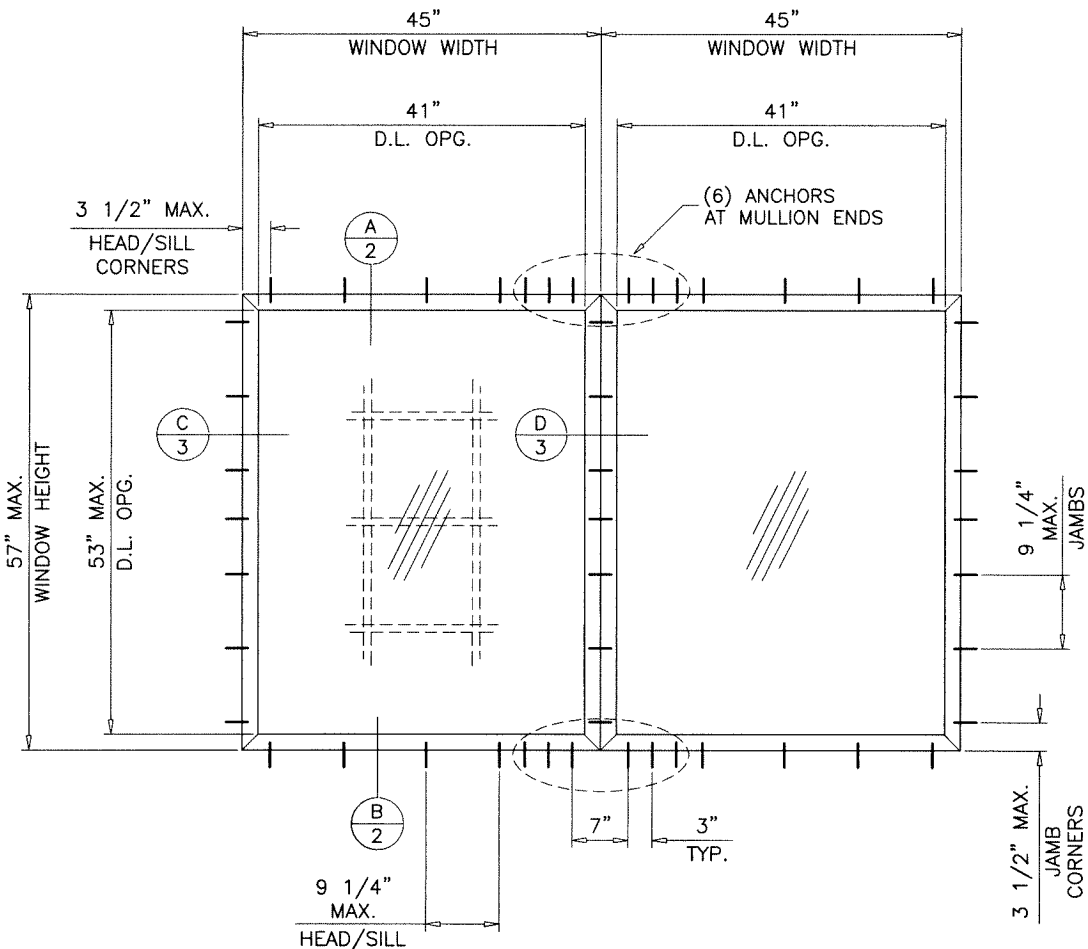
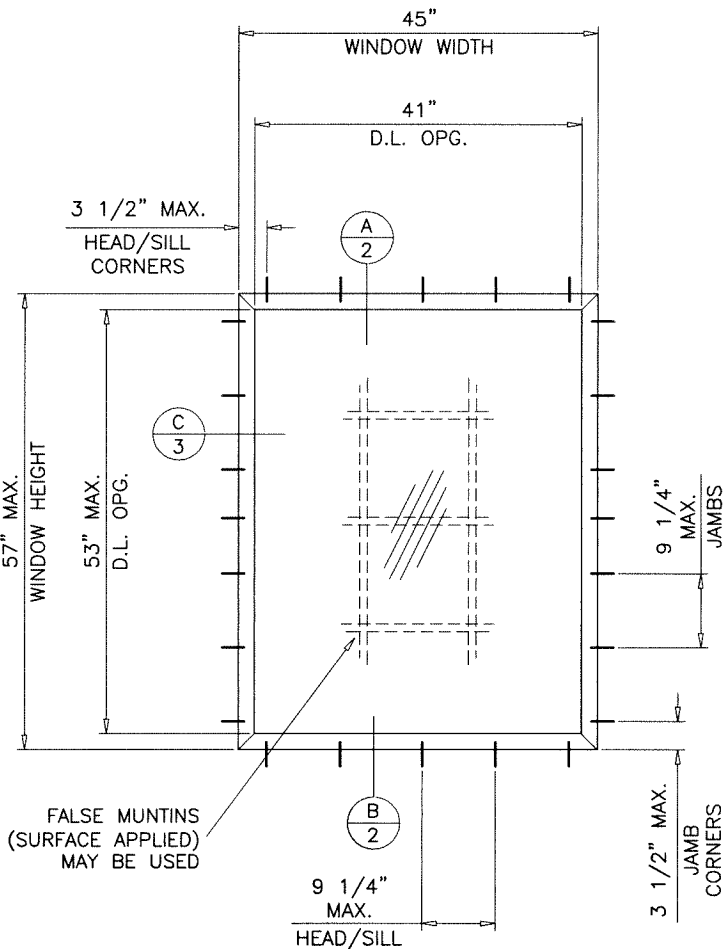


DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		3/16" THK. GLASS CERAMIC	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
19-1/8"	26"	75.0	75.0
26-1/2"		75.0	75.0
37"		75.0	75.0
53-1/8"		69.3	69.3
19-1/8"	38-3/8"	75.0	75.0
26-1/2"		75.0	75.0
37"		60.8	60.8
53-1/8"		55.6	55.6
19-1/8"	50-5/8"	75.0	75.0
26-1/2"		69.6	69.6
37"		58.0	58.0
19-1/8"	57"	75.0	75.0
26-1/2"		64.1	64.1
37"		46.8	46.8
18"	18"	75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
36"		75.0	75.0
45"		75.0	75.0
48"		75.0	75.0
57"		75.0	75.0
18"		71.9	71.9
24"	24"	75.0	75.0
30"		75.0	75.0
36"		75.0	75.0
45"		75.0	75.0
48"	24"	75.0	75.0
57"		71.9	71.9
18"	30"	75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
36"		75.0	75.0
45"		68.1	68.1
48"		66.0	66.0
57"	30"	60.4	60.4

DESIGN LOAD CAPACITY - PSF			
FRAME DIMS.		3/16" THK. GLASS CERAMIC	
WIDTH	HEIGHT	EXT.(+)	INT.(-)
18"	36"	75.0	75.0
24"		75.0	75.0
30"		75.0	75.0
36"		62.5	62.5
45"		62.5	62.5
48"		60.5	60.5
57"	45"	75.0	75.0
24"		75.0	75.0
30"		68.1	68.1
36"		62.5	62.5
45"		50.0	50.0
48"		50.0	50.0
57"	48"	75.0	75.0
24"		75.0	75.0
30"		66.0	66.0
36"		60.5	60.5
45"		50.0	50.0
48"		46.9	46.9
18"	57"	75.0	75.0
24"		71.9	71.9
30"		60.4	60.4
36"		54.5	54.5
45"	57"	49.3	49.3



TYPICAL ELEVATIONS
(TESTED UNITS)

SERIES F-2009 STEEL FRAME FIXED WINDOW
90 MIN. FIRE RATED

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ABOVE.

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 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 2023/2026 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

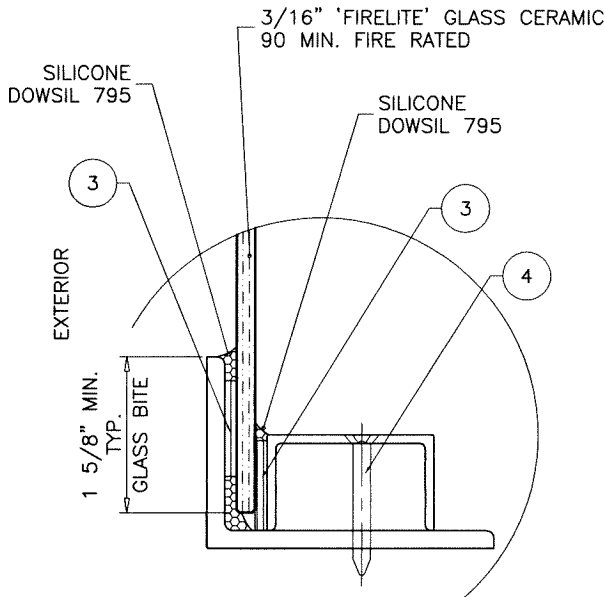
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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.



GLAZING DETAIL

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

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.

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.

MONOLITHIC GLASS
NON IMPACT

Sealed: 9/1/2026

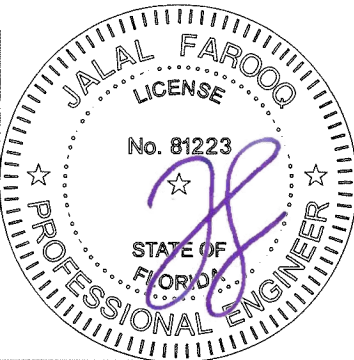
FL #32020

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
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\20-25F-SWM

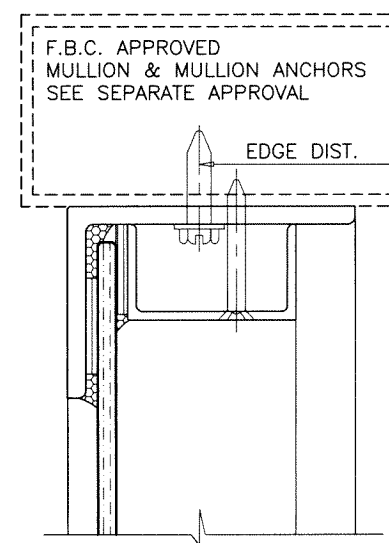
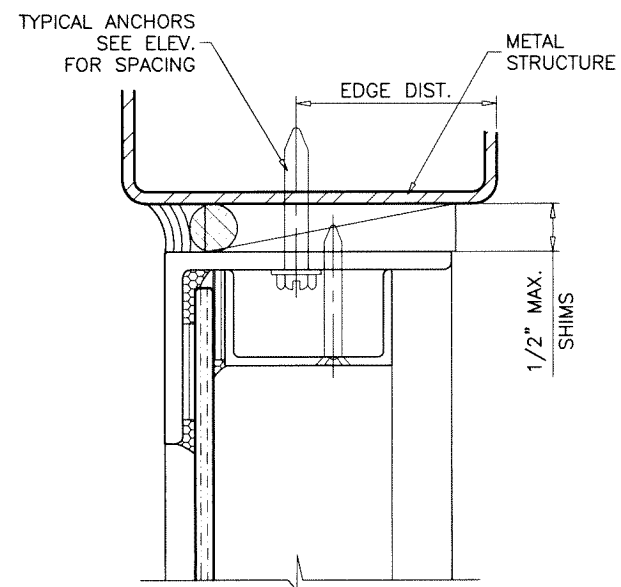
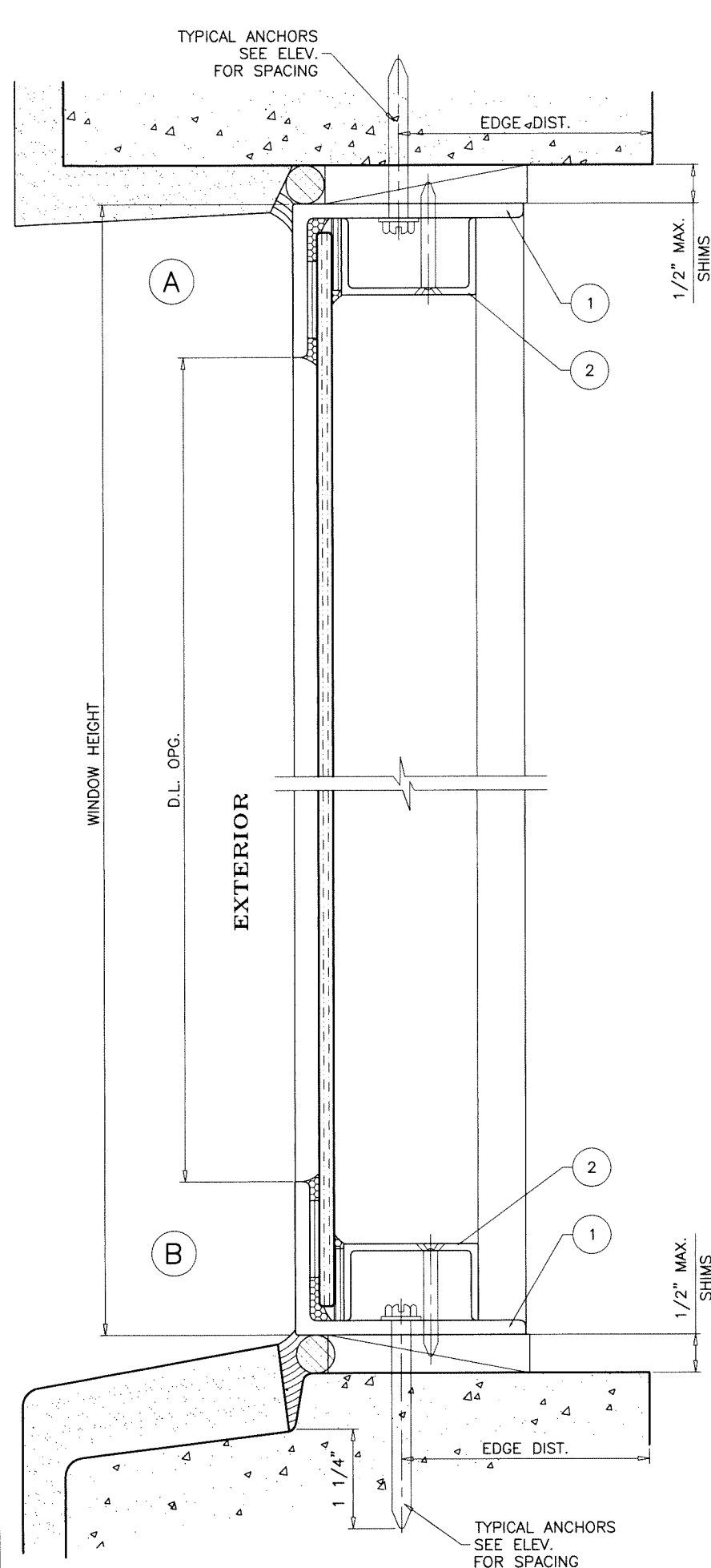
SERIES F-2009 STEEL FRAME FIXED WDW. (N.I.)

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

no	date	by	description
A	08.28.20		UPDATED TO 2020 FBC
B	07.21.23		UPDATED TO 2023 FBC
C	09.01.26		UPDATED TO 2026 FBC

date: 02-27-20
scale: 1/2"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
20-25F
sheet 1 of 4



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)

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. ($F_y = 36$ KSI MIN.)

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

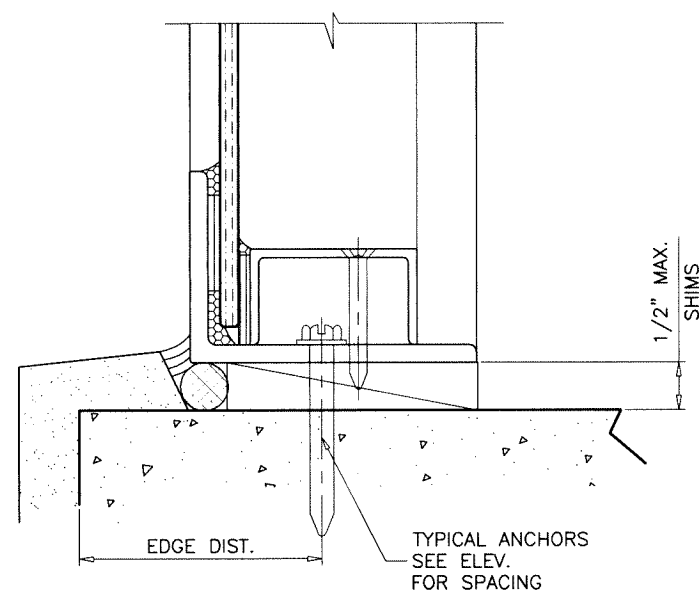
TYPICAL EDGE DISTANCE

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

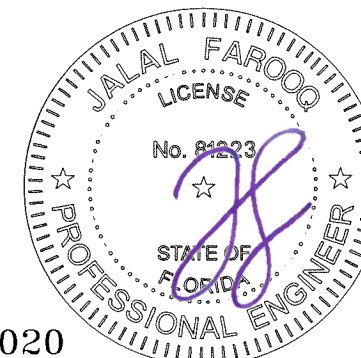
INTO METAL STRUCTURE = 3/4" MIN.

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

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



Sealed: 9/1/2026



FL #32020

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

SERIES F-2009 STEEL FRAME FIXED WDW. (N.I.)

SUNSHINE WINDOWS MANUFACTURING, INC.

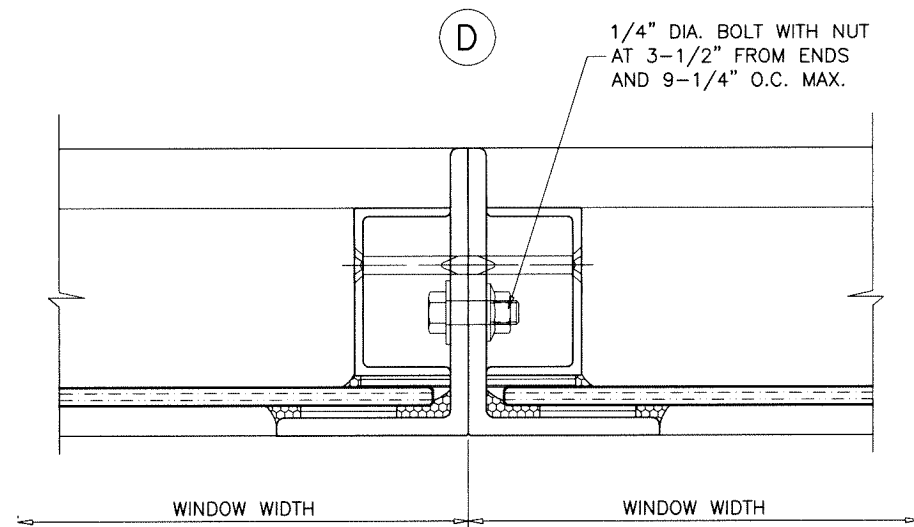
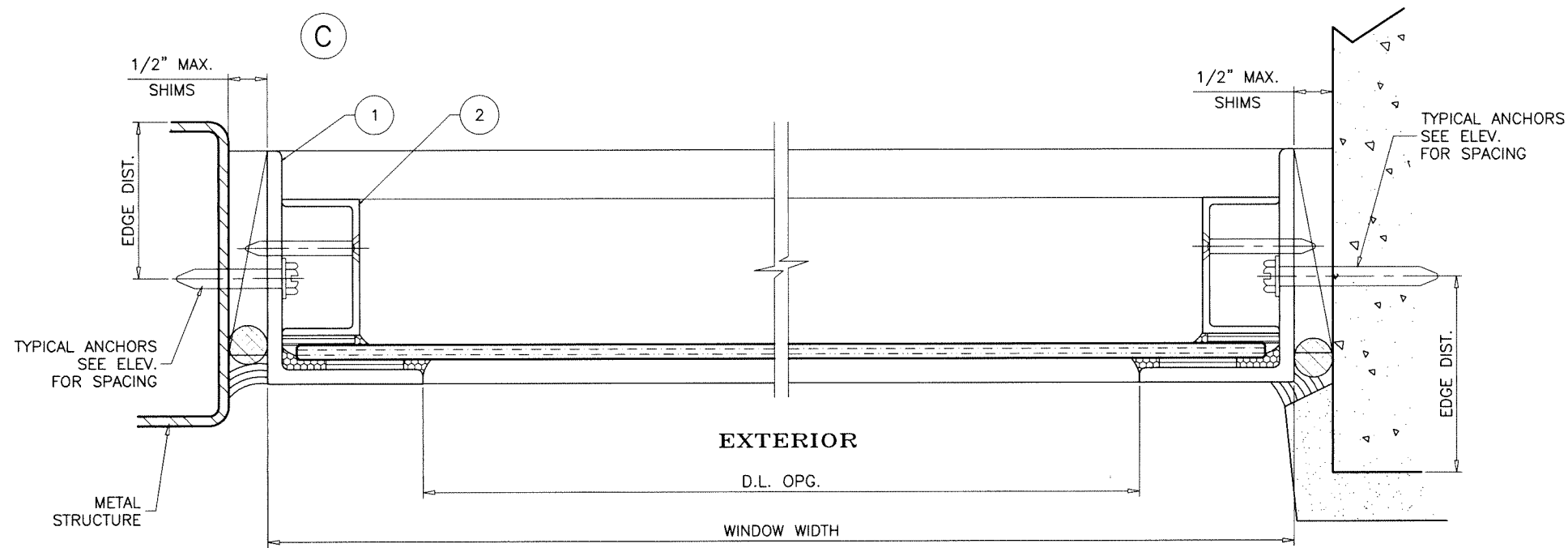
SUNSHINE WINDOWS MO
1785 West 33rd Place
Hialeah, FL. 33012

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

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dr. by: TARIQ			
chk. by:			

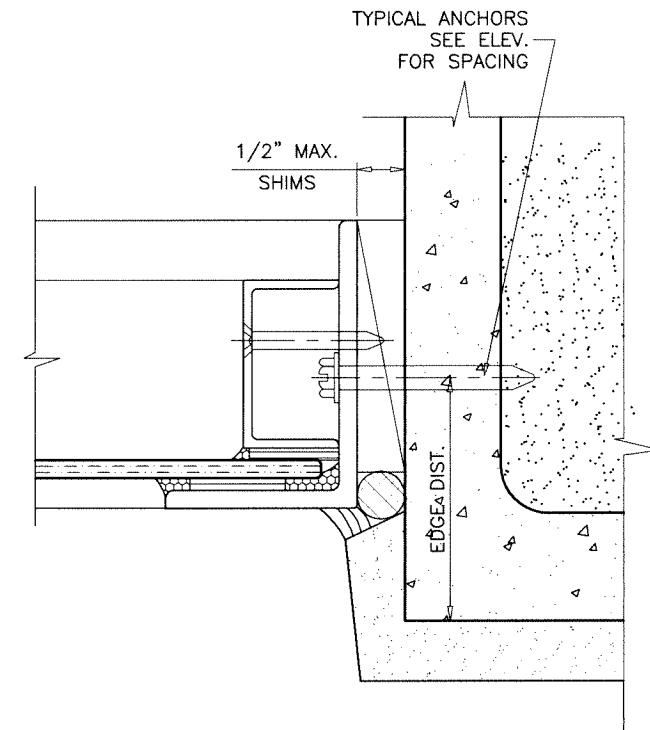
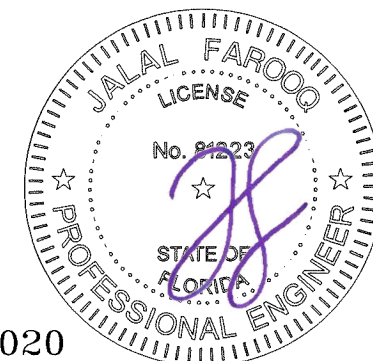
drawing no. 20-25F

sheet 2 of 4



Sealed: 9/1/2026

FL #32020



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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

COMP-ANL\20-25F-SWM

SERIES F-2009 STEEL FRAME FIXED WDW. (N.I.)

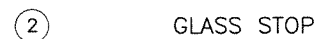
Sunshine Windows Manufacturing, Inc.
1785 West 33rd Place
Hialeah, FL. 33012
Tel. (305) 364-9952 Fax. (305) 828-5118

revisions:

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chk. by:

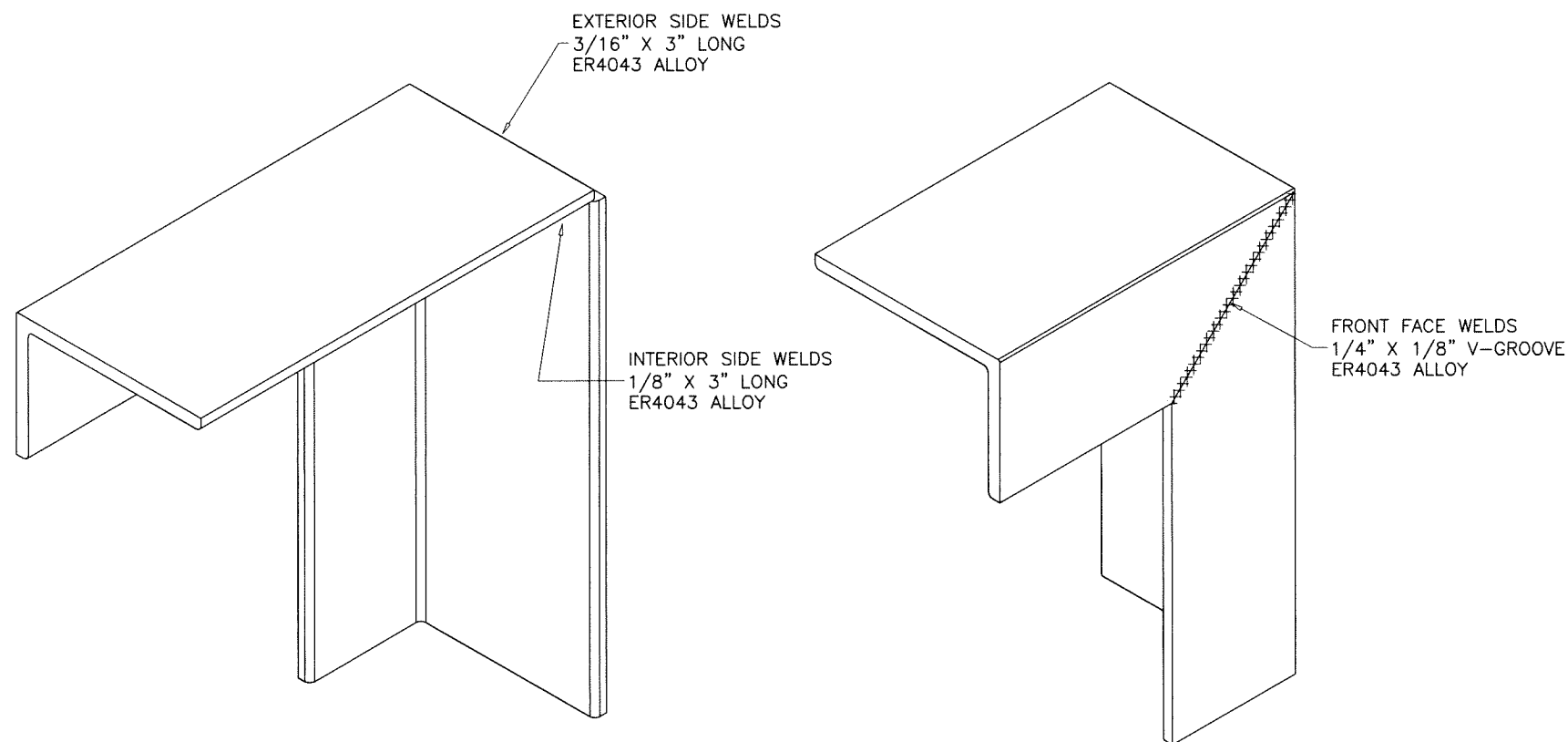
drawing no.
20-25F
sheet 3 of 4



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	—	4	WINDOW FRAME	STEEL	A36, Fu MIN. 58 KSI
2	—	4	GLASS STOP	STEEL	A36, Fu MIN. 58 KSI
3	—	AS REQD.	GLAZING TAPE (1/8" X 1")	FIBERGLASS	—
4	#12 X 1-1/2"	AS REQD.	GLASS STOP FASTENERS, AT 5-1/2" FROM ENDS & 11-1/4" O.C.	ST. STEEL	FH SMS

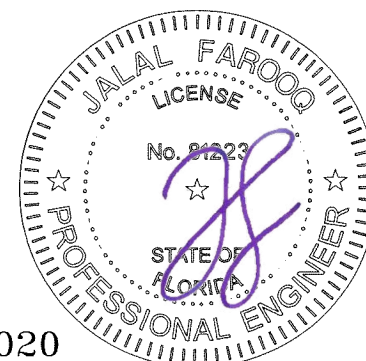
SEALANT:

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



WINDOW CORNER

Sealed: 9/1/2026



FL #32020

a f c

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9360 SUNSET DRIVE, SUITE 220
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COMP—ANL \ 20—25F—SWM

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20-25F

sheet 4 of 4