Safety Barrier Technical Conditions for Use

DEFENDER Barrier 70 Steel Safety Barrier - Temporary

Issue Date: 1 December 2021 | **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	3.9 metre DEFENDER Barrier 70 Steel Safety Barrier – Temporary - The Defender Barrier 70 requires the addition of three (3) Ballast Boxes which are filled with concrete. Ballast Box washers shall be clearly identifiable for ease of inspection. Variants Variants that are NOT listed above are NOT recommended for acceptance.
Accepted Speed	70 km/h
Product Manual reviewed	D70-M-2108 Version 3.1 September 21
Product Manual	https://www.safebarriers.com/wp-content/uploads/2021/02/D70-M-2102-Installation-Manual-V3.0.pdf

Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Dynamic Deflection (m)	Working Width (m)	Notes
	Leading (m)	Trailing (m)					
MASH TL2	39	39	105	Freestanding with ballast	1.2	1.88	

Approved Connections

An accepted end treatment must be provided at both ends of all barrier installations	
Public Domain Products	
W-Beam Guardrail	Not Permitted
Thrie-Beam Guardrail	Not Permitted
Concrete	Not Permitted

Proprietary Products	
LEGACY: ABSORB 350 Plastic Terminal	• **LEGACY status recommended from 1 January 2021.** • **The installation is restricted to an impact speed of 70 km/h or less.** • Refer to ABSORB 350 Terminal Technical Conditions for Use. • The Defender 70 to AB350 Terminal transition must be used to connect the terminal to the barrier. • This is a gating device.
ABSORB-M Crash Cushion	• Refer to Absorb-M Crash Cushion Technical Conditions for Use. • The Defender 70 to Absorb-M Crash Cushion transition must be used to connect the crash cushion to the barrier. • This is a gating device.
SLED Plastic Water Filled Crash Cushion	• Refer to SLED Plastic Water Filled Crash Cushion Technical Conditions for Use. • The Defender 70 to SLED Crash Cushion transition must be used to connect the crash cushion to the barrier. • This is a gating device.

Design Guidance

Minimum installation length	105 metres between crash cushions/terminals (tested article)
System width (m)	0.68
Minimum distance to excavation (m)	1.20 - measured from the outer edge of the foot on the works side
Slope limit	10%
Systems conditions	1. Installation on top of a kerb is not recommended. 2. All offsets are to be measured from the relevant outer edge of the foot. The foot is not trafficable. 3. Each Defender Barrier 70 unit requires the installation of three (3) Ballast Boxes which are filled with concrete. Ballast Box washers shall be clearly identifiable for ease of inspection.
Gore area use	Not permitted
Pedestrian area use	Permitted
Cycleway use	Permitted
Frequent impact likely	Permitted
Remote location	Permitted
Median use	Permitted

Foundation Pavement Conditions					
Pavement Type	**Use**	**Max Accepted Impact Speed (km/h)**	**Post/Pin Spacing (m)**	**Post/Pin Type**	**Pavement Construction**
Concrete	Permitted	70	Freestanding Foundation pavement conditions must be smooth and free of snag points, kerbs or obstructions that may interfere with the operation of the product		
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					
Unsealed compacted formation					

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