Determination of a Characteristic Value of Resilient Modulus and Rate of Deformation for Unbound Granular Pavement Materials

TP183

Except where modified or clarified below, the procedure shall be as described in Austroads AG:PT/T053 – Determination of Permanent Deformation and Resilient Modulus Characteristics of Unbound Granular Materials under drained conditions.

**Scope:**

This procedure determines the characteristic value of resilient modulus and permanent deformation specified in Part R15 of the DPTI master specification.

**Clarification to Clause 5 (b) Sample:**

Oversize material to be discarded from the test specimen shall be that retained on a 26.5mm sieve

**Clarification to Clause 6 Preparation of Test Specimens:**

Static compaction by hydraulic ram in 2 layers is to be adopted. Specimens are compacted to 98% MDD and 80% OMC as determined from AS1289 5.2.1.

## Clarification to Clause 9.2 Selection of stress levels for Resilient Modulus Testing:

A vertical deviator stress of 460kPa and confining pressure of 196kPa shall be used over 50,000 cycles.

## Clarification to Clause 13.2 Permanent Deformation Test:

The average resilient modules at 50kcycles. The average rate of permanent deformation between 20kcycles and 50kcycles.

**Precision**

The uncertainty of measurement has been determined as + x.x% of the tests result, at a confidence limit of 95% with a nominal coverage factor of 2, when calculated in accordance with the accreditation requirements as detailed in AS/ISO 17025.

Technical Services Group

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