


# Safety Barrier System Acceptance Conditions

## ArmorZone MASH Longitudinal Barrier - Temporary

	<b>Issue Date:</b> 16 September 2019	<b>Distributor:</b> Ingal Civil Products
	<p><b>These conditions take precedence over any instructions in the Product Manual.</b></p> <p>These acceptance conditions should be read in conjunction with the Product Manual and Roads and Maritime Specification R132 – Safety Barrier Systems and Austroads Guide to Road Design Part 6: Roadside Design, Safety and Barriers.</p> <p>Roads and Maritime Services may withdraw or modify this acceptance at any time without notice. Users should refer to the Roads and Maritime Services website to ensure they have the latest version of the conditions related to this product.</p> <p>Acceptance of this product does not place any obligation on Roads and Maritime Services, or its contractors, to purchase or use the product.</p>	

Status	Accepted - may be used on the classified road network
Product accepted	<p style="text-align: center;"><b>Accepted for temporary installations only</b></p> <p>ArmorZone MASH Longitudinal Safety Barrier</p> <p><u>Variants</u> Nil</p> <p>Variants that are NOT listed above are NOT recommended for acceptance.</p>
Accepted speed	70 km/h

### Tested Outcomes

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	24	26	50	N/A	2.16	2.61	Units must not be interchanged with Armorzone NCHRP 350 units
MASH TL2	24	26	50	N/A	4.10	4.60	Units must not be interchanged with ArmorZone NCHRP 350 units

### Approved Connections

<b>Crash Cushions or Terminals must be fitted to both ends of a barrier</b>	
<b>Public Domain Products</b>	
W-Beam Guardrail	Not Permitted
Thrie-Beam Guardrail	Not Permitted
Concrete	Not Permitted
<b>Proprietary Products</b>	
Armorzone MASH End Treatment Unit	<ul style="list-style-type: none"> <li>This is a gating terminal.</li> <li>Terminal units are not filled with water.</li> </ul>

### Design Guidance

<b>This product must be installed and maintained in accordance with the Product Manual and Roads and Maritime specifications</b>	
Minimum installation length	46 metres between crash cushions/terminals (tested article)
System width (m)	0.45 metres
Minimum distance to excavation	4.6 metres measured from the traffic face of the barrier.
Slope limit	Side slope limit: 10 Horizontal to 1 Vertical (10%).

Systems conditions	<ol style="list-style-type: none"> <li>1. Installation on top of a kerb is not recommended.</li> <li>2. A 30 metre x 6 metre clear run-out area is required, measured from the nose of the end treatment.</li> <li>3. Flaring across the clear zone without a terminal listed above is NOT permitted.</li> <li>4. ArmorZone MASH TL2 barriers must NOT be installed with ArmorZone NCHRP 350 barriers, due to their different crash rating and performance.</li> </ol>
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					
Pavement	Use	Accepted Speed (max)	Post/Pin Spacing (m)	Post/Pin Type	Pavement Construction
Concrete	Permitted	70 km/h	N/A	N/A	Not applicable
Deep lift asphaltic concrete	Permitted	70 km/h	N/A	N/A	Not applicable
Asphaltic concrete over granular pavement	Permitted	70 km/h	N/A	N/A	Not applicable
Flush seal over granular pavement	Permitted	70 km/h	N/A	N/A	Not applicable
Unsealed compacted formation	Permitted	70 km/h	N/A	N/A	Graded level surface

**Note: Installation in pavement conditions not listed above have not been justified to the Roads and Maritime's satisfaction.**