

# UNITED KINGDOM DEFLECTOGRAPH ACCREDITATION TRIAL TEST REPORT

Report No: 0119/ACZ 3268 Issue 7

**DEFLECTOGRAPH  
REGISTRATION NUMBER: ACZ 3268  
TRL Reference No: 15**

Operated by **DoE Northern  
Ireland** of **Road Services  
Laboratory  
17 Ballynahonemore  
Road  
Armagh**

has participated in a United Kingdom Deflectograph Accreditation trial on **2 March 2016** at MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 0TU under the supervision of TRL.

The above machine has been tested against the accreditation requirements as provided in "Accreditation and Quality Assurance of Deflectograph Survey Devices" document<sup>1</sup> dated August 2014. Its performance in each test is summarised in the Annex to this test report.

This machine has met the mandatory criteria for carrying out surveys on the Highways England Strategic Road Network. Its performance in each test is summarised in the Annex to this test report.

This certificate supersedes any previous certificates issued by TRL.

Signed on 16 March 2016  
for and on behalf of TRL Limited



Dr Alex Wright

Valid From:  
2 March 2016

Date of expiry:  
2 March 2017

<sup>1</sup>This document is available from TRL, please contact [accreditation&QA@trl.co.uk](mailto:accreditation&QA@trl.co.uk) for further details.

## Test Report Annex

Report No: **0119 Issue 7**

The following parameters must be passed to successfully meet the requirements of the accreditation trial.

Tested Parameter	Performance
<b>Axle Weight Limits:</b>	
Front Axle (recommended weight 4275-4725kg):	<b>4940kg</b>
Nearside Rear Wheel (permitted weight 2857-3493kg):	<b>3420kg</b>
Offside Rear Wheel(permitted weight 2857-3493kg):	<b>3340kg</b>
<b>Main Deflection Tests:</b>	
Standard Deviation from the fleet mean.	<b>Pass</b>
<b>* Comments:</b>	
Outside of the recommended weight range for the Front Axle weight. Previous research has found no measurable effect of exceeding the front axle limits on deflection measurements and is therefore deemed acceptable.	

The following parameters were also tested. However, they are not currently a mandatory requirement of the accreditation trial.

Parameter	Performance
<p><b>Temperature Measurement:</b>                      The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. Performance is assessed as follows:</p> <p>HIGH: 80% of measurements within 1°C of reference                      MEDIUM: 50% of measurements within 1°C of reference                      LOW: 15% of measurements within 1°C of reference                      Very Low: Otherwise</p>	
Pavement Temperature Measurement	<b>High</b>
<p><b>Comments:</b></p>	
<p><b>Distance Measurement:</b>                      The machine is required to measure the length of a reference section of the pavement. Performance is assessed as follows:</p> <p>HIGH: 80% of measurements within 5m of reference                      MEDIUM: 80% of measurements within 7.5m of reference                      LOW: 80% of measurements within 10m of reference                      Very Low: Otherwise</p>	
Distance Measurement	<b>High</b>
<p><b>Comments:</b></p>	