

DETAIL SHEET

ARMORGUARD STEEL RAIL GATE

VicRoads Requirements

Refer to Austroads - Safety Barrier System Acceptance Conditions for the ARMORGUARD Steel Rail Gate. All requirements listed by Austroads have been adopted by VicRoads for use on the Victorian declared road network.

In this instance, VicRoads applies no additional requirements/conditions for use of ARMORGUARD Steel Rail Gate on the Victorian declared road network.

References

- Product Installation Manual and Product Technical Brief [refer licensed product supplier website](#)
- VicRoads Road Design Note 06-04 Accepted Safety Barrier Products





For further information please contact:

VicRoads Technical Services
60 Denmark Street
Kew, Vic, 3101
Telephone: 8391 7192

Accepted safety barrier products are subject to periodic review and the information provided in this document may be superseded. Please refer to *Road Design Note 06-04 – Accepted Safety Barrier products* for the current VicRoads acceptance status.

Safety Barrier System Acceptance Conditions

ARMORGUARD Steel Rail Gate

 	Proponent	Australian Construction Products Pty Ltd
	Proponent email	sue.walker@csppacific.co.nz
	Date Issued	30 June 2014

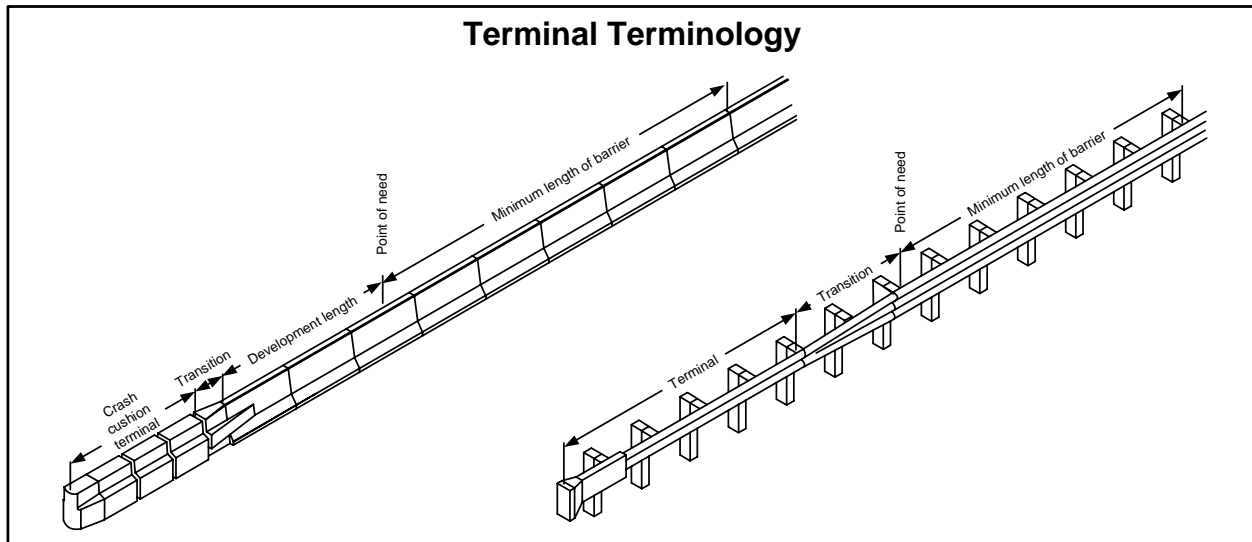
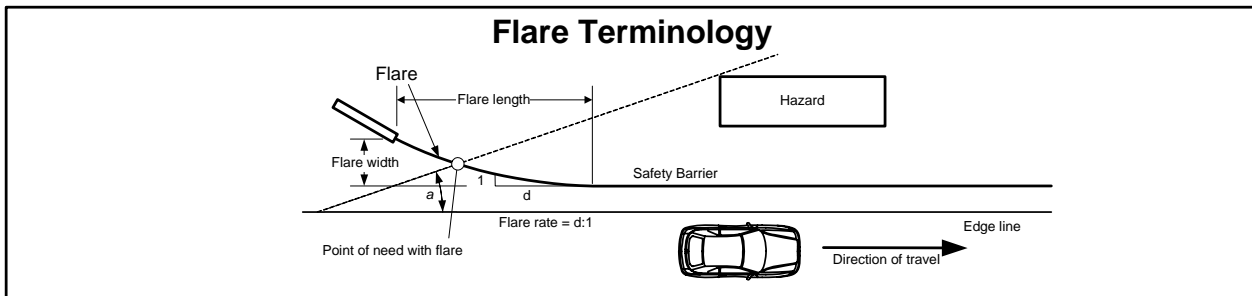
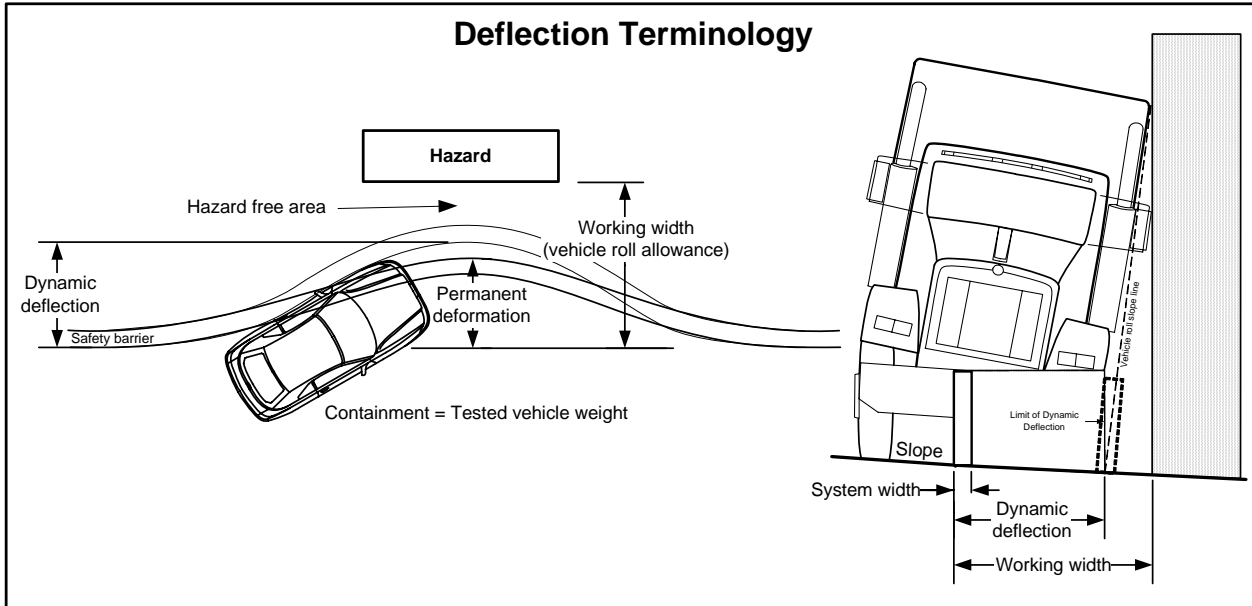
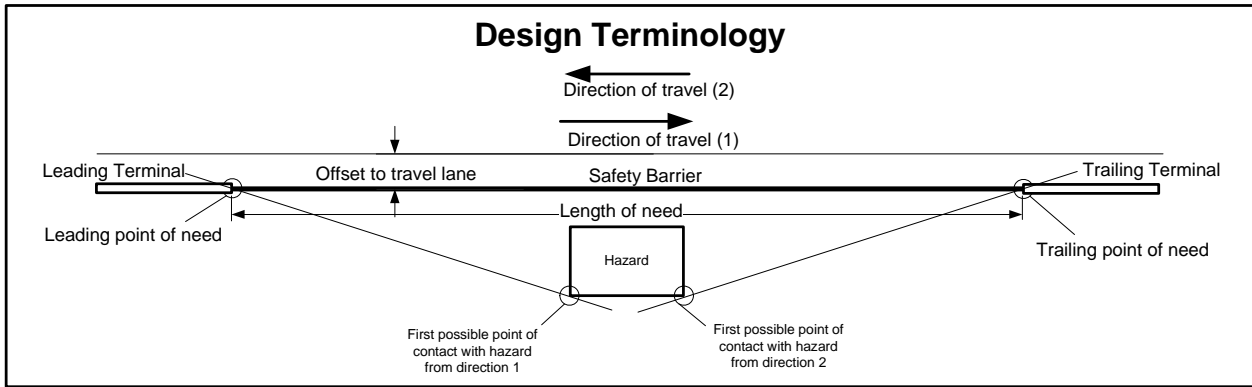
Status	Accepted – May be used on the classified road network.
Variants accepted	<ul style="list-style-type: none"> • 8 metre ARMORGUARD Steel Rail Gate in a permanent Type F concrete barrier. • 12 metre ARMORGUARD Steel Rail Gate in a permanent Type F concrete barrier. • 16 metre ARMORGUARD Steel Rail Gate in a permanent Type F concrete barrier.
Variants NOT accepted	<ul style="list-style-type: none"> • Variants that are not on the list above are not accepted. • Variants accepted in other jurisdictions, but not accepted in the local jurisdiction, are NOT permitted.

Speed limit (km/h)	100 km/h. Permanent barriers accepted for 100km/h may be used in 110 km/h speed zones.
Tested containment (kg)	2,000 kg at 100 km/h and 25°.
Adopted dynamic deflection (Nominal 2 tonne vehicle)	100 km/h 0.6 metres.
	80 km/h Use 100 km/h deflection.
	70 km/h Use 100 km/h deflection.
	Deflections shown will be exceeded with high mass vehicles. Refer to Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers Section 6 for design advice.
Point of need	Not applicable.
Development length	Not applicable.
Minimum length of barrier between terminals	Not applicable.
System width (m)	0.7 metres.

System conditions	<ol style="list-style-type: none"> 1. Maximum gate opening is 16 metres. 2. Only to be installed on straight horizontal alignments. 3. Installation on top of a kerb is not permitted.
Terminal conditions	Not applicable.
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.
Minimum median width (m)	0.7 metres.

Flare rate (See Explanation of Terms diagram)	Not Applicable.	
Offset to travel lane (m)	Refer to Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers, Section 6.3.5.	
Hazard free area beside barrier or terminal (Working Width)	Refer to Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers, Section 6.3.16.	
Installation	The ARMORGUARD Steel Rail Gate must be installed and maintained in accordance with the Product Manual and road authority specifications. The road authority specifications and standards shall have precedence.	
Minimum distance to excavation	Not applicable.	
Slope limit	Side slope limit: 33 Horizontal to 1 Vertical (3%). Longitudinal slope limit: 3%	
Foundation pavement conditions	Concrete	Permitted.
	Deep lift Asphaltic Concrete	Permitted when installed on a concrete slab, including the hinge section.
	Asphaltic concrete over granular pavement	Permitted when installed on a concrete slab, including the hinge section.
	Flush seal over granular pavement	Permitted when installed on a concrete slab, including the hinge section.
	Unsealed compacted formation	Not Permitted.
	Natural surface	Not Permitted.
	Foundation pavement conditions must be smooth and free of snag points, kerbs or obstructions that may interfere with deflection of the barrier.	
Attachments and screens	<p>Visual screens, debris screens, platforms for workers and other non-product hardware must not be attached to the product.</p> <p>Screens may be placed adjacent to the side of the product not exposed to traffic. The distance between the screen and the product shall be determined by a site specific risk assessment that considers the deflection distance.</p> <p>Screens must not have horizontal members that present a risk of impaling errant vehicles that impact the product.</p>	
Damaged components	Damaged components must be replaced. Repaired components must not be used.	
Delineation	The installed system shall include delineation as prescribed by road authority specifications and drawings.	
Traceability and markings	<p>Product markings shall be in accordance with marking/s prescribed by the current Australian/New Zealand Standard "AS/NZS 3845 Road Safety Barrier Systems" and road authority specifications. Traceability details that must be permanently fixed to the product are:</p> <ul style="list-style-type: none"> • Name of the product. • Model or version details of the product, if applicable. • Manufacturer or distributor name. • Batch number, if applicable. • Serial number, if applicable. • Date of manufacture. <p>Traceability details must easily visible but unobtrusive and not be in a form that becomes prominent advertising. No advertising shall be displayed on the installation.</p>	

	Traceability must be in a form that will not be erased with use.
Notes	Acceptance is based on drawings in the Product Manual supplied by the Proponent, dated May 2007. This acceptance will cease if there is any change in the product design or specifications.
	Only the Product Manual prepared by the Proponent shall be used in any marketing of the product.
	Acceptance of the ARMORGUARD Steel Rail Gate does not place any obligation on the road authority, or its contractors, to purchase or use the product.
	The Austroads Safety Barrier Assessment Panel may periodically re-assess the ARMORGUARD Steel Rail Gate. The road authority may withdraw or modify at any time, the acceptance status or conditions of use of the product without notice. Users should refer to the road authority web site to ensure they have the latest version of the conditions related to this product.



Safety Barrier terminology.vsd

For more information, refer to
Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers