


Safety Barrier Technical Conditions for Use

EZY-GUARD LDS Safety Barrier - Permanent

	Issue Date: 15 December 2022	Proponent: 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
Product accepted	EZY-GUARD LDS Safety Barrier <u>Variants</u> Installation on 1:1 batter hinge point (TL3 only) – requires site specific design. Acceptance of design at the discretion of road controlling authority. Must be accompanied by site specific ground investigation. Variants that are NOT listed above are NOT recommended for acceptance.
Accepted speed	100 km/h
Product manual reviewed	Release 11/22 – Ezy-Guard LDS Safety Barrier Release 11/22 – Ingal MPR
Product manual	https://www.ingalcivil.com.au/products/road-safety-barriers/guardrail/ezy-guard-lds-mash-tl4

Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Dynamic Deflection (m)	Working Width (m)	Notes
	Leading (m)	Trailing (m)					
MASH TL3	Interface between the barrier and terminal		63	2.0	1.10	1.20	
MASH TL4	8	36	63	2.0	1.10	2.50	

Approved Connections

<i>An accepted end treatment must be provided at both ends of all barrier installations</i>	
Public Domain Products	
W-Beam Guardrail	Permitted
Thrie-Beam Guardrail	Permitted
Concrete	Not Permitted
Proprietary Products	
ET-SS Terminal	<ul style="list-style-type: none"> Refer to ET-SS Terminal Technical Conditions for Use.
Ezy-Guard HC Safety Barrier	<ul style="list-style-type: none"> Refer to Ezy-Guard HC Technical Conditions for Use.
Ingal MPR Motorcyclist Protection	<ul style="list-style-type: none"> Motorcyclist Protection Device Tested to EN1317:8 – Class C60 with Severity Level 1 Not permitted on kerbed roads

Design Guidance

Minimum installation length	44 metres between crash cushions/terminals (tested article)
System width (m)	0.245
Minimum distance to excavation (m)	1.10 – measured from the face of the barrier
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	2.0	Ezy-Guard LDS post	Minimum AASHTO standard soil strength
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					
Unsealed compacted formation					

Note: Installation in pavement conditions not permitted above have not been justified to the Panel's satisfaction.