


Safety Barrier Technical Conditions for Use

ET-SS Terminal - Permanent

	Issue Date: 4 March 2021	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	Recommended for Acceptance
Product accepted	<p>ET-SS Terminal</p> <p><u>Variants</u></p> <p>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.</p> <p>Variants that are NOT listed above are NOT recommended for acceptance.</p>
Accepted Speed	<p>70 km/h (TL2)</p> <p>100 km/h (TL3)</p>
Product Manual reviewed	Release 09/20
Product Manual	http://az276019.vo.msecnd.net/valmontstaging/docs/librariesprovider35/manuals/46527-et-ss-end-terminal-manual-0719.pdf?sfvrsn=d6a20139_2

Design Requirements

Containment Level	Point of Redirection (m)		Tested Article Length (m)	Anchor/Post Spacing (m)	Notes
	Leading	Trailing			
MASH TL2	Post #3	Post #3	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

Crash Cushions or Terminals must be fitted to both ends of a barrier	
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

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 installation length	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	Use	Accepted Speed (max)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Not permitted				
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement	Permitted	100km/h	1.905	Refer to drawings	Minimum AASHTO standard soil strength
Flush seal over granular pavement					
Unsealed compacted formation					

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