

SERIES-2011
ALUMINUM FIXED WINDOW

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.

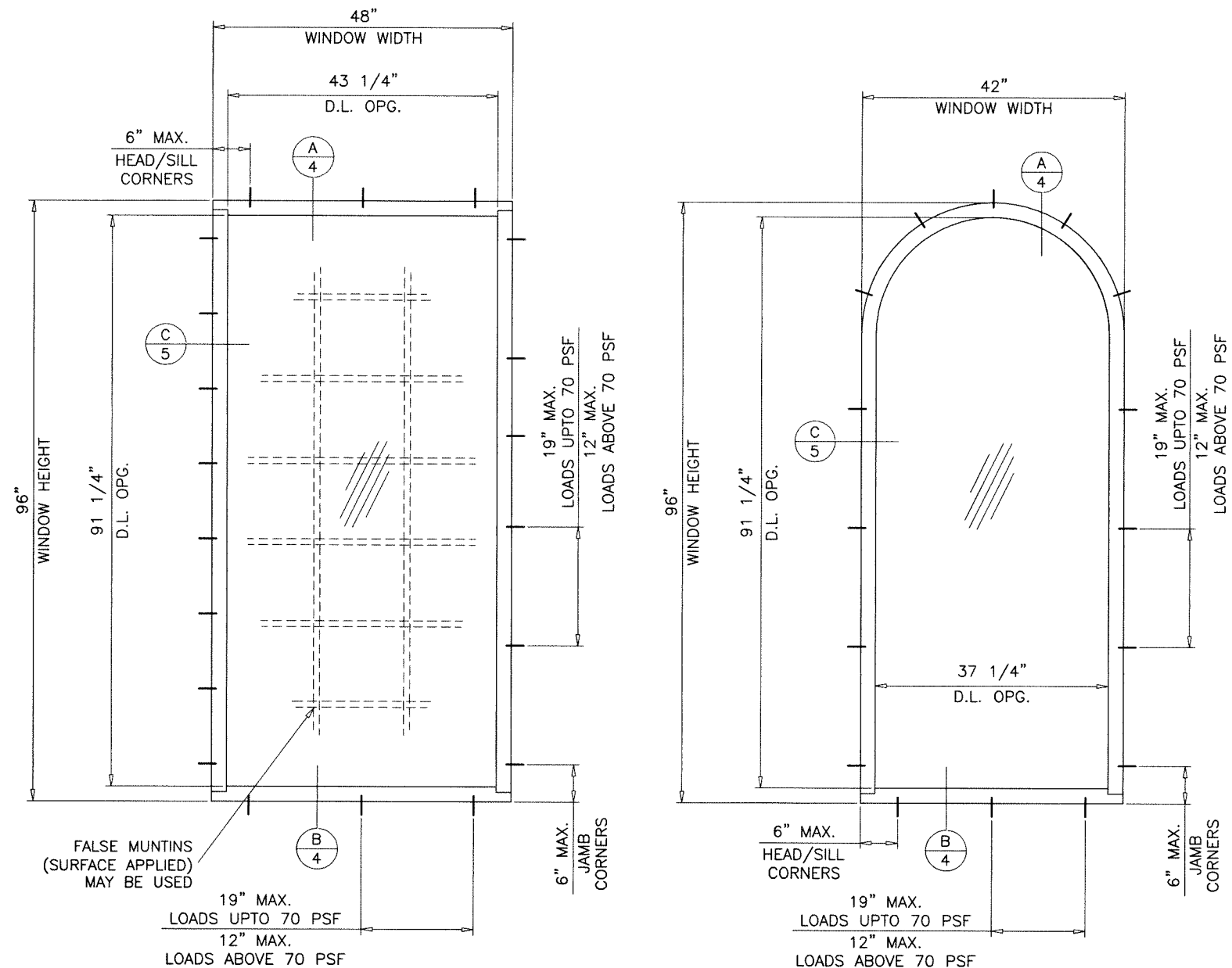
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

ALL SHIMS TO BE LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

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.

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.

Sealed: 9/22/2026

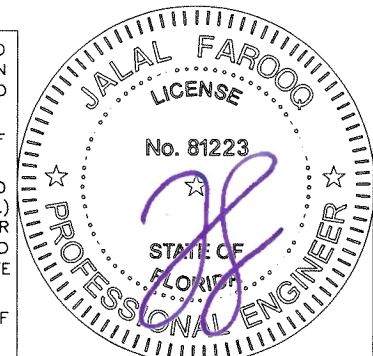
FL #31179

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.



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-ANI\19-1

SERIES-2011 ALUMINUM FIXED WDW. (L.M.I.)

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012

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

drawing
no.

19-120F

sheet
1
of
6

date:
10-11-19

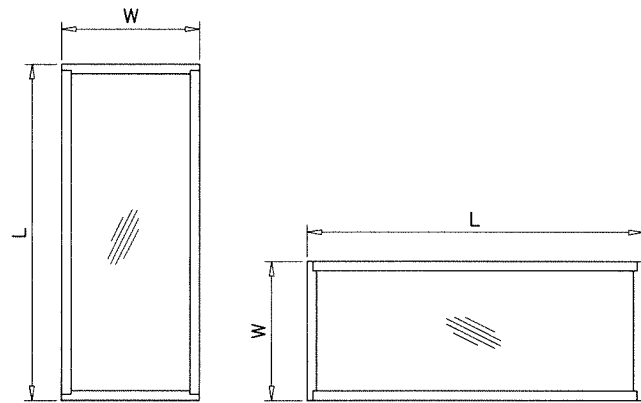
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dr. by:
TARIQ

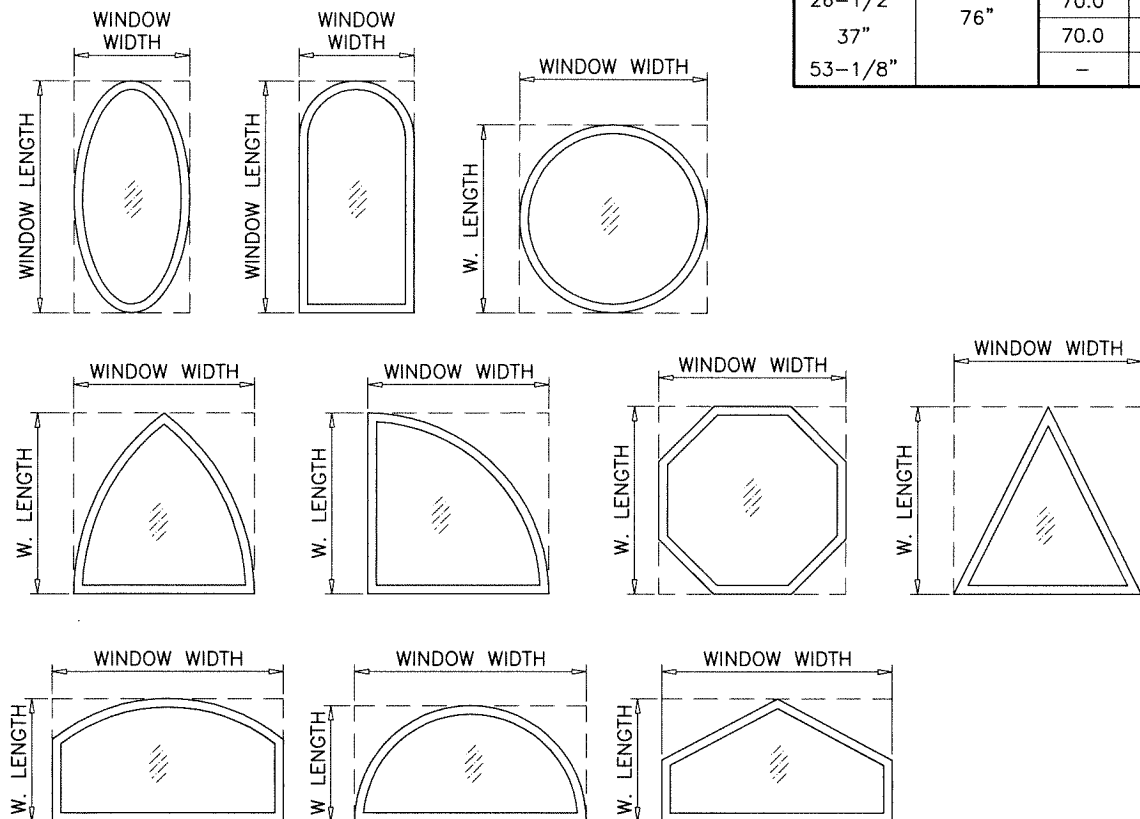
chk. by:

revisions:

no	date	by	description
A	08.27.20		UPDATED TO 2020 FBC
B	07.21.23		UPDATED TO 2023 FBC
C	09.16.26		UPDATED TO 2026 FBC



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



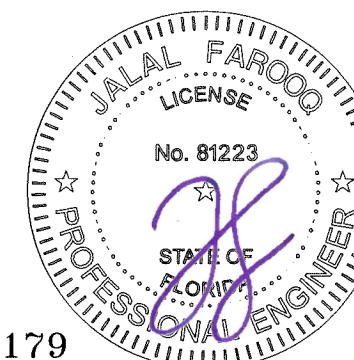
ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

DESIGN LOAD CAPACITY - PSF									
FRAME DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPES 'C' & 'D'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
37"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
53-1/8"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
19-1/8"	38-3/8"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
37"		70.0	70.0	90.0	95.0	110.0	110.0	55.1	55.1
53-1/8"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
19-1/8"	50-5/8"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
37"		70.0	70.0	90.0	95.0	110.0	110.0	55.1	55.1
53-1/8"		58.1	58.1	85.3	90.1	104.3	104.3	-	-
19-1/8"	56"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
37"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
53-1/8"		55.3	55.3	81.3	85.8	99.4	99.4	-	-
19-1/8"	63"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
37"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
53-1/8"		55.3	55.3	81.3	85.8	99.4	99.4	-	-
19-1/8"	72"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
37"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
53-1/8"		55.3	55.3	81.3	85.8	99.4	99.4	-	-
19-1/8"	76"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
26-1/2"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
37"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
53-1/8"		-	-	81.3	85.8	99.4	99.4	-	-

DESIGN LOAD CAPACITY - PSF									
FRAME DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'		GLASS TYPES 'C' & 'D'		GLASS TYPE 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24"	48"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
30"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
32"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
36"		70.0	70.0	90.0	95.0	110.0	110.0	56.7	56.7
42"		70.0	70.0	90.0	95.0	110.0	110.0	48.6	48.6
48"		61.3	61.3	90.0	95.0	110.0	110.0	-	-
54"		61.3	61.3	90.0	95.0	110.0	110.0	-	-
24"	60"	70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
30"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
32"		70.0	70.0	90.0	95.0	110.0	110.0	60.0	60.0
36"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
42"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
48"		61.3	61.3	90.0	95.0	110.0	110.0	-	-
54"		54.4	54.4	80.0	84.4	97.8	97.8	-	-
24"	72"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
30"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
32"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
36"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
42"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
48"		61.3	61.3	90.0	95.0	110.0	110.0	-	-
54"		54.4	54.4	80.0	84.4	97.8	97.8	-	-
24"	84"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
30"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
32"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
36"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
42"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
48"		61.3	61.3	90.0	95.0	110.0	110.0	-	-
54"		-	-	80.0	84.4	97.8	97.8	-	-
24"	96"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
30"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
32"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
36"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
42"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
48"		-	-	90.0	95.0	110.0	110.0	-	-
24"	108"	70.0	70.0	90.0	95.0	110.0	110.0	-	-
30"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
32"		70.0	70.0	90.0	95.0	110.0	110.0	-	-
36"		70.0	70.0	90.0	95.0	110.0	110.0	-	-

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

Sealed: 9/22/2026

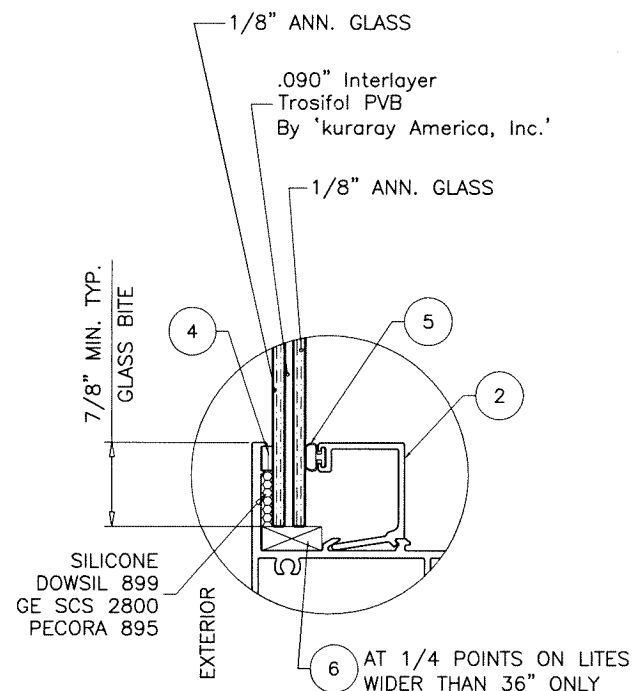
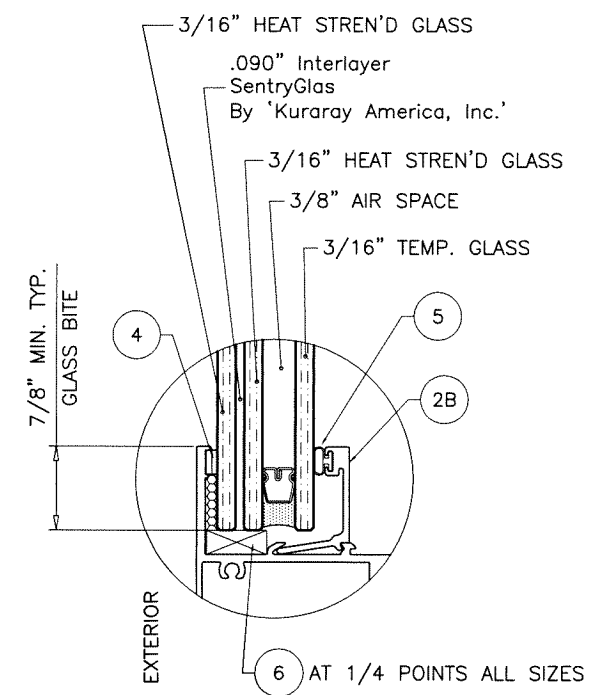
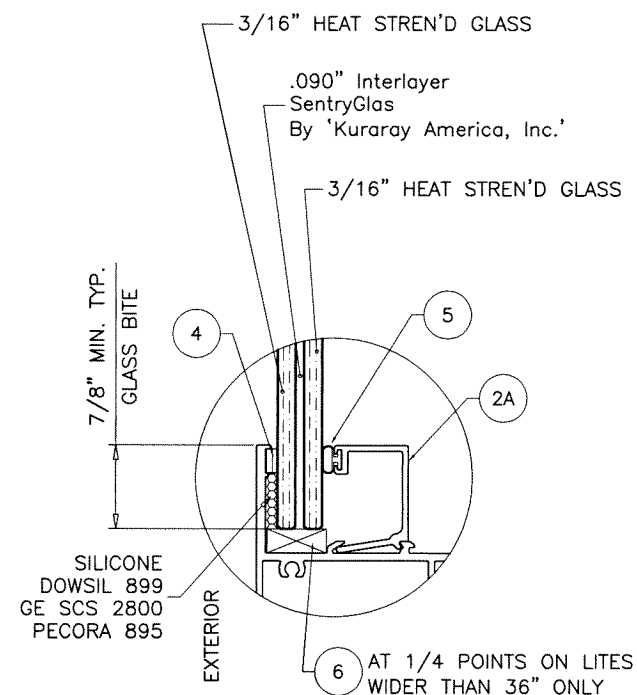
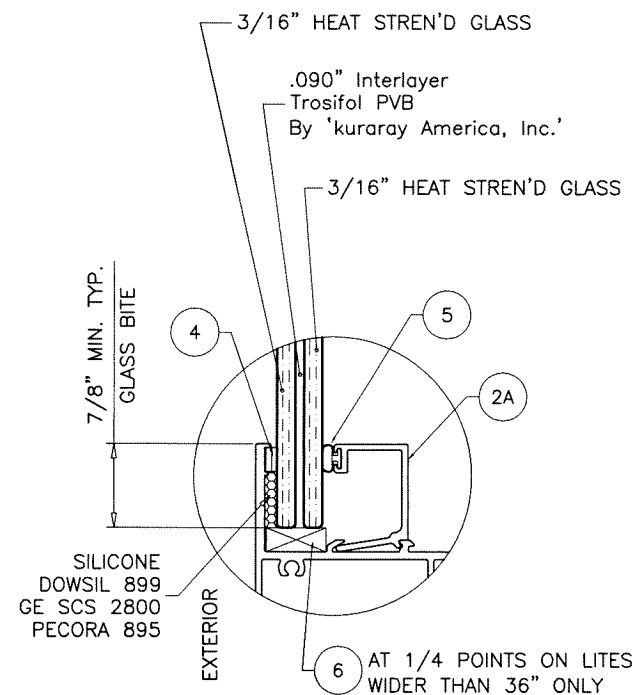
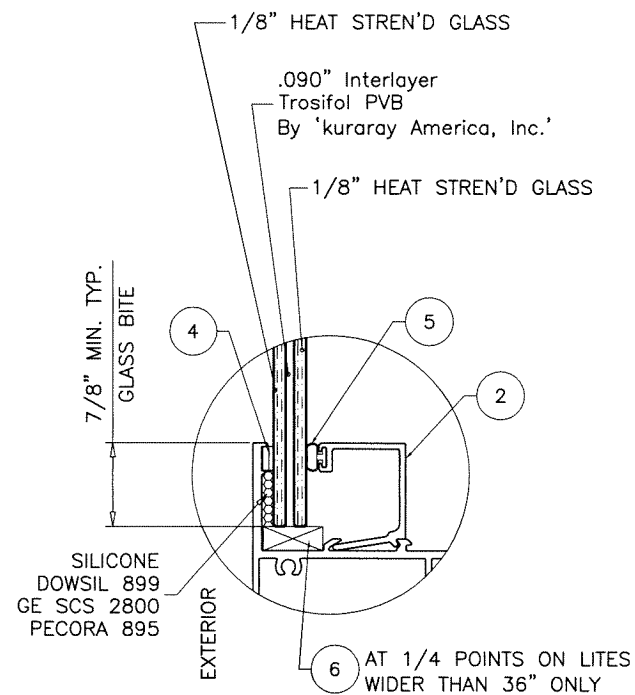


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COMP-ANL\19-120F-SWM

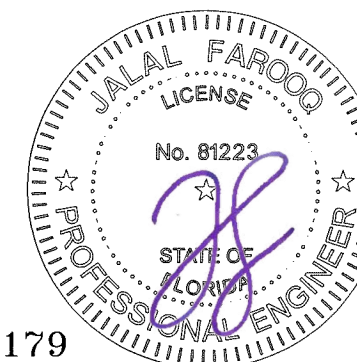
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Revisions:
no date by description
10-11-19
scale: -
dr. by: TARIQ
chk. by:
drawing no.
19-120F
sheet 2 of 6

FL #31179



3/8" 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: 9/22/2026

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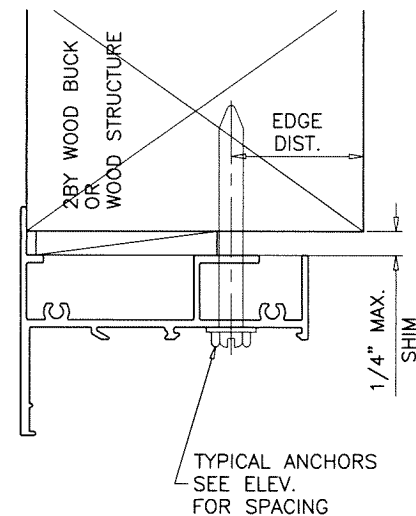
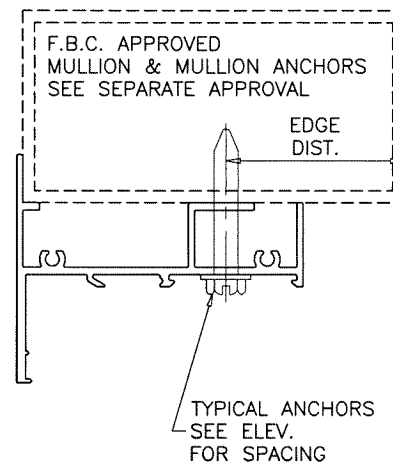
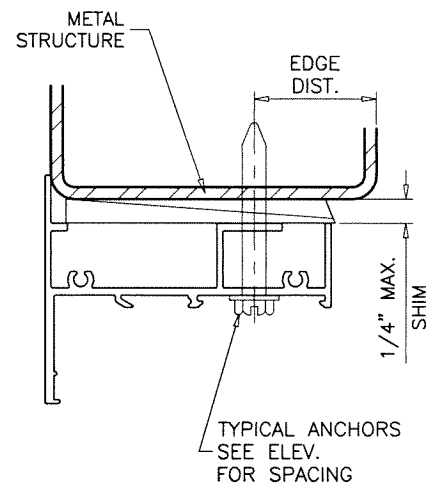
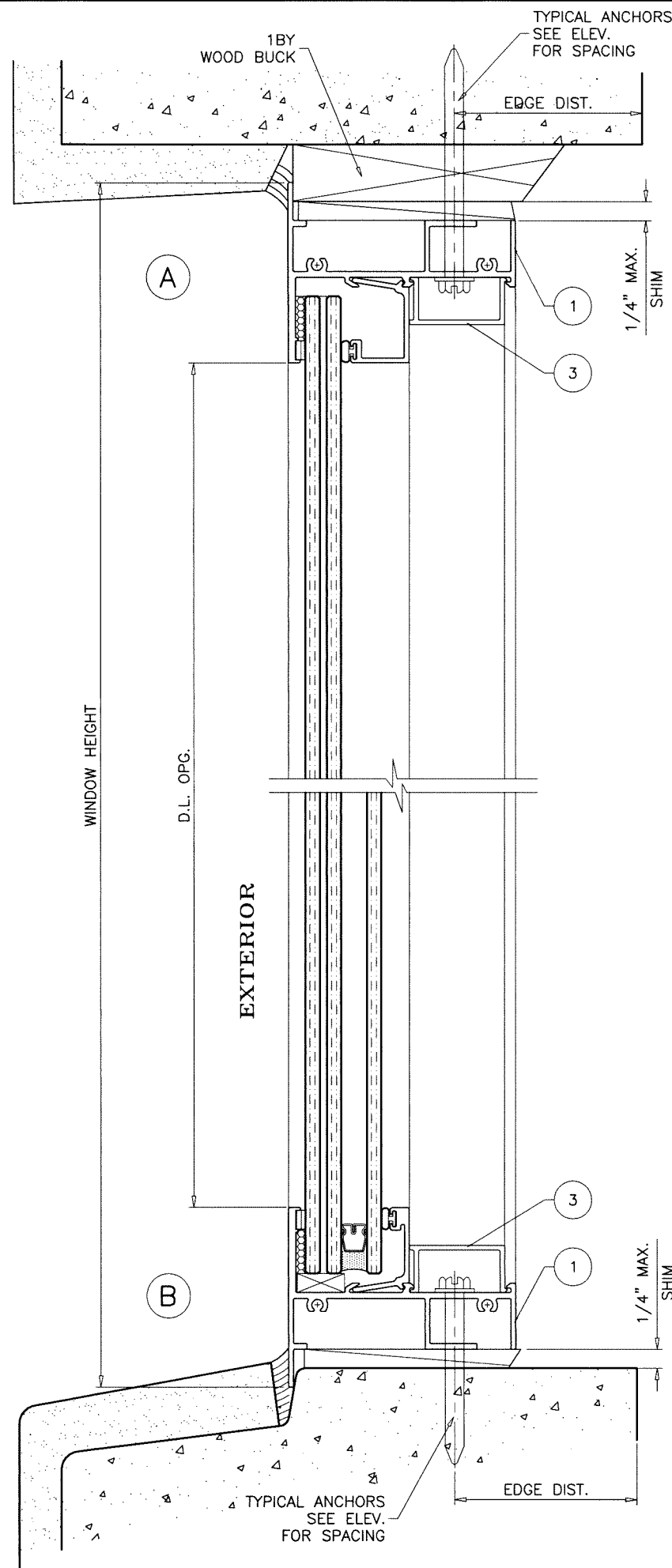
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scale: 1/2" = 1"	no	date	by
dr. by: TARIQ			
chk. by:			
drawing no. 19-120F		description	
sheet 3 of 6			



WOOD BUCKS AND METAL STRUCTURE NOT BY SUNSHINE WDWs. 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 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)

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 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.

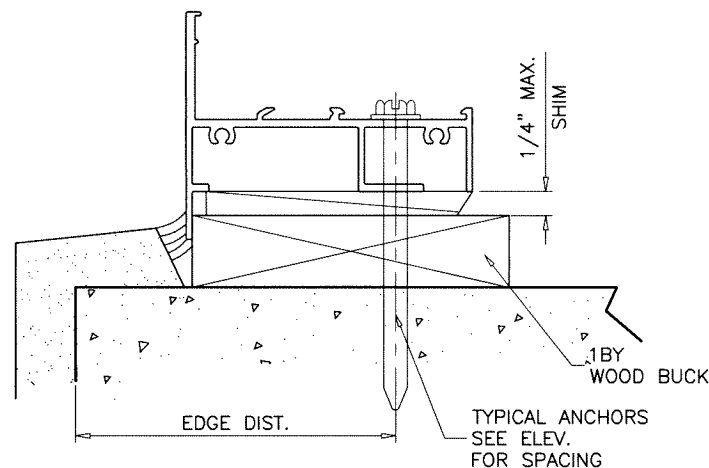
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

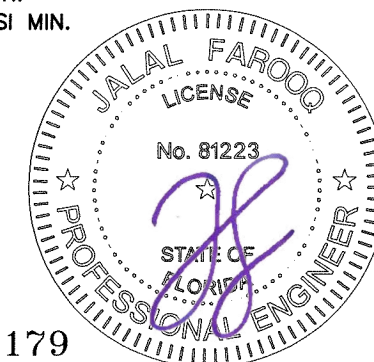
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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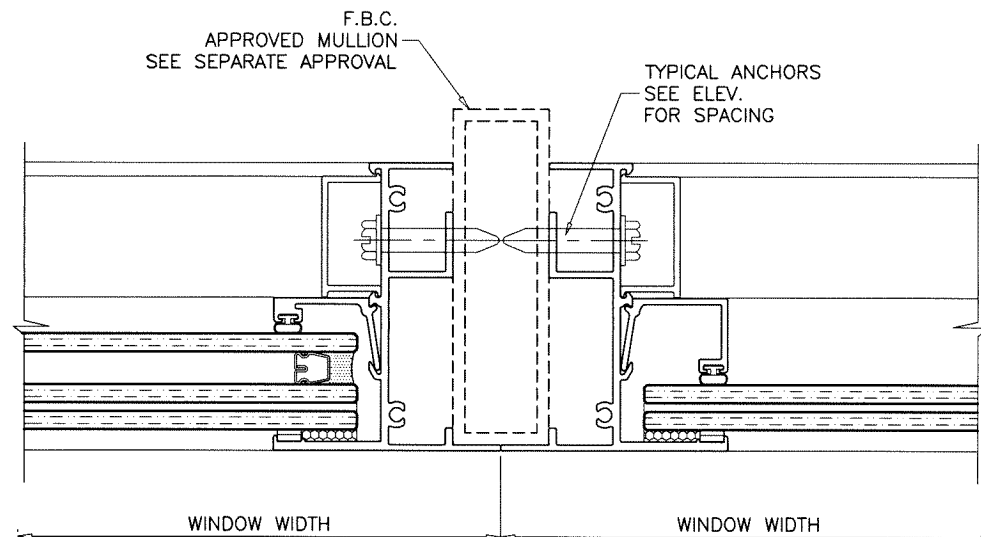
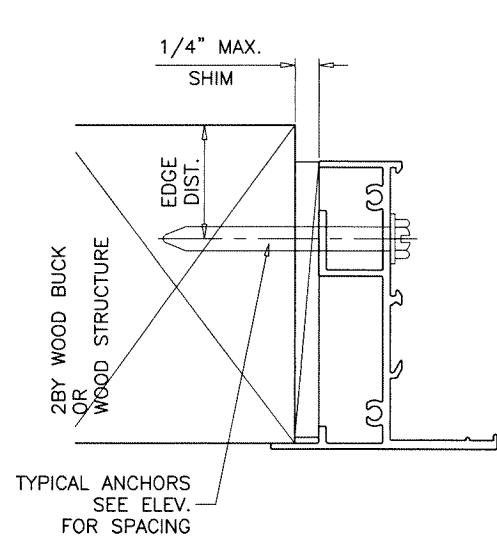
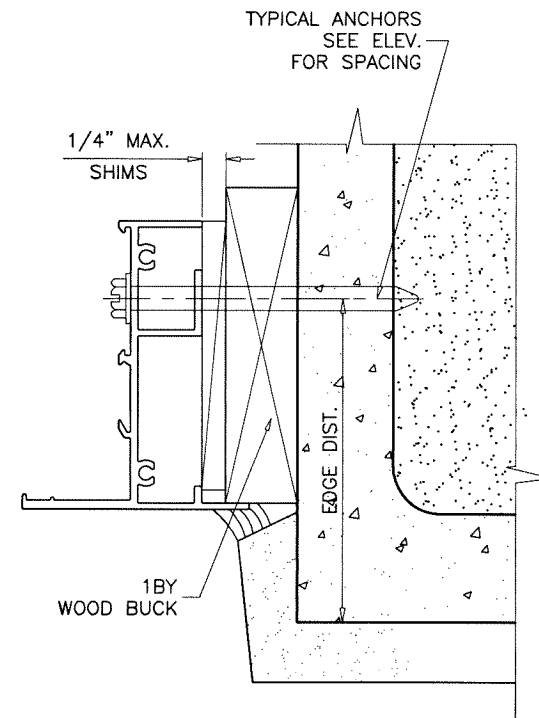
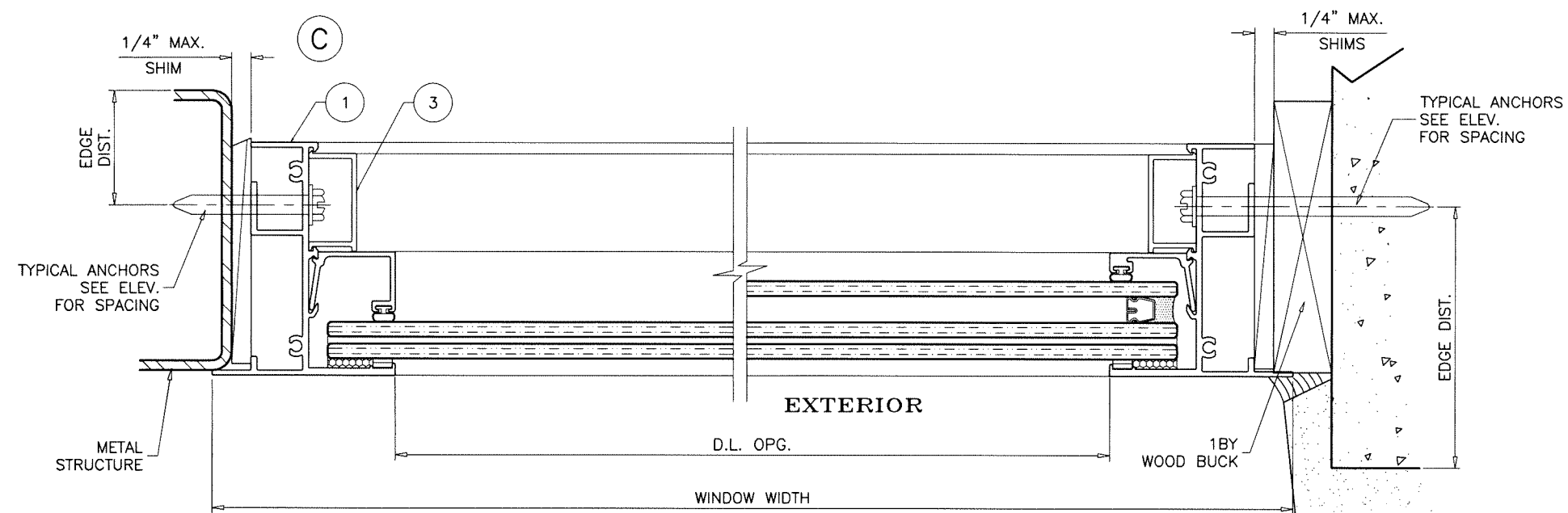
FL #31179



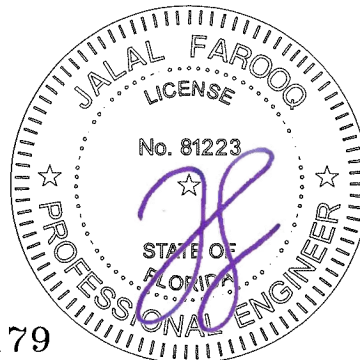
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dr. by:	TARIQ	chk. by:	
drawing no.	19-120F	sheet	4 of 6



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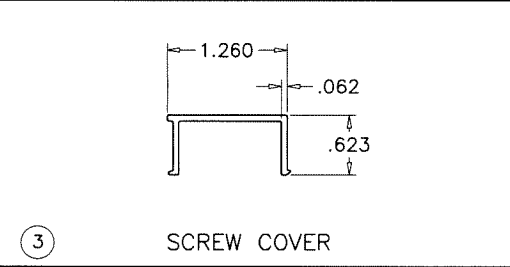
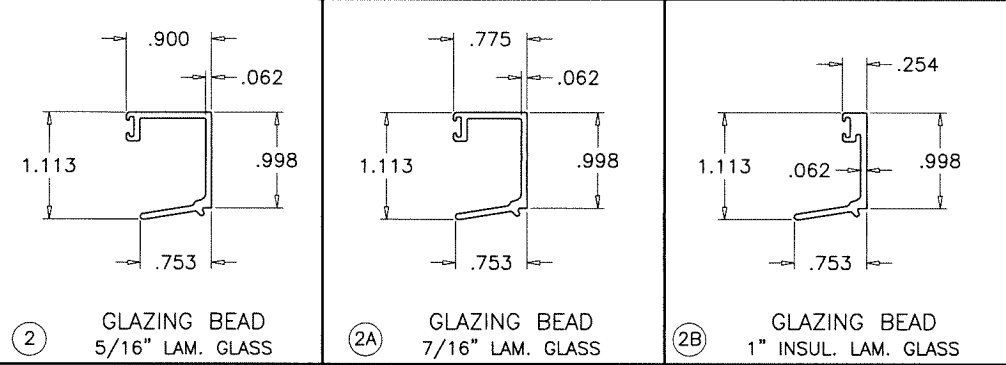
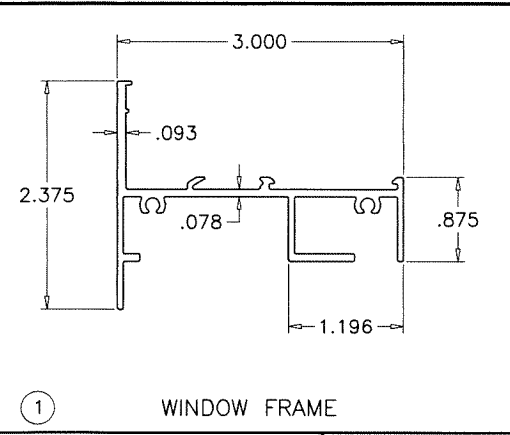
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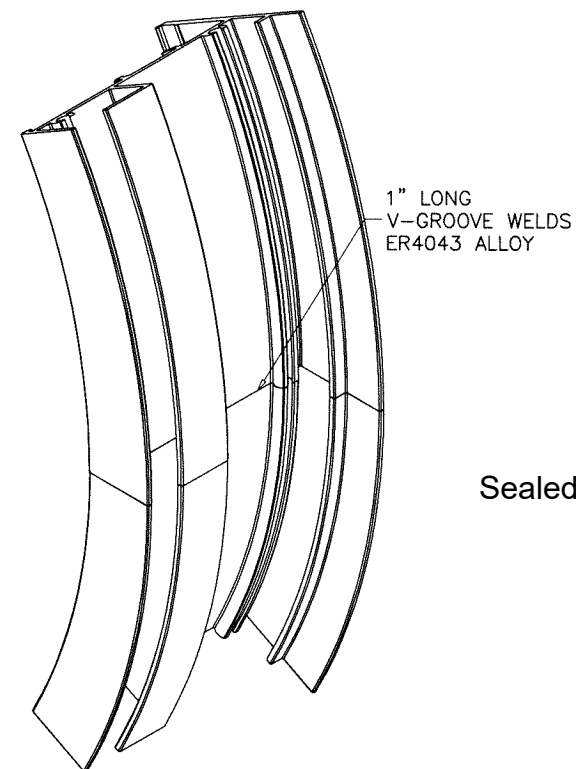
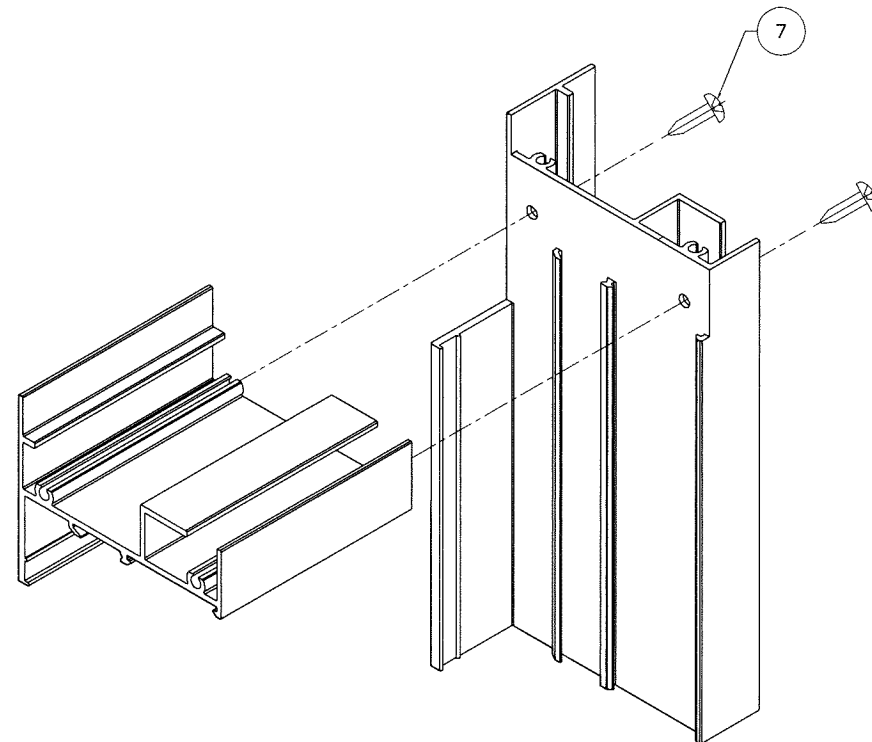
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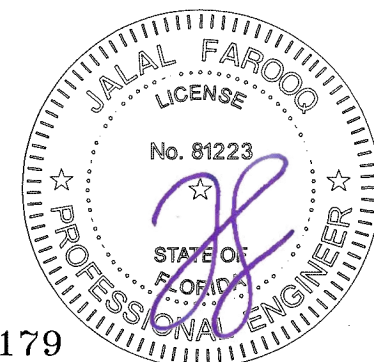
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	12063	4	WINDOW FRAME	6063-T6	-
2	12114	4	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
2A	12065	4	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
2B	12180	4	GLAZING BEAD (1" INSUL. LAM. GLASS)	6063-T6	-
3	12064	4	SCREW COVER	6063-T6	-
4	750	AS REQD.	DOUBLE FACE GLAZING TAPE (1/8" X 1/4")	PE FOAM	ZIALOC
5	MPI P/N 83010	AS REQD.	GLAZING BEAD BULB	TPV/ POLYPROPYLENE	MELTPOINT
6	SBRL1	AS REQD.	SETTING BLOCKS AT 1/4 POINTS (1/4" X 5/8")	EPDM	DUROMETER 80±5 SHORE A
7	#8 X 1"	AS REQD.	FRAME ASSEMBLY FASTENERS	CRS	P.H. SMS
8	BOSTIK 915	AS REQD.	EXTERIOR CORNER SEALANT	POLYURETHANE	-
9	-	-	-	-	-

SEALANT:

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



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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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revisions:	no	date	by	description
date:	10-11-19	scale:	1/2" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	19-120F	sheet	6 of 6	

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