

WHY ALUMINIUM ?



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Manson Engineering began as a marina component fabricator nearly three decades ago and is now a premier bridge manufacturer and custom Aluminium fabricator. Throughout our long history, we expanded our team and our line of products to include the highest performance aluminium structures to span land as well as water.

We have the staff and knowledge to build our bridges out of any of the traditional bridge materials. However, Manson Engineering continues to choose aluminium as our primary structure material. We truly believe that our aluminium bridge designs have the best combination of characteristics to achieve the longest-lasting, highest performance pedestrian and utility bridges.

If you are not familiar with the benefits of building structures out of aluminium, check out this impressive list below:

High Strength to Weight Ratio

Aluminium is about a third the weight of steel yet it has a higher load bearing capacity than steel when compared kilogram to kilogram. This results in a higher performance bridge with lower transportation and installation costs.

No Maintenance Required and Long Lasting

Due to aluminium's natural protective coating and corrosion resistance, maintenance budgets for the long life span of an aluminium bridge are reduced or, in many cases, eliminated.

Lower Cost of Ownership

When evaluating the competitive material cost of the bridge, transportation costs, installation costs, maintenance costs, long service life, and recycled value an Aluminium bridge has a substantially lower total cost of ownership than a steel bridge



The Arvida Bridge, in Quebec, Canada was the first transport bridge in the world constructed in Aluminium in 1950. This bridge is still in use today.

Non-Corrosive

Aluminium naturally produces a protective oxide that coats the exterior and regenerates when scratched. This oxide layer is highly corrosion resistant which minimizes maintenance costs as well as preserves the aesthetically pleasing, rust-free appearance while remaining cool to the touch all year round

Recyclable & Eco-Friendly

Our structures are 100% recyclable. Additionally, aluminium does not require toxic coatings to prevent corroding and flaking. If your project is concerned with minimal carbon imprint or installation footprint, Manson Engineering has your solution. Aluminium is infinitely recyclable – meaning it can be recycled again and again and again...You get the point. Mostly due to this fact, Aluminium is one of the most abundant materials on the planet.

Anywhere and Everywhere

The fact that we make our bridges out of aluminium solves the problems most often encountered when taking on a bridge project such as saltwater exposure and poor site access. Our bridges have even been helicoptered or carried into limited access areas.

Ease Installation

Since an aluminium bridge will weigh far less than a steel bridge, transportation costs and carbon emissions are minimized. Additionally, smaller equipment, smaller abutments, and less labor are needed to install our bridges. Installation time is often a fraction of other material structures.

Variety of Design Options

An Aluminium bridge can be designed to match any aesthetic, including a modern, industrial, vintage, or natural look. Manson Engineering offers various material and colour cladding options.