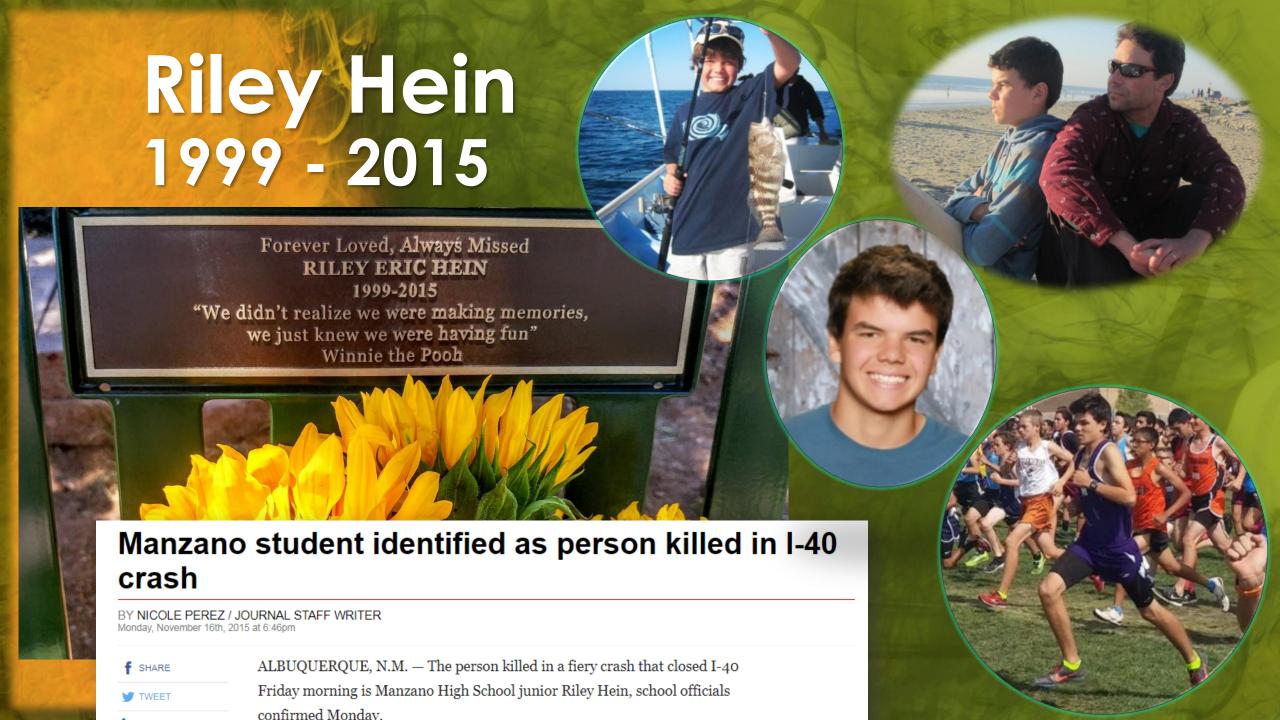
Turning Tragedy Into Advocacy

On A Mission To Make Truck Crashes

More Survivable









nat kills It's the underride!





Underride occurs due to a Geometric Mismatch





Passenger Compartment Intrusion

Victims of preventable underride include not only occupants of passenger vehicles but also Vulnerable Road Users, including pedestrians, bicyclists, and motorcyclists.

Underride Is A Major Factor In Vulnerable Road User Collisions With Trucks

One example is Sylvia Bingham:

"As a cyclist, she was hit by a straight truck and went underneath that straight truck."

"It's not the initial impact. It's when they go underneath the truck, and they're hit by the back wheel."



Engineers have developed solutions to prevent underride and Passenger Compartment Intrusion.

Prevent Underride

Home Underride SafetySkirt RIG Retroft Crash Testing Get Involved More

ENHANCING TRUCK SAFETY

SAVING LIVES

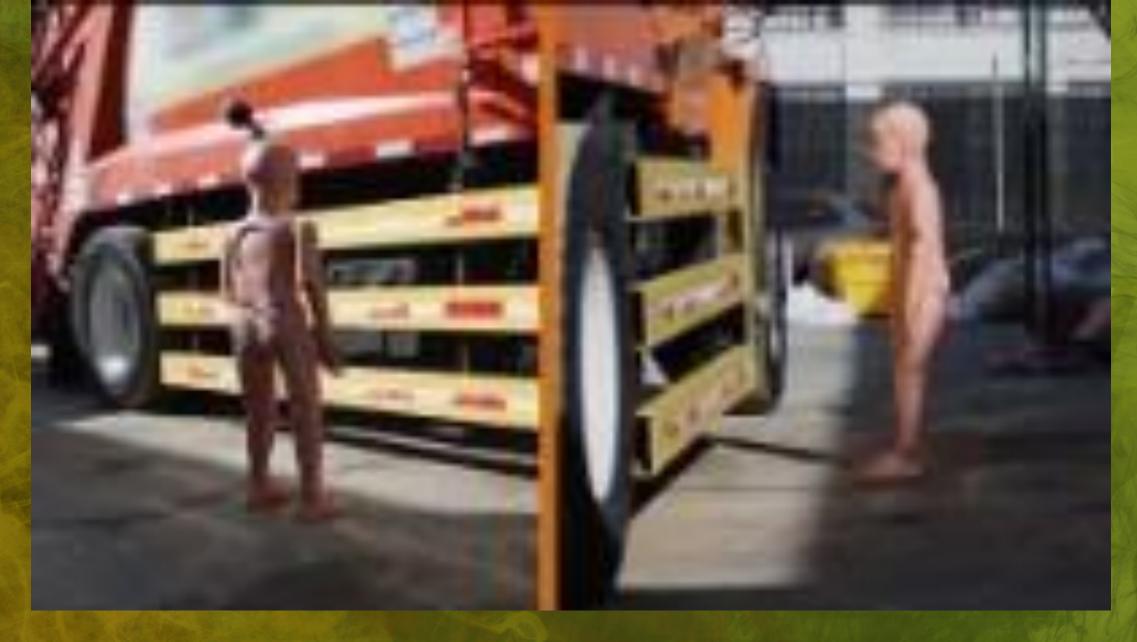
Underride SafetySkirt TM RIG Retrofit Media More

Collision Safety Consulting





Raleigh engineer creating, testing truck underride crash barriers



Pedestrian-Bike Side Guards for Trucks: How They Work

A Side Skirt is a relatively flimsy device, which is designed to improve aerodynamics and save fuel; it is not designed to prevent underride.

Lateral Protection Device (LPD) is a term coined for equipment installed on the side of a truck to prevent Vulnerable Road Users (pedestrians, bicyclists, and motorcyclists) from being swept under. It is not designed to stop a passenger vehicle from going under.

Side Underride Crash Test Washington, D.C. March 26, 2019

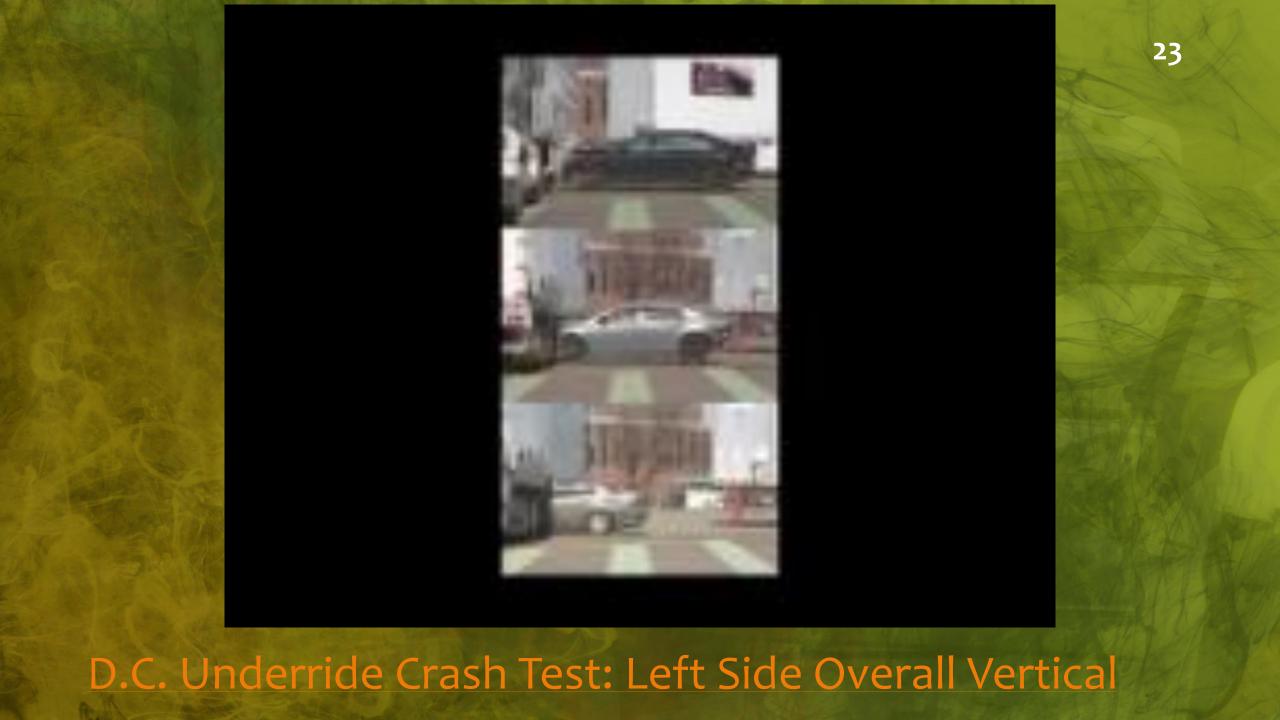
Unguarded Side Crash Test in D.C.



Side crash tests:

- top car with a side skirt for fuel savings
- bottom car with a side guard behind the side skirt

A Side Underride Guard (SUG) or Side Impact Guard (SIG), on the other hand, is designed to prevent a passenger vehicle from going under a truck. Thankfully, it will also protect Vulnerable Road Users from being killed under a truck. And, by the way, it adds to the fuel savings of side skirts.





SafetySkirt DC Crash Test, March 26, 2019

That is why a SUG or SIG can rightfully be called a LPD+; it does what a LPD is meant to do - and so much more.

Why on earth would we require or install equipment on the U.S. fleet which will save fuel but not lives?



Wabash National debuts eco-friendly Super Truck

A more rigid fully-guarded trailer can improve aerodynamic benefits as well as prevent underride.







Raleigh Side Guard Crash Test, September 13, 2022



Successful Raleigh Side Guard Crash Test

This design is also conceived to carry a range extension battery patent pending product that is built into and protected by the side guard.

TEAM Underride Let's work together to reduce GHG and end underride!