

# SMART CUSHION®

SPEED DEPENDENT IMPACT ATTENUATOR



## SEVERE DUTY, EASY TO RESET

THE WORLD'S ONLY SPEED-DEPENDENT  
CRASH ATTENUATOR



### RESTORABLE IMPACT ATTENUATOR

- ▶ Redirective, non-gating, bidirectional impact attenuator
- ▶ Designed to be reset after an impact in under 30 minutes
- ▶ Exceptional life-cycle cost / Low-cost reset
- ▶ Low-cost repair
- ▶ MASH Test Level 3 and Test Level 2

The Smart Cushion® crash attenuator is a revolutionary, speed-dependent product that varies stopping resistance during an impact. The Smart Cushion® crash attenuator allows lighter and slower-moving vehicles to have longer ridedown distances and lower ridedown g-forces.

#### MASH TEST LEVEL 3

<b>21' 6"</b> <b>LENGTH</b>	<b>24"</b> <b>WIDTH</b>
<b>34"</b> <b>HEIGHT</b>	<b>3,450 LB</b> <b>WEIGHT</b>



**GREGORY  
HIGHWAY**



**HILL & SMITH**



### STRONGER SIDE PANEL

The panel is over 90% stronger than curved profiles. The profile allows the edges to be beveled, reducing the potential for snagging and damage on reverse-direction impacts. The panel also smoothly redirects vehicles on side impacts. The side panel is fabricated from 10-gauge, 60-ksi, minimum-yield steel with an ASTM A123 galvanized coating.



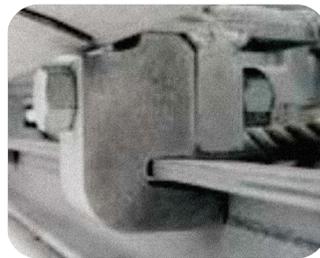
### CABLE & CYLINDER SYSTEM

This system allows longer ridedown distances for smaller vehicles, as well as smoother ridedown with lower g-forces for all vehicles. The cylinder's hydraulic porting assures a controlled ridedown by applying the necessary resistance required based on the speed and mass of the vehicle.



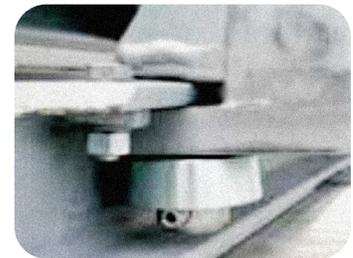
### SUPPORT GUSSETS

Gussets located behind the panels reduce gap formation and deformation to prevent snagging on reverse side impacts.



### SIDE GUIDE DESIGN

This revolutionary design withstands side impacts with no damage.



### FRONT ROLLERS

The roller guide design on the front sled produces a smooth, aligned collapse by reducing friction and binding.

SMART CUSHION® DIMENSIONS	Test Level 2 MASH-NCHRP 350	Test Level 3 MASH-NCHRP 350
A	13' 6"	21' 6"
B	24"	24"
C	34"	34"
WEIGHT	2470 lbs.	3450 lbs.

