

# **MIRA** Confidential Report

Title

Vehicle Impact into a Solaboll Solar  
Powered Self Righting Traffic Bollard

Customer

Pudsey Diamond Engineering Ltd

MIRA Limited

REPORT No: 1028296 – J0113 – Rev A

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## 5.8 Assessment Against BS8442\*

The Pudsey Engineering Ltd Solaboll Flexible Solar Powered Self Righting Traffic 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. All 6 LEDs were illuminated post-test.

No portion of the RSRB>25g shall become detached	A piece of circuit board with mass 37g became detached
The RSRB shall return to >10% of its height within 15mins	Rebounded to 98.2% of height in 1.05s

## 6 Conclusion

The Solaboll Solar Powered Self Righting Traffic Bollard was tested to the requirements of EN12767:2007 at the Nominated speed class of 70km/h. This test, taken in conjunction with the nominated speed class test MIRA-10-1028834-K0004, conducted at 35km/h resulted in an achieved performance class of NE (Non-energy absorbing) and an Occupant Safety Level of 3 rating 70/NE/3.

## 7 List of Appendices

Appendix 1: Technical Drawings of Test Article and Installation  
 Appendix 2: Still Photographs at Impact Point  
 Appendix 3: Vehicle Calibration Test Details  
 Appendix 4: Test Vehicle Properties and Information  
 Appendix 5: Calibration Information  
 Appendix 6 Plots of Transducer Output and Severity Indices

## 8 General Statements

The test results in this report relate only to the items as tested. Other impact conditions may give different results. This report shall not be reproduced other than in full, except with the prior written permission of the issuing laboratory. Opinions, interpretations and meteorological information included in this report that are not part of the UKAS accreditation and are marked thus \*.