

## Product Evaluation

### RE: Review of Fitch Universal Module System Crash Cushion

#### **PRODUCT**

The Fitch Universal Module System Crash Cushion is manufactured by Valtir LLC located in Addison, Texas. It is distributed by Barricades and Signs Ltd. Located in Sturgeon County, Alberta.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

The Fitch Universal Module System Crash Cushion has been tested to the guidelines as specified in NCHRP 350 TL-3, for non-re-directive crash cushions. The Fitch Universal Module System multi piece construction saves time allowing only the damaged parts to be replaced after impacts. Product Web Link: [Valtir.com](http://Valtir.com)

##### **DESCRIPTION**

The Fitch Universal Module System Crash Cushion is a non-directive, easy to install 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 modules break up during impact, as the vehicle passes through the array; its speed is slowed by the transfer of its momentum to the sand, allowing for controlled safe steady deceleration.

##### **POTENTIAL USAGE**

Fitch Universal Module System Crash Cushion are installed in a specific geometric array in front of a hazard. The Fitch Universal Module System exclusive Unicore insert allows the modules 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. Fitch Universal Modules are easy to relocate with the Fitch Quick-Lift hoisting beam made of high strength galvanized steel.

##### **STANDARDS**

NCHRP 350 TL-3

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation may have used this product in its project.

##### **APPLICABLE STANDARDS**

Alberta Transportation does not have a standard for crash attenuators.

##### **RECOMMENDATIONS:**

Fitch Universal Module System Crash Cushion be listed as a Reviewed Product under Alberta Transportation and Economic Corridors Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided.

**Caveat:** Fill material shall not freeze.

#### **TRIAL PROJECTS**

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Product ID: 8166-1-8  
Initiation Date: November 2009  
Revision Date: October 10, 2023