

Product Evaluation

RE: Review of Vulcan Longitudinal Steel Barrier System

PRODUCT

The Vulcan Longitudinal Steel Barrier System is manufactured by Energy Absorption Systems Incorporated located in Chicago, Illinois and distributed by Barricades and Signs Traffic Professionals located in Sturgeon County, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The Vulcan Longitudinal Steel Barrier System functions as a portable longitudinal barrier to prevent errant vehicle penetration, vaulting or under riding. The Vulcan Barrier system can be used in many applications: road maintenance, road construction, lane closures, detours, bridge repairs, etc. Product Web Link: http://www.energyabsorption.com/products/products_vulcan_tl3.asp

DESCRIPTION

The Vulcan Longitudinal Steel Barrier System is constructed from a series of individual barrier sections that are made of galvanized steel. The portable Vulcan Barrier sections are constructed with knuckles that interlock with those of other segments. The end knuckles are vertically aligned to accept a steel connecting pin; the pin securely joins the sections for maximum impact performance. The sections can swivel at the pin for easy positioning around work areas. The moveable Vulcan Barrier employs a mechanism called the Vulcan Transfer attachment connected to a standard skid steer or front end loader to efficiently open or close one lane mile of Vulcan Barrier in 20 minutes.

POTENTIAL USAGE

The Vulcan Barrier System is available in lengths of four meters, eight meters and twelve meters. The lightweight and stackable Vulcan Barrier design allows up to 160 meters to be transported on one truck.

STANDARDS

NCHRP 350

The Vulcan Barrier portable design is tested to meet NCHRP – 350 TL – 3, test requirements.

The Vulcan Barrier moveable design is tested to meet NCHRP – 350 TL – 3 & 4, test requirements.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has used this product

APPLICABLE STANDARDS

The Alberta Transportation specifications for guardrail are:

Specification 2.19, Guardrail and Guideposts

Specification 5.25, Supply of W-Beam Guardrail and Posts

Specification 5.27, Supply of Cable Barrier and Metal Posts

RECOMMENDATIONS:

Vulcan Barrier be listed as a Proven Product under Alberta Transportation Products List, Traffic Control Devices – Barrier Systems – Proprietary, based on the information provided.

TRIAL PROJECTS

Stony Trail, Nisku, Hwy 2 N. of Airdre (2017), Edmonton Whitemud drive (2018)

Rishi Adhikari

