



## 4.5kg Clegg Impact Soil Tester

**Product Code: SE10678**

**Pack Quantity: 1**

The 4.5Kg Clegg Impact Soil Tester provides an easy and straightforward means for measuring and controlling soil strength and consolidation levels during trench re-instatement.

The readout is clamped to the guide tube and the displayed reading is viewed from the top during use.

Single button operation design provided for easy use.

### PRODUCT FEATURES

- 4.5Kg Standard Hammer
- Impact Value (IV) readings stored in memory
- Stored data downloadad by Bluetooth
- %CBR Calculated and can be set to displayed by the user
- Software and ancillaries included
- Carry case provided
- Easy to use

### USAGE

The instrument is used to confirm uniform compaction of over wide areas of ground, identifying poorly compacted areas and ineffective rolling of materials.

### TOUGH DESIGN

The Clegg Impact Soil Tester is a very rugged design suitable for prolonged use in damp, dirty and harsh site environments. The readout unit is made from high strength alloy that has been proven to last for decades. The battery compartment, sealed to IP67, is fitted with 2 x AA batteries for typically 12 months operation. The Clegg Impact Soil Tester is a compact and reliable instrument. A wooden Transit & Storage Case is included.

### OPERATING PRINCIPLE

The Tester consists of a 4.5 kg compaction hammer operating within a vertical guide tube. The Hammer falls through the tube when released and strikes the surface under test, decelerating at a rate determined by the stiffness of the material within the region of impact. The readout registers the deceleration in units of Impact Value (IV). The IV is an indication of soil strength.

### CBR MEASUREMENT

Good correlation with results from CBR tests exists. Data from the can be used in a similar manner to results from CBR tests performed in the laboratory and in the field. The display can directly show the %CBR result based upon Dr Clegg's original pioneering work. This feature is simply selected from the PC software provided.



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Data Logging & Bluetooth

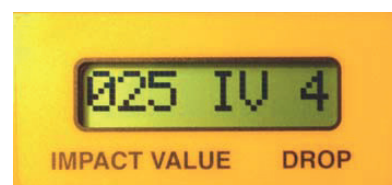
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### HISTORY

The Clegg Test was introduced by British Gas in the UK in 1990 following extensive laboratory and site testing. Since then several thousands of the instrument are now being used throughout the UK and overseas, with operators employing the recommended test routines.

### READOUT UNIT

The Readout Unit displays readings of Impact Value (IV) and also shows the number of times that the hammer has been dropped during each test operation. Example:- readings of 25 IV and drop number 4 are shown on the readout unit in the picture on the right.



Carrying out a test is quick and straightforward. The ground surface is brushed lightly with the foot to remove loose material and the guide tube is placed in position. The digital readout is located on the guide tube, shown above, during testing allowing easy use as there is no need to hold the readout in the hand. The hammer is raised to a height of 450 mm as indicated on the hammer head and then allowed to fall freely. This procedure is repeated four times, the reading achieved on the fourth drop being recorded as the Impact Value. Software selectable Quality Assurance (Q. A.) Readout firmware can advise the user of a failed re-instatement.

Tables of target IV for a range of backfill and subgrade materials are given in the operating manual, enabling the operator to check the compliance of reinstatements with the specification levels.

### SPECIFICATION

Hammer Weight:	4.5kg
Readout Display (alphanumeric):	Vertical display with readout unit clamped to Guide Tube – Easy to view
Readout Range:	Up to 101 Impact Values (IV)
Power Source:	Low power 3V: From two 'AA' Cells, type Alkaline / NiMH / NiCAD located in battery holder at base of readout. Sealed to IP67. 12 Month typical battery life.
Battery Level:	Displayed at switch-on
Power 'On' & Controls:	Single push button. Auto switch off after 5 minutes from last reading
Readout Displaying %CBR:	Software Selectable %CBR display from LCD
Readout Q. A. Firmware:	Software Selectable TREND Algorithm checks inter-IV readings & Readout advises user if surface being tested has failed (Readout displays 'ABORT').
Transit & Storage Case:	Wooden case for added protection in transit
Size & Weight (approx):	71 x 13 x 13 cm. Instrument weight 6.8 Kg. Packed weight in case 12Kg