



Advantages of Owning A Timpte Aluminum Trailer: Lightweight, Durable, Smart

In the world of transportation, it's important to choose the right trailer for the task at hand. For years there's been a debate between aluminum and steel trailers, and which material provides the best performance. When deciding between an aluminum or steel trailer, there are quite a few things to take into consideration. Let's take a moment to see what makes aluminum trailers stand out.

Metallurgy

It's important to understand when we compare steel and aluminum trailers, we are comparing "Aluminum Alloy" against "Steel Alloy" trailers. An alloy is a metal made by combining two or more metallic elements to give greater strength or resistance to corrosion. We'll look at Timpte's aluminum alloy and see how it matches up against steel alloys of other manufacturers, but before we get started, let's define a few key terms.

- Corrosion: Metal or other materials damaged or even destroyed by slow chemical action.
- Density: The Mass of a substance per unit of volume.
- · Strength-to-Weight Ratio: Measure of the strength of an object divided by its mass or weight.

Material	Aluminum 6061-T6	Steel HSLA 50	Steel HSLA 60	Steel HSLA 80
Density (lb/in³)	0.098	0.284	0.280	0.282
Strength-to-Weight Ratio (in.)	409,081	176,056	214,286	283,688
Corrosion	Resistant	Prone	Prone	Prone

/ Takeaways			
Density Aluminum is 1/3 the density of steel making it a lighter material.	Strength-to-Weight Ratio Aluminum's strength to weight ratio is considerably higher than steel.	Corrosion Aluminum is highly resistant to rust and corrosion. Even	
Aluminum Steel	Aluminum Steel	after being exposed to harsh weather conditions.	

Lightweight Material

Aluminum is a lightweight and durable material. At roughly 1/3 the density of steel, aluminum's low profile can provide benefits that its steel counterparts cannot.





Durability

Part of what makes aluminum so durable is its resistance to corrosion. Durability plays an important role in aluminum trailers holding their value over time. Aluminum trailers can stay looking and performing like new.

Resistance to Corrosion

- Aluminum alloy extrusions generally do not rust because aluminum forms a protective oxide layer when exposed to air, preventing corrosion.
 - Even after being exposed to harsh weather conditions.
 - Avoid costly repairs from rust related issues.



Minimal Maintenance & Repairs

- Only routine maintenance is required.
- Less likely to sustain costly damage over time.
- Easily restore the exterior of your trailer with an acid wash to keep that shiny new look.

Higher Resale Value

• The durability of an aluminum trailer helps to preserve its value over time. It's simple, a used trailer in good condition is worth more than one that is damaged or starting to rust.

Timpte's Superior Construction Methods

Most aluminum trailer manufacturers rely on welding joints which can weaken the integrity of the trailer by up to 40%. Instead, Timpte uses proprietary extruded aluminum components and mechanically fastened joints to provide a much more rugged and durable construction. By building our trailers using mechanically fastened joints we can achieve maximum strength, durability, and longevity out of the aluminum. Unlike welding, which allows for more variance in components, Timpte's method demands meticulous craftsmanship, drilling, and careful part coordination.



Save Money Long-term

It's no secret that the initial cost for an aluminum trailer is often higher than steel. However, being lightweight and durable gives aluminum trailers additional benefits over steel, and a lot of these benefits come with hidden cost savings.

Did you notice this symbol (S) anywhere?

This symbol represents the benefits of aluminum that save you money over time. Let's recap the hidden cost savings:

S Increased Fuel Economy	S Higher Resale Value
S Easier on Your Vehicle	S Fewer Repairs
S Resistance to Corrosion	S Minimal Maintenance

If you're looking for a new trailer, invest in one that pays you back.

Timpte's All-Aluminum Trailers

Being lightweight, durable, and a smart long-term investment makes aluminum trailers a popular choice for anyone in the market for a new trailer.

In 2024, Timpte celebrates our 140th year in business. We've backed our trailers with superior construction methods to provide you with peace of mind regarding your trailer's durability. You will not find a better designed and constructed aluminum trailer in North America.

See For Yourself

Don't just take our word for it. See for yourself how Timpte trailers are changing the industry. Reach out to your Timpte representative and request a trailer walk-around today!