

Product Evaluation

RE: Review of Trinity Cable Safety System CASS S3

PRODUCT

The Trinity Cable Safety System CASS S3 is manufactured by Trinity Highway Safety Products located in Dallas, Texas and distributed by Roadside Supply Ltd located in Sherwood Park, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The Trinity Cable Safety System CASS S3 has received letters of acceptance from the Federal Highway Administration (FHWA) for its Test Level 3 (TL-3) and Test Level 4 (TL-4) cable barrier systems. All testing procedures were conducted as prescribed by the National Cooperative Highway Research Program (NCHRP) Report 350. Product web link:

<http://www.highwayguardrail.com/products/cb.html>

DESCRIPTION

The Trinity Cable Safety System CASS S3 is a tensioned; four cable barrier system that was tested with standard (non-prestretched) cables. The top two cables are positioned within a wave shaped slot in the web of S75 x 8 (S3 x 5.7 English units) structural I-beam posts. The bottom two cables are supported on flanges of the I-beam post by an 8mm hook bolt with the open end down, with the lowest cable located on the median side flange and the next lowest cable located on the traffic side flange.

POTENTIAL USAGE

The Trinity Cable Safety System CASS S3 is installed in the medians between divided highways, shoulders and slopes. The Trinity Cable Safety System CASS S3 is designed to contain and redirect errant vehicles, thus preventing the vehicle from crossing the median. This system can be custom tailored for approximate deflections via variable post spacing.

STANDARDS

No standards submitted.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with 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:

Trinity Cable Safety System CASS S3 be listed as a Proven Product under Alberta Transportation Products List, Traffic Control Devices – Barrier Systems – Proprietary, based on the information provided.

TRIAL PROJECTS

Hwy. 16, 4 km east of Vermilion – installed in September 2011

Anthony Henday, Hwy 16 to N. of 87 Ave. (A total of 3.5 km)

Joe Filice

cc Innovations Evaluation Group – Roger Skirrow
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