


Safety Barrier Technical Conditions for Use

ET-SS Terminal - Permanent

	Issue Date: 1 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	ET-SS Terminal <u>Variants</u> Alternative anchor post foundation - should be limited to constrained locations where a driven post cannot be installed. Must be accompanied by site specific ground investigation. Baseplated Post – TL2 only Variants that are NOT listed above are NOT recommended for acceptance.
Accepted Speed	70 km/h (TL2) 100 km/h (TL3)
Product Manual reviewed	Release 08/21
Product Manual	https://www.ingalcivil.com.au/products/road-safety-barriers/MASH-end-terminals/et-ss-mash-end-terminal

Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Notes
	Leading (m)	Trailing (m)			
MASH TL2	Post #2	Post #2	7.9	1.905	Gating terminal - clear run out area required
MASH TL3	Post #3	Post #3	15.48	1.905	Gating terminal - clear run out area required

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	Not permitted
Concrete	Not permitted
Proprietary Products	
	Refer to safety barrier Technical Conditions for Use for accepted proprietary connections.

Design Guidance

Minimum installation length (m)	7.92 (TL2) 15.48 (TL 3)
System width (m)	0.45
Slope limit	10%
Systems 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	Not permitted
Pedestrian area use	Permitted
Cycleway use	Permitted
Frequent impact likely	Permitted
Remote location	Permitted
Median use	Permitted – where rear impact is not possible

Foundation Pavement Conditions					
Pavement Type	Use	Max Accepted Impact Speed (km/h)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Permitted	100	1.905	Driven Post*	Minimum AASHTO standard soil strength
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					
Unsealed compacted formation					

* Baseplated post on reinforced concrete pad can be used in all pavement types refer drawings.

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