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Road Design Note

Accepted Safety Barrier Products

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Preface

Under the Transport Integration Act 2010 (Vic) the functions of the Head, Transport for Victoria (**Head, TfV**) include the development and implementation of standards, guidelines and practices for the public transport system, the road system and related matters.

Standards and Guidelines are administered by the Department of Transport and Planning (**DTP**) on behalf of the Head, TfV.

DTP Standards and Guidelines respond to Head, TfV objectives and responsibilities, legislative requirements, Victorian Government policies and guidelines, industry best practice and emerging technologies.

Any reference in this document to another document, standard or procedure that is expressed to be a VicRoads, Roads Corporation, Department of Transport (**DoT**), or DTP document, standard or procedure shall be interpreted and applied as though it was a document, standard or procedure of Head, TfV. Any reference in any such document, standard or procedure to a legal right or obligation of VicRoads, Roads Corporation, DoT or DTP shall be deemed to be a right or obligation of Head, TfV.

Nomenclature

① This symbol intends the accompanying text to be read as INFORMATION. Common information accompanying this symbol includes RATIONALE and GUIDANCE for the associated requirement.

Disclaimer

While every care has been taken in preparing this publication, DTP makes no warranties or representations whatsoever about the accuracy, completeness, relevance or reliability of any information contained in it. This publication is provided on the basis that any person viewing it will assume responsibility for assessing the relevance and accuracy of its contents and reliance on the information, and compliance with the publication will be at that person's risk. To the extent permitted by law, DTP is not liable in negligence or otherwise for liability or loss arising from, and any costs incurred in connection with this publication or its use.

Interpretation

In this document, except where the context otherwise requires—

- The words “shall” and “must” denotes a requirement which is mandatory.
- The word “should” denotes a requirement which is not mandatory but recommended.
- The word ‘may’ denotes a requirement which is not mandatory but is an allowance or suggestion.
- The word “includes” in any form is not a word of limitation. Mentioning anything after “includes” or similar expressions (including “for example”) does not limit what else may be included.
- Reference to a section, clause, schedule or appendix is a reference to a section, clause, schedule or appendix of this document.

Contents

1. Introduction.....	4
1.1 Purpose.....	4
1.2 Scope.....	4
1.3 Applicability.....	4
1.4 Document Context	4
2. General Conditions of Use.....	5
2.1 Acceptance Conditions	5
2.2 System Supplier and Procurement.....	5
2.3 Acceptance Definitions.....	5
2.4 Accepted Test Level.....	5
2.5 Austroads Technical Conditions of Use (TCU) and DTP Conditions & Variants	5
2.6 Product Manuals and Marketing Information.....	6
2.7 Installation	6
2.7.1 Victorian Implementation of the ASHTAS Scheme.....	6
2.8 Repair	6
2.9 Aesthetic Barriers.....	6
2.10 Worksite Safety Barrier Screens	7
2.11 Truck Mounted Attenuators	7
2.12 Median Gates.....	7
2.13 Foundations	7
2.14 Terminals	7
2.15 Minimum Barrier Lengths	7
2.16 WRSB Driven Post Sleeve Variants.....	8
2.17 Roadside Bollards	8
3. Safety Barrier Products.....	10
3.1 Speed Limitations – Temporary End Treatments	10
3.2 Design of Wire Rope Safety Barrier (WRSB)	10
3.3 Conditional Acceptance of NCHRP-350 Wire Rope Safety Barriers	11
3.4 Motorcyclist Friendly Covers	11
3.5 MASH Transition	11
3.6 Replacement and Upgrade of Legacy Products.....	12
3.7 Use of Surface Mount Variants for W-beam Barriers	12
3.8 Conditions of Use for Raptor Barrier	12
4. Accepted Permanent Products.....	14
5. Accepted Temporary Products.....	28
6. Miscellaneous Products.....	35
7. Discontinued and Legacy Products	36
8. Register of System Suppliers	43
9. References	46
10. Contact Details	47
Appendix A – Revision History Notes	48
Appendix B – Previous Publications	51

1. Introduction

1.1 Purpose

This document provides a list of road safety devices that Department of Transport and Planning (DTP) has assessed and considers acceptable for use on the declared road network, subject to appropriate design and installation. For roads not on the declared road network (e.g. local roads), the responsible road authority (e.g. Councils) should be contacted to determine if this list is applicable.

1.2 Scope

This document provides a list of road safety devices that have been deemed suitable in accordance with AS/NZS 3845.

1.3 Applicability

This document applies to the declared road network.

1.4 Document Context

Designers should use this list of Accepted Safety Barrier Products in conjunction with:

- the 'Austroads Guide to Road Design (AGRD) - Part 6', 'DTP Supplement to AGRD - Part 6' and Road Design Notes, which describe the steps involved in designing a safety barrier,
- the 'General Conditions of use' and 'Safety Barrier Policies' detailed below,
- the 'Austroads Technical Conditions of Use (TCU)' and 'DTP specific conditions or variants' listed below, which detail any product specific limitations identified through assessment,
- the individual 'Product Installation and Maintenance Manuals', which are provided by the product owner or supplier to help achieve the desirable installation.

Further information on this list, the product assessment process and barrier performance requirements are provided below. Where reference to "VicRoads" approved products is made for the acceptance of Safety Barrier Products, this document shall be deemed to satisfy that requirement. For further clarification, please contact the Engineering Standards team.

2. General Conditions of Use

Safety barrier products must be used in accordance with the following conditions of use.

2.1 Acceptance Conditions

All products accepted for use by the DTP are listed below and will have a DTP Letter of Acceptance issued to the Proponent (typically the System Supplier). Using a product that is not accepted for use or using a product outside the parameters for which it has been accepted by DTP, represents an unacceptable risk to road users.

Where a departure from the 'Austroads TCU' or 'DTP Conditions and Variants' is required, users should understand and document the risks and apply engineering judgement.

Acceptance is based on the information supplied by the Proponent at the time of assessment. DTP must be informed of any changes to a product and will determine if a re-assessment is required.

DTP will periodically review all products accepted for use in Victoria based on, but not limited to, the Austroads Safety Barrier Assessment Panel (ASBAP) recommendations, in-service performance, industry use, maintenance and durability requirements and reserves the right to withdraw or modify this acceptance at any time.

Acceptance can be withdrawn at any time if the manufacture, fabrication or quality of the product is deemed inferior or different to the product specified in the drawings and specifications supplied for the assessment.

Suppliers (or proponents) seeking DTP acceptance of a road safety barrier system, product or device which is not included in this document are referred to the ASBAP webpage or to contact the 'Manager – Road Engineering Standards' at StandardsManagementRD@transport.vic.gov.au.

2.2 System Supplier and Procurement

This listing nominates a "System Supplier" for each proprietary product. It is a requirement of DTP that proprietary products are sourced from the nominated System Supplier (or their agent).

2.3 Acceptance Definitions

Acceptance definitions are "Accepted", "Not Accepted", "Legacy", "Phase Out" and "Suspended".

"Legacy" status allows retention of permanent products until the end of service life (refer Section 3.6).

"Legacy" status permits use of remaining temporary barrier units. "Phase Out" status applies to temporary products only and means the product will remain in service to a fixed date after which time it will be withdrawn from acceptance.

2.4 Accepted Test Level

While the product may have been tested in accordance with different test levels and/or test protocols, the test level specified represents the accepted test level in Victoria.

The minimum test level required for a site must be determined using engineering judgement and information obtained from a site-specific risk assessment. Refer 'DTP Supplement to AGRD – Part 6' for guidance on Test Level selection.

For the design of bridge barriers and 'Performance Level' barriers, no consideration shall be made of test levels or the implied equivalence of test levels to performance levels that is given in table 14.4 of AS5100.1, as per BTN001. Performance Level barriers must be designed to fully comply with the requirements of AS5100.

2.5 Austroads Technical Conditions of Use (TCU) and DTP Conditions & Variants

To improve national harmonisation, the Austroads Technical Conditions of Use (TCU) will be adopted by DTP when deemed suitable. Where Austroads has issued multiple revisions of a TCU, the revision specified and linked in this document must be adopted.

Where DTP has specific conditions or variants, they will be detailed in the relevant column (below) or in a Detail Sheet. Where DTP does not have additional product conditions or variants, this column will contain 'Nil' and the Austroads TCU must be adopted.

In special circumstances, the DTP may accept a road safety product that has not been assessed by the ASBAP and therefore does not have an Austroads TCU. As such, a DTP Detail Sheet will be provided and referenced.

For guidance on interpreting the information contained in the TCU, refer to [SBTA 22-001](#)

2.6 Product Manuals and Marketing Information

Users are advised that information published by the system suppliers on their websites, within product manuals and included in promotional material, may not always reflect the actual products accepted or the conditions by which the products are accepted by DTP. This list and information contained within the TCUs and DTP conditions and variants shall take precedence over information published by the System Supplier. This may include variants to products for which DTP remains silent on.

2.7 Installation

Road safety devices must be installed in accordance with the Product and Installation Manual.

In addition, products must be installed in accordance with 'Standard Section 708 - Steel Beam Guard Fence' and/or 'Standard Section 711 - Wire Rope Safety Barriers' when relevant.

2.7.1 Victorian Implementation of the ASHTAS Scheme

Unless otherwise specified in Section 708 and Section 711:

- From 01/07/2024, all Wire Rope Safety Barrier, Guard Fence Barrier, and associated WRSB or Guard Fence terminal installations, maintenance and repairs must be done by an Austroads Safety Hardware Training and Accreditation Scheme (ASHTAS) accredited individual with the minimum requirement being the successful completion of the ASHTAS 'Operative' course. Individuals may also become accredited under ASHTAS and for the product which is being installed, repaired or maintained by completing the relevant ASHTAS 'Installer' courses.
- From 01/07/2024, a 'Leading Hand' installer who has completed the relevant ASHTAS 'Installer' courses may sign off the Certificate of Compliance (CoC) in place of the Licensed Supplier.

The Superintendent can request proof of ASHTAS accreditation of crew members at any time before, during and after the installation, maintenance, or repair of the permanent barrier system. For more information about available ASHTAS scheme please see the following link: <https://austroads.gov.au/safety-and-design/ashtas>.

2.8 Repair

Barrier units/components must be traceable in accordance with markings prescribed by Australian/New Zealand Standard "AS/NZS 3845 Road Safety Barrier Systems" and Road Agency specifications.

Damaged components must be replaced or repaired in accordance with the Product and Installation Manual.

2.9 Aesthetic Barriers

At the time of publishing this list, DTP has not assessed or accepted for use any Aesthetic Road Safety Barriers for use on the declared road network. In accordance with Section 6.6 of Austroads Guide to Road Design (AGRD) Part 6, Aesthetic Barriers might be considered in parks, historical communities, scenic areas or private road developments. If a road asset owner is considering the use of such barriers, it is recommended that the responsible road authority undertakes a site-specific risk assessment considering crash test performance, availability of terminals and whole-of-life costs of the system, in order to make an informed engineering decision. As a minimum, it is recommended that such barriers be crash tested to recognised crash test criteria, preferably MASH, and consideration should be given to any 'conditions of use' published by the Federal Highway Administration (FHWA).

2.10 Worksite Safety Barrier Screens

DTP does not maintain a list of accepted worksite barrier screens (also known as anti-debris or anti-gawk screens). As such, it is ultimately the responsibility of the product owner and contract superintendent to review the project specific use, with due consideration of RDN 06-12 – Worksite safety barrier screens.

2.11 Truck Mounted Attenuators

Truck Mounted Attenuators (TMAs) must be deployed and operated in accordance with National and State requirements, specifically where operational best practice is prescribed.

The following is an interim inclusion until the release of the Austroads Guidance for the use of Truck Mounted Attenuators during Temporary Traffic Management (NEG6522).

- TMA Compliance
 - Impact Attenuator Units that do not meet MASH (or equivalent) are no longer accepted for use in Victoria.
 - Trailer mounted attenuators are NOT accepted for use in Victoria.
- Design and manufacture features and characteristics of TMAs.
 - The TMA host vehicle must have a tare weight that is between the minimum and maximum specified in the TMA Technical Conditions of Use (TCU). Where suitable, DTP recommends a vehicle tare weight of 15t for TL-3 TMAs and greater than 4,501kg for TL-2 TMAs. Additional weights / ballast should not be added or used during operation to achieve the tare weight requirements.
- Training
 - It is mandatory that anyone operating a TMA has successfully completed training in TMA operation with a DTP approved training provider and gain an Operate Truck Mounted Attenuator accreditation.

2.12 Median Gates

All median gate installations must include establishment of an appropriate maintenance plan and operating procedure in collaboration with the System Supplier to ensure reliable use of the product.

2.13 Foundations

Local and Utility Authorities must be notified of any proposed installation prior to the commencement of works, as separate approval may be required.

Footings/foundation details and associated technical requirements are outlined within the supplier's Product and Installation Manual. Prior to installing the product, contact "Dial Before You Dig" or visit the website <https://www.1100.com.au>.

2.14 Terminals

Approved terminals must be installed where the barrier may be impacted by an errant vehicle. Where a departure terminal cannot be impacted, the barrier must be suitably anchored in accordance with the TCU and product manual.

Certain terminals and crash cushions are specifically designed and approved for unidirectional applications and will be detailed in the TCU. These products are engineered to effectively manage impacts from vehicles traveling in a single direction, typically at the leading end of a barrier system. These terminals must not be installed where subjected to impacts from the opposite direction.

2.15 Minimum Barrier Lengths

Minimum safety barrier lengths are to be in accordance with the DTP Supplement to AGRD Part 6. While barrier lengths shorter than the tested article length shown in the Austroads TCUs are possible, the designer

must consider how this will affect other performance values (e.g. deflection). Designers should consult with the product supplier or mitigate the risk through additional controls, such as reducing the posted speed.

2.16 WRSB Driven Post Sleeve Variants

Due to its behaviour, driven post sleeves are more susceptible to soil strength compared to concreted sleeve foundations. Hence an assessment and soil test must be undertaken prior to the use of a Driven Post Sleeve variant.

At all locations:

- Dynamic Cone Penetration Testing (DCPT) shall be undertaken at 500m intervals. Within 1m below the finished surface, test shall be 10 blows or greater per 100mm penetration. All tests shall be undertaken in accordance with AS1289.6.3.2. Test results shall be provided to the Superintendent for review 7 days prior to installation. The Superintendent may request additional testing if any of the test sites fail the DCPT test at no cost to the principal.
- Full compliance of Standard Section 711 shall be practiced.

Where new earthworks (greenfield) are required:

- Driven post sleeves must be installed in granular fill constructed in accordance with Standard Section 204 - Type A material. Installation shall not commence until approval from the Superintendent has been obtained.

2.17 Roadside Bollards

DTP has adopted a new methodology for assessing and accepting bollard products based on the four main bollard categories outlined in the table below. The objective, minimum performance requirements and the acceptance process for each bollard type is summarised below. Refer to the Supplement to AGRD Part 6 for additional guidance.

Type	Objective	Performance	Acceptance process
Road Safety Bollard	To protect errant vehicles from hazards and/or other roadside features.	Compliant crash testing to AS/NZS 3845.2:2017. This standard requires bollards to demonstrate an acceptable level of crashworthiness for a specified containment level and are evaluated for structural adequacy, occupant risk and vehicular trajectory.	Product suppliers should submit their product to the ASBAP. Following a favourable recommendation from ASBAP, the Supplier can submit to DTP for acceptance. If accepted, DTP will adopt the ASBAP TCU and publish the product in Section 6, under the 'Road Safety Bollards' category, and list the relevant MASH rating.
Pedestrian Protection Bollard	To protect pedestrians from errant vehicles in low-speed environments, or to shield high-severity hazards.	Compliant or Modified crash testing based on AS/NZS 3845.2:2017, where all departures/differences are documented and submitted for review. All occupant injury values must be recorded and submitted but are not required to meet thresholds within AS/NZS 3845.2:2017. Bollards must demonstrate, through crash testing, that they do not penetrate or show potential to penetrate the occupant compartment or present an undue	Given that this product type would NOT be evaluated by ASBAP, the Supplier may submit directly to DTP where the product will be assessed against the adjacent criteria. Any unvalidated computer simulation, any impact scenarios below 2.27T or 50km/h, and any submissions without occupant injury values, will not be accepted. If accepted, the product will be published in Section 6, under the 'Pedestrian Protection Bollard' category, with the maximum

Type	Objective	Performance	Acceptance process
		hazard to other traffic, pedestrians or personnel in a work zone. Bollards must establish a maximum impact scenario / containment level via crash testing or engineering analysis (LS-DYNA). Containment level is defined by the maximum vehicle weight and speed to be contained (e.g. 2,270kg at 50km/h). The MASH 2,270kg pick-up truck is recommended for testing as this covers the 90th percentile of passenger vehicles.	impact scenario listed e.g. 2270kg at 60km/h.
Roadside Furniture	For delineation, physical obstruction or minor asset protection in product suitable locations.	Crash testing, engineering analysis or other, based on the intended objective.	DTP does not assess or accept products within this category. These devices may only be used in situations where there is no requirement for protection from/for errant vehicles. Product selection should be based on merit and the intended objective.
Vehicle Security Barrier	To stop a hostile vehicle attack in accordance with IWA 14-2 and relevant guidelines.	Compliant 'Hostile Vehicle' crash testing in accordance with IWA14-1: Vehicle security barriers. Impact severity to be minimised for errant vehicles through product design.	DTP does not assess or accept products within this category.

3. Safety Barrier Products

3.1 Speed Limitations – Temporary End Treatments

To improve safety at worksites, DTP requires the following speed limitations on temporary end treatments.

Worksite Posted Speed	Freeways/Highways	Other rural and urban roads (>4000 vehicles)	Other rural and urban roads (<4000 vehicles)	Plastic Terminal Risk Assessment Considerations
90 or 100	Crash cushion only	Crash cushion only	Crash cushion only	Terminal performance: - Runout area required - Development length required - Max operating speed as shown; inc. out of hours Terminal visibility and impact likelihood: - Visibility (Sightlines) - Traffic Separation (Barrier Offset) - Road Geometry (Alignment & Width) - Road Conditions (Road Quality & Environmental) - Traffic Conditions (Road Type & Work Hours) - Traffic Control (Signs & Linemarking) - Work Activities (Proximity to Terminal) Plastic terminal risk assessments should be checked by a: - Road Safety Auditor - OH&S Co-ordinator, Manager or Equivalent
80	Crash cushion only	Crash cushion only	Crash cushion preferred, or TL-3 Plastic terminal with <u>completed risk assessment</u>	
70	Crash cushion only	Crash cushion preferred, or Plastic terminal with <u>completed risk assessment</u>	Crash cushion preferred, or Plastic terminal with <u>completed risk assessment</u>	
40 or 50	Crash cushion only, or As required, for “Short Term” works in accordance with RMA CoP Worksite Safety-Traffic Management	Any accepted safety barrier product	Any accepted safety barrier product	
- Crash cushion products are listed under “Temporary – Redirective Crash Cushion / Impact Attenuator” sub heading in Section 5. - Plastic terminal products are listed under “Temporary – Gating Non-Redirective End Treatments” sub heading in Section 5, where the first column refers to a product name, not a classification.				

3.2 Design of Wire Rope Safety Barrier (WRSB)

WRSBs are tested in a single configuration (including post spacing, length of barrier, curvature of barrier, wire rope tension and ambient temperature). For design versatility and assistance with broader network maintenance of the barrier system, DTP adopts a harmonised working width for all WRSB products in accordance with the DTP Supplement to AGRD Part 6.

3.3 Conditional Acceptance of NCHRP-350 Wire Rope Safety Barriers

As of January 2020, all NCHRP350 TL-4 WRSB products have been updated in line with a MASH reference point. These products will be conditionally accepted at MASH Test Level 3 with a predicted dynamic deflection and working width of 3.0 metres. New WRSB designs must adopt this dynamic deflection and working width value in order to safeguard the design so that upcoming MASH WRSB products may be substituted at installation.

UPDATE: Given the acceptance of multiple MASH WRSB products, all NCHRP WRSB products will be changed to Legacy (no new installations) on 1st January 2021. DTP recommends the use of MASH WRSB on all projects.

3.4 Motorcyclist Friendly Covers

Guard fence terminals (e.g. G.R.E.A.Ts) must be fitted with a plastic motorcyclist friendly cover, that covers the impact head, when installed:

1. on a Popular Motorcycle Route, as listed in DTP Supplement to AGRD Part 6- Appendix VA,
2. on routes with a history of motorcyclist run-off-road crashes,
3. on the outside of a tight horizontal curve (below minimum radii),
4. at an offset less than 1.0m from the edge of traffic lane.

Plastic motorcycle friendly covers must have a white-on-black retro-reflective hazard marker sticker, which must be applied using an effective epoxy.

Plastic motorcycle friendly covers must have a white-on-black retro-reflective hazard marker sticker, which must be applied using an effective epoxy.

3.5 MASH Transition

AS/NZS 3845.1:2015 and AS/NZS 3845.2:2017 specify MASH as the current basis for crash testing, thereby superseding NCHRP350. The changes are in response to the ongoing industry progress, market trends and changes in the average vehicle size, plus an increased availability of MASH tested products becoming available to the Australian market.

On 23 April 2018, the Austroads Safety Barrier Assessment Panel advised industry that all new products being submitted by industry must be in accordance with MASH or an equivalent rating in accordance with the Australian Standard. This decision encouraged progress and increased the number of MASH products available in Australia.

The Department of Transport and Planning is also adopting MASH as the nominal standard required for road safety devices in line with the ASBAP and AS/NZS 3845 requirements in accordance with the following timeframes:

31 December 2018

- Steel rail barriers and permanent concrete barriers.

31 December 2019:

- End Treatments (Guard Fence terminals and Crash Cushions)
- Wire Rope Safety Barriers (WRSB) incl. terminals

31 December 2021:

- Temporary barriers incl. terminals, AS/NZS 3845 Part 2 products (e.g. bollards and TMAs) and Transitions.

All NCHRP350 temporary safety barrier products now have a legacy status.

Temporary safety barriers

For temporary barriers, all contracts with a close of tender after 31 December 2021 must use MASH temporary safety devices. While all contracts signed before 31 December 2021 may continue to use NCHRP350 temporary safety barrier products until Practical Completion.

Temporary Truck Mounted Attenuators (TMAs)

Similar to temporary safety barriers, all contracts with a close of tender after 31 December 2021 must use MASH temporary safety devices. While all contracts signed before 31 December 2021 may continue to use NCHRP350 temporary TMAs until Practical Completion.

Guard Fence to Concrete Barrier Transition:

The Department of Transport and Planning developing a set of MASH transition drawings based on the Austroads recommended MASH transition from guard fence to concrete barrier. When released, this three-beam configuration will become the preferred guard fence to concrete barrier transition in all locations, where the longitudinal product has been deemed compatible.

Meanwhile, the transition configuration shown on SD4081, SD4082 and SD4084 will be phased out over 6 months and made legacy (withdrawn) on 31 December 2021.

Only transition listed in Section 4 of RDN 06-04 shall be used.

3.6 Replacement and Upgrade of Legacy Products

Safety barrier systems with a legacy status continue to provide the level of service at which they were originally tested. Unless specified below, legacy status products may be maintained and/or repaired until the end of their service life, or when parts are no longer available.

It is recommended that when long lengths of legacy items are damaged or within the limit of works, an assessment be made on whether an approved system may be installed instead as part of reinstatement works. Refer product specific notes within the 'Discontinued and Legacy products' section.

Replacement policies:

Existing MELT, BCTA, BCTB and Flexfence Standard Wire Rope terminals:

- must be replaced with an approved terminal after impact in the field or when replacement is required due to timber durability issues;
- must be replaced with an approved terminal if they exist within the limit of works for new projects.

Where a Flexfence Standard Wire Rope terminal is being replaced and the longitudinal NCHRP 350 system continues to provide a suitable level of service and is within its service life, the terminal may be replaced without upgrading the entire system.

Existing Type-B barrier installations, with a mounting height of <686mm to top of rail (lowest height within tolerance using the superseded mounting height of 706mm) must be replaced with an approved barrier system or upgraded using an Abraham Block-out.

3.7 Use of Surface Mount Variants for W-beam Barriers

Surface mount variants of accepted W-beam barrier products may be used in cases where posts cannot be driven into the ground. In these variants, the post is attached to a ground beam rather than embedded in the soil.

However, surface mount variants are not considered as effective as driven post installations. Therefore, their use should be limited to constrained locations where driven posts are not feasible, such as across culverts, areas with shallow rock or locations with shallow underground services.

Where surface mount variants are necessary, the total length of surface mount posts should be minimised to maintain barrier effectiveness.

3.8 Conditions of Use for Raptor Barrier

The RAPTOR is an energy absorbing safety device designed to reduce the severity of passenger vehicle impacts with poles.

However, when installed around a utility pole, a RAPTOR may introduce new risks such as public safety risks or utility operation risks. As such, a RAPTOR should be considered as an absolute last resort to more

conventional hazard treatments, such as hazard removal, hazard relocation or an appropriate safety barrier system. In many cases, hazard removal or relocation will provide a greater safety improvement compared with a RAPTOR.

All RAPTOR installations require DTP prior approval. Please email DTP with the following documentation as justification:

- Support from the associated asset owner of the utility pole.
- A suitable risk assessment that demonstrates the need for a RAPTOR and improved safety outcomes compared with alternate options such as safety barrier.
- Confirmation that sightlines can be achieved, following installation of the RAPTOR, in accordance with the relevant Austroads Guide and Standards.
- Confirmation that the RAPTOR has been designed in accordance with the TCU and the System Suppliers requirements.

All RAPTOR installations are required to be coloured **black**. No advertising is permitted on the RAPTOR.

All RAPTOR installations are required to have an adhesive sticker with a Contact Number and Site Number in accordance with VicRoads Standard Drawing TC2100. To obtain a Site Number, the project must contact ITS_Operations_Management@roads.vic.gov.au, request a new site be created for the particular RAPTOR Site, and provide the following details:

- Site Name
- Site Type (Hazard Protected)
- Owner
- Road Classification
- Comments
- GPS Latitude/Longitude
- Requestor Name
- Requestor Phone Number
- Requestor Email Address

This sticker is to be attached to the RAPTOR and shall be visible to motorists.

Post Installation

Periodic Asset Inspections

Each RAPTOR is identified by an asset number which is marked along with the DTP (previously VicRoads) TMC contact number.

When the asset owner needs to inspect its pole, DTP TMC must be notified a minimum 10 days in advance for the RAPTOR to be removed. DTP can be contacted on 13 11 70 quoting the asset number(s) of the RAPTOR(s) affected by the inspection.

TMC will then be able to advise the relevant Region for the removal of the subject RAPTORs to allow access for asset owner operations. Removal shall be carried out in accordance with the INGAL Product Manual (October 2018). Once inspection works have been completed, TMC shall be notified that RAPTORs can be reassembled at the subject poles. TMC shall advise the Region accordingly.

Asset Damage

Where it has been discovered that a RAPTOR has been impacted by an errant vehicle, DTP shall notify the asset owner that the RAPTOR (identified by an Asset Number on sticker) at the location has been impacted so that asset owner can inspect the pole's condition, etc.

In addition, if the asset owner is aware that a RAPTOR has been impacted/moved, DTP shall be notified so that the device is inspected to ensure its crashworthiness and correct orientation around the pole.

Where the DTP sticker on a RAPTOR has been defaced or removed, TMC shall be contacted on 13 11 70 identifying the pole location so that a new sticker can be reapplied. **Damaged components must be replaced. Repaired components must not be used.**

4. Accepted Permanent Products

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Wire Rope Safety Barrier					
Brifen MASH	Safe Direction	TL-3	7 Mar 2024		Nil Note: WRSB system includes proprietary terminal
Sentryline-M	Safe Direction	TL-3 TL-4	7 Mar 2024		Driven Post Sleeve variant. Refer Section 2.16. A unidirectional hazard marker (based on sign D4-1-2A) shall be placed on the end terminal. The unidirectional marker shall be resized to fit within the available space on the end terminal. Note: WRSB system includes proprietary terminal
MashFlex	Ingal Civil Products	TL-3 TL-4	7 Mar 2024		Nil Note: WRSB system includes proprietary terminal
W-beam Barrier – Flexible and Semi-rigid					
Ezy-Guard Smart	Ingal Civil Products	TL-3	7 Mar 2024		Socketed variant may be used in locations where there are demonstrated maintenance benefits (e.g. narrow flush medians). Concrete socket foundations must be designed to limit the amount of movement during an impact. The tested foundation (300mm Dia x 1000mm Deep) was installed in 100mm deep lift asphalt on 500mm weak soil (32 ϕ / 75kPa) on 400+mm weak soil (25 ϕ / 50kPa). For conditions on the use of Surface Mount variant, please refer to Section 3.7

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Ezy-Guard 4	Ingal Civil Products	TL-3	16 Sept 2025		Socketed variant may be used in locations where there are demonstrated maintenance benefits (e.g. narrow flush medians). Concrete socket foundations must be designed to limit the amount of movement during an impact. The tested foundation (300mm Dia x 1000mm Deep) was installed in 100mm deep lift asphalt on 500mm weak soil (32ϕ / 75kPa) on 400+mm weak soil (25ϕ / 50kPa). For conditions on the use of Surface Mount variant, please refer to Section 3.7
Ezy-Guard Smart Median Safety Barrier	Ingal Civil Products	TL-3	7 Mar 2024		Socketed variant may be used in locations where there are demonstrated maintenance benefits (e.g. narrow flush medians). Concrete socket foundations must be designed to limit the amount of movement during an impact. The tested foundation (300mm Dia x 1000mm Deep) was installed in 100mm deep lift asphalt on 500mm weak soil (32ϕ / 75kPa) on 400+mm weak soil (25ϕ / 50kPa). For conditions on the use of Surface Mount variant, please refer to Section 3.7
Ezy-Guard 4 Median Safety Barrier	Ingal Civil Products	TL-3	7 Mar 2024		Socketed variant may be used in locations where there are demonstrated maintenance benefits (e.g. narrow flush medians). Concrete socket foundations must be designed to limit the amount of movement during an impact. The tested foundation (300mm Dia x 1000mm Deep) was installed in 100mm deep lift asphalt on 500mm weak soil (32ϕ / 75kPa) on 400+mm weak soil (25ϕ / 50kPa). For conditions on the use of Surface Mount variant, please refer to Section 3.7

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
EZY-GUARD HD (Heavy Duty) Safety Barrier	Ingal Civil Products	TL3	7 Mar 2024		Nil
Ramshield	Safe Direction	TL-3	7 Mar 2024		For conditions on the use of Surface Mount variant, please refer to Section 3.7
Ramshield Low Deflection Safety Barrier	Safe Direction	TL-3	4 Dec 2025		For conditions on the use of Surface Mount variant, please refer to Section 3.7
Ramshield Median (Back-to-Back) Safety Barrier	Safe Direction	TL-3	16 Sept 2025		Nil
Sentry W-Beam Safety Barrier	Safe Direction	TL-3	7 Mar 2024		For conditions on the use of Surface Mount variant, please refer to Section 3.7
Sentry W Beam Median Safety Barrier	Safe Direction	TL-3	7 Mar 2024		For conditions on the use of Surface Mount variant, please refer to Section 3.7
Type-B Guard Fence	Public Domain System	TL-2	Nil		Refer Type-B Detail Sheet (April 2019)
Thrie-beam Barrier					
Ezy-Guard HC	Ingal Civil Products	TL-3 TL-4	16 Sept 2025		Nil Note: Ezy Guard High Containment Barrier system has no relation and is not the equivalent of the High Containment (Special) performance level stated in AS5100, DTP Bridge Traffic Barrier Performance Levels and Design Loads, and DTP

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
					Guidelines for Bridge Approach and Departure Barrier.
Ezy-Guard HC Median Safety	Ingal Civil Products	TL-3 TL-4	7 Mar 2024		Nil Note: Ezy Guard High Containment Barrier system has no relation and is not the equivalent of the High Containment (Special) performance level stated in AS5100, DTP Bridge Traffic Barrier Performance Levels and Design Loads, and DTP Guidelines for Bridge Approach and Departure Barrier.
EZY-GUARD LDS Safety Barrier	Ingal Civil Products	TL-3 TL-4	16 Sept 2025		Nil
Sentry Thrie-Beam Safety Barrier	Safe Direction	TL-3 TL-4	7 Mar 2024		Nil
Sentry Thrie-Beam Median Safety Barrier	Safe Direction	TL-3 TL-4	7 Mar 2024		Nil
RAMSHIELD High Containment Steel Safety Barrier	Safe Direction	TL-3 TL-4	3 June 2025		Nil Note: Ramshield High Containment Barrier system has no relation to and is not the equivalent of the High Containment (Special) performance level stated in AS5100, DTP Bridge Traffic Barrier Performance Levels and Design Loads, and DTP Guidelines for Bridge Approach and Departure Barrier. For conditions on the use of Surface Mount variant, please refer to Section 3.7

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
HighwayGuard Safety Barrier	Highway Care International	<u>Standard:</u> TL-3 TL-4	7 Mar 2024		F-shape concrete barrier is the preferred system in permanent applications. All installations of this product must receive prior approval from DTP via the TRP process, whereby the benefit is clearly demonstrated and cannot be resolved with F-Shape concrete. Note for LDS variant: While LDS is recognised as a MASH TL-4 variant, DTP notes the undesirable vehicle roll-over, which is a fundamental limitation of the barrier height & stiffness. DTP recommends all users adopt a 920mm F-Shape concrete barrier system in lieu.
		<u>LDS:</u> TL-3 TL-4	3 June 2025		
		<u>MDS:</u> TL-3	7 Mar 2024		

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
Other					
SAFETY ROLLER Steel Rail Safety Barrier	Ambient Technologies	TL-4	4 April 2023		Nil
CrocGuard Permanent Safety Barrier	Safe Direction	TL-3 TL-4	16 Sept 2025		May only be used on undivided carriageways with volumes < 1,000 AADT. Installations proposed on undivided carriageways with volumes between 1,000 – 4,000 AADT require approval by DTP.
Quick-Change Concrete Reactive Tension Barrier System	Lindsay Transport Solutions	TL-3	4 Sept 2024		Traffic Management This system is likely to be used for traffic operation improvements during peak periods and therefore must be designed and approved in accordance all Austroads and DTP traffic engineering guidelines Temporary or Permanent use on the Road Reserve Prior to use, the applicant must engage the Engineering department for commentary on the proposed solution. Approval from DTP must be received prior to use.

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
Tall42 Movable Concrete Barrier	Safe Direction	TL-3 TL-4	3 June 2025		Traffic Management This system is likely to be used for traffic operation improvements during peak periods and therefore must be designed and approved in accordance all Austroads and DTP traffic engineering guidelines. Temporary or Permanent use on the Road Reserve Prior to use, the applicant must engage the Engineering department for commentary on the proposed solution. Approval from DTP must be received prior to use. Note: The barrier system is to be used with Quash Crash Cushion. It should be noted that the crash cushion is approved for temporary applications only. For any permanent installation, an inspection and maintenance plan must be developed and implemented.
Transitions					
Ingal RBT (Rigid Barrier Transition)	Ingal Civil Products	TL-3	16 Sept 2025		Nil
Ramshield Transition	Safe Direction	TL-3	16 Sept 2025		Nil
Austroads Transition (refer SBTA 21-005)	Public Domain System	TL-3	7 Mar 2024		Please refer to drawings SD3951 , SD3952 , SD3953 , SD3954 and SD3955 when designing and installing the Austroads Transition.
Permanent – Gating Redirective Energy-Absorbing Terminals (G.R.E.A.T)					
MASH Sequential Kinking Terminal (MSKT)	Safe Direction	TL-2 TL-3	7 Mar 2024		Nil

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
ET-SS	Ingal Civil Products	TL-2 TL-3	27 Nov 2024		Nil Note: Base plated post variant should be limited to constrained locations where a driven post cannot be installed
MAX-Tension	Safe Direction	TL-2 TL-3	7 Mar 2024		Nil
Trend Median Terminal	Ingal Civil Products	TL-3	4 Sept 2024		Nil
GMET Terminal	Safe Direction	TL-3	16 Sept 2025		Nil
4F-T Terminal	Ingal Civil Products	TL-3	16 Sept 2025		Shares similar components with the Trend Median Terminal
Permanent – Gating Non-Energy Absorbing Terminals					
Trailing Terminal	Public Domain System	Departure only	Nil		Refer SD3544 Curved Trailing Terminals should be used as the default, in accordance with SD3544 and SD3562 . Straight Trailing Terminals may only be used where space constraints prevent use of a curved trailing terminal (e.g. the presence of an off-road pedestrian and cyclist path). Straight Trailing Terminals must adopt SD3562 componentry, with the exception of a 'Straight End Rail'.

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Permanent – Redirective Crash Cushions / Impact Attenuators					
QuadGuard M10	Ingal Civil Products	TL-2 TL-3	7 Mar 2024		Nil
QuadGuard Elite M10	Ingal Civil Products	TL-3	7 Mar 2024		Nil
SMART Steel	Hill & Smith - Australia	TL-2 TL-3	7 Mar 2024		Nil
Universal TAU-M	Safe Direction	TL-2 TL-3	7 Mar 2024		Nil
TAU-XR	Safe Direction	TL-3	26 Nov 2024		Nil
Hercules	Safe Direction	TL-2 TL-3	16 Sept 2025		Nil
Permanent – Pole Protector / Single Hazard Protection					
Raptor Single Point Protector	Valmont Highway	TL-1	1 Dec 2021		Refer to Section 3.8 for conditions of use.
Permanent – Median Gates					
ArmorGuard Gate System	Safe Direction	NCHRP TL-3	20 Nov 2020		Nil

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
BG800 Steel Gate	Ingal Civil Products	NCHRP TL-3	20 Nov 2020		Nil
VEVA3 Median Steel Gate	Traffic Tech	NCHRP TL-3 (EN1317)	20 Nov 2020		Accepted at 100km/h
Cado Emergency Gate	Traffic Tech	TL-3	2 Sept 2022		All CADO Gate installations require site specific acceptance from the DTP Chief Engineer - Roads. All applications must demonstrate suitability and whole-of-life value, in consultation with the System Supplier. Relevant product limitations must be considered and assessed, such as environmental exposure effects, wind speed limitations and vertical height clearances, and A 'Failure Modes and Effects Analysis' must be completed for all likely use scenarios. All CADO Gate installations also require a site-specific operation plan and maintenance management plan, prior to acceptance. - The CADO Gate opens vertically and can be operated remotely or from a nearby control cabinet. In addition, some CADO Gate components require periodic inspection and maintenance up to 4 times per year. - These considerations must be evaluated and documented within the site-specific operation plan and maintenance plan.

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
					Where the CADO Gate is operated remotely from a Traffic Control Centre, endorsement must be obtained from the DTP Intelligent Transport Systems team and Transport Operations Centre.

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Permanent – Motorcycle Safety Products					
Rub Rail	Public Domain System	Conditionally accepted	Nil		Proposed locations require approval by M-RD&SSE prior. Steel rail with bracket installed below W-beam. Can be attached to existing or new Type B guard fence to prevent motorcyclist impacts with the supporting posts. Must be terminated before a G.R.E.A.T
INGAL MPR	Ingal Civil Products	EN1317- 8 Impact Severity Level 1	8 Jan 2017		Accepted on Ezy-Guard Smart/4 Safety Barrier. Conditional acceptance for use on Type B guard fence. Proposed locations require approval by M-RD&SSE prior. Can be attached to existing or new Type B guard fence to prevent motorcyclist impacts with the supporting posts. Must be terminated before a G.R.E.A.T
BIKER-SHIELD Motorcyclist Protection Device	Safe Direction	EN1317- 8 Impact Severity Level 2	7 June 2021		Accepted on Ramshield Barrier. Notes: Steel rail with bracket installed below W-beam. Must be terminated before a G.R.E.A.T
RiderPro Motorcyclist Protection Device	Safe Direction	EN1317- 8 Impact Severity Level 1	18 Dec 2020		Accepted on SENTRY W-beam Barrier and SENTRY Thrie-beam Barrier. Notes: Steel rail with bracket installed below W-beam or Thrie-beam. Must be terminated before a G.R.E.A.T
PolyBuffer Rail System	DM Plastics & Steel	Conditionally accepted	Nil		Proposed locations require approval by M-RD&SSE prior. Hollow rectangular polyethylene rails that fit under the W-beam to prevent motorcyclist impacts with the steel posts. Suitable on terminals only.

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
Stack Cushion	Ingal Civil Products	Conditionally accepted	Nil		Proposed locations require approval by M-RD&SSE prior. <u>Notes:</u> Polystyrene foam cushion made up of two pieces that attach to existing Flexfence WRSB posts to provide a softer impact for errant motorcyclists. Protection is offered to one side of the post only, therefore suitable for verge applications.
Barriacel	LB Australia	Conditionally accepted	Nil		Proposed locations require approval by M-RD&SSE prior. <u>Notes:</u> Patented impact absorbing material technology. Wraps around the post. Available in single or double wrap system.
Impact-Protect	LB Australia	Conditionally accepted	Nil		Proposed locations require approval by M- RD&SSE prior. <u>Notes:</u> Fitted inner layer followed by a series of outer layers made from specially designed impact absorbing core. Layers held with high tenacity 'Cavacon' wrap. Made to fit posts and poles

5. Accepted Temporary Products

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Temporary – Steel Longitudinal Barriers					
Mobile Safety Barrier MBT-1	Mobile Barriers LLC	TL-3 (with TL-3 rated TMA)	7 Mar 2024		Vehicle registration requirements 1. The operator of the vehicle will need to obtain registration and permits of use through VicRoads Customer Service Centres. 2. Registration will need to cover all configurations of the truck, including all variations of 1-3 units of barrier section/trailer components. Route Planning/Traffic Management • Operators must plan routes to avoid over-length or over-weight non-compliance whilst transporting this vehicle. • Operators must comply with VicRoads requirements for Traffic Management Plans must be developed for approval by DTP project team prior to deployment.
BG800 Suite of products	Ingal Civil Products	<u>Standard:</u> TL-3 TL-4	26 Nov 2024		To mitigate potential undesirable occupant impact velocities presented by current connections, installations must comply with speed restrictions of 80km/h or less on asphalt foundations and 70km/h or less on concrete foundations. Full acceptance will be provided upon receiving a favourable ASBAP recommendation.
		<u>LDS:</u> TL-2 (modified)	22 Mar 2024		
		<u>MDS:</u> TL-3	22 Mar 2024		
Defender Barrier 70	Safe Barriers	<u>Free Standing:</u> TL-2	7 Mar 2024		Nil

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Defender Barrier 100 Suite of products	Safe Barriers	<u>Free Standing:</u> TL-3	7 Mar 2024		Nil
		<u>High Containment:</u> TL-3 TL-4	7 Mar 2024		Nil
		<u>LDS:</u> TL-3	7 Mar 2024		Nil
Highway-Guard Safety Barrier	Highway Care International	<u>Standard:</u> TL-3 TL-4	7 Mar 2024		Nil
		<u>LDS:</u> TL-3 TL-4	3 June 2025		While LDS is recognised as a MASH TL-4 variant, DTP notes the undesirable vehicle roll-over, which is a fundamental limitation of the barrier height & stiffness. DTP recommends all users adopt the standard variant for TL-4 applications.
		<u>MDS:</u> TL-3	7 Mar 2024		Nil
HV2 Barrier	Saferoads Pty Ltd	<u>Free Standing:</u> TL-3 TL-4	7 Mar 2024		Nil
IronMan Hybrid	Saferoads Pty Ltd	<u>Free Standing:</u> MASH TL-2	7 Mar 2024		Nil
SafeZone Safety Barrier	Jaybro Group	<u>Standard:</u> TL-3 TL-4	21 Feb 2025		Nil
		<u>LDS:</u> TL-3 TL-4	3 June 2025		While LDS is recognised as a MASH TL-4 variant, DTP notes the undesirable vehicle roll-over, which is a fundamental limitation of the barrier height & stiffness.

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
					DTP recommends all users adopt the standard variant for TL-4 applications.
		<u>MDS:</u> TL-3	21 Feb 2025		Nil
ZONE-GUARD	Hill & Smith - Australia	<u>Standard:</u> TL-3 TL-4	7 Mar 2024		Nil
		<u>MDS:</u> TL-3	7 Mar 2024		Nil
Temporary – Concrete Longitudinal Barriers					
Rebloc 80SAH_12	Hill & Smith - Australia	<u>Free Standing:</u> TL-3 TL-4	16 Sept 2025		Nil - This barrier has 12 metre unit lengths. The system is freestanding and should be anchored at the ends only.
Rebloc 80SAH_12_8B	Hill & Smith - Australia	<u>Pinned:</u> TL-3	16 Sept 2025		Nil - This barrier has 12 metre unit lengths. The system should be pinned to the concrete/asphalt surface.
Rebloc 80SAH_4	Hill & Smith - Australia	<u>Free Standing:</u> TL-3	7 Mar 2024		Nil - This barrier has 4 metre unit lengths.
Rebloc 120FA_6_SF	Hill & Smith - Australia	<u>Free Standing:</u> TL-3 TL-5	7 Mar 2024		Nil - This barrier has 6 metre unit lengths.
JJ Hooks 6m Concrete Safety Barrier	Australian Road Barriers	<u>Free Standing:</u> TL-3	7 Mar 2024		Nil

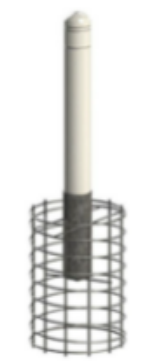
Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
3.6M JJ Hooks Safety Barrier	Australian Road Barriers	<u>Free Standing:</u> TL-3	7 Mar 2024		Accepted at 70km/h
T-LOK MASH	Saferoads Pty Ltd	<u>Free Standing:</u> TL-3	7 Mar 2024		Accepted at 100km/h
T-Lok Rubber Safety Barrier	Saferoads Pty Ltd	<u>Free Standing:</u> TL-3	7 Mar 2024		Not permitted for connection to T-Lok MASH Safety Barrier
DB80 K150 (DeltaBloc)	Jaybro	<u>Free Standing:</u> TL-3	3 June 2025		Nil- TL3 freestanding barrier with a removable coupling system
DB80 T150S Concrete Safety Barrier	Jaybro	<u>Free Standing:</u> TL-3 TL-4	3 June 2025		Nil- TL3/TL4 barrier with fixed connection and lower deflection.
DB80A T150S Concrete Safety Barrier	Jaybro	<u>Pinned:</u> TL-3	3 June 2025		Nil- TL3 lowest deflection in the range with is either pinned in asphalt or chemically anchored in concrete. Pinning and anchoring only on the traffic side not the work zone side.
PIN and LOOP	Retsel Holdings	<u>Standard:</u> TL-3	7 Mar 2024		Nil
		<u>LDS:</u> TL-3	7 Mar 2024		Nil
Quick-Change Concrete Reactive Tension Barrier System	Lindsay Transport Solutions	TL-3	4 Sept 2024		Traffic Management This system is likely to be used for traffic operation improvements during peak periods and therefore must be designed and approved in accordance all Austroads and DTP traffic engineering guidelines. Temporary or Permanent use on the Road Reserve

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
					Prior to use, the applicant must engage the Engineering department for commentary on the proposed solution. Approval from DTP must be received prior to use.
Tall42 Movable Concrete Barrier	Safe Direction	TL-3 TL-4	3 June 2025		Traffic Management This system is likely to be used for traffic operation improvements during peak periods and therefore must be designed and approved in accordance all Austrroads and DTP traffic engineering guidelines. Temporary or Permanent use on the Road Reserve Prior to use, the applicant must engage the Engineering department for commentary on the proposed solution. Approval from DTP must be received prior to use.
Temporary – Plastic Water-Filled Longitudinal Barriers					
ArmorZone MASH	Ingal Civil Products	TL-1 TL-2	7 Mar 2024		Nil
SHIELD 1	National Plastics Group	TL-1	7 Mar 2024		Nil
Ricochet	Advantage Plastics	TL-1	7 Mar 2024		Nil
Lo-Ro Water Cable Barrier	Jaybro Group	TL-1 TL-2	7 Mar 2024		Nil

Product Name	System Supplier	Accepted Test Level (MASH)	Austrroads TCU	System Photo	DTP Conditions and Variants
Temporary – Gating Non-Redirective End Treatments					
Absorb M	Jaybro Group	TL-2 TL-3	7 Mar 2024		Refer to policy note on speed limitations
ArmorBuffa	Ingal Civil Products	TL-2 TL-3	7 Mar 2024		Refer to policy note on speed limitations
SLED	Saferoads Pty Ltd	TL-1 TL-2 TL-3	7 Mar 2024		Accepted at 80km/h Refer to policy note on speed limitations
Quash	Safe Direction	TL-3	3 June 2025		Accepted at 80km/h Refer to policy note on speed limitations
Temporary – Redirective Crash Cushion / Impact Attenuator					
QuadGuard M10 CZ	Ingal Civil Products	TL-2 TL-3	7 Mar 2024		Nil
SMART Steel	Hill & Smith Queensland	TL-2 TL-3	7 Mar 2024		Nil
Universal TAU-M	Safe Direction	TL-2 TL-3	1 Jun 2023		Nil
TAU-XR	Safe Direction	TL-3	26 Nov 2024		Nil
Hercules	Safe Direction	TL-2 TL-3	16 Sept 2025		Nil

Product Name	System Supplier	Accepted Test Level (MASH)	Austroads TCU	System Photo	DTP Conditions and Variants
Temporary – Truck Mounted Attenuators (TMA)					
Scorpion II MASH Trailer Attenuator	A1 Roadlines	TL-3	<u>4 Dec 2025</u>		Nil
Scorpion II MASH TMA	A1 Roadlines	TL-2	<u>4 Dec 2025</u>		Nil
		TL-3	<u>4 Dec 2025</u>		Nil
SS180M TMA	Ingal Civil Products	TL-3	<u>4 Dec 2025</u>		Nil
Verdegro Blade	Innov8 Equipment	TL-3	<u>4 Dec 2025</u>		Nil
Silke MASH TMA	J1-LED Intelligent Transport Systems	TL-3	<u>4 Dec 2025</u>		Nil

6. Miscellaneous Products

Product Name	System Supplier	Accepted Test Level or Max. Impact Scenario	Austrroads TCU	System Photo	DTP Conditions and Variants
Pedestrian Protection Bollards - <i>Used to protect pedestrians from errant vehicles in low-speed environments. They should only be considered when a road safety device is not feasible.</i>					
EAB	Impact Absorbing Systems Pty Ltd	1600kg @ 50km/h (Physical)	Nil		Conditionally accepted at NCHRP TL-0 until a MASH equivalent product is accepted. Product must be installed on roads with a posted speed of 50 km/h or less. And must be used in accordance with Supplement to AGRD Part 6 Appendix VC. All installations require a site-specific risk assessment based on the considerations contained in Supplement to AGRD Part 6 Appendix VC. The risk assessment shall be approved by the Superintendent prior to installation of bollard. DTP should be notified of any incidents involving this product.
Omni-Stop Ultra Bollard	Saferoads Pty Ltd	1600kg @ 50km/h (Physical)	Nil		Conditionally accepted at NCHRP TL-0 until a MASH equivalent product is accepted. Product must be installed on roads with a posted speed of 50 km/h or less. And must be used in accordance with RDN 06-16 Appendix A. All installations require a site specific risk assessment and must be approved prior to installation. DTP should be notified of any incidents involving this product.

7. Discontinued and Legacy Products

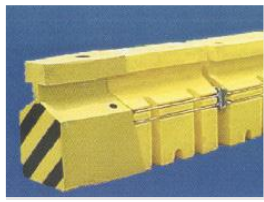
Product Name	System Supplier	Status	Photos	Note
Brifen TL-3 Wire Rope Safety Barrier (3 and 4 rope)	Hill and Smith Queensland	Legacy		Brifen TL-3 configuration discontinued in Victoria.
Brifen Wire Rope Safety Barrier (4 rope) TL4	Hill and Smith Queensland	Legacy		
Flexfence 3 Wire Rope Safety Barrier	Ingal Civil Products	Legacy		Consider upgrading. Additional rope and strengthening plate may be retrofitted.
Sentryline II 3 Wire Rope Safety Barrier	Safe Direction	Legacy		Consider upgrading. Additional rope may be retrofitted.
Gibraltar 3 Wire Rope Safety Barrier	Tranex Group	Legacy		
Thriebeam G9	Public Domain System	Legacy		Assigned Legacy status in October 2014
T-39 Thriebeam	Ingal Civil Products	Legacy		Assigned Legacy status in April 2018

Product Name	System Supplier	Status	Photos	Note
IronMan Median Gate	Saferoads Pty Ltd	Legacy		
Sentryline II Terminal End	Safe Direction	Legacy		Consider upgrading to Sentryline III (non-release) terminal when the terminal is in close proximity to the traffic lane.
Flexfence Standard Wire Rope Terminal	Ingal Civil Products	Legacy		Must replace with Flexfence TL-3 terminal following major impact or within limit of works
Gibraltar End Terminal	Tranex Group	Legacy		
Brifen Wire Rope Terminal	Hill and Smith Queensland	Legacy		
BCTA (Approach Breakaway Cable Terminal)	Public Domain System	Legacy		Must replace with "Accepted" G.R.E.A.T following impact or within limit of works
BCTB (Departure Breakaway Cable Terminal)	Public Domain System	Legacy		Must replace with "Accepted" G.R.E.A.T or Trailing Terminal following impact or within limit of works
MELT (Modified Eccentric Loader Terminal)	Public Domain System & proprietary versions	Legacy		Must replace with "Accepted" G.R.E.A.T following impact or within limit of works

Product Name	System Supplier	Status	Photos	Note
SKT350 (Sequential Kinking Terminal)	Safe Direction	Legacy		
FLEAT350 (Flared Energy Absorbing Terminal)	Safe Direction	Legacy		
SKT-SP	Safe Direction	Legacy		
FLEAT-SP	Safe Direction	Legacy		
X-Tension Terminal End	Safe Direction	Legacy		
X-Tension Median Terminal	Safe Direction	Legacy		Refer X-Tension Terminal End Detail Sheet Conditionally accepted at NCHRP TL-3 until a MASH equivalent product is accepted.
TREND 350 End Terminal	Ingal Civil Products	Legacy		
ET 2000 Plus	Ingal Civil Products	Legacy		
Fishtail	Public Domain System	Not accepted		This treatment does not anchor the system and must be replaced with an accepted terminal

Product Name	System Supplier	Status	Photos	Note
Bullnose	Public Domain System	Not accepted		This treatment has not been accepted by DTP
BrakeMaster 350A	Ingal Civil Products	Legacy		Replacement parts may be difficult to obtain, replace with "Accepted" crash cushion following major impact
Tau-II	Safe Direction	Legacy		
Tracc	Ingal Civil Products	Legacy		
QuadGuard	Ingal Civil Products	Legacy		
Rubber Crash Cushion	Saferoads Pty Ltd	Legacy		Replacement parts may be difficult to obtain, replace with "Accepted" crash cushion following major impact
OmniStop Terminal	Saferoads Pty Ltd	Legacy		Consider replacing with "Accepted" G.R.E.A.T following major impact
IronMan Suite of Barriers (unballasted)	Saferoads Pty Ltd	Legacy		NCHRP TL-1 NCHRP TL-2 IronMan Suite of Barriers Sheet provided for reference only
T-LOK 350 F-TYPE	Saferoads Pty Ltd	Legacy		NCHRP TL-2 T-LOK 350 Detail Sheet provided for reference

Product Name	System Supplier	Status	Photos	Note
Energite III Sand Barrel System	Ingal Civil Products	Not Accepted		This treatment has not been accepted by DTP
TRITON Barrier	Ingal Civil Products	Not Accepted		Phased Out - Effective 22 October 2014
Biker Mate Crash Cushion	Highway Care International	Legacy		Product is no longer supported by the System Supplier
Flexfence Wire Rope Safety Barrier (4 rope)	Ingal Civil Products	Legacy		Product was conditionally accepted at MASH TL-3 with a 3.0m working width and deflection, until 31 December 2020. Refer Flexfence Detail Sheet (Jan 2020)
Sentryline II Wire Rope Safety Barrier (4 rope)	Safe Direction	Legacy		Product was conditionally accepted at MASH TL-3 with a 3.0m working width and deflection, until 31 December 2020. Refer Sentryline II Detail Sheet (Mar 2020)
Flexfence TL3 End Terminal	Ingal Civil Products	Legacy		Product was conditionally accepted at MASH TL-3 until 31 December 2020
Sentryline III Terminal End	Safe Direction	Legacy		Product was conditionally accepted at MASH TL-3 until 31 December 2020
JJ Hooks Concrete Safety Barrier	Australian Road Barriers	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-3 (Speed restricted)

Product Name	System Supplier	Status	Photos	Note
ArmorZone	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2
Absorb 350 Crash Cushion	Jaybro Group	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 Speed limited as per Section 3.1
Triton CET (Concrete End Terminal)	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 Speed limited as per Section 3.1
QuadGuard CZ	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2 NCHRP TL-3
Universal TAU-II	Safe Direction	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2 NCHRP TL-3
Vorteq	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-3
SafeStop (various)	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-3
MPS-350	Ingal Civil Products	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-3

Product Name	System Supplier	Status	Photos	Note
U-MAD (W.A.S.P)	Safe Direction	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2 NCHRP TL-3
Scorpion Trailer Attenuator	A1 Roadlines	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2 NCHRP TL-3
Scorpion Truck Mounted Attenuator	A1 Roadlines	Legacy		NCHRP350 temporary safety barrier products given legacy status since 31 December 2021 NCHRP TL-2 NCHRP TL-3
Stuer-Egghe 'Julietta'	J1-LED Intelligent Transport Systems	Phase out		NCHRP350 temporary safety barrier product given phase out status since 31 December 2021 NCHRP TL-3
Motorcycle Friendly (MCF) Post Cushion	RPS Industries	Legacy		Nil
Energy Absorbing Pole/Tree Buffer	Impact Absorbing Systems Pty Ltd	Legacy		As of June 2025, this product has been classified as legacy due to its limited usage and the availability of alternate MASH equivalent products.

8. Register of System Suppliers

This list has been provided to help users contact the System Supplier. This list is not exhaustive and may become outdated.

Supplier	Contact Details
A1 Roadlines Pty Ltd	89 Rushdale Street, Knoxfield VIC 3180 Ph: (03) 9765 9400 www.a1roadlines.com.au Contact: Janine Bartholomew Email: sales@a1roadlines.com.au
Australian Road Barriers	RMB H535, Old Creswick Rd, Ballarat, VIC 3352 Ph: 1800 003 826 Fax: (03) 5339 9273 www.roadbarriers.com.au Contact: Ben Sexton Email: ben@roadbarriers.com.au
Advantage Plastics	PO Box 410, 254 Easterbrook Road, RD1 Kaiapoi, 7691, NZ Ph: 0800 668 534 https://www.advantageplastics.co.nz/ Contact: David Hickmott Email: david@adplasnz.com
Ambient Technologies Pty Ltd	Address: 24 Eakins Crescent, Geraldton, Western Australia 6530 Ph: 0447777765 Website: KSI Global Australia Pty Ltd – Innovative global road safety solutions. Contact: Mr John Wheatland Email: weaties@midwesttraffic.com.au
Highway Care International	The Highlands, Detling, Maidstone, Kent, ME14 3HT, United Kingdom Ph: +44 (0) 344 840 0088 Ph: +44 (0) 7736 491571 www.highwaycare.com Contact: ollie.pulling@highwaycare.com Email: info@highwaycare.com
Hill & Smith - Australia	U6 170 Burnside Rd Stapylton, QLD 4208 Ph: 1300 277 683 www.hsroads.com.au Contact: Warwick Weeks Email: sales@hsroads.com.au
Impact Absorbing Systems Pty Ltd	Level 1, 480 Collins Street, MELBOURNE 3000 Phone: 1300 033 333 www.impactabsorbing.com.au Email: info@impactabsorbing.com.au
Ingal Civil Products	35-37 Lakeside Drive, Broadmeadows, VIC 3047 Ph: 03 9358 4100 Fax: 03 9358 4110 www.ingalcivil.com.au

	Contact: Ilir Thaqi Email: ithaqi@ingalcivil.com.au
Innov8 Equipment Pty Ltd	Email: sales@innov8equipment.com.au Ph: 1300 071 007
J1-LED Intelligent Transport Systems	20 Graham Daff Boulevard Braeside VIC 3195 Ph: (07) 3807 6272 Mob: 0411 422 696 www.j1led.com Contact: Nathaniel Trieger E-mail: Nat@j1led.com
Jaybro Group	Building A, 1-7 Cyanamid Street, Laverton North, VIC 3026 Ph: 1300 885 364 Ph: 0406 638 792 www.jaybro.com.au/ Contact: Ben Lorne Email: ben.lorne@jaybro.com.au
Lindsay Transport Solutions	13-17 Kimberley Court, Toowoomba, QLD, 4350 Ph: +61(7) 4613 5000 https://www.lindsay.com/apac/en/
National Plastic Group	5 Christensen Road, Staplyton, QLD 4207 Ph: 07 3807 0055 Fax: 07 3807 2315 www.nationalplasticsgroup.com.au Contact: Nina Adcock Email: nina@nationalplastics.com.au
Roadside Services & Solutions	2A, 841 Mountain Highway, Bayswater VIC 3153 Ph: 1300 022 222 https://www.roadideservices.net.au
Safe Barriers Pty Ltd	Suite 54, 29 Smith Street, Parramatta, NSW 2150 Ph: 1800 169 799 https://www.safebarriers.com/ Contact: David Moule Email: david.moule@safebarriers.com
Saferoads	22 Commercial Drive, Pakenham, VIC 3810 Ph: 1800 060 072 Fax: 1800 060 673 www.saferoads.com.au Contact: Casey McMaster Email: casey.mcmaster@saferoads.com.au
Safe Direction	69 Metrolink Circuit, Campbellfield, Vic, 3061 Ph: 1300 063 220 www.safedirection.com.au Contact: James Foden Email: JamesF@safedirection.com.au Contact: Terry Colquhoun Email: terrycol@safedirection.com.au
Traffic Tech	Level 35, International Tower One 100 Barangaroo Ave, Sydney, NSW 2000, Australia

	Postal Address: PO Box 6485, Rouse Hill, NSW 2155 Contact: Mandar Shivalkar Ph: 02 8114 4453 Ph: 0455 887 323 www.traffictechits.com Email: salesap@traffictechits.com mandar.shivalkar@traffictech.com.au
Valmont Highway International Pty Ltd	57-65 Airds Road, Minto, NSW 2566 Ph: 1800 251 420 Email: info@ValmontHighway.com https://www.valmonthighway.com/

9. References

- Austroads Guide to Road Design: Part 6 - Roadside Design, Safety and Barriers
- Austroads Technical Conditions of Use (TCU)
- DTP Detail Sheets
- DTP Road Design Notes
- DTP Supplement to AGRD: Part 6 – Section 6.0: Road Safety Barriers
- DTP Technical Drawings and Specification Clauses
- Product Installation and Maintenance Manuals.
- WRSB Maintenance Guidelines (2019) – DTP internal document.

10. Contact Details

Engineering Standards

Assets and Engineering, Department of Transport and Planning

Email: StandardsManagementRD@transport.vic.gov.au

Appendix A – Revision History Notes

Version	Date	Clause	Description of Change
31	February 2026	Various	See below
<u>New products:</u> - Safe Direction – GMET Terminal – Permanent – Steel – accepted to MASH TL-3. - Ingal Civil Products – 4F-T Terminal – Permanent – Steel – accepted to MASH TL-3. - Safe Direction – Ramshield Median (Back-to-Back) Safety Barrier – Permanent – Steel – accepted to MASH TL-3. <u>New variants:</u> - Ingal Civil Products – Ingal RBT (Rigid Barrier Transition) – Permanent – Steel – Baseplate Post. - Safe Direction – Ramshield Transition – Permanent – Steel – Attachment of Blocking Pieces. - Rebloc GmbH – Rebloc 80SAH_12 – Temporary – Concrete – Connection to Rebloc 80SAH_12_8B. - Rebloc GmbH – Rebloc 80SAH_12_8B – Temporary – Concrete – Connection to Rebloc 80SAH_12. - Safe Direction – Ramshield Low Deflection – Permanent – Steel – 1 metre post spacing. - Ingal Civil Products – Ezy-Guard 4 – Permanent – Steel – Connection to 4F-T Terminal. - Ingal Civil Products – Ezy-Guard High Containment – Permanent – Steel – Connection to 4F-T Terminal. - Ingal Civil Products – Ezy-Guard LDS – Permanent – Steel – Connection to 4F-T Terminal. <u>Modified TCUs:</u> - Safe Direction – Hercules Crash Cushion – Permanent and Temporary – Updated Pavement Table. - Safe Direction – CrocGuard Safety Barrier – Permanent – Additional System Conditions. - A1 Roadlines Pty Ltd – MASH Scorpion II TL-2 TMA – Temporary – Updated Crashworthiness Assessment Template. - A1 Roadlines Pty Ltd – MASH Scorpion II TL-3 TMA – Temporary – Updated Crashworthiness Assessment Template. - A1 Roadlines Pty Ltd – MASH Scorpion II TL-3 Trailer Attenuator – Temporary – Updated Crashworthiness Assessment Template. - J1-LED Intelligent Transport Systems Pty Ltd – Silke MASH TMA – Temporary – Updated Crashworthiness Assessment Template. - Ingal Civil Products – SS180M TMA – Temporary – Updated Crashworthiness Assessment Template. - Innov8 Equipment – Verdegro Blade TMA – Temporary – Updated Crashworthiness Assessment Template. <u>Editorial:</u> - The following products were renamed as follows on the RDN: “Absorb M Crash Cushion” to “Absorb M”. “ArmorBuffa Plastic Water Filled Crash Cushion” to “ArmorBuffa”. “SLED Plastic Water Filled End Terminal” to “SLED”. “Quash Crash Cushion” to “Quash”. “SMART Steel Crash Cushion” to “SMART Steel”. “Tau-XR Crash Cushion” to “Tau-XR”.			

Version	Date	Clause	Description of Change
30	July 2025	Various	See below
<u>New products:</u> - Safe Direction – Tall42 Movable Concrete Barrier – Permanent and Temporary – Concrete – accepted to MASH TL-3 and TL-4. - Safe Direction – Quash Crash Cushion – Temporary – Plastic – accepted to MASH TL-3 <u>New variants:</u> - Safe Direction – Ramshield High Containment Steel Safety Barrier – Permanent – Steel – Recorded minimum install length updated to 48m as tested. - Jaybro – DB80 K150 Concrete Safety Barrier – Temporary – Concrete – Zero Debris Concrete Units & Connection to Tau-XR Crash Cushion. - Jaybro – DB80 T150S Concrete Safety Barrier – Temporary – Concrete – Zero Debris Concrete Units & Connection to Tau-XR Crash Cushion. - Jaybro – DB80A T150S Concrete Safety Barrier – Temporary – Concrete – Zero Debris Concrete Units & Connection to Tau-XR Crash Cushion. - Highway Care International – Highway-Guard LDS Safety Barrier – Permanent and Temporary – Steel – Addition of notes in system conditions (consistently added to all LDS temporary products) as part of the ASBAP review of the suitability of LDS systems at TL4. - Jaybro – SafeZone LDS Safety Barrier – Permanent and Temporary – Steel – Addition of notes in system conditions (consistently added to all LDS temporary products) as part of the ASBAP review of the suitability of LDS systems at TL4. <u>Product classified as legacy:</u> - Energy Absorbing Pole/Tree Buffer: As of June 2025, this product has been classified as legacy due to its limited usage and the availability of alternate MASH equivalent products. <u>Editorial:</u> - The Quick-change Barrier System is currently listed solely as a permanent product. However, its TCU specifies that it is suitable for both permanent and temporary applications. To reflect this, the barrier was also listed as a temporary product. - Contact details for Valmont Highway International Pty Ltd has been included. <u>Update to RAPTOR Barrier:</u> The RAPTOR barrier was tested in accordance with MASH and received a TL-1 rating in 2021. The original product detail sheet has since been superseded by the corresponding ASBAP TCU. Guidance on the appropriate use of the RAPTOR barrier is provided in Section 3.8.			

Version	Date	Clause	Description of Change
29	April 2025	Various	See below
<u>New variants:</u> - Ingal Civil Products – ET-SS Terminal – Permanent – Steel – Anchor Post Concrete Curing Note. - Safe Direction – Ramshield Low Deflection Safety Barrier – Permanent – Steel – Baseplate Installation. - Jaybro – SafeZone Safety Barrier – Permanent and Temporary – Steel – Updated Foundation Pavement Conditions. - Jaybro – SafeZone LDS Safety Barrier – Permanent and Temporary – Steel – Updated Foundation Pavement Conditions. - Jaybro – SafeZone MDS Safety Barrier – Permanent and Temporary – Steel – Updated Foundation Pavement Conditions.			

Version	Date	Clause	Description of Change
<u>Update to Section 2.7.1:</u> The first paragraph was reworded to specify barrier types covered under ASHTAS, these include “Wire Rope Safety Barrier, Guard Fence Barrier, and associated WRSB or Guard Fence terminal installations”. <u>Section 3.7: Use of Surface Mount Variants for W-beam barriers:</u> This section was introduced to provide guidance on use of surface mounts variants. Previously these were listed as conditions on the relevant products. <u>Update to guidance for LDS temporary safety barrier:</u> The note on LDS temporary safety barrier was updated to “While LDS is recognised as a MASH TL-4 variant, DTP notes the undesirable vehicle roll-over, which is a fundamental limitation of the barrier height & stiffness. DTP recommends all users adopt the standard variant for TL-4 applications.”			

Appendix B – Previous Publications

Version	Month Published	Description
28.0	February 2025	Update to products and variants in line with outcomes from ASBAP meetings. Please refer to the revision history section of the relevant version of RDN 06-04 for further description of changes.
27.0	December 2024	
26.0	June 2024	
25.0	November 2023	
24.0	July 2023	
23.0	May 2023	
22.0	December 2022	
21.0	April 2022	
20.0	January 2022	
19.0	September 2021	
18.0	June 2021	
17.0	March 2021	
16.0	December 2020	
15.0	March 2020	
N	November 2019	
M	May 2019	
L	June 2018	
K	October 2017	
J	October 2016	
A - I	Dates unavailable. Created on request	

Department of Transport and Planning 2026

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