

# AERODYNAMICS

## EXPLAINED

Built for the Flatbed Industry

### What Is Aerodynamics?

Aerodynamics is simply how air flows around your trailer at highway speed.

When air hits a flat bulkhead, it creates **DRAG** – and drag costs you fuel.



### The Problem with Standard Flatbed Bulkheads

A traditional flat aluminum bulkhead acts like a wall. At 60 mph+, the wind hits it directly.

That means:

- ✓ More resistance
- ✓ More fuel burned
- ✓ More strain on the tractor
- ✓ More movement in crosswinds



### The SMARTLOOK™ Advantage

By  LoadCovering.com

- ✓ Reduced wind drag (approx. 10~12%)
- ✓ Improved fuel economy (approx. 5~6%)
- ✓ Smoother ride in crosswinds
- ✓ Professional, integrated look
- ✓ Modular fibreglass design for easy service.

Less Drag =  
Less Fuel Burned



### How It Works (Simple Version)

- ✓ The tractor works less
- ✓ The trailer pulls easier



**Better Aerodynamics =  
Maximized Fuel Savings!**



CONTROLLING AIRFLOW



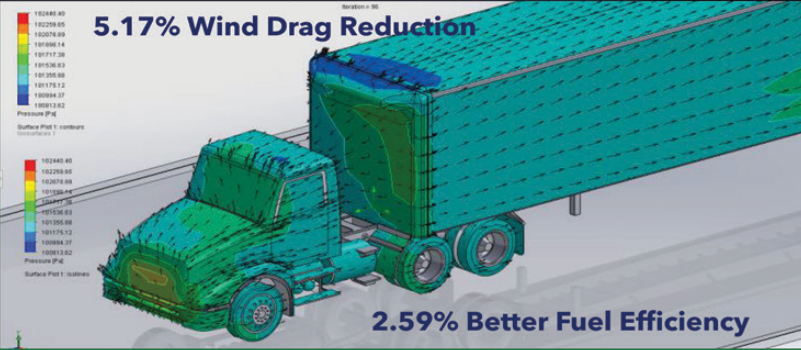
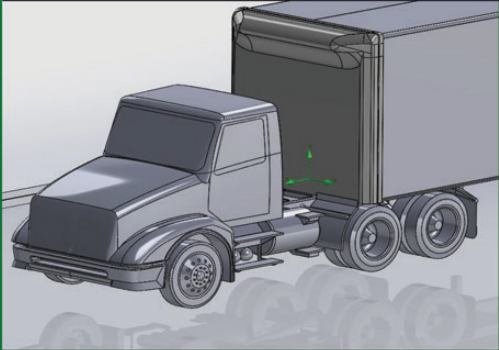
CFD Simulation Analysis

**Wind Drag Reduction (Drag Force Value %)**



**TEST RESULTS - Windmaster Bulkhead 100" Ht. Compared to a Flat Alum Bulkhead at 65MPH**

	Head Wind at Yaw Angle 0°	Cross Wind at Yaw Angle 3°	Cross Wind at Yaw Angle 6°	Cross Wind at Yaw Angle 10°	Cd (Drag Coefficient) Flow Weighted Average (%)	Improved Fuel Economy (%)
Aerodynamic BH Fairing 10"		3.51%	5.89%	5.06%	5.17%	<b>2.59%</b>



**LCS - A GO GREEN TARP SYSTEM MANUFACTURER**

REDUCING CARBON EMISSIONS

CONTROLLING AIRFLOW



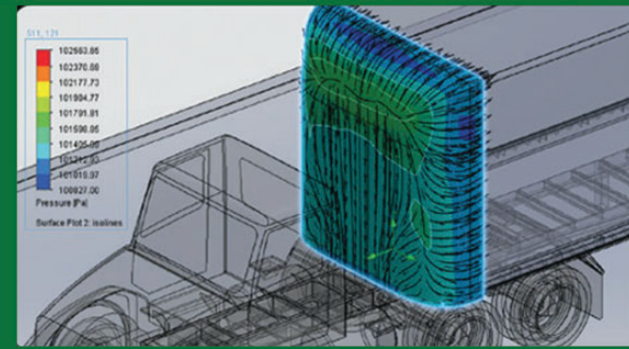
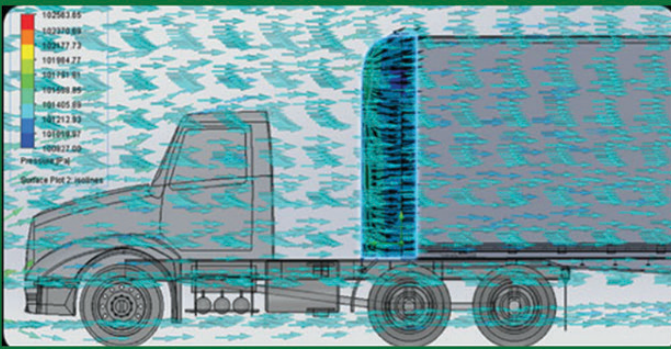
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	System Ht.	Cross Wind at Yaw Angle 0°	Cross Wind at Yaw Angle 6°	Cross Wind at Yaw Angle 10°	Wind Drag Reduction	Improved Fuel Economy
Aerodynamic BH Fairing 20"	<b>100" Ht.</b>	11.67%	9.10%	11.00%	<b>9.96%</b>	<b>4.98%</b>



**LCS - A GO GREEN TARP SYSTEM MANUFACTURER**

REDUCING CARBON EMISSIONS



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