

EZY-GUARD™ | NCHRP 350 TL-3 / TL-4 & MASH TL-3 SAFETY BARRIER

- **200MM WIDTH IS SIGNIFICANTLY NARROWER THAN TRADITIONAL GUARDRAILS**
- **FULLY COMPLIANT TO MASH TL-3 & NCHRP-350 TL-3 / TL-4**
- **CONTAINMENT TESTING RELEVANT TO TYPICAL MIDDLE EASTERN VEHICLES**
- **RAPID INSTALLATION – LESS COMPONENTS & Z-POST EMBEDMENT DEPTH 873MM**

Ezy-Guard™ guardrail crash barrier imposes lower forces to an impacting vehicle than traditional guardrail crash barriers. As the barrier deflects, the vehicle impact energy is dissipated in a way that reduces occupant risk. The lightweight, ductile Z-posts and clever sliding carriage allow the W-beam to effectively detach and provide a forgiving impact, reducing ride-down deceleration forces and minimising vehicle damage. The W-beam remains properly engaged with the vehicle, even when detached from the Z-posts.



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Using up to 40% less steel than conventional steel guardrail barriers, Ezy-Guard™ is designed to provide stable vehicle containment and re-direction and minimise occupant risk. With a good ASI rating of A, occupants are less likely to suffer injury in a collision.

The Z-post profile shields post edges from vulnerable road users and provides sectional strength when driving through difficult ground conditions.

The EZY-Carriage™ is used to secure the W-beam rails to the Z-posts and eliminate the requirement for blocking pieces and rail stiffening plates that cause injuries due to debris scatter.

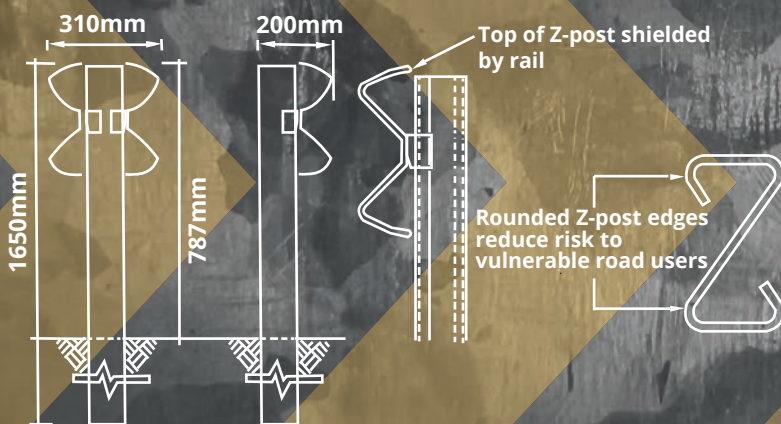
Because the EZY-Carriage™ slides on the Z-post, the W-beam stays correctly engaged with any impacting vehicles, containing larger vehicles like SUV's.

The supporting Z-posts have smooth, rounded post edges and

corners. In addition, the revolutionary design of Ezy-Guard™ shields the top of the support 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.

This system is tested against the new American MASH Specification, which is more applicable for the vehicles likely to be found within the middle East.

PHYSICAL SPECIFICATIONS



EZY-Guard™ W-Beam GuardRail

Post Length	1650mm
Post Mass	12.5kg
System Mass	18.6kg per metre
Rail Height Above Ground	787mm
Post Spacing	2,000mm
System Width	200mm
Z-post Height Above Ground	777mm

FEATURES AND BENEFITS

- » Uses 40% less steel than conventional steel guardrail barriers, improving material and freighting costs as well as manual handling risk.
- » Fewer components make the system faster to install and allows a reduced maintenance inventory.
- » The best ASI rating (A) - as a passenger, you are less likely to suffer injury due to a softer impact.
- » Tested against the American MASH Specification, the testing is more applicable for the larger SUV vehicles found within the Middle East. European testing does not give you this reassurance.
- » Clever system design allows the W-beam to operate and stay consistently engaged with the impacting vehicle. The SUV is less likely to ride over the barrier.
- » The EZY-Carriage™ eliminates the traditional use of large blocking pieces and rail stiffener plates that could potentially cause injury due to debris scatter post collision.
- » Fully compliant to MASH TL-3 & NCHRP 350 TL-4, giving the designer the confidence to use the barrier and reduce risk.

SPECIFICATIONS

- » No blockout or backing piece is required between guardrail panel and steel post
- » Tested to TL-3 MASH
- » Dynamic Deflection is 1.65m
- » All components are hot dip galvanized
- » Standard post spacing at TL-3 and is 2.0m
- » Length of Need (LoN) is contained in the terminal ends, barrier in between is fully re-directive
- » MASH TL-3 Deflection is 1.65m
- » NCHRP 350 TL-4 Deflection is 1.53m



HIGHWAY CARE

+44 (0) 1622 734215 info@highwaycare.com

www.highwaycare.com