

STMH1 Mechanical Concrete Test Hammer

For Non Destructive Testing of Concrete & Other Masonry Materials



The **STMH1 Concrete Test Hammer** test is the **quickest, simplest and least expensive method for non destructive evaluation of compressive strength of concrete and other masonry materials**. Also referred to as a mechanical concrete test hammer, swiss hammer & sclerometer, It is most ideally suited for assessment of material uniformity over large areas of structure to delineate the zones or areas of poor quality or deteriorated concrete present in the structures.

It provides a measure of relative material surface hardness and is used extensively for the testing of concrete and rock. The hammer consists of a spring loaded plunger which when released, strikes the surface. During the rebound stroke, the mass moves a pointer providing a reference value on the scale called the rebound number. This number, when converted based on correlation table, gives the compression resistance value in respect of the impact angle.

Conformance to Standards and Regulations :

- IS 13311-2 India
- IS 516 India
- ISO/DIS 8045 International
- EN 12504-2 Europe
- ENV 206 Europe
- BS 1881, part 202 Great Britain

- DIN 1048, part 2 Germany
- ASTM C 805 USA
- ASTM D 5873 (Rock) USA
- NFP 18-417 France
- B 15-225 Belgium
- JGJ/ T 23-2001 China
- JJG 817-1993 China.

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The **N type** mechanical concrete test hammer should be used for concrete substrates of thickness 100mm or more.

The abrasive stone provided as part of supply should be used to smoothen the surface.

Each test location should be tested with 10 impacts in a grid or as per standard followed (minimum 9 values) spaced 25mm apart or higher.

The average value of the R rebound value should be noted & correlated using conversion curve (Max & Min values should be written 80% of range of test results).

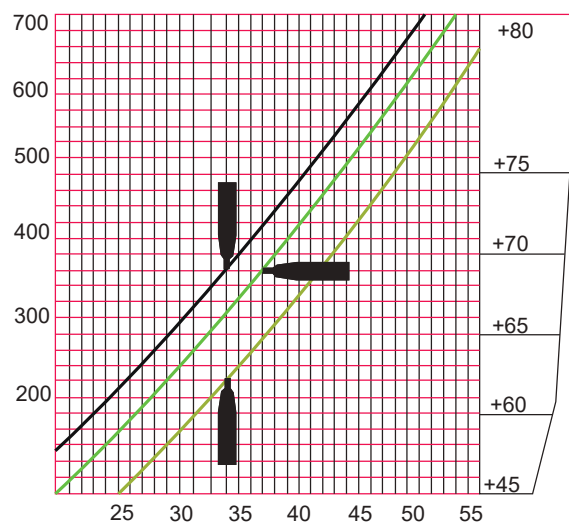
Specifications :

Impact Energy	Type N : 2.25 Nm
Accuracy	Better than +/- 2 Rebound Number (when tested on calibration anvil at 80)
Measuring Range	10 to 110 N/mm ² possible via customised curves
Size	275mm (L) x 55mm (Dia)
Weight	1090grams
Construction	Aluminium body with coating protection

Supply includes : STMH1 concrete test hammer, carry bag, abrasive stone with cover, pencil, instruction manual, manufacturers in a protective carton box. Copy of test certificate in accordance with calibration values, is provided with each instrument.

Warranty : 12 months for product. 6 months for mechanical parts.

fckcube [N/mm²] (Cube 15x15x15cm)



Rebound Value R



STANONE® is a registered trademark of asian contec ltd.

manufactured by : asian contec ltd.

asian center, b-28, okhla Industrial area, phase- 1, New delhi - 110020, India

contact nos : tel : +91-11-41860000 (100 lines), direct sales helpline : +91-11-41406926

web : www.stanlay.in ; email : sales@stanlay.com



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