


Safety Barrier Technical Conditions for Use

Tau-XR Crash Cushion – Permanent & Temporary

	Issue Date: 4 September 2024	Proponent: Lindsay Transportation Services
	Status: Recommended for acceptance	Accepted impact speed: 100 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: P/N 1828819 Rev B (ECN 62347)

Design Requirements

Containment Level	TL3
Accepted Impact Speed	100 km/h
Point of Redirection – Leading (m)	Entirely redirective
Point of Redirection – Trailing (m)	
System Length (m)	7.18
Anchor/Post Spacing (m)	Refer drawings
System Width (m)	0.91
System Conditions	<ul style="list-style-type: none"> 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		
<i>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.</i>		

Approved Connections

Safety Barriers	
Proprietary products	<ul style="list-style-type: none"> Refer to Safety Barrier Technical Conditions for Use for accepted connections.
Transitions	
Public Domain W-Beam Guardrail	<ul style="list-style-type: none"> Reverse impacts into the transition section can product a greater occupant severity value than preferred. Where reverse impacts are possible (e.g., bidirectional traffic), a risk assessment must be completed and steps to mitigate the likelihood of reverse impact should be implemented.
Public Domain Thrie-Beam Guardrail	
Public Domain Permanent Concrete	<ul style="list-style-type: none"> Permitted with full length transition panel. Reverse impacts into the transition section can product a greater occupant severity value than preferred. Where reverse impacts are possible (e.g., bidirectional traffic), a risk assessment must be completed and steps to mitigate the likelihood of reverse impact should be implemented.
<i>Connections that are not listed above are NOT recommended for acceptance.</i>	

Foundation Pavement Conditions

Permanent Installations Only			
Pavement Type	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Refer drawings	19mm x 146mm ASTM A307 threaded rod with epoxy	Concrete pavement or pad in accordance with manufacturer's drawings
Deep lift asphaltic concrete	Refer drawings	19mm x 146mm ASTM A307 threaded rod with epoxy	Concrete pavement or pad in accordance with manufacturer's drawings
Asphaltic concrete over granular	Refer drawings	19mm x 146mm ASTM A307 threaded rod with epoxy	Concrete pavement or pad in accordance with manufacturer's drawings
Flush seal over granular	Not permitted		
Unsealed compacted formation	Not permitted		
<i>Installation in pavement conditions not permitted above have not been justified to the Panel's satisfaction.</i>			

Temporary Installations Only			
Pavement Type	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Refer drawings	19mm x 146mm ASTM A307 threaded rod with epoxy	Concrete pavement or pad in accordance with manufacturer's drawings
Deep lift asphaltic concrete	Refer drawings	19mm x 410mm ASTM A307 threaded rod with epoxy	Pinned to asphalt in accordance with the manufacturer's drawings
Asphaltic concrete over granular	Refer drawings	19mm x 410mm ASTM A307 threaded rod with epoxy	Pinned to asphalt in accordance with the manufacturer's drawings
Flush seal over granular	Not permitted		
Unsealed compacted formation	Not permitted		
<i>Installation in pavement conditions not permitted above have not been justified to the Panel's satisfaction.</i>			