

Product Evaluation

PRODUCT INFORMATION

Product Name: TAU-XR Parallel Re-directive, Non-Gating - Crash Cushion

Website: <https://www.lindsay.com/TAU-XR>

Manufacturer: Lindsay Transportation Solutions, LLC, Omaha, Nebraska, USA

Supplier: Barricades and Signs Ltd., Sturgeon County, AB

RE: Review of TAU-XR Parallel Re-directive, Non-Gating - Crash Cushion

VENDOR CLAIMS AND INFORMATION

CLAIMS

The crushable energy-absorbing aluminum tubes of TAU-XR are simple and intuitive to replace. The TAU-XR can be repaired in less than 30 minutes after head-on or side impacts, minimizing workers' exposure to traffic. The TAU-XR is designed for severe duty, built with structural steel rails and mid supports to minimize damage during impacts.

DESCRIPTION

The TAU-XR is a fully redirective, non-gating crash cushion designed to meet MASH 2016 Test Level 3 impacts. The TAU-XR system utilizes a rigid rail anchoring system, a backstop, a front support, 6 mid-supports and 14 telescoping three-beam side panels to form 7 collapsible bays. The bays are equipped with varying arrays of crushable aluminum tubes designed to absorb the kinetic energy and safely contain vehicles during head on impacts while the side panels safely redirect vehicles during side impacts. The system has a nominal 32 1/4" height, a 34 3/16" width except for at the front nose, which is 36" wide, and a length of 282 3/4". The system was designed and tested to safely shield hazards up to 30" wide. It can protect wider hazards up to 52" when used with tested transitions.

POTENTIAL USAGE

TAU-XR is designed specifically for high-frequency impact locations with the safety of maintenance workers as a top priority.

STANDARDS

MASH 2016 TL3

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Transportation and Economic Corridors has no experience with this product.

APPLICABLE STANDARDS

Alberta Transportation and Economic Corridors standard specifications for guardrail are:

Specification 2.19, Guardrail and Guideposts

Specification 5.25, Supply of W-Beam Guardrail and Posts.

RECOMMENDATIONS

TAU-XR™ Parallel Re-directive, Non-Gating - Crash Cushion be listed as a Reviewed Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided.

RESTRICTIONS ON USE

Caveat: The TAU-XR Parallel Re-directive, Non-Gating - Crash Cushion System is to shield hazards up to 30" (762mm) wide. This system is to be securely anchored to a minimum 6" (152mm) reinforced concrete foundation according to the anchoring and foundation specifications in the Installation Manual.

TRIAL PROJECTS

Stoney Trail NW, Calgary (51° 9' 34.499" N 114° 6' 43.658" W)

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cc New Products Evaluation Group – Kristen Tappenden,
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