

## **Safety Barrier Technical Conditions for Use**

## **RAMSHIELD High Containment Steel Safety Barrier - Permanent**



Issue Date: 8 December 2022 Proponent: Safe Direction

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 Barrier Assessment Panel may at any time, withdraw or modify this document without notice.

These Technical Conditions for Use do not imply that this product may be used on roads under the care and control of individual Road Agencies. Users should refer to individual Road Agency websites to determine whether this product is accepted for use within that jurisdiction, and if the Road Agency has adopted any additional or specific requirements.

These conditions do not take precedence over Road Agency specifications and standards.

These conditions do take precedence over instructions in the Product Manual.

Status	Recommended for Acceptance	
Product accepted	RAMSHIELD High Containment Steel Safety Barrier	
	Variants 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 impact speed	100 km/h	
Product manual reviewed	PM 030/02 – Ramshield HC Safety Barrier PM 025—05 – BikerShield MPR	

**Design Requirements** 

Point of Redirection		Tested Article	Anchor/Post	Dynamic	Working		
Containment Level	Leading (m)	Trailing (m)	Length (m)	Spacing (m)	Deflection (m)	Width (m)	Notes
MASH TL3	Interface between barrier and 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	uardrail 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** 

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Minimum installation length	82 metres between crash cushions/terminals (tested article)			
System width (m)	0.23			
Minimum distance to excavation (m)	1.00 TL3 – measured from the face of the barrier 1.10 TL4 – measured from the face of the barrier			
Side slope limit	10%			
System conditions	<ol> <li>Only to be installed with system designed driving head.</li> <li>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.</li> </ol>			
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		100	2.0	Driven Post	Minimum AASHTO standard soil strength	
Asphaltic concrete over granular pavement	Permitted					
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.