


# Technical Conditions for Use

## Raptor Single Point Protector

	<b>Issue Date:</b> 1 December 2021	<b>Proponent:</b> Valmont Highway International Pty Ltd
	<p><b>These conditions take precedence over any instructions in the Product Manual.</b> 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.</p> <p>The Austroads Safety Assessment Panel may at any time, withdraw or modify this Technical Conditions for Use without notice.</p> <p>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.</p> <p>Acceptance of this product does not place any obligation on the Northern Territory Government or its contractors, to purchase or use the product.</p>	

<b>Status</b>	<b>Recommended for Acceptance</b>
Product accepted	Raptor Single Point Protector  <u>Variants</u> R300 R600  Variants that are NOT listed above are NOT recommended for acceptance.
Accepted impact speed	50 km/h
Product manual reviewed	Release 07/21
Product Manual	<a href="https://www.ingalcivil.com.au/products/road-safety-barriers/raptor-pole-protector">https://www.ingalcivil.com.au/products/road-safety-barriers/raptor-pole-protector</a>

### Design Requirements

Containment Level	Point of Redirection		Tested Article Length (m)	Anchor/Post Spacing (m)	Dynamic Deflection (m)	Working Width (m)	Notes
	Leading (m)	Trailing (m)					
MASH TL1	Not applicable		2.76	Freestanding	Not applicable	Not applicable	Single point protector for head-on impacts only

### Approved Connections

<b><i>An accepted end treatment must be provided at both ends of all barrier installations</i></b>	
<b>Public Domain Products</b>	
W-Beam Guardrail	Not applicable
Thrie-Beam Guardrail	Not applicable
Concrete	Not applicable
<b>Proprietary Products</b>	
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Design Guidance

System width (m)	1.15
Side slope limit	10%
System conditions	<ol style="list-style-type: none"> <li>1. Only to be used with the site specific approval of the local Road Authority.</li> <li>2. Ensure adequate sightlines at driver's eye height before installation.</li> <li>3. The device may rotate during impacts. The area within a radius of 1.5 metres must be level without any hindrances to this free rotation.</li> <li>4. Yellow or black units available. Colour to be determined by the local Road Authority.</li> <li>5. 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.</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	Permitted	50			<p style="text-align: center;"><u>Freestanding</u></p> <p>Foundation pavement conditions must be smooth and free of snag points, kerbs or obstructions 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					

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