

**Product Evaluation**

**RE: Review of MAX-Tension Guardrail End Terminal - Tangent**

**PRODUCT**

MAX-Tension Guardrail End Terminal is manufactured and distributed by Lindsay Transportation Solutions located in Rio Vista, California.

**VENDOR CLAIMS AND INFORMATION**

**CLAIMS:**

The MASH compliant MAX-Tension™ tangent end terminal system utilizes a tension-based design along with an energy absorbing coupler. When impacted head-on, deceleration is controlled by friction developed in the tension cables and by cutting the downstream guardrail panels. When a side impact occurs, tension cables can help safely redirect a motorist away from the hazard. Nuisance impacts during snow removal and maintenance operations can also be minimized due to the narrow design of the MAX-Tension Impact Head. Product web link: <http://www.barriersystemsinc.com/maxtension-mash-end-treatment>

**DESCRIPTION:**

MAX-Tension Guardrail End Terminal is a re-directive gating system with the following specification: System Length - 8.2 m / 27', Effective Length - 15.24 m / 50', System Width - 445 mm / 17.5", Impact Head Width - 140 mm / 5.5", Impact Head Weight - 18.1 kg / 40lb., Length of Need - 2.9 m / 9' 5".

**POTENTIAL USAGE:**

Side of road where a recommended clear zone and recoverable slope is attainable

**STANDARDS:**

MASH (2009) Test Level 3

**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:**

MAX-Tension Guardrail End Terminal - Tangent 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**

Rishi Adhikari

cc New Product Evaluation Standing Committee – Roger Skirrow  
Hal Cook