

**UNITED KINGDOM
DYNAMIC PLATE TEST DEVICES
ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE**

Report No: 0171DPT/HeavyDyn Hvy-101A Issue 1

**RINCENT HWD HEAVYDYN
SERIAL NUMBER: HVY-101A
TRL Reference No: 50**

Operated by **SOCOTEC UK**
of **Unit 16 & 17 Oxford Court, Cambridge Road, Granby Industrial Estate,
Weymouth**

has participated in a United Kingdom DPT Accreditation trial on **26 September 2018** 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 Dynamic Plate Test Survey Devices" document¹ dated July 2016.

The performance in each test for this machine is summarised in the Annex to this test report.

This machine **has successfully met** the mandatory criteria for carrying out surveys on the Highways England Strategic Road Network.

This certificate supersedes any previous certificates issued by TRL.

Signed on 18 October 2018 for and on behalf of TRL Limited



Patrick Werro

Valid From: 26 September 2018

Date of expiry: 26 October 2019

¹ This document is available from TRL or from the RCMG website (<http://www.ukroadsliaisongroup.org/en/asset-condition/road-condition-information/data-collection/dynamic-plate-test-devices-dpt/index.cfm>).

Test Report 0171DPT/HeavyDyn Hvy-101A Issue 1 Annex

The following parameters cover the configuration of the DPT device.

Component	Parameter
Load plate type	Solid
Number of weights / buffers per side	10/4
Peak smoothing feature	Enabled

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

Tested Parameter	Performance
Standard deviation of load corrected deflections	Pass
Mean Field Calibration Factor (FCF) for all sensors	Pass
Field Calibration Factor (FCF) for individual sensors	Pass
Mean Standard Deviation of the Deviation Ratio (SDDR) for all sensors	Pass
SDDR for individual sensors	Pass
Distance Travelled	Pass
Comments:	

The following parameters were also tested/reviewed. They are not currently mandatory requirements, however some Network Authorities may also require specific level of performance in some or all of these additional tests.

Tested Parameter	Performance level
OSGR coordinates (Easting and Northing)	Medium
Temperature at Depth	High
Surface temperature	Not Assessed
Air temperature	Low
Comments:	
3-dimensional location referencing data supplied as latitude and longitude. For this assessment the Auditor has completed the transformation to OSGRs. As such the contractor's coordinate transformation to OSGR has not been assessed.	
Device provided surface temperature data, assessment could not be completed because of problems establishing a reference dataset. Air temperatures assessed against fleet average, sensor provided inconsistent results recommended recalibration.	