

Product Evaluation

RE: Review of QuadGuard II 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. It is also distributed by Alberta Traffic Supply of Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

QuadGuard II Impact Attenuator has successfully passed the NCHRP 350 NCHRP 350, Test Level 3 test with both the light car and pickup truck at speeds up to 100 km/hr at angles up to 20 degrees. Product Web link: <https://www.valtir.com/>

DESCRIPTION:

The QuadGuard II Impact Attenuator consists of crushable, energy absorbing cartridges surrounded by a framework of steel Quad-Beam panels. QuadGuard II Impact Attenuator nose consists of a steel wrap and an energy absorbing cartridge. The cartridge cylinders are made of high-density polyethylene plastic (HDPE), a material that can withstand multiple impacts before requiring replacement.

POTENTIAL USAGE:

QuadGuard II Impact Attenuator will telescope rearward on head-on impacts by both light car and high center-of-gravity pickup trucks at speeds up to 100 km/hr. The design of the QuadGuard II does an excellent job of minimizing debris affecting other vehicles in the roadway.

STANDARDS:

QuadGuard II Impact Attenuator system meets NCHRP Report 350 Level 3.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation and Economic Corridors has used this product in its projects.

APPLICATION STANDARDS:

Alberta Transportation does not have a standard for crash attenuators.

RECOMMENDATIONS:

QuadGuard II Impact Attenuator 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

Stoney Trail, Yellowhead in Edmonton, St. Albert Trail, Deerfoot, Crowchild

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