

# FITCH UNIVERSAL MODULE<sup>®</sup> SYSTEM

## MULTI-PIECE BARREL DESIGN REDUCES MAINTENANCE COSTS



### OVERVIEW

The Fitch Universal Module System is a non-redirective crash cushion consisting of a number of sand-filled modules that are installed in a specific geometric array in front of a hazard. Each module in the array consists of one set of walls, one Unicore insert, one lid and four Zip Strips. The Fitch Universal Module System's multi-piece construction saves time and money on repairs, allowing only the damaged parts to be replaced after impacts. The exclusive Unicore insert allows the module's sand mass to be adjusted to any weight, eliminating the need to maintain large parts inventories. The modules can be configured in 90, 180, 320, 640 and 960 kg weights.

### MEETS NCHRP 350 TL-1, 2 & 3

The Fitch Universal Module meets NCHRP 350, Test Levels 1, 2 and 3 as a non-redirective crash cushion when placed in appropriately designed arrays. The modules break up during impact. As the impacting vehicle passes through the array, its speed is slowed by the transfer of its momentum to the sand, allowing for controlled safe, steady deceleration. Sand and plastic parts will scatter in the direction of the impact. As a non-redirective crash cushion, the Fitch Universal Module System does not control side angle impacts. A sufficient clear zone is required for vehicle recovery.

### FEATURES AND BENEFITS

- ▶ Meets NCHRP 350, Test Level 3 for non-redirective crash cushions.
- ▶ Decelerates impacting vehicles ranging in weight from 820 to 2000 kg (1810 to 4410 lbs) and traveling at speeds up to 113 km/h (70 mph) during head-on impacts.
- ▶ Low initial cost.
- ▶ Multi-piece barrel design reduces maintenance costs.
- ▶ Ideal for wide hazards in low frequency impact areas.



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**SAVING LIVES BY DESIGN**



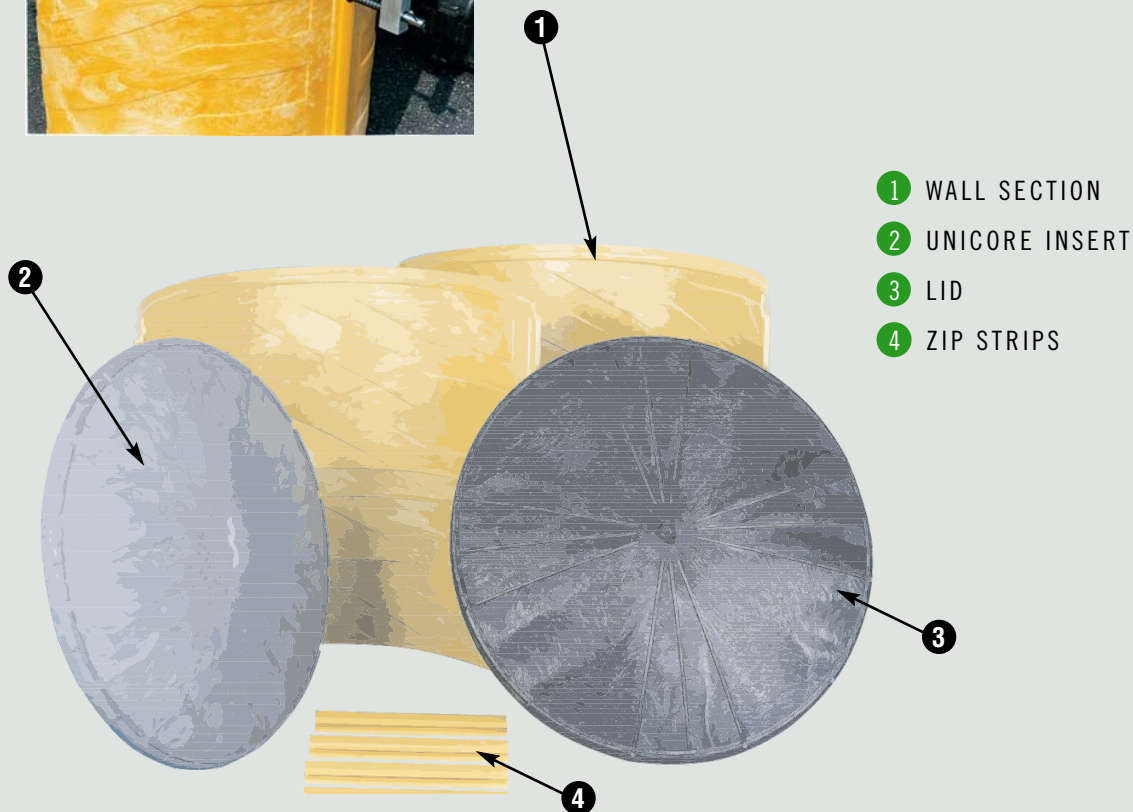
## FITCH QUICK LIFT HOISTING BEAM

The Fitch Universal Modules are easy to relocate with the new Fitch Quick-Lift Hoisting Beam made of high strength galvanized steel. Each Fitch Universal Module comes with four Zip Strips, two of which have predrilled holes near one end for use with the hoisting beam. Simply lower the Quick-Lift Hoisting Beam over the filled module and push the lifting pins into the holes in the Zip Strips. Then hoist the modules into place using a wide range of lifting devices. Relocating sand-filled modules has never been easier!



## GLANCING HITS

Many of the hits inertial barriers are glancing, nuisance hits causing a small hole or damaging only one half of the module. Fitch Universal Modules not only save time on installation, but also save time and money on repairs: simply orient the Zip Strips towards oncoming traffic. A grazing impact now hits only one side of the module. This leaves the Zip Strips and the other side of the module intact, reducing the cost of replacement parts and making for less clean-up.



- 1 WALL SECTION
- 2 UNICORE INSERT
- 3 LID
- 4 ZIP STRIPS



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## SAVING LIVES BY DESIGN



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General specifications for the Fitch Universal Module System are subject to change without notice to reflect improvements and upgrades. Additional information is available in the Product Manual for this system. Contact Energy Absorption Systems for details.