

Product Evaluation**RE: Review of SCI100GM Smart Cushion TL3 Impact Attenuator****PRODUCT**

SCI100GM Smart Cushion Impact Attenuator is manufactured and distributed by Work Area Protection Corp. located in St Charles, Illinois.

VENDOR CLAIMS AND INFORMATION**CLAIMS:**

SCI100GM Smart Cushion is a fully redirective, non-gating, bidirectional Impact Attenuator, test level 3, low maintenance impact attenuator. It was designed for safety and reusability.

SCI100GM Smart Cushion is a speed dependent product that varies stopping resistance during an impact. This system allows lighter and slower moving vehicles to have longer ride down distances and lower ride down g-forces. Product web link:

<http://www.workareaprotection.com/attenuator.htm>

DESCRIPTION:

SCI100GM Smart Cushion consisting of a base, supporting frames, a sled, side panels, a wire rope cable, sheaves and shock arresting cylinder. The base is anchored to the mounting surface and provides support for the frames that are mounted on it. Product features: Variable force not fixed force; severe Duty Performance; Lower average ride down G forces; low angle of exit on side impacts; reduced snag potential on side impacts; minimal spare parts required; outstanding reset-ability.

POTENTIAL USAGE:

SCI100GM Smart Cushion comes fully assembled for a pick and set install. A typical installation can be performed in less than 90 minutes. SCI100GM Smart Cushion is self-supporting and requires no additional support for permanent and temporary construction applications.

STANDARDS:

NCHRP 350 and MASH TL-3 Rating

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:

SCI100GM Smart Cushion system 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

Joe Filice

cc New Product Evaluation Standing Committee – Roger Skirrow
Bill Kenny/Clayton Matwychuk