

Design & Testing of Bituminous Mixtures

76

BALL PENETRATION TEST (Embedment Allowance for Spray Sealing) Equipment Details & Instructions



Specification

The Hammer has been made to suit the AUSTRROADS Test Method AP-T127-09, i.e.:-

- Drop of 457 +/- 1mm,
- Hammer mass 4.53 +/- 0.02kg
- 19mm Ball

Dimensions

- Total Mass – 7.2kg
- Overall length – 82cm
- Widest dimension – 10.5cm

Features

- Ball is removable and can be inter-changed for penetration elements of differing shapes and sizes
- “Bullseye” bubble for assisting with verticality of Hammer.
- Can be used with digital indicator or direct measurement.



Direct reading

1. Place Hammer on position to be tested.

2. Zero cursor by adjusting fine threaded screw. Lift the hammer the full length and let fall freely

3. Take reading of embedment directly off top of cursor

Alternatively, the Hammer can be lifted by the handle and the embedment depth read as before



Digital Indicator reading.

Readings can also be taken using a Digital Indicator. The indicator is positioned and zeroed prior to dropping the hammer mass.

The Indicator is then removed and the embedment test carried out.

The indicator is replaced and the embedment is digitally displayed.

