

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.

SERIES-4230
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 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

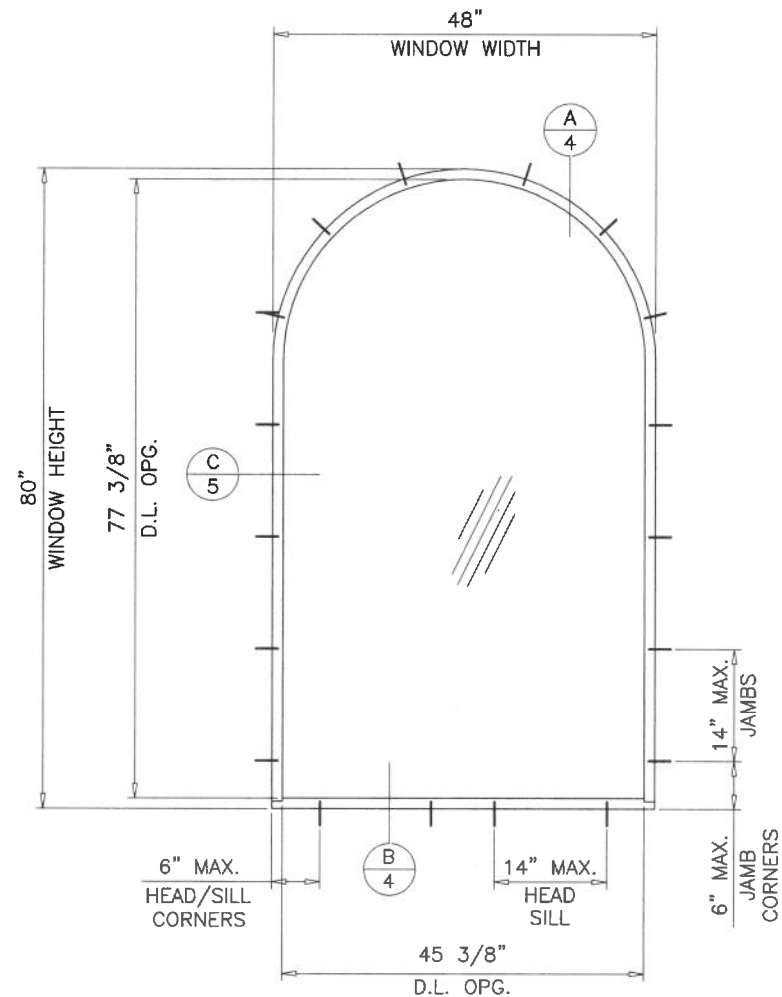
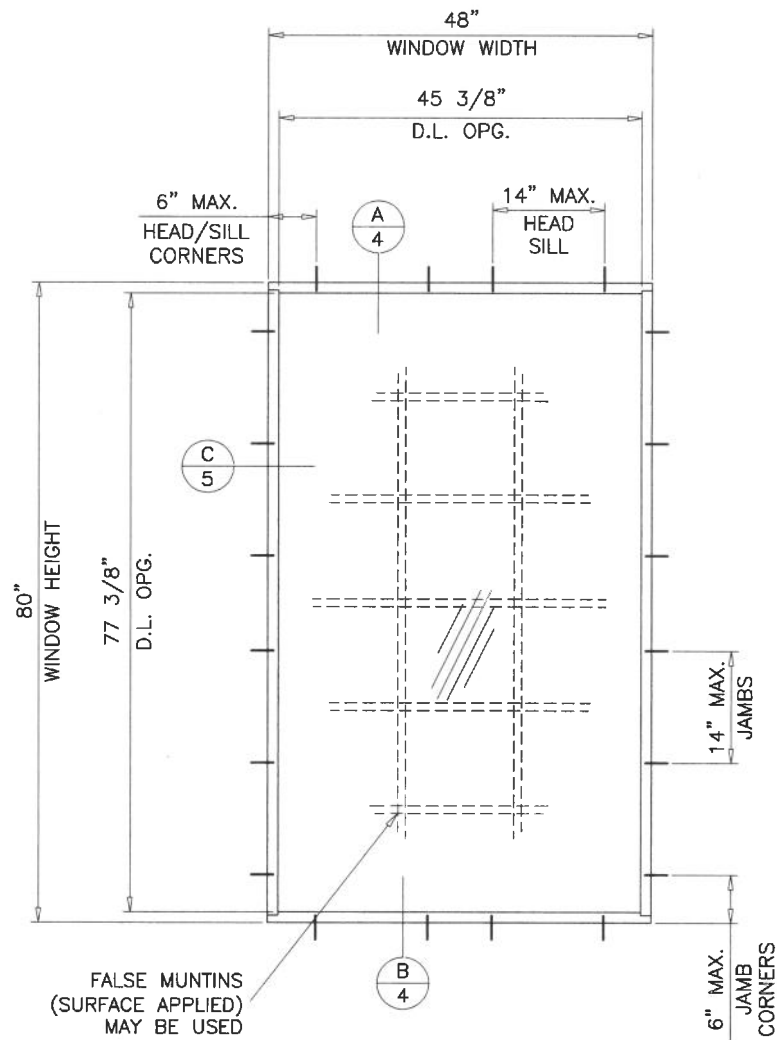
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.



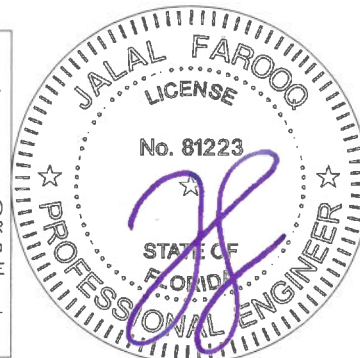
TYPICAL ELEVATIONS
(TESTED UNITS)

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: 9/24/2026

FL #31134

- 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.



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AL-FAROOQ CORPORATION
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SERIES-4230 ALUMINUM FIXED WDW. (N.I.)

Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
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revisions:	no	date	by	description
	A	08.27.18		UPDATED TO 2020 FBC
	B	07.21.23		UPDATED TO 2023 FBC
	C	09.16.26		UPDATED TO 2026 FBC

date: 11-06-19

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

dr. by: TARIQ

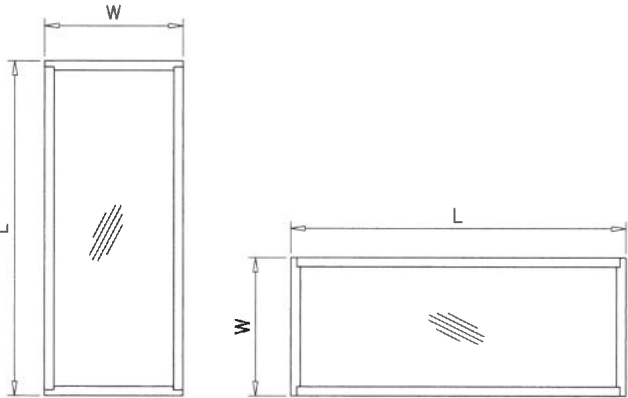
chk. by:

drawing no.

19-117F

sheet 1 of 6

DESIGN LOAD CAPACITY - PSF									
FRAME DIMS.		1/8" ANN. GLASS		3/16" ANN. GLASS		1/4" ANN. GLASS		3/16" TEMP. GLASS	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
24"	48"	49.7	49.7	60.0	60.0	75.0	75.0	100.0	100.0
30"		-	-	49.3	49.3	75.0	75.0	100.0	100.0
36"		-	-	41.1	41.1	63.9	63.9	100.0	100.0
42"		-	-	35.2	35.2	54.8	54.8	100.0	100.0
48"		-	-	30.8	30.8	47.9	47.9	87.1	87.1
54"		-	-	30.8	30.8	47.9	47.9	87.1	87.1
24"	60"	-	-	57.8	57.8	75.0	75.0	100.0	100.0
30"		-	-	49.3	49.3	73.4	73.4	100.0	100.0
36"		-	-	41.1	41.1	61.4	61.4	100.0	100.0
42"		-	-	35.2	35.2	54.8	54.8	100.0	100.0
48"		-	-	-	-	47.9	47.9	87.1	87.1
54"		-	-	-	-	42.6	42.6	77.4	77.4
24"	72"	-	-	55.5	55.5	75.0	75.0	100.0	100.0
30"		-	-	44.3	44.3	62.5	62.5	100.0	100.0
36"		-	-	39.2	39.2	49.7	49.7	100.0	100.0
42"		-	-	-	-	46.5	46.5	100.0	100.0
48"		-	-	-	-	45.2	45.2	87.1	87.1
54"		-	-	-	-	42.6	42.6	77.4	77.4
24"	84"	-	-	54.0	54.0	75.0	75.0	100.0	100.0
30"		-	-	39.8	39.8	57.4	57.4	100.0	100.0
36"		-	-	-	-	42.1	42.1	100.0	100.0
42"		-	-	-	-	38.5	38.5	100.0	100.0
48"		-	-	-	-	37.4	37.4	87.1	87.1
54"		-	-	-	-	-	-	77.4	77.4
24"	96"	-	-	52.9	52.9	75.0	75.0	100.0	100.0
30"		-	-	-	-	53.9	53.9	100.0	100.0
36"		-	-	-	-	38.8	38.8	100.0	100.0
42"		-	-	-	-	31.9	31.9	100.0	100.0
48"		-	-	-	-	-	-	87.1	87.1
54"		-	-	-	-	-	-	-	-
24"	108"	-	-	52.0	52.0	75.0	75.0	100.0	100.0
30"		-	-	-	-	51.6	51.6	100.0	100.0
36"		-	-	-	-	36.4	36.4	100.0	100.0
42"		-	-	-	-	-	-	98.1	98.1
46"		-	-	-	-	-	-	82.6	82.6
54"		-	-	-	-	-	-	-	-
24"	120"	-	-	-	-	75.0	75.0	100.0	100.0
30"		-	-	-	-	50.1	50.1	100.0	100.0
36"		-	-	-	-	-	-	95.3	95.3



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: 9/24/2026

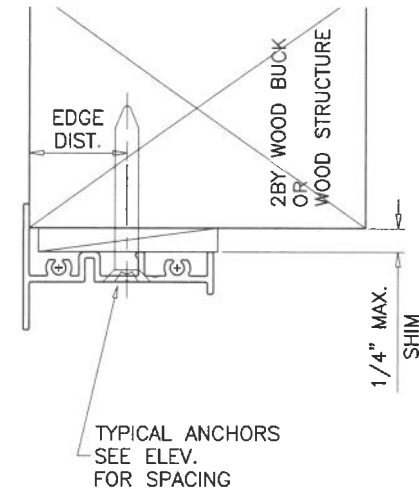
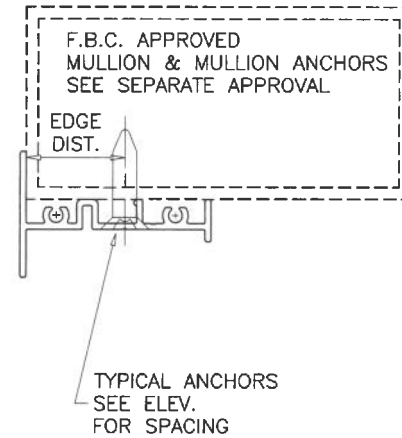
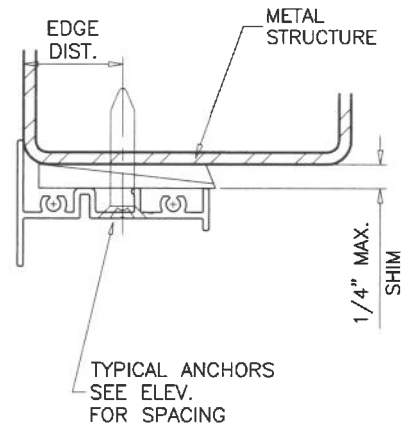
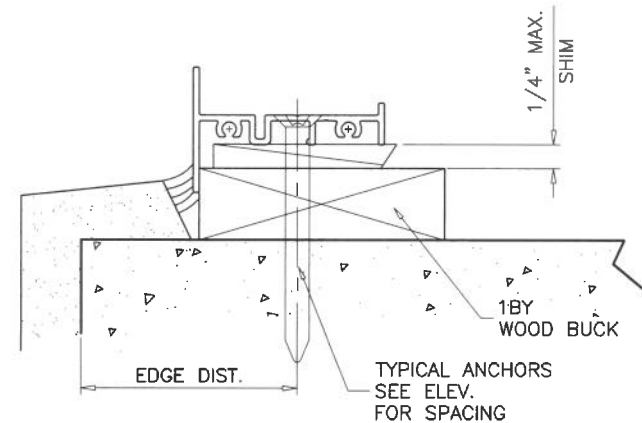
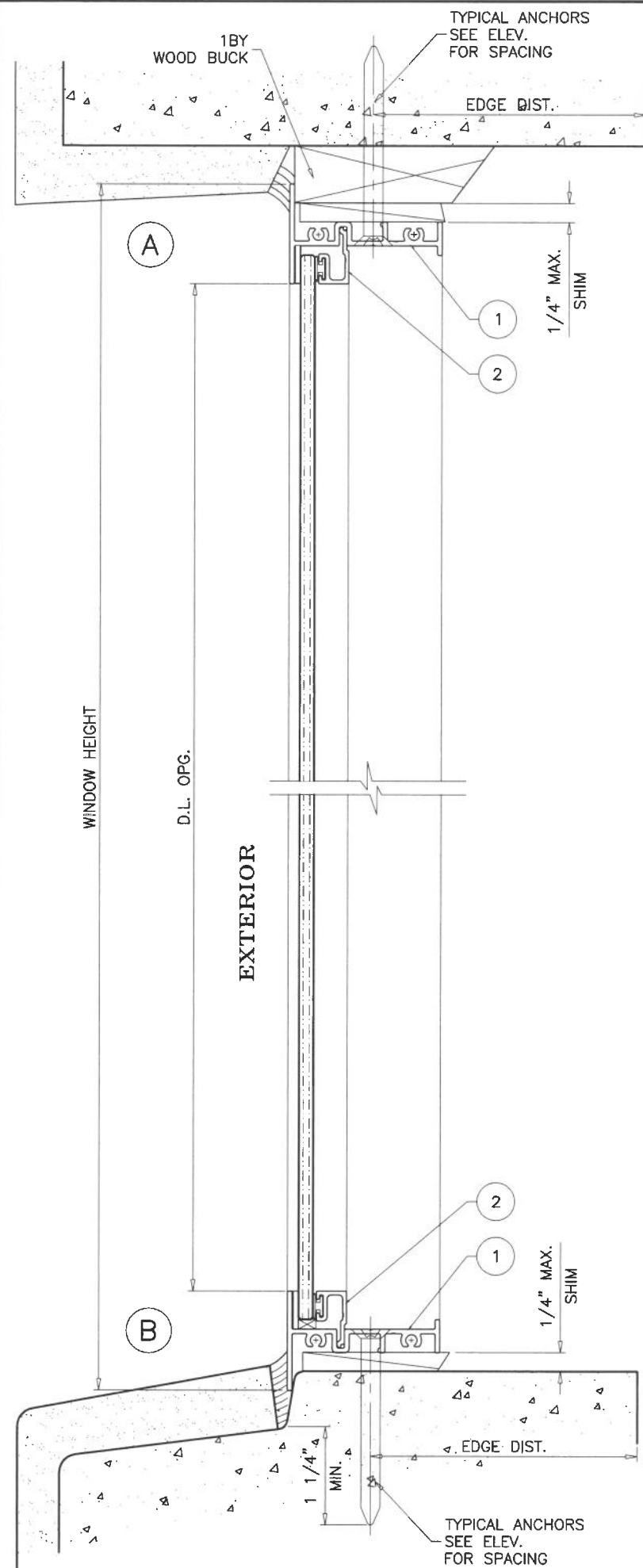


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revisions:
no date by description
11-06-19
scale: -
dr. by: TARIQ
chk. by:
drawing no.
19-117F
sheet 3 of 6



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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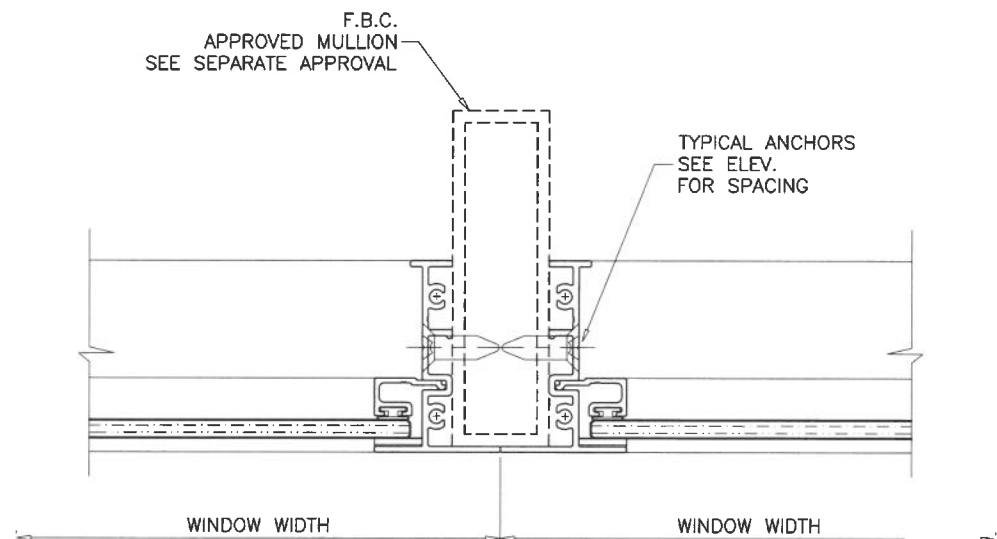
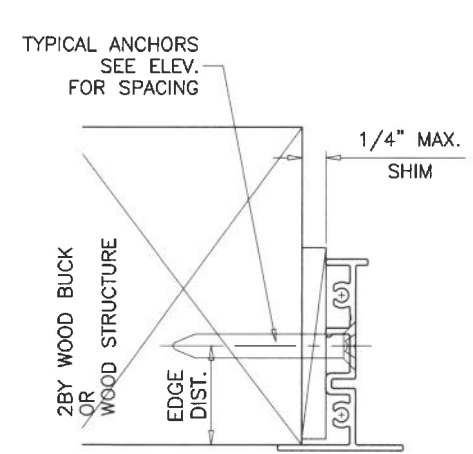
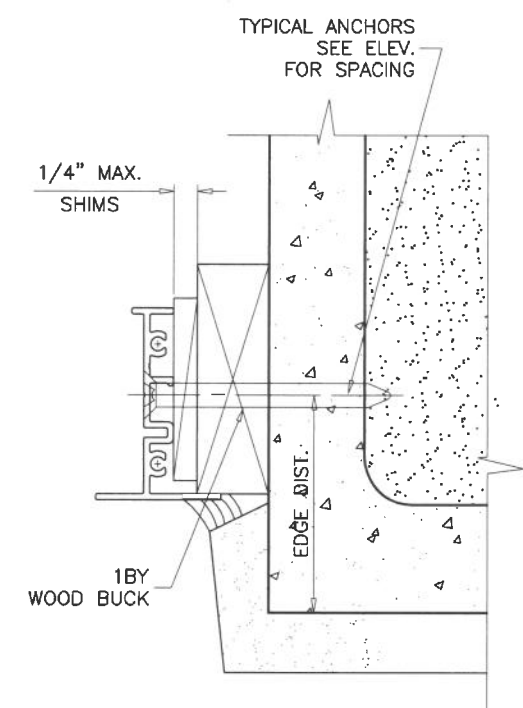
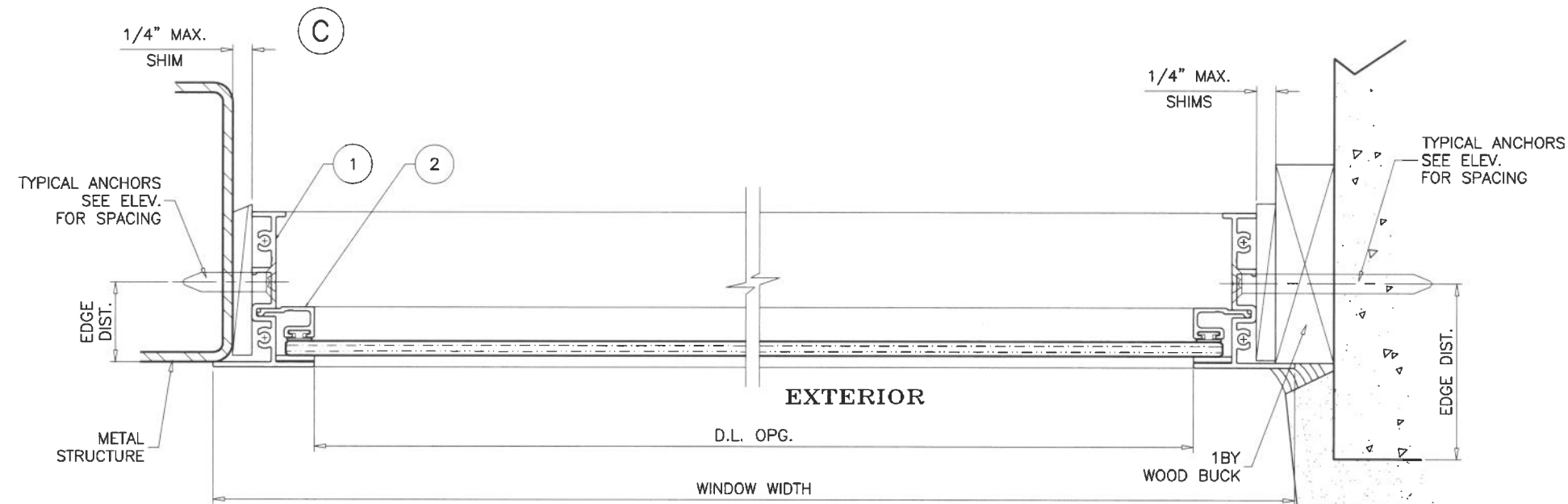
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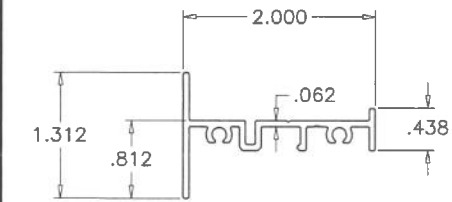
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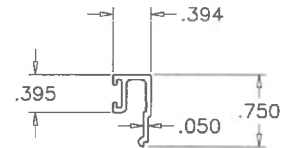
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sheet 5 of 6



1 WINDOW FRAME

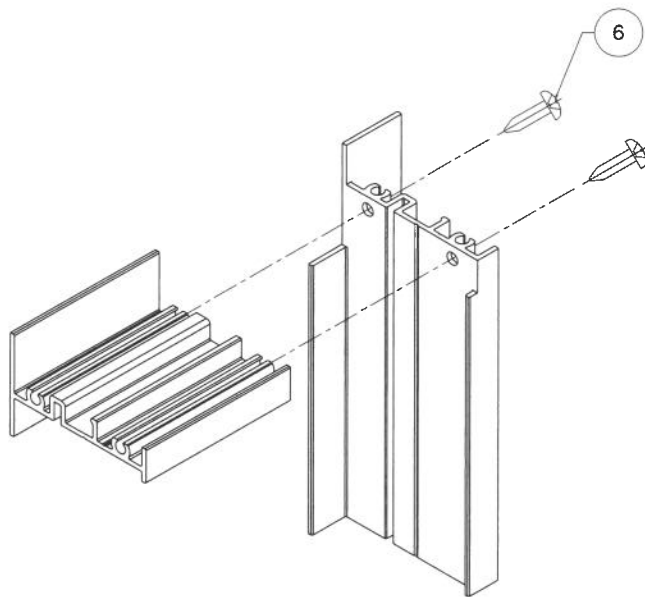


2 GLZING BEAD

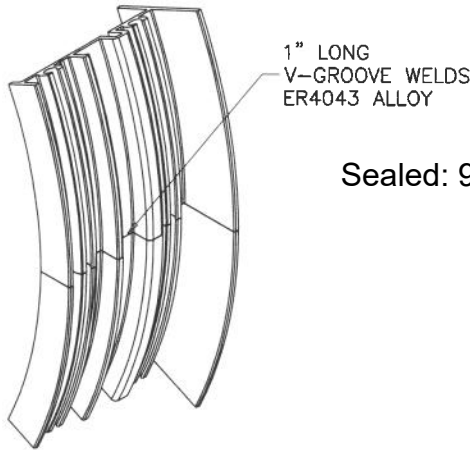
ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SW-101	4	WINDOW FRAME	6063-T6	-
2	SW-102	4	GLAZING BEAD	6063-T6	-
3	750	AS REQD.	DOUBLE FACE GLAZING TAPE (1/8" X 1/2")	PE FOAM	ZIALOC
4	SW-3082	AS REQD.	GLAZING BEAD BULB	TPV/ POLYPROPYLENE	MELTPPOINT
5	SBEP2	AS REQD.	SETTING BLOCKS AT 1/4 POINTS (1/4" X 5/8")	EPDM	DUROMETER 80±5 SHORE A
6	#8 X 1"	AS REQD.	FRAME ASSEMBLY FASTENERS	CRS	P.H. SMS
7	BOSTIK 915	AS REQD.	EXTERIOR CORNER SEALANT	POLYURETHANE	-
8	-	-	-	-	-

SEALANT:

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



RECT. OR SQUARE WINDOWS



CIRCULAR WINDOWS

Sealed: 9/24/2026



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