

RE: Review of Zoneguard Steel Barrier System

PRODUCT

The Zoneguard Steel Barrier System is manufactured by Hill and Smith Incorporated located in Columbus, Ohio and distributed by Barricades and Signs Traffic Professionals located in Sturgeon County, Alberta.

VENDOR CLAIMS AND INFORMATION

CLAIMS

The Zoneguard Steel Barrier System is a durable, portable steel traffic barrier, designed to protect highway travelers as well as road and construction crews. The Zoneguard Steel Barrier System is the most extensively tested and the most cost efficient portable positive protection system available in the United States. Product Web Link: <http://www.hillandsmith.com/>

DESCRIPTION

The Zoneguard portable longitudinal Steel Barrier System is comprised of 4.2mm thick, ASTM A36 pressed, galvanized steel panels assembled in 15.24m long sections. Each section is 820mm high with a base width of 700mm and a top beam width of 157mm. Each Zoneguard section weighs approximately 1406 kg. The base of each 15.24m long section has 12 rubber feet (700mm X 165mm X 13mm) which are fixed using an adhesive compound.

POTENTIAL USAGE

The Zoneguard Steel Barrier System is available in lengths of 15.24m and can be delivered up to 230m in length per truck load. The lightweight barrier system is installed quickly (up to 300m per hour) and can be installed on curves down to 250m radius.

The Zoneguard Steel Barrier System is tested to meet NCHRP – 350 TL – 3 & 4, test requirements.

STANDARDS

NCHRP 350

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE

Alberta Transportation has no experience with this product

APPLICABLE STANDARDS

The Alberta Transportation specifications for guardrail are:
Specification 2.19, Guardrail and Guideposts
Specification 5.25, Supply of W-Beam Guardrail and Posts
Specification 5.27, Supply of Cable Barrier and Metal Posts

RECOMMENDATIONS:

Zoneguard Steel Barrier System be listed as a Proven Product under Alberta Transportation Products List, Traffic Control Devices – Barrier Systems – Proprietary, based on the information provided.

TRIAL PROJECTS

Highway 2 Nisku 2017-2018, Highway 2 north of Airdrie (2017), Whitemud Drive and Grierson Hill Edmonton

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