

Product Evaluation

RE: Review of SKT 350 Sequential Kinking Terminal

PRODUCT

The SKT 350 Sequential Kinking Terminal is manufactured by Road Systems Incorporated located in Big Spring, Texas and distributed by Universal Roll Forming Incorporated located in Lindon, Utah, Roadside Supply Ltd located in Sherwood Park, Alberta and ATS Traffic Group located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The SKT 350 Sequential Kinking Terminal is an energy absorbing, tangent end terminal, designed to minimize the severity of impacts occurring at the end of the safety barrier system. During head on impacts the SKT 350 head slides over the W-beam guardrail. The rail is sequentially kinked or bent as it moves through the head safely and the vehicle is brought to a controlled stop. Product Web Link: <http://www.roadsystems.com/>

DESCRIPTION

The SKT 350 Sequential Kinking Terminal is 11.43 meters long and has 7 breakaway posts and is designed for attachment directly to w-beam guardrail. The SKT 350 tangential design allows it to be installed parallel to the roadway reducing the requirement for earthworks and site grading associated with traditional parabolic flared terminal designs. .

POTENTIAL USAGE

The SKT 350 Sequential Kinking Terminal has been approved as meeting the requirements and guidelines of NCHRP Report 350, Test Level 3 (TL-3) as a redirected, gating end treatment. This system uses all of the same components as the Fleet 350 system, except for the impact head.

STANDARDS

NCHRP 350 TL-3 Rated – FHWA approved

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 Thrie Beam and W-Beam Guardrail and Posts
- Specification 5.27, Supply of Cable Barrier and Metal Posts

RECOMMENDATIONS:

The The SKT 350 Sequential Kinking Terminal be listed as a Proven Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided.

TRIAL PROJECTS

Hwy 10:08, Hwy 585:02
12 systems on Hwy 40, 30 km S. of Grande Prairie

Joe Filice

cc Innovations Evaluations Group (IEG) – Abid Malik
Clayton Matwychuk/Richard Chow/Jim Poole/Bill Kenny/Jim Gavin