


Safety Barrier Technical Conditions for Use

SAFETY ROLLER Steel Rail Safety Barrier - Permanent

	Issue Date: 4 April 2023	Supplier: Ambient Technologies Pty Ltd
	<p>These conditions take precedence over any instructions in the Product Manual.</p> <p>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.</p>	
	<p>The Austroads Safety Assessment Panel may at any time, withdraw or modify this Technical Conditions for Use without notice.</p>	
	<p>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.</p> <p>Acceptance of this product does not place any obligation on the Northern Territory Government or its contractors, to purchase or use the product.</p>	

Status	Accepted – may be used on the classified road network
Product accepted	SAFETY ROLLER <u>Variants</u> Nil Variants that are NOT listed above are NOT recommended for acceptance.
Accepted speed	100 km/h
Product manual reviewed	Version 1.0 – dated 15 May 2013
Product manual	http://ksiglobal.com.au/safety-roller-crash-barrier/

Design Requirement

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 TL3	4.98 from the interface between barrier and end treatment		60	Refer drawings	0.3	0.67	
MASH TL4	29.2 from the interface between barrier and end treatment		60	Refer drawings	0.3	4.85	

Approved Connections

Crash Cushions or Terminals must be fitted to both ends of a barrier	
Public Domain Products	
W-Beam Guardrail	Not Permitted
Thrie-Beam Guardrail	Not Permitted
Concrete	Not Permitted

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Proprietary Products	
ACCEPTED W-BEAM TERMINAL	<ul style="list-style-type: none"> The accepted transition must be used to connect the terminal to the barrier.

Design Guidance

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	
Minimum installation length	60 metres between crash cushions/terminals (tested article)
System width (m)	0.37
Minimum distance to excavation (m)	1.85 (being 1.5 times the embedment depth of the anchor)
Slope limit	Not specified
Systems conditions	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.
Gore area use	Permitted
Pedestrian area use	Permitted
Cycleway use	Permitted
Frequent impact likely	Permitted
Remote location	Permitted
Median use	Permitted

Foundation Pavement Conditions					
Pavement	Use	Max Accepted Impact Speed (km/h)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Permitted	100	Refer to drawings		Minimum AASHTO Standard Soil strength
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					
Unsealed compacted formation					

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