



Green Wing, Aerodynamic side skirts by ridge corporation

ABOUT GREEN WING® & RIDGE CORPORATION

Ridge Corporation is an innovative company using the most advanced technologies available to produce lining systems for the trailer and truck body industries. Using high-performance thermoplastic composites coupled with our thermoforming capabilities, Ridge delivers a wide variety of lining solutions that now extends to a money-saving, aerodynamic skirt appropriately called Green Wing[®].

As with all Ridge products, Green Wing® fairings combine exceptional quality and performance with industry proven, recyclable materials. The unique lightweight composition of Green Wing® allows it to take a hit and bounce back to its flat, aerodynamic position that delivers SmartWay verified fuel efficiency. The introduction of Green Wing® is just the latest example of how Ridge creates the next generation of high-performance, cost-effective products that exceed customer expectations while remaining grounded in solid manufacturing techniques.

GREEN WING'S ONE-TWO PUNCH

The upper portion of the Green Wing[®] skirt incorporates a 90 degree bent flange for stiffness and ease of installation. The 90 degree flange reduces the number of fasteners needed equating to shortened installation times.

Green Wing[®] struts are manufactured from the same durable components used in the side skirt material. Unlike other thermoplastic components, Ridge struts are engineered to produce predictable deflection modes that provide stiffness and reduce failure in bending.

GREEN WING® FACTS

Wooden floor shown

- SmartWay verified
- Easy installation
- Best value = shortest ROI
- Durable design
- Recyclable
- No oil canning due to
- temperature fluctuations
- Industry-proven materials
- UV protected
- Less than 200 pounds
- One-piece design
- Dent proof
- Warranted against corrosion

Ridge Corporation is proud to offer products that are 100% recyclable.

DRY FREIGHT VIEW

GROUND CLEARANCE ARC

LEADING EDGE PROFILE CLEANS AIRFLOW

Green Wing's leading edge profile was refined in the RRWT to provide maximum fuel savings. The leading edge of the profile catches the "dirty" air just behind the tractor's duels and redirects the turbulence into a laminar flow resulting in less drag on your trailer.

Without sacrificing fuel savings, Green Wing's Ground Clearance Arc allows your trailer to travel over mid-trailer obstacles such as railroad tracks and sunken docks easier than conventional designs. The glass content in Green Wing[®] allows product impact with no permanent set. In other words, Green Wing[®] has a memory and always returns to flat.

GROUND CLEARANCE ARC

REFRIGERATED VIEW

GREEN WING'S GLASS REINFORCED LAYERS

At Ridge, engineered fiber orientation and high-performance thermoplastic resin combine to create an extremely durable material that is impact and abrasion resistant. Green Wing's woven core combined with unidirectional outer layers provide impact strength, stiffness in the length direction and vertical flexibility. When high-strength fibers are combined with resilient resins, the result is a 100% recyclable product that outperforms metal and non-reinforced plastic construction. Green Wing's thermoplastic fairing can be easily modified to suit most reefer configurations.



GROUND CLEARANCE ARC

Trailer approaching elevated surface.

Green Wing[®] deflecting from the outside.



Green Wing[®] deflecting from the inside.



DEVELOPMENT OF GREEN WING®

Ridge Corporation presents **Green Wing**[®] – aerodynamic fairings designed to provide the highest fuel economy at the lowest cost per mile. Like all other Ridge products, we put our management's 30-plus years of truck trailer industry experience into a product that upholds our commitment to durability, reliability, cost effectiveness and simplicity of design – which make up the cornerstone of all our successful products.

The Ridge Green Wing[®] has its roots in a scientific approach to fuel economy as conceptually designed at the Automotive Research Center (ARC) on their Rolling Road Wind Tunnel (RRWT - see picture above). The ARC's RRWT is used by racing teams, on-highway truck OE's, and automotive designers to acquire consistent, proven and repeatable data. This repeatable fuel savings data was then put to the test and proven with an EPA SmartWay verification for not one but two sideskirts. Ridge's "Green Wing" at 5.2% qualifies as an advanced fuel savings device while Ridge's "Smart Wing" qualifies as a 4% fuel savings device. The J1321 track testing for EPA conducted at FP Innovations produced a result predicted in the RRWT and is being verified as real-world numbers by fleet users. What was conceived in the wind tunnel has been corroborated both on the track and in actual use.

Ridge is investing significant capital in research that delivers immediate fuel savings and a valuable ROI for our customers. We are coupling these savings with our dedication to continuous product improvement. Green Wing[®] is constructed of proven industry materials yielding a lightweight (less than 200 pounds) design that is easy to install and maintain. As a result, Green Wing[®] is an excellent value for our customers that not only offers help towards SmartWay compliance, but provides the savings that our customers are seeking in this competitive market.

For more information on Green Wing[®] and other Ridge innovations, visit **ridgecorp.com.**



AERODYNAMIC DEVICE ROI CALCULATOR

Want to see how Green Wing will affect your bottom line? Visit the interactive calculator at greenwingisbetter.com, plug in your own numbers and see how much money you could save with Green Wing. After seeing the savings for yourself, then call us for details.

Below is an example of the online interactive calculator developed by ARC that helps determine your fuel savings.





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