Safety Barrier Technical Conditions for Use

Lo-Ro Water Cable Barrier - Temporary

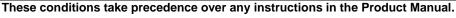
Issue Date:



2 June 2020

Supplier:

Jaybro Goup Pty Ltd



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 Assessment Panel may at any time, withdraw or modify this Technical Conditions for Use without notice.

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.

Acceptance of this product does not place any obligation on the Northern Territory Government or its contractors, to purchase or use the product.

| Status | Recommended for Acceptance | | | | |
|-------------------------|---|--|--|--|--|
| | Lo-Ro Water Cable Barrier | | | | |
| Product accepted | <u>Variants</u> | | | | |
| | Variants that are NOT listed above are NOT recommended for acceptance. | | | | |
| Accepted Speed | 50km/h (TL1), 70km/h (TL2) | | | | |
| Product Manual reviewed | Revision A3 (Dated 12/30/2019) | | | | |
| Product Manual | https://www.jaybro.com.au/fortress-fencing-barriers/crowd-control-water-filled-barriers/water-filled-traffic-barriers/lo-ro-water-filled-cable-barrier-mash-tl-2-white.html | | | | |

Design Requirements

| Containment | Point of | Point of Redirection (m) | | Anchor/Post | Dynamic | Working | Notes |
|-------------|----------|--------------------------|---------------|----------------|-------------------|--------------|-------|
| Level | Leading | Trailing | Length (m) | Spacing (m) | Deflection (m) | Width (m) | Notes |
| MASH TL1 | 24 | 24 | 48 | n/a | 1.80 | 2.30 | |
| MASH TL2 | 24 | 24 | 48 | n/a | 3.60 | 4.10 | |

Approved Connections

| Crash Cushions or Terminals must be fitted to both ends of a barrier | | | |
|--|---------------|--|--|
| Public Domain Products | | | |
| W-Beam Guardrail | Not Permitted | | |
| Thrie-Beam Guardrail | Not Permitted | | |
| Concrete | Not Permitted | | |
| Proprietary Products | | | |



| SLED Lo-Ro Terminal | • | This is a gating terminal. |
|---------------------|---|---------------------------------------|
| | • | Terminal units are filled with water. |

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 | 41 metres between crash cushions/terminals (tested article) | | | |
| System width (m) | 0.57 metres | | | |
| Minimum distance to excavation | 4.1 metres measured from the traffic face of the barrier. | | | |
| Slope limit | Side slope limit: 10 Horizontal to 1 Vertical (10%). | | | |
| Systems conditions | Installation on top of a kerb is not recommended. A 24 metre x 6 metre clear run-out area is required, measured from the nose of the end treatment. 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 | | | | | | |
|---|-----------|----------------------------|----------------------------|---------------|-----------------------|--|
| 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 Panel's satisfaction.