RADIUS
A clear leader in aerodynamic improvement

RADIUS achieves industry leading fuel savings using a shorter skirt that is both light and efficient, with the net result being superior performance for the user and maximum margin for the manufacturer.

Secure Patented Design
Ricconics patented RADIUS designs, including two additional associated published patents as well, ensures that all involved parties have the assurance that the most complete defense of their solution is covered. Contact us to know more about our products and additional technology applications.

Solid Design,
Solid Function,
Solid Patents...
Solid Profitability

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Lighter - Smaller - More Efficient - Lower Cost

RADIUS represents a significant advancement over existing first and second-generation side skirts, taking aerodynamic improvement to an entirely new level in a lighter, smaller, more effective package.

The optimized design of RADIUS reduces trailer drag and dramatically increases fuel economy through use of a patented geometry. As operating costs continue to climb due to fuel prices and increasing government regulations, there is an increasing focus on maximizing margin in long haul operations. RADIUS is uniquely positioned to allow fleets and owner-operators to maximize margin and minimize their fuel costs and ensure compliance with greenhouse gas emission objectives.

**RA DIU S™**

Airflow - The way nature intended it to be…

Taking cues from natural shapes, RADIUS employs two large air flow directing surfaces. The unique geometry allows air to smoothly transition from turbulent behind the tractor wheels and from the exterior of the tractor to a more laminar stream. As the airflow redirection ends parallel to the body of the trailer, the pressure exerted from the outside air stream causes a generally inward airflow after the trailer wheels. The net effect is better slipstream performance and economy gain.

**RA DIU S TEC HNOLOG Y**

Echoes nature in providing an optimal airflow from entry to exit, and creates stunning results.

Typical tractor-trailers travel more than 125,000 miles per year, with each tractor consuming almost 21,000 gallons of diesel fuel. Over this range, RADIUS advanced aerodynamic side skirt technology can be anticipated to reduce fuel consumption by more than 1,000 gallons, reducing cost per year by almost $4,000, at current rates. Due to the excellent performance of the system and its lower manufactured cost, the revenue and margin opportunities for the manufacturer are exceptional.

Benefits for the user translate directly into opportunities for the manufacturer:

**FOR THE USER:**

- Immediate retrofit to new and old trailers, accommodating all I-Beam trailer frames
- Modular design allows ease of installation in lightweight sections
- Geometry reduces drag structure with minimum weight and material cross section
- Ultra-high performance materials with consistent color throughout panels can be knuckled, welded and cut with ease
- High efficiency design allows smaller overall length to allow access under the trailer and accommodates the widest range of chassis components

**FOR THE MANUFACTURER:**

- High-efficiency design creates maximum results with almost 20% less material and length than traditional technology
- Geometry creates optimal structural strength allowing for the lowest possible material volume and minimized margins
- The applicable market size is millions of units and market demand is rapidly expanding
- RADIUS MID (Material Independent Design) allows use of recycled tail panels to yield greater total margin and ongoing sustainable material profitability
- Modular design allows minimized logistical costs and warehousing overhead

New Generation, Tested Technology

First and second generation “traditional side skirts” shelter the rear trailer wheels from incident air, but do not allow optimized slipstream performance. The graphical representation below is a summary based on results posted on competitive web sites versus aerodynamic testing conducted on RADIUS in 2011.

First and second generation skirts are composed of straight skirt sections, either single plane or multi-plane, positioned parallel to the trailer sides, angled outward, or a combination of these orientations. In addition to not being as effective as RADIUS, these earlier generations require more complex materials and greater cross-sectional thickness to attain the required rigidity in the airstream.

<table>
<thead>
<tr>
<th>Traditional</th>
<th>Improved by RADIUS</th>
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<tbody>
<tr>
<td>Traditional A</td>
<td>33.5%</td>
</tr>
<tr>
<td>Traditional B</td>
<td>4%</td>
</tr>
<tr>
<td>Traditional C</td>
<td>4.5%</td>
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<tr>
<td>Traditional D</td>
<td>5%</td>
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</tbody>
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Independent testing results are clear: RADIUS generates a substantial reduction in fuel consumption, more than 1,000 gallons for 125,000 traveled miles.