

Product Evaluation

RE: Review of 110P-L SMA Crash Cushion

PRODUCT

110P-L SMA Crash Cushion is manufactured by Industry AMS, located in Marcianise, Italy and distributed by ATS Traffic located in Edmonton, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

110P-L SMA Crash Cushion has one of the smallest footprints to help reduce nuisance hits and unnecessary repairs. The nose section is reusable saving 12% on repair parts after every impact. 110P-L SMA Crash Cushion has successfully performed both crash test for the speed class 110 km/hr and test level 3 rated for 100 km/hr according to the American Standard NCHRP 350 and the European Standard EN 1317. Product web link:

<http://www.smaroadsafety.com/en/gamma/view/13/110ptl-3>

DESCRIPTION:

110P-L SMA Crash Cushion is made of electro-welded steel and homologated in class B with an ASI index between 0.8 and 1.2. 110P-L SMA Crash Cushion dimensions are 5900mm Length X 1110mm Width X 770mm Height.

POTENTIAL USAGE:

110P-L SMA Crash Cushion comes fully assembled and ready for installation. The 110P-L SMA Crash Cushion is expected to be capable of remaining in the service environment without requiring maintenance for a period of twenty years from the date of installation provided it is not impacted. Head on impacts do not require replacement nose section providing a 12% savings in replacement parts.

STANDARDS:

NCHRP 350 and EN 1317

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:

110P-L SMA Crash 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