Safety Barrier Technical Conditions for Use

UNIVERSAL TAU-M Crash Cushion – Permanent & Temporary



Issue Date: 4 March 2021 Supplier: Australian Construction Products

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		
	UNIVERSAL TAU-M Crash Cushion		
Product accepted	<u>Variants</u>		
	Variants that are NOT listed above are NOT recommended for acceptance.		
Accepted Speed	70 km/h (TL2) 100km/h (TL3)		
Product Manual reviewed	P/N TAU-M (ECN 3883)		
Product Manual	https://www.safedirection.com.au/wp-content/uploads/2023/04/Installation-Manual-Universal-T Crash-Cushion.pdf		

Design Requirements

Containment Level	Point of Redirection (m)		Tested Article Length	Anchor/Post Spacing	Notes
	Leading	Trailing	(m)	(m)	Notes
MASH TL2	Fully redirective		4.33	Refer to drawings	
MASH TL3	Fully redirective		6.93	Refer to drawings	



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Approved Connections

An accepted end treatment must be provided at both ends of all barrier installations				
Public Domain Products				
W-Beam Guardrail	Permitted – Reverse impacts into the transition section can produce a greater occupant severity			
Thrie-Beam Guardrail	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			
Concrete	implemented.			
Proprietary Products				
	Refer to Safety Barrier Technical Conditions for Use for approved connections			

Design Guidance

System length (m)	4.33 (TL2) 6.93 (TL3)	
System width (m)	0.76	
Side slope limit	7%	
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	M20 x 210mm threaded rod with epoxy	Installation on concrete pavement or pad is permitted in accordance with manufacturer's drawing	
Deep lift asphaltic concrete Asphaltic concrete over granular pavement	Permitted	100	Refer to drawings	M20 x 460mm threaded rod with epoxy	Min 150mm AC 150mm sub-base	
Flush seal over granular pavement Unsealed compacted formation	Not permitted					

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