


Safety Barrier Technical Conditions for Use

BG800 Steel Gate

	Issue Date: 4 March 2019	Supplier: Ingal Civil Products
	<p>These conditions take precedence over any instructions in the Product Manual.</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>	

Status	Accepted – may be used on the classified road network. These acceptance conditions take precedence over any instructions in the Product Manual.
Variants accepted	BG800 Steel Gate (6 and 12 metre) with an attached T- Top structure, hinge assembly and hinge pins, terminal section with anchor assembly and wheel sets. <u>Variants</u> Nil
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.
Product manual reviewed	Rev. B – 10/18
Product manual	https://webassets.valmont.com/valmontstaging/docs/librariesprovider35/brochure/1-3-bg800-gate-manual-nchrp-350-australia-amp-new-zealand---rev-b-190225.pdf?sfvrsn=41dd0e39_2

Speed limit (km/h)	100 km/h Permanent barriers accepted for 100km/h may be used in 110 km/h speed zones.
Tested containment	NCHRP 350 Test level 3 (2,000 kg at 100 km/h and 25°).
Tested dynamic deflection	100 km/h 1.6 metres.
	Note that deflections are measured in crash tests performed under controlled conditions. Designers should be aware that the deflection figures published as a test result may not be the deflection values achieved in the field for all impacts by errant vehicles dependent upon foundation conditions and roadside geometry.
Point of need	Not applicable.
Development length	Not applicable.
Minimum length of barrier between terminals	Not applicable.
System width (m)	0.54 metres

System conditions	<p>1. Maximum gate opening is 30 metres.</p> <p>2. Only to be installed on straight horizontal alignments.</p> <p>3. Installation on top of a kerb is not permitted.</p>	
Terminals and connections	W-Beam guardrail	Not Permitted
	Thrie-Beam guardrail	Not Permitted
	Type F Concrete Safety Barrier	Permitted - BG800 Gate to Concrete Barrier. The transition includes the Full Height End Terminal.
	Proprietary product	<p>1. BG800 Steel Safety Barrier – Temporary and Permanent.</p> <p>2. BG800 MDS Steel Safety Barrier – Temporary.</p>
	Other	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)	Not specified.	
Flare	Not Permitted.	
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 BG800 Steel Gate must be installed and maintained in accordance with the Product Manual and Road Agency specifications. The Road Agency specifications and standards shall have precedence.	
Minimum distance to excavation	Not applicable.	
Slope limit	Not specified.	
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	Not 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 the operation of the product.	
Attachments and screens	<p>In accordance with the requirements of Australian/New Zealand Standard AS/NZS 3845, road furniture such as headlight screens, signs, lighting posts and fences for pedestrians, 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 Agency 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 Agency specifications. Traceability details that must be permanently fixed to the terminal are:</p> <ul style="list-style-type: none"> • Name of the product. • Manufacturer or distributor name. • Date of manufacture. • Model or version details of the product, if applicable. • Batch number, if applicable. • Serial number, if applicable. <p>Traceability details must be easily visible but unobtrusive and not be in a form that becomes prominent advertising. No advertising shall be displayed on the installation.</p> <p>Traceability must be in a form that will not be erased with use.</p>
Notes	<p>Conditions are based on drawings in the Product Manual supplied by the Proponent/s. This acceptance will cease if there is any change in the product design or specifications.</p> <p>Only the Product Manual authorised by the Proponent shall be used in any marketing of the product.</p> <p>Acceptance of the BG800 Steel Gate does not place any obligation on the Road Agency, or its contractors, to purchase or use the product.</p> <p>The Austroads Safety Barrier Assessment Panel may periodically re- assess the BG800 Steel Gate.</p> <p>The Road Agency 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 Agency web site to ensure they have the latest version of the conditions related to this product.</p>