

Product Evaluation

RE: Review of ET-PLUS™ Guardrail End Treatment

PRODUCT

ET-PLUS Guardrail End Treatment is manufactured by Trinity Industries Inc. located in Dallas, Texas and distributed by Safe Roads Highway products located in Leduc, Alberta and Roadside Supply located in Sherwood Park Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

ET-PLUS Guardrail End Treatment system is designed to eliminate the hazards of guardrail ends while bringing a vehicle to a controlled stop. Product web link:

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

DESCRIPTION:

The ET-PLUS system comes in a package of 11.43 m or 15.24 m length with a post spacing of 1.905 m.

POTENTIAL USAGE:

ET-PLUS systems are designed to be used on w-beam guardrail ends.

STANDARDS:

ET-PLUS system meets or exceeds NCHRP Report 350 Level 3 for guardrail end treatments. ET-PLUS system has been approved by the Federal Department of Highways, the Ontario Ministry of Transportation and the Manitoba Ministry of Transportation and Highways.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has used the ET-PLUS Guardrail End Treatment system on the Deerfoot Trail in 2003.

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:

ET-PLUS Guardrail End Treatment system is **Temporarily Suspended – awaiting additional crash testing.**

TRIAL PROJECTS

- Hwy. 2A Eastbound to Hwy. 2 Northbound left side.
- End of double loop ramp from Hwy. 2A eastbound
- 300 m north of Hwy. 2A as it separates from Hwy. 2:15 northbound.
- Dunbar Road interchange both ends of the bridge.
- Hwy. 2:15 at 5.4 km northbound right side, 6.4 km northbound left side, 6.9 km southbound left side and 7.5 km southbound, right side.

Rishi Adhikari

cc Innovation Evaluation group – Roger Skirrow
Hal Cook/Bill Kenny/Jim Gavin