

Scorpion II MASH Trailer Attenuator

Product summary

Status	Accepted
Category	Trailer Attenuator
Test Level	Test Level 3 (MASH): 100km/h
Supplier	A1 Roadlines Pty Ltd
Description	Trailer Attenuator



Figure 1. Scorpion II MASH Trailer Attenuator

Introduction and purpose

This detail sheet is intended to supplement *VicRoads Road Design Note 06-04 - Accepted Safety Barrier Products*. Please refer to RDN 06-04 for the current VicRoads acceptance status, information on the product assessment process and general acceptance conditions.

The technical details within this document have been extracted from information submitted to VicRoads by the Supplier and the recommended 'Conditions for Use' from the Austroads Safety Barrier Assessment Panel (ASBAP).

VicRoads requirements take precedence over the product manual and Austroads conditions. Where a departure from these requirements is required, users should understand the risks and document their engineering decisions.

For more detailed product information, refer to the individual product manual or contact the System Supplier.

Technical information

The Scorpion II TMA should be designed, installed and maintained in accordance with the following VicRoads conditions for use.

These conditions for use have been based on an Austroads assessment of technical performance against AS/NZS 3845 and contain VicRoads specific requirements when necessary.

Summary Conditions for Use

Accepted configuration	Scorpion II MASH Trailer Attenuator
Variants	Nil
Tested Roll Allowance	6.2m
Product manual reviewed	PN 13083 Revision A1 Dated 1/10/2019
ASBAP issue	9 March 2020

Refer *VicRoads conditions for use (below)*.

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VicRoads Conditions for Use

Performance requirements

This product must be deployed and maintained in accordance with the Product Manual and Road Agency specifications. Road Agency specifications and standards shall have precedence.			
Containment Level		MASH TL3	
Accepted Speed (km/h)		100 km/h	
Support Vehicle Mass Including Ballast	Minimum (kg)	6150	
	Maximum (kg)	Not applicable	
Roll Ahead Distance (m)		6.2	
TMA Dimensions And Weight	Length (mm)	5400	
	Width (mm)	2400	
	Height (mm)	910	
	Weight (kg)	873	
TMA Road Clearance (mm)		Not applicable	

System Conditions

System conditions	<ol style="list-style-type: none">1. Support vehicle and trailer must be compliant with local vehicle regulations2. Pintle hook and backing plater must be structurally certified3. Support vehicle should not have secondary braking restraint (chocked).4. TMA must be inspected prior to each deployment to ensure no damage to outer casing and support.5. Support vehicle must be deployed in second gear with handbrake engaged6. TMA must be deployed in a straight alignment to the host vehicle
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Other considerations and comments

Support vehicle mass

The support vehicle mass is the gross weight with ballasts attached. Vehicle mass limits must be in accordance with any National and/or VicRoads requirements.

Damaged components

Damaged components must be replaced. Repaired components must not be used.

Deployment and operation

TMAs must be deployed and operated in accordance with National and State requirements, specifically where operational best practice is prescribed.

References

- Product Installation Manual and Product Operational Manual refer licensed product supplier website.
- VicRoads Road Design Note 06-04 Accepted Safety Barrier Products.
- VicRoads Guidelines for the use of Truck Mounted Attenuators (TMAs).
- Road Management Act 2004 Code of Practice, Worksite Safety – Traffic Management.

Detail Sheet – Update Summary

Issue	Approved	Amendment
May 2020	M-SSE	First edition