

Safety Barrier Technical Conditions for Use

Shield I Safety Barrier System - Temporary

	Issue Date: 7 March 2024	Proponent: National Plastics Pty Ltd
	Status: Recommended for acceptance	Accepted Impact Speed: 50 km/h
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 take precedence over instructions in the Product Manual, refer Austroads Technical Advice SBTA 22-001. Product manual current at time of TCU: Version 1.1 2018		

Design Requirements

Containment Level	MASH TL1
Accepted Impact Speed	50 km/h
Point of Redirection – Leading (m)	26
Point of Redirection – Trailing (m)	26
Tested Article Length (m)	52
Anchor/Post Spacing (m)	Freestanding
Dynamic Deflection (m)	2.20
Working Width (m)	2.80
System Width (m)	0.60
Unit Length (m)	2
Minimum Support Width (m)	Requires site specific analysis. Refer Austroads Technical Advice SBTA 22-001.
Minimum Installation Length (m) between crash cushions/terminals - tested article	44
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.

Approved Variants

Variant	Functional Purpose	Conditions
Nil		
Variants that are not listed above are NOT recommended for acceptance. Alterations to or combinations of the variants listed above are not recommended unless noted.		

Approved Connections

An accepted end treatment must be provided at both ends of all barrier installations	
End Treatments	
Shield I Terminal	- This is a gating terminal. Gating terminals shall have a run-out area behind the terminal that is traversable and free of hazards. The run-out area is to be 18.5m x 6m from the point of redirection. - Terminal units are NOT filled with water.
Connections that are not listed above are NOT recommended for acceptance.	

Foundation Pavement Conditions

Pavement Type	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Foundation pavement conditions must be smooth and free of snag points, kerbs or obstructions that may interfere with the operation of the product.	<u>Freestanding</u>	
Deep lift asphaltic concrete			
Asphaltic concrete over granular			
Flush seal over granular			
Unsealed compacted formation			
Installation in pavement conditions not permitted above have not been justified to the Panel's satisfaction.			