
23"		119"	80.0	95.0
29"			80.0	95.0
31"	80.0		95.0	
35"	80.0		95.0	
41"	80.0		95.0	
47"	80.0		95.0	
23"	35-1/4"		80.0	95.0
29"			80.0	95.0



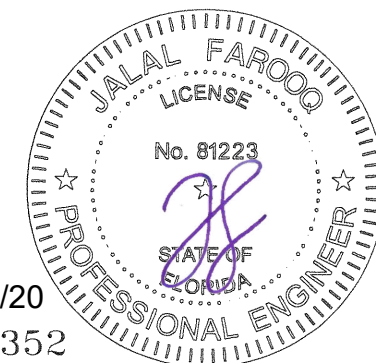
NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



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



GLASS TYPE 'Bi'  
15/16" OVERALL INSUL. LAM. GLASS



8/11/20  
FL #30352

NOTE:  
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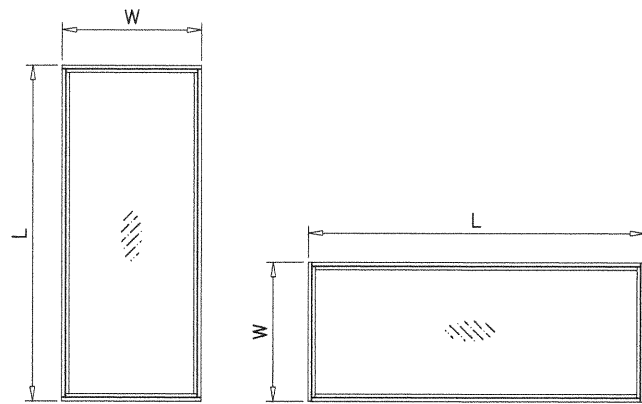
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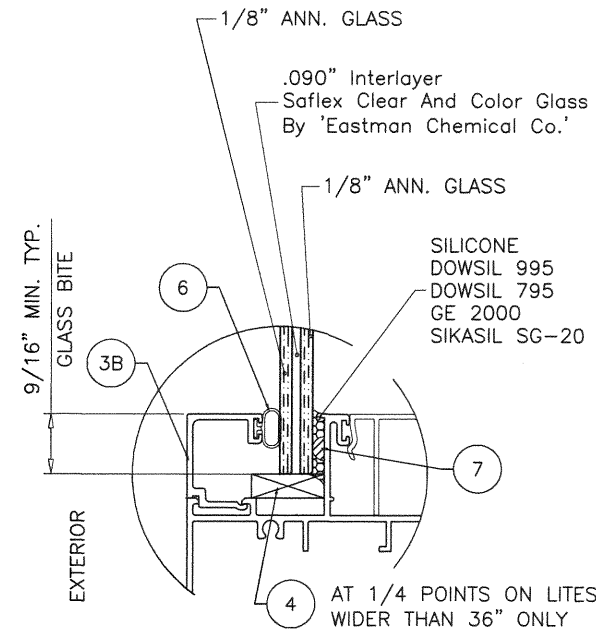
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dr. by:	TARIQ	chk. by:	
drawing no.	19-67F		
sheet	3 of 6		

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18-1/8"	25"	55.0	55.0
25-1/2"		55.0	55.0
36"		55.0	55.0
52-1/8"		55.0	55.0
18-1/8"	37-3/8"	55.0	55.0
25-1/2"		55.0	55.0
36"		55.0	55.0
52-1/8"		55.0	55.0
18-1/8"	49-5/8"	55.0	55.0
25-1/2"		55.0	55.0
36"		55.0	55.0
18-1/8"	55"	55.0	55.0
25-1/2"		55.0	55.0
36"		55.0	55.0
18-1/8"	62"	55.0	55.0
25-1/2"		55.0	55.0
18-1/8"	71"	55.0	55.0
25-1/2"		55.0	55.0
18-1/8"	75"	55.0	55.0
25-1/2"		55.0	55.0

DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPE 'C'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
23"	47"	55.0	55.0
29"		55.0	55.0
31"		55.0	55.0
35"		55.0	55.0
41"		55.0	55.0
23"	59"	55.0	55.0
29"		55.0	55.0
23"	62"	55.0	55.0
29"		55.0	55.0
23"	71"	55.0	55.0
23"	83"	55.0	55.0

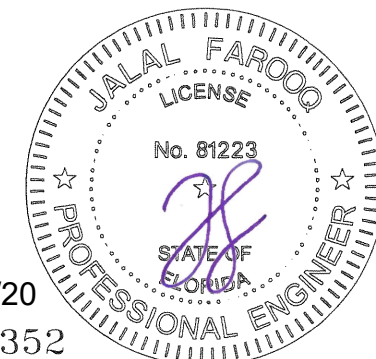


NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE  
ORIENTED VERTICALLY OR HORIZONTALLY  
AS SHOWN ABOVE.



GLASS TYPE 'C'  
5/16" OVERALL LAM. GLASS

NOTE:  
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BASED ON ASTM E1300-09 (3 SEC. GUSTS).



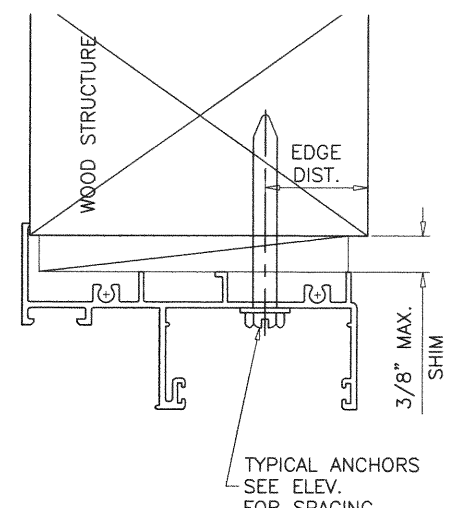
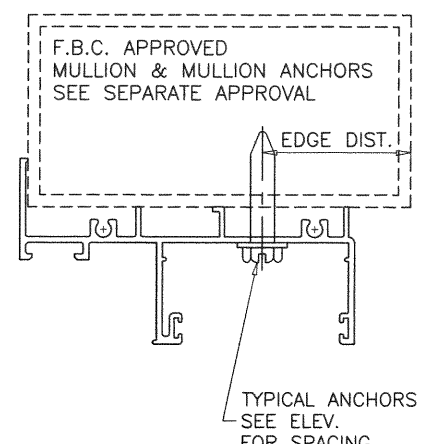
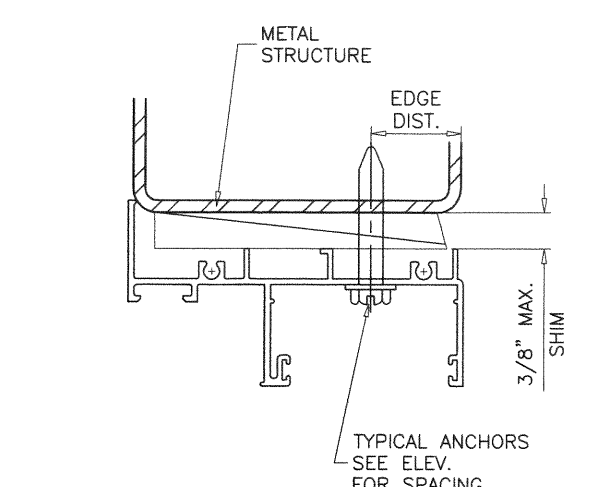
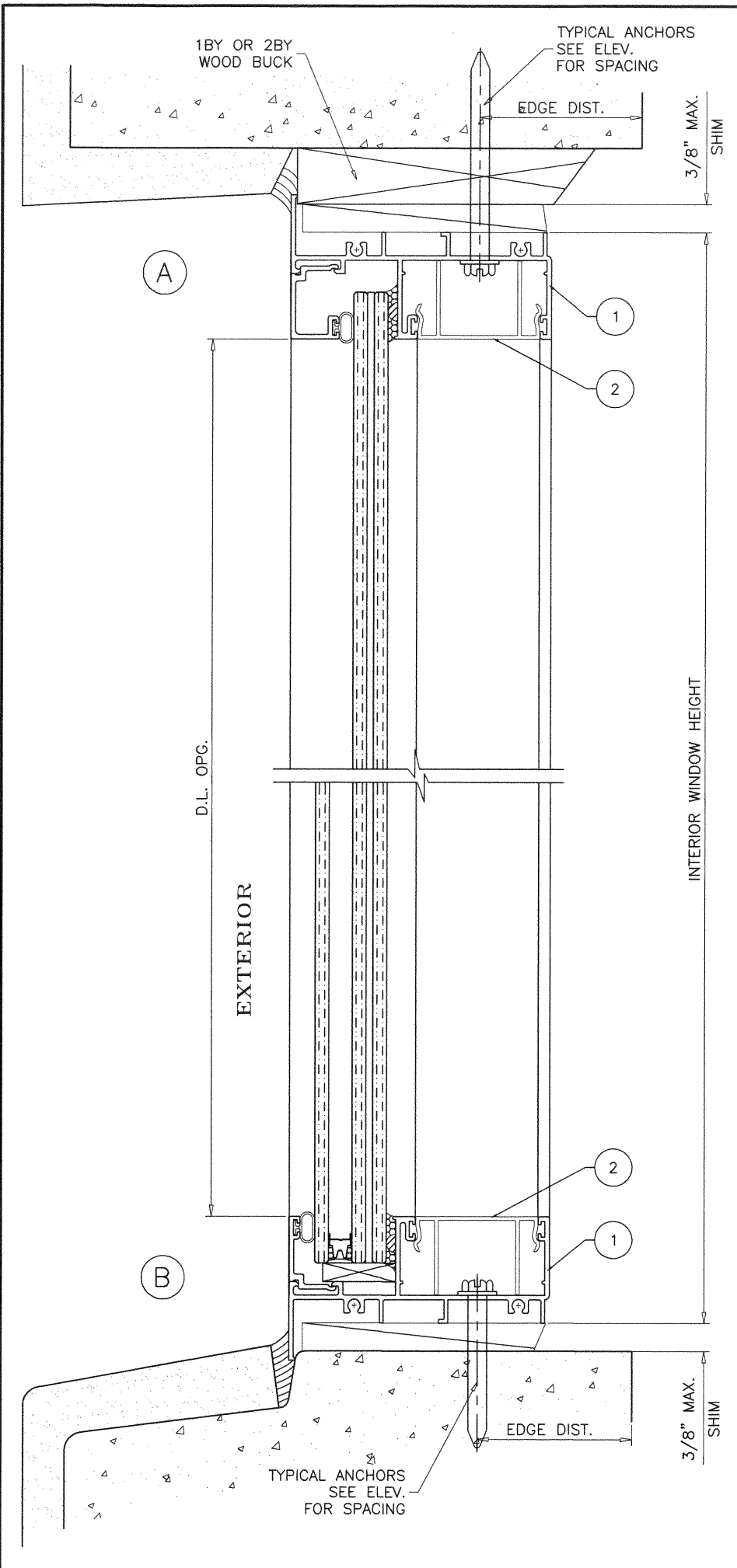
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FL #30352

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revisions:	no	date	by	description

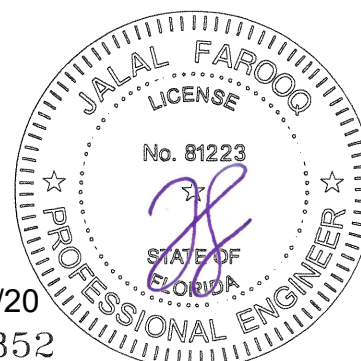
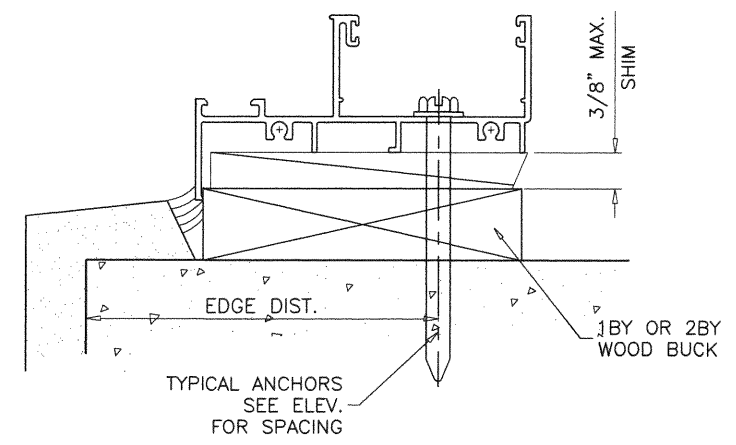
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**19-67F**  
sheet 3.1 of 6



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ALCON WINDOWS' 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 WOOD STRUCTURES  
 2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)  
 THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS  
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 2" 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/SILL/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL 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.



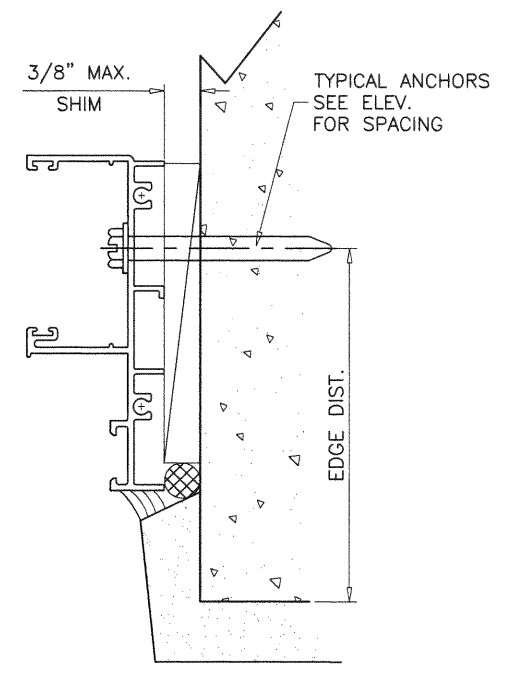
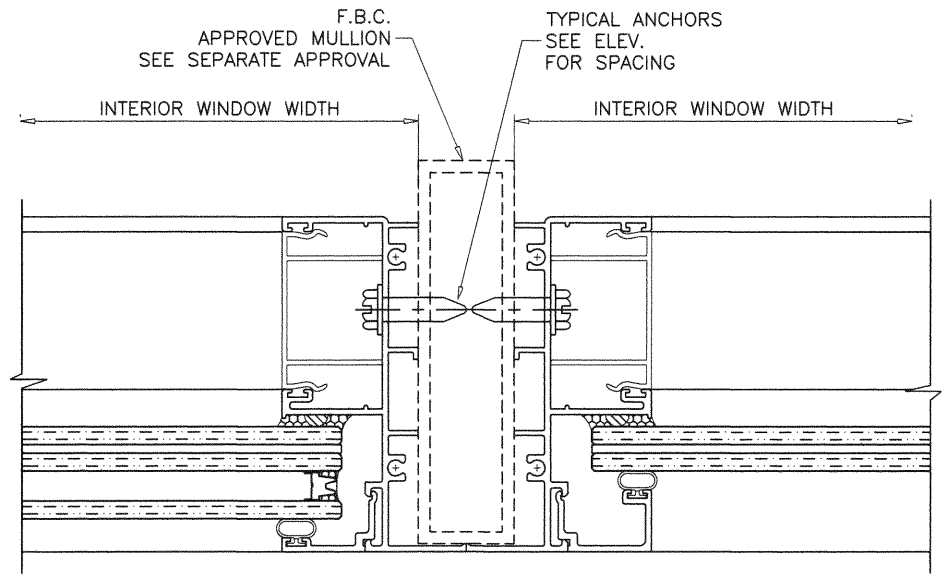
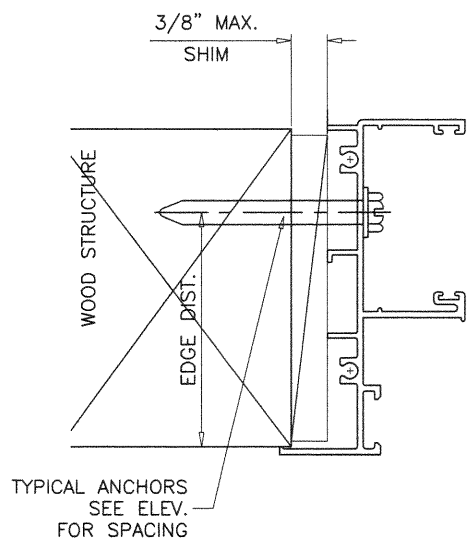
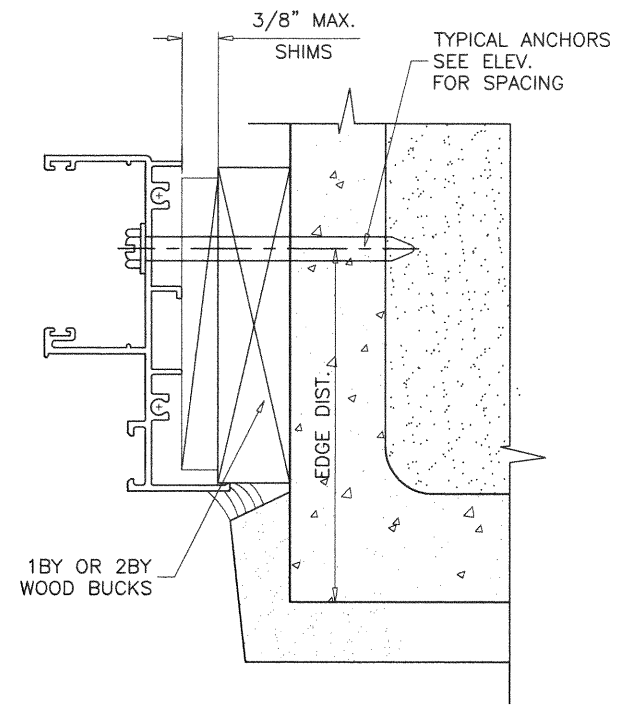
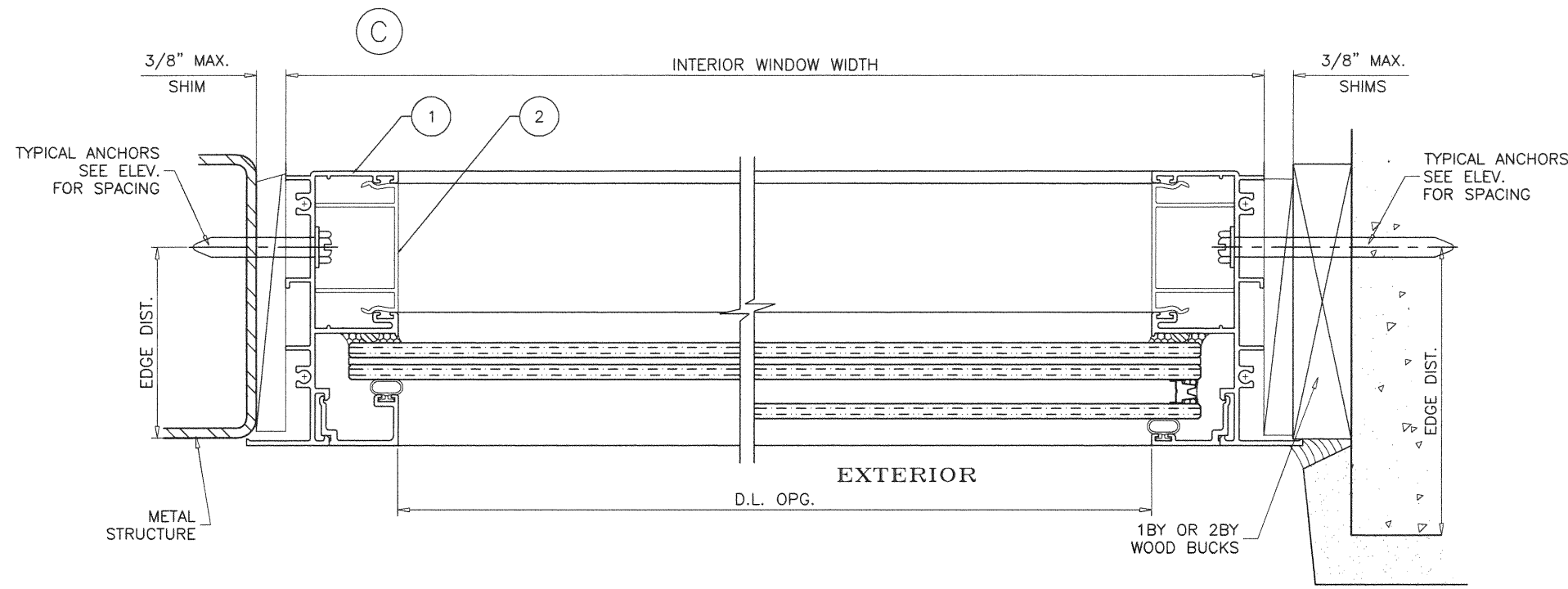
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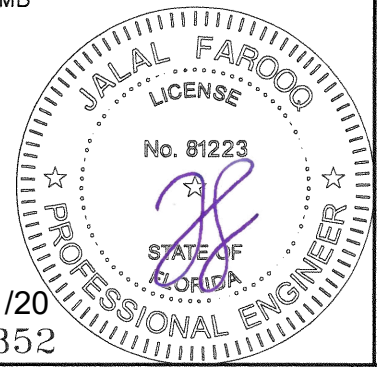
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 7240 N.W. 46th Street  
 Miami, FL. 33166  
 Tel. (305) 553-0229 Fax. (786) 563-8141

revisions:	no	date	by	description

date: 07-25-19  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:  
 drawing no. 19-67F  
 sheet 4 of 6



FLUSH FRAME WITH TRIMMED EXTERIOR FLANGE HEAD/SILL/JAMB



8/11/20  
FL #30352

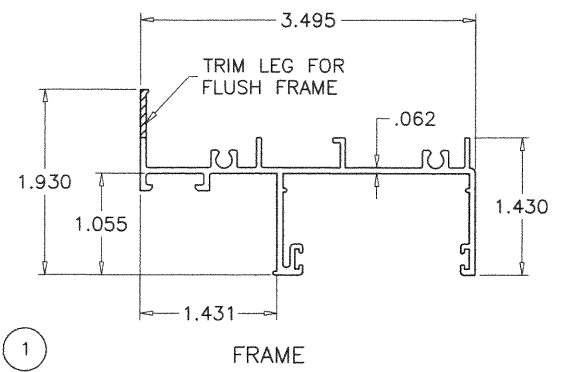
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220 (C.A.N. 3538)  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-9978  
 COMP-ANL 19-67F-AWC

SERIES-100FW ALUMINUM FIXED WDW. (L.M.I.)  
**Alcon Windows And Doors Corp.**  
 7240 N.W. 46th Street  
 Miami, FL. 33166  
 Tel. (305) 553-0229 Fax. (786) 363-8141

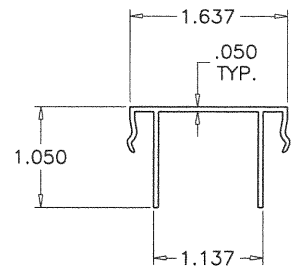
no	date	by	description

date: 07-25-19  
 scale: 1/2" = 1"  
 dr. by: TARIQ  
 chk. by:

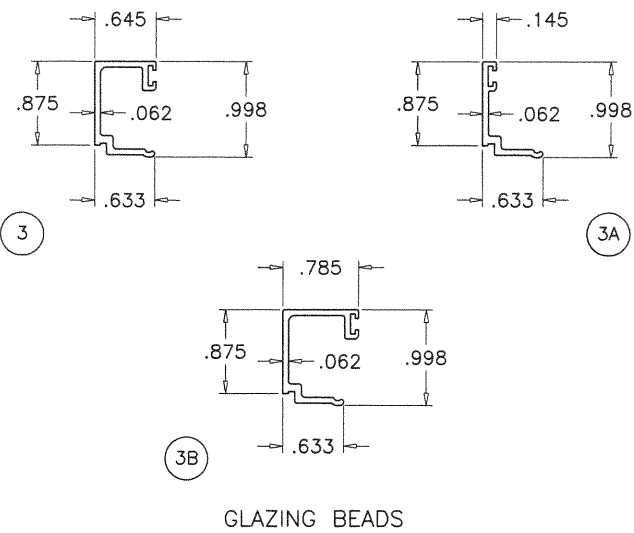
drawing no.  
**19-67F**  
 sheet 5 of 6



1  
FRAME



2  
FRAME COVER

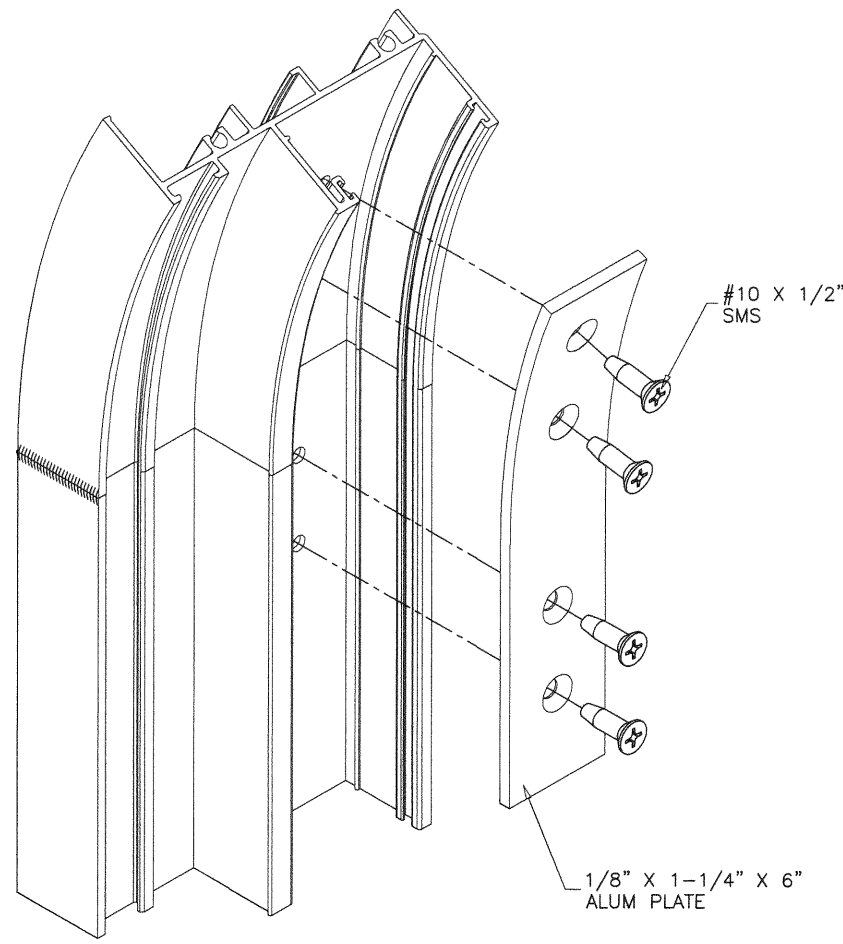


3  
GLAZING BEADS

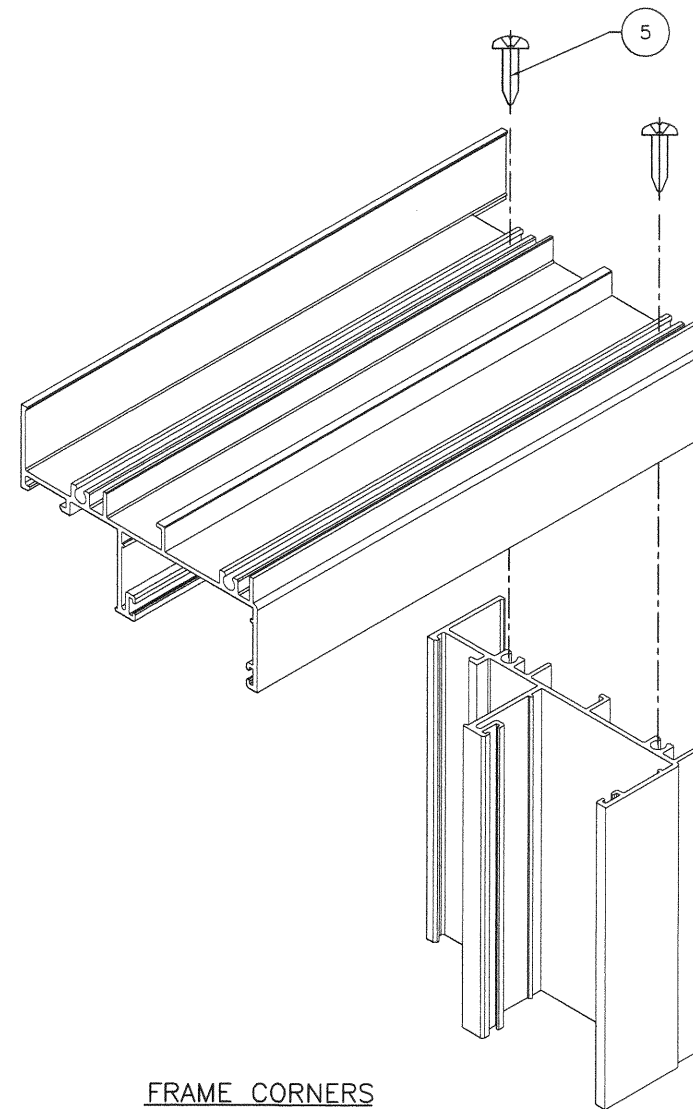
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	116	4	FRAME	6063-T6	PROFILE
2	117	4	FRAME COVER	6063-T6	PROFILE
3	115	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	PROFILE
3A	103	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	PROFILE
3B	119	4	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	PROFILE
4	-	2/	LITE	EPDM	DUROMETER 80±5 SHORE A
5	#10 X 1-1/2"	8/	VENT	ST. STEEL	FH SMS TYPE B
6	E-206	AS RQD.	GLAZING BEAD BULB	TPE/POLYPROP.	SULLIVAN & ASSOC.
7	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE

**SEALANT:**

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



FRAME CORNERS  
CIRCULAR WINDOWS



FRAME CORNERS  
RECT. OR SQUARE WINDOWS



8/11/20  
FL #30352

**af c**  
**AL-FAROOQ CORPORATION**  
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sheet 6 of 6