UNITED KINGDOM DEFLECTOGRAPH ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE

Report No: 0119/ACZ 3268 Issue 11

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 **11 March 2020** at MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 OTU 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 dated July 2016.

This machine has sucessfully 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 24 March 2020 for and on behalf of TRL Limited

Patrick Werro

Valid From: 11 March 2020 Date of expiry: 11 April 2021

¹This document is available from TRL or from the following website http://www.ukroadsliaisongroup.org/en/asset-condition/road-condition-information/data-collection/deflectograph/index.cfm,

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Test Report Annex

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

Tested Parameter	Performance	
Axle Weight Limits:		
Front Axle (recommended weight 4275-4725kg):	4910kg	
Nearside Rear Wheel (permitted weight 2857-3493kg):	3440kg	
Offside Rear Wheel(permitted weight 2857-3493kg):	3315kg	
Main Deflection Tests:		
Standard Deviation from the fleet mean	Pass	
Distance Measurement:		
Distance Measurement	Pass	
Comments:		
Outside of the weight range for the Front Axle weight. H that exceeding the front axle target by less than 15% do		

measurements. Therefore the performance is deemed acceptable.

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

Paramo	eter	Performance
Temperature Measurement: The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. Some Deflectographs also have air and surface temperature sensors fitted. Performance is assessed as follows:		
HIGH: MEDIUM: LOW: Very Low:	80% of measurements within 1°C of reference 50% of measurements within 1°C of reference 15% of measurements within 1°C of reference Otherwise	
40mm Pavement Temperature Measurement		High
Air Temperature measurement		No Data Supplied
Surface Temperature measurement		No Data Supplied
Comments:		

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