

# AngelWing Truck Side Guards™



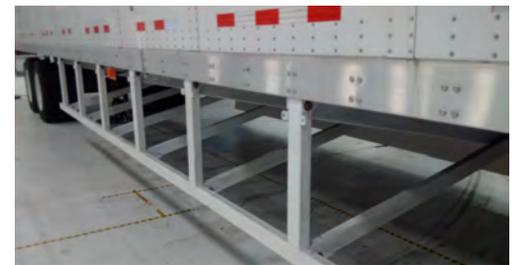
## Side Underride Protection Devices for Large Transportation Trucks and Trailers

### WHAT IS A TRUCK SIDE UNDERRIDE GUARD?

Side underride protection devices are made of different materials that are mounted to both sides of large transport truck trailers. In the event of a side collision, they are designed to cover the large gap or space (underride) between the front cab and the rear wheels. They prevent vulnerable road users from penetrating the underride which causes fatal or life changing injuries.

### WHAT ARE THE BENEFITS OF SIDE GUARDS?

Truck trailers are often higher than the hood of a vehicle and when a side crash occurs, the car goes partially or completely under a truck or trailer causing catastrophic and life changing injuries to all occupants. Side underride devices engage most safety accessories like airbags, crash avoidance sensors and other safety components of cars as well as prevents vehicles from going under the truck, increasing the change of survival with these types of accidents.



Full steel frame construction mounts to the existing cross members of the trailer body. Sold in kits, easy to install and fully tested to provide protection up to 35 mph.

AngelWing can be sold with or without an composite side skirt, allowing for a retrofit that will maintain SmartWay certification in most cases.

## AngelWing™ Truck Side Underride Protection Device

"Part of an Overall Fleet Safety & Fuel Savings Fleet Program"



### FEATURES AND BENEFITS

AngelWing™ ATS certified side underride protection devices can be installed with or without a traditional fuel savings skirt, depending upon the application. The strength of the lateral protection is achieved by AirFlow Deflector's patent pending skeleton design which is attached to the underside of the trailer. The end result is a side guard that provides superior underride protection, strength, flexibility, and reduced wind resistance when installed with a side fairing skirt, ensuring that the large transport truck is as safe and fuel-efficient as possible.

AirFlow Deflector's goal is to increase safety and fuel savings, providing a more green approach to transporting goods as well as ensure the safety of our streets. Like our LTS Deflector, the AngelWing ATS side guards have been tested with soon to be published results from IIHS™ pending EPA SmartWay™ Verified Technologies for Advances Trailer Aerodynamics as California Environmental Protection Agency.

### AIRFLOW DEFLECTOR CERTIFICATIONS



# AngelWing Side Underride Protection Device

Tested to provide side underride protection at speeds of 35 mph\*\*\*

## STATISTICS

### Defining Underride Collisions

In the most basic definitions, an “underride truck accident” occurs when a collision between a commercial tractor-trailer and a standard-sized passenger vehicle happens. These kinds of crashes result in the vehicle coming to rest underneath or inside the truck, typically shearing off the top of the car.

Underride truck accidents are typically deadly for victims in regular-sized cars because the point of impact happens right at head level. This increases the risk that victims will suffer acute or fatal head trauma at the moment of collision, despite the fact that airbags and other safety equipment probably deployed appropriately. Unfortunately, these types of accidents are also very common. National Highway Transportation Safety Administration (NHTSA) statistics reveal that half of all fatal car-versus-truck accidents are classified as underride truck accidents. Annually, big rigs are also tied to the most fatal underride truck accidents on U.S. roads.

According to NHTSA data, 73% of all fatalities in a truck accident in 2014 were the occupants of other vehicles. In 2015, White House and DOT issue call to action to data scientists and public health experts as 2,348 more people died in crashes than in 2014.

Several safety groups and trucking groups, including the Truck Trailer Manufacturers Association (TTMA), are currently petitioning the National Highway Traffic Safety Administration (NHTSA) to improve underride guard standards, which have not changed since the 1990s.

Some petitions also ask the NHTSA and the Federal Motor Carrier Safety Administration (FMCSA) to crack down on companies that allow under-ride guards to become damaged, bent, or rusted, decreasing their efficacy.

AngelWing Side Guards can prevent or reduce underride should a collision occur.



Near; y 4,000 people die each year in trucking related accidents\*

\*Source: [www.nhtsa.gov/](http://www.nhtsa.gov/)



Crash\*\* without any underride protection device

\*\*Source: <http://www.iihs.org>



Crash\*\*\* with AngelWing™ Side Underride Protection device

\*\*\*Source: Calspan Technology Crash Test - January 9, 2017

# AirFlow Deflector Inc.



Established in 1994, AirFlow Deflector is the #1 North American manufacturer of a full suite of side underride protection devices and other clean aerodynamic technology products, engineered to decrease the potential for injury and death to pedestrians and cyclists, as well as SmartWay™ and California Air Resource Board™ approved products which can reduce the fuel consumption rates of the global freight transportation industry.

AirFlow Deflector is redefining the North American road and highway landscape by re-shaping the modern tractor-trailer and straight-line truck. Our safety and aerodynamic technologies provide the industry with a product line recognized for having the strongest safety standards as well as the highest fuel consumption efficiency rates. The level of commitment in research and development found within our product line continue to have a positive impact on the industry, resulting in significant reductions in personal injury and death as well as reducing associated greenhouse gas emissions of trucking fleets by up to 12%.

AirFlow Deflector is proud of the strong contributions made by our team of devoted individuals in the pursuit of personal safety and a greener environment. It is their continued perseverance and alignment with our corporate vision that has earned us our time-honored reputation for providing quality custom molding services with the highest standards, for over 20 years. Today, our dedication in research and development efforts enable us to be well positioned to embrace new technologies in the quest for continued industry-excellence.

“Our mission is to end serious traffic-related injuries and death as no level of human loss is acceptable.”

## GREEN FOR THE ENVIRONMENT

*Every AirFlow Side Guard LTS or AngelWing ATS equipped semi-trailer offsets the equivalent greenhouse gas emission of removing one passenger vehicle from the road.*

## Product Suite:

Side Guard CTS Composite Panel | Side Guard RTS Alloy Rail System | AngelWing ATS | Long-Haul LTS



“One safer truck at a time”

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