

Product Evaluation

RE: Review of SCI70GM Smart Cushion TL2 Impact Attenuator

PRODUCT

SCI70GM Smart Cushion Impact Attenuator is manufactured and distributed by Work Area Protection Corp. located in St Charles, Illinois.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

SCI70GM Smart Cushion is a fully re-directive, non-gating, bidirectional Impact Attenuator, test level 2 and 3 (TL2 and TL3). SCI70GM Smart Cushion is a speed dependent product that stops small and large vehicles by automatically regulating the stopping force exerted on a vehicle. This system provides the necessary forces based on the speed of the vehicle automatically compensating for the mass of the vehicle. Product web link:
<http://www.workareaprotection.com/attenuator.htm>

DESCRIPTION:

SCI70GM Smart Cushion is a re-directive, non-gating crash cushion attenuator that consists of a base, supporting frames, a sled, side panels, a wire rope cable, sheaves and a shock arresting cylinder. The base is anchored to the mounting surface and provides support for the frames that are mounted on it. The support frames hold the side panels that provide a flat outer re-directive surface for side impacts.

POTENTIAL USAGE:

SCI70GM Smart Cushion comes fully assembled for a pick and set install. A typical installation can be performed in less than 90 minutes. SCI70GM Smart Cushion is self-supporting and requires no additional support for permanent and temporary construction applications.

STANDARDS:

NCHRP 350 TL-2 and 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:

SCI70GM 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