



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL41651-R1
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	Lynn Miller, P.E.
Address/Phone/Email	1070 Technology Dr N Venice, FL 34275 (941) 486-0100 Ext 21142 lmiller@pgtindustries.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Windows
Subcategory	Awning
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	A. Lynn Miller, P.E.
Florida License	PE-58705
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	12/31/2032
Validated By	Steven M. Urich, PE ☒ Validation Checklist - Hardcopy Received
Certificate of Independence	FL41651_R1_COI_Cert of Independence.pdf
Referenced Standard and Year (of Standard)	Standard TAS 201, 202 & 203
	Year 1994
Equivalence of Product Standards Certified By	
Sections from the Code	

Product Approval Method

Method 1 Option D

Date Submitted	10/19/2023
Date Validated	10/19/2023
Date Pending FBC Approval	10/27/2023
Date Approved	12/13/2023
Date Revised	12/13/2024

Summary of Products

FL #	Model, Number or Name	Description
41651.1	Eco-Guard Series 560 Awning Window	Large Missile, Aluminum Awning 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 FL41651_R1_II_AW560FPA - LMI REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL41651_R1_AE_ECO AW560LMI ENG EVAL - REV A.pdf Created by Independent Third Party: No

[Back](#)

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[Contact Us](#) :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



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

WDW. WIDTH	WDW. HEIGHT
19- 1/ 8"	53- 1/ 8"
26- 1/ 2"	53- 1/ 8"
32"	53- 1/ 8"
37"	53- 1/ 8"
42"	46- 3/ 4"
48"	40- 7/ 8"
53- 1/ 8"	37"

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

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

ECO-GUARD SERIES-560
ALUMINUM PROJECT-OUT WINDOW

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE
COMBINATIONS OF PROJECTED/PROJECTED OR PROJECTED WITH
OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS
USING FBC 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.

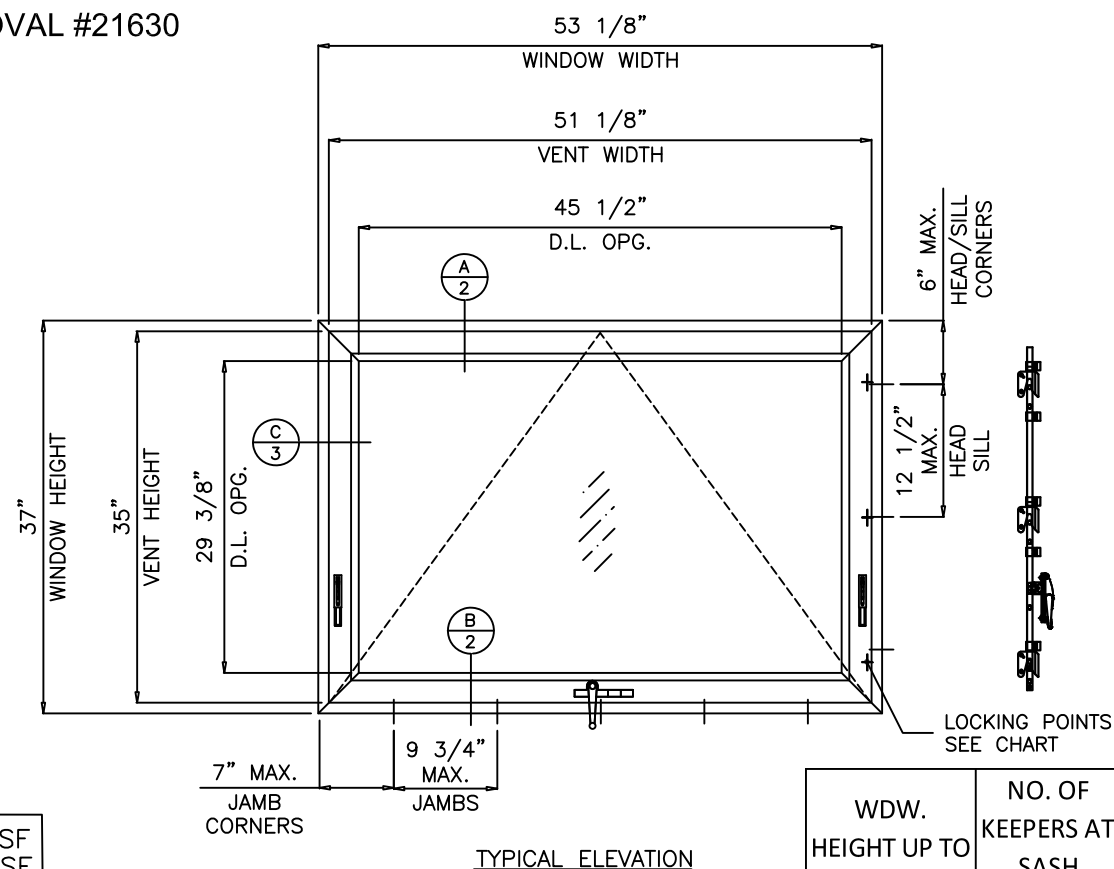
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

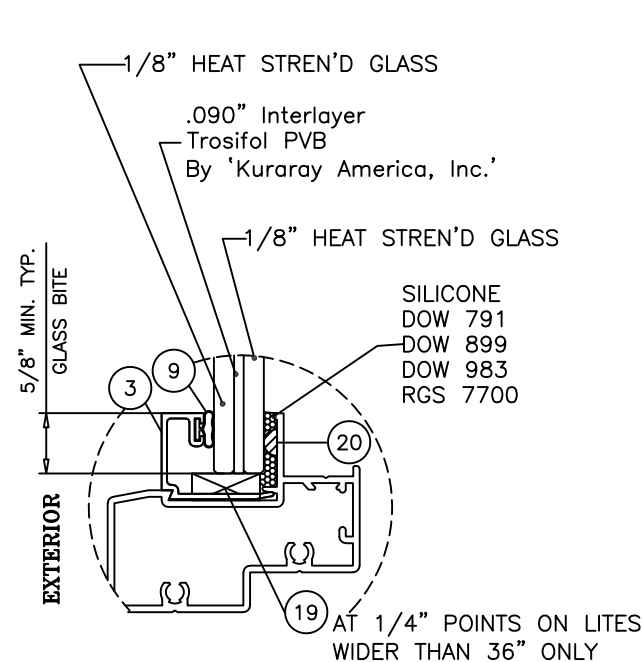
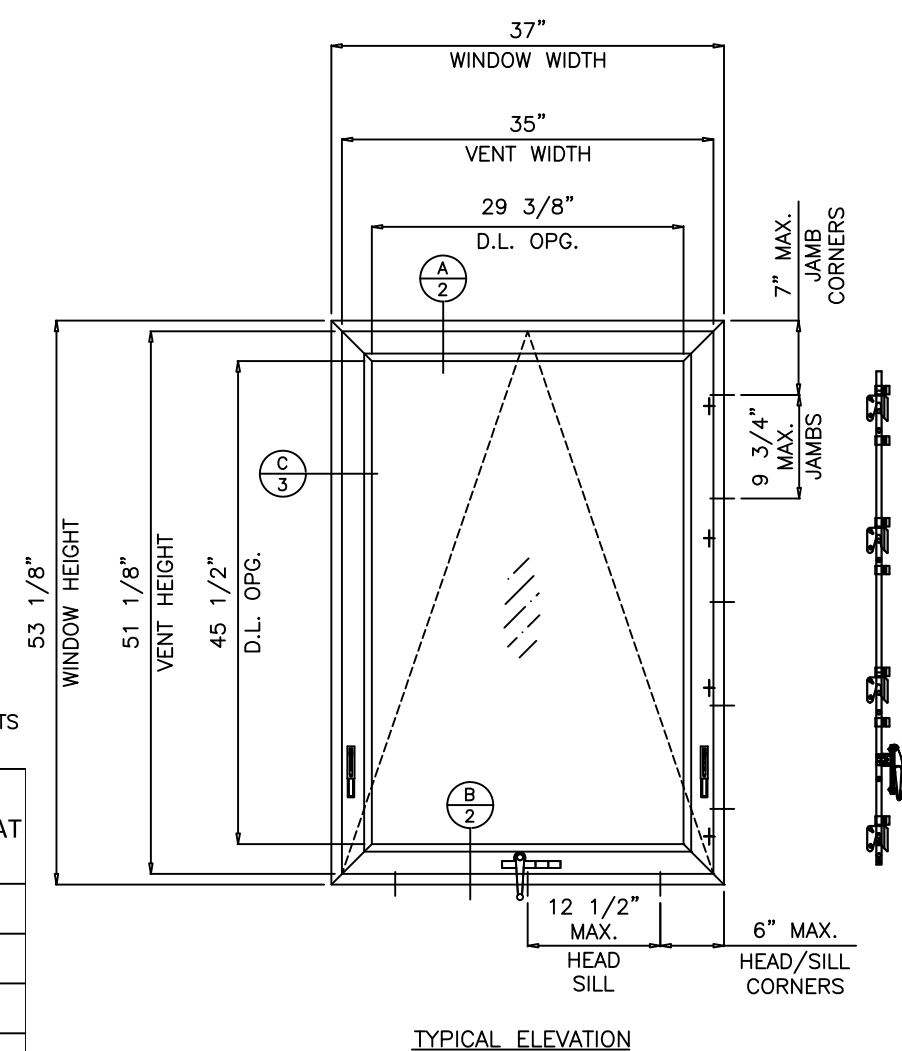
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

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

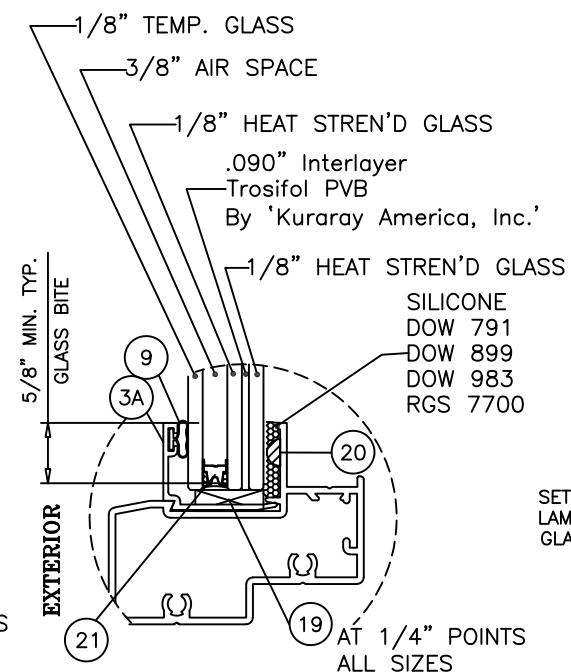
DESIGN LOAD SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.



WDW. HEIGHT UP TO	NO. OF KEEPERS AT SASH
26"	2
38- 3/ 8"	3
50- 5/ 8"	4
53- 1/ 8"	4



GLASS TYPE 'A'

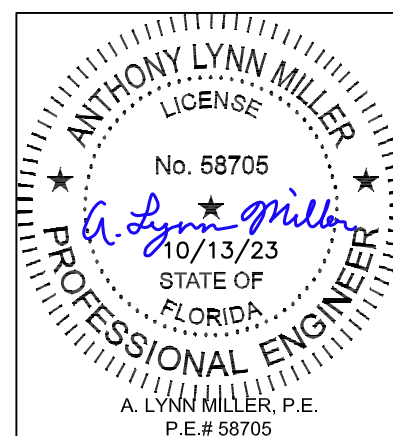


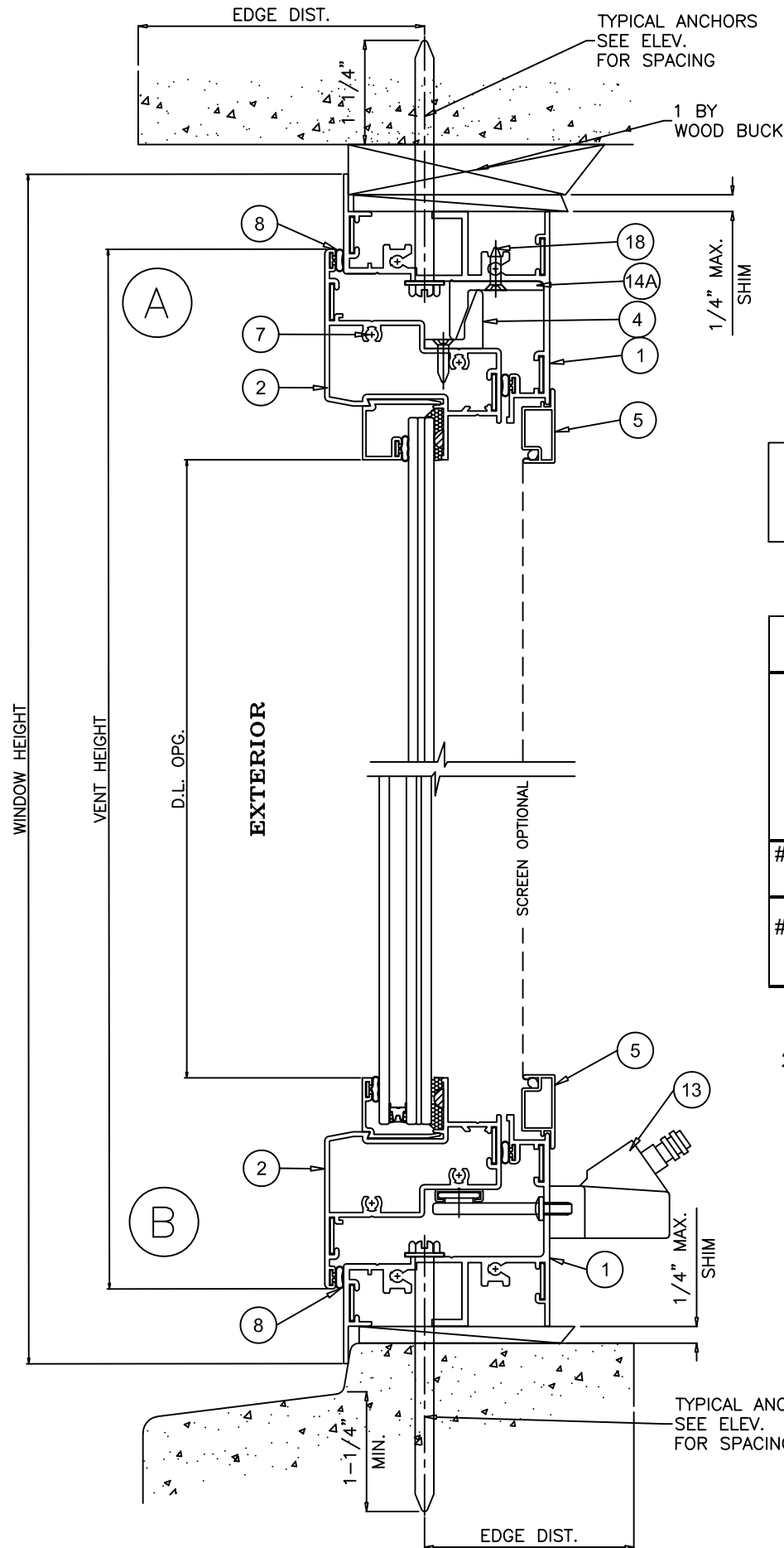
GLASS TYPE 'AA'

GLAZING OPTIONS

Revision:	PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL
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	windows ECO WINDOW SYSTEMS, LLC. 8802 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
	REGISTRATION #29296			
SERIES 560 ALUMINUM PROJECT OUT WINDOW		Date	8/1/2022	
ELEVATIONS & GLASSING OPTIONS		Drawn By	LMY	
Series Desc.	SERIES 560	Sheet	1 OF 6	DWG No.
AW560FPA-LMI			Rev.	A



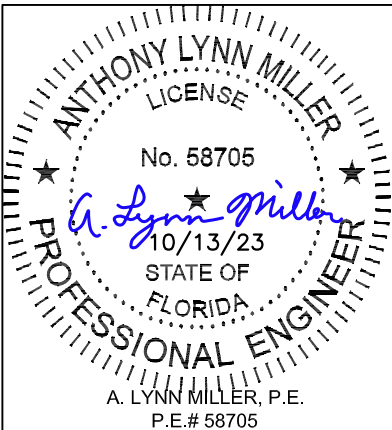
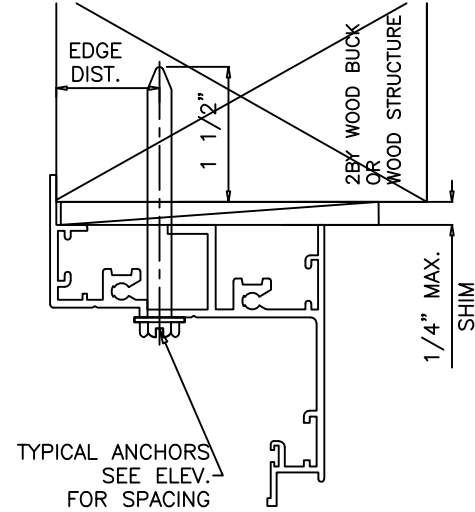
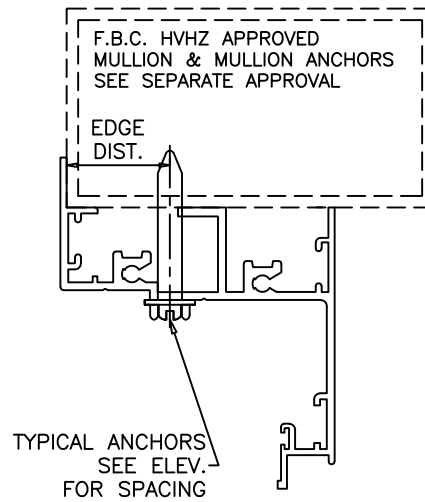
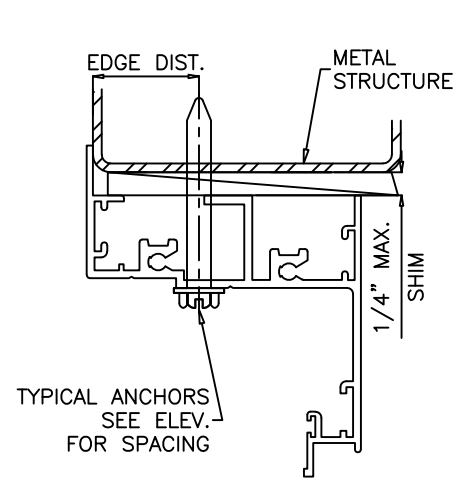
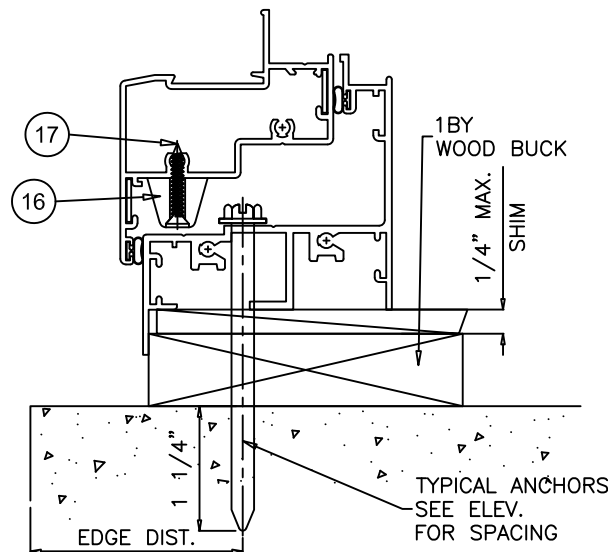


WOOD BUCKS AND METAL STRUCTURE NOT BY 'ECO WDW.'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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. 3 ksi)	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	FBC Approved Mullions	3/4"	(3) Threads min. beyond metal thickness
	All	Aluminum 1/8" Thk. Min. (6063-T5) (No Shim Space)	3/4"	(3) Threads min. beyond metal thickness
	All	Steel 1/8" Thk. Min. (min. 36 ksi) (No Shim Space)	3/4"	(3) Threads min. beyond metal thickness

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



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

ECO WINDOW SYSTEMS, LLC.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

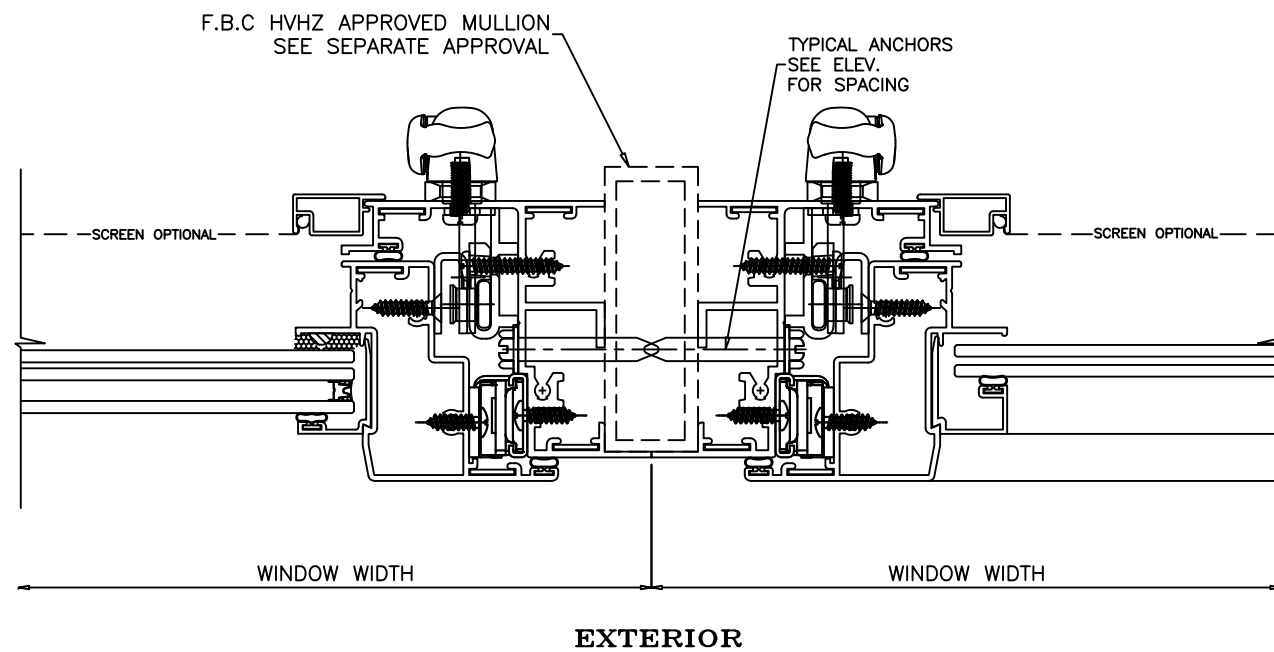
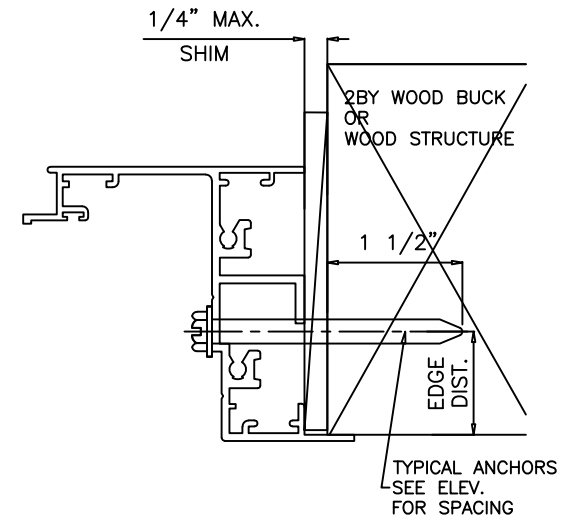
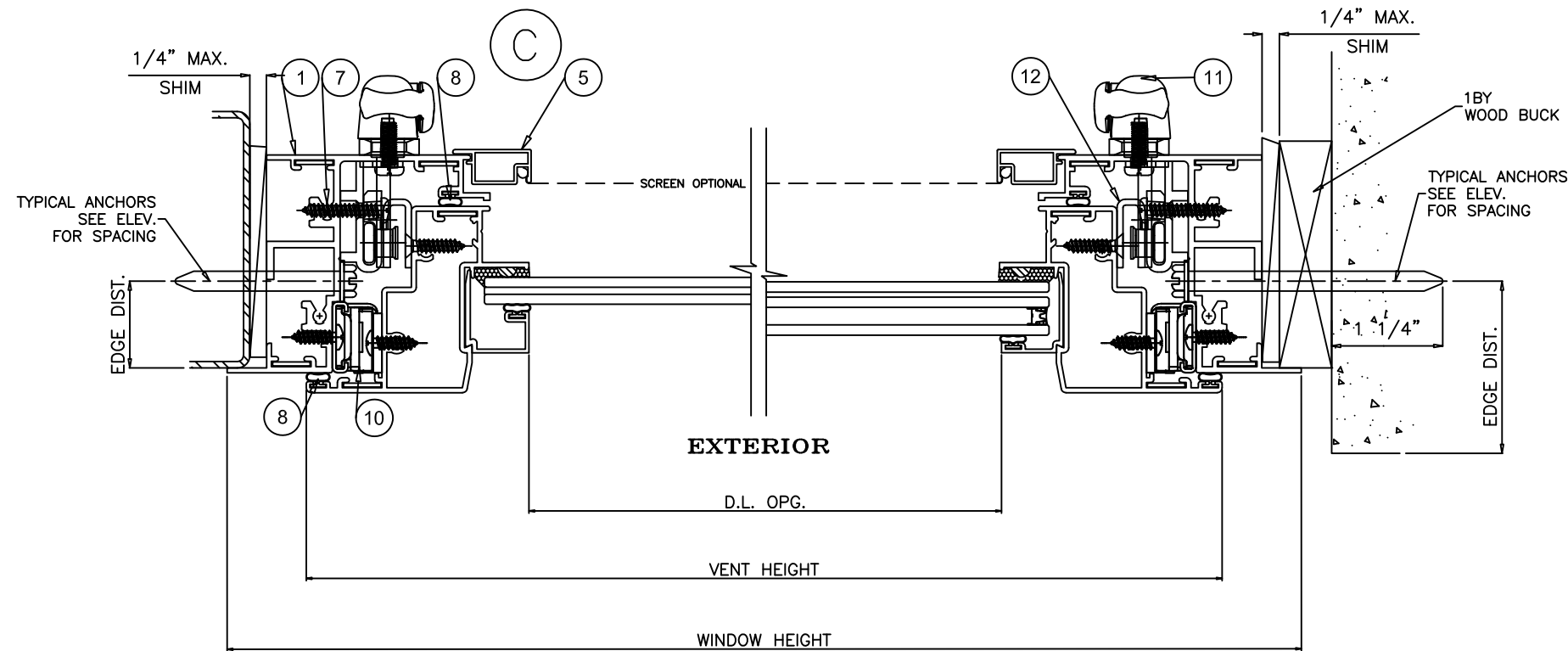
ECO WINDOW SYSTEMS, LLC.
1070 TECHNOLOGY DRIVE
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REGISTRATION #29296

ECO WINDOW SYSTEMS, LLC.
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

Series	Desc.	Sheet	No.	DWG	Rev.
SERIES 560	VERTICAL SECTION DETAIL & ANCHORS SPECIFICATIONS	2 OF 6	AW560FPA-LMI	A	

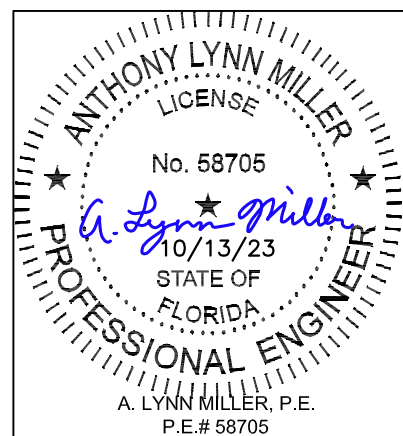
Revision:
PLACED ANCHORS IN TABLE
FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

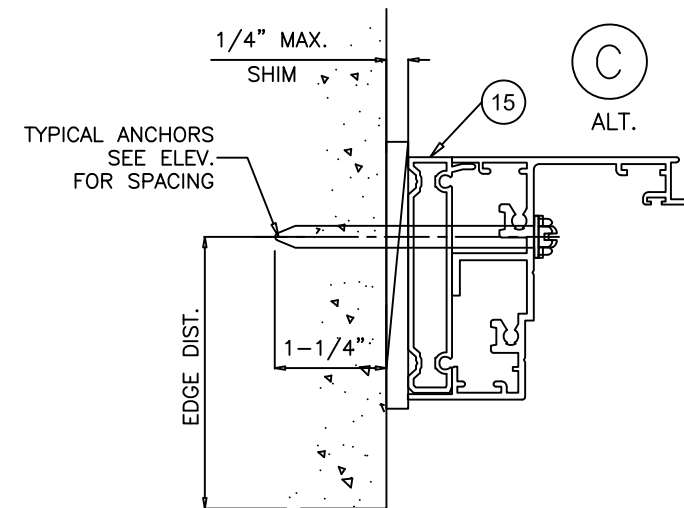
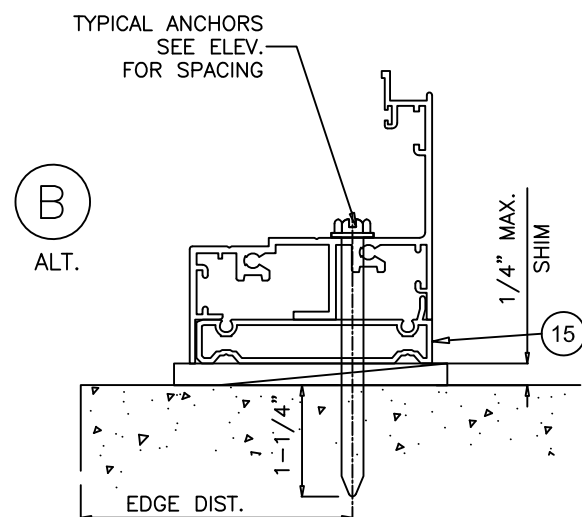
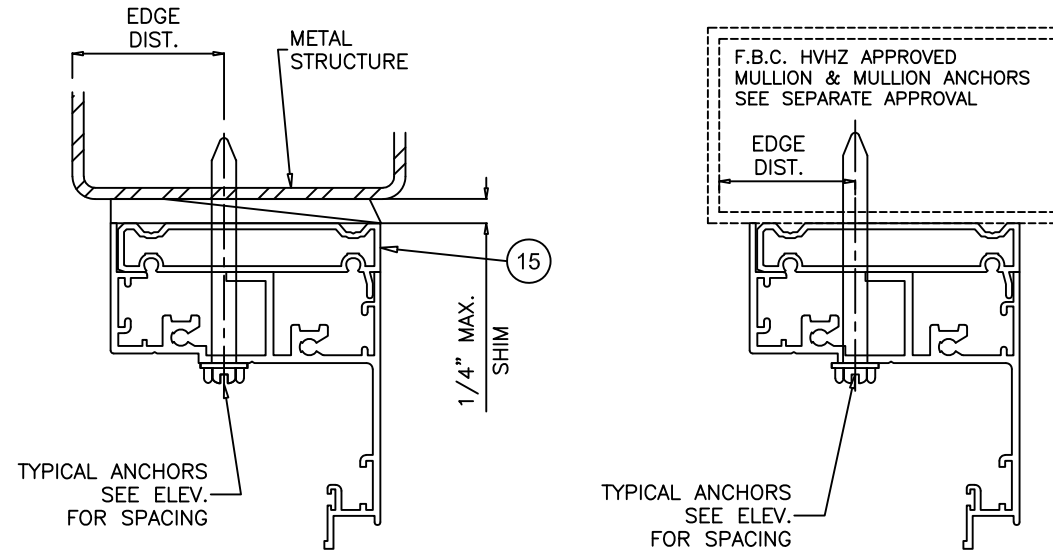
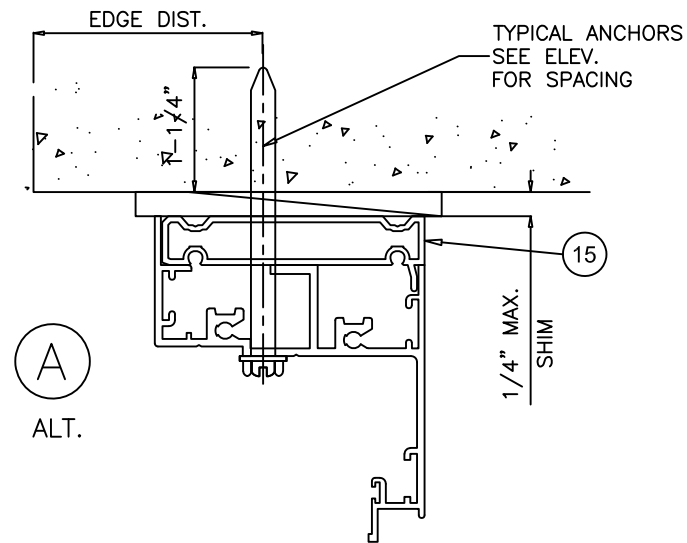
Revision:
PLACED ANCHORS IN TABLE
FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL



Revision:
PLACED
ANCHORS IN
TABLE
FORMAT,
ADDED
ANCHOR HEAD
TYPE NOTE,
REMOVED
SILICONE AND
BACKSTOP ON
INSTALL
DETAIL

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	8/1/2022	LMY	AW560FPA-LMI	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST., MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	SERIES 560 ALUMINUM PROJECT OUT WINDOW	Date	Drawn	No.	Rev.
window systems	HORIZONTAL CROSS SECTION DETAILS	Sheet	Dwg	3 OF 6	A

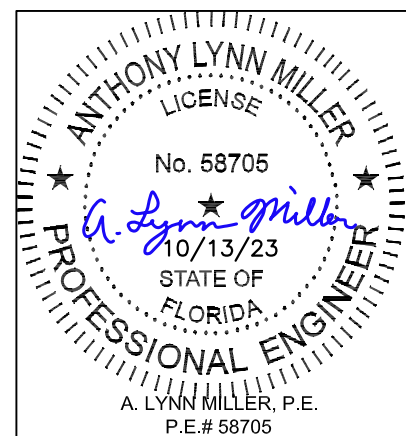


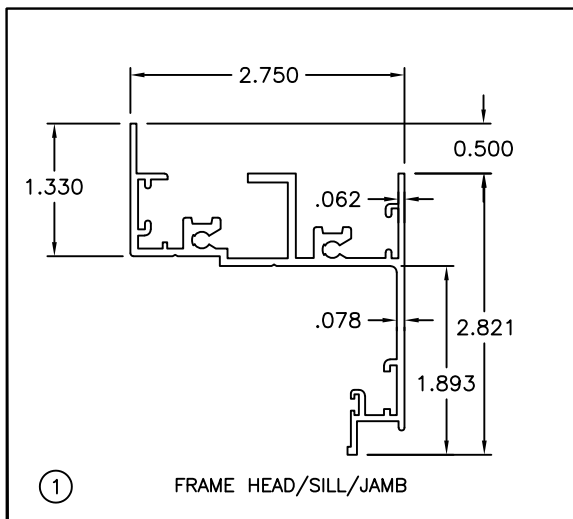


INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

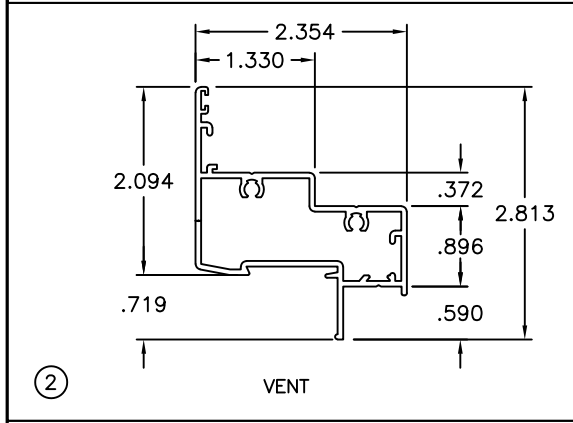
Revision:
PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL

 windo systems		ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296	
Title		Date	
SERIES 560 ALUMINUM PROJECT OUT WINDOW		8/1/2022	
Series Desc.		By	LMY
FLUSH FRAME INSTALLATION DETAILS			
SERIES 560		DWG No.	AW560FPA-LMI
Sheet		4 OF 6	
Rev.		A	

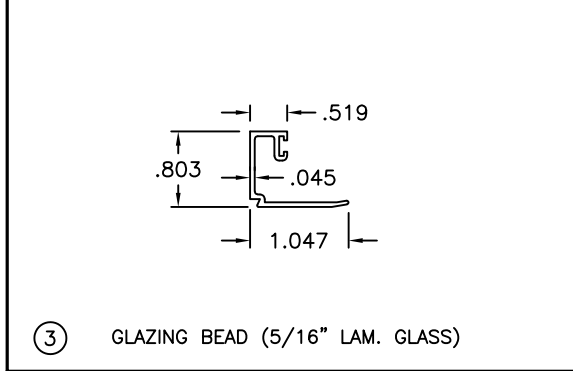




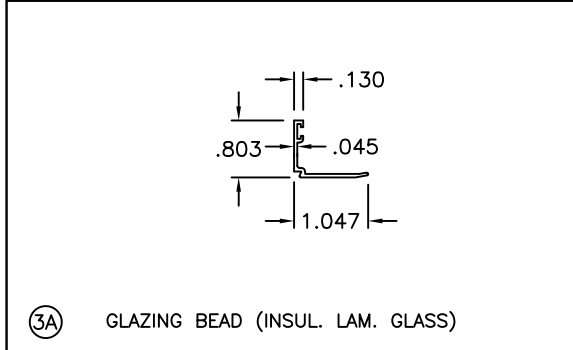
① FRAME HEAD/SILL/JAMB



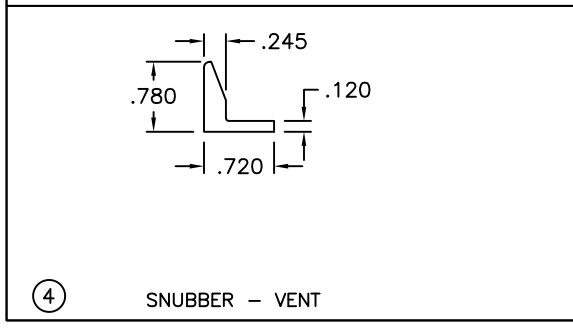
② VENT



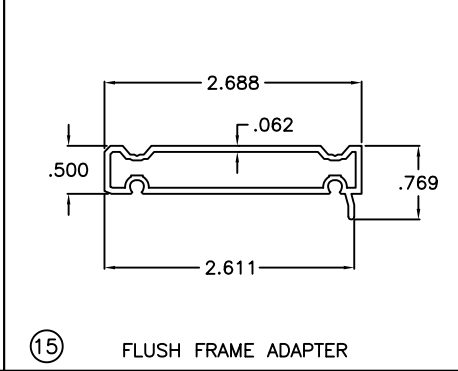
③ GLAZING BEAD (5/16" LAM. GLASS)



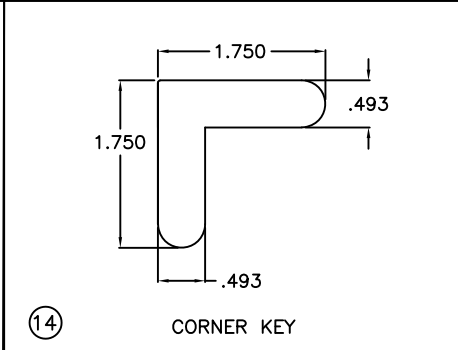
③A GLAZING BEAD (INSUL. LAM. GLASS)



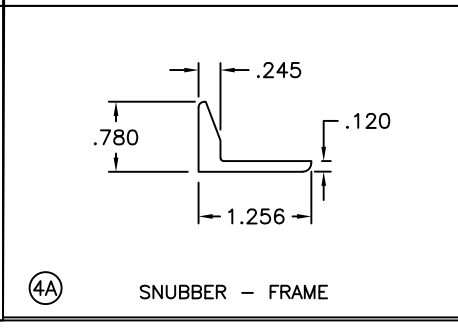
④ SNUBBER - VENT



⑮ FLUSH FRAME ADAPTER



⑭ CORNER KEY



④A SNUBBER - FRAME

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 (LAM. GLASS)	6063 - T6	-
3A	E505	AS REQD.	GLAZING BEAD (INSUL. 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 - T6	-
7	#10 X 1-1/4"	AS REQD.	FRAME AND VENT ASSEMBLY SCREWS	-	H WS 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 HINGES	ST. STEEL	TRUTH, INSTALLED WITH (2) #10 X 5/8" SDS
11	13096.92	1	MULTI POINT LOCK SYSTEM	-	TRUTH
12	31964.92	AS REQD.	KEEPER	STEEL	TRUTH
13	52.13.012	1/ VENT	ROTO OPERATOR	ZAMAK/STL.	TRUTH, AT 12" FROM ENDS
14	PSJ40-SS	2/ CORNER	FRAME/VENT CORNER KEY	ST. STEEL	-
15	FY120	AS REQD.	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL
16	-	2	ANTI SAG SKATE, AT 4-1/2" FROM EACH END	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 PARIS 2" APART, PAIRS SPACED AT 7-3/4" O.C.
19	-	AS REQD.	SETTING BLOCOK, 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 SYSTEMS # 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" PH 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" P FH SMS SEE CHART ON SHEET 1 FOR QUANTITIES.

HINGES:

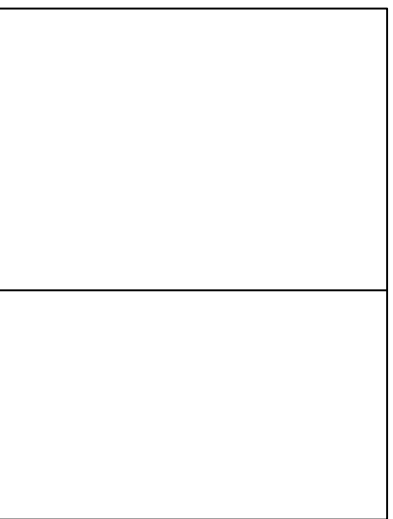
4 BAR ST/ST HINGES #35.12.00.400 BY 'TRUTH' LOCATED AT TOP AND BOTTOM CORNERS FASTENED WITH (2) #10 X 5/8" PH SELF DRILLING SCREWS EACH

OPERATOR:

SINGLE ARM ROTO OPERATOR #52.13.012 BY 'TRUTH' LOCATED AT MIDSPAN OF FRAME SILL 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 BOTTOM RAIL AT 4-1/2" FROM ENDS EACH FASTENED WITH (2) #10 X 1-1/4" FH SDS.



Revision:	PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL
-----------	--

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

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

ECO window systems

8/1/2022

By LMY

Drawn

Rev. A

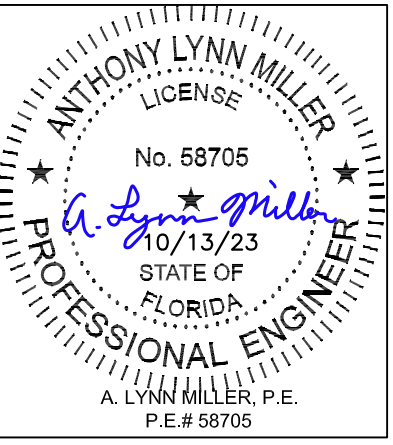
5 OF 6

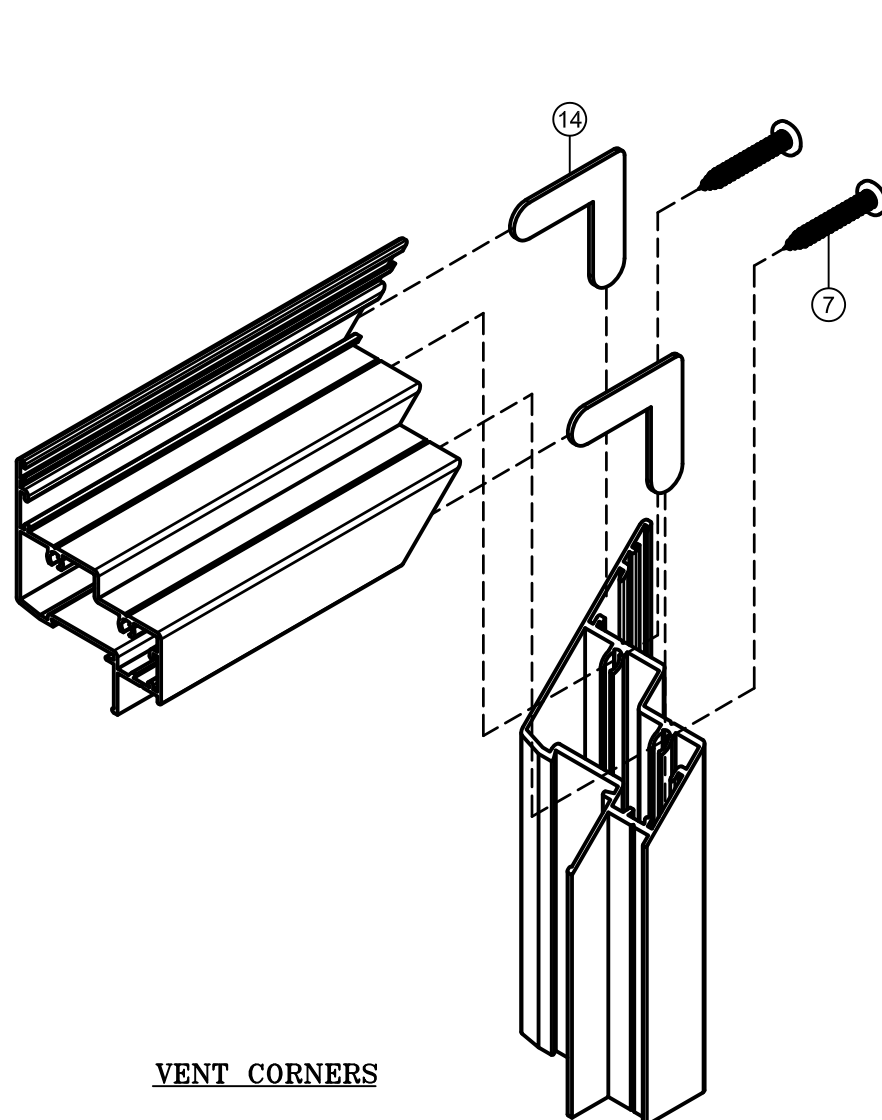
Sheet

Series 560

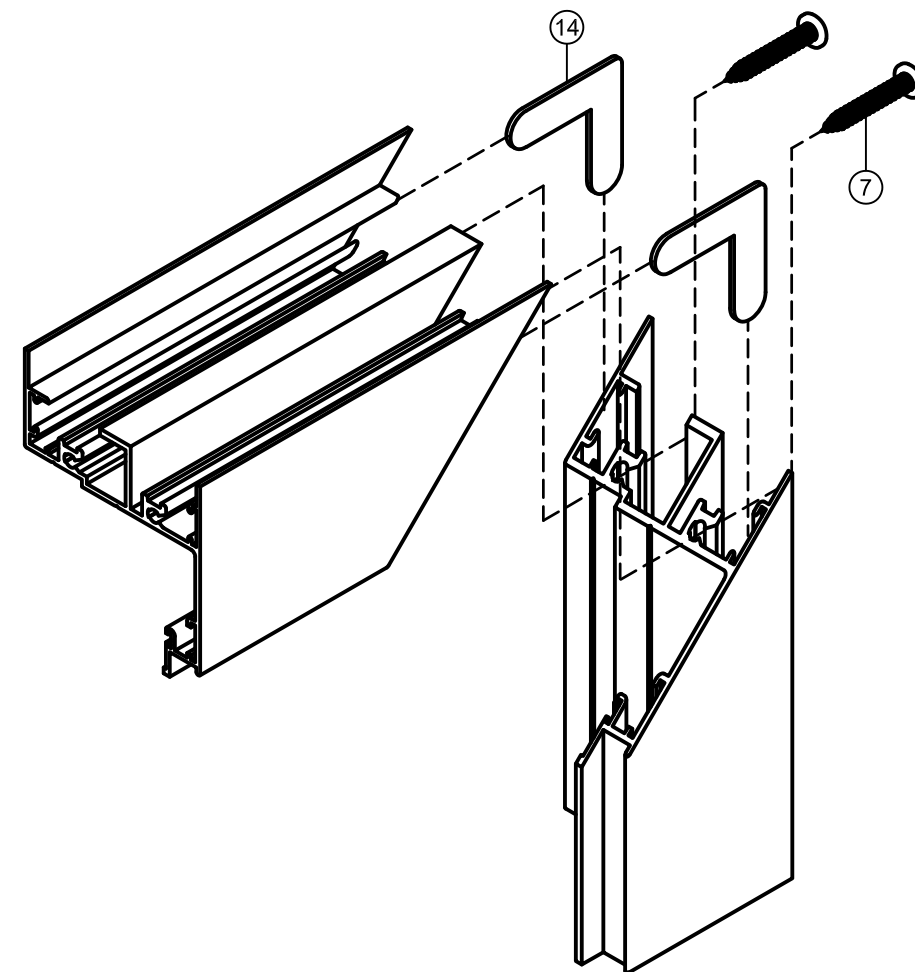
Desc. BOM & EXTRUSION & HARDWARE DETAILS

Title SERIES 560 ALUMINUM PROJECT OUT WINDOW

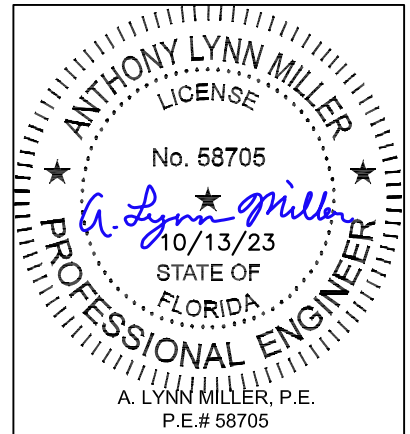




VENT CORNERS



FRAME CORNERS



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

Series	Desc.	Title
SERIES 560	CORNER ASSEMBLY	SERIES 560 ALUMINUM PROJECT OUT WINDOW
Sheet	No.	DWG
6 OF 6	6 OF 6	6 OF 6
Drawn By	LMY	Rev.
		A

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

Date 8/1/2022

Revision:
PLACED ANCHORS IN TABLE FORMAT, ADDED ANCHOR HEAD TYPE NOTE, REMOVED SILICONE AND BACKSTOP ON INSTALL DETAIL