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Product Approval
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FL #	FL41650-R2								
Application Type	Revision								
Code Version	2023								
Application Status	Approved								
Comments									
Archived	☐								
Product Manufacturer	Eco Window Systems								
Address/Phone/Email	8502 NW 80th Street Suite 103 Medley, FL 33166 (305) 885-5299 carlos.martinez@ecowindowsystems.com								
Authorized Signature	Carlos Martinez carlos.martinez@ecowindowsystems.com								
Technical Representative	Carlos Martinez								
Address/Phone/Email	8502 NW 80th Street #103 Medley, FL 33166 (786) 307-2474 carlos.martinez@ecowindowsystems.com								
Quality Assurance Representative									
Address/Phone/Email									
Category	Windows								
Subcategory	Casement								
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received								
Florida Engineer or Architect Name who developed the Evaluation Report	Javad Ahmad								
Florida License	PE-70592								
Quality Assurance Entity	Keystone Certifications, Inc.								
Quality Assurance Contract Expiration Date	12/31/2032								
Validated By	Ammad Riaz, P.E. ☒ Validation Checklist - Hardcopy Received								
Certificate of Independence	FL41650 R2 COI Certificate of Independence JA-PE.pdf								
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>								
TAS 201	1994								
TAS 202	1994								
TAS 203	1994								
Equivalence of Product Standards Certified By									
Sections from the Code									

Product Approval Method

Method 1 Option D

Date Submitted

12/13/2024

Date Validated

01/06/2025

Date Pending FBC Approval

01/07/2025

Date Approved

02/11/2025

Summary of Products

FL #	Model, Number or Name	Description
41650.1	Eco-Guard Series 500	Large Missile Impact resistant, Aluminum Casement Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL41650_R2_II_ECO-GUARD_500_CASEMENT_WINDOW-LMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL41650_R2_AE_ECO_500-Casement_Window-LMI-PA_EVR.pdf Created by Independent Third Party: Yes
41650.2	Eco-Guard Series 500	Small Missile Impact resistant, Aluminum Casement Window
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL41650_R2_II_ECO-GUARD_500_CASEMENT_WINDOW-SMI-JA-1844-24-SS1.pdf Verified By: Javad Ahmad PE-70592 Created by Independent Third Party: Yes Evaluation Reports FL41650_R2_AE_ECO_500-Casement_Window-SMI-PA_EVR.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:

ECO-GUARD SERIES-500
ALUMINUM OUTSWING CASEMENT WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF CASMT/CASMT OR CASEMENT 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.

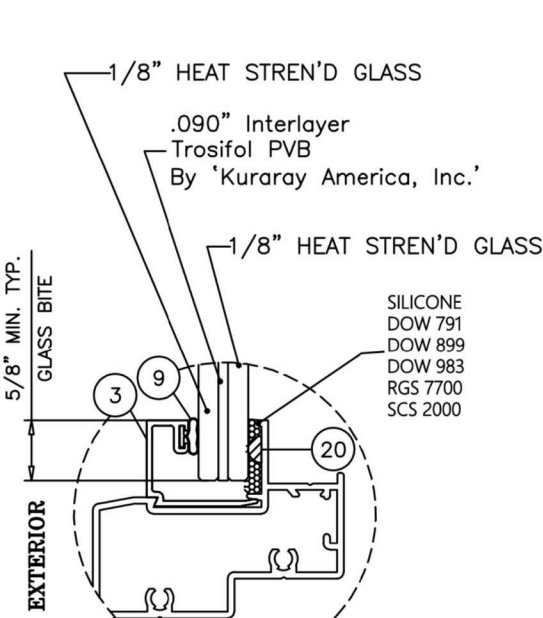
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

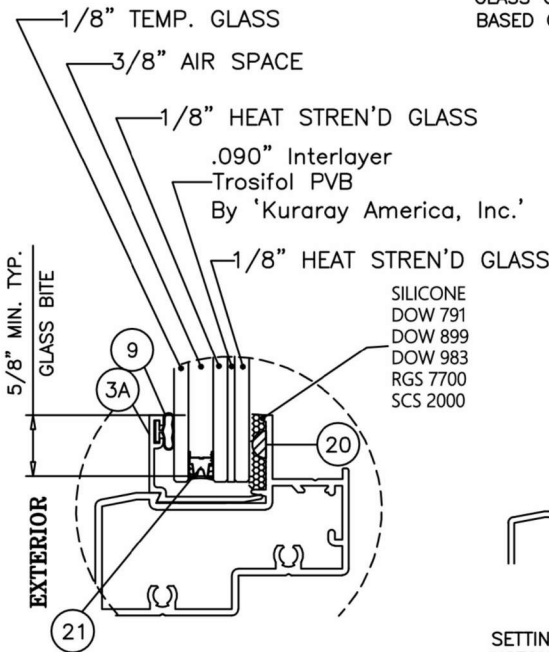
THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

MAXIMUM DESIGN LOAD RATING = + 70.0 PSF
(FOR SIZES SHOWN OR SMALLER) - 75.0 PSF

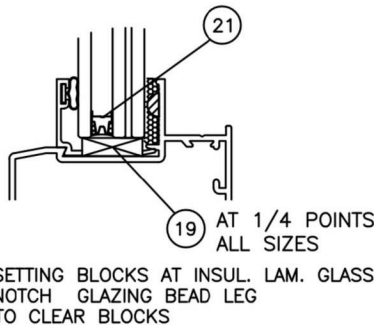
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS)



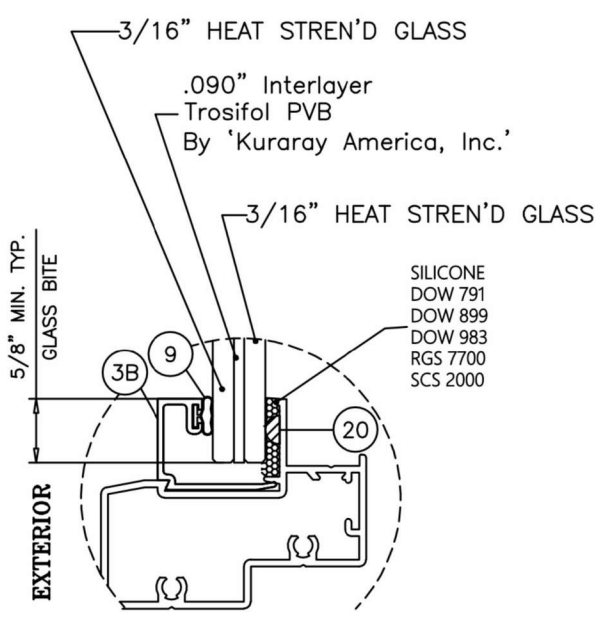
GLASS TYPE 'A'



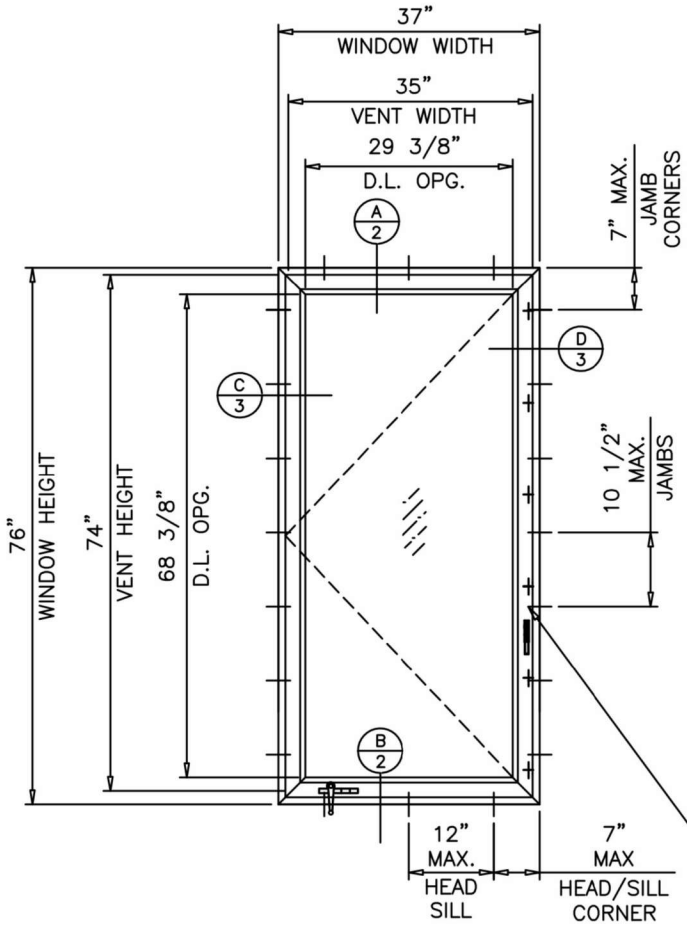
GLASS TYPE 'AA'



GLAZING OPTIONS



GLASS TYPE 'B'



TYPICAL ELEVATION

6 POINT LOCK

LOCKING POINTS
SEE CHART

WDW. HEIGHT UP TO	NO. OF KEEPERS AT SASH
26"	2
38-3/8"	3
50-5/8"	4
63"	5
76"	6



JAVAD AHMAD PE, inc
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support@ja-pe.com

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drawing no.	JA-1844-24	drawn by:	MA
date:	12/31/2024	check by:	BS
REVISION			
No.	DATE	BY	DESCRIPTION

SERIES 500 : ECO-GUARD ALUMINUM CASEMENT WINDOW
(L.M.I.)
LARGE MISSILE IMPACT RATED

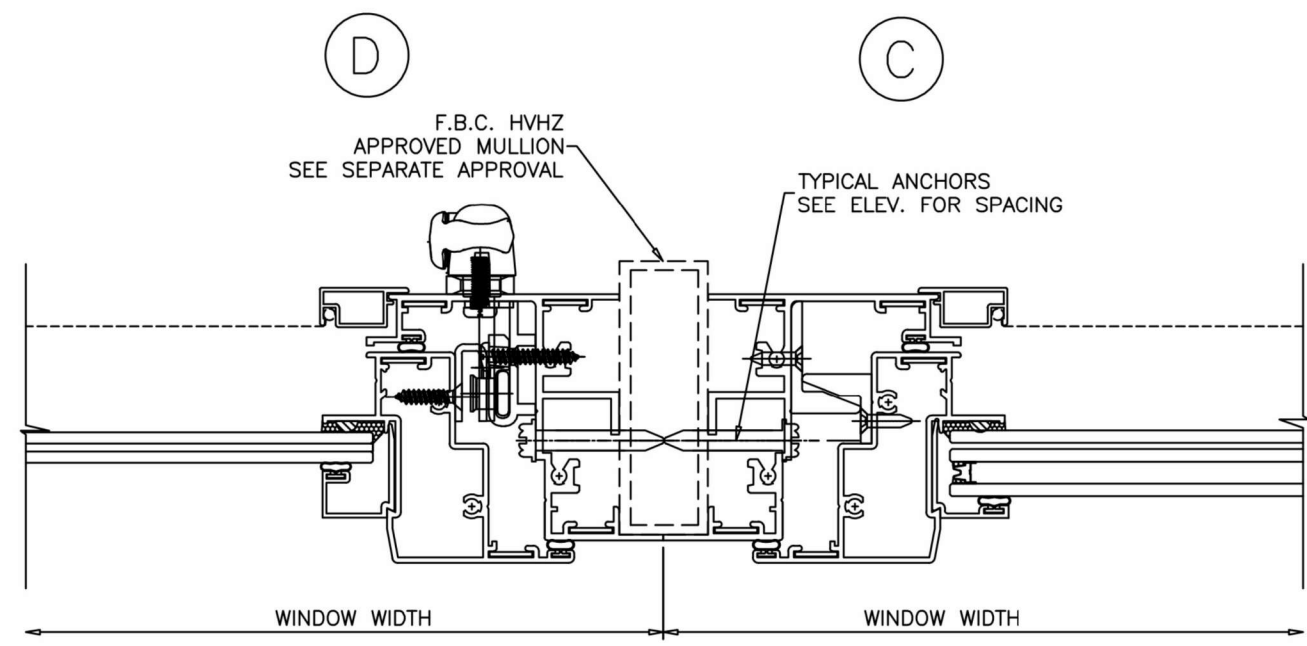
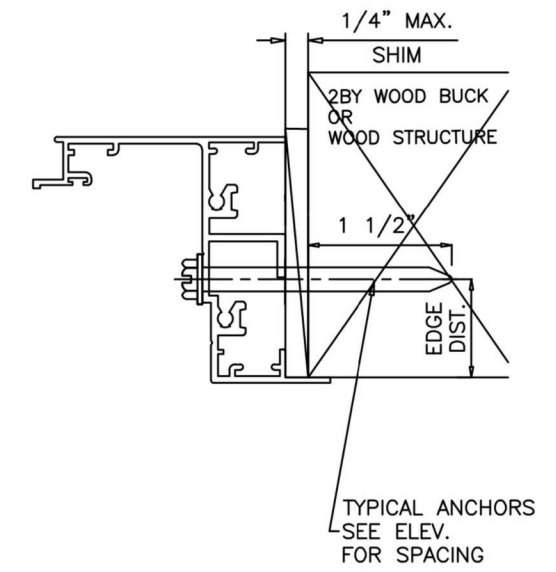
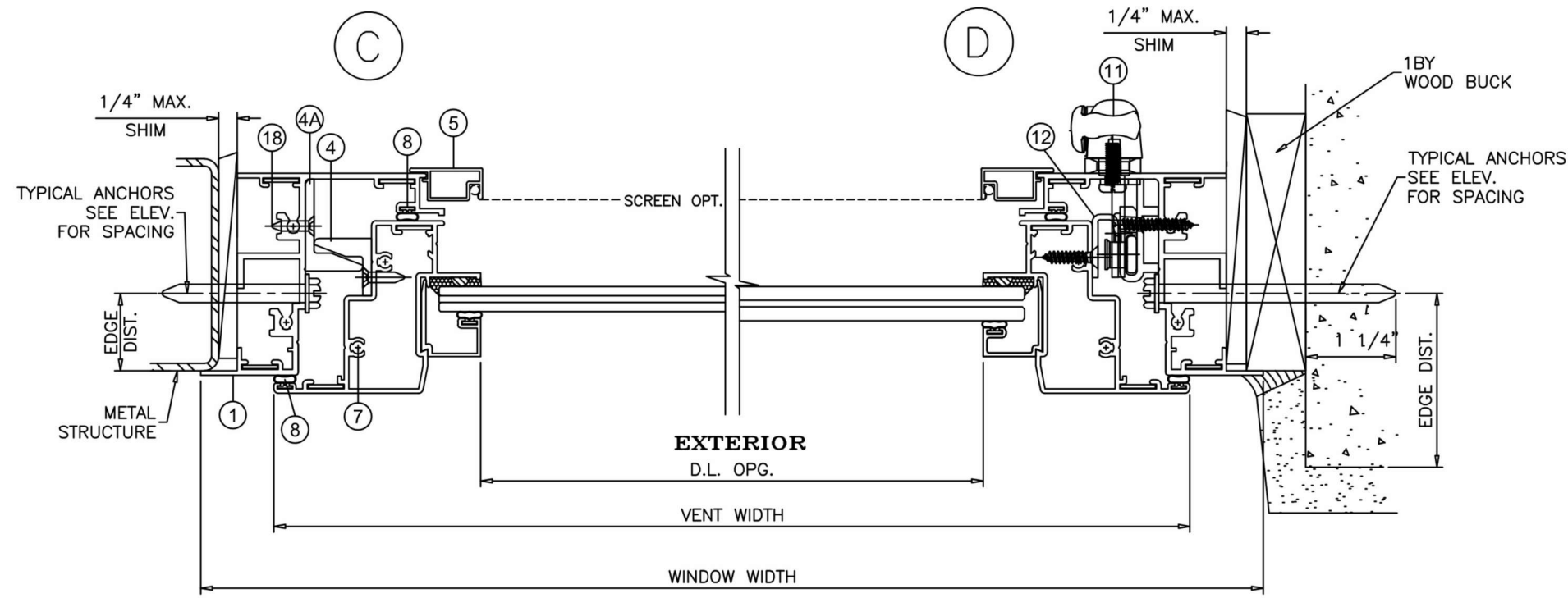


ECO WINDOW SYSTEMS, LLC.
8502 N.W. 80th ST., MEDLEY, FL 33166
TEL. (305) 885-5299 FAX. (305) 885-5902



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FL#41650.1



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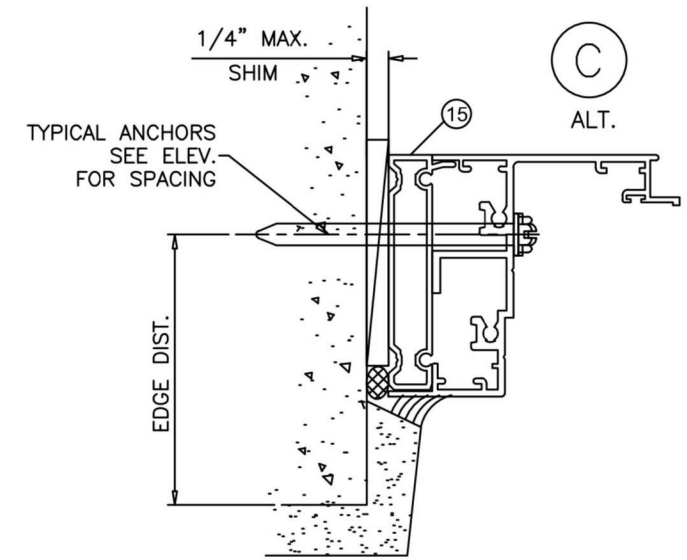
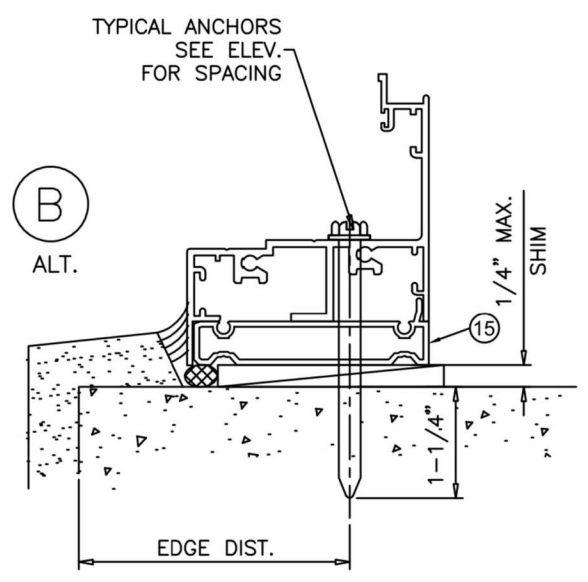
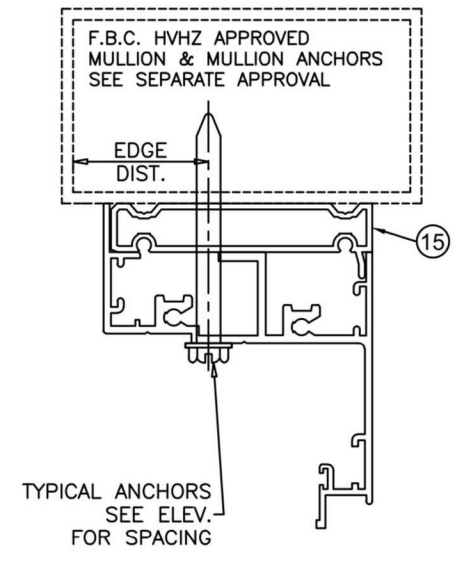
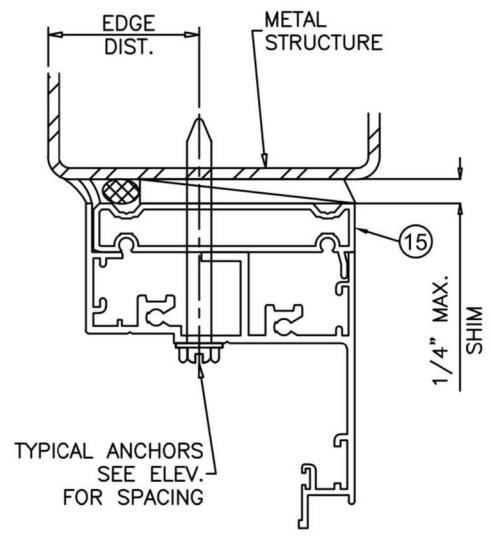
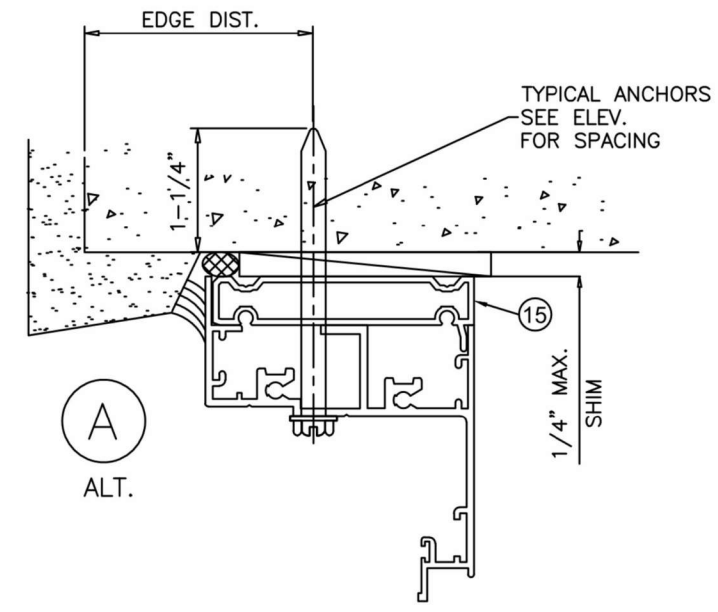
SERIES 500 : ECO-GUARD ALUMINUM CASEMENT WINDOW (L.M.I.)
 LARGE MISSILE IMPACT RATED

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INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

FL#41650.1



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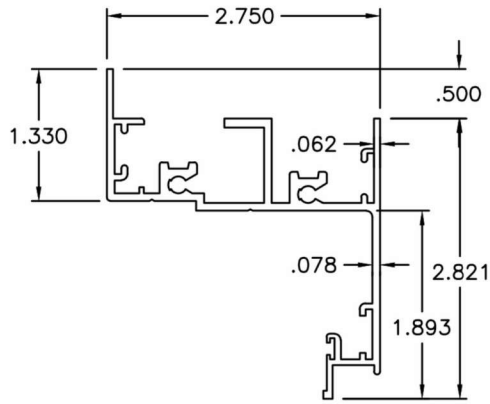
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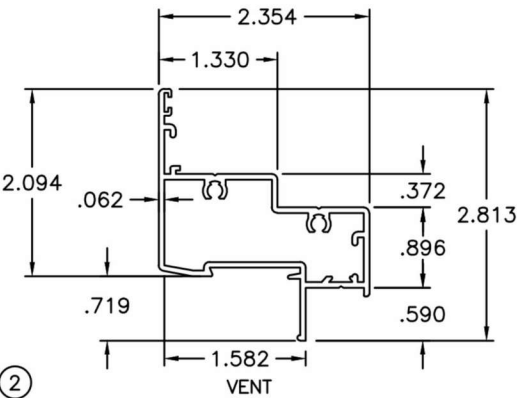
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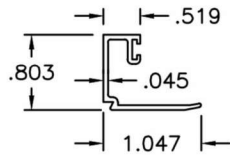
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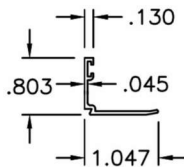
① FRAME HEAD/SILL/JAMB



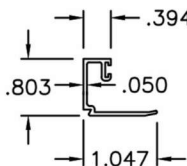
② VENT



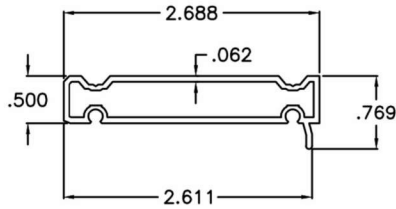
③ GLAZING BEAD (5/16" LAM. GLASS)



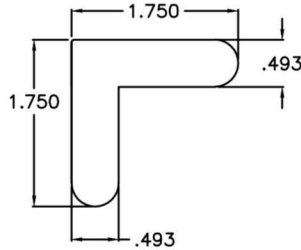
③A GLAZING BEAD (INSUL. LAM. GLASS)



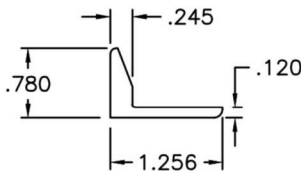
③B GLAZING BEAD (7/16" LAM. GLASS)



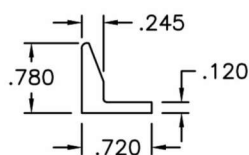
⑮ FLUSH FRAME ADAPTER



⑭ CORNER KEY



④A SNUBBER - FRAME



④ SNUBBER - VENT

ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E501	4	FRAME HEAD/SILL/JAMB	6063 - T6	-
2	E502	4	VENT	6063 - T6	-
3	FY108	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063 - T6	-
3A	E505	AS REQD.	GLAZING BEAD (INSUL. LAM. GLASS)	6063 - T6	-
3B	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063 - T6	-
4	E508	AS REQD.	SNUBBER - VENT, FULL LENGTH	6063 - T6	-
4A	E509	AS REQD.	SNUBBER - FRAME, FULL LENGTH	6063 - T6	-
5	E506	OPTIONAL	SCREEN FRAME	6063 - T5	-
7	#10 X 1-1/4"	AS REQD.	FRAME AND VENT ASSEMBLY SCREWS	-	H WH SMS
8	E203	AS REQD.	BULB WEATHERSTRIPPING, DUROMETER 65	SANTOPRENE	ULTRAFAB
9	E203	AS REQD.	GLAZING BEAD BULB, DUROMETER 65	SANTOPRENE	ULTRAFAB
10	35.12.00.400	2/ VENT	4 BAR HINGE, AT TOP AND BOTTOM	ST. STEEL	TRUTH, INSTALLED WITH (4) #10 X 5/8" SDS
11	13096.92	1	MULTI POINT LOCK SYSTEM	ZAMAK	TRUTH
12	-	6/ VENT	KEEPER	STEEL	-
13	-	1/ VENT	ROTO OPERATOR	ZAMAK/STEEL	TRUTH
14	PSJ40-SS	2/ CORNER	FRAME/VENT CORNER KEY	ST. STEEL	-
15	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063 - T6	OPTIONAL
16	-	3	ANTI SAG SKATE	NYLON	M&M PLASTICS
17	#10 X 1-1/4"	2/ SKATE	FH SDS SKATE SCREWS	-	-
18	#8 X 3/4"	AS REQD.	FH SMS SNUBBER SCREWS	-	IN PAIRS 2" APART, PAIRS SPACED AT 7-3/4" O.C.
19	-	2/ LITE	SETTING BLOCK, 3/16" X 3/4" X 4" LONG	EPDM	DUROMETER 80±5 SHORE A
20	FLB-50	-	GLASS SPACER - 1/8" HIGH	SILICONE	FRANK LOWE
21	-	-	INSUL. GLASS SPACER	VARIOUS	VARIOUS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE-MOREHEAD SM5504 SEAM SEALER. PERIMETER CAULKING SICAFLEX 15LM ON EXTERIOR ONLY.

LOCKS:

MULTIPOINT LOCK SYSTEM # 13096.92 BY 'TRUTH' AT FRAME JAMB.
LOCK OPERATOR #24.33.XX.004 AT 8-1/2" FROM SILL
FASTENED TO JAMBS WITH (2) #10 X 5/8" SMS.
LOCK BAR SECURED TO JAMB WITH LOCK GUIDES #33489.00.0001 SPACED AT 12-3/4" O.C. MAX.
EACH GUIDE FASTENED WITH (2) #10 X 1" PH SMS.

STAINLESS STEEL KEEPERS #31964.92 AT VENT
EACH FASTENED WITH (2) #10 X 5/8" FH SMS
SEE CHART ON SHEET 1 FOR QUANTITIES.

HINGES:

4 BAR ST/ST HINGES #35.12.00.400 BY 'TRUTH' LOCATED AT TOP AND BOTTOM CORNERS FASTENED TO FRAME WITH (2) #10 X 5/8" PH SDS
VENT WITH (2) #10 X 5/8" PH SDS

OPERATOR:

SINGLE ARM ROTO OPERATOR #52.13.012 BY 'TRUTH' LOCATED AT SILL END.
FASTENED WITH (6) # 10 X 1" PH SMS.
OPERATOR TRACK #30175 AT BOTTOM RAIL
FASTENED WITH (2) #10 X 1" PH SMS.

ANTI-SAG SKATES:

VINYL ANTI-SAG SKATES BY 'M&M PLASTICS'
(2) AT LOCK STILE AT 6-3/4" FROM TOP/BOTTOM RAILS
(1) AT BOTTOM RAIL AT 4" FROM LOCK STILE
EACH FASTENED WITH (2) #10 X 1-1/4" FH SDS.



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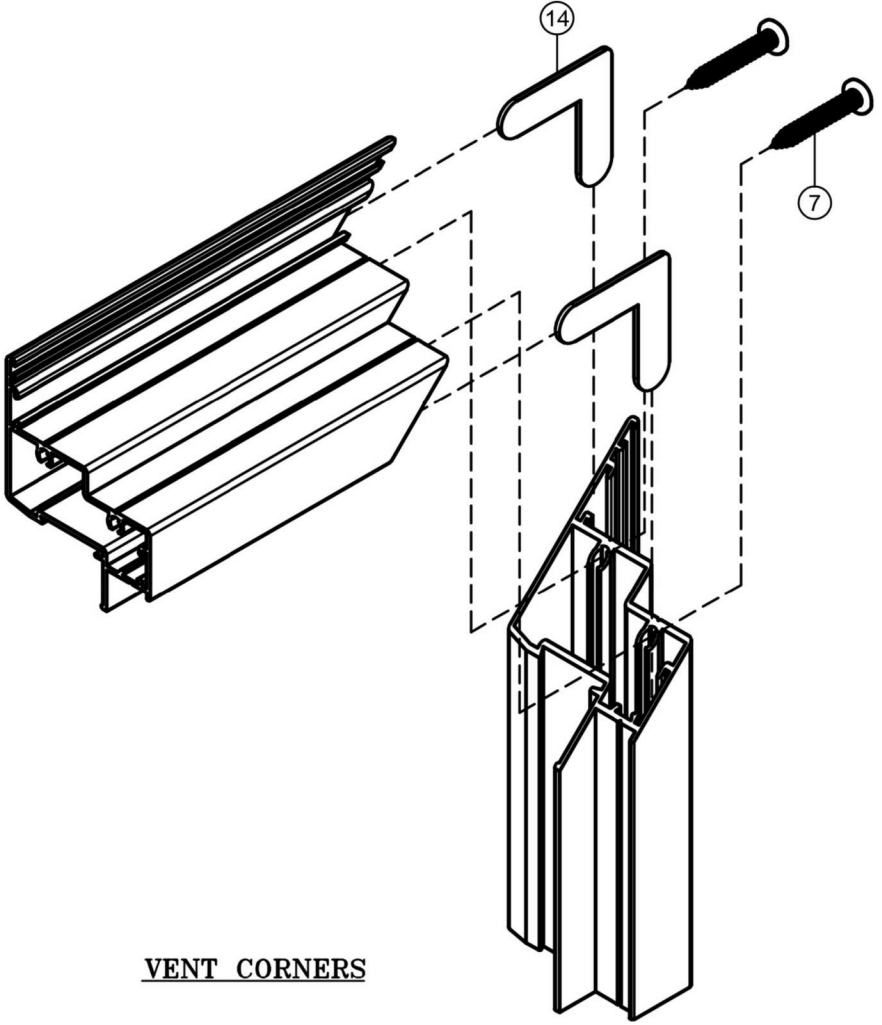


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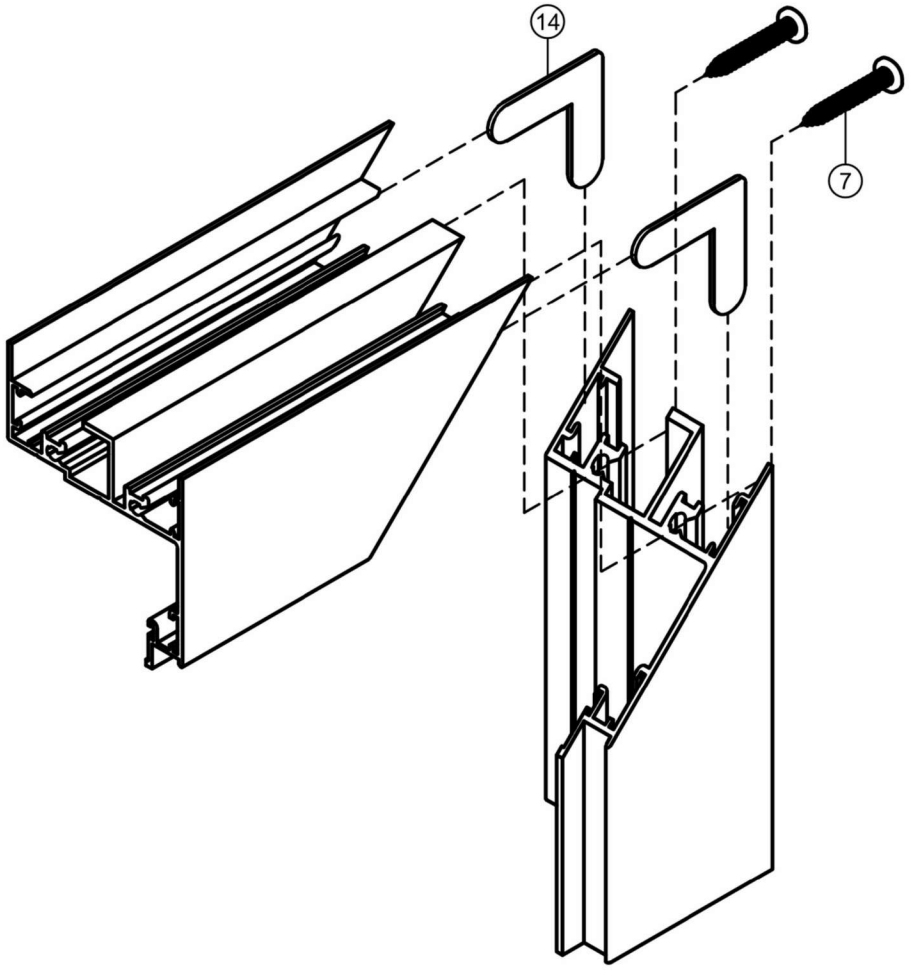
FL#41650.1

05

05 of 06



VENT CORNERS



FRAME CORNERS



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