

Product Evaluation

RE: Review of Defender Barrier 100 LDS

PRODUCT

Defender Barrier 100 LDS 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

Anchored Defender Barrier is the core Defender Barrier system engineered, designed and tested to offer the highest level of site safety by complying with the latest MASH 16 test standards. It is tested to MASH 16 TL3 and TL-4 making it suitable for deployment in high-speed work zones to 100 kph. It can give the certainty of being able to perform when impacted by the bigger and heavier modern vehicle fleet. The system is designed to be simple to install. If the site requires low deflection because of tight workspace, the system is deployed as Defender 100 LDS, with the supplied pins installed at every second barrier. If there is room to move installation costs can be reduced by deploying as 100 HC, by pinning every 12th barrier. Defender barriers has also been tested on a surface comprised only of AASHTO soil with no asphalt or seal to ensure that the system will still perform as expected.

DESCRIPTION

Defender Barrier 100 LDS 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 and is rated for 100 km/ hr.

STANDARDS

MASH 16 TL3 and TL-4

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 100 LDS be listed as a Trial Product under Alberta Transportation Products List, Traffic Control Devices – Steel 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

Deerfoot project, Tender #: CON23535 – Installed at Work Zone in May 2024

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