


Safety Barrier Technical Conditions for Use

HERCULES Steel Crash Cushion – Permanent and Temporary

	Issue Date: 2 March 2023	Proponent: Safe Direction
	<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	HERCULES Steel Crash Cushion <u>Variants</u> Nil Variants that are NOT listed above are NOT recommended for acceptance.
Accepted impact speed	100 km/h
Product manual reviewed	PM 034/01
Product manual	https://www.safedirection.com.au/products/guardrail-products/road-barriers/crash-cushions/hercules/?qclid=EA1aIQobChMljr2lubuQ9wIVApNmAh0ERQP4EAAYASAAEgJuEPD_BwE

Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Notes
	Leading (m)	Trailing (m)			
MASH TL2	Fully redirective		4.40	Refer to drawings	
MASH TL3	Fully redirective		5.83	Refer to drawings	

Approved Connections

<i>An accepted end treatment must be provided at both ends of all barrier installations</i>	
Public Domain Products	
W-Beam Guardrail	Not Permitted
Thrie-Beam Guardrail	Not Permitted
Concrete	Permitted - reverse impacts into the transition section can produce a greater occupant severity value than preferred. Where reverse impacts are possible (e.g. bidirectional traffic) a risk assessment must be completed and steps to mitigate the likelihood of reverse impact should be implemented.
Proprietary Products	
	Refer to Safety Barrier Technical Conditions for Use for approved connections

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Design Guidance

System length (m)	TL2 - 4.40 TL3 - 5.83
System width (m)	0.59
Slope limit	8%
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 Type	Use	Max Accepted Impact Speed (km/h)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Permitted	100	Refer to drawings	M24 x 200mm threaded rod with epoxy	Installation on concrete pavement or pad is permitted in accordance with manufacturer's drawing
Deep lift asphaltic concrete	Permitted	100	Refer to drawings	M24 x 350mm threaded rod with epoxy	
Asphaltic concrete over granular pavement					
Flush seal over granular pavement	Not Permitted				
Unsealed compacted formation					

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