

# VEVA3 Median Steel Gate

## Product summary

<b>Status</b>	Accepted
<b>Category</b>	Permanent – Median gates
<b>Test Level</b>	EN1317 TB11: 100km/h
<b>Supplier</b>	Traffic Tech Pty Ltd
<b>Description</b>	VEVA3 is an automated median gate which can be installed for traffic control in either direction. The VEVA3 can also be fitted with an impact buffer to protect oncoming traffic.

Refer: Road Design Note 06-04 Accepted Safety Barrier Products

## 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).

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

***VicRoads requirements take precedence over any product manual and Austroads conditions where conflicting.***

## Technical information

The VEVA3 Gate 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

<b>Accepted configuration</b>	VEVA3 Median Steel Gate.
<b>Variants</b>	Optional buffer element
<b>Deflection</b>	1.5m (100km/h)
<b>Product manual reviewed</b>	Version 2.2 dated 5 May 2015.
<b>ASBAP issue</b>	22 August 2016
<b>Connections</b>	Thrie-beam Guard Fence Permanent Concrete Safety Barrier

Refer *VicRoads conditions for use (below)*.

## VicRoads Conditions for Use

### Tested design requirements

Containment level	Speed (km/h)	Vehicle mass (kg)	Point of Redirection (m)*		Maximum length of barrier (m)	Anchor/Pin Spacing (m)*	Dynamic deflection (m)	Working width (m)	Notes
			Leading	Trailing					
TB 11	100	900	N/A	N/A	75	N/A	0.38	1.38	
TB 51	70	13000	N/A	N/A	75	N/A	1.5	2.5	Capacity test (TB 51) to be used during design

### Approved Terminals and Connections

<i>Crash Cushions or Terminals must be fitted to both ends of a barrier</i>	
<b>Public Domain Products</b>	
W-Beam Guardrail	Not permitted
Thrie-Beam Guardrail	Permitted
Permanent Concrete Safety Barrier	Permitted
<b>Proprietary Products</b>	
	Not permitted

### Design Guidance

System width (m)	1.0
Installation	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 distance to excavation	Not applicable
Slope limit	Side slope limit: 10 Horizontal to 1 Vertical (10%).
Systems conditions	<ol style="list-style-type: none"> <li>1. Site specific design required.</li> <li>2. Maximum gate opening is 75 metres.</li> <li>3. Only to be installed on straight horizontal alignments.</li> <li>4. Installation on top of a kerb is not permitted.</li> </ol>
Gore area use	Not applicable
Pedestrian area use	Not applicable
Cycleway use	Not applicable
Frequent impact likely	Not Permitted
Remote location	Permitted
Median use	Permitted

## Foundation pavement conditions

Submitted Foundation Pavement Conditions					
Pavement	Use	Accepted Speed (max)	Post/pin spacing (m)	Pavement construction	Post/pin type
Concrete	Permitted	100 km/h	N/A	Subject to support wheel load	The VEVA3 modules are self-supporting. Every 6 metre module has 4 rubber feet to provide enough friction with the floor.
Deep lift asphaltic concrete	Permitted	100 km/h	N/A	Subject to support wheel load	
Asphaltic concrete over granular pavement	Not Permitted				
Flush seal over granular pavement	Not Permitted				
Unsealed compacted formation	Not Permitted				
Natural surface	Not Permitted				

## VicRoads specific conditions and comments

Where a departure from these requirements is required, users should understand the risks and apply engineering judgement.

The VEVA3 median steel gate is founded at both ends of the barrier, near the hinges. The hinges are attached to foundation frames, which are mounted on a concrete block.

Each installation of the VEVA3 median gate must establish an appropriate maintenance plan and operating procedure, in collaboration with the System Supplier, to ensure reliable use of the product.

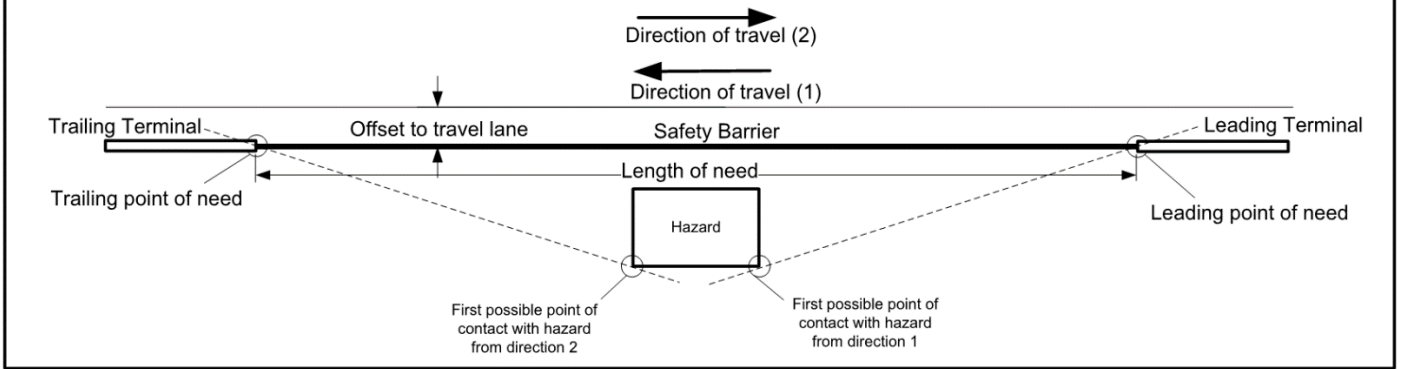
## References

- Austroads Guide to Road Design – Part 6.
- Product Installation Manual and Product Operational Manual refer licensed product supplier website.
- VicRoads Road Design Note 06-04 Accepted Safety Barrier Products.
- VicRoads Supplement to Austroads Guide to Road Design – Part 6.

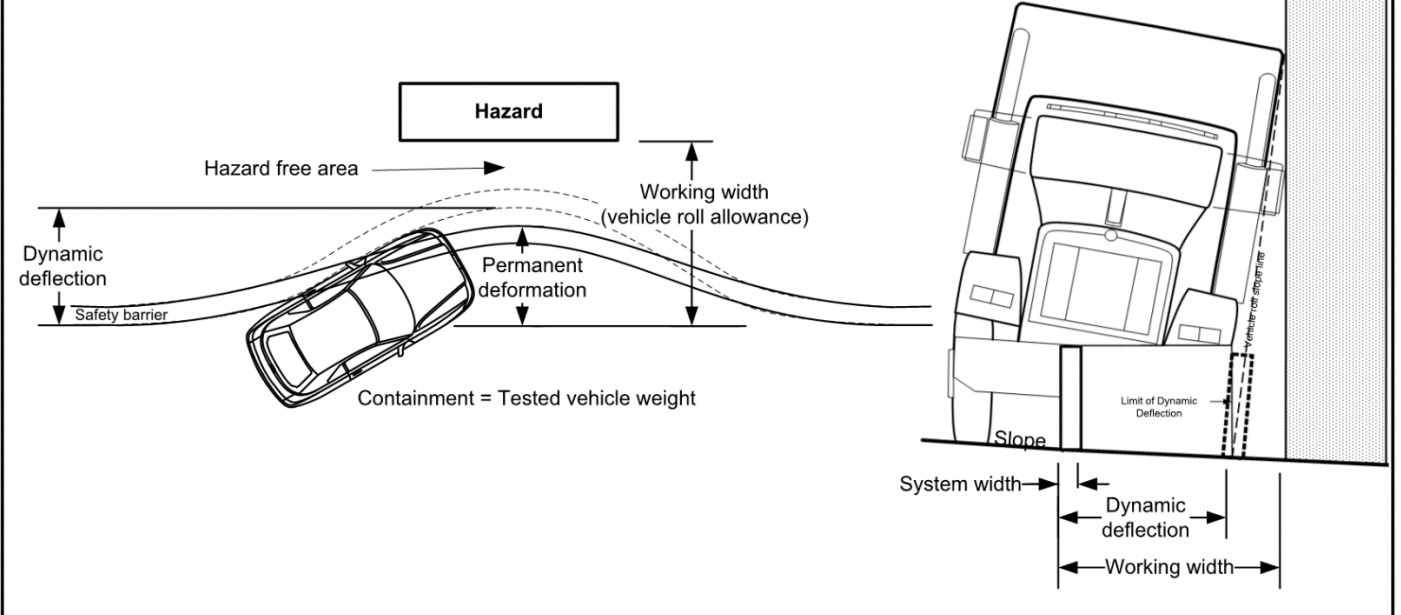
## Detail Sheet – Update Summary

Issue	Approved	Amendment
Feb 2018	M-SSD	First edition

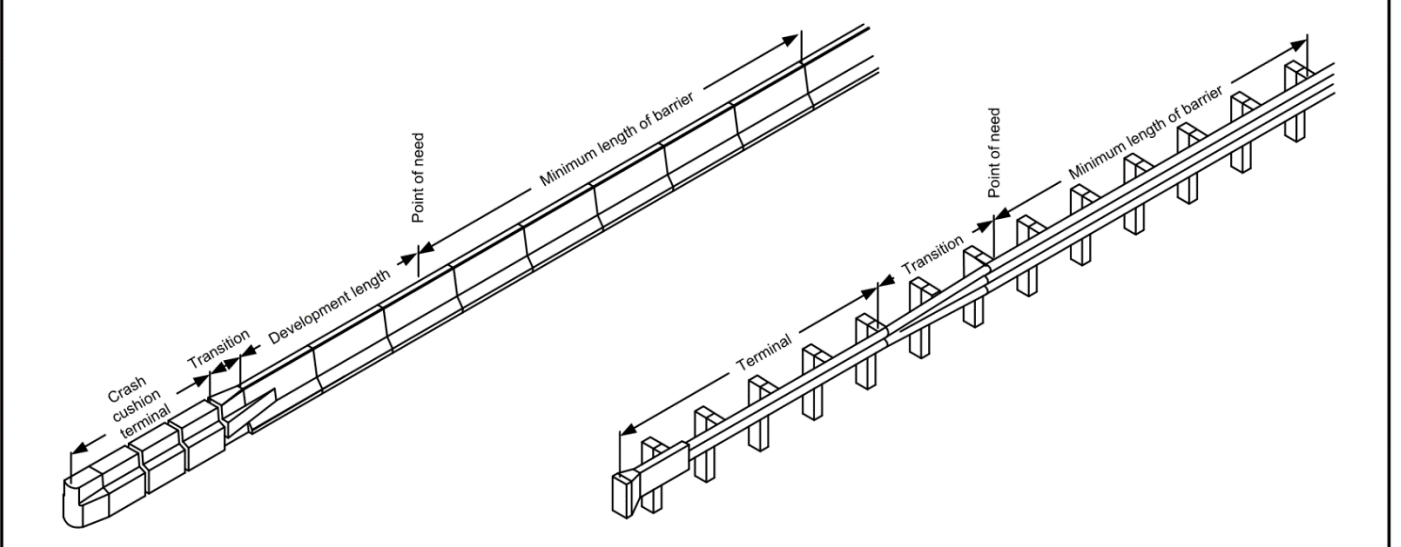
### Design Terminology



### Deflection Terminology



### Terminal Terminology



### Flare Terminology

