



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #	FL41740-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 jrosowski@pgtindustries.com
Authorized Signature	Jens Rosowski jrosowski@pgtindustries.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	Mullions
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	FL41740_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

Summary of Products

FL #	Model, Number or Name	Description
41740.1	Eco-Guard Clipped Aluminum Tube Mullion	Aluminum Tube Mullion
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 FL41740_R1_II_MULLION - FPA REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL41740_R1_AE_Tube Mullion - Eng Eval REV A.pdf Created by Independent Third Party: No

[Back](#)[Next](#)

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

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Product Approval Accepts:

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT.
AND CAN BE USED WITH ALL FLORIDA PRODUCT APPROVED
IMPACT AND NO-IMPACT RESISTANT PRODUCTS.

**RECTANGULAR ALUMINUM TUBE MULLIONS
USING MULLION PROPERTIES ONLY**

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY
HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE
APPLICABLE BUILDING CODE REQUIREMENTS I.E.: WIND LOADS, WATER
FILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS, ETC.

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)'.

INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOW.

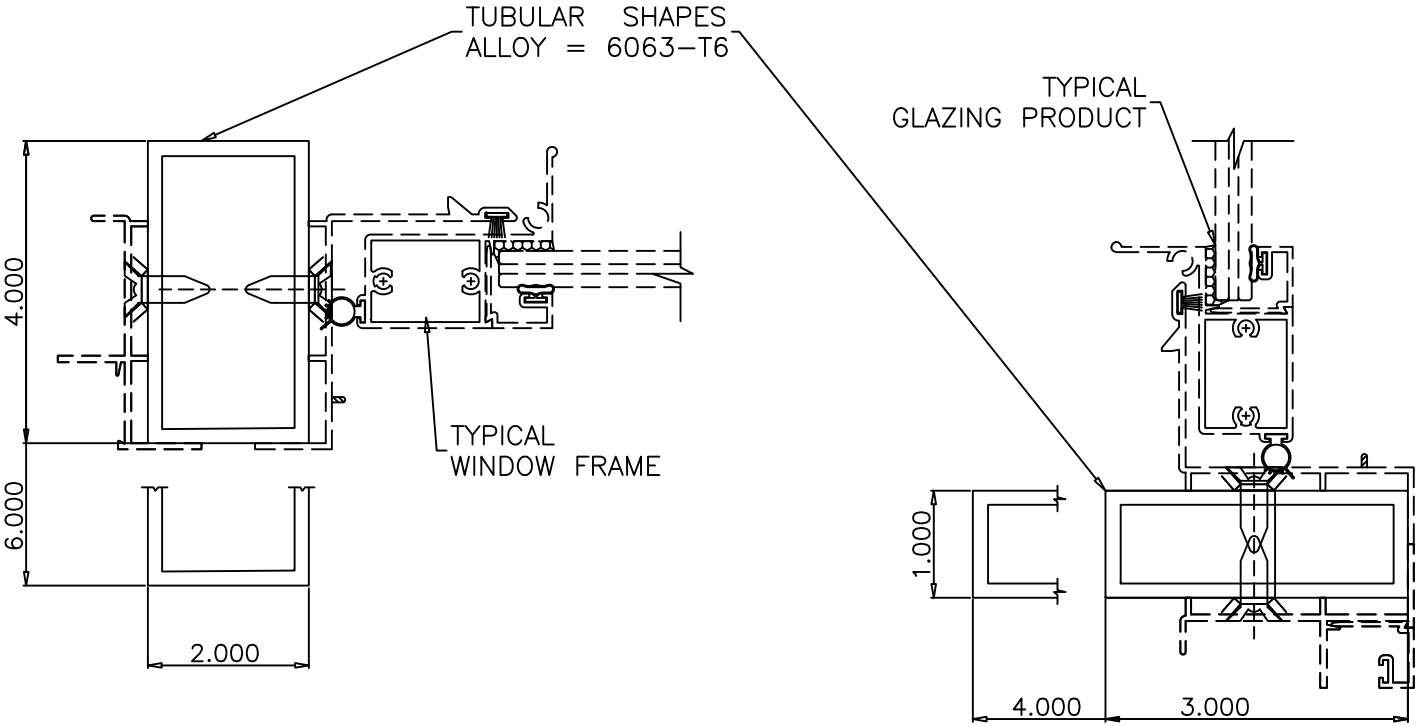
STEP 1 DETERMINE DESIGN LOADS REQUIRED PER ASCE 7 FOR PARTICULAR
OPENING.

STEP 2 USE FPA APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD
REQUIREMENTS.

STEP 3 USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.

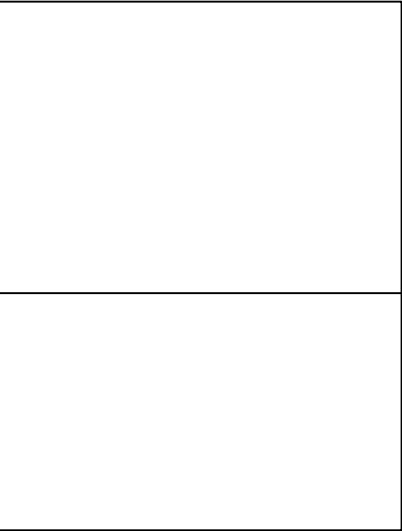
STEP 4 USING CHARTS ON SHEET 3 SELECT MULLION SIZE WITH DESIGN RATING
MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 5 USING ANCHOR TYPE ON SHEET 5 THRU 9 AND ANCHOR CHARTS ON SHEET
4, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN
LOADS SPECIFIED IN STEP 1 ABOVE.

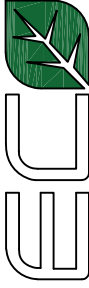


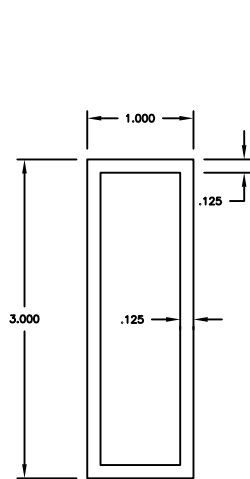
**MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS
HORIZONTAL OR VERTICAL**

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING.

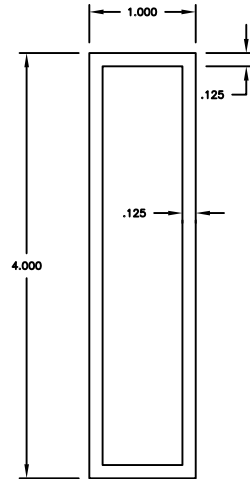


Revision:
REVISED
TABLE
FORMAT AND
ADDED DP
TABLE
ROUNDING
NOTE

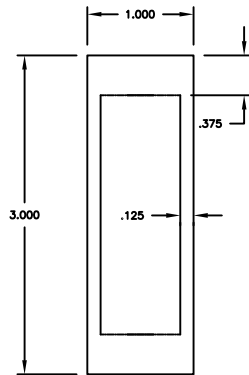
				PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST. MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902				REGISTRATION #29296			
ALUMINUM TUBE MULLIIONS				Date		9/27/2022	
GENERAL INFORMATION, NOTES & INSTRUCTIONS				Drawn		A. M.	
Series		MULLION		Sheet		1 OF 9	
Desc.		MULLION		DWG No.		MULLION-FPA	
						Rev.	
						A	



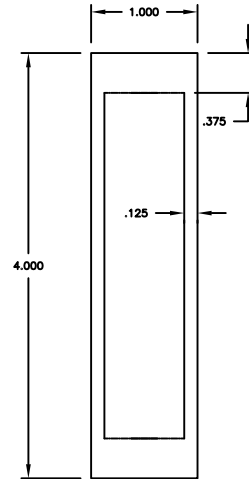
1 X 3
STD. MULLION
6063-T6



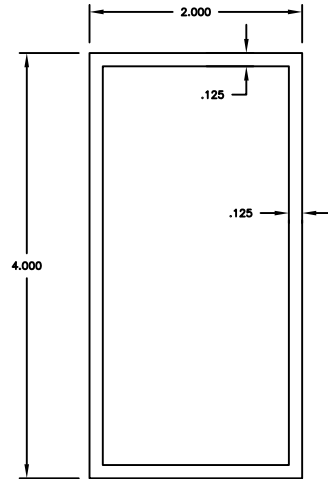
1 X 4
STD. MULLION
6063-T6



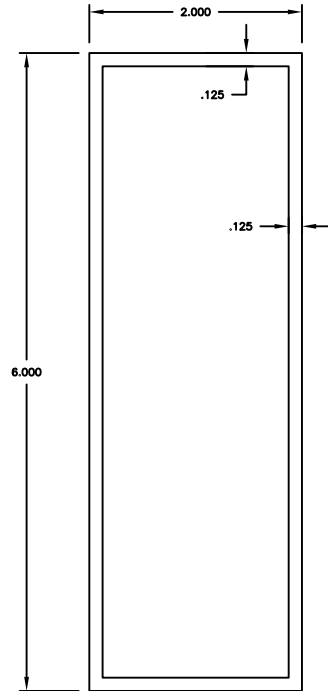
1 X 3
CUSTOM MULLION
6063-T6



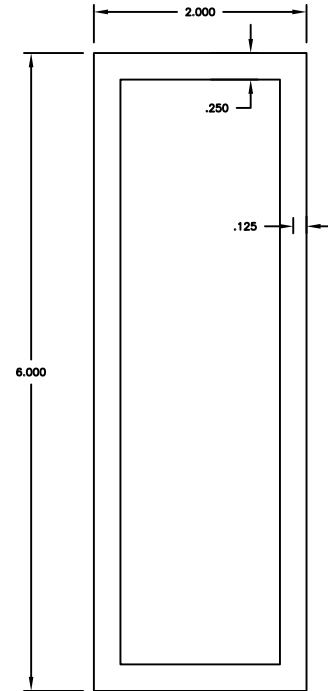
1 X 4
CUSTOM MULLION
6063-T6



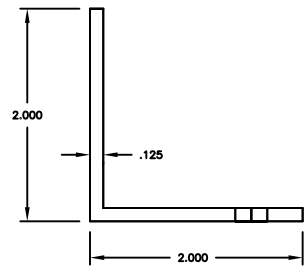
2 X 4
STD. MULLION
6063-T6



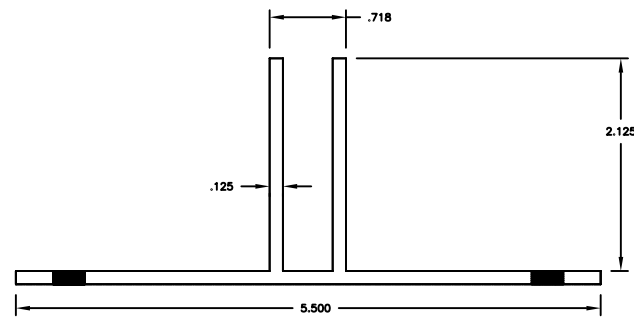
2 X 6
STD. MULLION
6063-T6



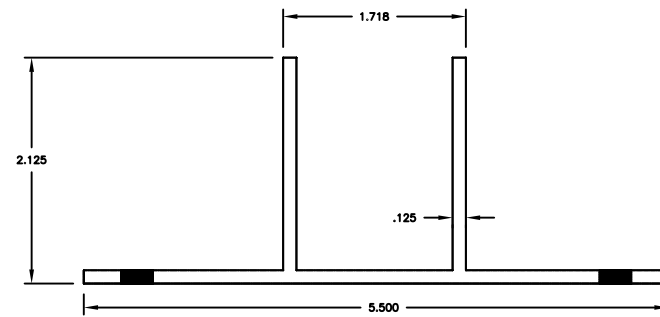
2 X 6
HEAVY MULLION
6063-T6



ANGLE CLIP
6063-T6



MULLION CLIP
6063-T6



MULLION CLIP
6063-T6

Revision:

REVISED
TABLE
FORMAT AND
ADDED DP
TABLE
ROUNDING
NOTE

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

REGISTRATION #29296



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ALUMINUM TUBE MULLIONS

Date 9/27/2022

By A. M.

MULLION-FPA

Rev. A

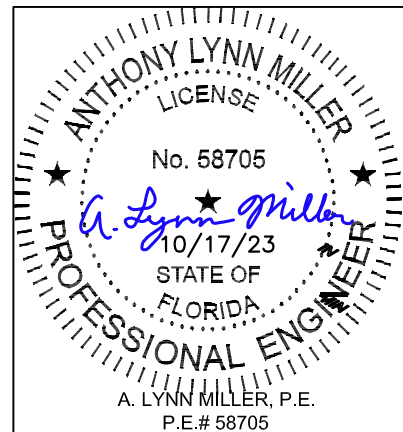
DWG No.

2 OF 9

Sheet

MULLION

TYPES OF MULLIONS & CLIPS



Design Load Capacity - PSF (1 X 3 Tube Mullions)								
Width (W)	Mull Type	Mull Span (in.)						
		38-3/8"	42"	50-5/8"	63"	74-1/4"	84"	96"
19-1/8"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-75.3	+/-52.0	+/-34.8
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-84.2	+/-56.4
26-1/2"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-89.0	+/-54.3	+/-37.5	+/-25.1
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-88.0	+/-60.8	+/-40.7
30"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-79.6	+/-48.0	+/-33.2	+/-22.1
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-77.7	+/-53.7	+/-36.0
37"	Std.	+/-120.0	+/-120.0	+/-103.1	+/-63.7	+/-38.9	+/-26.9	-
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-103.2	+/-63.0	+/-43.5	+/-29.2
42"	Std.	+/-120.0	+/-120.0	+/-90.8	+/-56.1	+/-34.3	+/-23.7	-
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-90.9	+/-55.5	+/-38.3	+/-25.7
48"	Std.	+/-120.0	+/-116.8	+/-79.5	+/-49.1	+/-30.0	+/-20.7	-
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-79.5	+/-48.6	+/-33.5	+/-22.5
54"	Std.	+/-120.0	+/-103.8	+/-70.6	+/-43.7	+/-26.7	-	
	Custom	+/-120.0	+/-120.0	+/-111.6	+/-70.7	+/-43.2	+/-29.8	
60"	Std.	+/-112.5	+/-93.4	+/-63.6	+/-39.3	+/-24.0	-	
	Custom	+/-120.0	+/-120.0	+/-100.4	+/-63.6	+/-38.9	+/-26.8	
66"	Std.	+/-102.3	+/-84.9	+/-57.8	+/-35.7	+/-21.8	-	
	Custom	+/-120.0	+/-120.0	+/-91.3	+/-57.8	+/-35.3	+/-24.4	
72"	Std.	+/-93.8	+/-77.9	+/-53.0	+/-32.7	-	-	
	Custom	+/-120.0	+/-120.0	+/-83.7	+/-53.0	+/-32.4	+/-22.4	

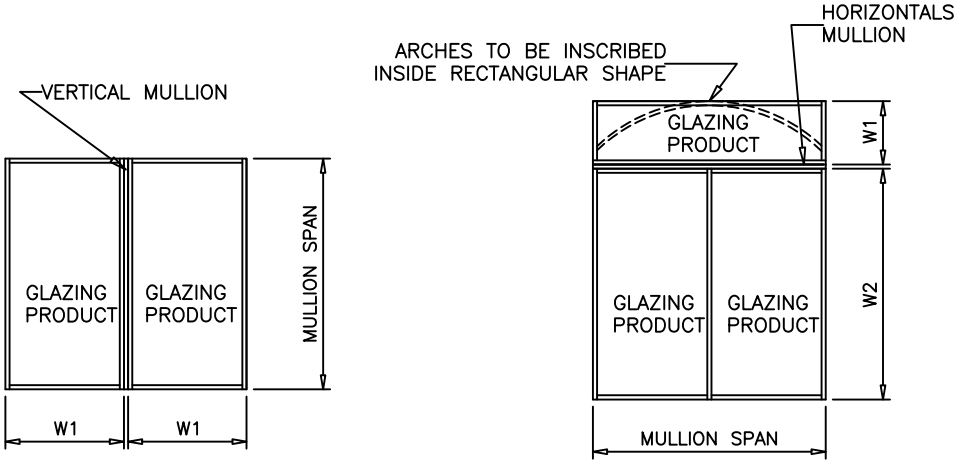
Design Load Capacity - PSF (2 X 4 Std. Tube Mullions)											
Width (W)	Mull Span (in.)										
	38-3/8"	42"	50-5/8"	63"	74-1/4"	84"	96"	108"	120"	132"	144"
19-1/8"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-109.3	+/-76.8	+/-56.0	+/-42.0	+/-32.4
26-1/2"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-117.7	+/-78.9	+/-55.4	+/-40.4	+/-30.3	+/-23.4
30"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-104.0	+/-69.7	+/-48.9	+/-35.7	+/-26.8	+/-20.6
37"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-116.3	+/-84.3	+/-56.5	+/-39.7	+/-28.9	+/-21.7	
42"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-102.4	+/-74.3	+/-49.8	+/-35.0	+/-25.5		
48"	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-89.6	+/-65.0	+/-43.5	+/-30.6			
54"	+/-120.0	+/-120.0	+/-120.0	+/-111.5	+/-79.7	+/-57.8	+/-37.8	+/-27.2			
60"	+/-120.0	+/-120.0	+/-120.0	+/-100.3	+/-71.7	+/-52.0	+/-34.8	+/-24.5			
66"	+/-120.0	+/-120.0	+/-120.0	+/-91.2	+/-65.2	+/-47.3	+/-31.7	+/-22.2			
72"	+/-120.0	+/-120.0	+/-120.0	+/-83.6	+/-59.7	+/-43.3	+/-29.0	+/-20.4			

Design Load Capacity - PSF (2 X 6 Tube Mullions)												
Width (W)	Mull Type	Mull Span (in.)										
		38-3/8"	42"	50-5/8"	63"	74-1/4"	84"	96"	108"	120"	132"	144"
19-1/8"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-116.8	+/-90.0
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0
26-1/2"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-110.9	+/-84.3	+/-64.9
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-119.2
30"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-97.9	+/-74.5	+/-57.4
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-105.3
37"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-98.7	+/-79.4	+/-60.4	+/-46.5
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-110.8	+/-85.4
42"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-110.9	+/-87.0	+/-69.9	+/-53.2	+/-41.0
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-97.6	+/-75.2
48"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-97.0	+/-76.1	+/-61.2	+/-46.5	+/-35.8
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-111.8	+/-85.4	+/-65.8
54"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-86.2	+/-67.6	+/-54.4	+/-41.4	+/-31.9
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-99.4	+/-75.9	+/-58.5
60"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-77.6	+/-60.9	+/-49.0	+/-37.2	+/-28.7
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-111.3	+/-89.5	+/-68.4	+/-52.6
66"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-70.6	+/-55.3	+/-44.5	+/-33.8	+/-26.1
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-101.2	+/-81.3	+/-62.1	+/-47.9
72"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-64.7	+/-50.7	+/-40.8	+/-31.0	+/-23.9
	Heavy	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-118.3	+/-92.7	+/-74.6	+/-57.0	+/-43.9

Design Load Capacity - PSF (1 X 4 Tube Mullions)																
Width (W)	Mull Type	Mull Span (in.)														
		38-3/8"	42"	50-5/8"	63"	74-1/4"	84"	96"	108"	120"	132"	144"				
19-1/8"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-110.6	+/-74.8	-	-	-	-				
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-116.9	+/-82.1	+/-59.9	+/-45.0	+/-34.6				
26-1/2"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-103.4	+/-79.8	+/-54.0	-	-	-	-				
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-117.7	+/-84.4	+/-59.3	+/-43.2	+/-32.5	+/-25.0				
30"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-91.3	+/-70.5	+/-47.7	-	-	-	-				
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-104.0	+/-74.5	+/-52.3	+/-38.2	+/-28.7	+/-22.1				
37"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-104.3	+/-74.0	+/-57.2	+/-38.7	-	-	-					
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-111.9	+/-84.3	+/-60.4	+/-42.4	+/-30.9	+/-23.2					
42"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-91.9	+/-65.2	+/-50.4	+/-34.1	-	-	-					
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-98.6	+/-74.3	+/-53.2	+/-37.4	+/-27.3	+/-20.5					
48"	Std.	+/-120.0	+/-120.0	+/-120.0	+/-80.4	+/-57.1	+/-44.1	+/-29.8	-	-						
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-120.0	+/-86.3	+/-65.0	+/-46.6	+/-32.7	+/-23.8						
54"	Std.	+/-120.0	+/-120.0	+/-112.5	+/-71.5	+/-50.7	+/-39.2	+/-26.5	-	-						
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-108.3	+/-76.7	+/-57.8	+/-41.4	+/-29.1	+/-21.2						
60"	Std.	+/-120.0	+/-120.0	+/-101.3	+/-64.3	+/-45.7	+/-35.3	+/-23.8	-							
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-97.5	+/-69.0	+/-52.0	+/-37.3	+/-26.2							
66"	Std.	+/-120.0	+/-120.0	+/-92.1	+/-58.5	+/-41.5	+/-32.1	+/-21.7	-							
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-88.6	+/-62.7	+/-47.3	+/-33.9	+/-23.8							
72"	Std.	+/-120.0	+/-120.0	+/-84.4	+/-53.6	+/-38.0	+/-29.4	-	-							
	Custom	+/-120.0	+/-120.0	+/-120.0	+/-81.3	+/-59.7	+/-43.3	+/-31.1	+/-21.8							

MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.

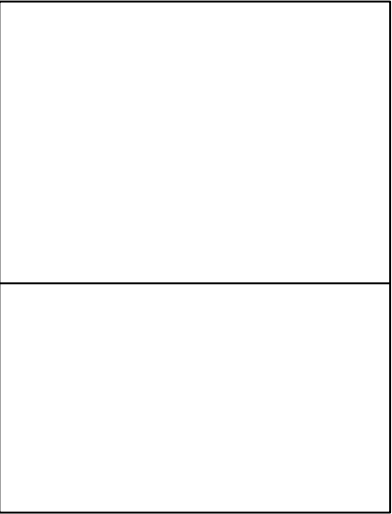
FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR SPAN DIMENSION SHOWN ON THE TABLE. (INTERPOLATION BETWEEN WIDTHS ALLOWED)



TYPICAL MULLION ARRANGEMENTS

WIDTH (W) = $\frac{W1 + W2}{2}$

MULLIONS



Revision:
REVISED
TABLE
FORMAT AND
ADDED DP
TABLE
ROUNDING
NOTE

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

ALUMINUM TUBE MULLIONS

MULLIONS LOAD DESIGNS

MULLION

9/27/2022

Date

A. M.

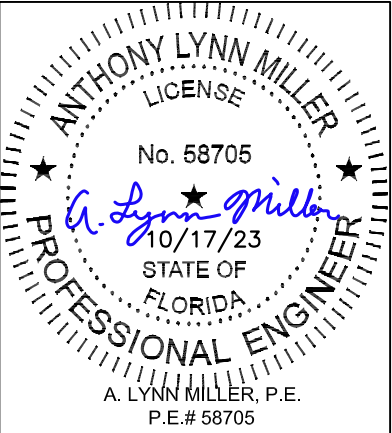
By

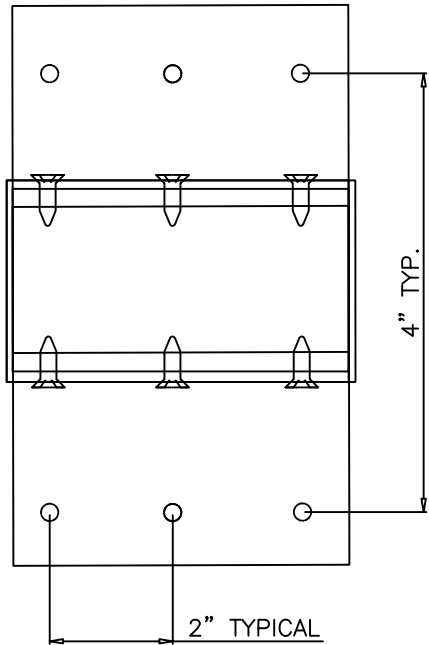
3 OF 9

Sheet

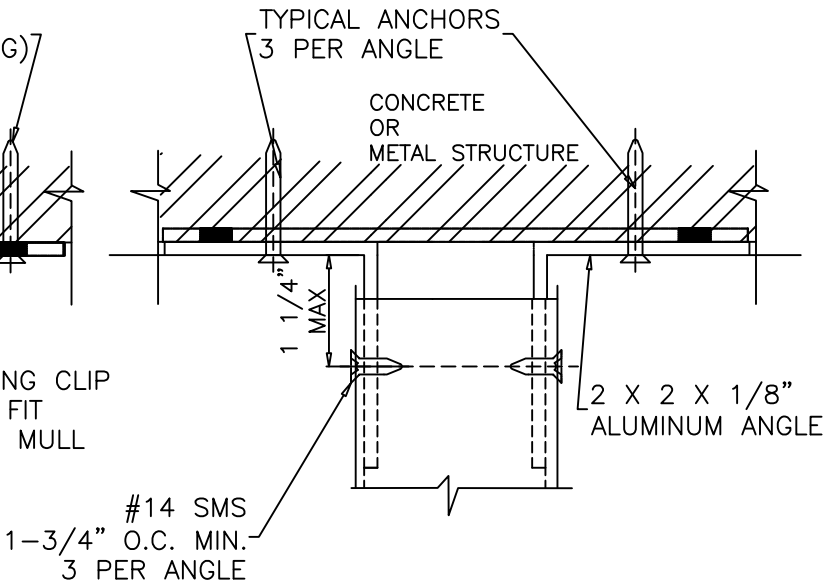
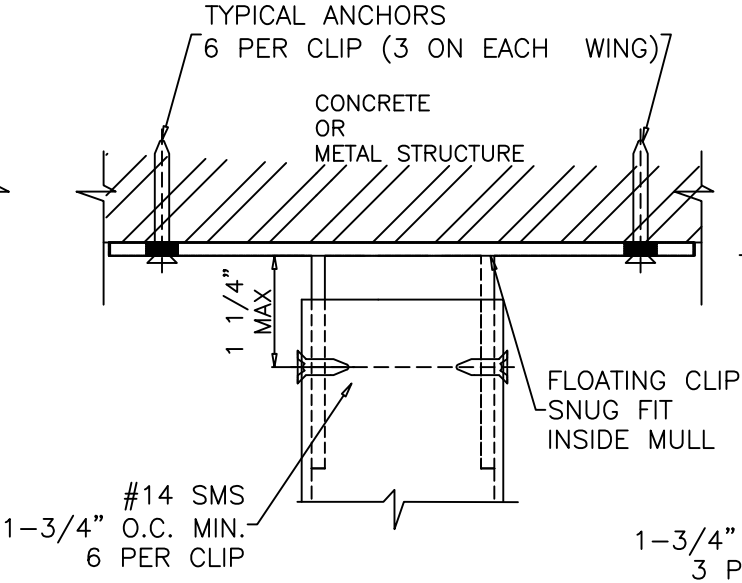
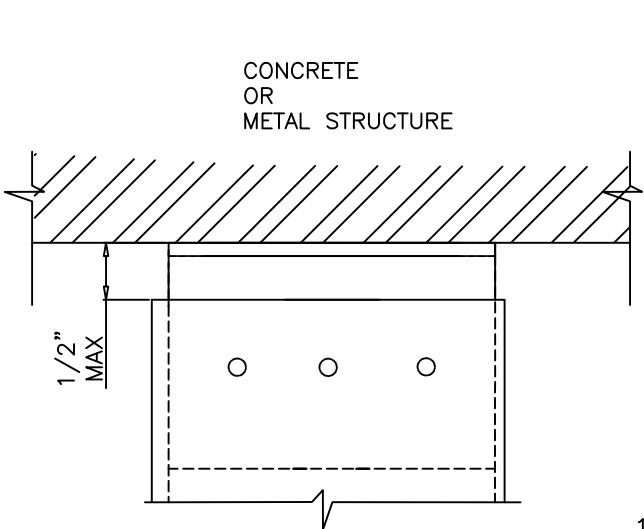
Rev.

A





ANCHORS TYPE 'A6'



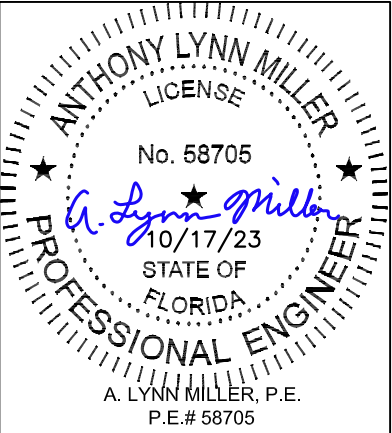
TYPICAL ANCHORS:			
ANCHOR TYPES	SUBSTRATE	MIN. EMBED.	MIN. EDGE DIST.
1/4" DIA. ULTRACON + (Fu=164 KSI, fy=148 KSI)	CONCRETE	1-3/4"	2-1/2"
1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)	METAL	1/8"	3/4"

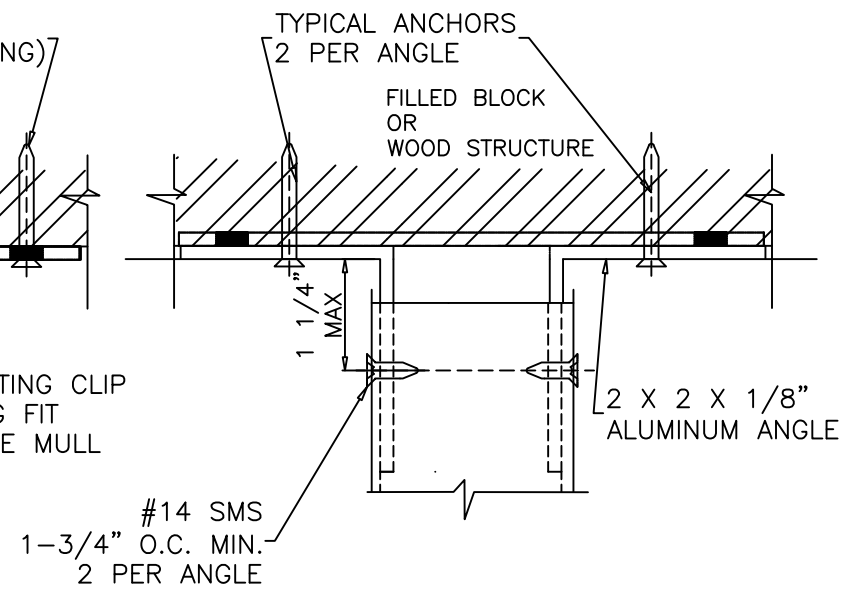
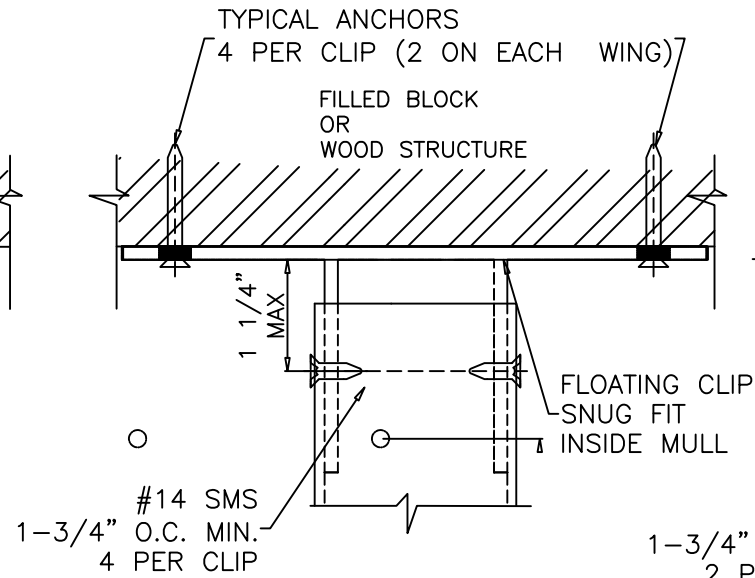
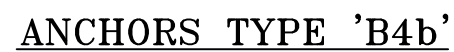
CONCRETE = f'c = 3000 PSI MIN.
METAL = 1/8" MIN. THK. STEEL Fy = 36 KSI MIN.
1/8" MIN. THK. ALUMINUM (6063-T5 MIN.)
ANCHORS MAY BE HEX OR FLAT HEAD.

ALL CLIPS AND ANGLES TO FIT SNUG INTO TUBE MULLIONS.
CLIPS OR ANGLES CONNECTED DIRECTLY TO MASONRY TO BE PROTECTED
WITH ALKALI-RESISTANCE COATINGS, SUCH AS BUTUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER

Revision:
REVISED
TABLE
FORMAT AND
ADDED DP
TABLE
ROUNDING
NOTE

PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296	9/27/2022	A. M.	MULLION-FPA	A
ECO WINDOW SYSTEMS, LLC. 8502 N.W. 80th ST., MEDLEY, FL 33166 TEL. (305) 885-5299 FAX. (305) 885-5902	ALUMINUM TUBE MULLIONS	ANCHOR DETAILS	MULLION	6 OF 9	Sheet
Series	Desc.	Title	No.	DWG	Rev.



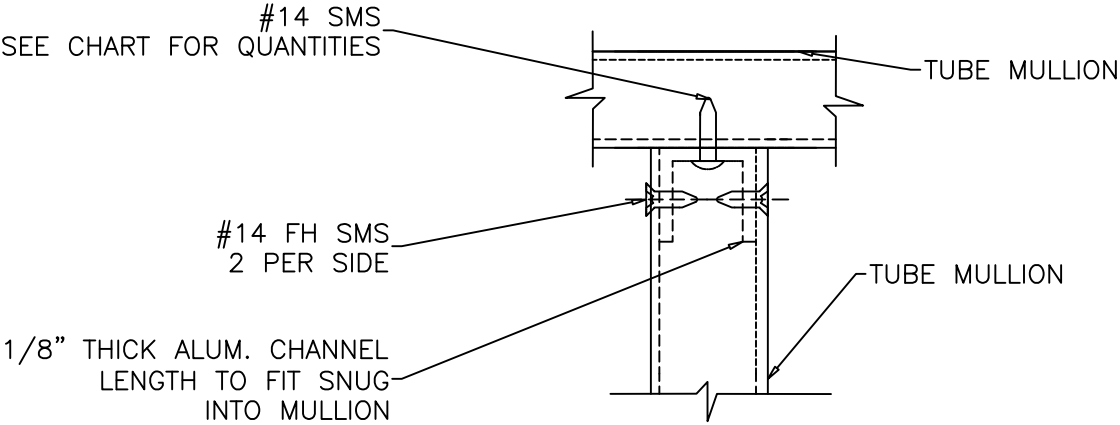


1BY OR 2BY WOOD BUCKS NOT BY 'ECO WINDOWS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO BUILDING STRUCTURE

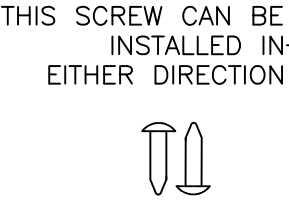
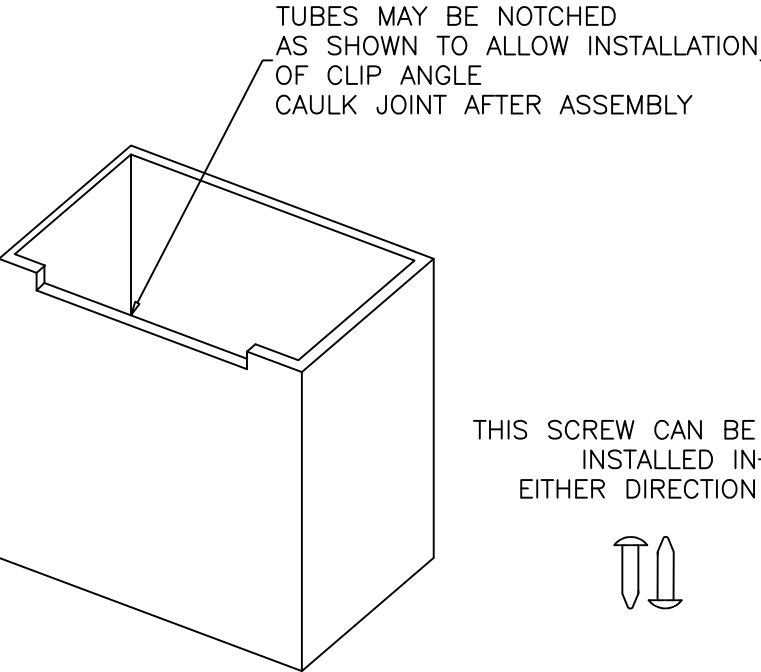
REVISED
TABLE
FORMAT AND
ADDED DP
TABLE
ROUNDING
NOTE

ANTHONY LYNN MILLER
LICENSE
No. 58705
10/17/23
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

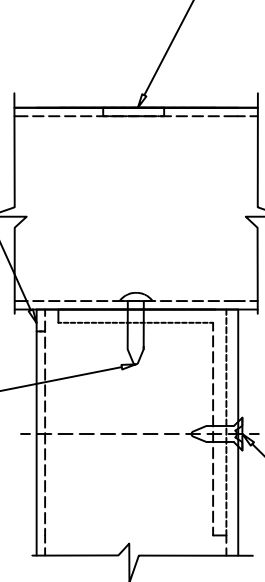
A. LYNN MILLER, P.E.
P.E.# 58705



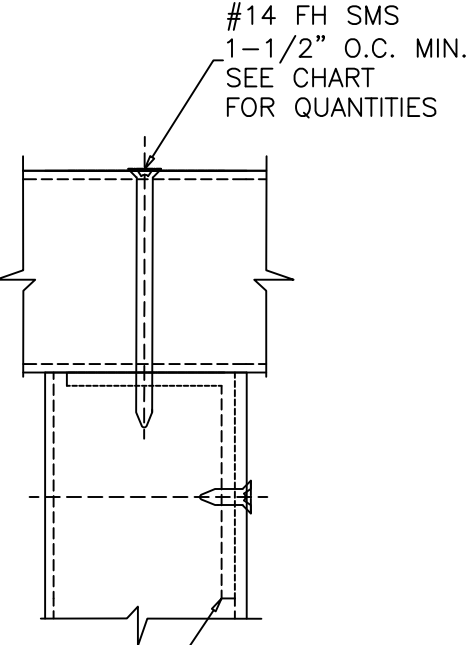
ANCHOR CHART	NO. OF SCREWS
TYPE A2	2
TYPE A4	3
TYPE A6	4



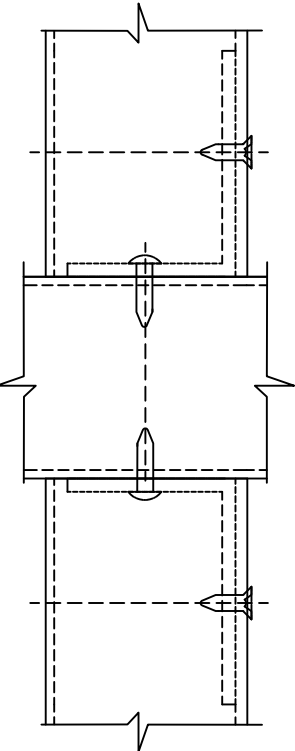
ACCESS HOLE



#14 FH SMS
2 PER CLIP
1" O.C. MIN.



1-3/4" X 2" X 1/8" FOR 2BY TUBE
3/4" X 2" X 1/8" FOR 1 BY TUBE
ALUM ANGLE CUT TO FIT SNUG INSIDE TUBE



ANCHORS DETAILS #1

METAL TO METAL CONNECTION

#14 SMS		
SUBSTRATE	Ed. = MIN. EDGE DIST.	MIN. CL TO CL SPACING
ALUMINUM	5/8"	1/2"

Revision:
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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

9/27/2022
Date

A. M.
By

MULLION-FPA
Rev.

A
Rev.

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Dwg No.

9 OF 9
Sheet

ALUMINUM TUBE MULLIONS
Title

ANCHOR DETAILS
Desc.

MULLION
Series

ANTHONY LYNN MILLER
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No. 58705
10/17/23
STATE OF
FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705