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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL46578								
Application Type	New								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	<input type="checkbox"/>								
Product Manufacturer	Sunshine Windows Manufacturing Inc.								
Address/Phone/Email	1745 West 33rd Place Hialeah, FL 33012 (305) 364-9952 Ext 109 noel_m_2001@yahoo.com								
Authorized Signature	Jalal Farooq veronica@afceng.com								
Technical Representative									
Address/Phone/Email									
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Single Hung								
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	02/28/2029								
Validated By	Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received								
Certificate of Independence	FL46578_R0_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 02/29/2024

Date Validated 02/29/2024

Date Pending FBC Approval 03/05/2024

Date Approved 04/16/2024

Summary of Products

FL #	Model, Number or Name	Description
46578.1	Grandeur Series 2023 Aluminum Single Hung Window	Large missile impact resistant aluminum single hung window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-90 Other: See drawings 23-61F for span vs load combination and installation details.		Installation Instructions FL46578_R0_II_SS - Grandeur 2023 SH (LMI) - DWG 23-61F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL46578_R0_AE_SS - Grandeur 2023 SH (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes
46578.2	Grandeur Series 2023 Aluminum Single Hung Window	Non-impact resistant aluminum single hung window.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +90/-100 Other: See drawings 23-63F for span vs load combination and installation details.		Installation Instructions FL46578_R0_II_SS - Grandeur 2023 SH (NI) - DWG 23-63F 2023.pdf Verified By: Jalal Farooq PE # 81223 Created by Independent Third Party: Yes Evaluation Reports FL46578_R0_AE_SS - Grandeur 2023 SH (NI) - PAE 2023.pdf Created by Independent Third Party: Yes

[Back](#) [Next](#)

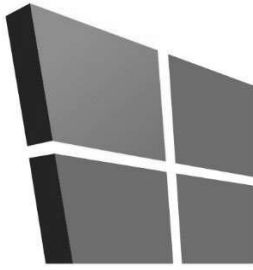
Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

January 23, 2023

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

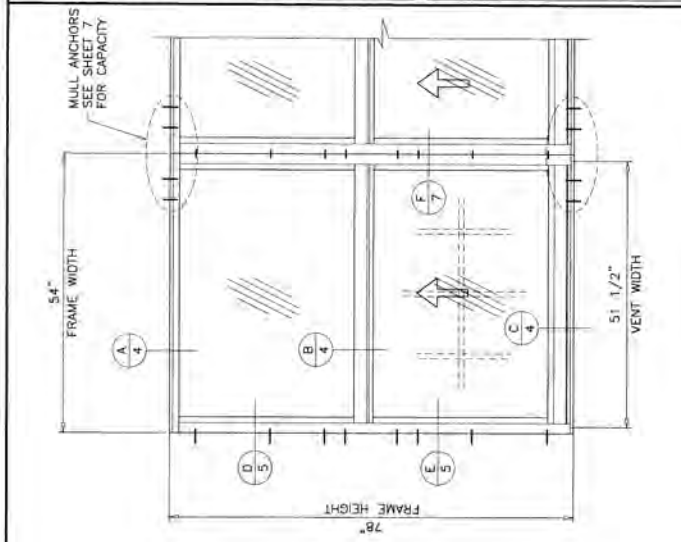
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,

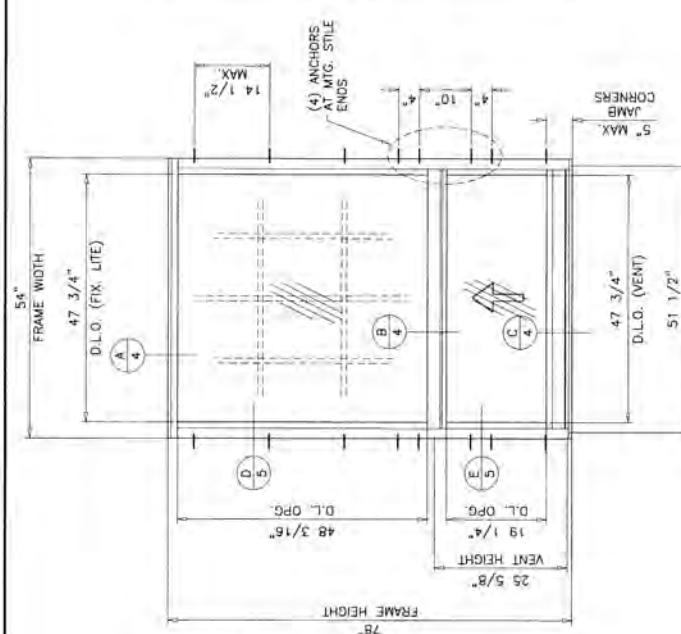


Jalal Farooq, P.E.
CFO

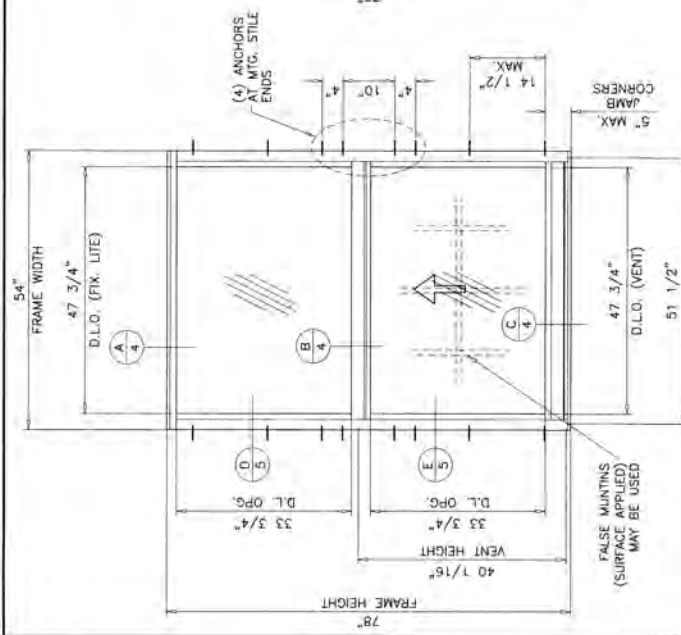
Sealed: 1/23/2023



MULLION WDW. OPTION
 (SEE SHEET 7 FOR DETAILS)



TYPICAL ELEVATION
 (UNEQUAL LITES WDW.)



TYPICAL ELEVATION
 (EQUAL LITES WDW.)
 (TESTED UNIT)

GRANDEUR SERIES-2023 ALUMINUM SINGLE HUNG 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 S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN.
 FOR COMBINATIONS OF S.H./S.H. WINDOWS IN MODULES OF TWO OR MORE WDW. USING SUNSHINE CUSTOM MULLION IN BETWEEN SEE CHART ON SHEET 6.
 LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

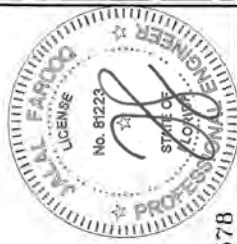
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
 1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE 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 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.

THESE WINDOWS ARE NOT RATED FOR IMPACT.
 INSTALLATION OF THIS PRODUCT IN THE HVHZ AREA REQUIRES THE USE OF APPROVED SHUTTERS OR EXTERNAL PROTECTION DEVICES COMPLYING WITH HVHZ REQUIREMENTS.
 INSTALLATION OF THIS SYSTEM OUTSIDE THE HVHZ AREA MUST MEET THE APPLICABLE REQUIREMENTS FOR WIND BORNE DEBRIS PROTECTION.

Sealed: 2/29/2024 FL #46578



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 PROFESSIONAL ENGINEER (P.E.) WHICH WILL BECOME THE ENGINEER OF RECORD (EOR) FOR THE PROJECT. THE EOR SHALL 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.



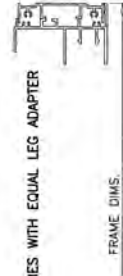
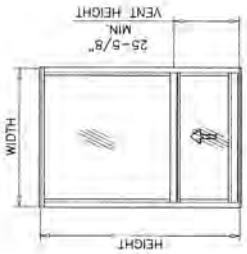
Sealed: 2/29/2024
 FL #46578

UNEQUAL LITES (ORIEL TYPE) WINDOWS
 DESIGN LOAD CAPACITY - PSF

FRAME DIMS. WIDTH HEIGHT	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)
24" 60"	90.0	100.0	75.0	75.0	90.0	100.0
30" 60"	90.0	100.0	75.0	75.0	90.0	100.0
32" 60"	90.0	100.0	75.0	75.0	90.0	100.0
36" 60"	90.0	100.0	75.0	75.0	90.0	100.0
42" 60"	90.0	100.0	75.0	75.0	90.0	100.0
48" 60"	90.0	100.0	75.0	75.0	90.0	100.0
54" 60"	90.0	100.0	75.0	75.0	90.0	100.0
24" 72"	90.0	100.0	75.0	75.0	90.0	100.0
30" 72"	90.0	100.0	75.0	75.0	90.0	100.0
32" 72"	90.0	100.0	75.0	75.0	90.0	100.0
36" 72"	90.0	100.0	75.0	75.0	90.0	100.0
42" 72"	90.0	100.0	75.0	75.0	90.0	100.0
24" 78"	90.0	100.0	75.0	75.0	90.0	100.0
30" 78"	90.0	100.0	75.0	75.0	90.0	100.0
32" 78"	90.0	100.0	75.0	75.0	90.0	100.0
36" 78"	90.0	100.0	75.0	75.0	90.0	100.0
42" 78"	90.0	100.0	75.0	75.0	90.0	100.0
24" 84"	90.0	100.0	75.0	75.0	90.0	100.0
30" 84"	90.0	100.0	75.0	75.0	90.0	100.0
32" 84"	90.0	100.0	75.0	75.0	90.0	100.0
36" 84"	90.0	100.0	75.0	75.0	90.0	100.0
24" 96"	90.0	100.0	75.0	75.0	90.0	100.0
30" 96"	90.0	100.0	75.0	75.0	90.0	100.0

UNEQUAL LITES (ORIEL TYPE) WINDOWS
 DESIGN LOAD CAPACITY - PSF

FRAME DIMS. WIDTH HEIGHT	GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPE 'C'	
	EXT(+)	INT(-)	EXT(+)	INT(-)	EXT(+)	INT(-)
19-1/8" 56"	90.0	100.0	75.0	75.0	90.0	100.0
26-1/2" 37"	90.0	100.0	75.0	75.0	90.0	100.0
53-1/8" 19-1/8"	90.0	100.0	75.0	75.0	90.0	100.0
26-1/2" 37"	90.0	100.0	75.0	75.0	90.0	100.0
53-1/8" 19-1/8"	90.0	100.0	75.0	75.0	90.0	100.0
19-1/8" 37"	90.0	100.0	75.0	75.0	90.0	100.0
26-1/2" 37"	90.0	100.0	75.0	75.0	90.0	100.0
53-1/8" 19-1/8"	90.0	100.0	75.0	75.0	90.0	100.0
19-1/8" 37"	90.0	100.0	75.0	75.0	90.0	100.0
26-1/2" 37"	90.0	100.0	75.0	75.0	90.0	100.0
53-1/8" 19-1/8"	90.0	100.0	75.0	75.0	90.0	100.0



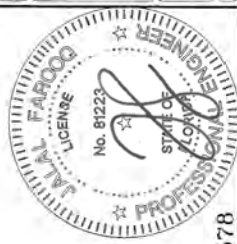
NOTE:
 GLASS CAPACITIES ON THIS SHEET ARE
 BASED ON ASTM E1300-09 (3 SEC. GUSTS)
 AND FLORIDA BUILDING COMMISSION
 DECLARATORY STATEMENT DCA05-DEC-219

COMP-ANL\23-63F-SWM
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

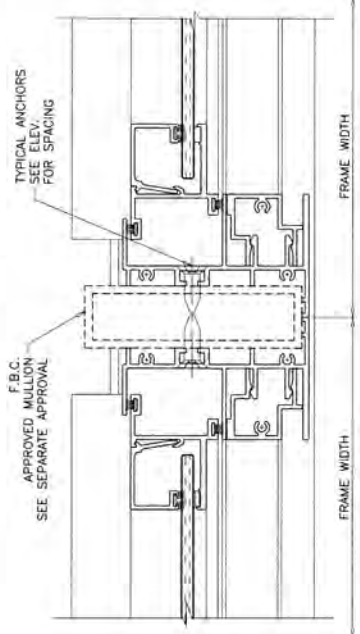
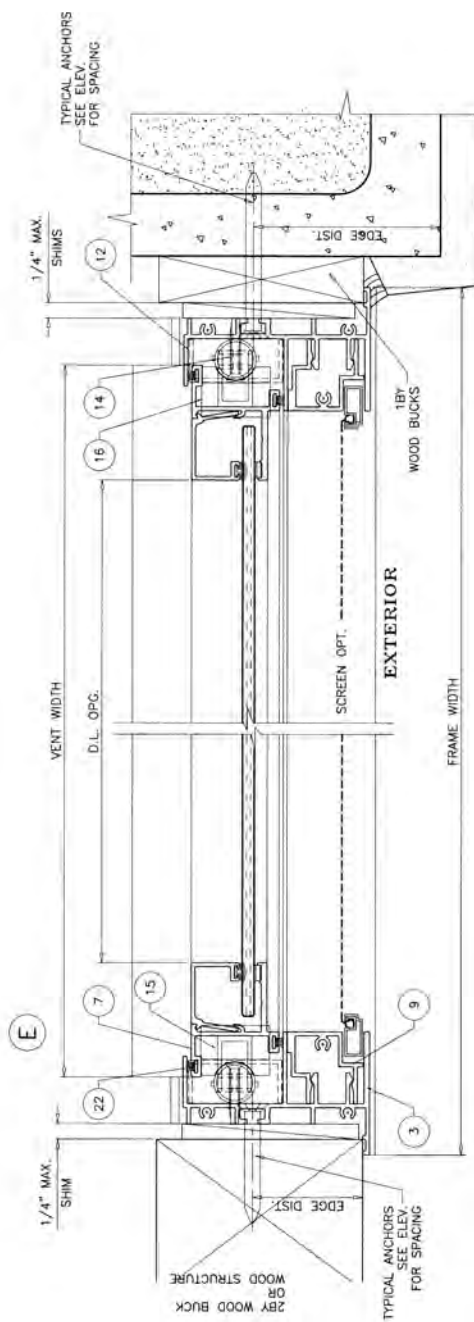
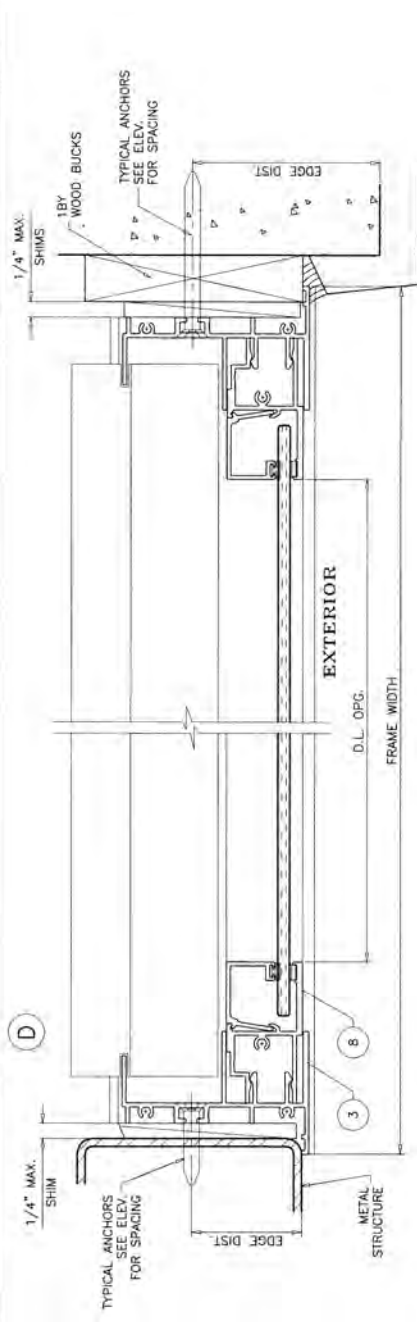
GRANDEUR SERIES-2023 ALUM S.H. WDW. (N.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

no	date	description

date 12-15-23
 scale 1/2" = 1"
 drawing no. 23-63F
 sheet 5 of 9



Sealed: 2/29/2024
 FL #46578

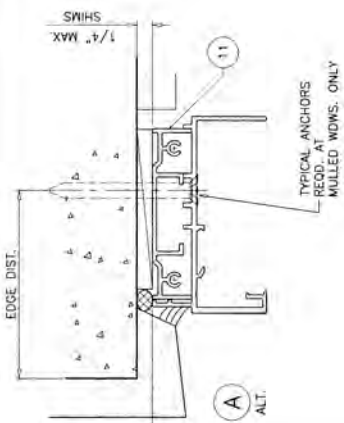
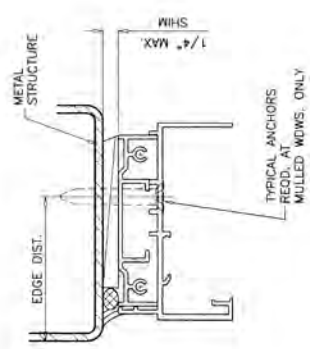
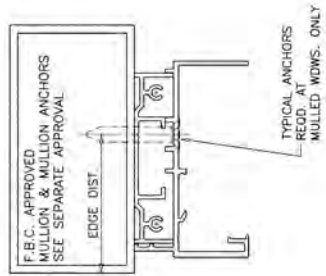


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 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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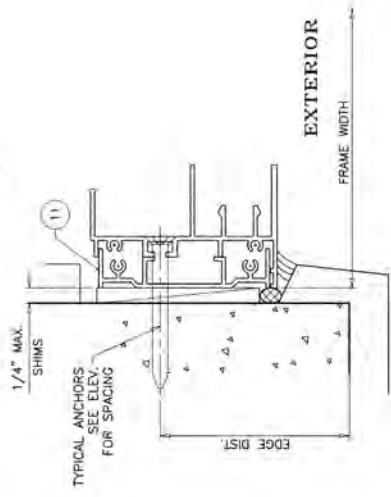
GRANDEUR SERIES-2023 ALUM S.H. WDW. (N.I.)
 Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:	no	date	by	description

chk. by: _____
 dr. by: TAELO
 scale: 1/2" = 1"
 date: 12-15-23
 drawing no.: 23-63F
 sheet 6 of 9



D
 ALT.

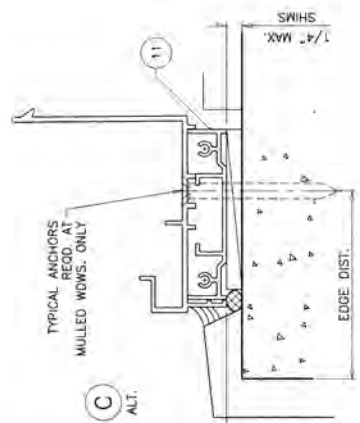


EXTERIOR

FRAME HEIGHT

EXTERIOR

FRAME WIDTH



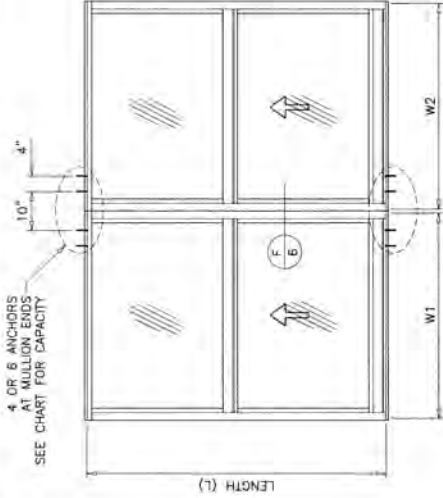
C
 ALT.

FLANGE FRAMES WITH EQUAL LEG ADAPTERS

SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 2/29/2024

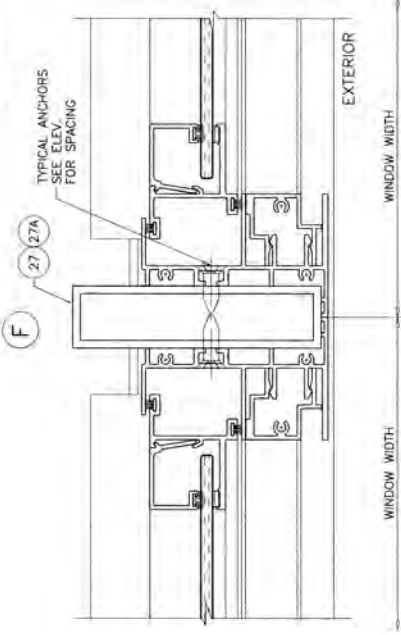
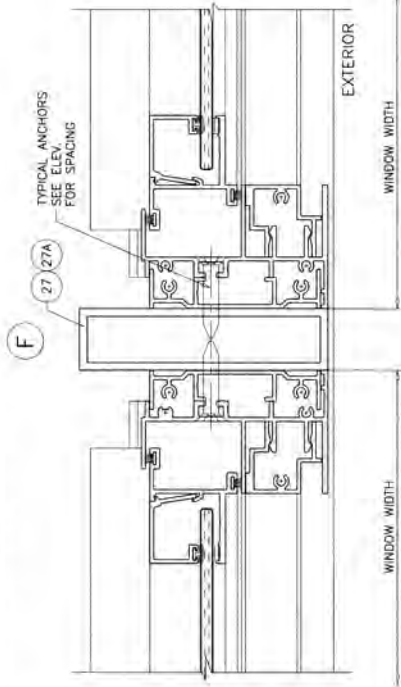
FL #46578



TYPICAL ELEVATIONS
 SIDE BY SIDE WINDOWS
 SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS
 $WIDTH (W) = \frac{W1 + W2}{2}$

FRAME DIMS. WIDTH (W)	MULLION LOAD CAPACITY - PSF					
	1 X 4 STD. TUBE		1 X 4 CUSTOM TUBE		1 X 4 CUSTOM TUBE	
LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	90.0	100.0	100.0	100.0	90.0	100.0
30"	90.0	100.0	100.0	100.0	90.0	100.0
36"	90.0	100.0	100.0	100.0	90.0	100.0
42"	90.0	100.0	100.0	100.0	90.0	100.0
48"	90.0	100.0	100.0	100.0	90.0	100.0
54"	90.0	100.0	100.0	100.0	90.0	100.0
60"	90.0	100.0	100.0	100.0	90.0	100.0
72"	90.0	100.0	100.0	100.0	90.0	100.0
76"	90.0	100.0	100.0	100.0	90.0	100.0

FRAME DIMS. WIDTH (W)	MULLION LOAD CAPACITY - PSF					
	1 X 4 STD. TUBE		1 X 4 CUSTOM TUBE		1 X 4 CUSTOM TUBE	
LENGTH (L)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	90.0	100.0	90.0	100.0	90.0	100.0
37"	90.0	100.0	90.0	100.0	90.0	100.0
53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
19-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	90.0	100.0	90.0	100.0	90.0	100.0
37"	90.0	100.0	90.0	100.0	90.0	100.0
53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
19-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	90.0	100.0	90.0	100.0	90.0	100.0
37"	90.0	100.0	90.0	100.0	90.0	100.0
53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
19-1/8"	90.0	100.0	90.0	100.0	90.0	100.0
26-1/2"	90.0	100.0	90.0	100.0	90.0	100.0
37"	90.0	100.0	90.0	100.0	90.0	100.0
53-1/8"	90.0	100.0	90.0	100.0	90.0	100.0



S.H. TO S.H.
 WINDOW WIDTH
 WINDOW WIDTH
 EXTERIOR
 EXTERIOR

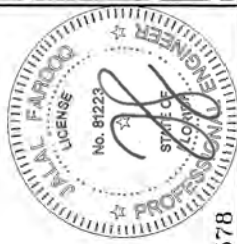
NOTES:
 1. USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION
 CAPACITY OF WINDOW MULLION.
 2. FOR SINGLE HUNG WINDOW CAPACITY SEE SHEETS 2 & 3.
 3. LOWER VALUES FROM STEPS 1 OR 2 WILL APPLY TO
 ENTIRE SYSTEM.

Sealed: 2/29/2024
 FL #46578

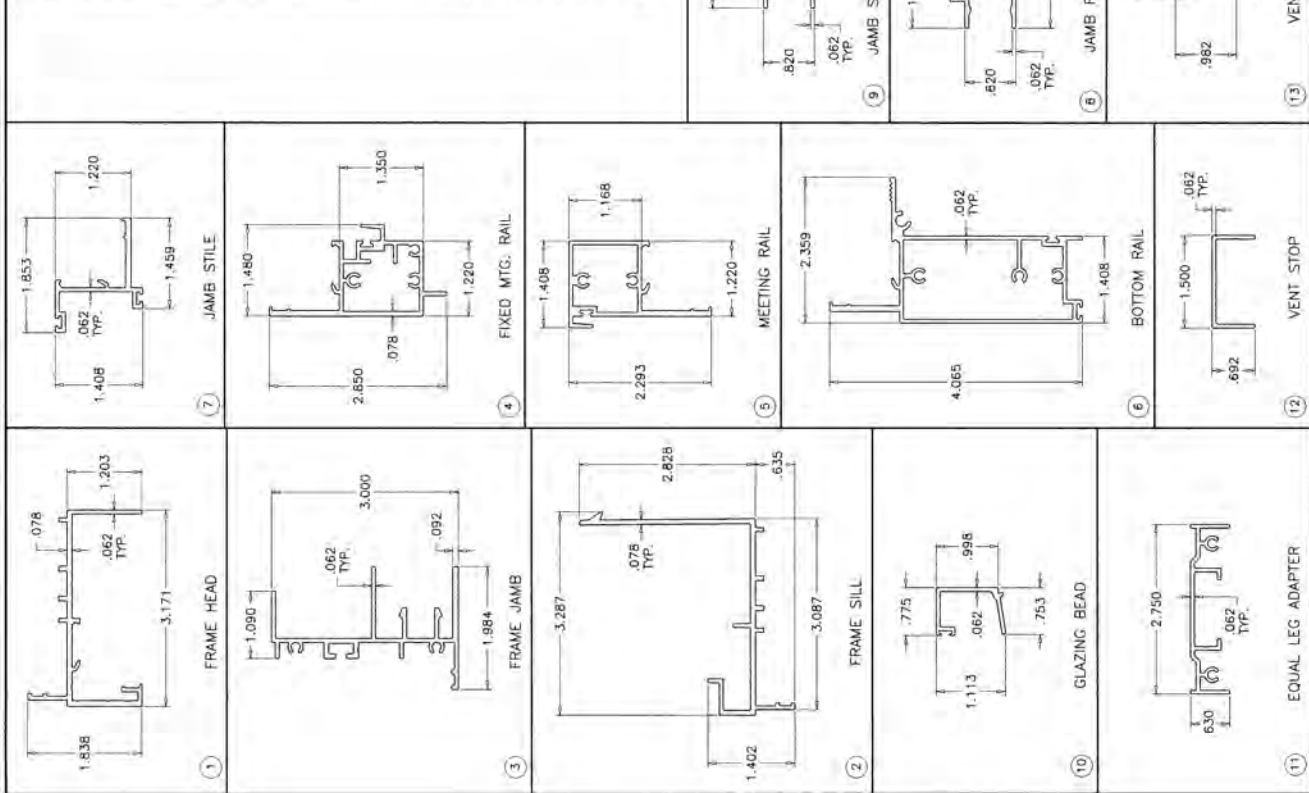
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	59686	1	FRAME HEAD	6063-T6	
2	59689	1	FRAME SILL	6063-T6	
3	59690	2	FRAME JAMB	6063-T6	
4	59687	1	FIXED MTG. RAIL	6063-T6	
5	59688	1	VENT TOP RAIL	6063-T6	
6	59695	1	VENT BOTTOM RAIL	6063-T6	
7	59693	2	JAMB STILE	6063-T6	
8	59691	2	JAMB FIXED ADAPTER	6063-T6	
9	59692	2	JAMB SCREEN ADAPTER	6063-T6	
10	12065	AS REOD.	GLAZING BEAD	6063-T6	
11	59697	AS REOD.	EQUAL LEG ADAPTER	6063-T6	
12	59698	2	VENT STOP	6063-T6	
13	LL-900	2/ VENT	VENT LATCH WITH S/S SPRING, AT 8" FROM EACH END	NYLON	
14	30-HD-NBA	2/ VENT	SPIRAL BALANCE	STEEL/PLASTIC	
15	N-60-62	2/ VENT	BALANCE HOOK	STEEL	
16	-	2/ VENT	BALANCE GUIDE	VINYL	
17	WLDNH-008	1/ BALANCE	WELD NUT	STEEL	
18	#B X 1"	AS REOD.	FRAME/VENT ASSEMBLY SCREWS	CRS	PH SMS
19	MP F/N 83010	AS REOD.	GLAZING BEAD BULB	VINYL	MELTPONT
20	Z 754	AS REOD.	1/4" X 1/4" DOUBLE FACE GLAZING TAPE	PE FOAM	ULTRAC
22	W33191MK000B	AS REOD.	FIN SEAL W/STRIPPING	POLYPROPYLENE	ULTRAFAB
23	MP F/N 83002	AS REOD.	BULB SEAL W/STRIPPING	SANTOPRENE	MELTPONT, DUROMETER 65±5
24	X 109HT-100	AS REOD.	D-SHAPE FOAM RUBBER SEAL	EPDM	
25	ATP-054	2/ SILL	WEEP HOLE COVER	PLASTIC	
26	-	AS REOD.	5/16" BOX SCREEN	-	OPTIONAL
27	-	AS REOD.	1 X 4 X 1/8" STD. TUBE MULLION	6063-T6	
27A	-	AS REOD.	1 X 4 CUSTOM TUBE MULLION	6063-T6	

SEALANT:
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH
 SCHNEE MOREHEAD SM-5504 JOINT SEALER.

Sealed: 2/29/2024



FL #46578

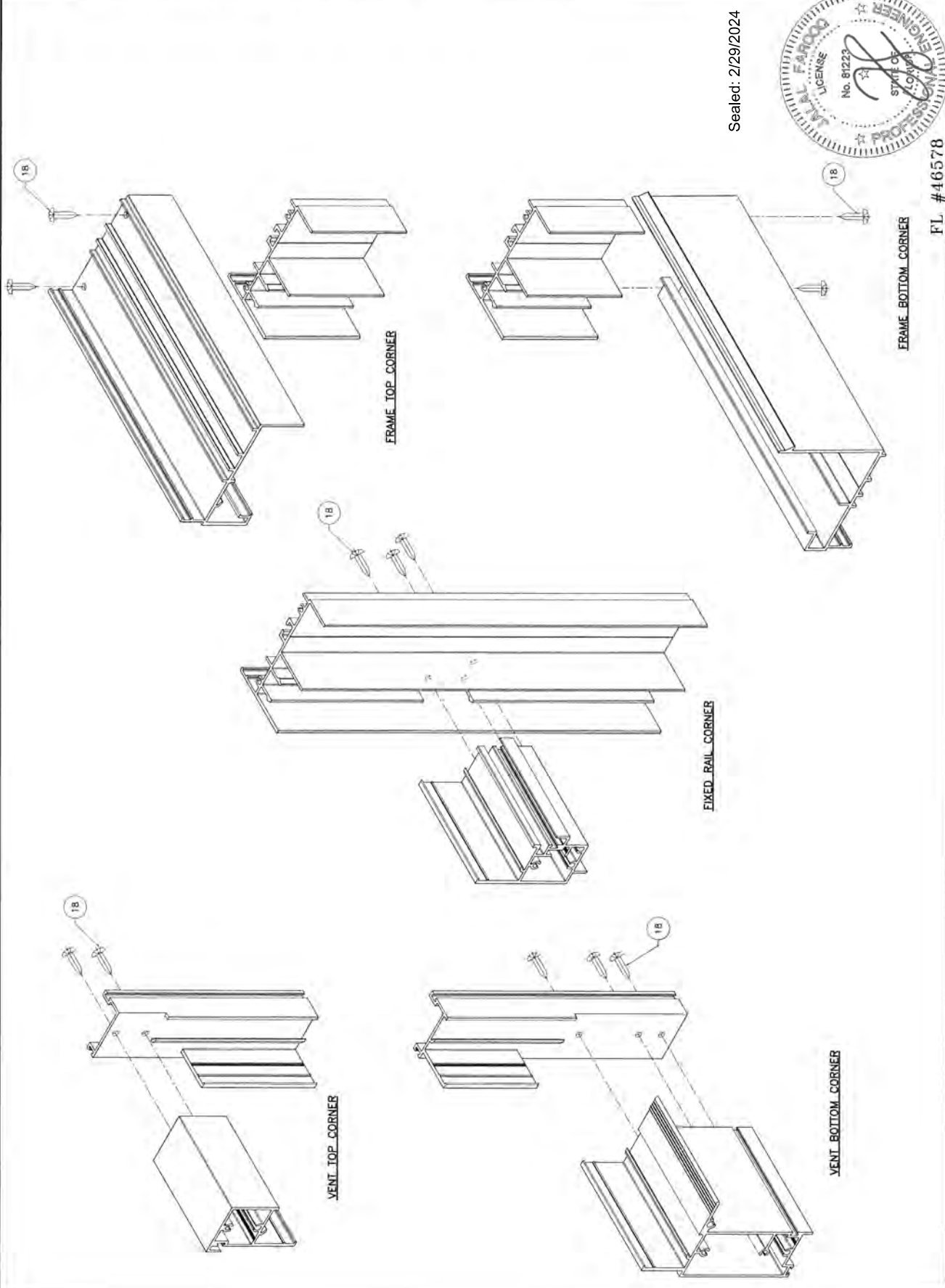


COMP-ANTL\23-63F-SWM
AL-FAROQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 9538)
 TEL. (305) 264-8100 FAX. (305) 262-6978

GRANDEUR SERIES-2023 ALUM. S.H. DW. (N.I.)
Sunshine Windows Manufacturing, Inc.
 1785 West 33rd Place
 Hialeah, FL. 33012
 Tel. (305) 364-9952 Fax. (305) 828-5118

no	date	by	description

revisions:
 date: 12-15-23
 scale: 1/2" = 1"
 dr. by: TARIQ
 ch. by:
 drawing no. **23-63F**
 sheet **9** of **9**



Sealed: 2/29/2024



FRAME_BOTTOM_CORNER
 FL #46578