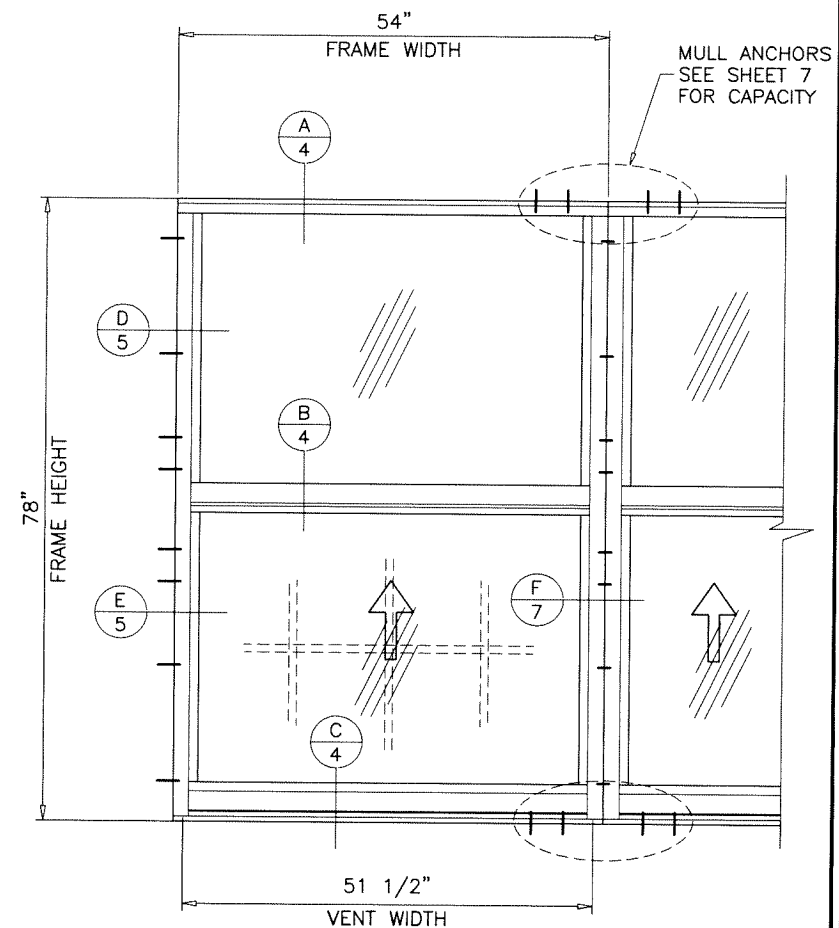
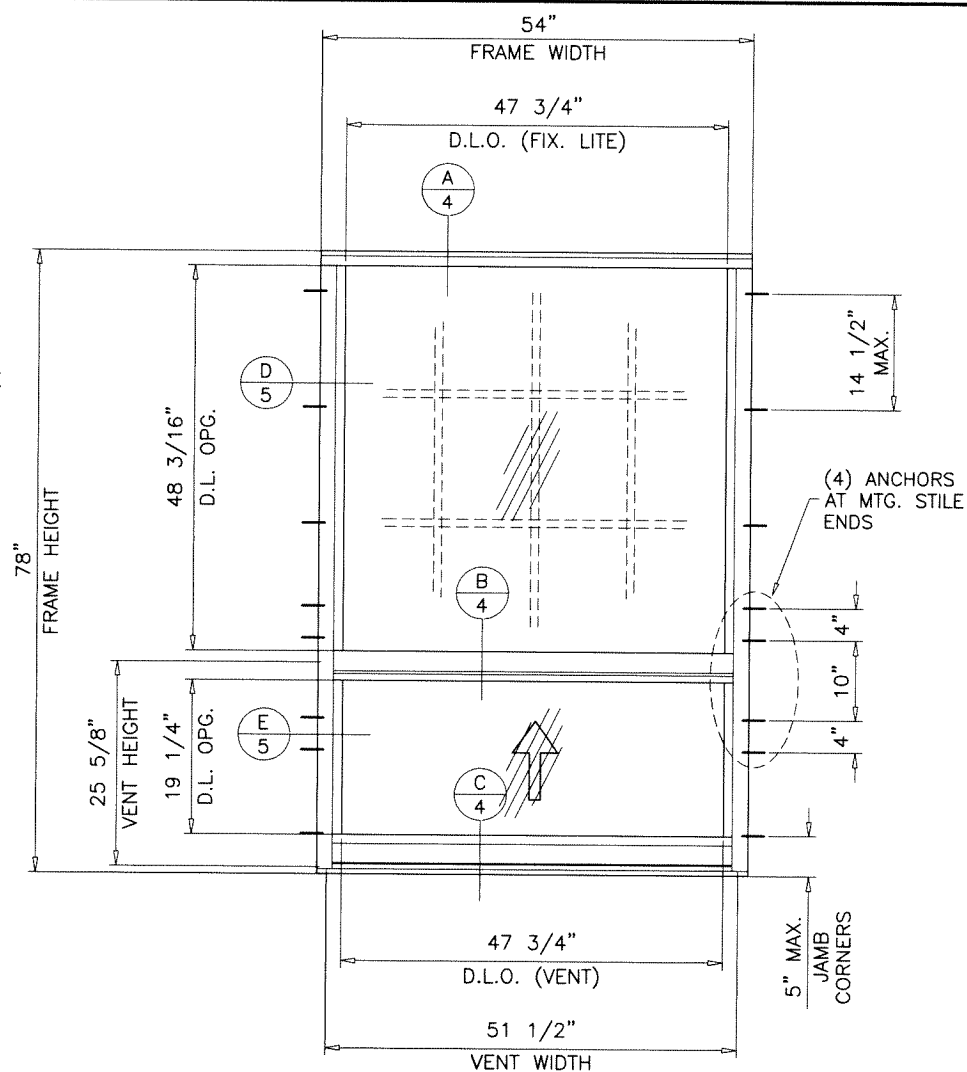
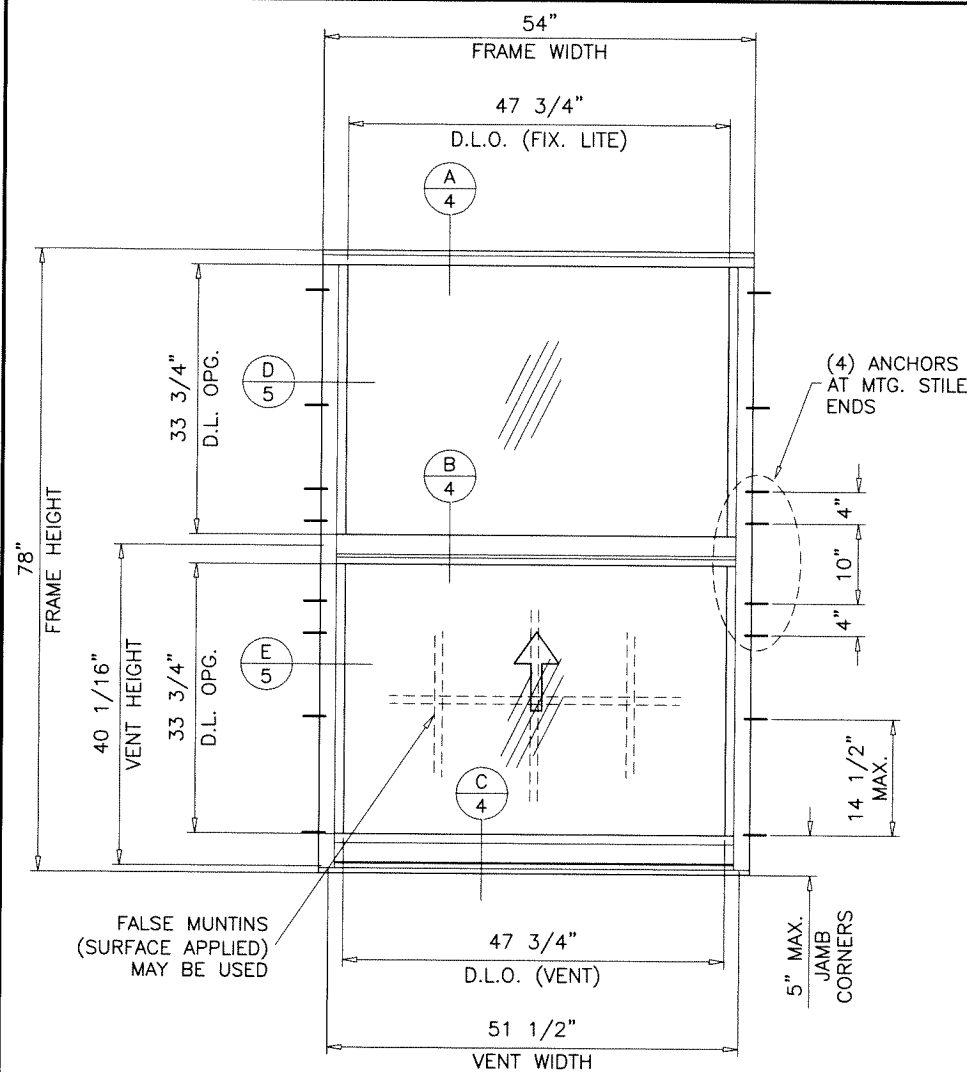




GRANDEUR SERIES-2023
ALUMINUM SINGLE HUNG WINDOW

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

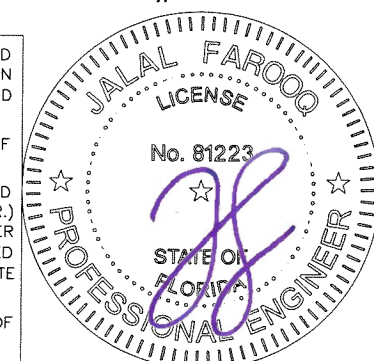
DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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

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 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.

revisions:

no	date	by description

date: 12-15-23

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

dr. by: TARIQ

chk. by:

drawing no.

23-61F

sheet 1 of 9

GRANDEUR SERIES-2023 ALUM S.H. WDW. (L.M.I.)

Sunshine Windows Manufacturing, Inc.

1785 West 33rd Place
Hialeah, FL. 33012

Tel. (305) 364-9952 Fax. (305) 828-5118

AL-FAROOQ CORPORATION

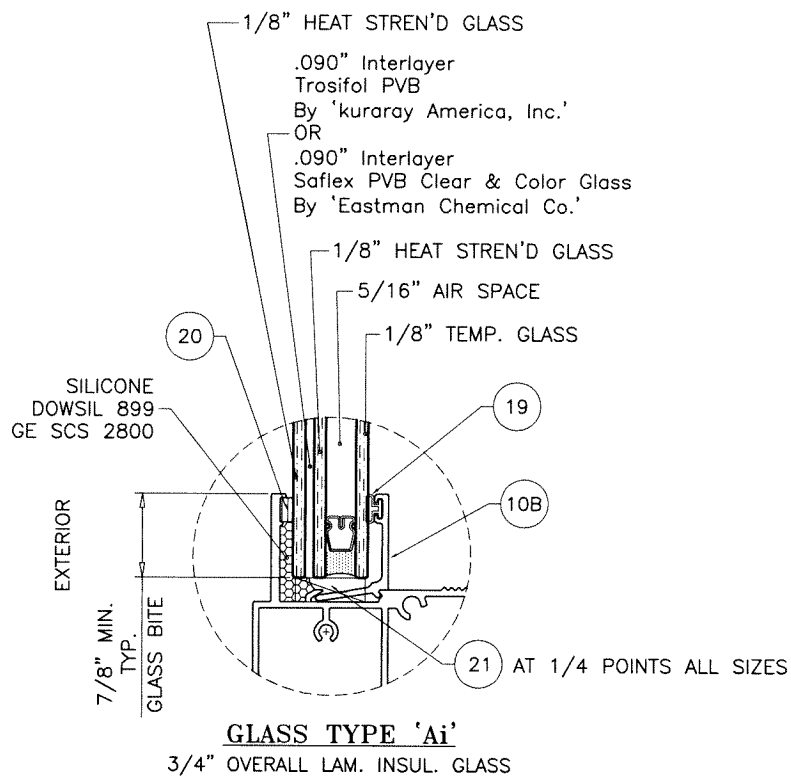
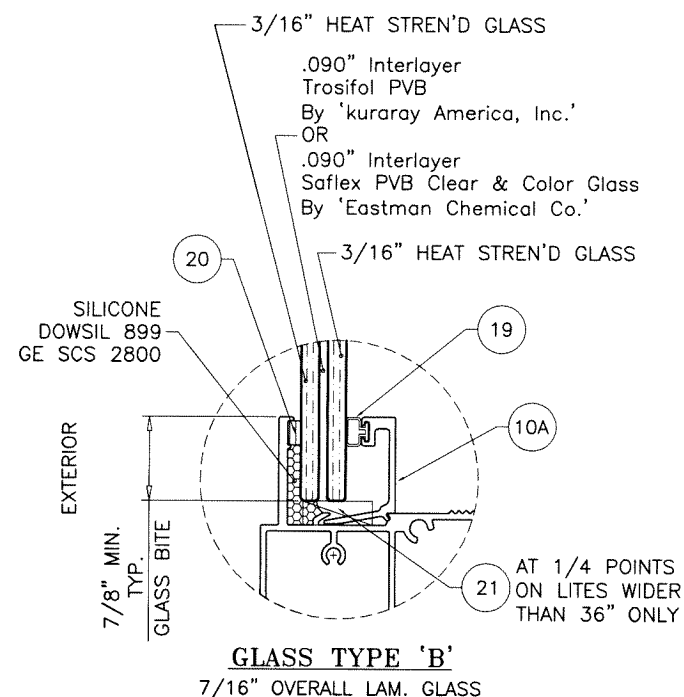
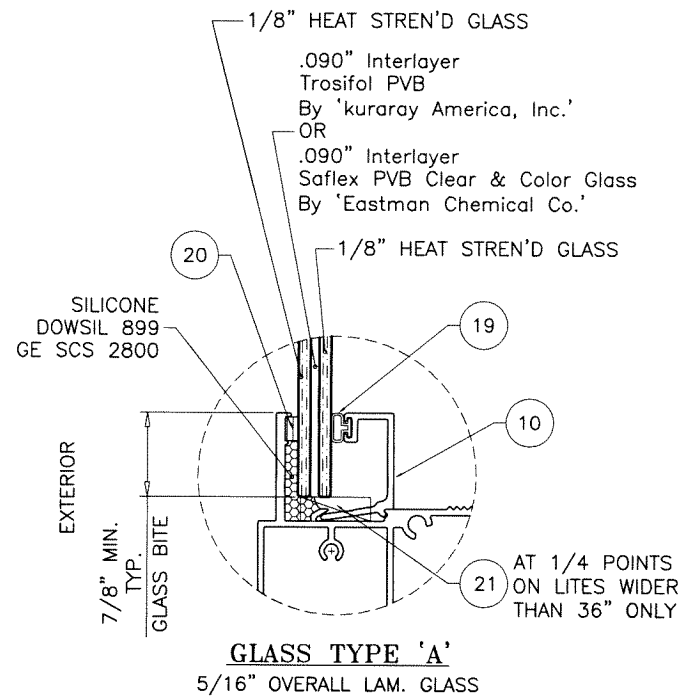
ENGINEERS & PRODUCT DEVELOPMENT

9360 SUNSET DRIVE, SUITE 220

MIAMI, FLORIDA 33173

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

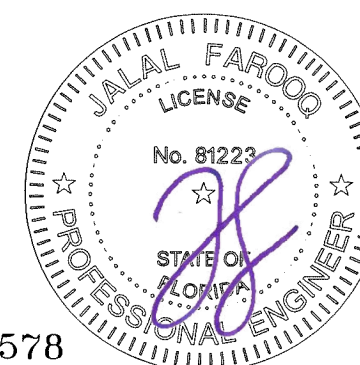
COMP-ANL\23-61F-SWM



5/16" 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

Sealed: 2/29/2024

FL #46578



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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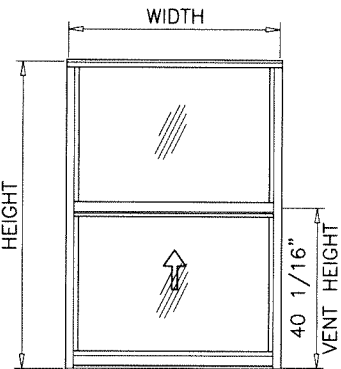
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Hialeah, FL. 33012
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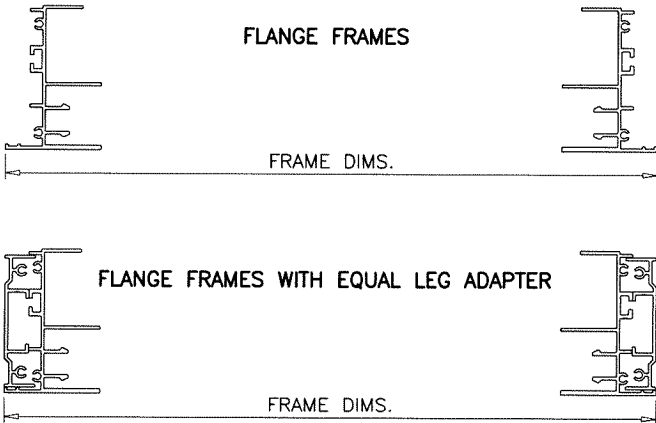
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drawing no.
23-61F
sheet 2 of 9

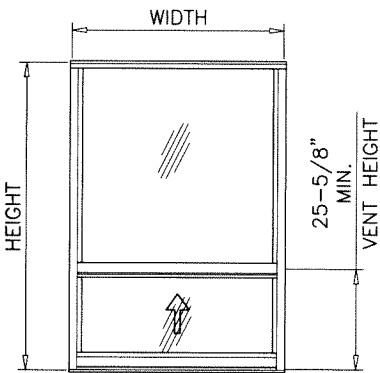
EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		GLASS TYPES 'A', 'Ai' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	38-3/8"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	50-5/8"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	56"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	63"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	74-1/4"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0



EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		GLASS TYPES 'A', 'Ai' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
24"	48"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
24"	60"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
24"	72"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
24"	78"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
24"	84"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
24"	96"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0



UNEQUAL LITES (ORIEL TYPE) WINDOWS DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		GLASS TYPES 'A', 'Ai' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	56"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"		90.0	90.0
26-1/2"	63"	90.0	90.0
37"		90.0	90.0
53-1/8"		90.0	90.0
19-1/8"	74-1/4"	90.0	90.0
26-1/2"		90.0	90.0
37"		90.0	90.0



UNEQUAL LITES (ORIEL TYPE) WINDOWS DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		GLASS TYPES 'A', 'Ai' & 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
24"	60"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
42"		90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
24"	72"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
24"	78"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
24"	84"	90.0	90.0
30"		90.0	90.0
32"		90.0	90.0
36"		90.0	90.0
24"	96"	90.0	90.0
30"		90.0	90.0

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

Sealed: 2/29/2024

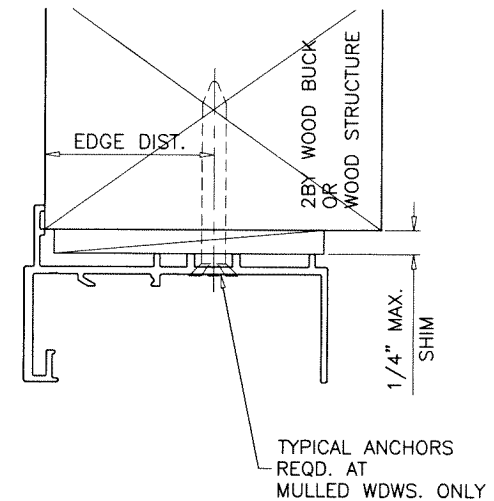
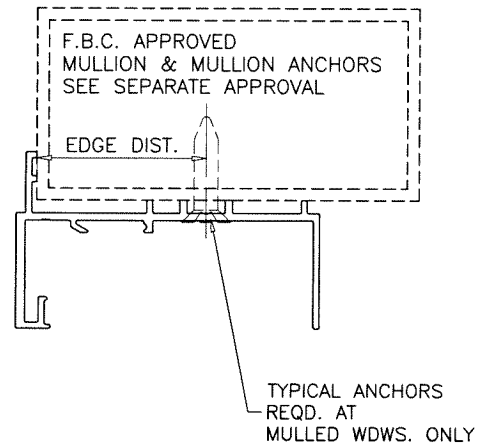
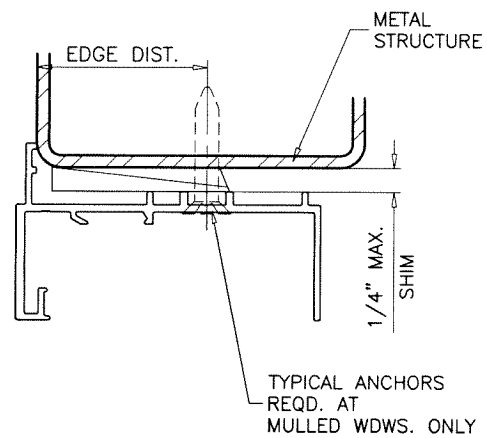
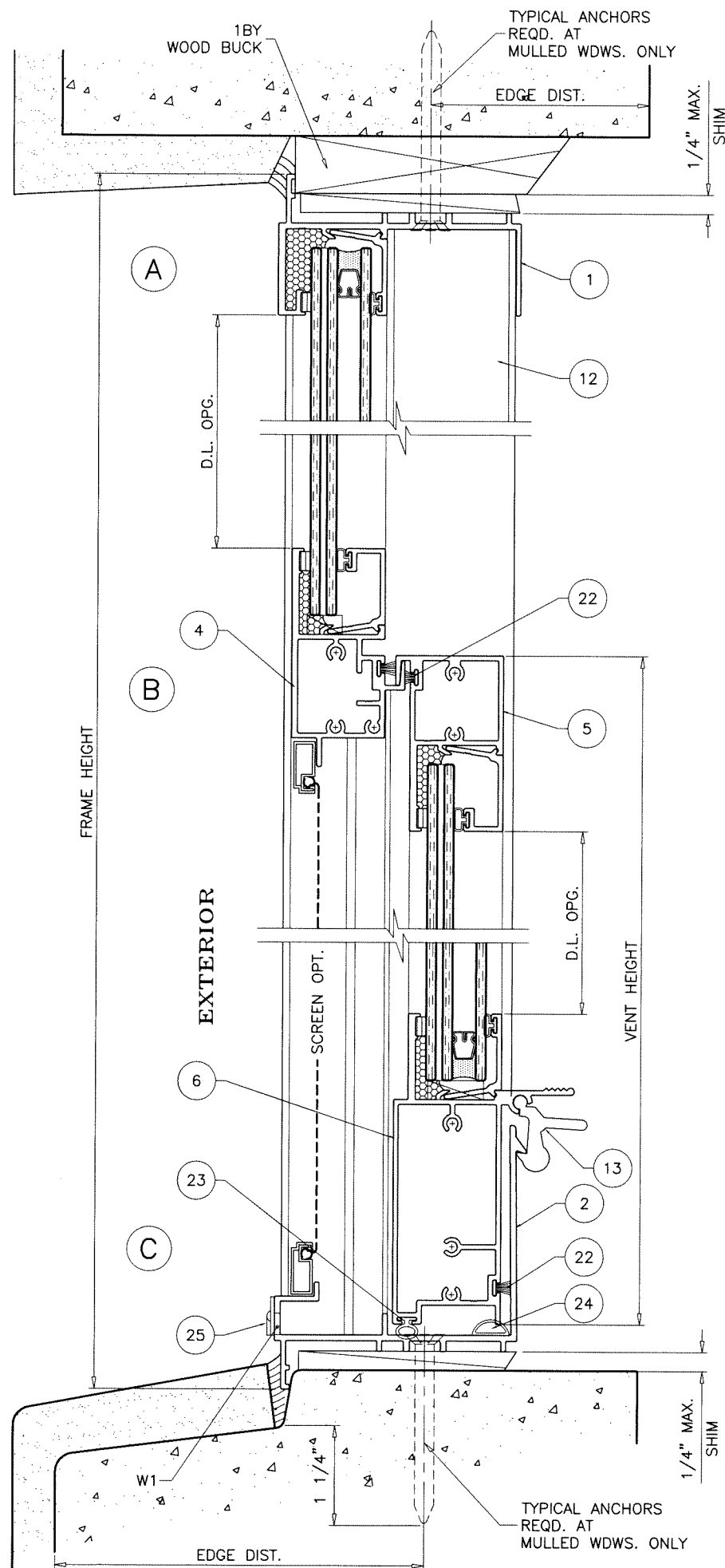
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af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL\23-61F-SWM

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

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drawing no.
23-61F
sheet 3 of 9



WOOD BUCKS AND METAL STRUCTURE NOT BY 'SUNSHINE WDWS.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

WEEPHOLES:

W1 = 1/4" X 1-1/2" LONG WEEP NOTCH AT 6" FROM EACH END WITH PLASTIC BAFFLE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY BUCKS INTO CONC. OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

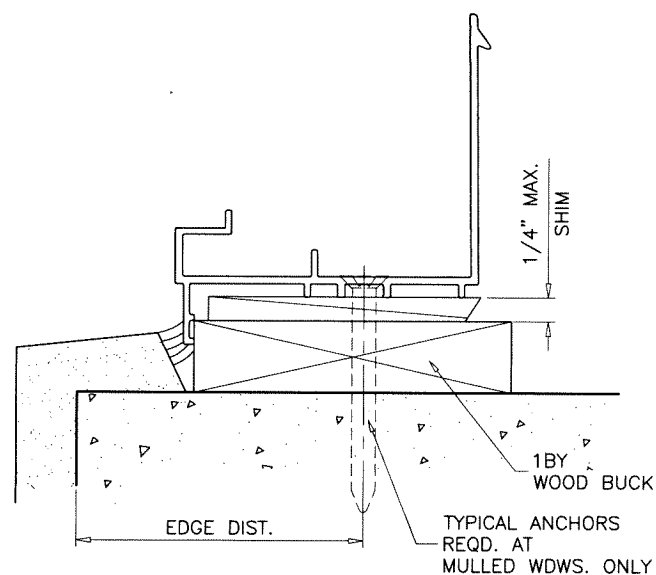
DIRECTLY INTO CONCRETE OR BLOCKS 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS) 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

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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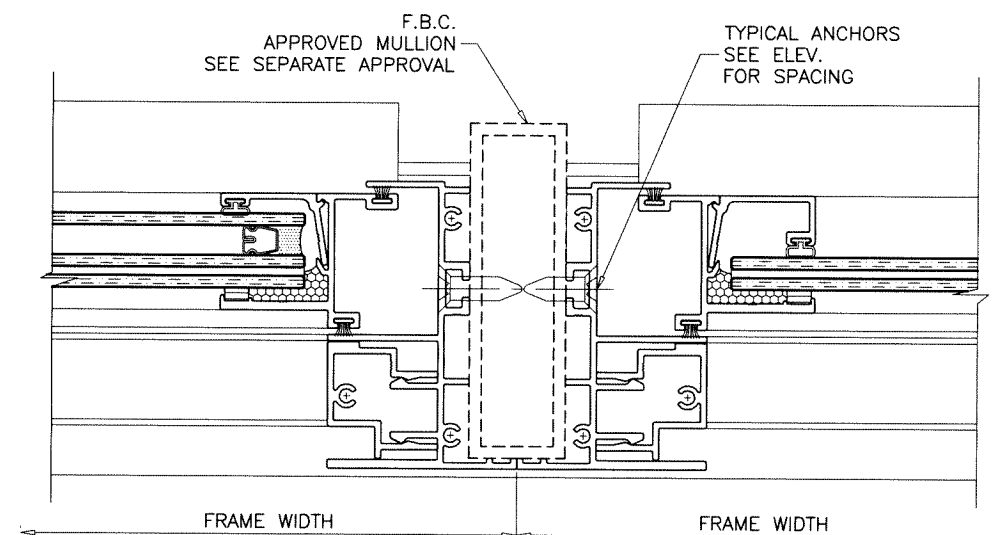
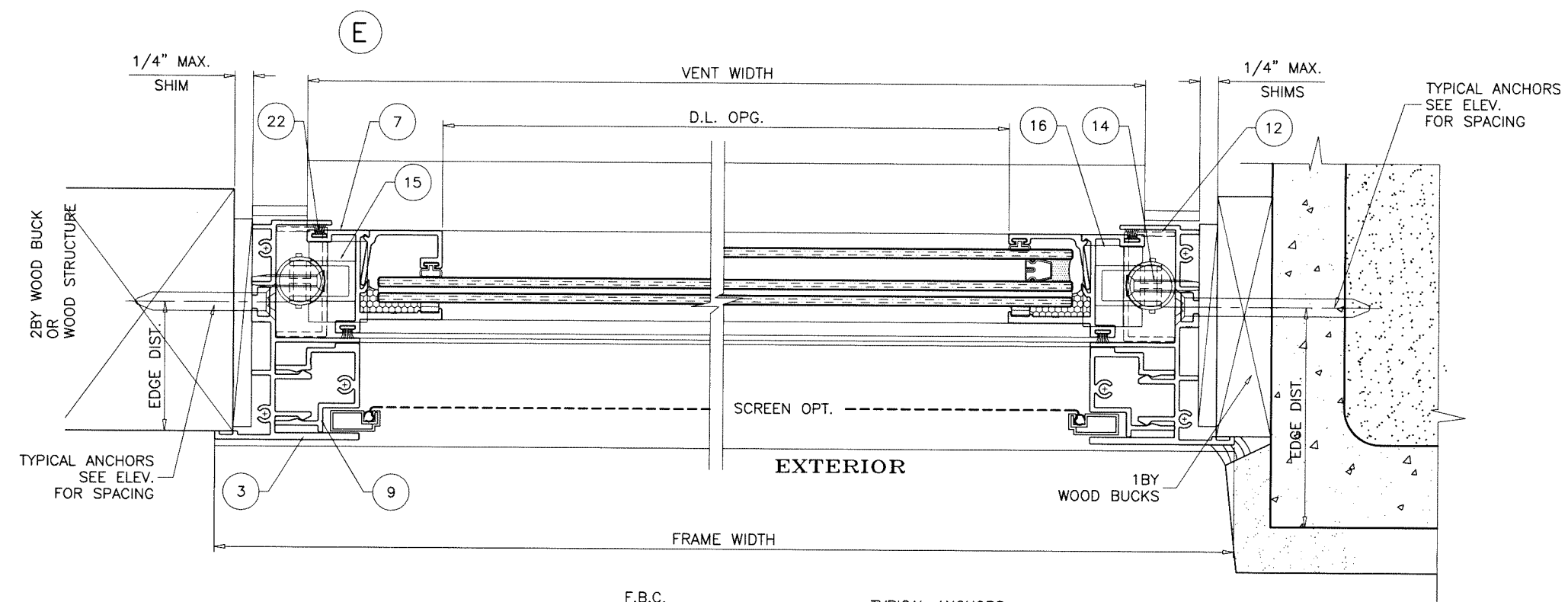
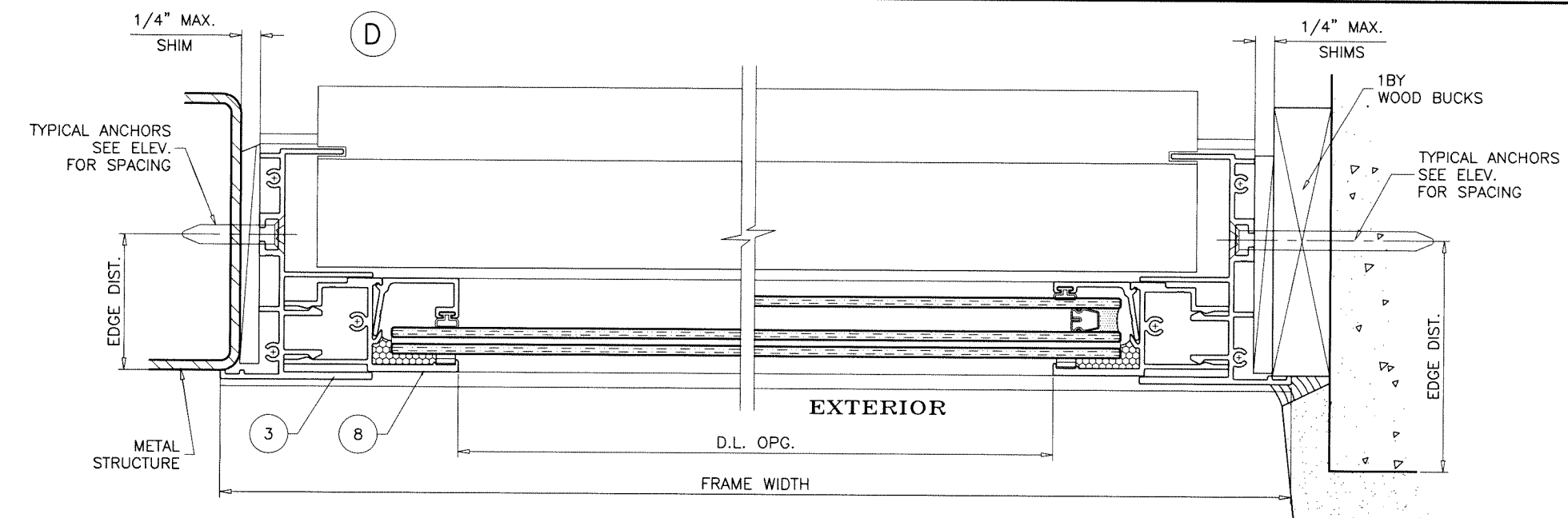
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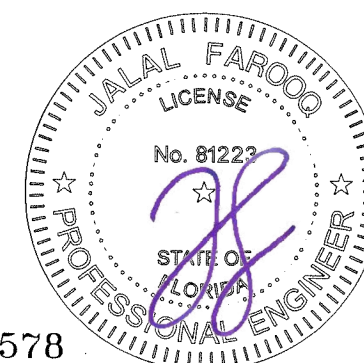
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sheet	4 of 9			



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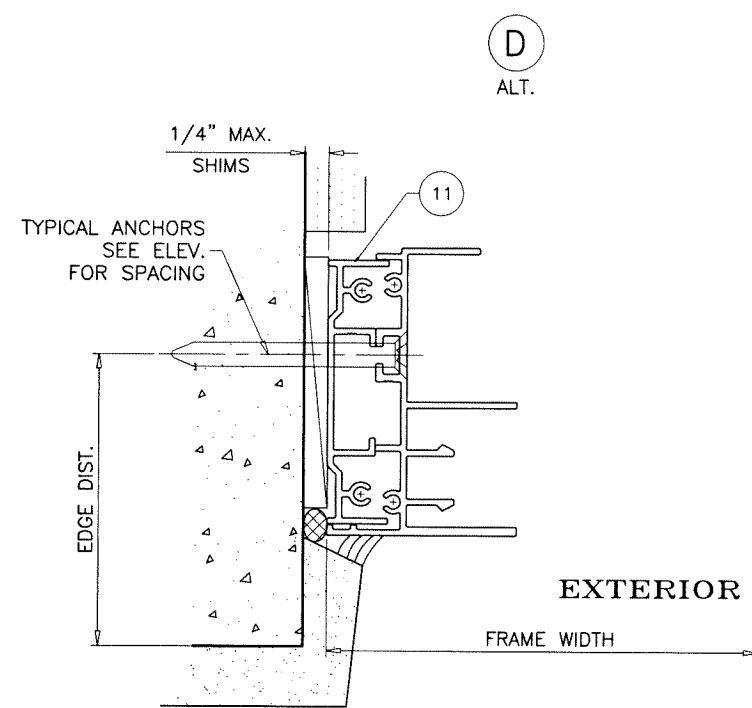
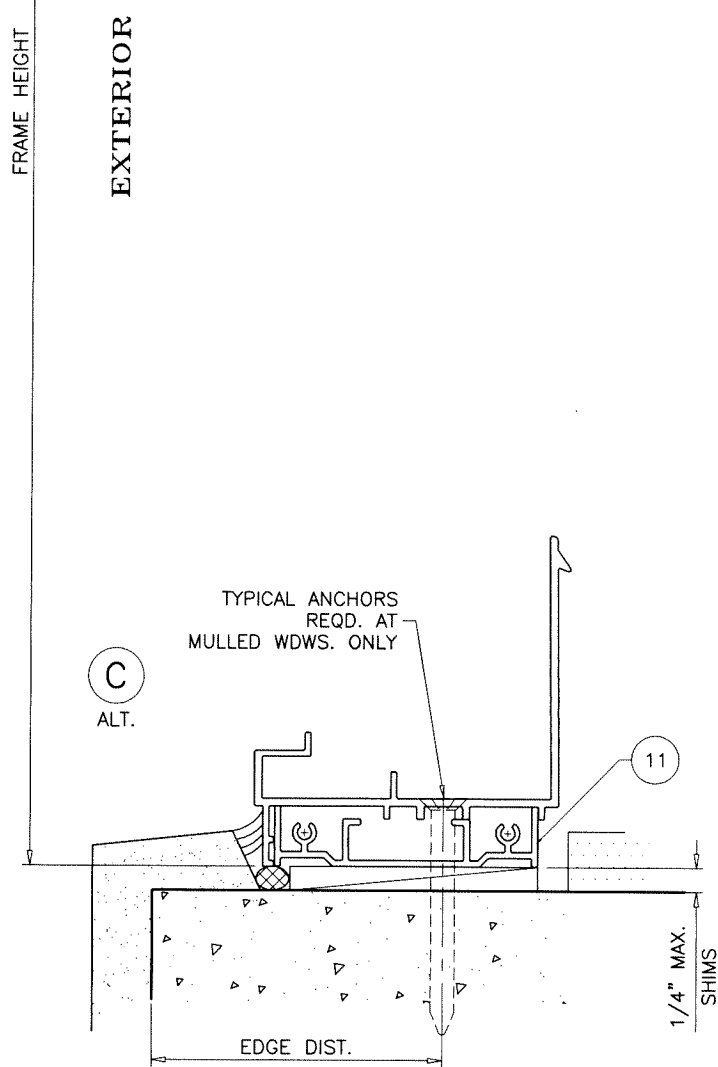
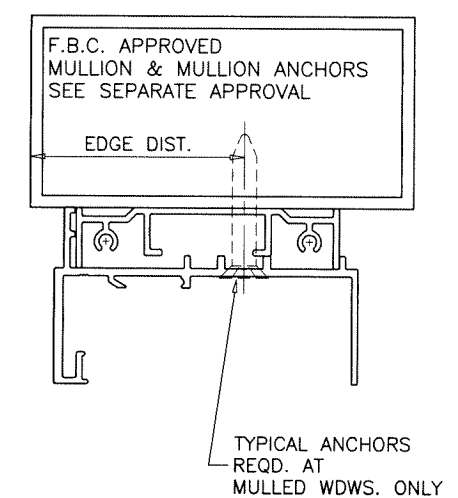
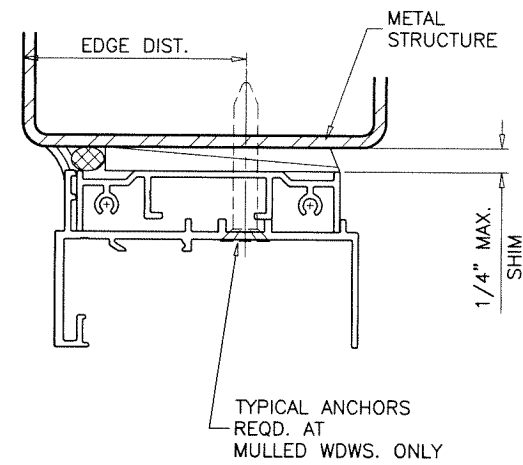
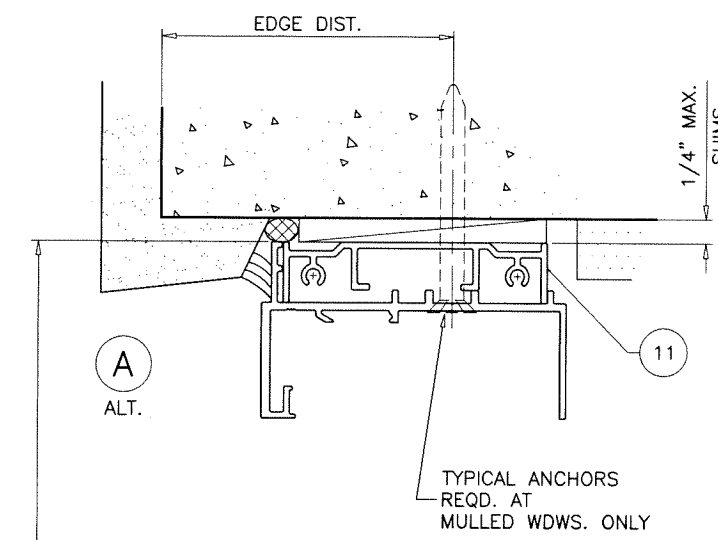
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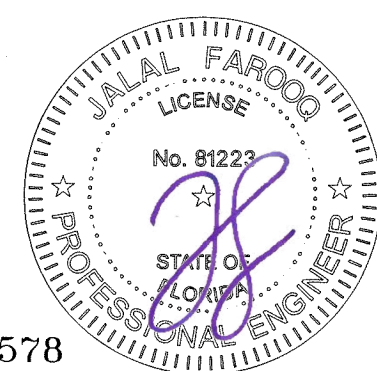
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chk. by:			
drawing no. 23-61F			
sheet 5 of 9			



FLANGE FRAMES WITH EQUAL LEG ADAPTERS
SEE SHEETS 4 & 5 FOR WINDOW DETAILS

Sealed: 2/29/2024

FL #46578



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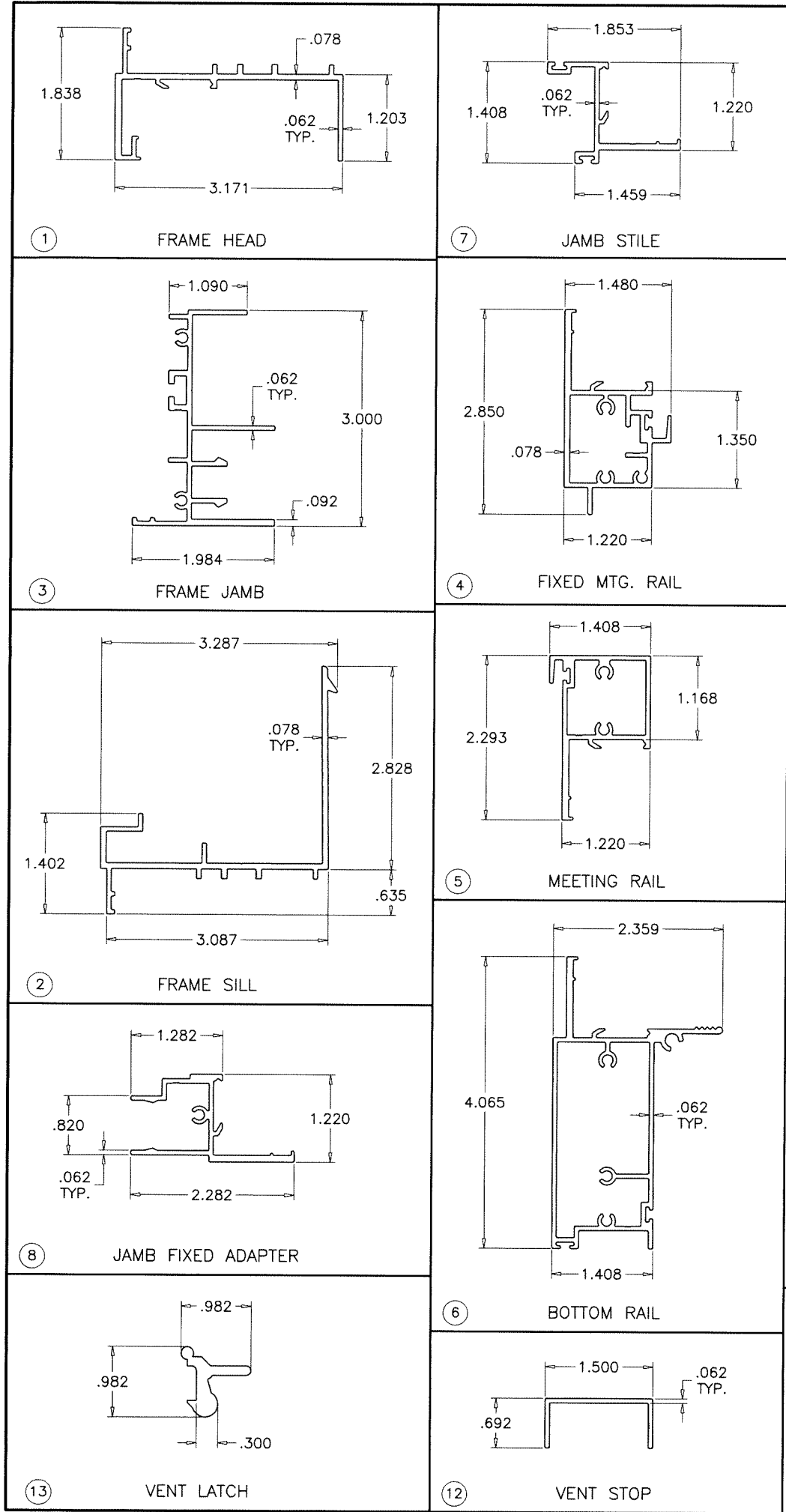
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23-61F

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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	59696	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	59694	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
10A	59672	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
10B	59695	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063-T6	-
11	59697	AS REQD.	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	#8 X 1"	AS REQD.	FRAME/VENT ASSEMBLY SCREWS	CRS	PH SMS
19	MPI P/N 83010	AS REQD.	GLAZING BEAD BULB	VINYL	MELTPOINT
20	Z 754	AS REQD.	1/4" X 1/4" DOUBLE FACE GLAZING TAPE	PE FOAM	ZIALOC
21	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
22	W33191NK000B	AS REQD.	FIN SEAL W'STRIPPING	POLYPROPYLENE	ULTRAFAB
23	MPI P/N 83002	AS REQD.	BULB SEAL W'STRIPPING	SANTOPRENE	MELTPOINT, DUROMETER 65±5
24	X 109HT-100	AS REQD.	D-SHAPE FOAM RUBBER SEAL	EPDM	-
25	ATP-054	2/ SILL	WEEP HOLE COVER	PLASTIC	-
26	-	1/ VENT	5/16" BOX SCREEN	-	OPTIONAL
27	-	AS REQD.	1 X 4 X 1/8" ALUM TUBE MULLION	6063-T6	-

SEALANT:

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

Sealed: 2/29/2024

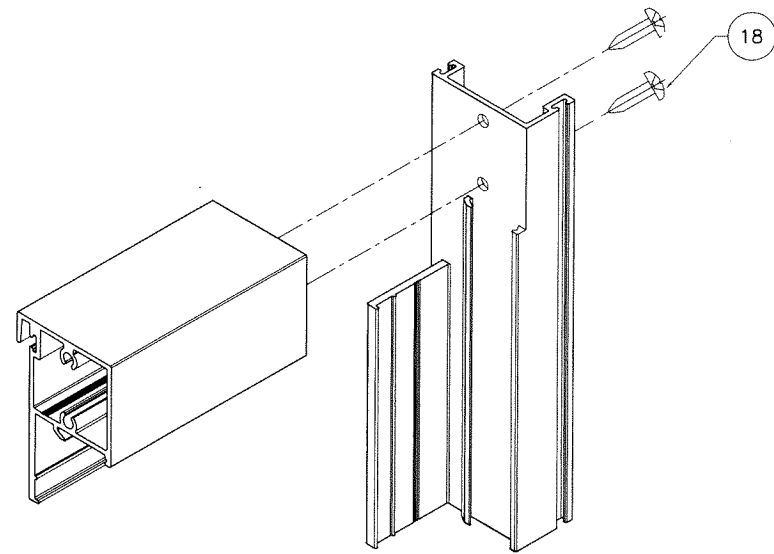


FL #46578

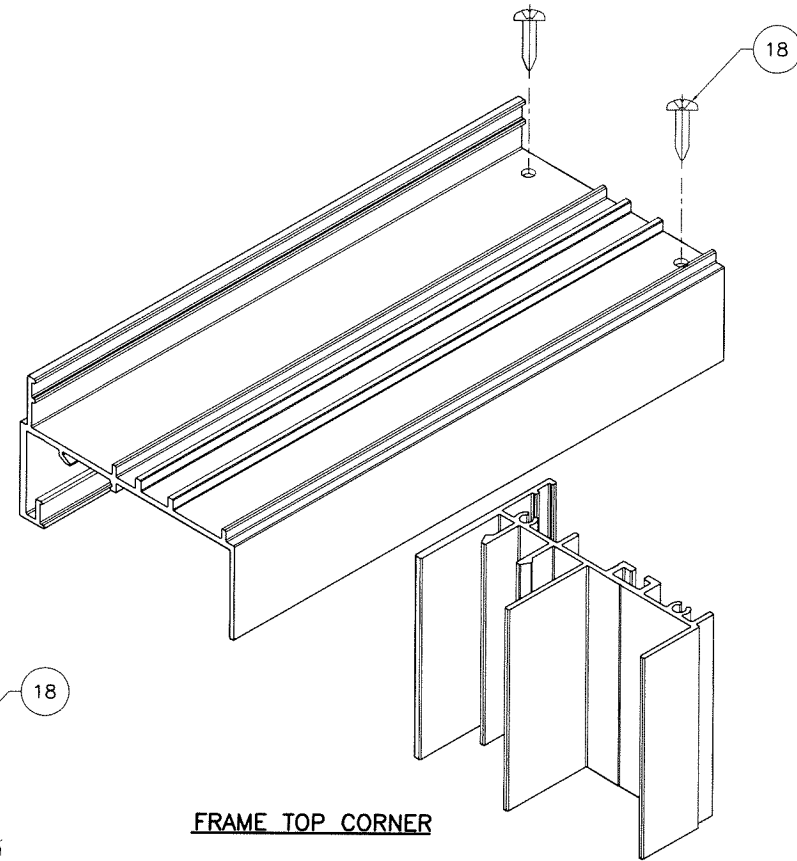
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\23-61F-SWM

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

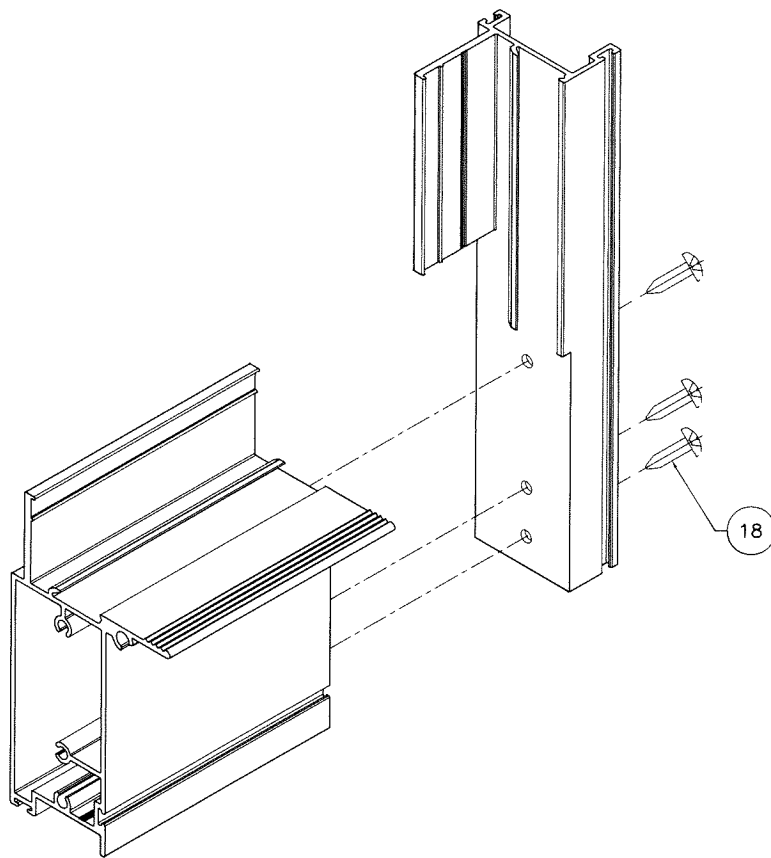
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dr. by:	TARIQ	chk. by:		
drawing no.	23-61F	sheet	8 of 9	



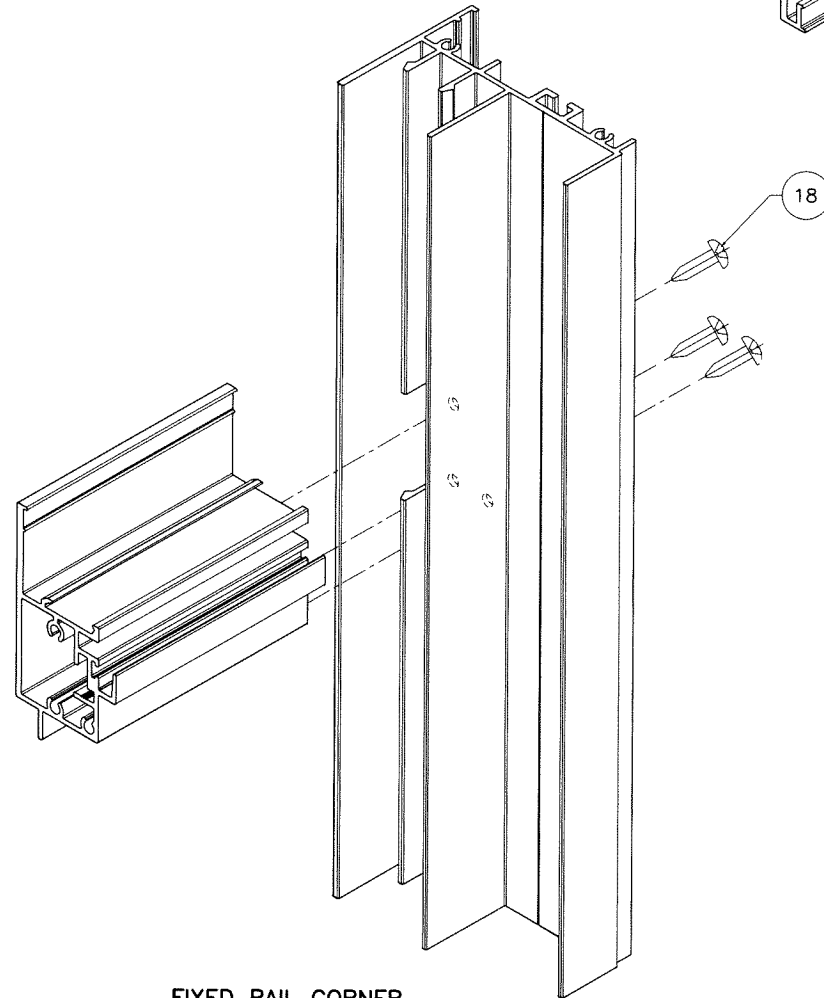
VENT TOP CORNER



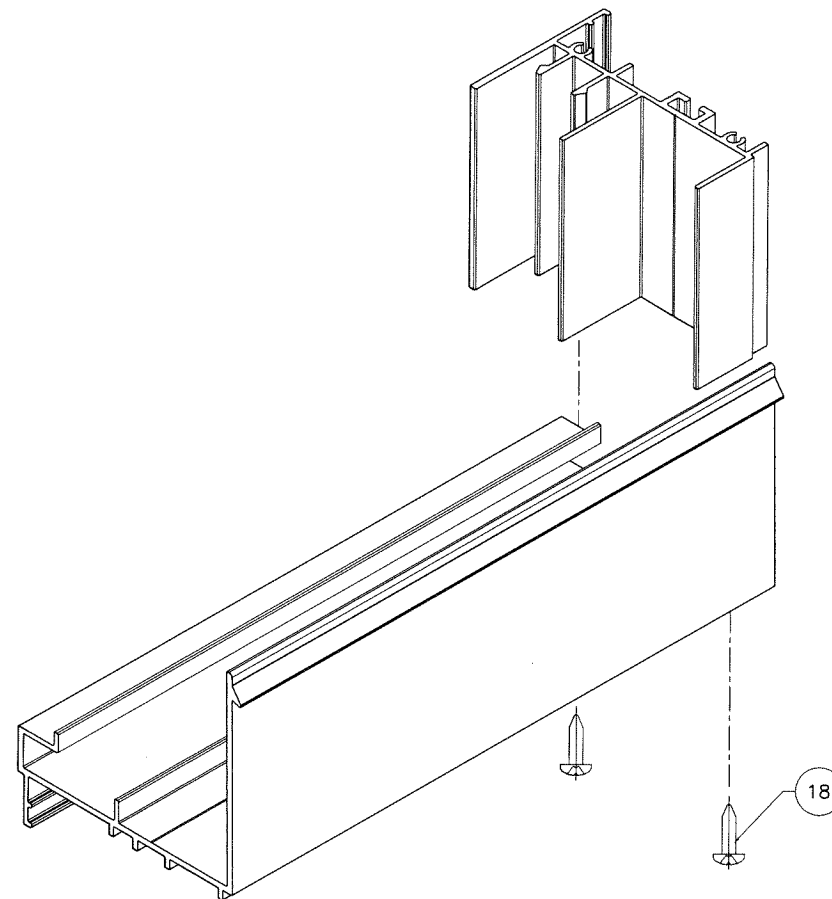
FRAME TOP CORNER



VENT BOTTOM CORNER



FIXED RAIL CORNER



FRAME BOTTOM CORNER

Sealed: 2/29/2024



FL #46578

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revisions:		by description	
no	date		

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dr. by: TARIQ	chk. by:

drawing no.	23-61F
sheet	9 of 9