

JJ Hooks 6 Metre Safety Barrier – Temporary

Product summary

Status	Accepted
Category	Temporary – Concrete Longitudinal Barriers
Test Level	MASH Test Level 3: 100km/h
Supplier	Australian Road Barriers Pty Ltd
Description	Concrete Barrier - Comprising of 6m Barrier Units



Introduction and purpose

This detail sheet supplements *VicRoads' Road Design Note 06-04 - Accepted Safety Barrier Products*. Please refer to RDN 06-04 for the current VicRoads acceptance status, information on the product assessment process and general acceptance conditions.

The technical details within this document have been extracted from information submitted to VicRoads by the Supplier and the recommended 'Conditions for Use' from the Austroads Safety Barrier Assessment Panel (ASBAP).

VicRoads requirements take precedence over the product manual and Austroads conditions. Where a departure from these requirements is required, users should understand the risks and document their engineering decisions.

For more detailed product information, refer to the individual product manual or contact the System Supplier.

Technical information

The JJ Hooks 6 Metre Safety Barrier – Temporary is a concrete barrier and should be designed, installed and maintained in accordance with the following VicRoads conditions for use.

These conditions for use have been based on an Austroads assessment of technical performance against AS/NZS 3845 and contain VicRoads specific requirements when necessary.

Typical installation arrangement shown above.

Summary Conditions for Use

Accepted configuration	JJ Hooks 6 Metre Safety Barrier – Temporary
Variants	Nil Variants that are NOT listed above are NOT recommended for acceptance.
Deflection	1.6 metres
Product manual reviewed	Released April 2020
ASBAP issue	17 April 2020

Refer *VicRoads conditions for use (below)*.

VicRoads Conditions for Use

Tested design requirements

Containment level	Point of Redirection		Tested Article Length (m)	Anchor/Pin Spacing (m)	Dynamic deflection (m)	Working width (m)	Notes
	Leading (m)	Trailing (m)					
MASH TL3	33	33	66	Freestanding	1.6	2.2	

Approved Terminals and Connections

<i>Crash Cushions or Terminals must be fitted to both ends of a barrier</i>	
Public Domain Products	
W-Beam Guardrail	Not permitted
Thrie-Beam Guardrail	Not permitted
Concrete	Not permitted
Proprietary Products	
SMART Crash Cushion	<ul style="list-style-type: none"> Refer to SMART Crash Cushion Technical Conditions for Use. The SMART Crash Cushion to JJ Hooks transition must be used to connect the crash cushion to the barrier. Not Permitted as a terminal on a flare. Impact severity for reverse direction impact is high, consideration of the likelihood should be undertaken to determine suitable crash cushion location. Leading and trailing points of redirection are considered to be 0. The barrier unit adjacent to the crash cushion must be anchored to the pavement as required by the Product Manual.
ABSORB 350 Plastic Terminal	<ul style="list-style-type: none"> Refer to ABSORB 350 Terminal Technical Conditions for Use. The installation is restricted to speed limits of 70 km/h or less The ABSORB 350 to JJ Hooks transition must be used to connect the terminal to the barrier. Permitted as a terminal on a flare. This is a gating terminal.
QUADGUARD CZ Steel Rail Crash Cushion	<ul style="list-style-type: none"> Refer to QUADGUARD CZ Crash Cushion Technical Conditions for Use. The QUADGUARD to JJ HOOKS transition must be used to connect the crash cushion to the barrier. Not Permitted as a terminal on a flare. May only be installed where reverse impacts are highly improbable and a risk assessment has been completed and steps undertaken to mitigate any risks identified. Leading and trailing points of redirection are considered to be 0m. The barrier unit adjacent to the crash cushion must be anchored to the pavement as required by the Product Manual.

Design Guidance

This product must be installed and maintained in accordance with the Product Manual and Road Agency specifications. Road Agency specifications and standards shall have precedence.	
Minimum installation length	66 metres between crash cushions/terminals (tested article)
System width (m)	0.6
Installation	This product must be installed and maintained in accordance with the Product Manual and Road Agency specifications. Road Agency specifications and standards shall have precedence.
Minimum distance to excavation	Recorded dynamic deflection
Slope limit	Side slope limit: 15 Horizontal to 1 Vertical (6%)
Systems conditions	1. Installation without an end treatment listed above is NOT permitted. 2. Installation on top of a kerb is not recommended. 3. Flaring across the clear zone without a terminal listed above is NOT permitted.
Gore area use	Permitted
Pedestrian area use	Permitted – consider potential for snagging and deflection.
Cycleway use	Permitted – consider potential for snagging and deflection.
Frequent impact likely	Permitted
Remote location	Permitted
Median use	Permitted

Foundation pavement conditions

Foundation Pavement Conditions					
Pavement	Use	Accepted Speed (max)	Post/pin spacing (m)	Post/ Pin Type	Pavement Construction
Concrete	Permitted	100km/h			<p style="text-align: center;"><u>Freestanding</u></p> <p>Foundation pavement conditions must be smooth and free of snag points, kerbs or obstruction that may interfere with the operation of the product</p>
Deep lift asphaltic concrete					
Asphaltic concrete over granular pavement					
Flush seal over granular pavement					
Unsealed compacted formation					
Natural surface					

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

Other considerations and comments

Damaged Components

Damaged components must be replaced. Repaired components must not be used.

References

- Austroads Guide to Road Design – Part 6.
- VicRoads Supplement to Austroads Guide to Road Design – Part 6.
- VicRoads Road Design Note 06-04 Accepted Safety Barrier Products.
- Product Installation Manual and Product Operational Manual refer licensed product supplier website.

Detail Sheet – Update Summary

Issue	Approved	Amendment
May 2020	M-SSD	First edition