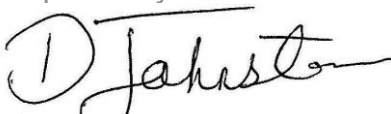


**R0256 TMP EVO-N Bollard****Test Report – Commercial in Confidence**

**Test Laboratory** HORIBA MIRA Ltd  
**Date of Report** 23<sup>rd</sup> June 2016  
**Client** Traffic Management Products Ltd  
**Test Item** EVO-N Bollard  
**Date of Test** 18th May 2016  
**Test Number** R0256  
**Report Number** 1211762-001-A-02  
**Test Type** Reflective Bollard impact to  
EN 12767-2007  
**Number of Pages** 30  
**Test Report Language** English

Prepared By:



Dave Johnstone  
Senior Engineer

Approved By:



Alistair Crooks  
Head of High Energy Facility

Date: June 23<sup>rd</sup> 2016

© HORIBA MIRA Ltd 2016. All rights reserved, subject to client contract. Information contained in this document may not be published in any form of advertising or other matter without prior agreement of the CEO of HORIBA MIRA.  
HORIBA MIRA Ltd. Registered Office: Watling Street · Nuneaton · Warwickshire · CV10 0TU · England · <http://www.horiba-mira.com>  
Tel: +44 (0)24 7635 5000 · Fax: +44 (0)24 7635 8000 Registered in England No 9626352 · VAT Registration GB 100 1464 84

**Tests marked "Not UKAS Accredited" in this report are not included in the UKAS Accreditation Schedule for this laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation**

Full Independent Report available if required

## 6 Results Summary

The TMP Ltd EVO-N bollard was tested to the requirements of EN12767:2007 achieving a performance class of NE (Non-energy absorbing) and an Occupant Safety Level of 4 rating 1000/NE/4.

## 7 Assessment against BS8442\*

The TMP Ltd EVO-N bollard was also assessed against the requirements of BS8442:2006 and found to comply with the requirements details in 14.3.3 High Impact Resistance, as summarised below.

No Portion of the RSRB>25g shall become detached	No Part Detached
The RSRB shall return to >10% of its height within 15 minutes	Rebounded to 100% in 0.38s

## 8 General statements

The test results in this report relate only to the RSRB tested.

This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Opinions, interpretations and meteorological information included in this report are not part of the UKAS accreditation and are marked thus \*.