

ROLLING STRAIGHTEDGE

The Rolling Straightedge simulates a 3m rigid straightedge sliding along the road surface, and consists of a rigid frame supported on rubber-tyred wheels arranged in two parallel rows, with the centres of the wheels in one row opposite the gaps between the two parallel rows of supporting wheels, is free to move such that it detects vertical movements of this wheel which are then transmitted to a pointer and scale, on the instrument head.



The Rolling Straightedge was developed in conjunction with TRL. It is produced as an instrument to assist engineers with construction, quality control and with compliance assessment, of newly laid pavement regularity. The Rolling Straightedge measures depressions on the pavement surface on analogue scale 0-12mm + 0.25mm. The straightedge also has an odometer for accurate determination of distance travelled in units of 1 metre.

The Rolling Straightedge is pushed at 1-2km/h and the number of irregularities, their length and distance from start, are recorded. The national specifications for surface regularity are then compared and the pavement accepted or rejected and or remedial work undertaken.

References

T.S.O. - Highways Agency - Specification for Highway Works. This document details requirement in term of the maximum permissible number of irregularities beneath a Rolling Straightedge.

TRL - Supplementary Report 290 - details the calibration, maintenance and use of the Rolling Straightedge.

Specification

Model number A1141

3 wooden cases, gross weight 112 kgs

1 case @ 111 x 52 x 40 cms

2 cases @ 124x 38 x 41 cms

Maintenance and re-calibration is required at 12 months or 30,000 m intervals. We have UKAS calibration facilities at our factory.

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