

Transport Autos More Sustainably

Railcar aerodynamics play a crucial role in improving the performance and efficiency of trains. Greenbrier's innovative auto rack designs are engineered to enhance aerodynamic performance.

THE INDUSTRY LEADER OF AERODYNAMIC RAILCARS, DRIVING EFFICIENCY INTO THE FUTURE

CONNECTING COMPONENTS

The connecting areas are designed for smooth airflow between railcars, reducing disruptions and improving the overall aerodynamics of a train and increased **Payload Capacity**



ROOF AND SIDE PANELS

The shape reduces air resistance for better **Overall Efficiency**; a smooth roof design and "aero screens" are also available for additional aerodynamic improvement

DOOR AND LADDER

The patented interior ladder door design has a less aerodynamic drag than the exterior ladder design, creating a significant **Fuel Savings**

SEALED UNDERCARRIAGE

Minimizes the air entering and exiting—reducing lift and drag forces, enhancing overall stability for **Improved Safety**



Environmental Impact

Lowered drag helps decrease carbon footprint of rail transportation, making it an even more eco-friendly mode of transport.



Braking Efficiency

Enhanced braking system efficiency reduces component wear and tear.



Stability and Handling

Improves the stability and handling of railcars, making them safer to operate.



Improved Fuel Efficiency

Streamlined railcar designs enhance fuel efficiency, which is essential for cost savings and environmental sustainability.



Reduced Air Resistance

Efficient railcar design minimizes air resistance or drag. This is achieved through streamlined shapes, minimizing protrusions and optimizing the railcar's frontal area.



Safety

Proper railcar aerodynamics can contribute to the safety of rail travel by improving stability, handling and reducing derailment risk.



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