EZY-GUARD HIGH CONTAINMENT Steel Rail Safety Barrier - Permanent

Issue Date: 1 January 2020

These conditions take precedence over any instructions in the Product Manual.

DPTI may at any time, withdraw or modify this Technical Conditions for Use without notice. This Technical Conditions for Use does not imply that this product may be used on roads under the care and control of individual Road Agencies. Users should refer to DPTI websites to determine whether this product is accepted for use within DPTIs jurisdiction.

Status

Recommended for Acceptance

Product accepted

EZY-GUARD HIGH CONTAINMENT Steel Rail Safety Barrier - Permanent

Variants

- Standard installation
- Back to back installation
- Base plate installation – may only be installed on concrete foundation pavements
- Single post omission

Variants that are NOT listed above are NOT recommended for acceptance.

Accepted speed

100 km/h

Product manual reviewed

Release 03/17

Design Requirements

<table>
<thead>
<tr>
<th>Containment Level</th>
<th>Point of Redirection</th>
<th>Tested Article Length (m)</th>
<th>Anchor/Post Spacing (m)</th>
<th>Dynamic Deflection (m)</th>
<th>Working Width (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASH TL3</td>
<td>Interface between the barrier and the end treatment</td>
<td>55.8</td>
<td>2.0</td>
<td>1.16</td>
<td>1.16</td>
</tr>
<tr>
<td>MASH TL4</td>
<td></td>
<td>43.8</td>
<td>43.8</td>
<td>94</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Approved Connections

Crash Cushions or Terminals must be fitted to both ends of a barrier

Public Domain Products

- W-Beam Guardrail: Permitted
- Thrie-Beam Guardrail: Not Permitted
- Concrete: Not Permitted

Proprietary Products

- ET-SS Steel Rail Terminal: Refer to ET-SS Steel Rail Terminal Technical Conditions for Use.
- QUADGUARD M10 Crash Cushion: Refer QUADGUARD M10 Crash Cushion Technical Conditions for Use.
  - The QUAD-BEAM transition to end terminal must be used to connect the terminal to the barrier.
  - 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.
## Design Guidance

This product must be installed and maintained in accordance with the Product Manual and DPTI specifications. DPTI specifications and standards shall have precedence.

<table>
<thead>
<tr>
<th>Minimum installation length</th>
<th>82 metres between crash cushions/terminals (tested article)</th>
</tr>
</thead>
<tbody>
<tr>
<td>System width (m)</td>
<td>0.24 metres</td>
</tr>
<tr>
<td>Minimum distance to excavation</td>
<td>Recorded dynamic deflection</td>
</tr>
<tr>
<td>Slope limit</td>
<td>Side slope limit: 10 Horizontal to 1 Vertical (10%)</td>
</tr>
</tbody>
</table>

**Systems conditions**

1. Installation without an end treatment listed above is NOT permitted.
2. 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.
3. Flaring across the clear zone without a terminal listed above is NOT permitted.
4. Anchor spacing greater than 2.0 metres is NOT permitted.

**Foundation Pavement Conditions**

<table>
<thead>
<tr>
<th>Pavement</th>
<th>Use</th>
<th>Accept Speed (max)</th>
<th>Post/Pin Spacing (m)</th>
<th>Post/Pin Type</th>
<th>Pavement Construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Permitted</td>
<td>100 km/h</td>
<td>2.0</td>
<td>Ezy-Guard High Containment Post</td>
<td>Minimum AASHTO Standard Soil strength</td>
</tr>
<tr>
<td>Deep lift asphaltic concrete</td>
<td>Permitted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asphaltic concrete over granular pavement</td>
<td>Permitted</td>
<td>100 km/h</td>
<td>2.0</td>
<td>Ezy-Guard High Containment Post</td>
<td>Minimum AASHTO Standard Soil strength</td>
</tr>
<tr>
<td>Flush seal over granular pavement</td>
<td>Permitted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unsealed compacted formation</td>
<td>Permitted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Installation in pavement conditions not listed above is not permitted.