



# Aluminum Batten System

## Load & Span Table

**Prepared for:**

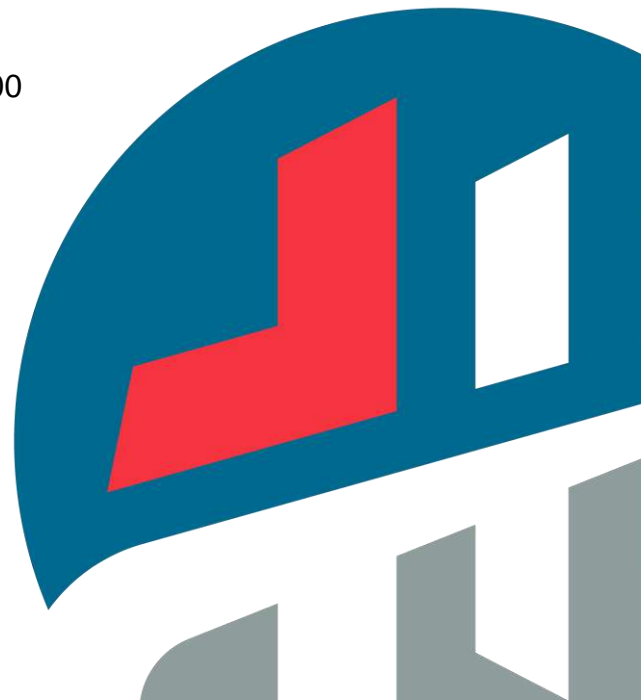
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May 12, 2021

**MTE File No.:** 49185-100





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Luxyclad Aluminum Architectural Systems  
C-24 Benfield Drive,  
St Catharines, ON L2S 3V5

**RE: Aluminum Batten System Load/Span Table**

MTE Consultants Inc. (MTE) has been retained Luxyclad Aluminum Architectural Systems (Luxyclad) to provide design calculations for three (3) snap baffles; 2x2, 2x4, & 2x6.

The following drawings were received for the calculations and are shown on Appendix C:

- Drawing no. A-29539 – 2" x 2" Snap Baffles
- Drawing no. A-31497-A – 2" x 4" Snap Baffles
- Drawing no. A-31498-B – 2" x 6" Snap Baffles

Design Codes & Standards

The following codes and standards were applied in performing the design calculations.

- National Building Code of Canada 2015 Division B Part 4 – Structural design
- Canadian Standards Association S157-05/S157.1-05 – Strength design in aluminum / Commentary on CSA S157-05
- The Aluminum Association Inc. Aluminum standards and Data 2009

Scope:

This report covers the structural integrity and serviceability check for each member size with the applied loadings for up to the maximum span of 7.30m (24' approx.). The drawings and models shown on this report shall not be used for fabrication and is for illustrative purposes only.

Physical Properties

Physical properties shall be taken as follows:

- Coefficient of Thermal Expansion,  $\alpha$  –  $24 \times 10^{-6} / ^\circ\text{C}$ ;
- Elastic modulus, E – 69000 MPa
- Poisson's ratio,  $\nu$  – 0.33
- Shear modulus, G – 26000 MPa
- Mass density,  $\rho$  – 2700 kg/m<sup>3</sup>

Appendix A shows each section property run using the S-Calc software. While Appendix B shows the design checks performed.

The maximum span of each member were identified using a minimum wind pressure of 0.25 kPa up to a maximum of 4.00 kPa applied to the major axis of the member. Each member was also checked with a 1.00 kN (225 lb) concentrated live load applied at midspan. The span was limited to the standard length the baffles come in (7.30m or 24' approx.) and spacing of the baffles are kept at 150mm o/c.

Below is the maximum span for each member size based on the calculations shown on Appendix B.

Spacing (mm)	150		
Designation	2" x 2"	2" x 4"	2" x 6"
Specified Wind Load (kPa)	Maximum Allowable Span (m)		
0.25	2.50	7.00	7.30
0.50	2.50	6.00	7.30
1.00	2.50	4.70	6.90
1.50	2.30	4.10	6.00
2.00	2.10	3.80	5.40
2.50	1.90	3.50	4.80
3.00	1.80	3.30	4.00
3.50	1.70	3.10	3.40
4.00	1.60	3.00	3.00



We trust this provides the information you require at this time. Should you have any questions or comments, please do not hesitate to contact the undersigned.

Yours Truly,

**MTE Consultants Inc.**



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This assessment does not wholly eliminate uncertainty regarding the potential for existing or future costs, hazards or losses in connection with a property. No physical or destructive testing and no design calculations have been performed unless specifically recorded. Conditions existing but not recorded were not apparent given the level of study undertaken. We can perform further investigation on items of concern if so required. Only the specific information identified has been reviewed. The consultant is not obligated to identify mistakes or insufficiencies in the information obtained from the various sources or to verify the accuracy of the information. The Consultant may use such specific information obtained in performing its services and is entitled to rely upon the accuracy and completeness thereof.

Responsibility for detection of or advice about pollutants, contaminants or hazardous materials is not included in our mandate. In the event the Consultant or any other party encounters any hazardous or toxic materials, or should it become known to the Consultant that such materials may be present on or about the jobsite or any adjacent areas that may affect the performance of the Consultant's services, the Consultant may, at its option and without liability for consequential or any other damages, suspend performance of its services under this Agreement until the Client retains appropriate consultants to identify and abate or remove the hazardous or toxic materials and warrants that the jobsite is in full compliance with all applicable laws and regulations.

Any time frame given for undertaking work represents an educated guess based on apparent conditions existing at the time of our letter. Failure of the item, or the optimum repair/replacement process, may vary from our estimate. We accept no responsibility for any decisions made or actions taken as a result of this letter unless we are specifically advised of and participate in such action, in which case our responsibility will be as agreed to at that time. Any user of this letter specifically denies any right to claims against the Consultant, Sub-Consultants, their Officers, Agents and Employees in excess of the fee paid for professional services.

# Appendix A

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## Section Properties

# Simply-supported Aluminum Battens

## Quick Report

Project no. 49185-100



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Checked By: \_\_\_\_\_

Sections - 1						
ID	Name	Geometric Perimeter (mm)	Geometric Area (A) (mm <sup>2</sup> )	Geometric Mass (kg/m)	Geometric Centroid Offset (Bottom Left Corner) X (mm)	Geometric Centroid Offset (Bottom Left Corner) Y (mm)
1	2x2	614.1257	568.7588	4.4658	25.3765	25.4045
2	2x4	820.148	694.6284	5.4541	50.8394	25.3992
3	2x6	1,017.229	1,010.413	7.9336	76.3556	25.3995

Sections - 2					
Geometric Moment of Inertia X (Ix) (mm <sup>4</sup> )	Geometric Moment of Inertia Y (Iy) (mm <sup>4</sup> )	Geometric Product Of Inertia (Ixy) (mm <sup>4</sup> )	Geometric Radius of Gyration X (Rx) (mm)	Geometric Radius of Gyration Y (Ry) (mm)	Geometric Section Modulus X (Sx) (mm <sup>3</sup> )
1.9575e+5	2.0116e+5	-6.4745e+4	18.5519	18.8065	7,704.7
2.7417e+5	1.0829e+6	-1.4923e+5	19.867	39.4837	1.0794e+4
4.4299e+5	3.2953e+6	-2.0160e+5	20.9387	57.1079	1.7440e+4

Sections - 3						
Geometric Section Modulus Y (Sy) (mm <sup>3</sup> )	Principal Theta (deg)	Principal Moment of Inertia Major (mm <sup>4</sup> )	Principal Moment of Inertia Minor (mm <sup>4</sup> )	Principal Radius of Gyration Major (Rxp) (mm)	Principal Radius of Gyration Minor (Ryp) (mm)	Principal Section Modulus Major Bottom (Sx) (mm <sup>3</sup> )
7,927.8466	46.1965	2.6326e+5	1.3366e+5	21.5143	15.3295	7,387.6856
2.1303e+4	79.872	1.1096e+6	2.4751e+5	39.9667	18.8765	2.0396e+4
4.3160e+4	85.977	3.3094e+6	4.2881e+5	57.2306	20.6009	4.2483e+4

Sections - 4				
Principal Section Modulus Major Top (Sx) (mm <sup>3</sup> )	Principal Section Modulus Minor Left (Sy) (mm <sup>3</sup> )	Principal Section Modulus Minor Right (Sy) (mm <sup>3</sup> )	Principal Plastic Section Modulus X (Zx) (mm <sup>3</sup> )	Principal Plastic Section Modulus Y (Zy) (mm <sup>3</sup> )
7,387.0102	3,740.2457	3,740.2564	1,1111e+4	6,879.0325
2.0393e+4	7,305.8146	7,305.701	2.5937e+4	1.1735e+4
4.2481e+4	1.3983e+4	1.3983e+4	5.2694e+4	1.9178e+4

Sections - 5				
Plastic Centroid Offset (Elastic Neutral Axis) X (mm)	Plastic Centroid Offset (Elastic Neutral Axis) Y (mm)	Plastic Section Modulus X (Zx) (mm <sup>3</sup> )	Plastic Section Modulus Y (Zy) (mm <sup>3</sup> )	Polar Method
0	0	9,268.4047	1.0058e+4	Polygon
0	0	1,2412e+4	2.5657e+4	Polygon
0	0	1.9552e+4	5.2602e+4	Polygon

Sections - 6			
Polar Moment of Inertia (mm <sup>4</sup> )	Polar Radius of Gyration (mm)	Shear Center Centroid Offset (Elastic Neutral Axis) X (Xo) (mm)	Shear Center Centroid Offset (Elastic Neutral Axis) Y (Yo) (mm)
3.9691e+5	26.417	0.01	0.0024
1.3571e+6	44.2002	0.0087	-0.0002
3.7383e+6	60.8255	0.0041	-0.0026



Checked By: \_\_\_\_\_

Sections - 7				
Shear Center Center Offset (Principal Axis) X (Xop) (mm)	Shear Center Center Offset (Principal Axis) Y (Yop) (mm)	Shear Area Area X (Asx) (mm <sup>2</sup> )	Shear Area Area Y (Asy) (mm <sup>2</sup> )	Monosymmetry Constant Monosymmetry Constant (Bx) (mm)
0.0087	0.0056	291.26	187.591	0.0019
0.0013	0.0086	363.5908	160.8115	-0.0051
0.0023	0.0043	616.0297	190.9322	-0.0077

Sections - 8						
Torsional Constant Torsional Constant (J) (mm <sup>4</sup> )	Warping Constant Warping Constant (Cw) (mm <sup>6</sup> )	Stress Points Method	Stress Points Top Left X (mm)	Stress Points Top Left Y (mm)	Stress Points Top Right X (mm)	Stress Points Top Right Y (mm)
1,093.4628	8.4680e+7	Closed Form Solution	-24.7415	25.4067	-24.3746	25.4067
1,062.7058	5.2232e+8	Closed Form Solution	-50.2044	25.4008	50.4529	25.4008
1,715.9566	2.1019e+9	Closed Form Solution	-75.7206	25.4005	75.9696	25.4005

Sections - 9					
Stress Points Bottom Left X (mm)	Stress Points Bottom Left Y (mm)	Stress Points Bottom Right X (mm)	Stress Points Bottom Right Y (mm)	Reference Axis Properties Elastic Centroid Offset X (mm)	Reference Axis Properties Elastic Centroid Offset Y (mm)
24.3721	-25.4045	24.7391	-25.4045	0	0
-50.4584	-25.3992	50.1989	-25.3992	0	0
-75.9746	-25.3995	75.7156	-25.3995	0	0

Sections - 10				
Reference Axis Properties Moment of Inertia X (Ix) (mm <sup>4</sup> )	Reference Axis Properties Moment of Inertia Y (Iy) (mm <sup>4</sup> )	Reference Axis Properties Radius of Gyration X (Rx) (mm)	Reference Axis Properties Radius of Gyration Y (Ry) (mm)	Analysis Factors Area
1.9575e+5	2.0116e+5	18.5519	18.8065	1
2.7417e+5	1.0829e+6	19.867	39.4837	1
4.4299e+5	3.2953e+6	20.9387	57.1079	1

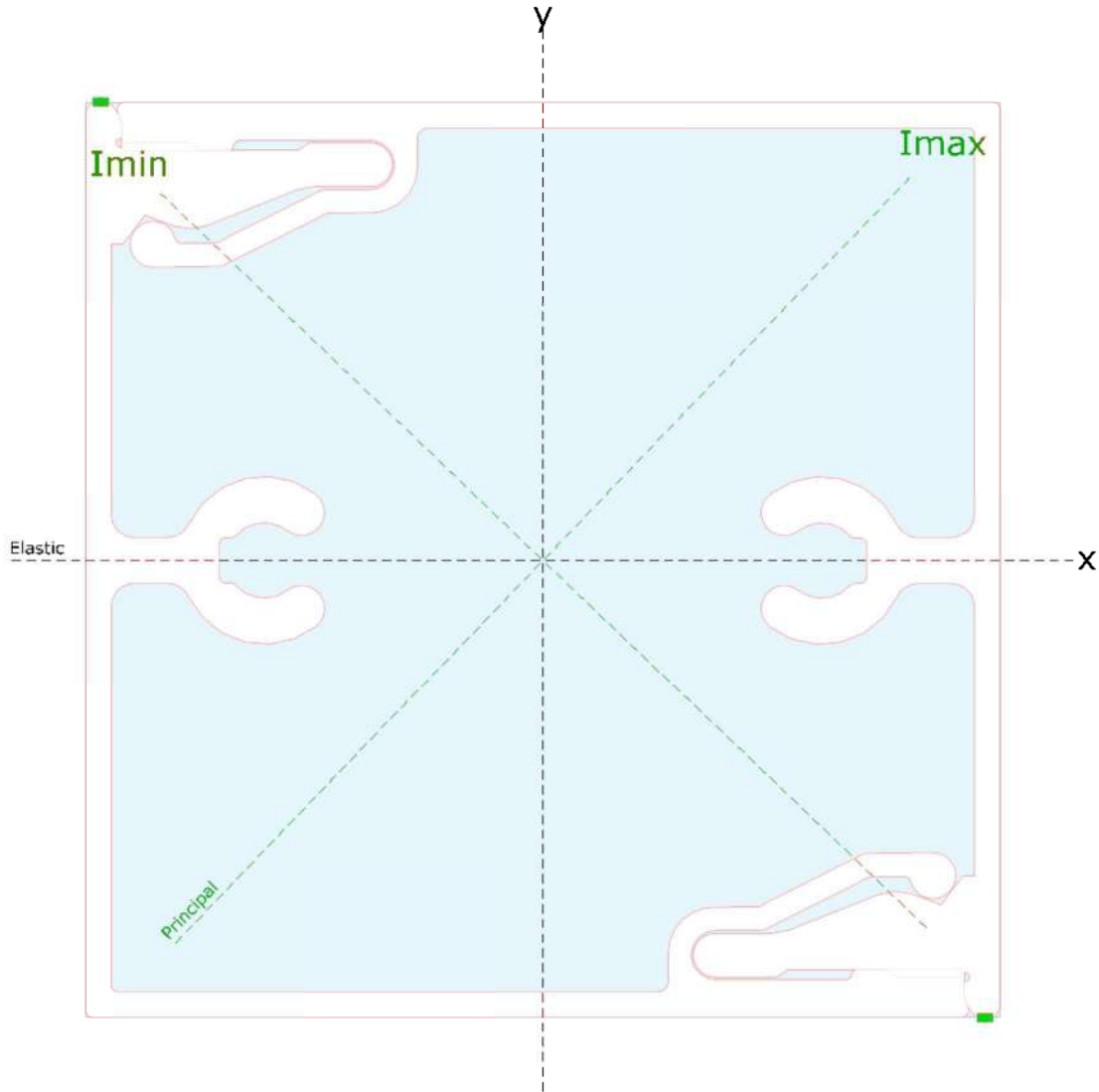
Sections - 11			
Analysis Factors Mass	Analysis Factors Moment of Inertia	Analysis Factors Shear Area	Analysis Factors Torsional Constant
1	1	1	1
1	1	1	1
1	1	1	1



Checked By: \_\_\_\_\_

Materials					
ID	Name	Young's Modulus (MPa)	Shear Modulus (MPa)	Density (kg/m <sup>3</sup> )	Strength (MPa)
1	Steel	2.00e+5	77,000	7,851.815	350
2	Concrete	27,000	11,250	2,447.319	30
3	Rebar Steel	2.00e+5	77,000	7,851.815	400

Checked By: \_\_\_\_\_



2x2

Checked By: \_\_\_\_\_

Summary		
Name	Layer GEOMETRY	
Reference Material	Steel	

Dimensions		
Width	50.751	mm
Depth	50.811	mm

Geometric Properties		
Perimeter	614.1257	mm
Area (A)	568.7588	mm <sup>2</sup>
Mass	4.4658	kg/m
Centroid Offset (Bottom Left Corner)		
X	25.3765	mm
Y	25.4045	mm
Moment of Inertia		
X (I <sub>x</sub> )	1.9575e+5	mm <sup>4</sup>
Y (I <sub>y</sub> )	2.0116e+5	mm <sup>4</sup>
Product Of Inertia (I <sub>xy</sub> )	-6.4745e+4	mm <sup>4</sup>
Radius of Gyration		
X (R <sub>x</sub> )	18.5519	mm
Y (R <sub>y</sub> )	18.8065	mm
Section Modulus		
Bottom X (S <sub>x</sub> )	7,705.3615	mm <sup>3</sup>
X (S <sub>x</sub> )	7,704.7	mm <sup>3</sup>
Left Y (S <sub>y</sub> )	7,927.0897	mm <sup>3</sup>
Y (S <sub>y</sub> )	7,927.8466	mm <sup>3</sup>

Plastic Properties		
Centroid Offset (Elastic Neutral Axis)		
X	0	mm
Y	0	mm
Section Modulus		
X (Z <sub>x</sub> )	9,268.4047	mm <sup>3</sup>
Y (Z <sub>y</sub> )	1.0058e+4	mm <sup>3</sup>

Monosymmetry Constant		
Top Flange In Compression	True	
Monosymmetry Constant (B <sub>x</sub> )	0.0019	mm
Error		

Principal Properties		
Theta	46.1965	deg
Moment of Inertia		
Major	2.6326e+5	mm <sup>4</sup>
Minor	1.3366e+5	mm <sup>4</sup>
Radius of Gyration		
Major (R <sub>xp</sub> )	21.5143	mm
Minor (R <sub>yp</sub> )	15.3295	mm
Section Modulus		
Major Bottom (S <sub>x</sub> )	7,387.6856	mm <sup>3</sup>
Major Top (S <sub>x</sub> )	7,387.0102	mm <sup>3</sup>
Minor Left (S <sub>y</sub> )	3,740.2457	mm <sup>3</sup>
Minor Right (S <sub>y</sub> )	3,740.2564	mm <sup>3</sup>
Plastic Section Modulus		
X (Z <sub>x</sub> )	1.1111e+4	mm <sup>3</sup>
Y (Z <sub>y</sub> )	6,879.0325	mm <sup>3</sup>

Shear Area Properties		
Area		
X (A <sub>sx</sub> )	291.26	mm <sup>2</sup>
Y (A <sub>sy</sub> )	187.591	mm <sup>2</sup>

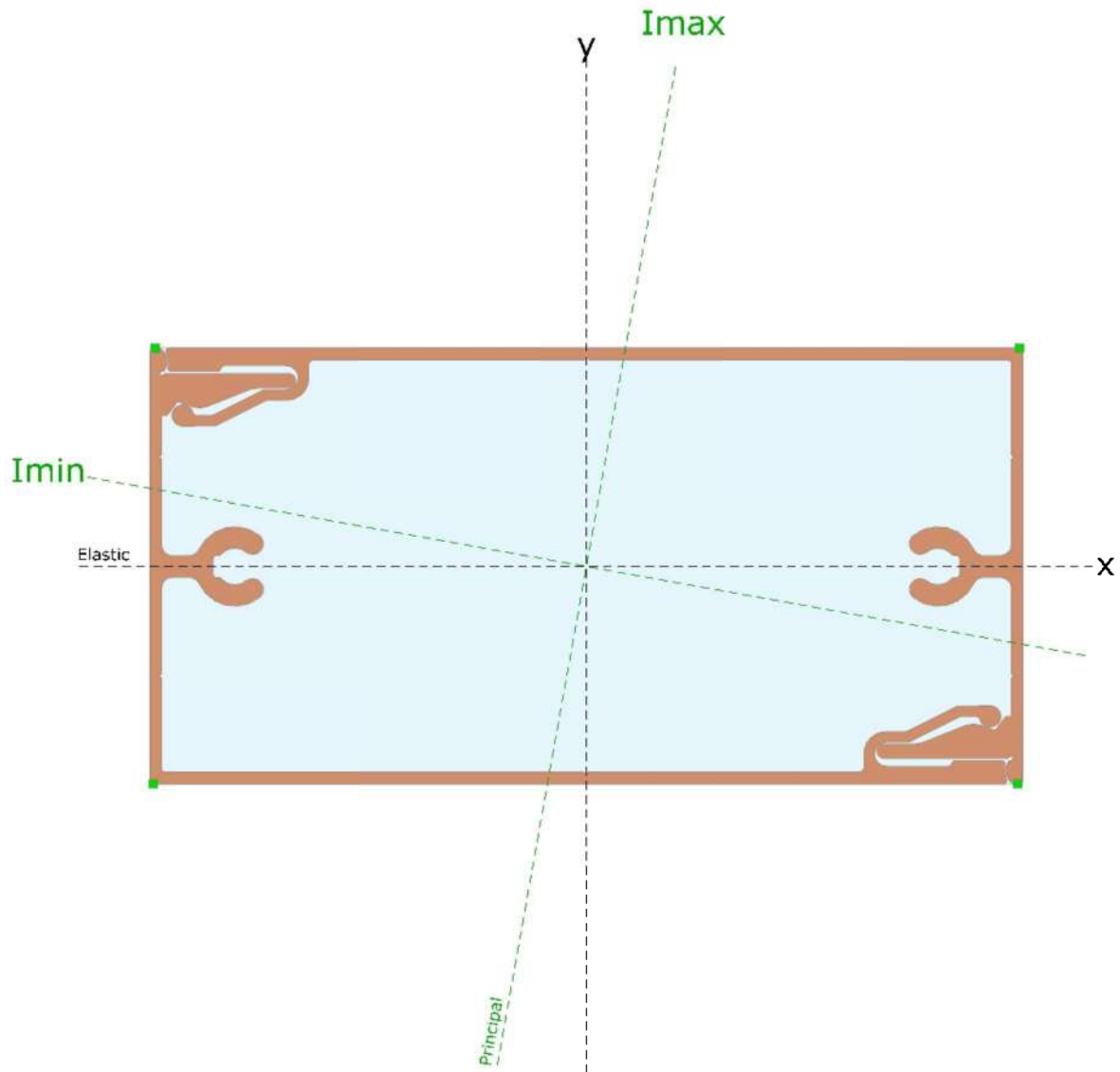
Shear Center Properties		
Centroid Offset (Elastic Neutral Axis)		
X (X <sub>o</sub> )	0.01	mm
Y (Y <sub>o</sub> )	0.0024	mm
Center Offset (Principal Axis)		
X (X <sub>op</sub> )	0.0087	mm
Y (Y <sub>op</sub> )	0.0056	mm

Torsional Constant		
Torsional Constant (J)	1,093.4628	mm <sup>4</sup>

Warping Constant		
Warping Constant (C <sub>w</sub> )	8.4680e+7	mm <sup>6</sup>



Checked By: \_\_\_\_\_



2x4

Checked By: \_\_\_\_\_

Summary		
Name	Layer GEOMETRY	
Reference Material	Steel	

Dimensions		
Width	101.673	mm
Depth	50.8	mm

Geometric Properties		
Perimeter	820.148	mm
Area (A)	694.6284	mm <sup>2</sup>
Mass	5.4541	kg/m
Centroid Offset (Bottom Left Corner)		
X	50.8394	mm
Y	25.3992	mm
Moment of Inertia		
X (I <sub>x</sub> )	2.7417e+5	mm <sup>4</sup>
Y (I <sub>y</sub> )	1.0829e+6	mm <sup>4</sup>
Product Of Inertia (I <sub>xy</sub> )	-1.4923e+5	mm <sup>4</sup>
Radius of Gyration		
X (R <sub>x</sub> )	19.867	mm
Y (R <sub>y</sub> )	39.4837	mm
Section Modulus		
Bottom X (S <sub>x</sub> )	1.0794e+4	mm <sup>3</sup>
X (S <sub>x</sub> )	1.0794e+4	mm <sup>3</sup>
Left Y (S <sub>y</sub> )	2.1300e+4	mm <sup>3</sup>
Y (S <sub>y</sub> )	2.1303e+4	mm <sup>3</sup>

Plastic Properties		
Centroid Offset (Elastic Neutral Axis)		
X	0	mm
Y	0	mm
Section Modulus		
X (Z <sub>x</sub> )	1.2412e+4	mm <sup>3</sup>
Y (Z <sub>y</sub> )	2.5657e+4	mm <sup>3</sup>

Monosymmetry Constant		
Top Flange In Compression	True	
Monosymmetry Constant (B <sub>x</sub> )	-0.0051	mm
Error		

Principal Properties		
Theta	79.872	deg
Moment of Inertia		
Major	1.1096e+6	mm <sup>4</sup>
Minor	2.4751e+5	mm <sup>4</sup>
Radius of Gyration		
Major (R <sub>xp</sub> )	39.9667	mm
Minor (R <sub>yp</sub> )	18.8765	mm
Section Modulus		
Major Bottom (S <sub>x</sub> )	2.0396e+4	mm <sup>3</sup>
Major Top (S <sub>x</sub> )	2.0393e+4	mm <sup>3</sup>
Minor Left (S <sub>y</sub> )	7,305.8146	mm <sup>3</sup>
Minor Right (S <sub>y</sub> )	7,305.701	mm <sup>3</sup>
Plastic Section Modulus		
X (Z <sub>x</sub> )	2.5937e+4	mm <sup>3</sup>
Y (Z <sub>y</sub> )	1.1735e+4	mm <sup>3</sup>

Shear Area Properties		
Area		
X (A <sub>sx</sub> )	363.5908	mm <sup>2</sup>
Y (A <sub>sy</sub> )	160.8115	mm <sup>2</sup>

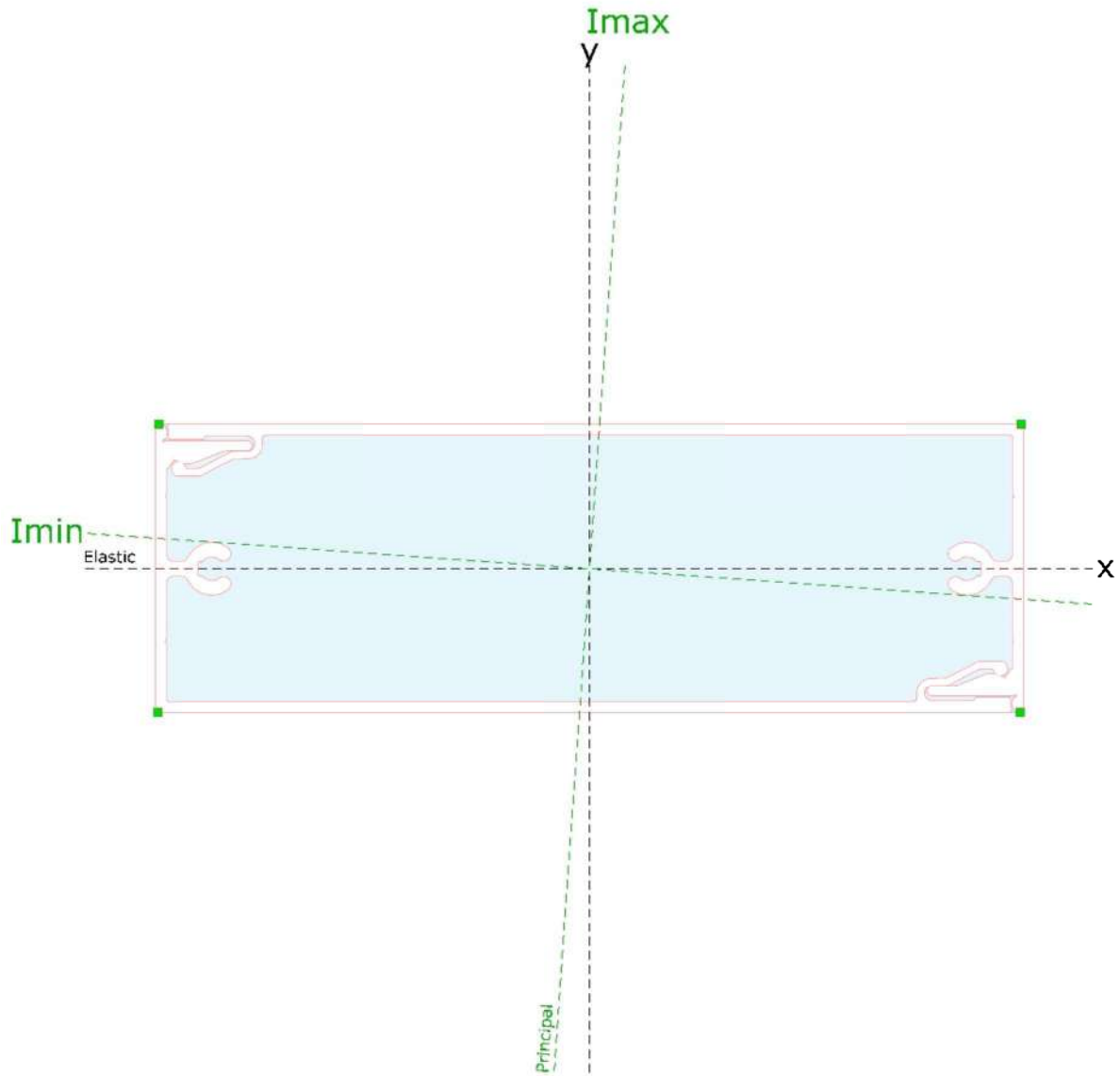
Shear Center Properties		
Centroid Offset (Elastic Neutral Axis)		
X (X <sub>o</sub> )	0.0087	mm
Y (Y <sub>o</sub> )	-0.0002	mm
Center Offset (Principal Axis)		
X (X <sub>op</sub> )	0.0013	mm
Y (Y <sub>op</sub> )	0.0086	mm

Torsional Constant		
Torsional Constant (J)	1,062.7058	mm <sup>4</sup>

Warping Constant		
Warping Constant (C <sub>w</sub> )	5.2232e+8	mm <sup>6</sup>



Checked By: \_\_\_\_\_



2x6

Checked By: \_\_\_\_\_

Summary		
Name	Layer GEOMETRY	
Reference Material	Steel	

Dimensions		
Width	152.706	mm
Depth	50.8	mm

Geometric Properties		
Perimeter	1,017.229	mm
Area (A)	1,010.413	mm <sup>2</sup>
Mass	7.9336	kg/m
Centroid Offset (Bottom Left Corner)		
X	76.3556	mm
Y	25.3995	mm
Moment of Inertia		
X (I <sub>x</sub> )	4.4299e+5	mm <sup>4</sup>
Y (I <sub>y</sub> )	3.2953e+6	mm <sup>4</sup>
Product Of Inertia (I <sub>xy</sub> )	-2.0160e+5	mm <sup>4</sup>
Radius of Gyration		
X (R <sub>x</sub> )	20.9387	mm
Y (R <sub>y</sub> )	57.1079	mm
Section Modulus		
Bottom X (S <sub>x</sub> )	1.7441e+4	mm <sup>3</sup>
X (S <sub>x</sub> )	1.7440e+4	mm <sup>3</sup>
Left Y (S <sub>y</sub> )	4.3157e+4	mm <sup>3</sup>
Y (S <sub>y</sub> )	4.3160e+4	mm <sup>3</sup>

Plastic Properties		
Centroid Offset (Elastic Neutral Axis)		
X	0	mm
Y	0	mm
Section Modulus		
X (Z <sub>x</sub> )	1.9552e+4	mm <sup>3</sup>
Y (Z <sub>y</sub> )	5.2602e+4	mm <sup>3</sup>

Monosymmetry Constant		
Top Flange In Compression	True	
Monosymmetry Constant (B <sub>x</sub> )	-0.0077	mm
Error		

Principal Properties		
Theta	85.977	deg
Moment of Inertia		
Major	3.3094e+6	mm <sup>4</sup>
Minor	4.2881e+5	mm <sup>4</sup>
Radius of Gyration		
Major (R <sub>xp</sub> )	57.2306	mm
Minor (R <sub>yp</sub> )	20.6009	mm
Section Modulus		
Major Bottom (S <sub>x</sub> )	4.2483e+4	mm <sup>3</sup>
Major Top (S <sub>x</sub> )	4.2481e+4	mm <sup>3</sup>
Minor Left (S <sub>y</sub> )	1.3983e+4	mm <sup>3</sup>
Minor Right (S <sub>y</sub> )	1.3983e+4	mm <sup>3</sup>
Plastic Section Modulus		
X (Z <sub>x</sub> )	5.2694e+4	mm <sup>3</sup>
Y (Z <sub>y</sub> )	1.9178e+4	mm <sup>3</sup>

Shear Area Properties		
Area		
X (A <sub>sx</sub> )	616.0297	mm <sup>2</sup>
Y (A <sub>sy</sub> )	190.9322	mm <sup>2</sup>

Shear Center Properties		
Centroid Offset (Elastic Neutral Axis)		
X (X <sub>o</sub> )	0.0041	mm
Y (Y <sub>o</sub> )	-0.0026	mm
Center Offset (Principal Axis)		
X (X <sub>op</sub> )	0.0023	mm
Y (Y <sub>op</sub> )	0.0043	mm

Torsional Constant		
Torsional Constant (J)	1,715.9566	mm <sup>4</sup>

Warping Constant		
Warping Constant (C <sub>w</sub> )	2.1019e+9	mm <sup>6</sup>



# Appendix B

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## Member Checks

**Section Properties (Data from S-Calc)**
**2x2**

$$A_T = 568.76 \text{ mm}^2$$

	Length (mm)	x	Thk (mm)	=	
$A_{web1}$	50.80	x	1.40	=	$70.97 \text{ mm}^2$
$A_{web2}$	50.80	x	1.40	=	$70.97 \text{ mm}^2$

$$\text{Centroid } x = 25.38 \text{ mm}$$

$$\text{Centroid } y = 25.40 \text{ mm}$$

$$R_x = 21.51 \text{ mm}$$

$$R_y = 15.33 \text{ mm}$$

$$S_x = 7387.69 \text{ mm}^3$$

$$S_y = 3740.25 \text{ mm}^3$$

$$I_x = 195750 \text{ mm}^4$$

$$I_y = 201160 \text{ mm}^4$$

**Material Properties**
**Aluminum Alloy 6063-T5**

$$F_y = 145 \text{ MPa}$$

$$F_u = 185 \text{ MPa}$$

$$E = 69000 \text{ MPa}$$

**Design Loads**

$$\text{Wind Load, } W = 4.00 \text{ kPa}$$

$$\text{Importance Factor, } I = 1.00$$

$$\text{Spacing, } s = 0.15 \text{ m}$$

$$W_{\text{factored}} = 1.4W = 0.84 \text{ kN/m}$$

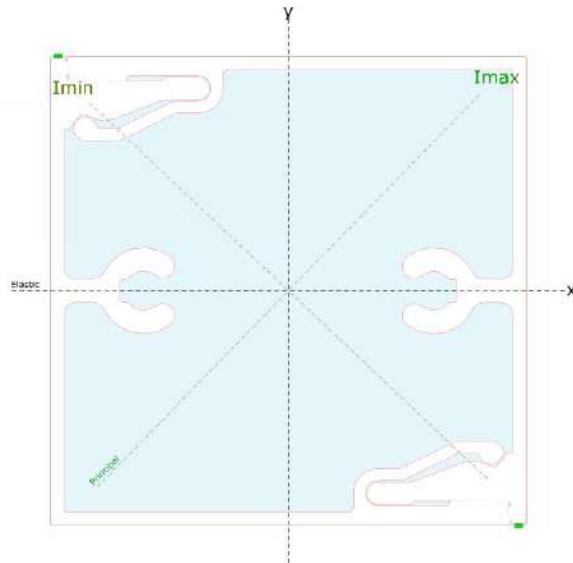
$$W_{\text{specified}} = 1.0W = 0.60 \text{ kN/m}$$

$$\text{Dead Load, } D = 0.008 \text{ kN/m}$$

$$D_{\text{factored}} = 1.25D = 0.01 \text{ kN/m}$$

$$\text{Live Load, } L = 1.00 \text{ kN}$$

$$L_{\text{factored}} = 1.5L = 1.50 \text{ kN}$$





Project #: **49185-100**  
Project Name: **Luxyclad Aluminum Batten System**  
Date: **May 11, 2021**  
Subject: **2x2 Aluminum Battens**

**Check for Bending**

$$h = 1600 \text{ mm} \qquad W = 4.00 \text{ kPa}$$
$$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.17 \text{ kN-m} \qquad M_r = \phi_y S_x F_y = 0.96 \text{ kN-m}$$
$$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 0.60 \text{ kN-m}$$
$$M_f < M_r$$

**OK**

**Check for Shear**

$$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 0.67 \text{ kN} \qquad V_r = \phi_y A_{\text{web}} 0.66 F_y = 12.22 \text{ kN}$$
$$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$$
$$V_f < V_r$$

**OK**

**Check for Deflection**

$$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 3.79 \text{ mm} \qquad \frac{h}{360} = 4.44 \text{ mm}$$
$$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.01 \text{ mm}$$
$$\Delta < h/360$$

**OK**

**Check for Fasteners**

no. of fasteners = 2      fastener size = #12-14      steel thickness = 1.087 mm

$$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.38 \text{ kN} \qquad T_r = 0.64 \text{ kN}$$

(From screw technical data sheet)

$$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.00 \text{ kN} \qquad V_r = 0.99 \text{ kN}$$

(From screw technical data sheet)

$$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.59 < 1$$

**OK**

**Summary**

Size = 2x2  
Spacing = 150 mm  
Specified Wind Load = 4.00 kPa  
Spec. Point Live Load = 1.00 kN  
Length = 1.60 m



Project #: **49185-100**  
 Project Name: **Luxyclad Aluminum Batten System**  
 Date: **May 11, 2021**  
 Subject: **2x2 Aluminum Battens**

**Section Properties (Data from S-Calc)**

2x2

$A_T = 568.76 \text{ mm}^2$

	Length (mm)		Thk (mm)	=	
$A_{web1} =$	50.80	x	1.40	=	70.97 mm <sup>2</sup>
$A_{web2} =$	50.80	x	1.40	=	70.97 mm <sup>2</sup>

Centroid x =	25.38 mm	$R_x =$	21.51 mm
Centroid y =	25.40 mm	$R_y =$	15.33 mm

$S_x = 7387.69 \text{ mm}^3$   
 $S_y = 3740.25 \text{ mm}^3$

$I_x = 195750 \text{ mm}^4$   
 $I_y = 201160 \text{ mm}^4$

**Material Properties**

Aluminum Alloy 6063-T5

$F_y = 145 \text{ MPa}$   
 $F_U = 185 \text{ MPa}$   
 $E = 69000 \text{ MPa}$

**Design Loads**

Wind Load,  $W = 0.25 \text{ kPa}$   
 Importance Factor,  $I = 1.00$   
 Spacing,  $s = 0.15 \text{ m}$

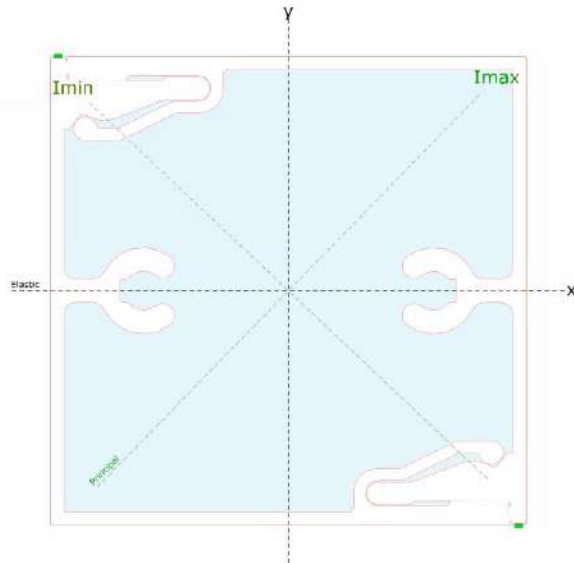
$W_{factored} = 1.4W = 0.05 \text{ kN/m}$   
 $W_{specified} = 1.0W = 0.04 \text{ kN/m}$

Dead Load,  $D = 0.008 \text{ kN/m}$

$D_{factored} = 1.25D = 0.01 \text{ kN/m}$

Live Load,  $L = 1.00 \text{ kN}$

$L_{factored} = 1.5L = 1.50 \text{ kN}$





Project #: **49185-100**  
 Project Name: **Luxyclad Aluminum Batten System**  
 Date: **May 11, 2021**  
 Subject: **2x2 Aluminum Battens**

**Check for Bending**

$$h = 2500 \text{ mm} \qquad W = 0.25 \text{ kPa}$$

$$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.02 \text{ kN-m} \qquad M_r = \phi_y S_x F_y = 0.96 \text{ kN-m}$$

$$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 0.94 \text{ kN-m}$$

$$M_f < M_r$$

**OK**

**Check for Shear**

$$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 0.07 \text{ kN} \qquad V_r = \phi_y A_{\text{web}} 0.66 F_y = 12.22 \text{ kN}$$

$$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$$

$$V_f < V_r$$

**OK**

**Check for Deflection**

$$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 1.41 \text{ mm} \qquad \frac{h}{360} = 6.94 \text{ mm}$$

$$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.02 \text{ mm}$$

$$\Delta < h/360$$

**OK**

**Check for Fasteners**

no. of fasteners = 2      fastener size = #12-14      steel thickness = 1.087 mm

$$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.38 \text{ kN} \qquad T_r = 0.64 \text{ kN}$$

(From screw technical data sheet)

$$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.01 \text{ kN} \qquad V_r = 0.99 \text{ kN}$$

(From screw technical data sheet)

$$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.59 < 1$$

**OK**

**Summary**

Size = 2x2  
 Spacing = 150 mm  
 Specified Wind Load = 0.25 kPa  
 Spec. Point Live Load = 1.00 kN  
 Length = 2.50 m

**Section Properties (Data from S-Calc)**
**2x4**

$$A_T = 694.63 \text{ mm}^2$$

	Length (mm)	x	Thk (mm)	=	
$A_{web1}$	101.60	x	1.40	=	141.94 mm <sup>2</sup>
$A_{web2}$	101.60	x	1.40	=	141.94 mm <sup>2</sup>

$$\text{Centroid } x = 50.84 \text{ mm}$$

$$\text{Centroid } y = 25.40 \text{ mm}$$

$$R_x = 39.97 \text{ mm}$$

$$R_y = 18.88 \text{ mm}$$

$$S_x = 20396.00 \text{ mm}^3$$

$$S_y = 7305.81 \text{ mm}^3$$

$$I_x = 1109600 \text{ mm}^4$$

$$I_y = 247510 \text{ mm}^4$$

**Material Properties**
**Aluminum Alloy 6063-T5**

$$F_y = 145 \text{ MPa}$$

$$F_u = 185 \text{ MPa}$$

$$E = 69000 \text{ MPa}$$

**Design Loads**

$$\text{Wind Load, } W = 4.00 \text{ kPa}$$

$$\text{Importance Factor, } I = 1.00$$

$$\text{Spacing, } s = 0.15 \text{ m}$$

$$W_{\text{factored}} = 1.4W = 0.84 \text{ kN/m}$$

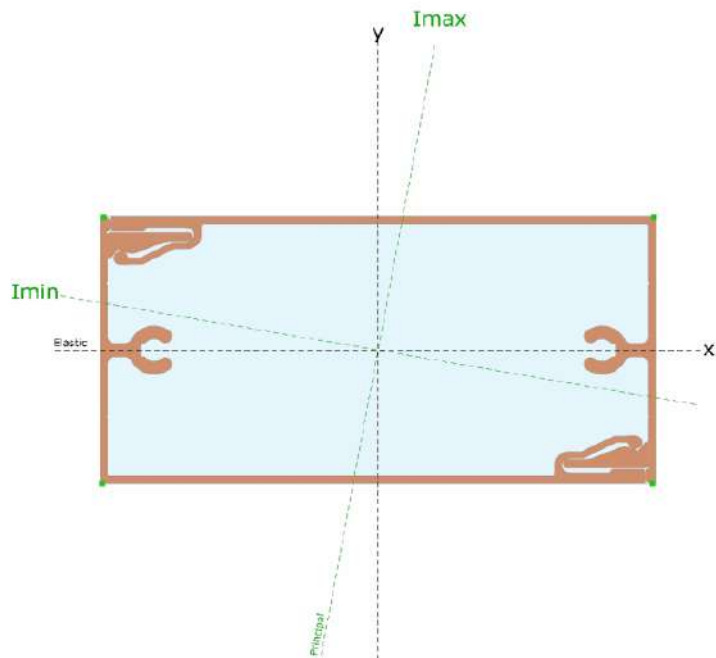
$$W_{\text{specified}} = 1.0W = 0.60 \text{ kN/m}$$

$$\text{Dead Load, } D = 0.010 \text{ kN/m}$$

$$D_{\text{factored}} = 1.25D = 0.01 \text{ kN/m}$$

$$\text{Live Load, } L = 1.00 \text{ kN}$$

$$L_{\text{factored}} = 1.5L = 1.50 \text{ kN}$$





Project #: **49185-100**  
 Project Name: **Luxyclad Aluminum Batten System**  
 Date: **May 11, 2021**  
 Subject: **2x4 Aluminum Battens**

**Check for Bending**

$$h = 3000 \text{ mm} \qquad W = 4.00 \text{ kPa}$$

$$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.32 \text{ kN-m} \qquad M_r = \phi_y S_x F_y = 2.66 \text{ kN-m}$$

$$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 1.13 \text{ kN-m}$$

$$M_f < M_r$$

**OK**

**Check for Shear**

$$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 1.26 \text{ kN} \qquad V_r = \phi_y A_{\text{web}} 0.66 F_y = 24.45 \text{ kN}$$

$$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$$

$$V_f < V_r$$

**OK**

**Check for Deflection**

$$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 8.27 \text{ mm} \qquad \frac{h}{360} = 8.33 \text{ mm}$$

$$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.01 \text{ mm}$$

$$\Delta < h/360$$

**OK**

**Check for Fasteners**

no. of fasteners = 2      fastener size = #12-14      steel thickness = 1.087 mm

$$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.63 \text{ kN} \qquad T_r = 0.64 \text{ kN}$$

(From screw technical data sheet)

$$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.01 \text{ kN} \qquad V_r = 0.99 \text{ kN}$$

(From screw technical data sheet)

$$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.99 < 1$$

**OK**

**Summary**

Size = 2x4  
 Spacing = 150 mm  
 Specified Wind Load = 4.00 kPa  
 Spec. Point Live Load = 1.00 kN  
 Length = 3.00 m

**Section Properties (Data from S-Calc)**
**2x4**

$$A_T = 694.63 \text{ mm}^2$$

	Length (mm)	x	Thk (mm)	=	
$A_{web1}$	101.60	x	1.40	=	141.94 mm <sup>2</sup>
$A_{web2}$	101.60	x	1.40	=	141.94 mm <sup>2</sup>

$$\text{Centroid } x = 50.84 \text{ mm}$$

$$\text{Centroid } y = 25.40 \text{ mm}$$

$$R_x = 39.97 \text{ mm}$$

$$R_y = 18.88 \text{ mm}$$

$$S_x = 20396.00 \text{ mm}^3$$

$$S_y = 7305.81 \text{ mm}^3$$

$$I_x = 1109600 \text{ mm}^4$$

$$I_y = 247510 \text{ mm}^4$$

**Material Properties**
**Aluminum Alloy 6063-T5**

$$F_y = 145 \text{ MPa}$$

$$F_u = 185 \text{ MPa}$$

$$E = 69000 \text{ MPa}$$

**Design Loads**

$$\text{Wind Load, } W = 0.25 \text{ kPa}$$

$$\text{Importance Factor, } I = 1.00$$

$$\text{Spacing, } s = 0.15 \text{ m}$$

$$W_{\text{factored}} = 1.4W = 0.05 \text{ kN/m}$$

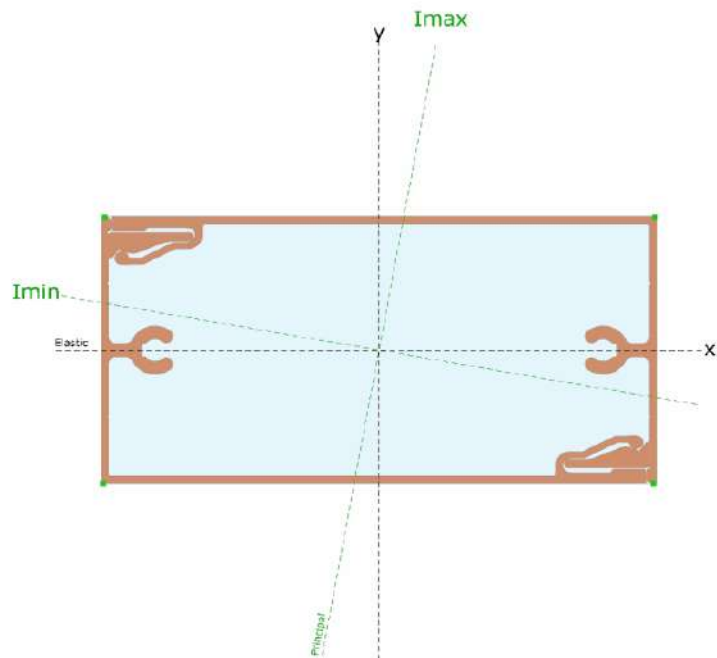
$$W_{\text{specified}} = 1.0W = 0.04 \text{ kN/m}$$

$$\text{Dead Load, } D = 0.010 \text{ kN/m}$$

$$D_{\text{factored}} = 1.25D = 0.01 \text{ kN/m}$$

$$\text{Live Load, } L = 1.00 \text{ kN}$$

$$L_{\text{factored}} = 1.5L = 1.50 \text{ kN}$$





Project #: **49185-100**  
Project Name: **Luxyclad Aluminum Batten System**  
Date: **May 11, 2021**  
Subject: **2x4 Aluminum Battens**

**Check for Bending**

$$h = 7000 \text{ mm} \qquad W = 0.25 \text{ kPa}$$
$$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.05 \text{ kN-m} \qquad M_r = \phi_y S_x F_y = 2.66 \text{ kN-m}$$
$$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 2.63 \text{ kN-m}$$
$$M_f < M_r$$

**OK**

**Check for Shear**

$$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 0.18 \text{ kN} \qquad V_r = \phi_y A_{\text{web}} 0.66 F_y = 24.45 \text{ kN}$$
$$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$$
$$V_f < V_r$$

**OK**

**Check for Deflection**

$$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 15.31 \text{ mm} \qquad \frac{h}{360} = 19.44 \text{ mm}$$
$$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.09 \text{ mm}$$
$$\Delta < h/360$$

**OK**

**Check for Fasteners**

no. of fasteners = 2      fastener size = #12-14      steel thickness = 1.087 mm

$$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.38 \text{ kN} \qquad T_r = 0.64 \text{ kN}$$

(From screw technical data sheet)

$$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.02 \text{ kN} \qquad V_r = 0.99 \text{ kN}$$

(From screw technical data sheet)

$$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.60 < 1$$

**OK**

**Summary**

Size = 2x4  
Spacing = 150 mm  
Specified Wind Load = 0.25 kPa  
Spec. Point Live Load = 1.00 kN  
Length = 7.00 m

**Section Properties (Data from S-Calc)**

2x6

$$A_T = 1017.23 \text{ mm}^2$$

	Length (mm)	x	Thk (mm)	=	
$A_{web1}$	152.40		1.40	=	212.90 mm <sup>2</sup>
$A_{web2}$	152.40		1.40	=	212.90 mm <sup>2</sup>

Centroid x =	76.36 mm	$R_x =$	57.23 mm
Centroid y =	25.40 mm	$R_y =$	20.60 mm

$$S_x = 42483.00 \text{ mm}^3$$

$$S_y = 13983.00 \text{ mm}^3$$

$$I_x = 3309400 \text{ mm}^4$$

$$I_y = 428810 \text{ mm}^4$$

**Material Properties**

Aluminum Alloy 6063-T5

$$F_y = 145 \text{ MPa}$$

$$F_U = 185 \text{ MPa}$$

$$E = 69000 \text{ MPa}$$

**Design Loads**

$$\text{Wind Load, } W = 4.00 \text{ kPa}$$

$$\text{Importance Factor, } I = 1.00$$

$$\text{Spacing, } s = 0.15 \text{ m}$$

$$W_{\text{factored}} = 1.4W = 0.84 \text{ kN/m}$$

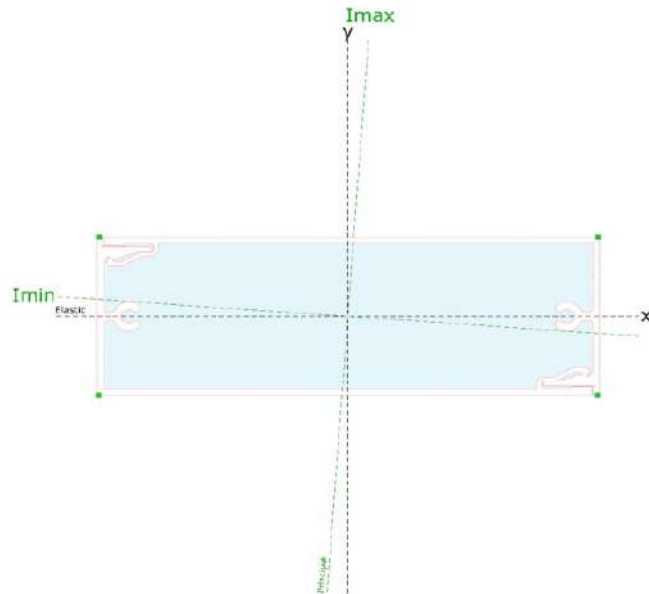
$$W_{\text{specified}} = 1.0W = 0.60 \text{ kN/m}$$

$$\text{Dead Load, } D = 0.014 \text{ kN/m}$$

$$D_{\text{factored}} = 1.25D = 0.02 \text{ kN/m}$$

$$\text{Live Load, } L = 1.00 \text{ kN}$$

$$L_{\text{factored}} = 1.5L = 1.50 \text{ kN}$$





Project #: **49185-100**  
Project Name: **Luxyclad Aluminum Batten System**  
Date: **May 11, 2021**  
Subject: **2x6 Aluminum Battens**

**Check for Bending**

$$h = 3000 \text{ mm} \qquad W = 4.00 \text{ kPa}$$
$$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.32 \text{ kN-m} \qquad M_r = \phi_y S_x F_y = 5.54 \text{ kN-m}$$
$$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 1.13 \text{ kN-m}$$
$$M_f < M_r$$

**OK**

**Check for Shear**

$$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 1.26 \text{ kN} \qquad V_r = \phi_y A_{\text{web}} 0.66 F_y = 36.67 \text{ kN}$$
$$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$$
$$V_f < V_r$$

**OK**

**Check for Deflection**

$$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 2.77 \text{ mm} \qquad \frac{h}{360} = 8.33 \text{ mm}$$
$$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.00 \text{ mm}$$
$$\Delta < h/360$$

**OK**

**Check for Fasteners**

no. of fasteners = 2      fastener size = #12-14      steel thickness = 1.087 mm

$$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.63 \text{ kN} \qquad T_r = 0.64 \text{ kN}$$

(From screw technical data sheet)

$$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.01 \text{ kN} \qquad V_r = 0.99 \text{ kN}$$

(From screw technical data sheet)

$$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.99 < 1$$

**OK**

**Summary**

Size = 2x6  
Spacing = 150 mm  
Specified Wind Load = 4.00 kPa  
Spec. Point Live Load = 1.00 kN  
Length = 3.00 m

**Section Properties (Data from S-Calc)**

2x6

$$A_T = 1017.23 \text{ mm}^2$$

	Length (mm)	x	Thk (mm)	=	
$A_{web1}$	152.40	x	1.40	=	212.90 mm <sup>2</sup>
$A_{web2}$	152.40	x	1.40	=	212.90 mm <sup>2</sup>

Centroid x =	76.36 mm	$R_x =$	57.23 mm
Centroid y =	25.40 mm	$R_y =$	20.60 mm

$$S_x = 42483.00 \text{ mm}^3$$

$$S_y = 13983.00 \text{ mm}^3$$

$$I_x = 3309400 \text{ mm}^4$$

$$I_y = 428810 \text{ mm}^4$$

**Material Properties**

Aluminum Alloy 6063-T5

$$F_y = 145 \text{ MPa}$$

$$F_U = 185 \text{ MPa}$$

$$E = 69000 \text{ MPa}$$

**Design Loads**

$$\text{Wind Load, } W = 0.25 \text{ kPa}$$

$$\text{Importance Factor, } I = 1.00$$

$$\text{Spacing, } s = 0.15 \text{ m}$$

$$W_{\text{factored}} = 1.4W = 0.05 \text{ kN/m}$$

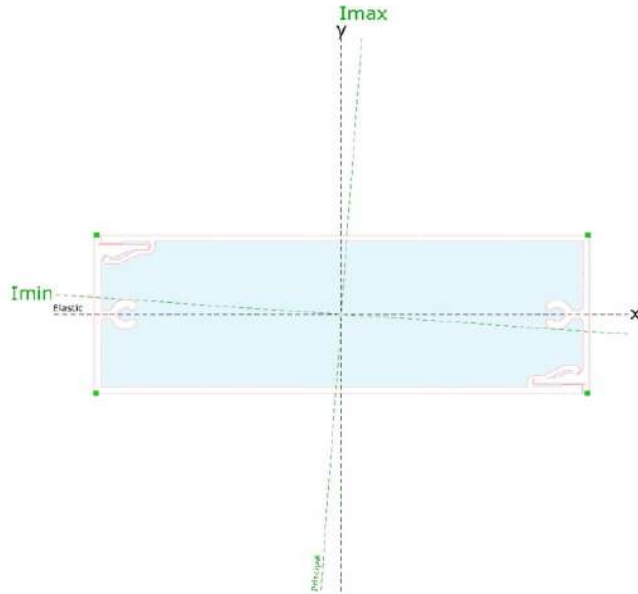
$$W_{\text{specified}} = 1.0W = 0.04 \text{ kN/m}$$

$$\text{Dead Load, } D = 0.014 \text{ kN/m}$$

$$D_{\text{factored}} = 1.25D = 0.02 \text{ kN/m}$$

$$\text{Live Load, } L = 1.00 \text{ kN}$$

$$L_{\text{factored}} = 1.5L = 1.50 \text{ kN}$$





Project #: **49185-100**  
 Project Name: **Luxyclad Aluminum Batten System**  
 Date: **May 11, 2021**  
 Subject: **2x6 Aluminum Battens**

**Check for Bending**

$h = 7300 \text{ mm}$

$W = 0.25 \text{ kPa}$

$M_{f1} = \frac{W_{\text{factored}}(h^2)}{8} = 0.05 \text{ kN-m}$

$M_r = \phi_y S_x F_y = 5.54 \text{ kN-m}$

$M_{f2} = \frac{L_{\text{factored}}(h^2)}{4} = 2.74 \text{ kN-m}$

$M_f < M_r$   
OK

**Check for Shear**

$V_{f1} = \frac{W_{\text{factored}}(h)}{2} = 0.19 \text{ kN}$

$V_r = \phi_y A_{\text{web}} 0.66 F_y = 36.67 \text{ kN}$

$V_{f2} = \frac{L_{\text{factored}}}{2} = 0.75 \text{ kN}$

$V_f < V_r$   
OK

**Check for Deflection**

$\Delta_w = \frac{5(W_{\text{specified}})(h^4)}{384EI_x} = 6.07 \text{ mm}$

$\frac{h}{360} = 20.28 \text{ mm}$

$\Delta_L = \frac{(L)(h^3)}{48EI_x} = 0.04 \text{ mm}$

$\Delta < h/360$   
OK

**Check for Fasteners**

no. of fasteners = 2

fastener size = #12-14

steel thickness = 1.087 mm

$T_f = \frac{V_f}{\text{no. of fasteners}} = 0.38 \text{ kN}$

$T_r = 0.64 \text{ kN}$   
(From screw technical data sheet)

$V_f = \frac{D_{\text{factored}}(h)}{2(\text{no. of fasteners})} = 0.03 \text{ kN}$

$V_r = 0.99 \text{ kN}$   
(From screw technical data sheet)

$\frac{T_f}{T_r} + \frac{V_f}{V_r} = 0.61 < 1$   
OK

**Summary**

Size = 2x6  
 Spacing = 150 mm  
 Specified Wind Load = 0.25 kPa  
 Spec. Point Live Load = 1.00 kN  
 Length = 7.30 m

# Appendix C

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## Product Data Sheet

PER ER#523260-1

CUSTOMER NUMBER

AREA 0.442 IN<sup>2</sup>

ALLOY: 6063 T5

WEIGHT 0.521 LBS/FT

 - CRITICAL DIMENSIONS

PERIMETER OUT. 12.1 IN

PERIMETER INS. 0 IN

CCD 2.762 IN

SolidWorks

SCALE 1:1

DATE

DRAWN BY

DIE TYPE

DIE SIZE

BACKER

BOLSTER

SUB BOLSTER

LEAD IN PLATE

NO. OF HOLES

RACK NO.

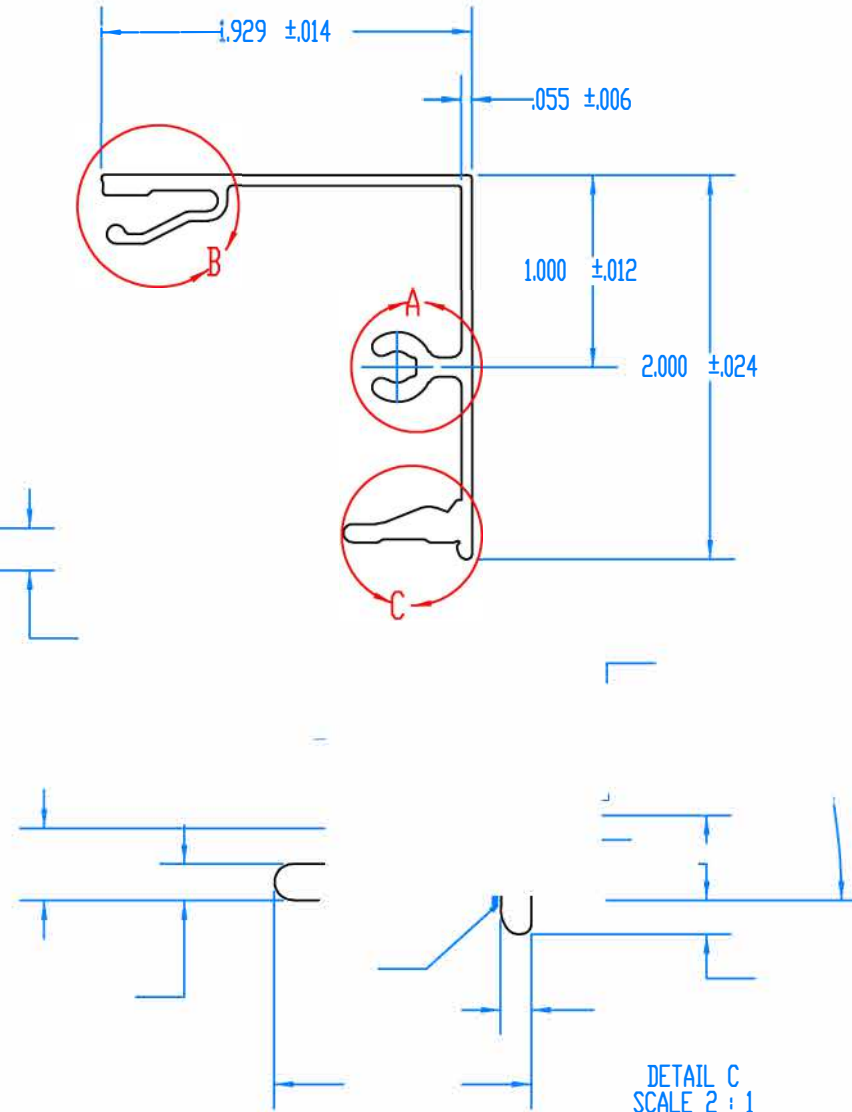
PRINT APPROVAL

SHOWN

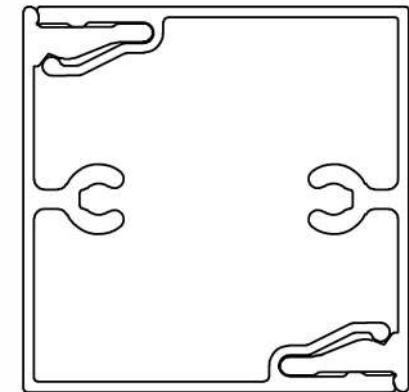
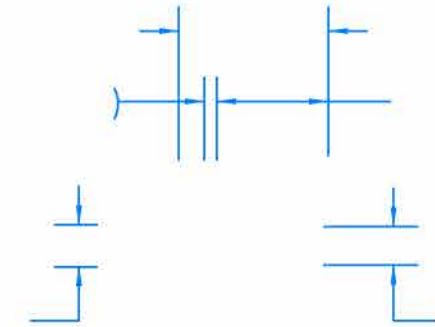
\*\* - PRECISION TOLERANCE  
\*\*\* - TIGHTER THAN PRECISION TOLERANCE  
UNLESS OTHERWISE NOTED ALL ANGLES ARE ±1°  
UNLESS OTHERWISE NOTED ALUMINUM ASSOCIATION TOLERANCES APPLY

TITLE 2' x 2' Snap Baffle

DATE



DETAIL C  
SCALE 2 : 1



OUTSIDE VISUAL B

ER #523260-1

PROPOSAL NO.

X34054-5

BY

DATE

REVISION

NO. REV.

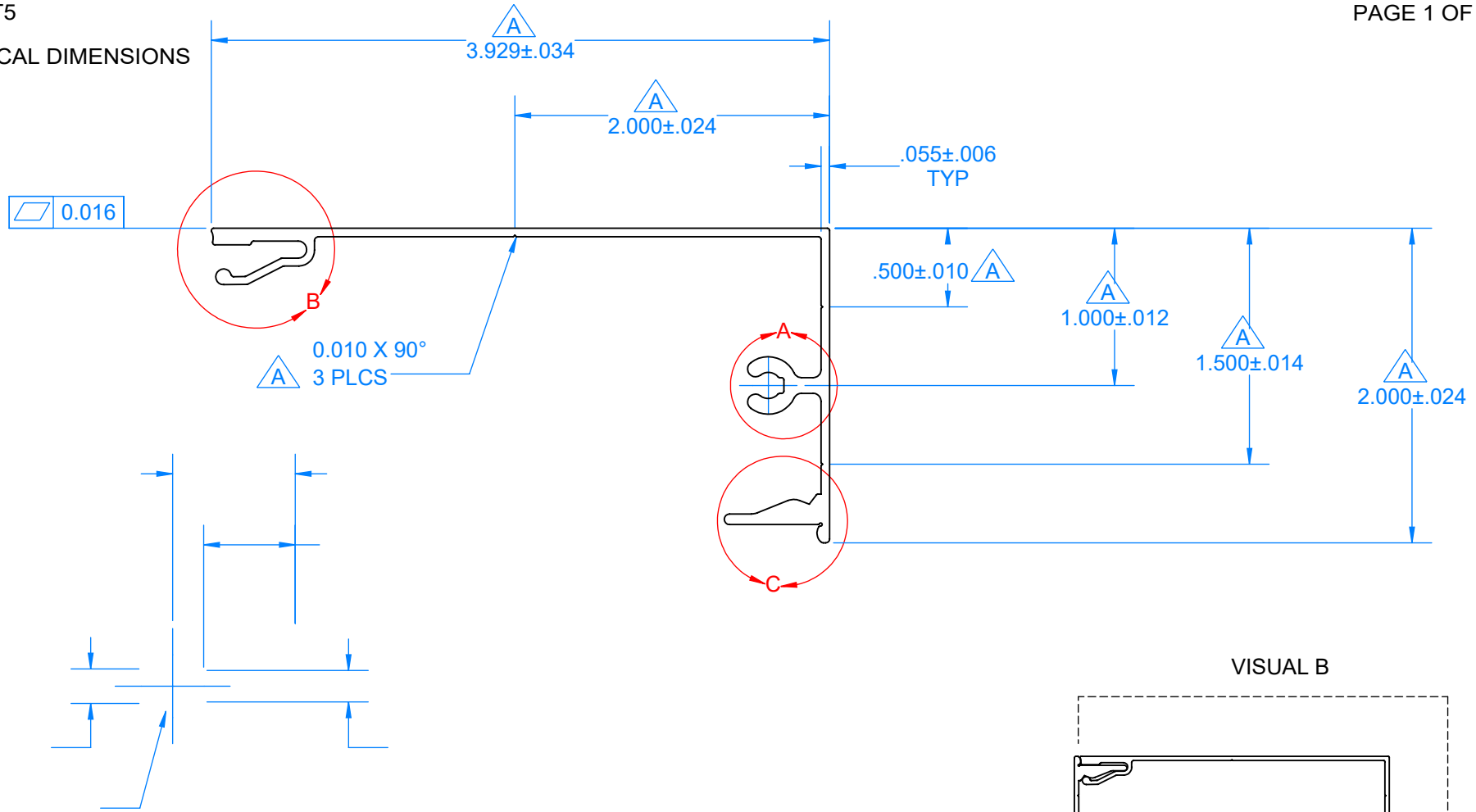
SHEET SIZE 8.5in\*14in

CUSTOMER NUMBER

AREA	0.539 IN^2
WEIGHT	0.636 LBS/FT
PERIMETER	OUT. 16.155 IN
	INS. NA
CCD	4.395 IN

ALLOY: 6063 T5

 - CRITICAL DIMENSIONS



SolidWorks

SCALE 1:1

DATE

DRAWN BY

DIE TYPE

DIE SIZE

BACKER

BOLSTER

SUB BOLSTER

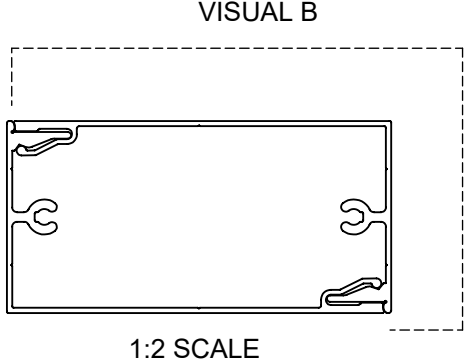
LEAD IN PLATE

NO. OF HOLES

RACK NO.

PRINT APPROVAL

\*\* - PRECISION TOLERANCE  
 \*\*\* - TIGHTER THAN PRECISION TOLERANCE  
 UNLESS OTHERWISE NOTED ALL ANGLES ARE ±1°  
 UNLESS OTHERWISE NOTED ALUMINUM ASSOCIATION TOLERANCES APPLY



1:2 SCALE

ER #526769-1 PROPOSAL NO. NO. REV. A

DATE

TITLE **2"x4" Snap Baffle**

SHEET SIZE 8.5in\*14in

CUSTOMER NUMBER

AREA 0.784 IN^2

WEIGHT 0.925 LBS/FT

PERIMETER OUT. 20.035 IN

INS. NA

CCD 6.247 IN

SolidWorks

SCALE 1:1

DATE

DRAWN BY

DIE TYPE

DIE SIZE

BACKER

BOLSTER

SUB BOLSTER

LEAD IN PLATE

NO. OF HOLES

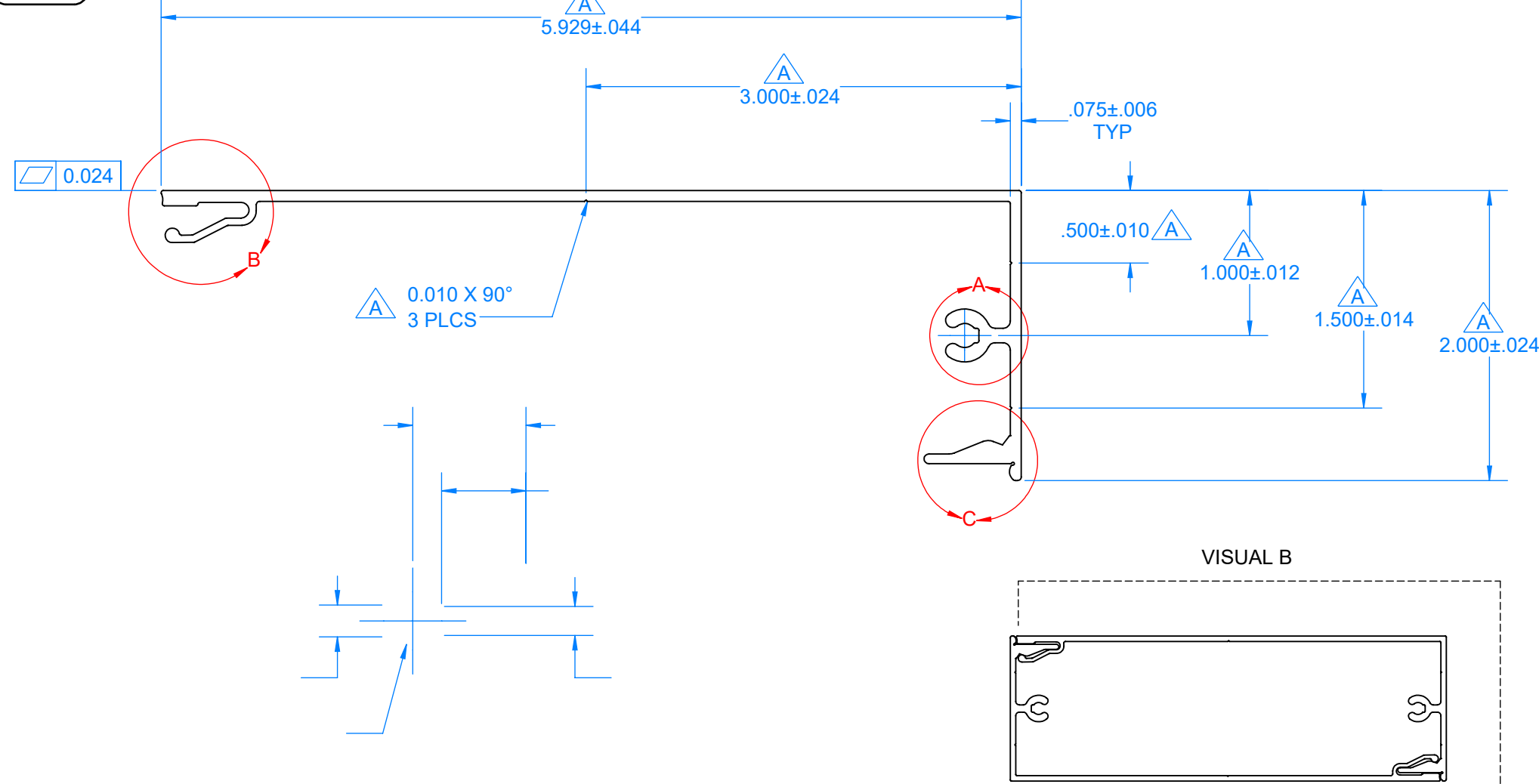
RACK NO.

PRINT APPROVAL

DATE

ALLOY: 6063 T5

 - CRITICAL DIMENSIONS



\*\* - PRECISION TOLERANCE  
 \*\*\* - TIGHTER THAN PRECISION TOLERANCE  
 UNLESS OTHERWISE NOTED ALL ANGLES ARE ±1°  
 UNLESS OTHERWISE NOTED ALUMINUM ASSOCIATION TOLERANCES APPLY

1:2 SCALE

ER #526769-2

PROPOSAL NO.

TITLE **2"x6" Snap Baffle**

SHEET SIZE 8.5in\*14in

				BY
				DATE
				REVISION
				NO. REV.