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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL30354-R4								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Americas Best Windows & Doors								
Address/Phone/Email	1350 Park Central Blvd. S. Pompano Beach, FL 33064 (954) 973-1362 abilitycorporation@live.com								
Authorized Signature	Felix Altamuro abilitycorporation@live.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Fixed								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> 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	07/25/2029								
Validated By	Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL30354_R4_COI_SS - Certificate of Independence 2023.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year								
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	10/18/2023
Date Validated	10/20/2023
Date Pending FBC Approval	11/01/2023
Date Approved	12/13/2023

Summary of Products

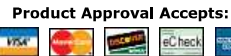
FL #	Model, Number or Name	Description
30354.1	Series 100FW Aluminum Fixed Window	Large missile impact resistant aluminum fixed window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-95 Other: See drawing 19-86F for span vs load combinations and installation details.		Installation Instructions FL30354_R4_II_SS-100FW(LMI)-DWG_19-86F_2023_R1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL30354_R4_AE_SS-100FW(LMI)-PAE_2023_R1.pdf Created by Independent Third Party: Yes
30354.2	Series 100FW Aluminum Fixed Window	Small missile impact resistant aluminum fixed window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-95 Other: See drawing 19-87F for span vs load combinations and installation details		Installation Instructions FL30354_R4_II_SS-100FW(SMI)-DWG_19-87F_2023_R1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL30354_R4_AE_SS-100FW(SMI)-PAE_2023_R1.pdf Created by Independent Third Party: Yes

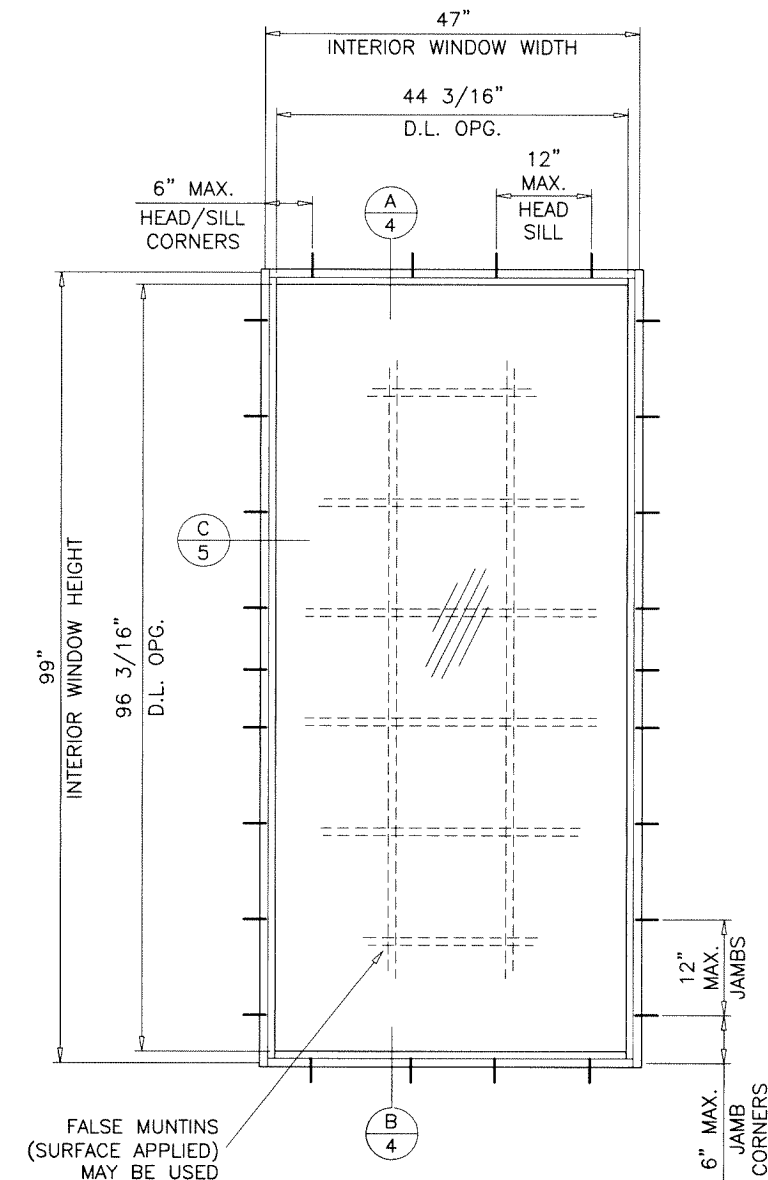
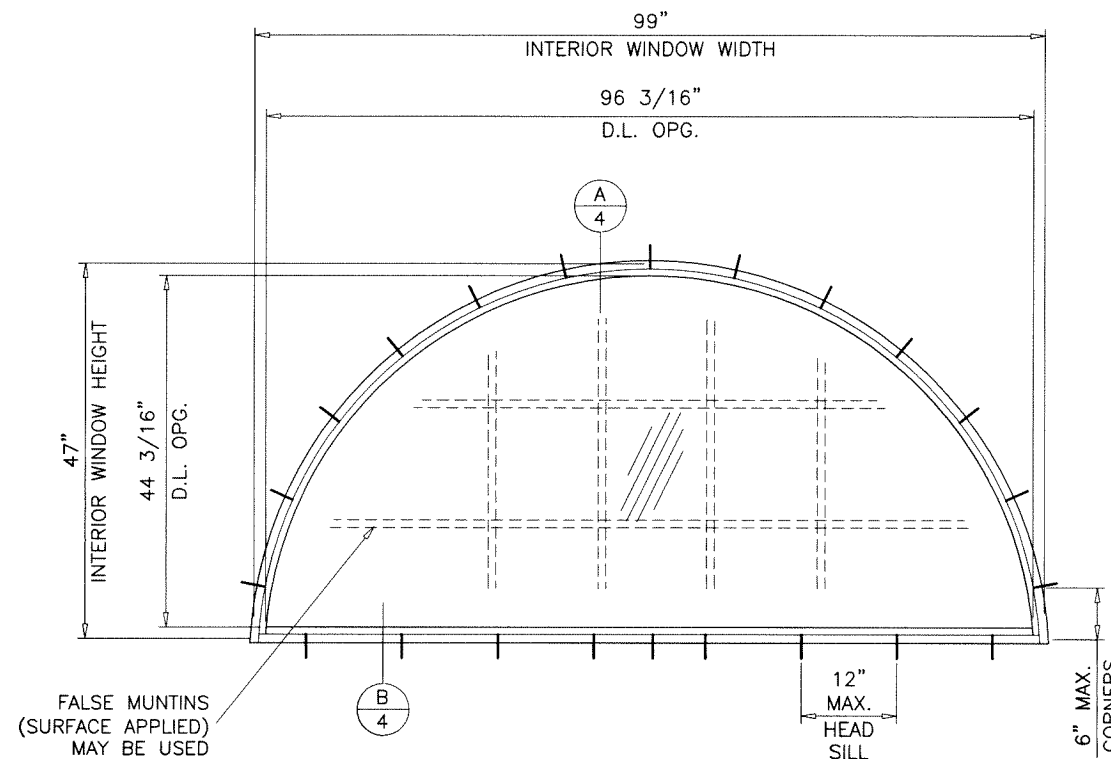
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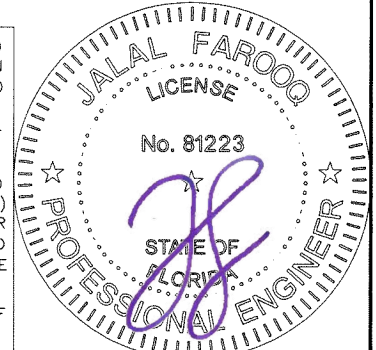


TYPICAL ELEVATIONS
TESTED UNITS

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

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.



**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 2020 (7TH EDITION)/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 2020/2023 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.

af c
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

SERIES-100FW ALUMINUM FIXED WDW. (L.M.I.)
AMERICA'S BEST WINDOWS AND DOORS
1350 Park Central Blvd. S.
Pompano Beach, FL 33064
Tel. (954) 973-1362 Fax. (954) 973-1317

no	date	description
A	12.10.19	GLASS TYPE 'C' ADDED
B	07.01.23	UPDATED TO 2023 FBC
C	10.05.23	MANUF. ADDRESS REVISED

revisions:

date: 08-16-19
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

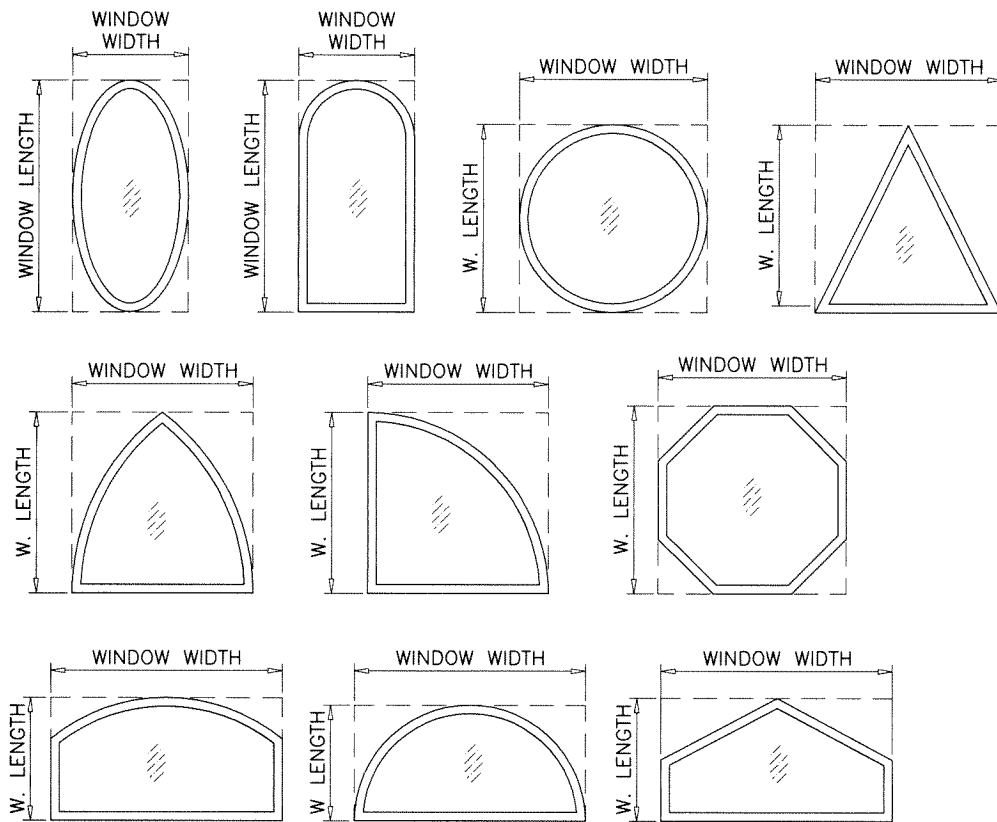
drawing no.
19-86F

sheet 1 of 6

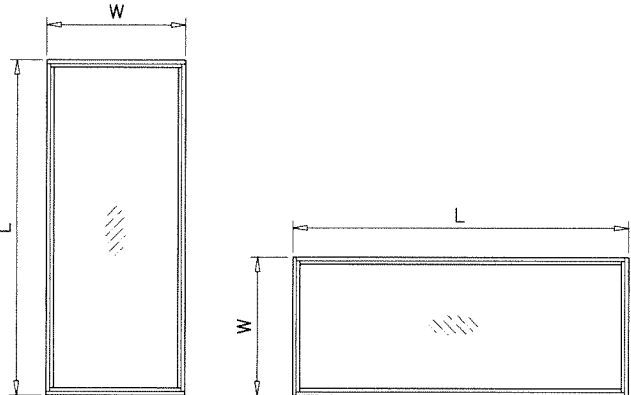
COMP-ANL\19-86F-ABW

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

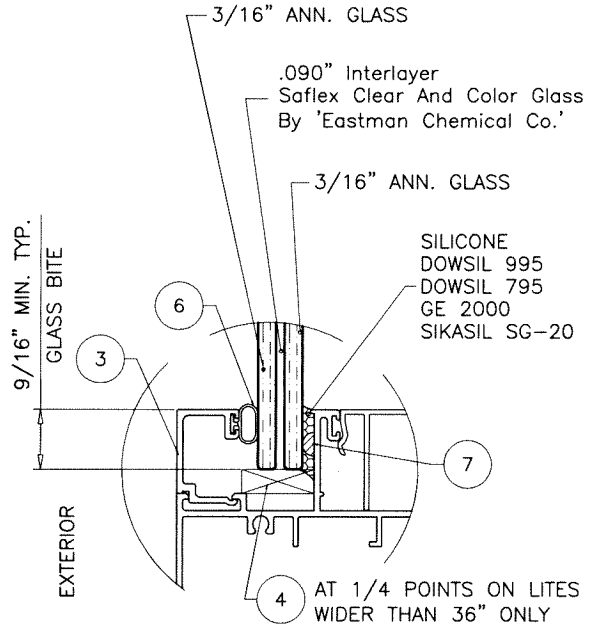
DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'A' & 'Ai'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
23"	47"	70.0	70.0
29"		70.0	70.0
35-1/4"		70.0	70.0
41"		60.2	60.2
23"	59"	70.0	70.0
29"		70.0	70.0
23"		70.0	70.0
29"		70.0	70.0
23"	62"	70.0	70.0
29"		70.0	70.0
23"		70.0	70.0
29"		70.0	70.0
23"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



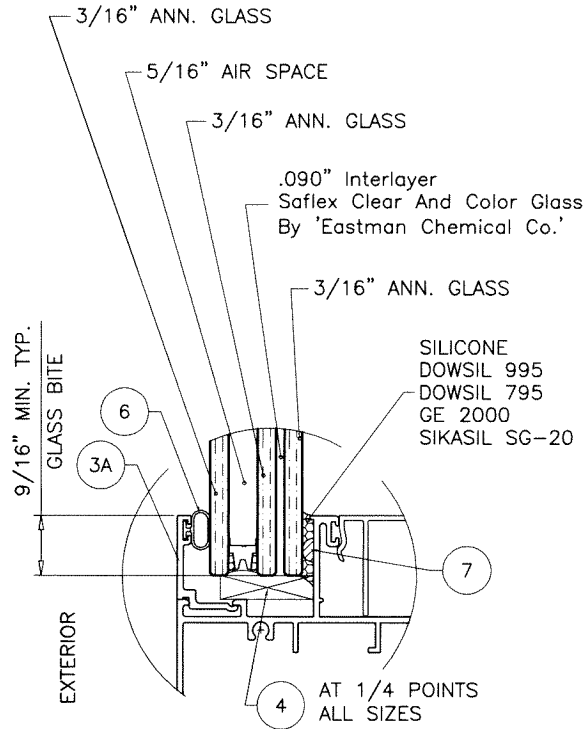
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.



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



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

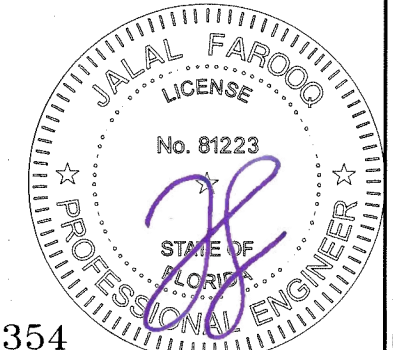


GLASS TYPE 'Ai'
15/16" OVERALL INSUL. LAM. GLASS

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

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

Sealed: 10/16/2023



FL #30354

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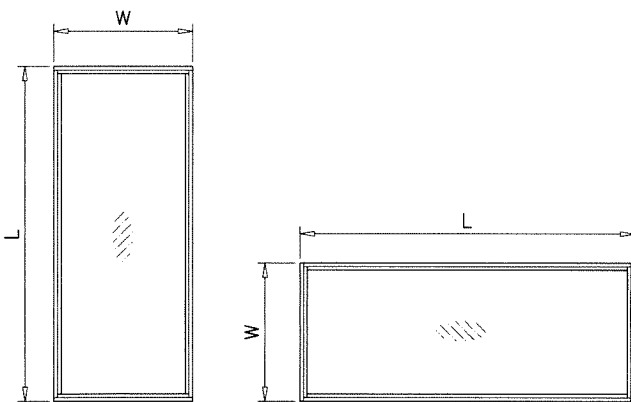
revisions:		no	date	by	description

date: 08-16-19
scale: 1/2" = 1"
dr. by: TARIQ
chk. by:
drawing no. 19-86F
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

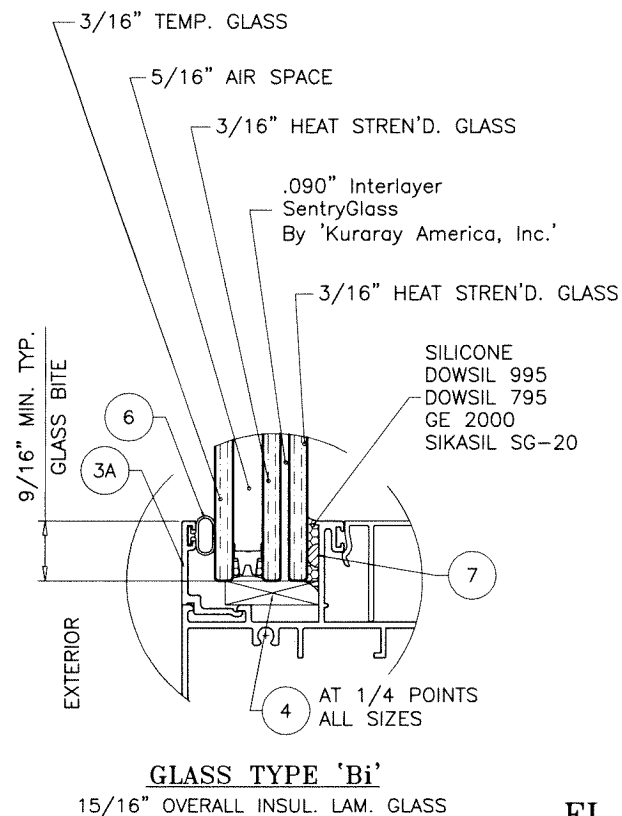
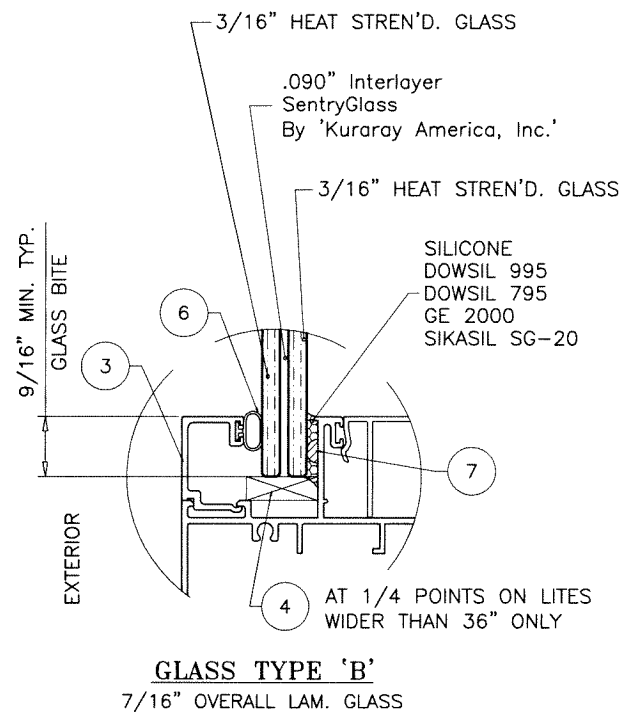
DESIGN LOAD CAPACITY - PSF			
INTERIOR FRAME DIMS.		GLASS TYPES 'B' & 'Bi'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)
23"	47"	80.0	95.0
29"		80.0	95.0
31"		80.0	95.0
35"		80.0	95.0
41"		80.0	95.0
47"		80.0	95.0
53"		80.0	95.0
59"		80.0	95.0
65"		80.0	95.0
71"		80.0	95.0
77"	80.0	95.0	
23"	59"	80.0	95.0
29"		80.0	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"		63.7	75.7
71"		63.7	75.7
77"	63.7	75.7	
23"	62"	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	
71"		80.0	95.0	
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
35-1/4"			80.0	95.0



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).



Sealed: 10/16/2023



FL #30354

afC
AL-FAROOQ CORPORATION
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COMP-ANL 19-86F-ABW

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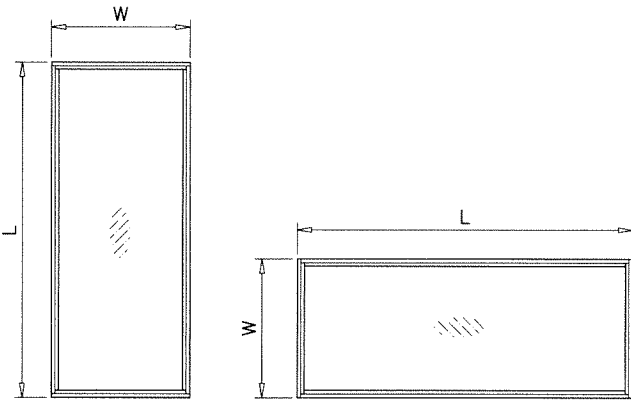
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dr. by: TARIQ
chk. by:

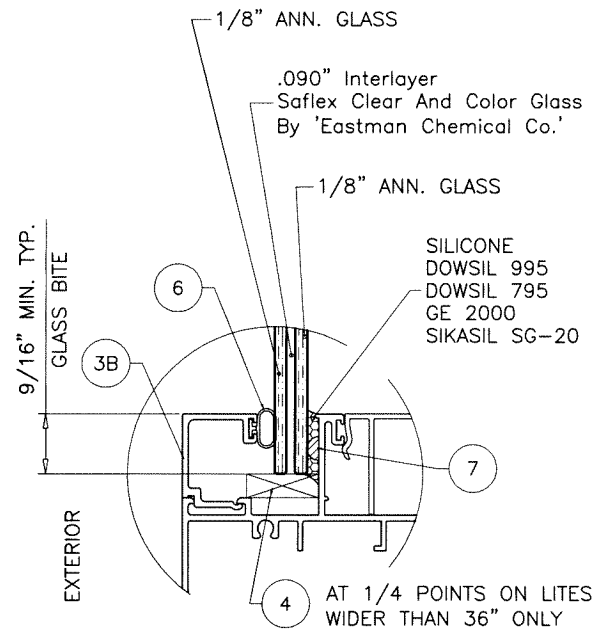
drawing no.
19-86F
sheet 3 of 6

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"		55.0	55.0
23"	83"	55.0	55.0
23"		55.0	55.0



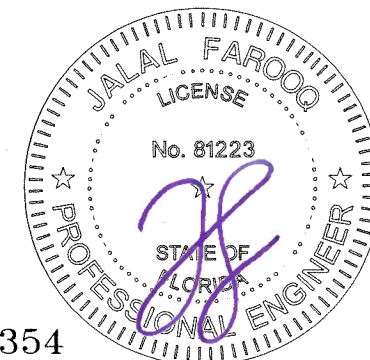
NOTE:
WIDTH AND LENGTH DIMENSIONS CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY
AS SHOWN ABOVE.



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

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

Sealed: 10/16/2023



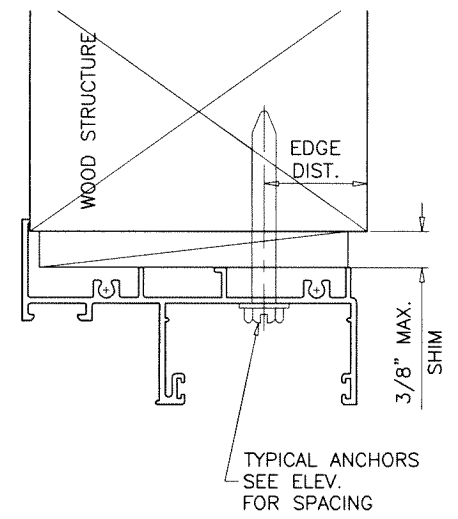
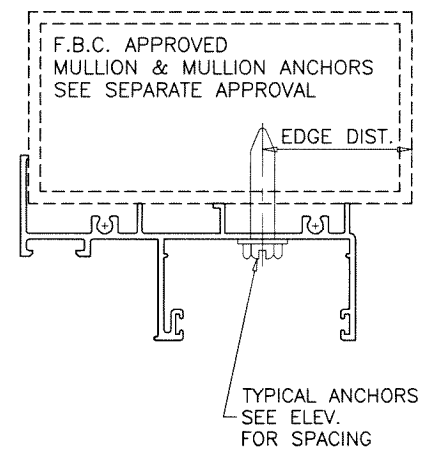
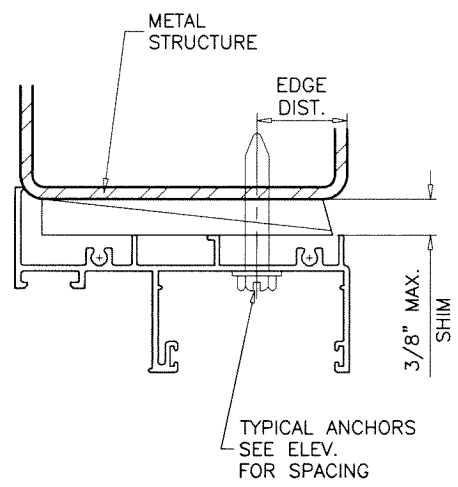
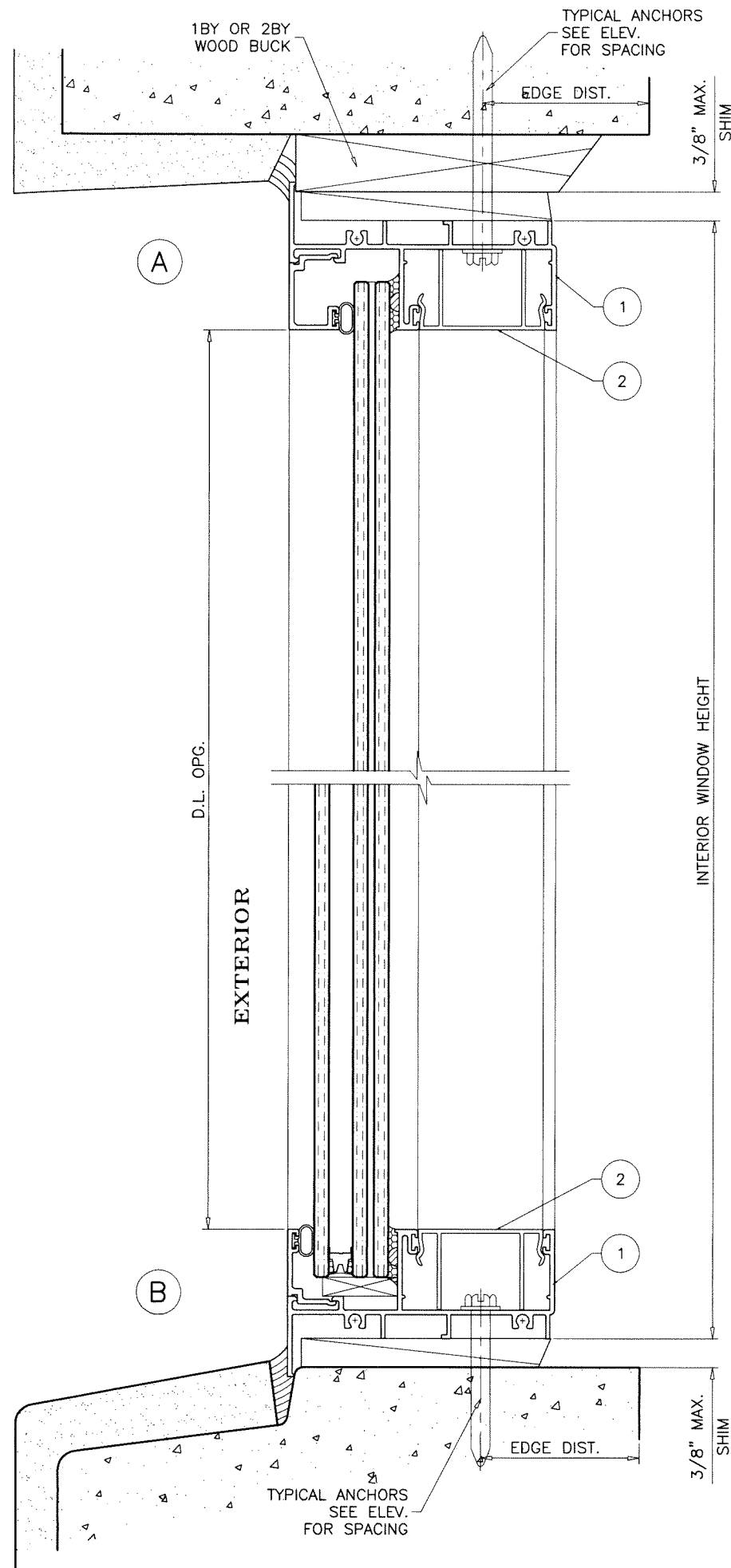
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL 19-86F-ABW

SERIES-100FW ALUMINUM FIXED WDW. (L.M.I.)
AMERICA'S BEST WINDOWS AND DOORS
1350 Park Central Blvd. S.
Pompano Beach, FL 33064
Tel. (954) 973-1362 Fax. (954) 973-1317

revisions:	no	date	description

date: 08-16-19	scale: 1/2" = 1"	dr. by: TARIQ	chk. by:
drawing no. 19-86F			
sheet 3.1 of 6			



WOOD BUCKS AND METAL STRUCTURE NOT BY 'AMERICA'S BEST' 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)

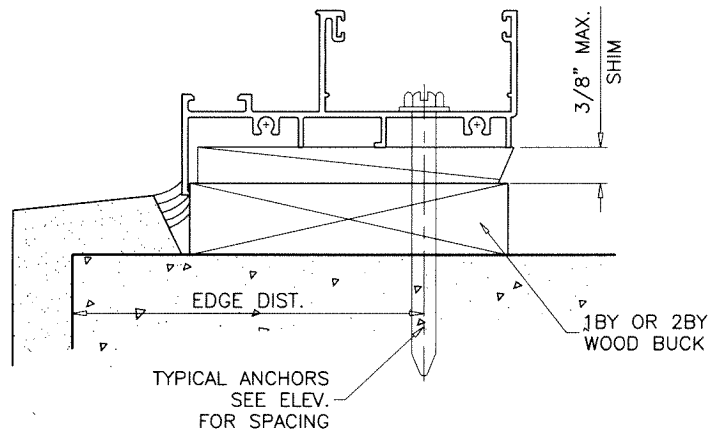
DIRECTLY INTO CONCRETE OR BLOCKS
 2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

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)

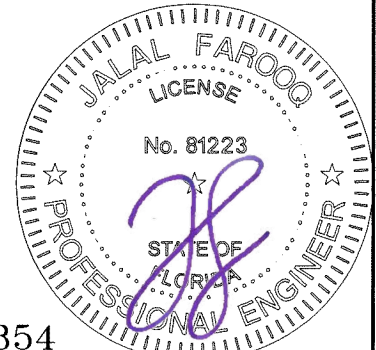
TYPICAL EDGE DISTANCE

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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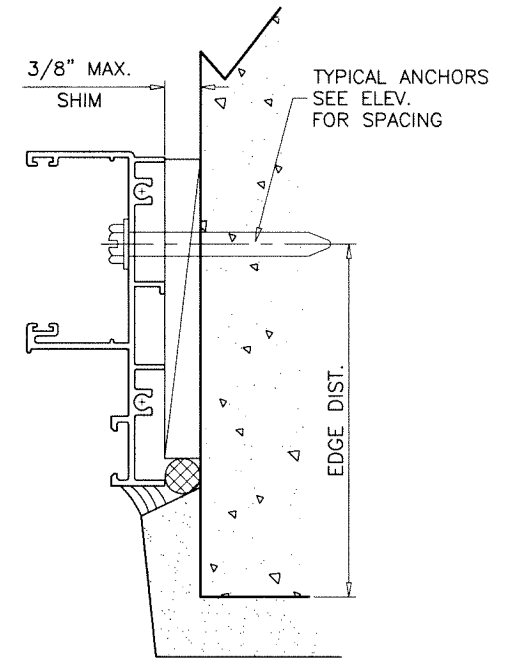
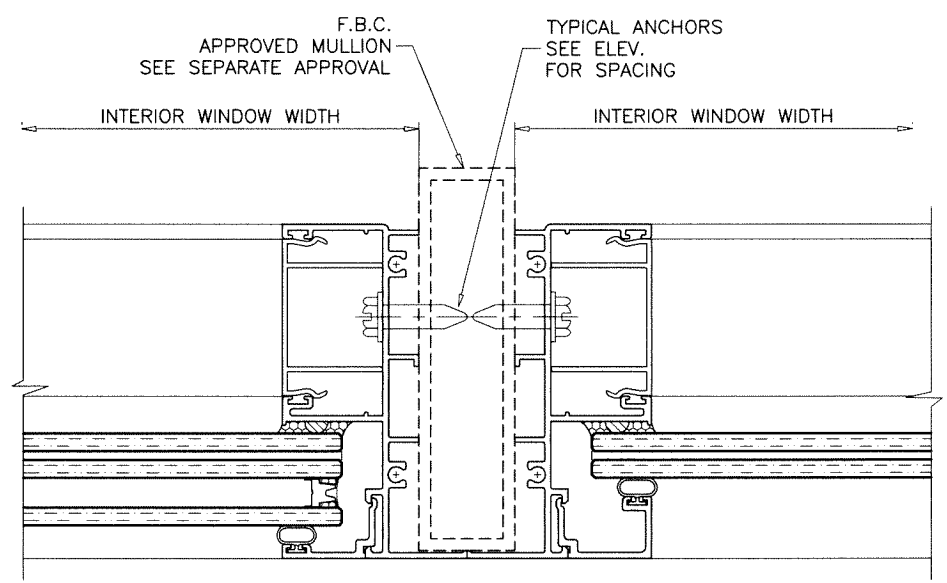
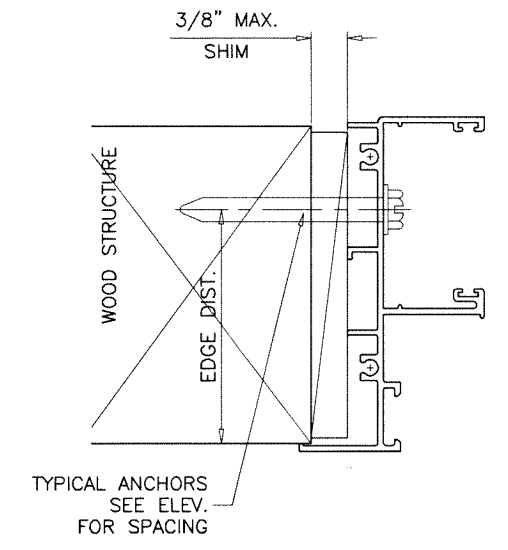
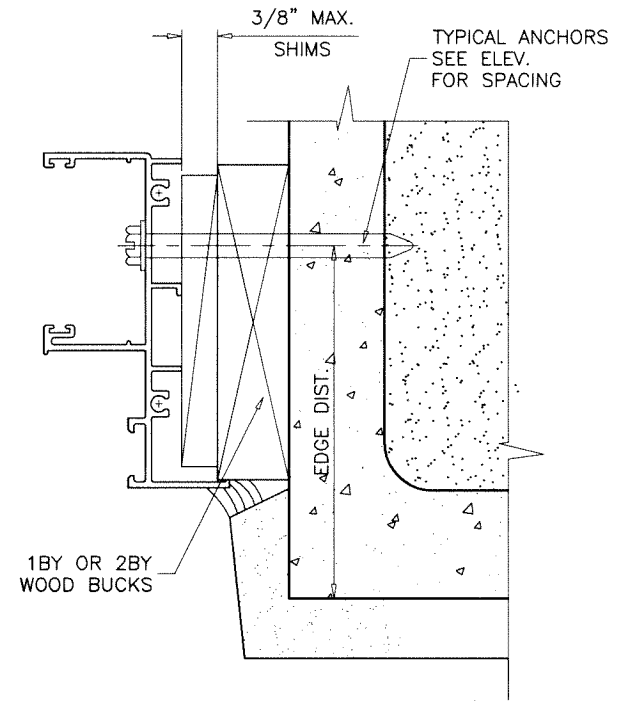
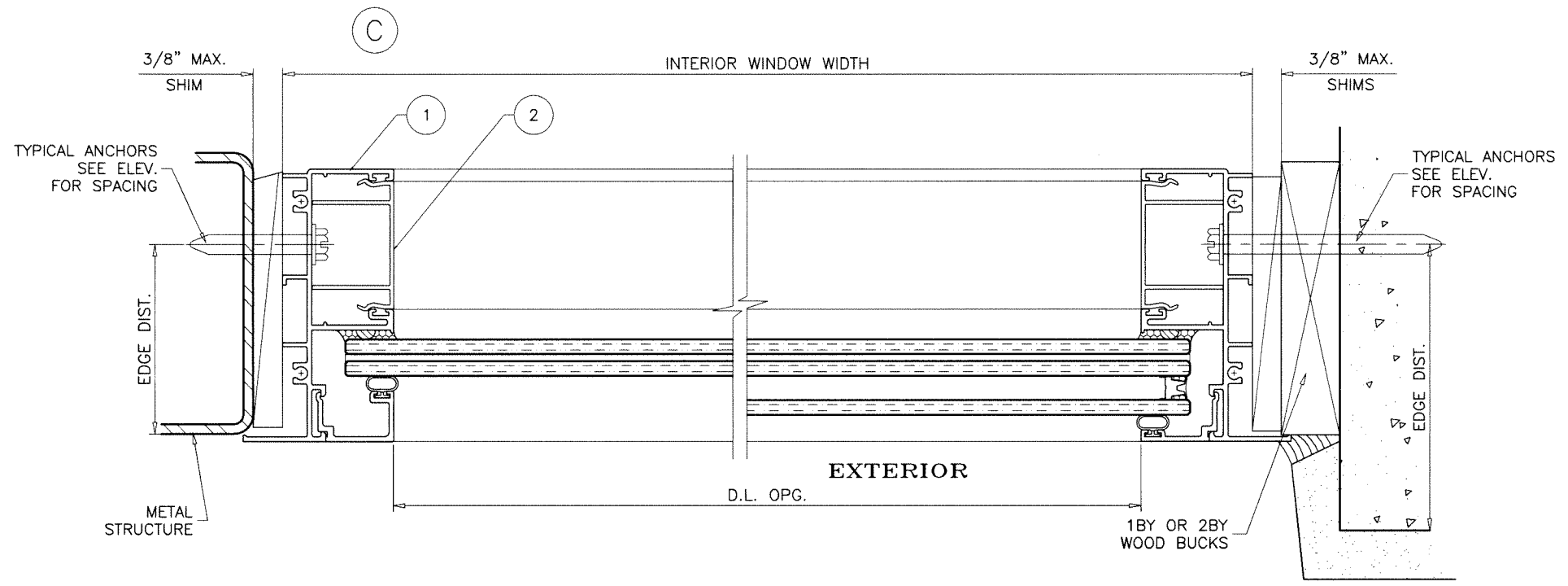


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dr. by:	TARIQ	chk. by:		
drawing no.	19-86F			
sheet	4 of 6			



FLUSH FRAME WITH TRIMMED EXTERIOR FLANGE HEAD/SILL/JAMB

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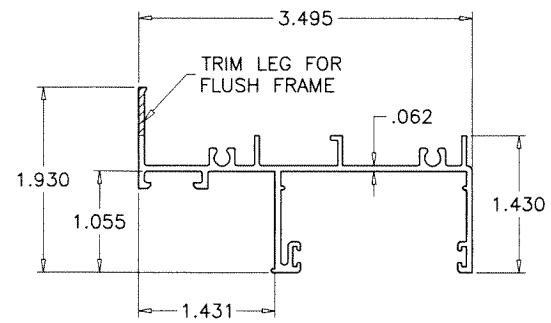
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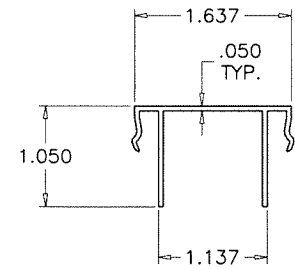
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revisions:		date		by description	
no	date	by	description	no	date

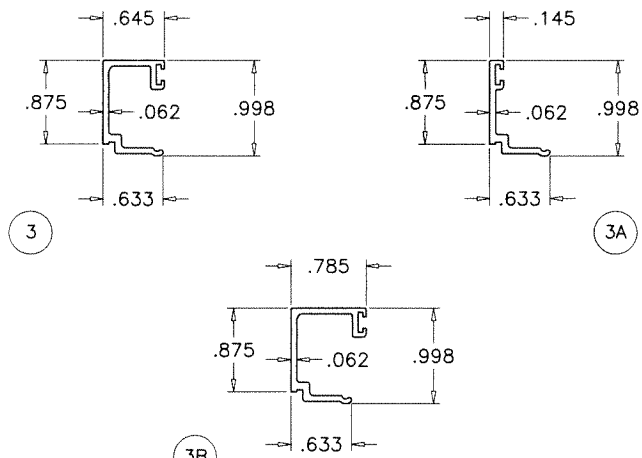
date: 08-16-19
 scale: 1/2" = 1"
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 drawing no.
19-86F
 sheet 5 of 6



1 FRAME



2 FRAME COVER

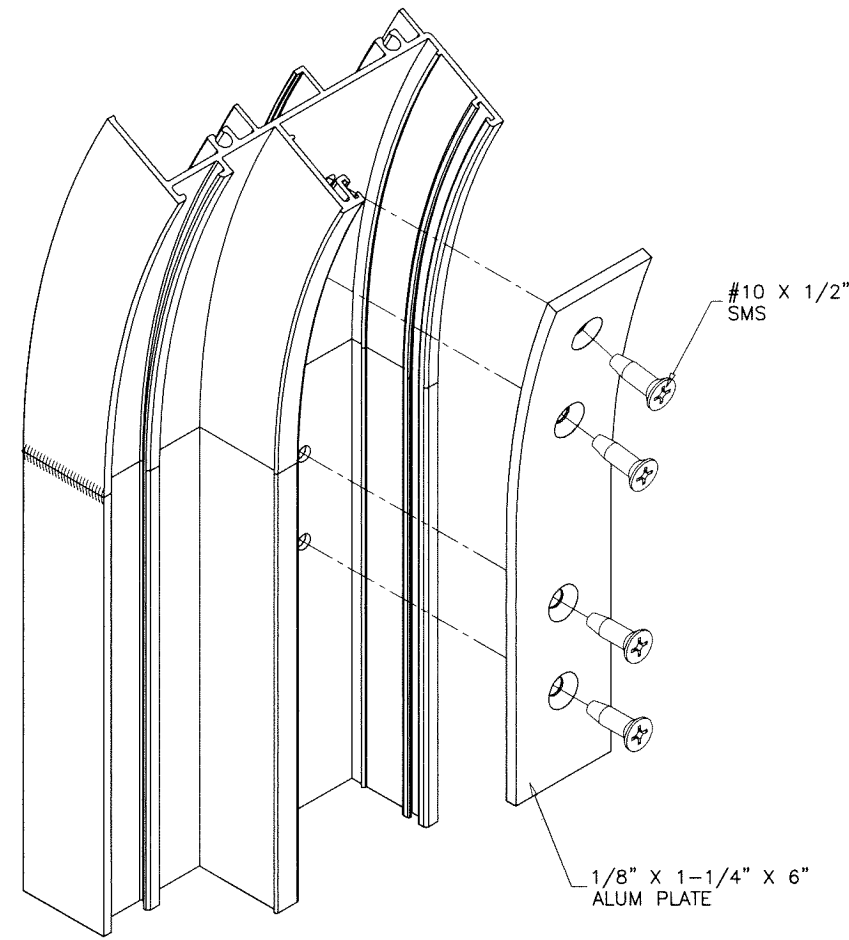


3 GLAZING BEADS

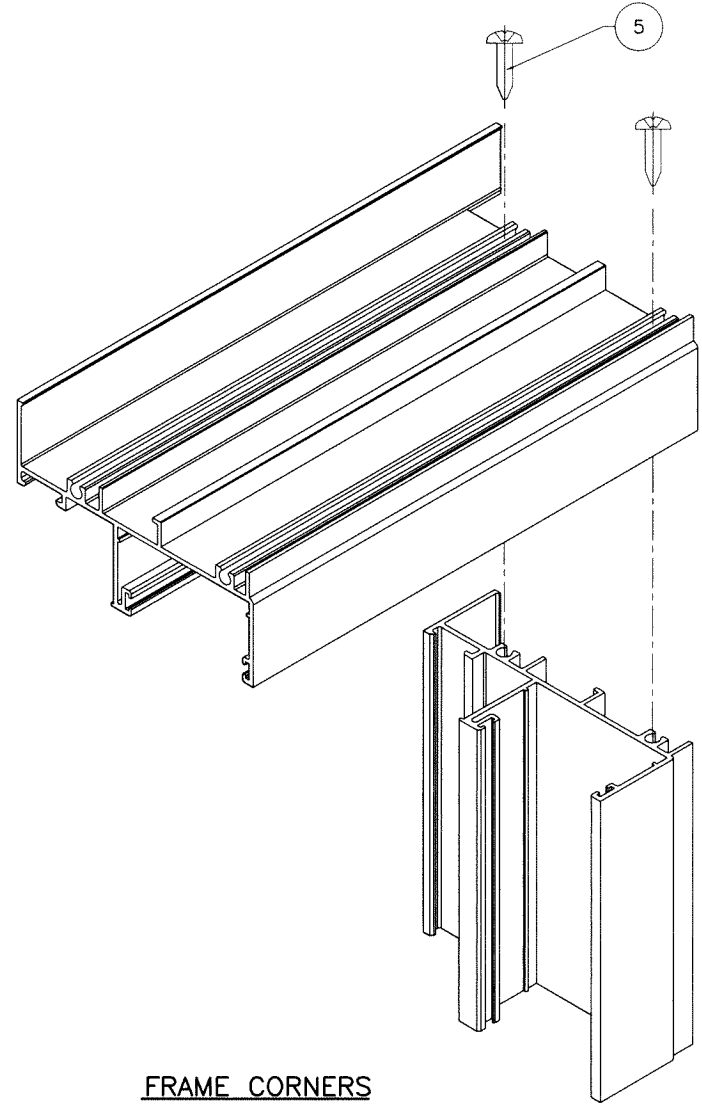
ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS	
1	116	4	FRAME	6063-T6	PROFILE	
2	117	4	FRAME COVER	6063-T6	PROFILE	
3	115	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	PROFILE	
3A	103	4	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	PROFILE	
3B	119	4	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	PROFILE	
4	-	2/	LITE	EPDM	DUROMETER 80±5 SHORE A	
5	#10 X 1-1/2"	8/	VENT	FRAME ASSEMBLY SCREW	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:

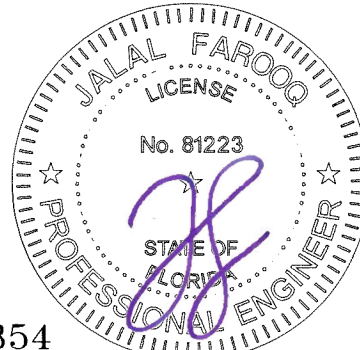
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED GENERAL PURPOSE SILICONE.



FRAME CORNERS
CIRCULAR WINDOWS



FRAME CORNERS
RECT. OR SQUARE WINDOWS



Sealed: 10/16/2023

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 sheet 6 of 6