

Product Evaluation

RE: Review of QuadGuard Elite System Impact Attenuator

PRODUCT

The QuadGuard Elite System Impact Attenuator 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 QuadGuard Elite System Impact Attenuator has been tested to the guidelines as specified in NCHRP 350 TL-2 and TL3, as a non-gating crash cushion. Product Web Link: <https://www.valtir.com/>

DESCRIPTION

The QuadGuard Elite System consists of an energy absorbing cylinder or bay spacer, a diaphragm, two fender panels and fasteners. Each bay (except for the first and second bays) of the QuadGuard Elite System is fitted with an energy absorbing plastic cylinder. The QuadGuard Elite Systems cylinders are made of high density polyethylene plastic (HDPE), a material that can withstand multiple impacts before requiring replacement.

POTENTIAL USAGE

QuadGuard Elite System performs as a redirective, non-gating crash cushion as specified in the NCHRP Report 350. This system is designed to withstand multiple impacts without requiring replacement of the energy absorbing plastic cylinders. The QuadGuard Elite System telescopes rearward during head-on impacts and crushes the HDPE cylinders to absorb the energy of impact. When impacted from the side, the QuadGuard Elite System safely redirects or captures the errant vehicle back toward its original travel path without allowing gating.

STANDARDS

NCHRP 350 TL-2 and TL-3.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation may have used this product in its projects.

APPLICABLE STANDARDS

Alberta Transportation does not have a standard for crash attenuators.

RECOMMENDATIONS:

QuadGuard Elite System be listed as a Reviewed Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided.

TRIAL PROJECTS

Whitemud 2 locations

Rishi Adhikari

cc Innovation Evaluation Group – Roger Skirrow
Hal Cook/Wayne Mah