



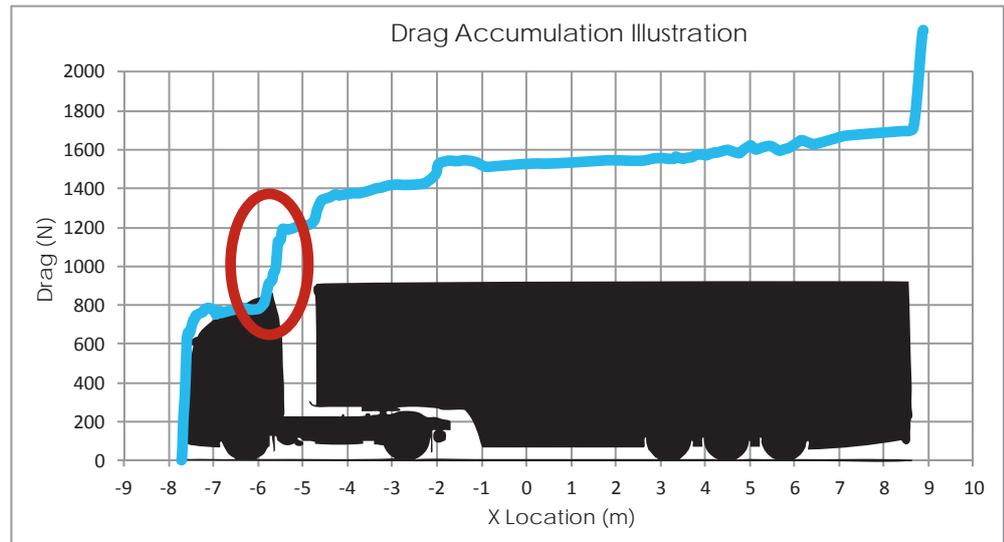
"Aeris"

Aerodynamic Cab Gap  
Solution

Published  
April 2015

## What is "Aeris"?

The cab gap on articulated vehicles accounts for almost 25% of total aerodynamic drag. Considering that aerodynamics plays such a crucial role in fuel economy at trucking speeds, it is no surprise then that the cab gap alone is responsible for a significant part of your fuel consumption.



## What Does This Mean To Your Operation?

"One standard tractor/trailer combination travelling 60,000 miles in a year at an average of 8.5mpg will consume 32,080 litres of diesel and create 84 tonnes of CO<sub>2</sub> at a cost of over £31,400\*.

Based on a fuel saving of 5%, the "Aeris" system would save you £1,570 a year.

\* Based on 96 pence per litre.

The "Aeris" system is an extending air bridge that saves approximately 5% in fuel by effectively filling the gap between the tractor air management and trailer front bulkhead. It deploys at speeds where aerodynamics critically affect fuel consumption and automatically retracts again at lower speeds to allow articulation freedom.



## Key Features & Benefits

- Fuel savings of approximately 5%
- Extends and retracts automatically
- Has no effect on internal cubic capacity
- Suits all tractor units
- Can be retrofitted

## Safety

There is a very good reason why the cab gap exists: It provides sufficient clearance to allow unhindered articulation in all directions. Indeed, this space is so critical, the 2040mm swing clearance forms a crucial part of the Construction & Use Regulations. To combat this, the "Aeris" system does what is needed, when it's needed.

## How It Works

At 49mph and over, the "Aeris" system automatically deploys, filling the gap between the tractor and the trailer and preventing excessive back-flow and turbulence.



When the vehicle travels slower than 49mph, the "Aeris" system is rapidly and automatically retracted within the 2040mm swing radius to allow full articulation.



---

## Thank You

If you have any questions about this document, or would like to discuss your operational requirements, please call the Don-Bur sales department on 01782 599 666.



---

Established in 1981, the Don-Bur Group has become internationally recognised for its innovative development of trailers and rigid vehicle bodies, designed to minimise operational costs and increase efficiency.

Don-Bur has committed to research and develop solutions with primary focus on aerodynamics and optimum utilisation of available cubic capacity.

Based in Stoke-on-Trent in the West Midlands, Don-Bur has a 500 strong flexi workforce and generates a group annual turnover of £50 million. Vertically integrated divisions include an 18 acre primary manufacturing site, curtains and load restraint division, graphics house and two after-sales service sites (repair, servicing, refurbishment and ATF Station).

The comprehensive structure provides a complete and fully accountable solution for clientele, catering for all commercial vehicle needs throughout their lifespan.