Safety Barrier Technical Conditions for Use

SMART Steel Crash Cushion

	Issue Date:	5 December 2020	Supplier:	LB Australia	
	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.				
	Acceptance of this product does not place any obligation on the Northern Territory Government or its contractors, to purchase or use the product.				

Status	Recommended for Acceptance		
Product accepted	SMART Crash Cushion <u>Variants</u> SCI100GM SCI70GM Variable width transition piece up to 914mm – unidirectional only. Not permitted as a departure terminal. Variants that are NOT listed above are NOT recommended for acceptance.		
Accepted Speed	70 km/h (TL2) – SCI70GM 100 km/h (TL3) – SCI100GM		
Product Manual reviewed	Dated 2015		
Product Manual	http://www.smartcushion.com.au/sites/smartcushion.com.au/files/documents/SCI_Smart_Cush esign_and_Installation_Manual_2015.pdf		

Design Requirements

Containment	Point of Redirection (m)		Tested Article Length	Anchor/Post Spacing	Nata
Level	Leading	Trailing	(m)	(m)	Notes
MASH TL2	Fully redirective		4.2	Refer drawings	
MASH TL3	Fully redirective		6.6	Refer drawings	



Approved Connections

Crash Cushions or Terminals must be fitted to both ends of a barrier			
Public Domain Products			
W-Beam Guardrail	Not permitted		
Thrie-Beam Guardrail	Permitted – reverse impacts into the transition section can produce a greater occupant severity value than preferred. Where reverse impacts are possible (e.g. bidirectional traffic) a risk		
Concrete	assessment must be completed and steps to mitigate the likelihood of reverse impact should be implemented.		
Proprietary Products			
	Refer to Safety Barrier Technical Conditions for Use for approval connections		

Design Guidance

This product must be ir	nstalled and maintained in accordance with the Product Manual and Road Agency specifications. Road Agency specifications and standards shall have precedence			
System length (m)	4.2 SCI70GM (TL2) 6.6 SCI100GM (TL3)			
System width (m)	0.61 – standard Up to 0.914 – variable width			
Slope limit	10%			
Systems conditions	Installation on top of a kerb is not recommended, however if installed on top of a kerb all system component must 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	Use	Accepted Speed (max)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Permitted	100km/h R	Refer to drawings	M18 x 178mm threaded rod with epoxy	Permanent installations on
Deep lift asphaltic concrete					reinforced concrete pavement or pad is permitted in the manufacturer's drawings Temporary installations permitted
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					pinned to asphalt in accordance with manufacturer's drawings
Unsealed compacted formation	Not permitted				

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