


# Crashworthiness Assessment

## Optimast Sign Support

	<b>Issue Date:</b> 20 December 2021	<b>Proponent:</b> Delnorth Group
	<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>	

Status	<b>Recommended for Acceptance</b>
Product accepted	Optimast Sign Support  <u>Variants</u> Family of Signage Poles including 127mm, 168mm, 219mm and 244mm Diameters  Variants that are NOT listed above are NOT recommended for acceptance.
Accepted impact speed	100 km/h
Product manual reviewed	Version 2.0 06 October 2021
Product Manual	<a href="https://www.signfix.com.au/mash-approved/mash-approved/">https://www.signfix.com.au/mash-approved/mash-approved/</a>

### Design Requirements

Containment Level	Tested Article Diameter (mm)	Tested Article Centre of Mass (m)	Test Configuration	Tested Foundation	Notes
MASH TL3	127	3.1	Array	750mm W x 1600mm L x 600mm D 28 MPa concrete	
MASH TL3	244	4.3	Array	3200mm W x 3300mm L x 600mm D 28 MPa concrete	
MASH TL3	127	1.5	Single	750mm W x 750mm L x 600mm D 28 MPa concrete	

### Design Guidance

Maximum support diameter (mm)	244
Shortest post length above foundation (m)	2.4 – Optimast 127mm diameter 4.6 – Optimast 168mm, 219mm and 244mm diameters
Minimum concrete foundation (per support)	Engineered per site
Single post installation	Permitted