MASH TL4 Compliant Roadside Safety Barrier


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## INTRODUCTION

Introducing Ezy-Guard High Containment, a member of the Ezy-Guard family, the next generation steel guardrail barrier providing superior motorist safety with a tested containment of MASH Test Level 4.
Ezy-Guard HC is crash tested to the latest performance standard distinguishing it from all existing public domain guardrail barrier systems in Australia.

The Z-post profile shields post edges from vulnerable road users and provides sectional strength when driving through difficult conditions.
An Ezy-HC-Carriage is used to secure the Thrie-beam rails to the posts eliminating the requirement for blocking/offset pieces and rail stiffening plates. This unique connection provides a soft ride-down for the occupants and smooth vehicle containment and redirection.

## CRASH TEST DETAILS

Ezy-Guard HC has been fully crash tested and evaluated according to the specifications for Test Level 4 (TL4) of the AASHTO Manual for Assessing Safety Hardware (MASH). MASH supersedes NCHRP-350. In the revised standard AS/NZS 3845.1:2015, MASH has been nominated as the basis of testing procedures for road safety barrier systems.
The MASH TL4 crash test matrix requires the following impacts;

- $1,100 \mathrm{~kg}$ car travelling at $100 \mathrm{~km} / \mathrm{h}$ and 25 degrees.
- 2,270kg pick-up travelling at $100 \mathrm{~km} / \mathrm{h}$ and 25 degrees.
- 10,000kg truck travelling at $90 \mathrm{~km} / \mathrm{h}$ and 15 degrees.

The system has also been crash tested to NCHRP-350 TL4 where the test vehicle is an $8,000 \mathrm{~kg}$ truck at $80 \mathrm{~km} / \mathrm{h}$. This test recorded a deflection of 1.0 m .

## ADVANTAGES

Safer
High Performance

- Fully compliant to MASHTL4.
- Demonstrated containment and re-direction of 10,000kg truck travelling at $90 \mathrm{~km} / \mathrm{h}$
Lighter
Fewer Parts
Rapid Installation
- Reduced freight costs for your install
- No blocking pieces or rail stiffener plates
- Ezy-Guard HC installation can be up to twice as fast to install than conventional guardrail barriers and no concrete is required (unlike cable barrier systems)
Cost Savings
- Fewer components to purchase, savings on freight costs and faster to install
Narrow Width
A system width of just 245 mm conserves valuable formation width


## Consideration for Vulnerable

Road Users

- The supporting Z-posts contain smooth, rounded post edges and corners. In addition, the innovative design of Ezy-Guard HC shields the top of the supporting Z-posts by positioning the top of the rail above the posts.
This eliminates a dangerous snag point and is a significant safety benefit compared to existing safety barrier designs.


## Specifications

| Ezy-Guard HC Z-Post Length: | $2,000 \mathrm{~mm}$ |
| :--- | :--- |
| Ezy-Guard HC Z-Post Mass: | 19.5 kg |
| Ezy-Guard HC System Mass: | 28.8 kg per metre |
| Rail Height Above Ground: | 980 mm |
| Z-Post Height Above Ground: | 970 mm |
| Post Spacing: | $2,000 \mathrm{~mm}$ |
| Ezy-Guard HC System Width: | 245 mm |
| MASH TL3 Crash Test Deflection: | 1.16 m |
| MASH TL4 Crash Test Deflection: | 1.20 m |



Crash Test Performance Level


ETY-GUARD
High-Containment
Roadside Safety Barrier



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## For more information

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