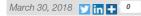
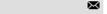


#### **Fleets**

Home > Fleets > Proposed Federal Law Aims To Save Lives with Vehicle Guards





Fleet

## Proposed Federal Law Aims To Save Lives with Vehicle Guards

'Underride guards' prevent fatal car crashes and rear wheel crush hazard to cyclists and pedestrians.

By Del Williams



U.S. Senators Marco Rubio (R-FL) and Kirsten Gillibrand (D-NY) have introduced legislation aimed at keeping cars, bicyclists, and pedestrians from sliding under a truck's body or trailer. Such incidents are often fatal even at low speed, killing more than 300 people every year. The Stop Underrides Act of 2017 (S. 2219) would require adding "underride guards" behind each front wheel along the undercarriage.

U.S. Representatives Mark DeSaulnier (D-CA) and Steve Cohen (D-TN) have introduced the companion bill in the House (H.R. 4622). While both bills must be referred to committee, voted on by each chamber, reconciled, and signed by the president before becoming law, the bipartisan effort to improve road safety is endorsed by the National Safety Council and Advocates for Highway and Auto

#### Blocking access to a vulnerable area

Referred to as vulnerable road users (VRUs) by the U.S. DOT, bicyclists, motorcyclists, and pedestrians can fall into the exposed space between the front and rear wheels when they strike trucks that have a high ground clearance. According to the agency's John A. Volpe National Transportation Systems Center in Cambridge, Mass., nearly half of bicyclists and more than one-quarter of pedestrians killed by a large truck first impact the vehicle's side.

Barriers that block this vulnerable spot have been required since the 1980s in the European Union and Japan and, more recently, in China, Brazil, and Peru. After the United Kingdom mandated side guards in 1983, cyclist fatalities fell 61% and pedestrian fatalities fell by 20%. Volpe Center research indicates the guards cost an average of \$847 and add 6 pounds to 73 pounds to a truck's weight.

"Municipal sanitation departments in congested cities should seriously consider adding them," says Solid Waste Association of North America (SWANA) Executive Director and CEO David Biderman.

#### **Trending**

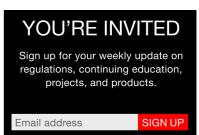


Tjernlund Products



What You Need to Know About the Tragic...











latter, launched by Sweden in 1997 to make safety the responsibility of transportation system designers as well as road users, lowered fatalities 50% even though traffic volumes increased.

In 2012, after four fatal collisions between trucks and bicyclists, Boston installed steel mesh, steel rail, or polymer composite guards on 17 vehicles for about \$1,800 each. The pilot project proved guards don't affect serviceability, ability to mount curbs, or maneuverability in debris and snow. In 2014, Boston became the nation's first city to require them on city-owned and -contracted vehicles with gross vehicle weight rating (GVWR) over 10,000 pounds and semitrailers over 26,000 pounds. (The ordinance also requires convex mirrors, crossover mirrors, and blind-spot awareness decals.)

Emergency and snow removal vehicles, street sweepers, and trucks with toolboxes that meet side quard specifications are exempt.

Chicago, Denver, San Francisco, and Seattle – among others – have followed suit. New York City is requiring guards on 10,000 vehicles by 2024 as part of its Vision Zero Action Plan for ending traffic deaths and injuries. This year, the city is incentivizing waste contractors to install guards on trucks with 2007 model year or newer engines that comply with Volpe Center-recommended standards for designing, manufacturing, testing, reviewing, and/or procuring side guards and guard-equipped vehicles. Intended for use by public or private medium/heavy-duty truck fleets, jurisdictions that require guards, guard manufacturers, and truck manufacturers and dealers, DOT-VNTSC-OSTR-16-05 requires guards to withstand 440 pounds of force.

"It's an inexpensive way to avoid a potentially catastrophic situation," says Ken Levine, former corporate safety director for Action Carting Environmental Services in Teaneck, N.J., which has retrofit about 60 trucks. DureX Inc., a Union, N.J.-based metal fabricator that makes the Dur-A-Guard, worked with him to accommodate his fleet's various makes, models, and configurations. "They custom-fit the guards on trucks with tanks, toolboxes, sidewalls, and bodywork," he says.

#### Material and design options



**Dur-A-Guard** 

The U.S. DOT has considered requiring side guards since the 1960s. In the absence of a national mandate, many cities are adopting ordinances.

maintenance and then put them back on."

Guards are available as panel systems or rail systems. They're made of aluminum, steel, or polymer composite. Some are hinged to swing up and down for easy installation and maintenance, and some are detachable.

"We looked into the swing-up, swing-down-type guards, which provide access under the truck, but liked the removable ones better," says Levine. "One person can easily pull them off for

It's difficult to find a single-sized guard that fits the many chassis public works departments use, but DureX has created a universal design that accommodates most. "Municipalities could get them drop-shipped," says Levine. "If you can save a life, what price tag can you put on that?"

#### **About the Author**

#### Del Williams

Del Williams is a technical writer based in Torrance, Calif.

Advertisement

#### Keywords:

#### Subject:

Fleets, Trucks and Accessories

Legislation

Transportation Safety

#### More from Public Works







Combo Diesel/DEF Transfer Tank for Pickup Trucks



Fleets
15 Ways to Make
Vehicles More
Efficient and Drivers
Safer



**CNG Fuel Systems** 

#### Join the Discussion

Please read our Content Guidelines before posting

Products Fleets Facilities Roadways Water/Sewer Waste Administration Resources

### CONCRETE CONSTRUCTION

Winner of the Innovative Fiber Project of the Year Award Announced

Our Honorable Friend Frank

Florida Bridge Collapse: Experts

Tilt-Up Concrete Association Bracing Guideline

WMU to Host Regional Concrete Canoe Competition

# **Masonry**Construction

Paver Installation Completed for the Nashville Zoo's Latest Exhibit

Study Reveals Longer Days, Hiring Squeeze for Masons

Bricklayers Union Accepting Apprenticeship Applications

Farewell Masonry Construction

World of Concrete 2018 Special Events

## Concrete Producer

Innovative Fiber Project of the Year Award Winner Announced

WMU to Host Regional Concrete Canoe Competition

OSHA Cracks Down on Failure to File Electronic Injury Reports

Concrete Design Award Winners Announced

Building Resilient 3D Printed Homes in Texas



Winter 2018
Subscribe

Public Works: Trends, projects, products and technology for public works officials

Public Works Relevant Sites: Concrete Construction I The Concrete Producer I Masonry Construction I Architect I Ecobuilding Pulse I Metrostudy

Copyright © 2018 Hanley Wood Media, Inc. All rights reserved

About | Advertise | Contact Hanley Wood | Magazine | Masthead | Privacy Policy | Careers