Product Submittal Sheet

Sales 631-750-3000
monarchmetal.com

Vertical Single Wall Bracket – 4”
(Horizontal Loads Only)

Product Category	Cladding
Product Name	VWB-04
Material	6061-T6 Aluminum
Finish	N/A

Geometric Properties

Depth	3.875 in
Design Thickness (Back Flange)	0.150 in
Design Thickness (Front Flange)	0.140 in
Length	3.250 in
Yield strength, Fy	35.0 ksi
Ultimate strength, Fu	38.0 ksi

Local Section Properties of Front Flange

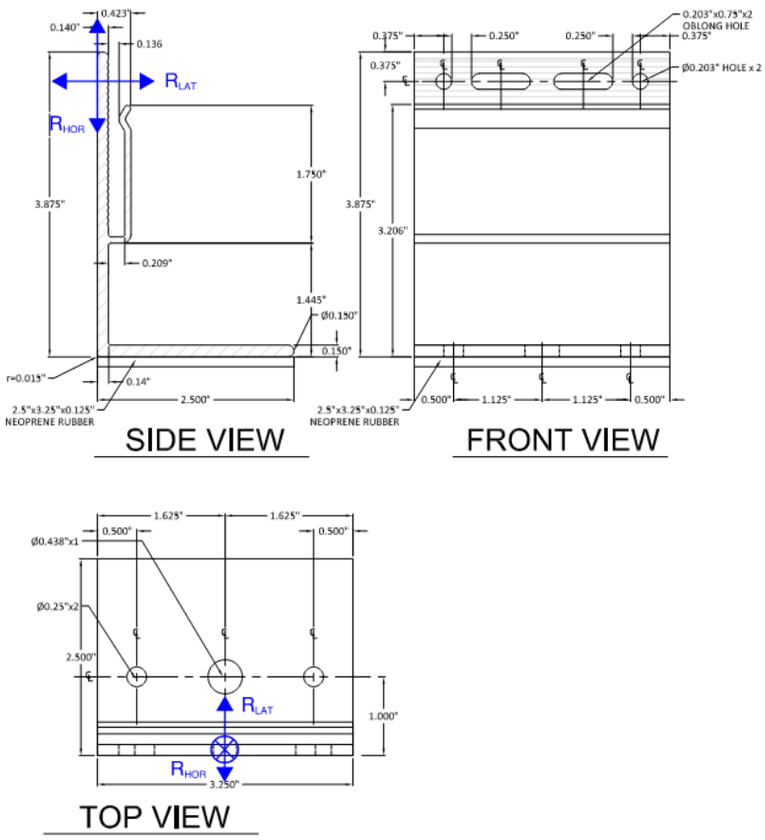
Moment of inertia (Ix)	7.43×10^{-4} in(^4)
Section Modulus (Sx)	1.06×10^{-2} in(^3)
Maximum Reaction (R_{LAT})	93 lbf

Local Section Properties of Back Flange

Moment of inertia (Ix)	9.14×10^{-4} in(^4)
Section Modulus (Sx)	1.22×10^{-2} in(^3)
Maximum Reaction (R_{LAT})	387 lbf

Critical: A reduction in maximum reaction is necessary if the vertical bracket experiences horizontal and lateral reactions simultaneously. Please consult Monarch Metal if this occurs.

The above reactions are based on the allowable flexural capacity of the bracket flanges.



Product Data & Ordering Information:

Packaging	Custom Pallet
Packaging weight	Custom

ASTM & Code Standards:

- Material strengths per 2015 Aluminum Design Manual
- Reactions based on Allowable Stress Design (ASD) Loading and Safety Factors

Allowable Spans for Brackets

- Allowable spans for brackets will depend upon the conditions of the installation including, but not limited to, the substrate the brackets are attaching to, the panel composition, the fasteners selected and the wind conditions. Please consult a structural engineer for additional information.
- Monarch Metal provides typical as well as thermally isolated substructure.
- Allowable deflection dependent on project specifications, building codes and/or cladding material
- Please consult a structural engineer for additional information.

Sustainability Credits: For more details and LEED letters contact 631-750-3000

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone: