

Product Evaluation

RE: Review of QuadGuard M-10 MASH Compliant Crash Cushion

PRODUCT

QuadGuard M-10 MASH Compliant Crash Cushion is manufactured by Quixote Corporation Energy Absorption Systems located in Chicago, Illinois and it is distributed in Alberta by Safe Road Highway Products Alberta Inc. located in Leduc, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

The QuadGuard® M10 consists of an engineered steel nose and crushable, energy absorbing cartridges surrounded by a framework of steel Quad-Beam™ panels. The system is MASH Test Level 2 and Test Level 3 compliant as a re-directive, non-gating crash cushion. Product web link: <http://www.workareaprotection.com/attenuator.htm>

DESCRIPTION:

The QuadGuard M10 consists of the MASH Test Level 3 platform and framework and in addition to an engineered steel nose and monorail shims. The QuadGuard M10 can be used to shield hazards of 24" to 96" (610 mm to 2.3 m) wide. It features self-supporting steel nose, Monorail guide stabilizer, and high strength panels. It does not require anchoring chains or cables.

POTENTIAL USAGE:

QuadGuard M-10 could be reusable after design impact. Monorail base of QuadGuard M-10 eliminates need for anchoring chains/ cables.

STANDARDS:

MASH Test Level 2 and 3 (2009)

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has used similar systems.

APPLICATION STANDARDS:

Alberta Transportation standard specifications for guardrail are:
Specification 2.19, Guardrail and Guideposts
Specification 5.25, Supply of W-Beam Guardrail and Posts

RECOMMENDATIONS:

QuadGuard M-10 MASH Compliant Crash Cushion system be listed as a Potential 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

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