

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

SERIES 2009 ALUMINUM FIXED WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER
CHARTS SHOWN ON SHEET 2.

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).

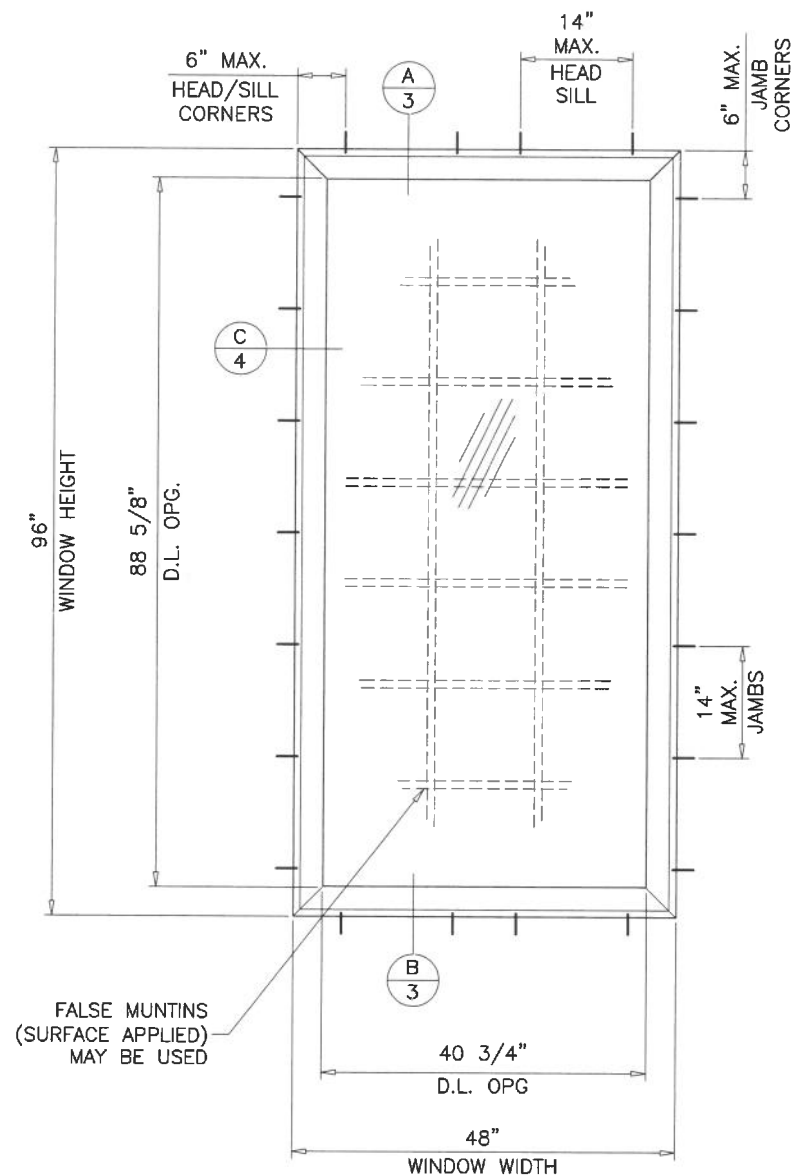
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

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 ELEVATION
TESTED UNIT

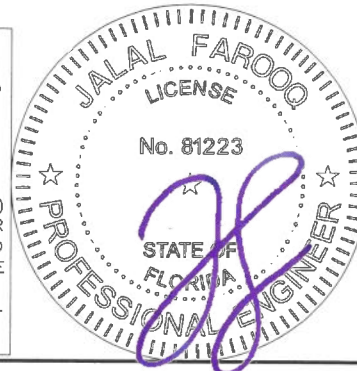
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET
CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES.
COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

LAMINATED GLASS
LARGE MISSILE IMPACT

Sealed: 7/17/2026

FL #47405

- 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.



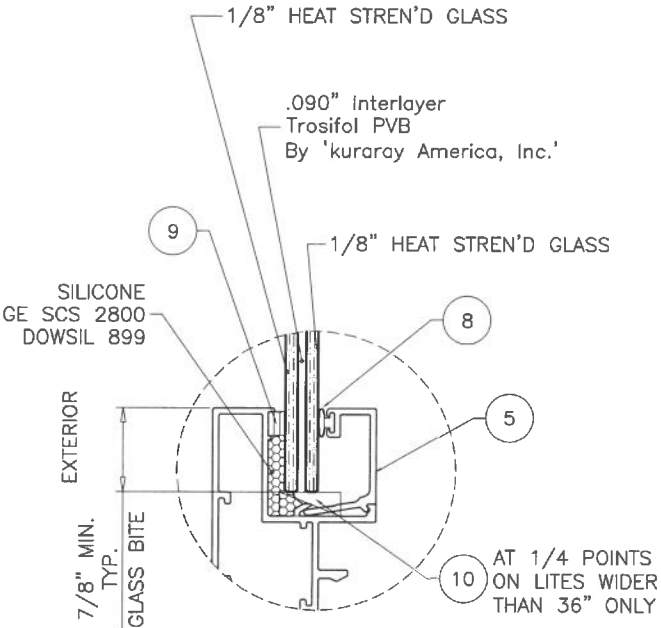
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL\25-31F-SWM

SERIES 2009 ALUMINUM FIXED WDW. (L.M.I.)
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
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Tel. (305) 364-9952 Fax. (305) 828-5118

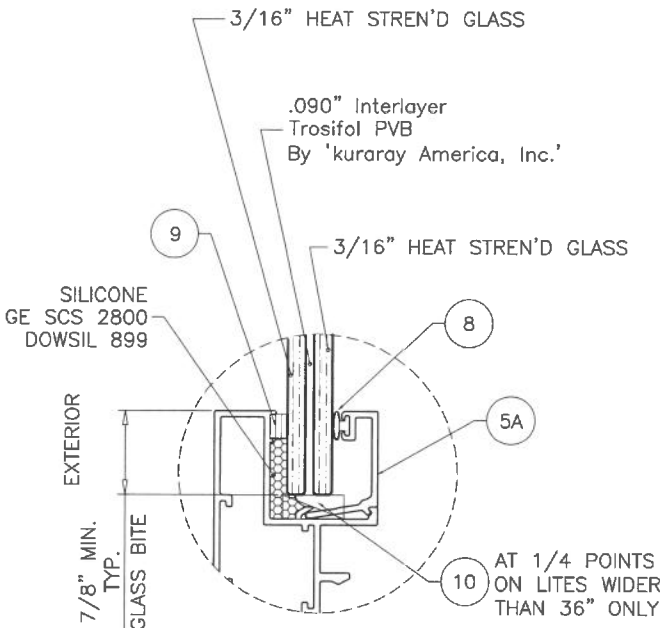
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dr. by: TARIQ		A	07.14.26 UPDATED TO 2026 FBC
chk. by:			
drawing no.			
25-31F			
sheet 1 of 7			

DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
19-1/8"	26"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		70.0	70.0	90.0	95.0
19-1/8"	38-3/8"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		70.0	70.0	90.0	95.0
19-1/8"	50-5/8"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		58.1	58.1	85.3	90.1
19-1/8"	56"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		55.3	55.3	81.3	85.8
19-1/8"	63"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		55.3	55.3	81.3	85.8
19-1/8"	72"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		55.3	55.3	81.3	85.8
19-1/8"	76"	70.0	70.0	90.0	95.0
26-1/2"		70.0	70.0	90.0	95.0
37"		70.0	70.0	90.0	95.0
53-1/8"		-	-	81.3	85.8

DESIGN LOAD CAPACITY - PSF					
FRAME DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	1NT.(-)	EXT.(+)	1NT.(-)
24"	48"	70.0	70.0	90.0	95.0
30"		70.0	70.0	90.0	95.0
32"		70.0	70.0	90.0	95.0
36"		70.0	70.0	90.0	95.0
42"		70.0	70.0	90.0	95.0
48"		61.3	61.3	90.0	95.0
54"	60"	61.3	61.3	90.0	95.0
24"		70.0	70.0	90.0	95.0
30"		70.0	70.0	90.0	95.0
32"		70.0	70.0	90.0	95.0
36"		70.0	70.0	90.0	95.0
42"		70.0	70.0	90.0	95.0
48"	72"	61.3	61.3	90.0	95.0
54"		54.4	54.4	80.0	84.4
24"		70.0	70.0	90.0	95.0
30"		70.0	70.0	90.0	95.0
32"		70.0	70.0	90.0	95.0
36"		70.0	70.0	90.0	95.0
42"	84"	70.0	70.0	90.0	95.0
48"		61.3	61.3	90.0	95.0
54"		54.4	54.4	80.0	84.4
24"		70.0	70.0	90.0	95.0
30"		70.0	70.0	90.0	95.0
32"		70.0	70.0	90.0	95.0
36"	96"	70.0	70.0	90.0	95.0
42"		70.0	70.0	90.0	95.0
48"		70.0	70.0	90.0	95.0
54"		61.3	61.3	90.0	95.0
24"		70.0	70.0	90.0	95.0
30"		70.0	70.0	90.0	95.0
32"	108"	70.0	70.0	90.0	95.0
36"		70.0	70.0	90.0	95.0
42"		70.0	70.0	90.0	95.0
48"		70.0	70.0	90.0	95.0
54"		-	-	90.0	95.0
24"		70.0	70.0	90.0	95.0



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



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

GLAZING OPTIONS

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

Sealed: 7/17/2026

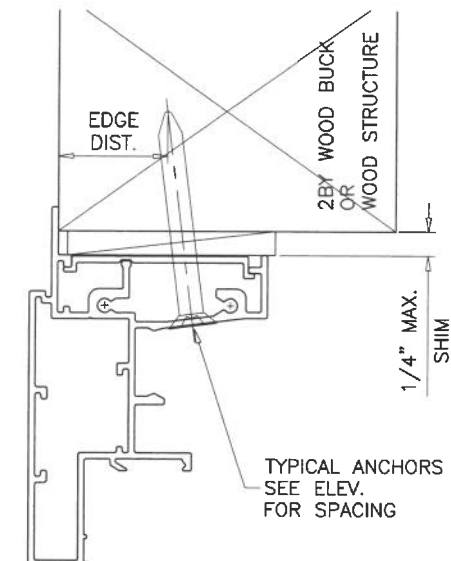
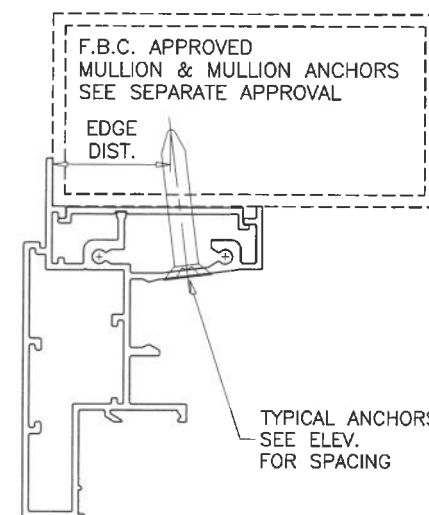
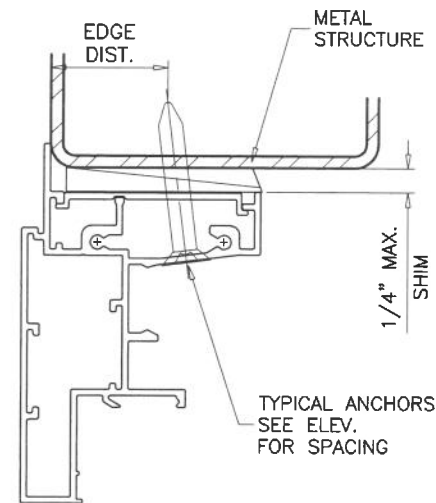
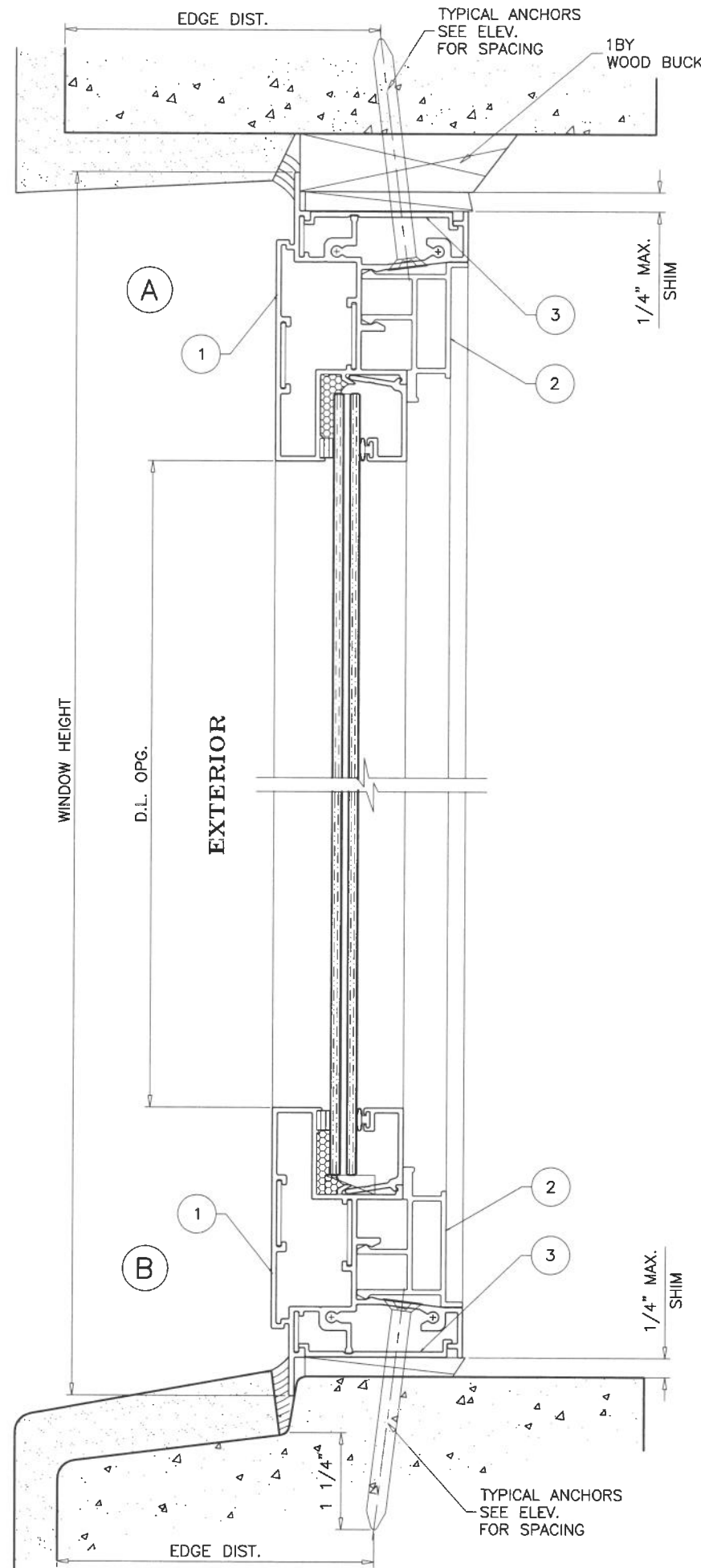
FL #47405



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revisions:	no	date	by	description
date:	02-25-25	scale:	1/2" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	25-31F	sheet	2 of 7	



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' ($F_u=164$ KSI, $F_y=148$ 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. 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. ($F_y = 36$ KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

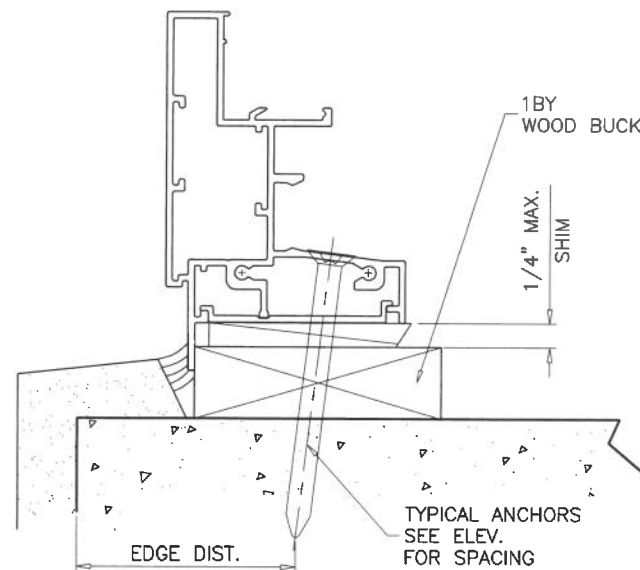
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

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

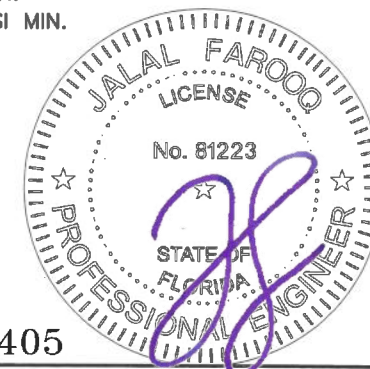
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

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



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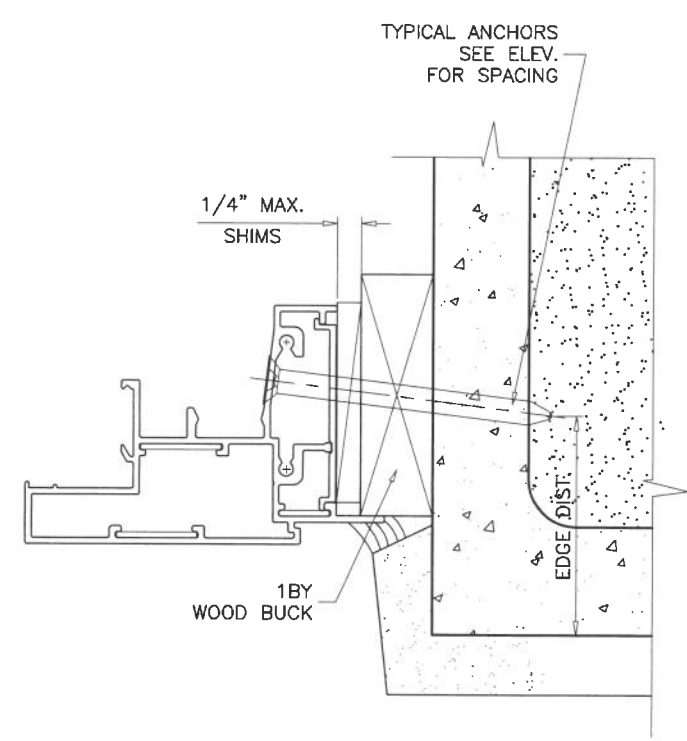
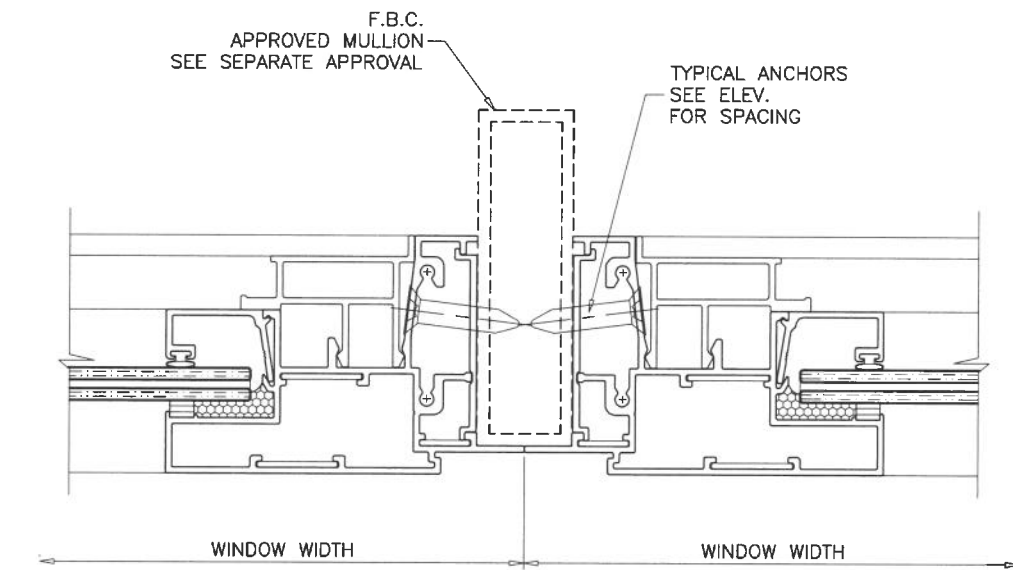
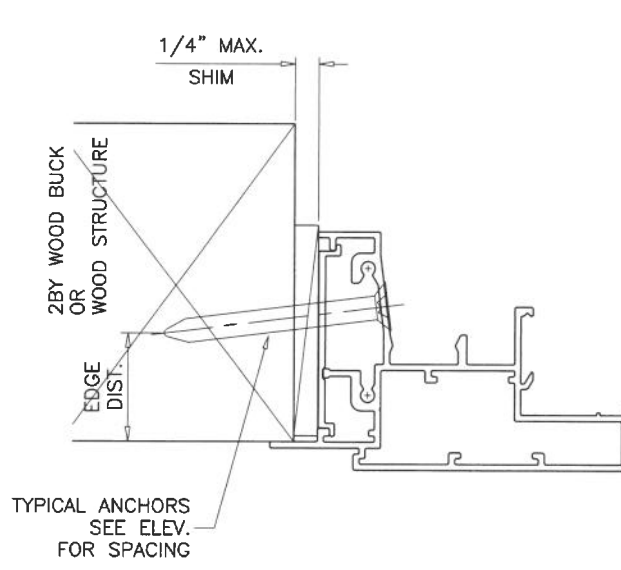
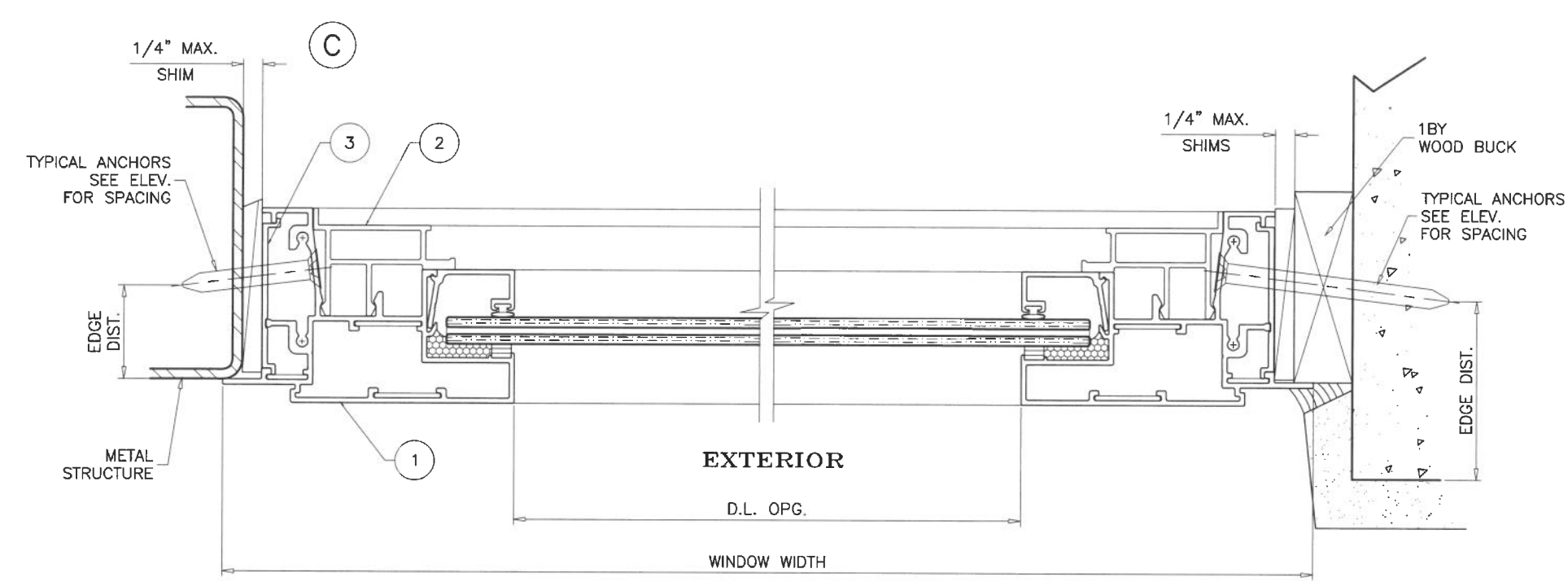
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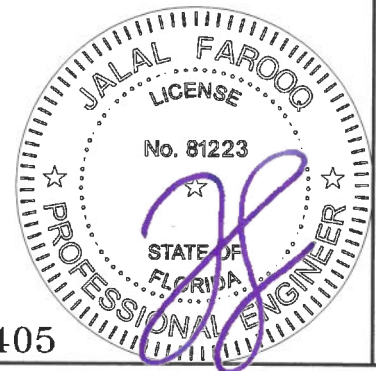
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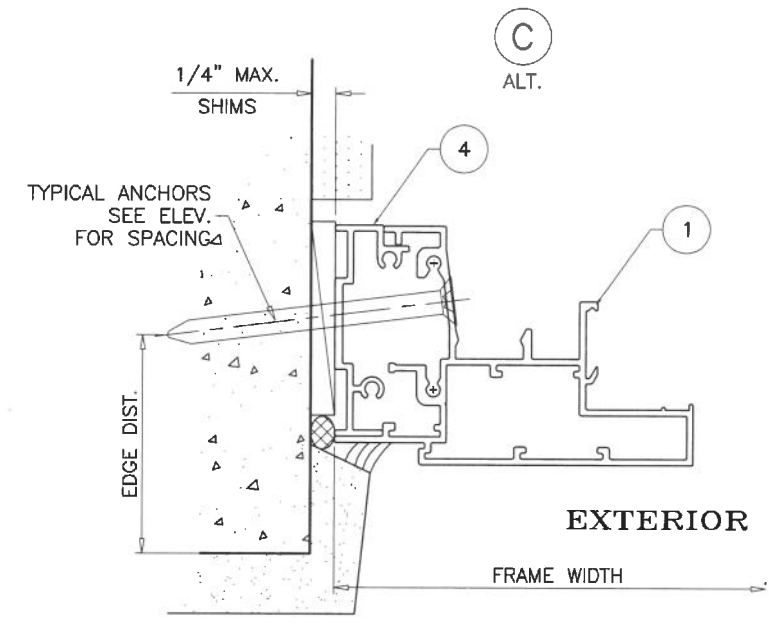
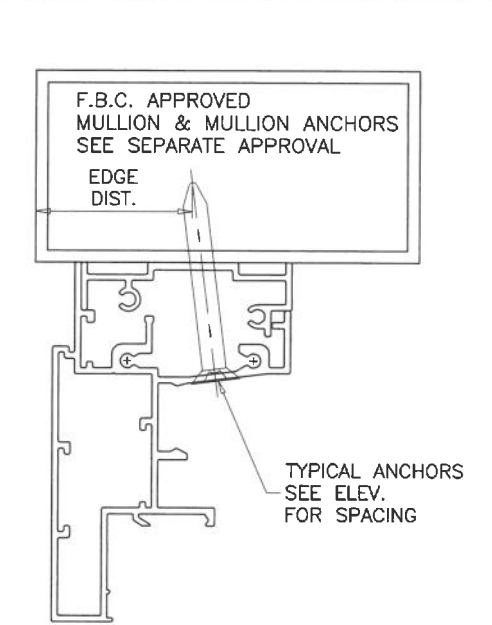
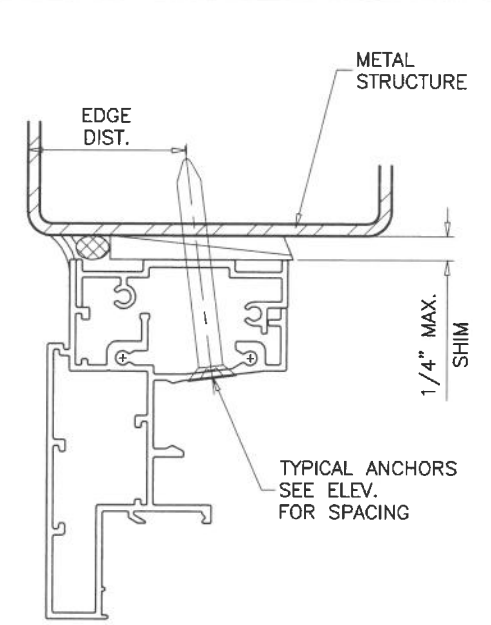
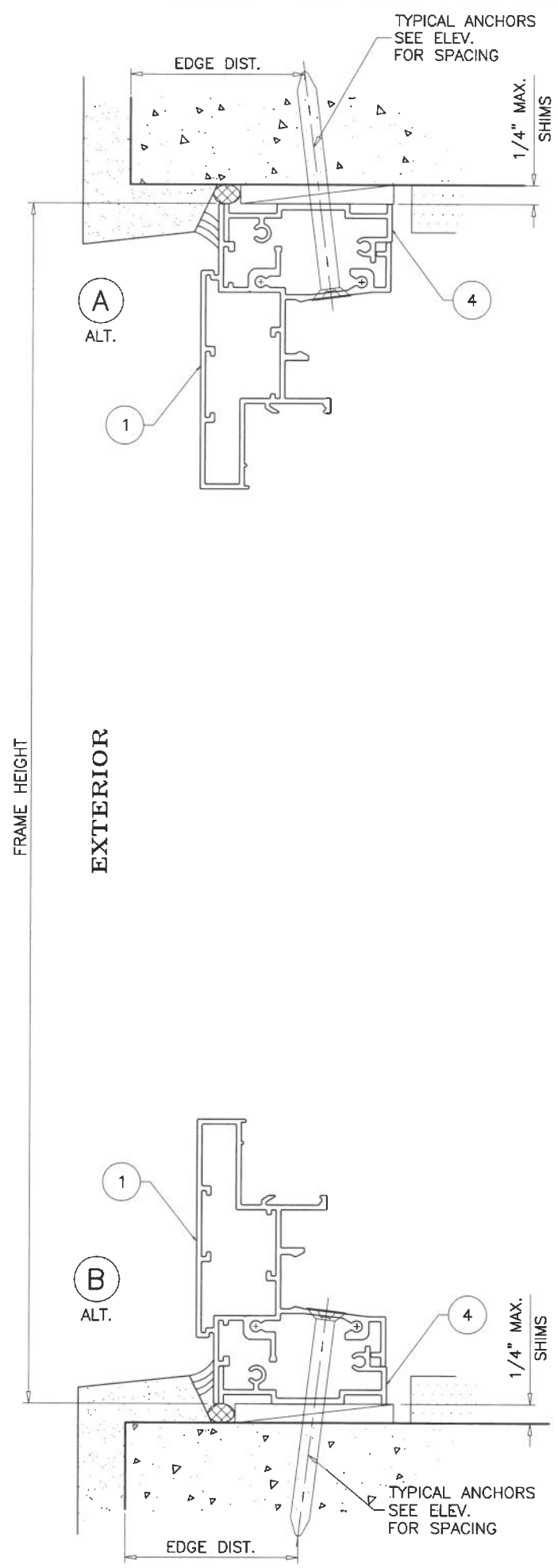
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drawing no.
25-31F
sheet 4 of 7



FLANGE FRAMES WITH EQUAL LEG ADAPTERS
SEE SHEETS 3 & 4 FOR WINDOW DETAILS

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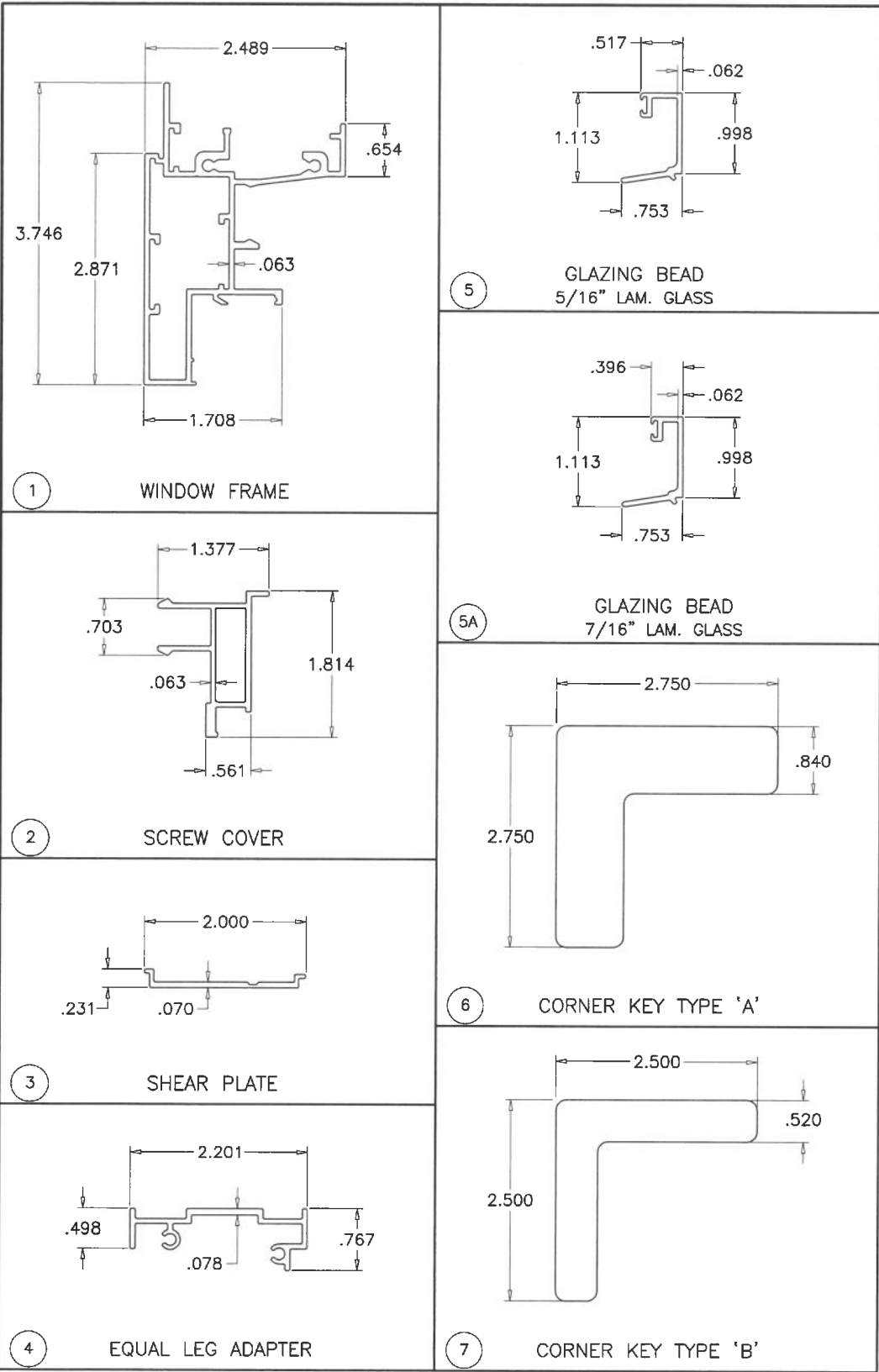
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sheet		5 of 7		



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SSW-104	4	FRAME HEAD/SILL/JAMB	6063-T6	-
2	SSW-105	4	SCREW COVER	6063-T6	-
3	SSW-042	AS REQD.	SHEAR PLATE	6063-T6	-
4	SSW-112	AS REQD.	EQUAL LEG ADAPTER	6063-T6	-
5	SSW-066	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
5A	TGOC-3669	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
6	PJS-47-SS	2/ CORNER	CORNER KEY TYPE A (.058" THK.)	ST. STEEL	-
7	PJS-45-SS	1/ CORNER	CORNER KEY TYPE B (.058" THK.)	ST. STEEL	-
8	MPI P/N 83010	AS REQD.	GLAZING BEAD BULB	TPV/POLYPROPYLENE	MELTPPOINT
9	750	AS REQD.	1/4" X 1/4" DOUBLE FACE GLAZING TAPE	PE FOAM	ZIALOC
10	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 80±5 SHORE A
11	#8 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	CRS	PH SMS
12	-	-	-	-	-

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



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