

Product Evaluation

RE: Review of Defender Barrier 100FS

PRODUCT

Defender Barrier 100FS is a steel barrier system manufactured and distributed by Safe Barriers North America LLC located in Miramar Beach, Florida, USA. Website: <https://www.safebarriers.com/>

VENDOR CLAIMS AND INFORMATION

CLAIMS

Free Standing Defender Barrier offers a barrier system that gives safety standards that far exceed those offered by water filled barriers, with deflections that are close to those offer by many regular high speed barrier systems without the need for water or anchors. Optional ballast boxes are fitted to the core Defender Barrier, to give you a barrier system that requires no anchoring. In a standard work zone of 80 kph with two lanes of traffic the deflection is normalized at less than half a metre. This is far better than any plastic product and as good as many other heavier barriers. Free Standing Defender Barrier is tested at both 70 kph (TL2) and 100 kph (TL3) test standards.

DESCRIPTION

Defender Barrier 100FS is a temporary anchored steel barrier designed and tested to MASH16 standards for use in workzones and security applications. The smaller barrier length (3.9m) and E-joint connection allows for gradients and radii reducing the need for specialized angled pieces.

POTENTIAL USAGE

Each Anchored Defender Barrier is of 3.9 m length, 0.8 m height, 320 kg weight. The system is ideal in areas where underground services are an issue or where there is a need to regularly move the system during the project.

STANDARDS

MASH 16 TL2 and TL-3

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

Defender Barrier 100FS be listed as a Potential Product under Alberta Transportation Products List, Traffic Control Devices – Barrier Systems – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat: Defender Barriers are to be used at work zone only. Selection of Defender Barrier type to be based on site-specific conditions and allowable deflection.

TRIAL PROJECTS

Rishi Adhikari
cc Innovations Evaluation Committee – Roger Skirrow,
Hal Cook