

Testing concrete —

Part 202: Recommendations for surface hardness testing by rebound hammer

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- Association of Lightweight Aggregate Manufacturers
- Association of Metropolitan Authorities
- British Aggregate Construction Materials Industries
- British Precast Concrete Federation
- British Ready Mixed Concrete Association
- Building Employers' Confederation
- Cement Admixtures Association
- Cement and Concrete Association
- Cement Makers' Federation
- Concrete Society
- County Surveyor's Society
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property Services Agency)
- Department of the Environment (Transport and Road Research Laboratory)
- Department of Transport (Highways)
- Electricity Supply industry in England and Wales
- Federation of Civil Engineering Contractors
- Institute of Concrete Technology
- Institution of Civil Engineers
- Institution of Highways and Transportation
- Institution of Structural Engineers
- Institution of Water Engineers and Scientists
- Royal Institute of British Architects
- Royal Institution of Chartered Surveyors
- Sand and Gravel Association
- Society of Chemical Industry

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Civil Engineering Test Equipment Manufacturers' Association
- British Nuclear Fuels Limited
- United Kingdom Atomic Energy Authority

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Foreword

This Part of BS 1881 has been prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee. It supersedes BS 4408-4:1971 which is withdrawn. All aspects of testing concrete are being included as Parts of BS 1881, from sampling fresh concrete to assessing concrete in structures. Part 201 gives general guidance on the choice of non-destructive test methods and should be consulted for advice on methods which complement the measurement of surface hardness or are useful as alternatives.

At present, no fundamental relationship has been found between surface hardness and strength or any other measurable property of concrete. The surface hardness tests described in this Part are different in principle from the hardness tests used for metals. Surface hardness tests can, however, be used to give an approximate indication of concrete quality and they are useful in a number of applications. The guidance given in this Part is intended to ensure that they are used to the best advantage and that valid information is derived from test results.

This Part now covers rebound testers only, principally of the spring-loaded type, as the indentation testers dealt with in BS 4408-4 are no longer in common use.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.