Safety Barrier Technical Conditions for Use

Defender Barrier 100 LDS Steel Safety Barrier - Temporary

Issue Date: 5 June 2018 | **Supplier:** Safe Barriers Pty Ltd

These conditions take precedence over any instructions in the Product Manual.

This document is a summary of the Austroads Safety Barrier Assessment Panel's assessment of the technical performance of the product against AS/NZS 3845 Parts 1 or 2 only. It does not consider procurement practices by individual Road Agencies.

The Austroads Safety Assessment Panel may at any time, withdraw or modify this Technical Conditions for Use without notice.

These acceptance conditions should be read in conjunction with the Product Manual and Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers.

Acceptance of this product does not place any obligation on the Northern Territory Government or its contractors, to purchase or use the product.

Status	**Recommended for Acceptance**
Product accepted	Defender Barrier 100 LDS Steel Safety Barrier - Temporary Variants • Nil Variants that are NOT listed above are NOT recommended for acceptance.
Product manual reviewed	D100LDS-M-1804 – April 2018
Product manual	https://www.safebarriers.com/wp-content/uploads/2018/04/D100LDS-M-1804_Installation_Manual_1_4_1.pdf

Design Requirements

Containment level	Accepted speed (km/h)	Vehicle mass (kg)	Point of redirection (m)		Minimum redirective length (m)	Anchor/post spacing (m)	Dynamic deflection (m)	Working width (m)	Notes/Conditions
			Leading	Trailing					
MASH TL-3	100	2,270	0	0	78	9.15	0.88	1.56	

Approved Connections

Terminals must be fitted to both ends of the barrier	
Public Domain Products	
W-Beam Guardrail	Not permitted
Thrie-Beam Guardrail	Not permitted
Temporary Concrete Type-F	Not permitted

Proprietary Products	
UNIVERSAL TAU-II Steel Rail Crash Cushion	• Refer to UNIVERSAL TAU-II Steel Rail Crash Cushion acceptance document for conditions of use. • The TAU-II to Defender Barrier 100 LDS transition must be used to connect the terminal to the barrier. • Not permitted as a terminal on a flare. • Transition must be pinned in accordance with the installation manual.

Design Guidance

Installation	This product must be installed and maintained in accordance with the Product Manual and Road Agency specifications. Road Agency specifications and standards shall have precedence.
System width (m)	0.68
Minimum distance to excavation	0.88 metres.
Slope limit	Side slope limit: 10 Horizontal to 1 Vertical (10%).
Systems conditions	1. Installation on top of a kerb is not recommended, however if installed on top of a kerb, all system components must be free to operate. 2. Flaring across the clear zone without a terminal listed below is NOT permitted.
Gore area use	Permitted
Pedestrian area use	Permitted – consider potential for snagging and deflection.
Cycleway use	Permitted – consider potential for snagging and deflection.
Frequent impact likely	Permitted
Remote location	Permitted
Median use	Permitted

Foundation Pavement Conditions					
Pavement	**Use**	**Accepted Speed (max)**	**Post/pin spacing (m)**	**Post/pin type**	**Pavement construction**
Asphaltic concrete over granular pavement	Permitted	100	9.15	30mm diameter x 500mm length steel ground anchor (no chemical)	150mm AC 150mm compacted sub base

Note: Installation in pavement conditions not listed above have not been justified to the Panel's satisfaction.