Safety Barrier Technical Conditions for Use

RAMSHIELD High Containment Steel Safety Barrier - Permanent

	Issue Date:	8 December 2022	Proponent: Safe Direction	
	These conditions take precedence over any instructions in the Product Manual.			
	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.			
	The Austroads Safety Assessment Panel may at any time, withdraw or modify this Technical Conditions for Use without notice.			
	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.			
		this product does not pla purchase or use the prod	ce any obligation on the Northern Territory Government or its duct.	

Status	Accepted – may be used on the classified road network		
	RAMSHIELD High Containment Steel Safety Barrier		
Product accepted	<u>Variants</u> Ramshield Edge – requires site specific design. Acceptance of design at discretion of road controlling authority.		
	Variants that are NOT listed above are NOT recommended for acceptance.		
Accepted Speed	100 km/h		
Product Manual reviewed	PM 030/02– Ramshield HC Safety Barrier PM 025–05 – BikerShield MPR		
Product Manual	https://www.safedirection.com.au/products/guardrail-products/road-barriers/guardrail- barriers/ramshield-high-containment/		

Design Requirements

Containment	Point of Redirection		Tested Article	Anchor/Post Spacing	,	Working Width (m)	Notes
Level	Leading (m)	Trailing (m)	Length Spa				
MASH TL3	Interface between barrier and the end treatment		82	2.0	1.00	1.10	
MASH TL4	9.5	40	82	2.0	1.10	2.20	

Approved Connections

An accepted end treatment must be provided at both ends of all barrier installations			
Public Domain Products			
W-Beam Guardrail	Permitted		
Thrie-Beam Guardrail	Permitted		
Concrete	Permitted using SBTA 21-005 Transition from strong post w-beam to rigid concrete barrier Permitted using Ramshield Transition		



Proprietary Products			
MSKT Steel Rail Terminal - Permanent	Refer to MSKT Steel Rail Terminal Technical Conditions for Use.		
Ramshield Safety Barrier	Refer to Ramshield Safety Barrier Technical Conditions for Use.		
BikerShield Motorcyclist Protection Device	 Motorcyclist Protection Device Tested to EN-1317.8 – Class C60 with Severity Level 2 Not permitted on kerbed roads 		

Design Guidance

Minimum installation length	82 metres between crash cushions/terminals (tested article)		
System width (m)	0.23		
Minimum distance to excavation	1.00 TL3 – measured from the face of the barrier1.10 TL4 – measured from the face of the barrier		
Slope limit	10%		
Systems conditions	 Only to be installed with system designed driving head. Installation on top of a kerb is not recommended, however if installed on top of a kerb all components are to 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					
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement	Permitted	100	2.0	Driven Post	Minimum AASHTO standard soil strength
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.