

Testing concrete —

Part 115: Specification for compression testing machines for concrete

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- Association of Metropolitan Authorities
- British Aggregate Construction Materials Industries
- British Civil Engineering Test Equipment Manufacturers' Association
- British Precast Concrete Federation
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- Cement Admixtures Association
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Foreword

This Part of BS 1881 revises clause 9 of BS 1881-115:1983, prepared under the direction of the Cement, Gypsum, Aggregates and Quarry Products Standards Committee, to clarify the use of the different methods for verifying the performance of compression testing machines and the frequency of checking parts of the machine. It supersedes BS 1881-115:1983 which is withdrawn.

This Part of BS 1881 gives specific requirements to enable compression testing machines to be used for testing concrete specimens. The requirements relate to control and measurement of the load, the geometry and hardness of the machine platens and the means of alignment that ensure correct load application.

In order to maintain its initially correct performance, annual checks are laid down for load verification by the methods in BS 1610-1 and for load application either by the proving device described in appendix A or by a comparative cube test. The comparative cube testing scheme provided by laboratories accredited by the National Measurement Accreditation Service (NAMAS)¹⁾ verifies the correctness of the whole testing procedure.

It should be possible to carry out all these checks when the machine undergoes an annual service. These checks will also be needed when a machine is moved to a new location or is subject to disturbance, major repairs or adjustments before it is used again to test concrete specimens.

Although the requirements relate mainly to machines used in the compressive strength test for concrete cubes many of the requirements are applicable to machines used in compression tests described in other Parts of BS 1881.

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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.

¹⁾ The National Measurement Accreditation Service (NAMAS) may be contacted at the National Physical Laboratory, Teddington, Middlesex TW11 0LW.