UNITED KINGDOM DEFLECTOGRAPH ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE

Report No: 0124/B195 CFW Issue 11

DEFLECTOGRAPH REGISTRATION NUMBER: B195 CFW TRL Reference No: 14

of

Operated by Lincolnshire County Council Lincs Laboratory, St George's Lane, Riseholme, Lincoln

has participated in a United Kingdom Deflectograph Accreditation trial on **11 March 2020** 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" document¹ 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: 1 Date of expiry: 1

11 March 2020 11 April 2021

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

0124/B195 CFW Issue 11

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):	4730kg	
Nearside Rear Wheel (permitted weight 2857-3493kg): 3200k		
Offside Rear Wheel(permitted weight 2857-3493kg):	3355kg	
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. How that exceeding the front axle target by less than 15% does		

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.

Parameter		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	e Measurement	High
Air Temperature measuremen	t	No Data Supplied
Surface Temperature measure	ment	No Data Supplied
Comments:		

0124/B195 CFW Issue 11