

Product Evaluation

RE: Review of QuadGuard Impact Attenuator

PRODUCT

QuadGuard Impact Attenuator is manufactured by Quixote Corporation, Energy Absorption Systems located in Chicago, Illinois and distributed by Alberta Traffic Supply of Edmonton, Alberta and by Safe Roads Highway Products of Leduc, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

QuadGuard Impact Attenuator has been tested to the guidelines as specified in NCHRP 350 for non-gating, re-directive attenuators. When properly installed and maintained this system is capable of performing effectively with both light cars and high center of gravity pickup trucks. Product Web link: http://energyabsorption.com/products/products_quadguard_crash.asp

DESCRIPTION:

The QuadGuard system consists of crushable, energy absorbing cartridges surrounded by a framework of energy's exclusive steel Quad-Beam panels. QuadGuard Impact Attenuator systems cylinders are made of high density polyethylene plastic (HDPE), a material that can withstand multiple impacts before requiring replacement. The QuadGuard Systems telescope rearward and crush the cartridges to absorb the energy of the impact.

POTENTIAL USAGE:

QuadGuard Impact Attenuator when design impacted from the side, the system safely redirects vehicle back toward its original travel path without allowing gating. The QuadGuard Impact Attenuator has been designed and tested to meet the evaluation criteria of NCHRP 350 Test Level 3.

STANDARDS:

QuadGuard Impact Attenuator system meets NCHRP Report 350 Level 3 for redirective, non-gating attenuators.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this system.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for crash attenuators

RECOMMENDATIONS:

QuadGuard Impact Attenuator system be listed as a Trial Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

TRIAL PROJECTS

Deerfoot Trail at Glenmore and Anderson
Stoney Trail at Hwy 2, Yellowhead Trail at Jasper

Rishi Adhikari

cc New Product Evaluation Standing Committee – Roger Skirrow
Hal Cook/Bill Kenny/Jim Gavin