


# Safety Barrier Technical Conditions for Use

## DELTA Crash Cushion – Permanent

	<b>Issue Date:</b> 30 June 2021	<b>Proponent:</b> Traffix Devices, Inc.
	<p><b>These conditions take precedence over any instructions in the Product Manual.</b></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>	

<b>Status</b>	<b>Recommended for Acceptance</b>
Product accepted	DELTA Crash Cushion  <u>Variants</u>  Variants that are NOT listed above are NOT recommended for acceptance.
Accepted impact speed	100 km/h
Product manual reviewed	Revision A1 – 11/06/2021
Product Manual	<a href="https://www.traffixdevices.com/products/attenuators/delta">https://www.traffixdevices.com/products/attenuators/delta</a>

### Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Notes
	Leading (m)	Trailing (m)			
MASH TL3	Fully redirective		6.4	Refer to drawings	

### Approved Connections

<b><i>An accepted end treatment must be provided at both ends of all barrier installations</i></b>	
<b>Public Domain Products</b>	
W-Beam Guardrail	Permitted – forward direction only
Thrie-Beam Guardrail	
Concrete	Permitted
<b>Proprietary Products</b>	
Refer to Safety Barrier Technical Conditions for Use for approved connections	

**Design Guidance**

System Length (m)	6.40
System width (m)	0.765
Side slope limit	10%
System 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	M22 x 200mm threaded rod with epoxy	Installation on concrete pavement or pad is permitted in accordance with the manufacturer's drawings (Delta Rebar Foundation Detail I1005 Rev A)
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
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.