VALTIR

ArmorZone® TL-2

MASH Addendum for Curved Installations

By Valmont Highway

PRODUCT MANUAL

PN 120069

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1.0 INTRODUCTION TO CURVED BARRIER INSTALLATION

ArmorZone™ barrier made up of plastic units that are joined together using a steel pin connector and filled with water. The resulting barrier provides positive work zone barrier protection to temporary construction sites and other miscellaneous roadside activities. ArmorZone™ has been designed and tested to meet the evaluation criteria of MASH Test Level 2 (TL-2) for a longitudinal barrier.

When installed 'straight' (units connected to each other with a 'flush fit' and steel pin connector correctly positioned in both vertical holes) the barrier is capable of stopping, containing or re-directing an errant vehicle in a safe manner under MASH TL-2 impact conditions.

The unique ArmorZone™ polyethylene composition, profile design and steel pin connector allow the barrier to be installed straight or with a radius as low as 28m.

ArmorZone™ can also be installed to a much lower radius if required.

Note: To install ArmorZone™ at a lower radius than 28m the connection between the units will not be as tested. The 'flush fit' connection used for a standard installation, which was crash tested and subsequently MASH TL-2 accepted, can not be achieved.

THE METHODS SHOWN IN THIS ADDENDUM TO CURVE ARMORZONE™ ARE NOT CRASH TESTED INSTALLATIONS AND MAY JEOPARDISE THE PERFORMANCE OF THE BARRIER.

However, the information supplied in the addendum may be of practical use under special circumstance and also aid with practical barrier design when work zones are not straight forward.

Please read the following ArmorZone™ curving techniques keeping in mind that these alternative installation methods will result in a non-approved barrier installation.

2.0 CURVED BARRIER INSTALLATION INSTRUCTIONS

CONFIGURATION #1

Slide the units into position so that the lugs just overlap and last hole only on each unit line up. Then insert the steel pin connector so it populates only 2 of the 3 vertical holes that exist (shown in Figure 1 & 2).

It is recommended that the units are positioned at the desired curvature before filling the units with water to avoid excessive wear on the barrier.

Fill each unit fully with water and check that there are no leaks.

Using this technique it is possible to achieve a minimum radius of 5.6m if required (shown in Figure 3).

WHEN ARRANGED IN THIS CONFIGURATION THE PERFORMANCE OF THE BARRIER MAY NOT BE THE SAME AS TESTED.

Figure 1

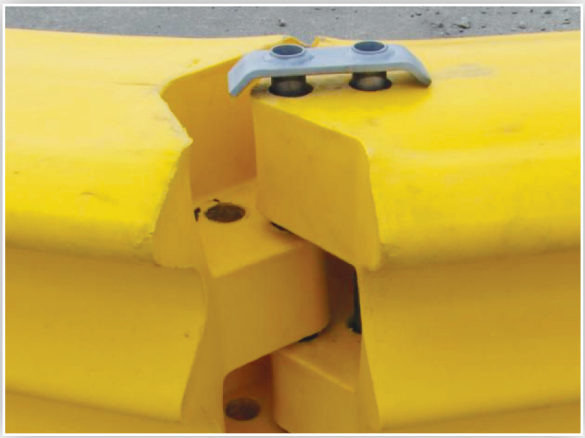

Figure 2

Figure 3

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A TIER ABOVE

For more complete information on Valtir products and services, visit us on the web at www.valtir.com. Materials and specifications are subject to change without notice. Please contact Valtir to confirm that you are referring to the most current instructions.

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