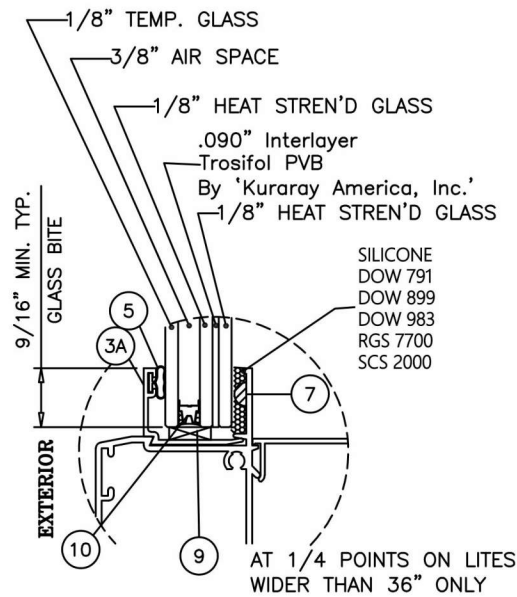
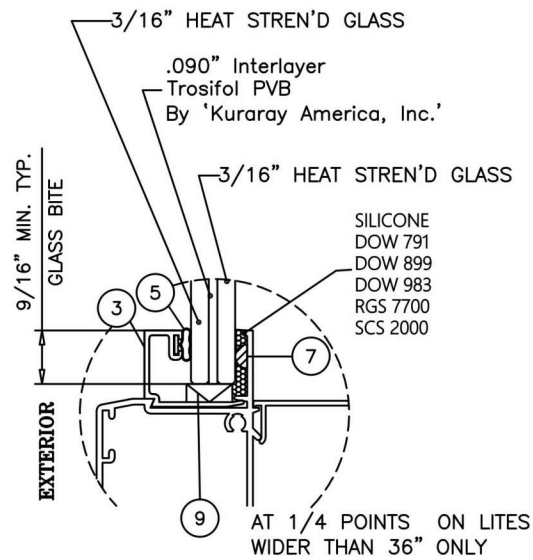




GLASS TYPE 'A'
13/16" OVERALL INSUL. LAM. GLASS

GLAZING OPTIONS



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

**ECO-GUARD SERIES-550
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 FIXED/FIXED OR FIXED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING F.B.C. HVHZ 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 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.

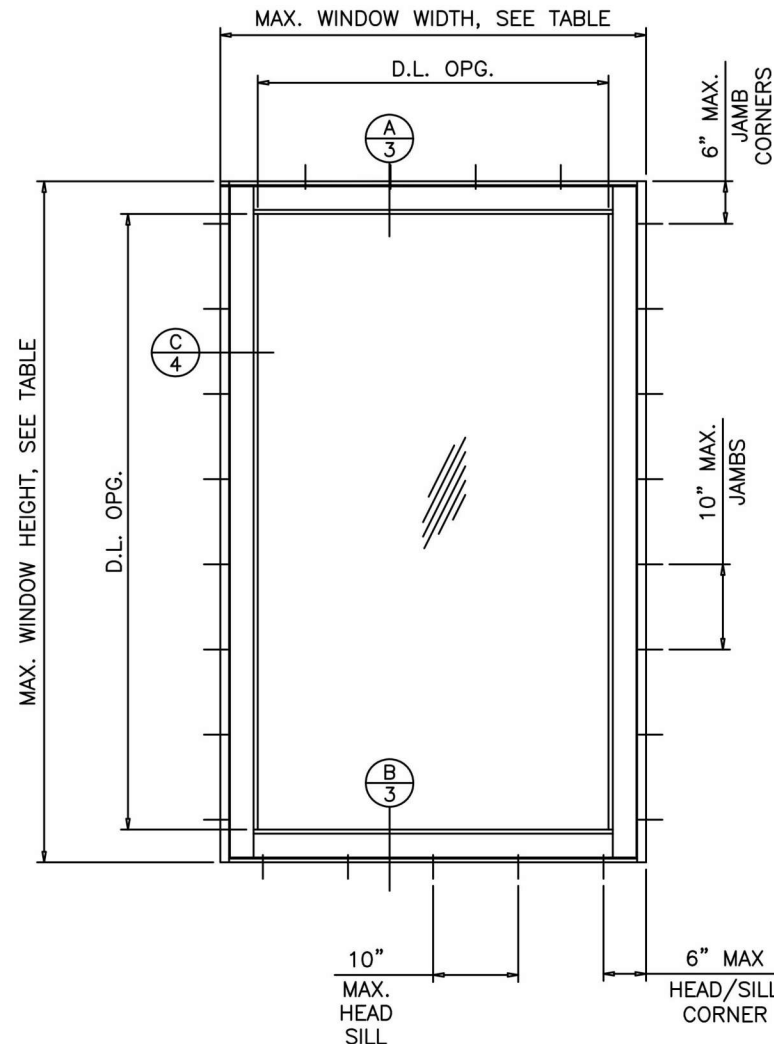
A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

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 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 LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



TYPICAL ELEVATION

GLASS D.L.O. DIMS'
D.L.O. HEIGHT = WINDOW HEIGHT - 7.625"
D.L.O. WIDTH = WINDOW WIDTH - 7.625"

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. F.B.C. HVHZ APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

ALL TEMPERED AND/OR LAMINATED GLASS OPTIONS IN THIS APPROVAL HAVE BEEN CERTIFIED BY THE SGCC FOR COMPLIANCE TO ANSI Z97.1, CLASS A AND CPSC 16 CFR 1201, CATEGORY II. THIS INCLUDES LAMINATED GLASS THAT IS MANUFACTURED WITH ANNEALED GLASS PLIES. FOR APPLICATIONS WHERE THE WINDOW IS BEING USED AS A GUARD, HEAT STRENGTHENED OR TEMPERED LAMINATED GLASS MUST BE USED.



JAVAD AHMAD PE, inc
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FL 33126
Ph: (305) 424-8001
support@ja-pe.com

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MA	BS
drawn by:	check by:
JA-1844-24	12/30/2024
drawing no.	date:
REVISION	
No.	DATE
DESCRIPTION	

SERIES 550: ALUMINUM FIXED WINDOW (S.M.I.)
SMALL MISSILE IMPACT RATED

ECO window systems
ECO WINDOW SYSTEMS, LLC.
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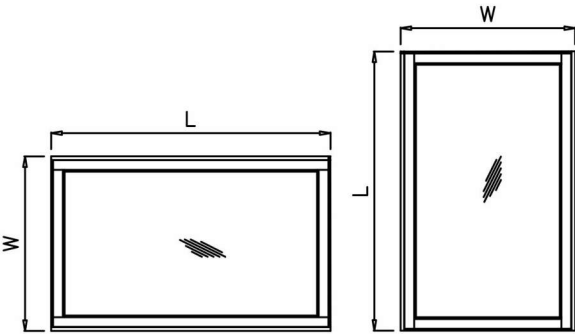


SEALED: 12/30/2024

FL#32389.8

Design Load Capacity - PSF																													
Window Width (W)	Glass Type	Window Length (L)																											
		38-3/8"		42"		48"		50-5/8"		54"		60"		63"		66"		72"		74-1/4"		78"		84"		90"		96"	
19-1/8"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
	B	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
24"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
	B	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
26-1/2"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
30"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
32"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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36"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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37"	A	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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42"	A	+86.8	-120.0	+79.3	-114.5	+79.3	-114.5	+79.3	-114.5	+79.3	-114.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0	+90.0	-120.0
48"	A	+86.8	-120.0	+79.3	-114.5	+69.4	-100.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	+78.8	-105.0	-	-	-	-
53-1/8"	A	+86.8	-120.0	+79.3	-114.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+74.7	-99.6	+71.2	-94.9	+71.2	-94.9	+71.2	-94.9	+71.2	-94.9	+71.2	-94.9	+71.2	-94.9	-	-	-	-	-	-	-	-
54"	A	+79.3	-114.5	+79.3	-114.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+74.7	-99.6	+70.0	-93.3	+70.0	-93.3	+70.0	-93.3	+70.0	-93.3	+70.0	-93.3	-	-	-	-	-	-	-	-	-	-
60"	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+74.7	-99.6	+70.0	-93.3	+63.3	-84.0	+63.3	-84.0	+63.3	-84.0	-	-	-	-	-	-	-	-	-	-	-	-
63"	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+74.7	-99.6	+70.0	-93.3	+63.3	-84.0	+60.0	-80.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
66"	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B	+90.0	-120.0	+90.0	-120.0	+78.8	-105.0	+70.0	-93.3	+70.0	-93.3	+63.3	-84.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR LENGTH DIMENSION SHOWN ON THE TABLE.



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

NOTE:
WITH AND LENGTH DIMENSIONS CAN BE ORIENTED
VERTICALLY OR HORIZONTALLY AS SHOW ABOVE.



JAVAD AHMAD PE, inc
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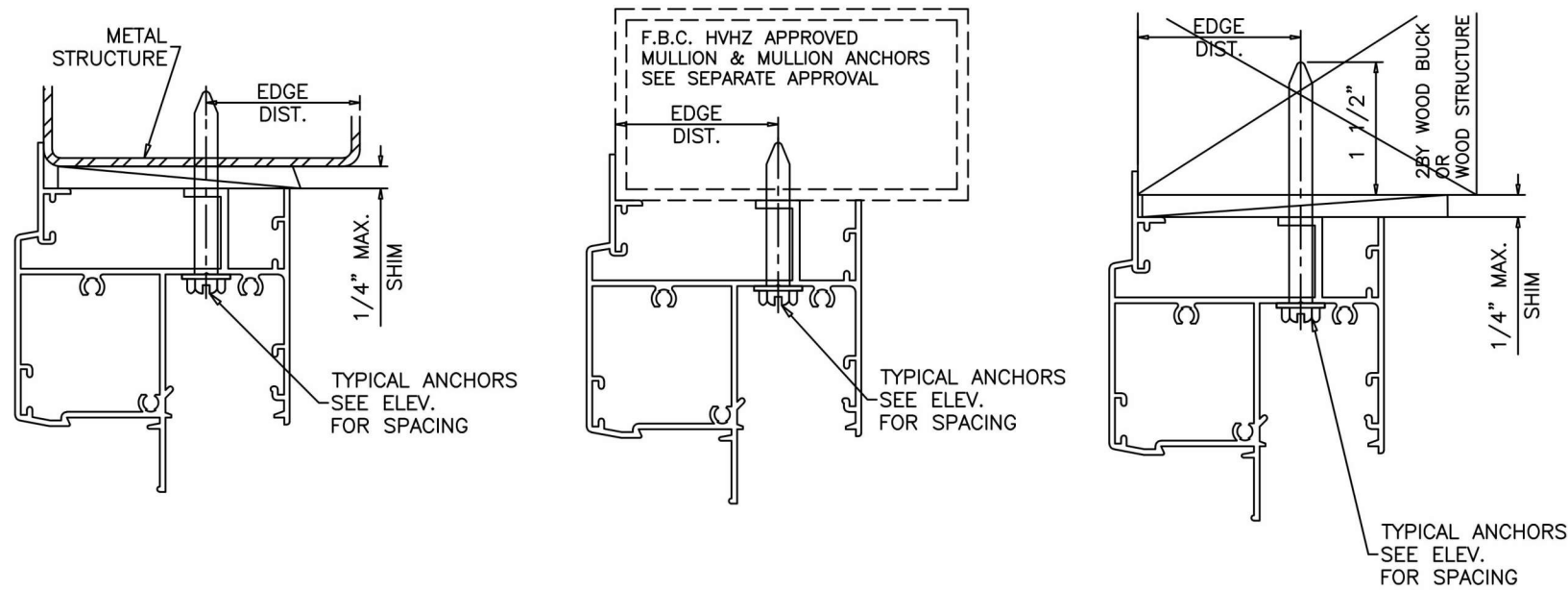
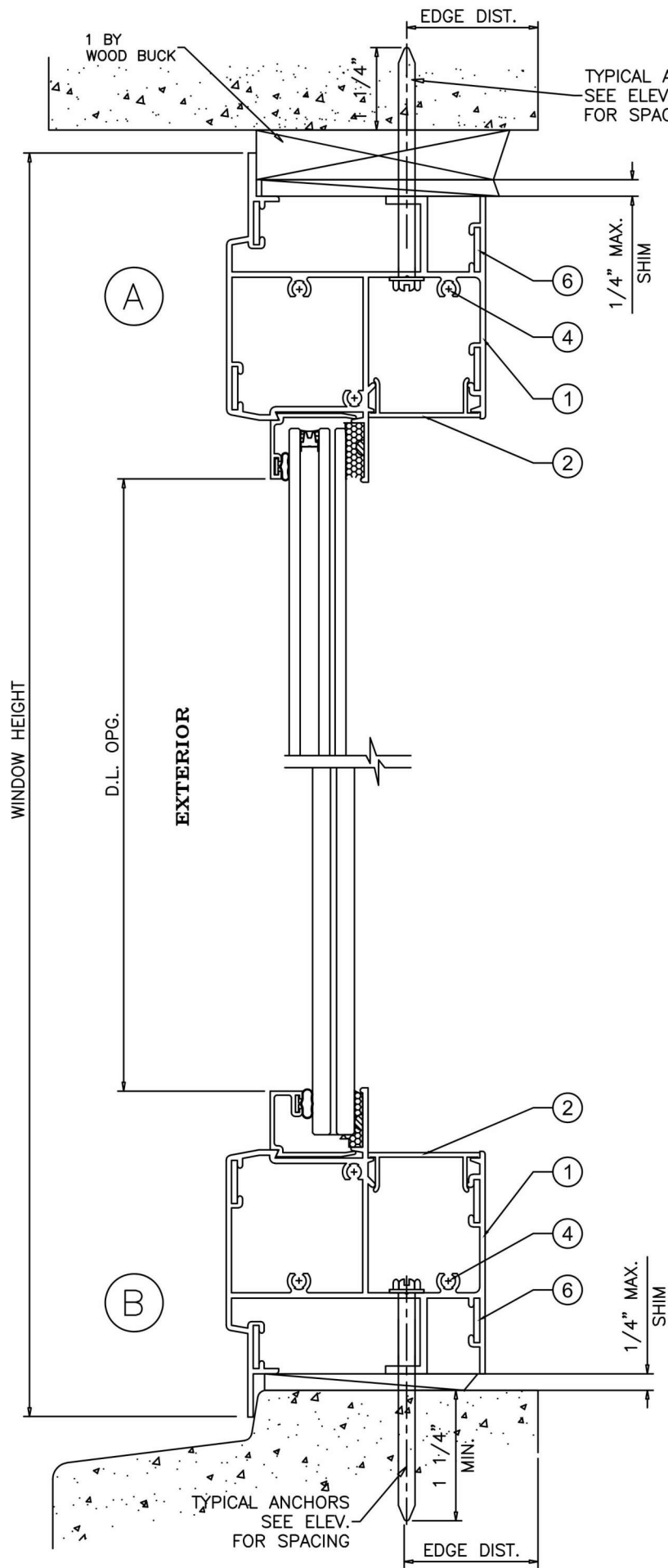
drawing no.	JA-1844-24	drawn by:	MA
date:	12/30/2024	check by:	BS
REVISION			
No.	DATE	BY	DESCRIPTION

SERIES 550: ALUMINUM FIXED WINDOW
(S.M.I)
SMALL MISSILE IMPACT RATED

ECO window systems
ECO WINDOW SYSTEMS, LLC.
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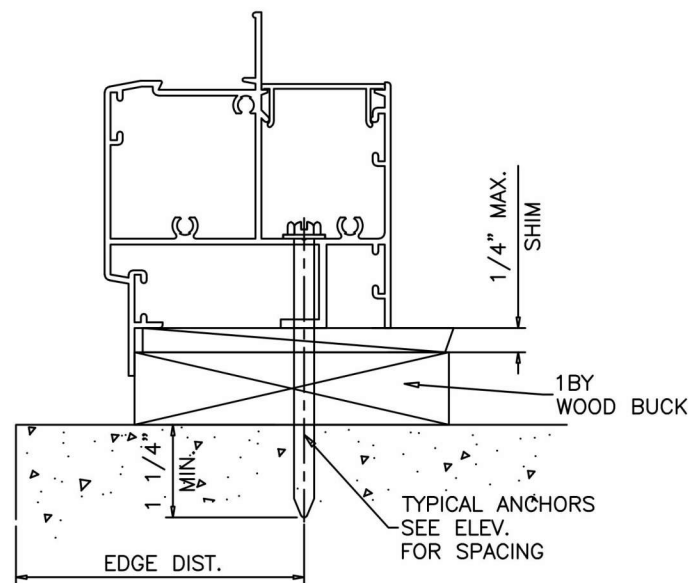
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
1/4" DeWalt UltraCon +	All	Southern Pine (SG = 0.55)	1"	1-1/2"
	All	Thru 1BY Buck into Concrete (min. 3 ksi)	2-1/2"	1-1/4"
	Jambs	Thru 1BY Buck into Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
	All	Concrete (min. 3ksi)	2-1/2"	1-1/4"
	Jambs	Hollow or Filled Block (ASTM C90, min. 2 ksi)	2-1/2"	1-1/4"
#14 SMS or Self Drilling Screws (Gr. 2)	All	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness
#12 SMS or Self Drilling Screws (Gr. 2)	All	F.B.C Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi)	3/4"	(3) Threads min. beyond metal thickness

- STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED
- ALL ANCHOR HEAD TYPES ARE ACCEPTABLE



WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

FL#32389.8



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FL 33126
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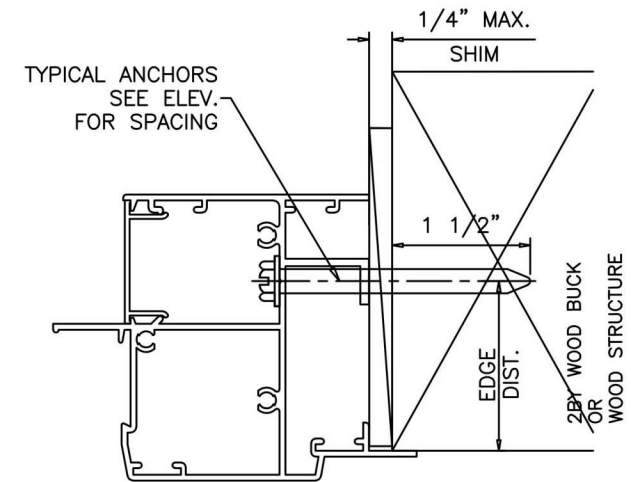
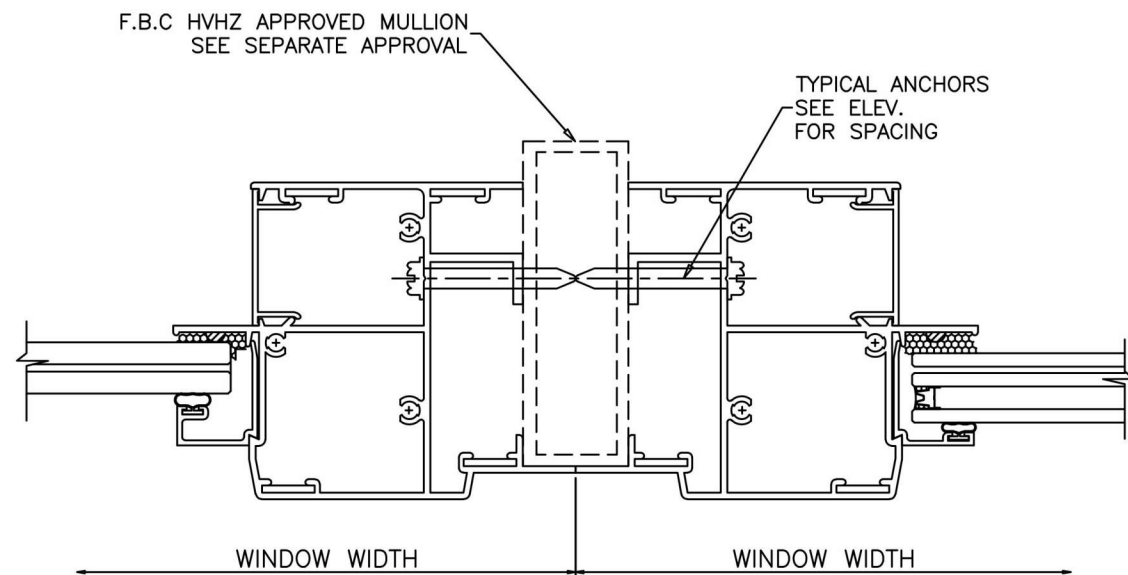
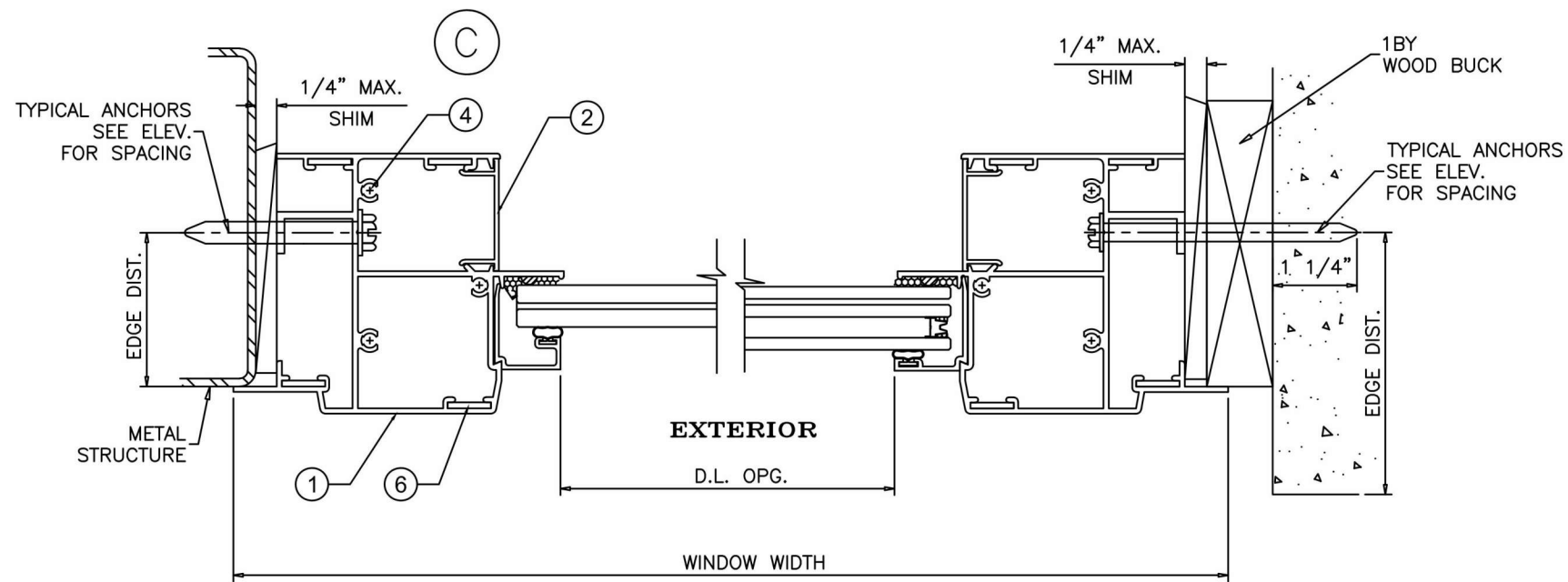
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drawing no. JA-1844-24	check by:
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SMALL MISSILE IMPACT RATED

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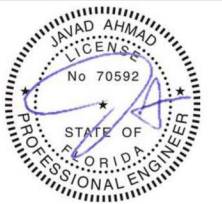
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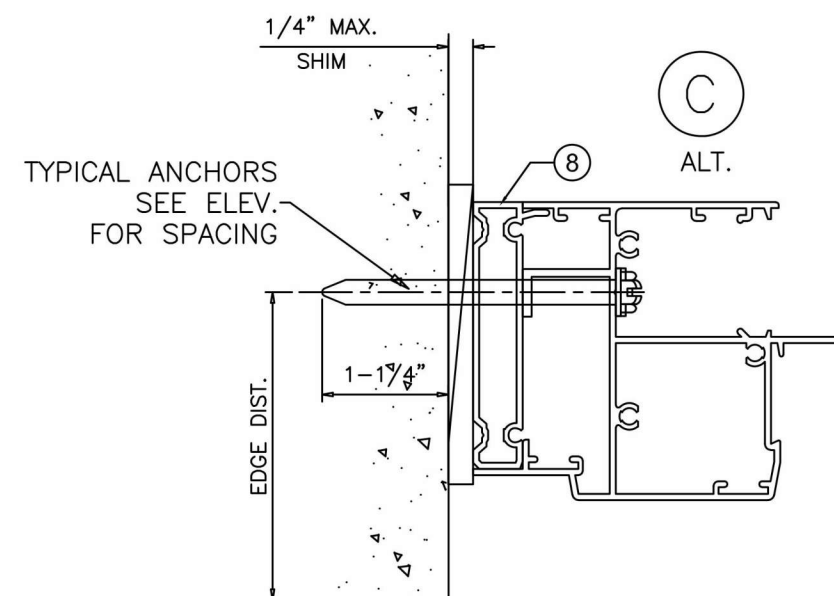
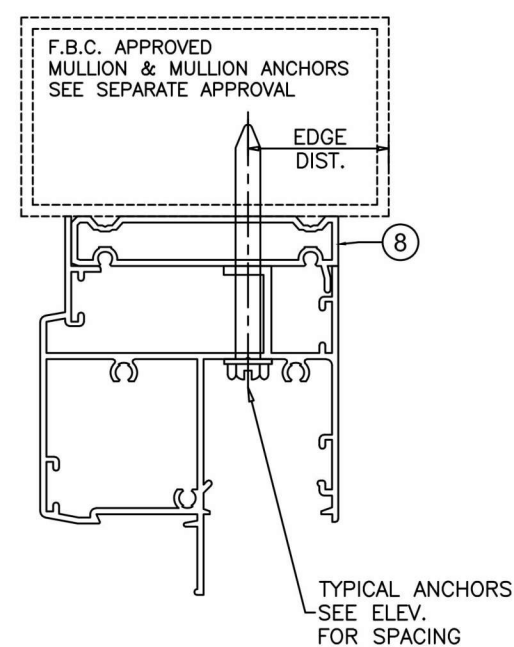
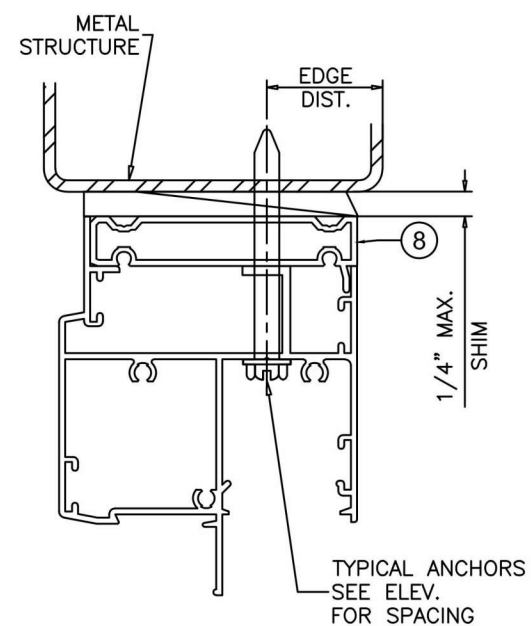
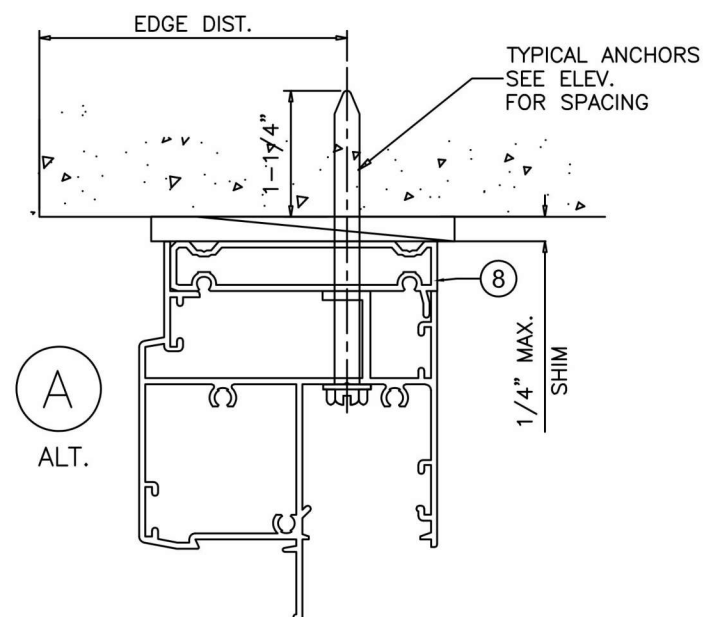
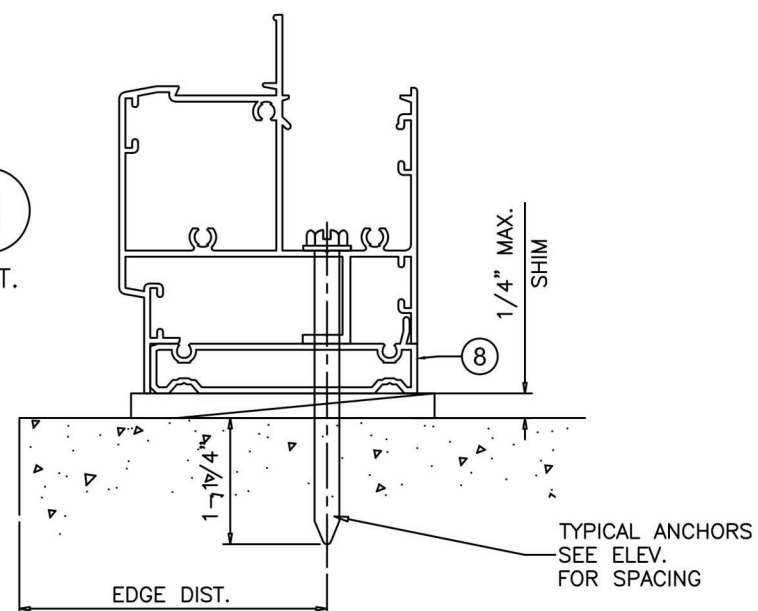
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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER



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FL 33126

Ph: (305) 424-8001

support@ja-pe.com

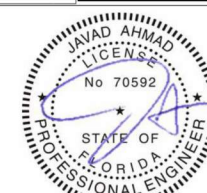
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SERIES 550: ALUMINUM FIXED WINDOW
(S.M.I.)



WINDOW SYSTEMS
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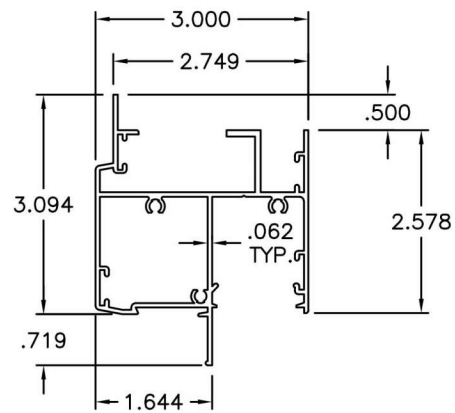


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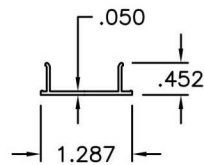
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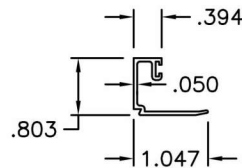
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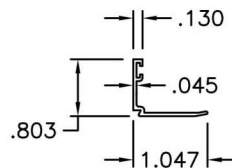
① FRAME HEAD/SILL/JAMB



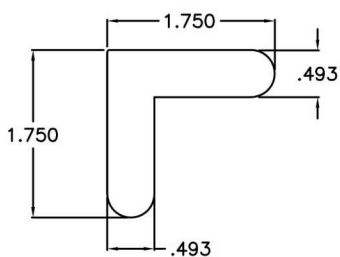
② SNAP COVER



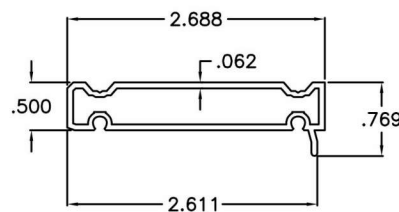
③ GLAZING BEAD (7/16" LAM GLASS)



③A GLAZING BEAD (INSUL. LAM. GLASS)



⑥ CORNER KEY

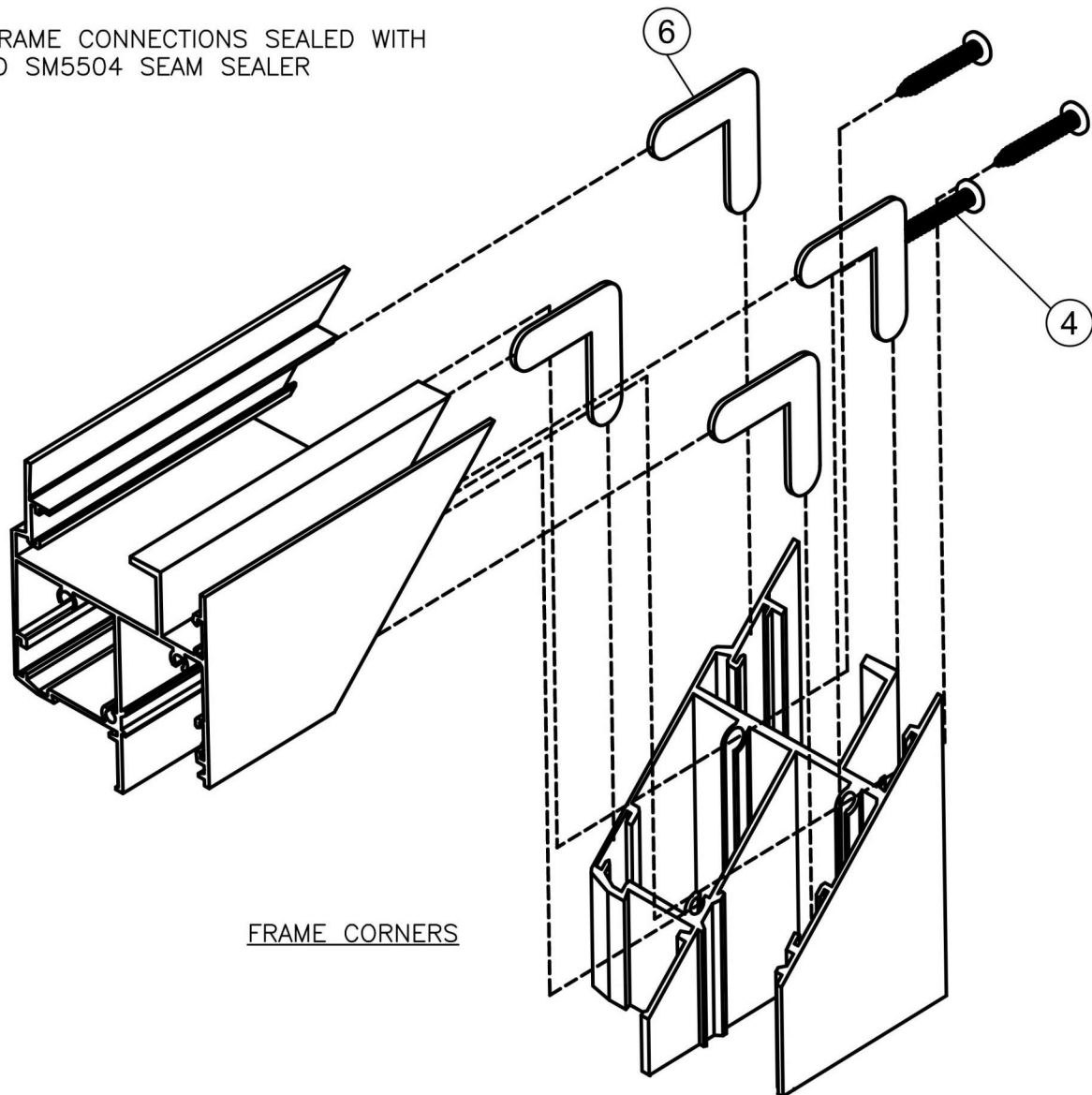


⑧ FLUSH FRAME ADAPTER

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E503	4	FRAME HEAD/SILL/JAMB	6063 - T6	-
2	E504	4	SNAP COVER	6063 - T6	-
3	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063 - T6	-
3A	E505	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063 - T6	-
4	#10 X 1-1/4"	3/ CORNER	ASSEMBLY SCREWS	-	-
5	E203	AS REQD.	GLAZING BEAD BULB. DUROMETER 65	SANTOPRENE	ULTRAFAB
6	PSJ40-SS	2/ CORNER	FRAME CORNER KEY	ST. STEEL	-
7	FLB-50	-	GLASS SPACER - 1/8" HIGH	SILICONE	FRANK LOWE
8	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
9	-	AS REQD.	SETTING BLOCK, 3/16" X 3/4" X 4" LONG	EPDM	DUROMETER 80±5 SHORE A
10	-	-	INSUL. GLASS SPACER	VARIOUS	VARIOUS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE-MOREHEAD SM5504 SEAM SEALER



FRAME CORNERS

FL#32389.8



JAVAD AHMAD PE, inc

7875 NW 12th St., Suite 102 Doral,
FL 33126

Ph: (305) 424-8001

support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

drawing no.	MA	drawn by:	BS
JA-1844-24			
date:	REVISION	DESCRIPTION	
12/30/2024	BY		
	DATE		
	No.		

SERIES 550: ALUMINUM FIXED WINDOW
(S.M.I.)

SMALL MISSILE IMPACT RATED



ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST. MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



SEALED: 12/30/2024