Strength evaluation
Concrete test hammers

Concrete strength evaluation

The most commonly used non-destructive tests are the ones that provide an indication of the in-situ compressive strength of concrete. These are normally well-known, simple tests, which have already been specified in many National Standards. Controls is able to provide equipment complying with the most frequently used Standards.

SUMMARY OF THE MOST RELEVANT TEST METHODS AND RELATED APPLICATION

Measurement	Application	Code	Description
Surface strength (rebound number)	surface zone strength assessment	**58-C0181**	Concrete test hammer (various versions)
Pullout force	surface zone strength assessment	**58-C0178**	Standard pullout apparatus
Pull-off strength assessment	surface zone strength	**58-C0215/L-M**	Concrete and plaster adhesion testers
Core strength	localised in-situ strength	**58-C0299**	Microcore test apparatus

SURFACE STRENGTH:
REBOUND HAMMER METHOD

STANDARD
EN 12504: Part 2, ASTM C 805, BS 1881:202, NF P18-417, DIN 1048, UNI 9189

Rebound hammer method

Different models are available: from the standard one to the more sophisticated digital model.
The standard model can be supplied complete with traceable certificate of calibration. See 58-C0181/N1.

58-C0181/N

■ 58-C0181/N

Concrete test hammer, classic model, aluminium case.
Scale graduated in MPa.

■ 58-C0181/N1

Concrete test hammer, classic model, aluminium case. Complete with traceable certificate of calibration

General description and specifications

For the non-destructive testing of the surface of hardened concrete in order to evaluate the strength in various parts of a structure.
The concrete hammer is supplied complete with plastic carrying case, grinding stone and instruction manual.
58-C0181/N1 version is supplied complete with traceable certificate of calibration.

Impact energy: 2.207 Nm
Dimensions with plastic case: 78 mm dia. x 355 mm
Weight approx.: 1.5 kg (with case and grinding stone)

Accessories

◤ **58-C0184** Calibration anvil. Used for calibration of concrete test hammers. Made of special alloy steel. Dimensions 150 mm dia. x 230 mm height. Weight 16 kg approx.

◤ **58-C0181/24A** Scale graduated in p.s.i.

58-C0184