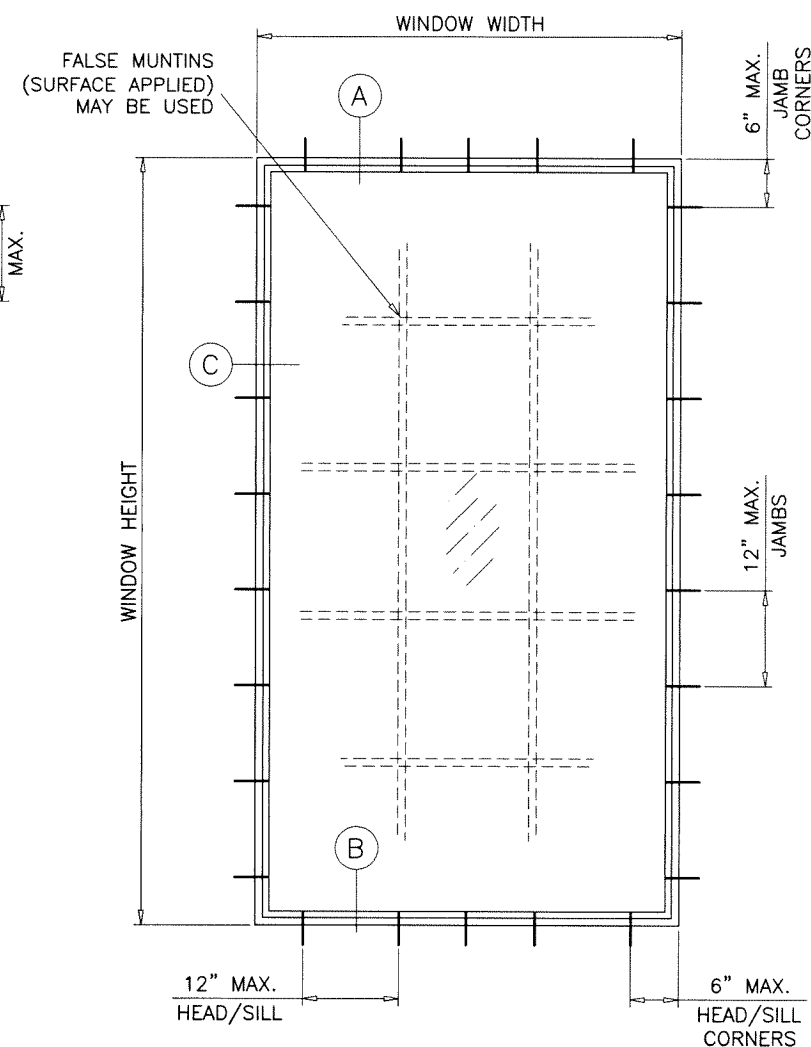


6" MAX. ANCHOR SPACING AT CURVED FRAMES  
12" MAX. ANCHOR SPACING AT STRAIGHT FRAMES



TYPICAL ELEVATION

### Coastline Direct Glaze Narrow Frame IZ4 (1" IG)

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF FIXED/FIXED OR FIXED WITH OTHER F.B.C. APPR'D WINDOWS USING F.B.C. APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/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 2020/2023 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.

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.

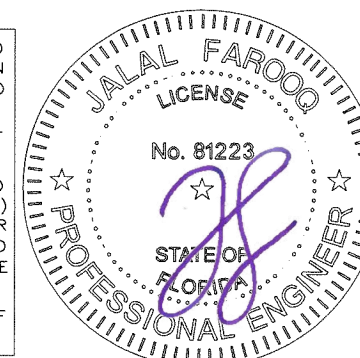
WINDOWS WITH GLASS TYPE 'DS' COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

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

Sealed: 7/26/2023

FL #34706

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 LETTER 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-ANL\W16-90SIW

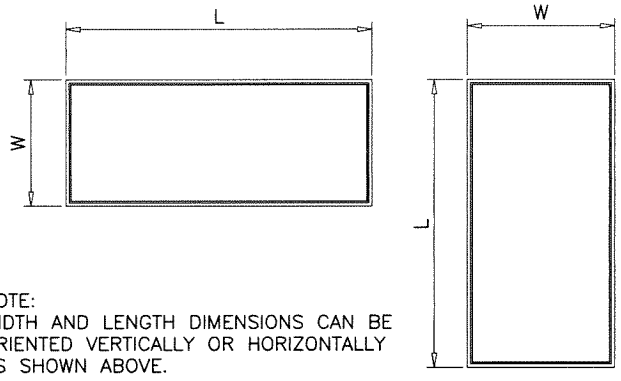
Coastline Direct Glaze Narrow Frame IZ4 (1" IG)  
**MARVIN**  
PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
Tel. (218) 386-1430 Ext. 2143

no	date	description	by
A	11.01.17	UPDATED TO 2017 FBC	
B	12.18.18	COMPANY NAME REV.	
C	08.27.20	UPDATED TO 2020 FBC	
D	07.25.23	UPDATED TO 2023 FBC	

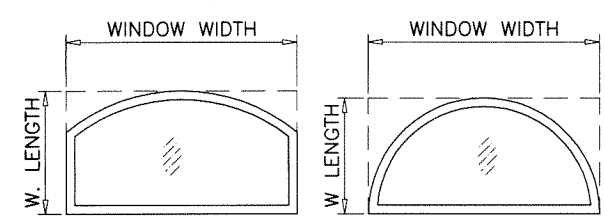
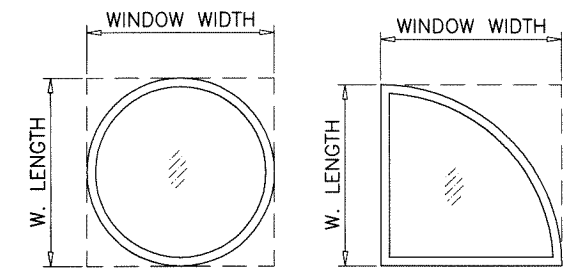
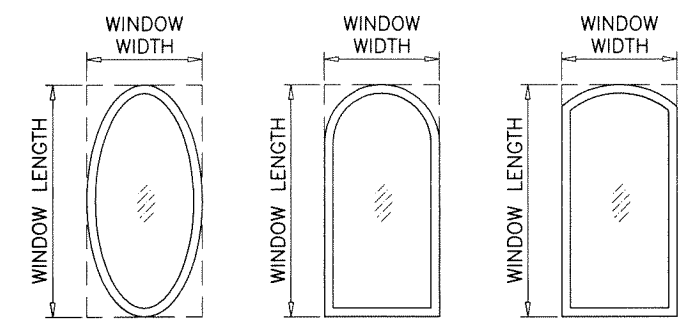
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dr. by: TARIQ  
chk. by:

drawing no. **W16-90**  
sheet 1 of 5

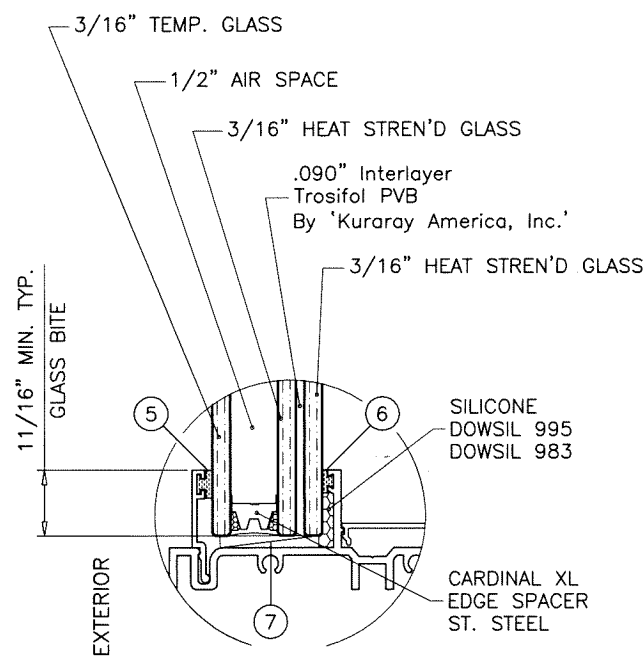
DESIGN LOAD CAPACITY - PSF							
WINDOW DIMS.		GLASS TYPE 'DB'		GLASS TYPE 'DS'			
				DOWSIL 995		DOWSIL 983	
WIDTH	LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
42"	78"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		70.0	70.0	90.0	130.0	90.0	130.0
60"		64.6	64.6	90.0	130.0	90.0	130.0
62-3/8"		62.1	62.1	90.0	130.0	90.0	130.0
66"		58.7	58.7	85.1	122.9	85.1	122.9
72"		53.8	53.8	78.0	112.6	78.0	112.6
78"		-	-	72.0	104.0	72.0	104.0
42"	84"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		70.0	70.0	90.0	130.0	90.0	130.0
60"		64.6	64.6	90.0	130.0	90.0	129.5
62-3/8"		62.1	62.1	90.0	130.0	90.0	127.4
66"		58.7	58.7	85.1	122.9	85.1	122.9
72"		-	-	78.0	112.6	78.0	112.6
78"		-	-	72.0	104.0	72.0	104.0
42"	90"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		70.0	70.0	90.0	130.0	90.0	130.0
60"		64.6	64.6	90.0	130.0	90.0	124.9
62-3/8"		62.1	62.1	90.0	130.0	90.0	122.6
66"		-	-	85.1	122.9	85.1	119.5
72"		-	-	78.0	112.6	78.0	112.6
78"		-	-	72.0	104.0	72.0	104.0
42"	96"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		70.0	70.0	90.0	130.0	90.0	128.7
60"		-	-	90.0	130.0	90.0	121.1
62-3/8"		-	-	90.0	130.0	90.0	118.6
66"		-	-	85.1	122.9	85.1	115.3
72"		-	-	78.0	112.6	78.0	112.6
78"		-	-	72.0	104.0	72.0	104.0
42"	102-3/8"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		70.0	70.0	90.0	130.0	90.0	125.6
60"		-	-	90.0	130.0	90.0	117.8
62-3/8"		-	-	90.0	130.0	90.0	115.2
72"		-	-	78.0	112.6	78.0	112.6
78"		-	-	72.0	104.0	72.0	104.0
84"		-	-	72.0	104.0	72.0	104.0
42"	108"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	123.3
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	114"	70.0	70.0	90.0	130.0	90.0	130.0
48"		70.0	70.0	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	121.2
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	120"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	126"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	128.6
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	132"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	127.2
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	138"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	144"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0
42"	150"	70.0	70.0	90.0	130.0	90.0	130.0
48"		-	-	90.0	130.0	90.0	130.0
54"		-	-	90.0	130.0	90.0	130.0
60"		-	-	90.0	130.0	90.0	130.0
62-3/8"		-	-	90.0	130.0	90.0	130.0
66"		-	-	90.0	130.0	90.0	130.0
72"		-	-	90.0	130.0	90.0	130.0
78"		-	-	90.0	130.0	90.0	130.0



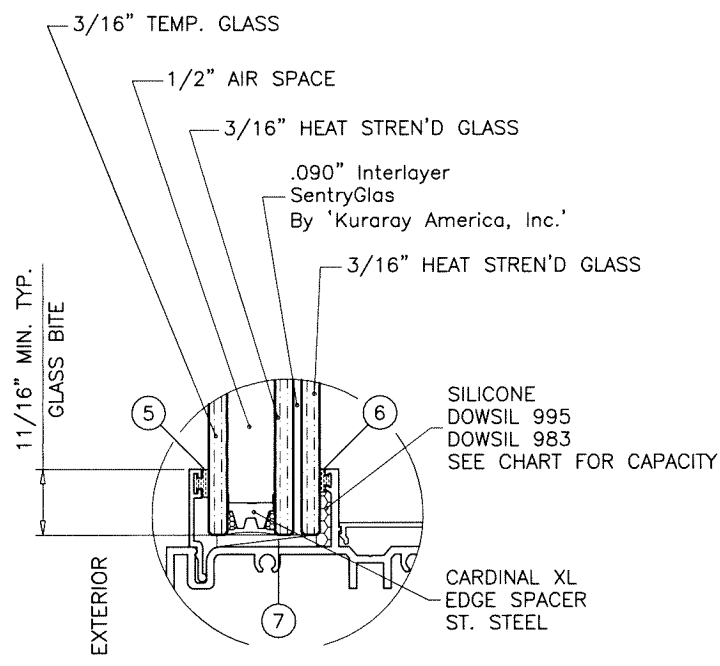
NOTE:  
WIDTH AND LENGTH DIMENSIONS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY AS SHOWN ABOVE.



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.



**GLASS TYPE 'DB'**  
1" OVERALL INSUL. LAM. GLASS

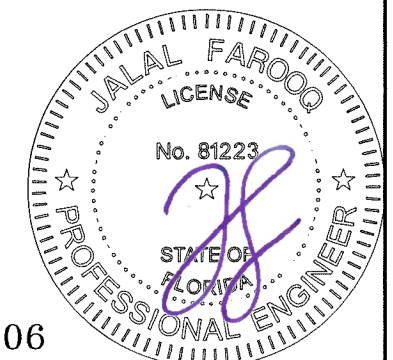


**GLASS TYPE 'DS'**  
1" OVERALL INSUL. LAM. GLASS

**GLAZING OPTIONS**

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-09 (3 SEC. GUSTS).

Sealed: 7/26/2023



**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) 264-8100  
COMP-ANL W16-90SIW

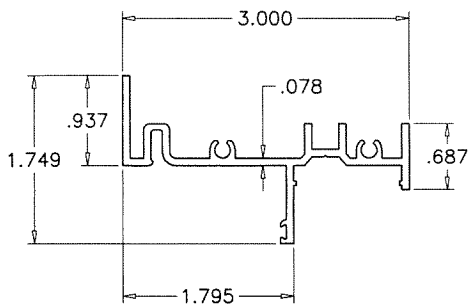
Coastline Direct Glaze Narrow Frame IZ4 (1" IG)  
**MARVIN**  
PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
Tel. (218) 386-1430 Ext. 2143

revisions:	no	date	by	description
date:	12-29-16	scale:	1/2" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	W16-90			
sheet	2 of 5			

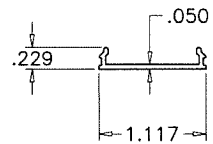
FL #34706



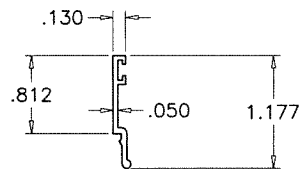




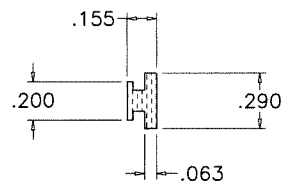
① FRAME



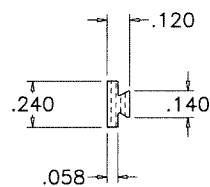
② FRAME COVER (OPTIONAL)



③ GLAZING BEAD



⑤ EXTERIOR GLAZING SPACER  
SCALE 1:1

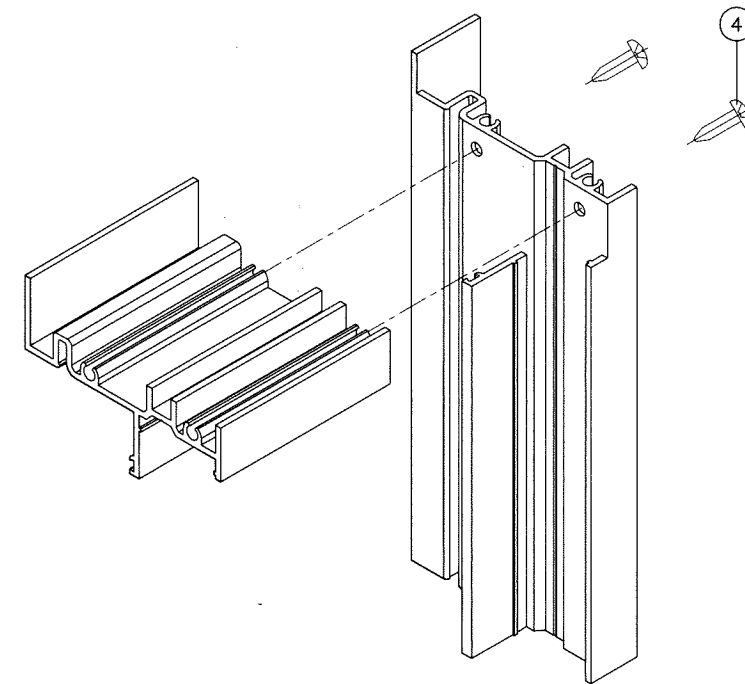


⑥ INTERIOR GLAZING SPACER  
SCALE 1:1

ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW305	4	WINDOW FRAME	6063-T6	-
2	SIW303	4	FRAME COVER (OPTIONAL)	6063-T6	-
3	SIW143	4	GLAZING BEAD	6063-T6	-
4	#10 X 1-1/2"	2/ CORNER	ASSEMBLY SCREWS	CRS	PH SMS
5	5531	AS REQD.	EXTERIOR GLAZING SPACER, DUROMETER 70±5 SHORE A	SANTOPRENE	CENTRAL PLASTICS
6	5530	AS REQD.	INTERIOR GLAZING SPACER, DUROMETER 70±5 SHORE A	TPE	ULTRAFAB
7	-	2/ LITE	SETTING BLOCK, AT 1/4 POINTS, DUROMETER 85±5 SHORE A	EPDM	-

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH CRL SMALL JOINT SEALER.



TYP. CORNER DETAIL

Sealed: 7/26/2023

FL #34706



Coastline Direct Glaze Narrow Frame IZ4 (1" IG)



PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
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W16-90

sheet 5 of 5

**af c**  
**AL-FAROOQ CORPORATION**  
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