

Measuring instruments for building construction —

Part 1: Methods for determining accuracy in use: Theory

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Basic Data and Performance Criteria for Civil Engineering and Building Structures Standards Policy Committee (BDB/-) to Technical Committee BDB/4, upon which the following bodies were represented:

- Association of County Councils
- British Standards Society
- Building Employers' Confederation
- Chartered Institution of Building Services Engineers
- Concrete Society
- Department of Education and Science
- Department of the Environment (Building Research Establishment)
- Department of the Environment (Property Services Agency)
- Incorporated Association of Architects and Surveyors
- Institute of Building Control
- Institute of Clerks of Works of Great Britain Inc.
- Institution of Civil Engineers
- Institution of Structural Engineers
- Institution of Water and Environmental Management
- Royal Institute of British Architects
- Royal Institution of Chartered Surveyors

The following body was also represented in the drafting of the standard, through subcommittees and panels:

- Chartered Institute of Building

This British Standard, having been prepared under the direction of the Basic Data and Performance Criteria for Civil Engineering and Building Structures Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on 30 September 1990

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The following BSI references relate to the work on this standard:
Committee reference BDB/4
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Amendments issued since publication

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National foreword

This Part of BS 7334 has been prepared under the direction of the Basic Data and Performance Criteria for Civil Engineering and Building Structures Standards Policy Committee. It is identical with ISO 8322-1:1989 *“Building construction — Measuring instruments — Procedures for determining accuracy in use — Part 1: Theory”* published by the International Organization for Standardization (ISO); and gives the basic theory for the analysis of the test results for particular measuring instruments for which testing procedures are described in the subsequent Parts of BS 7334.

The series of Parts comprising BS 7334 will assist in ascertaining whether particular measuring equipment is appropriate to intended measuring tasks; they are also intended for assessing the accuracy in use of measuring instruments in general use on construction sites.

- *Part 1:1990, Theory.*
- *Part 2:1990, Measuring tapes.*
- *Part 3:1990, Optical levelling instruments.*
- *Part 4:1992, Theodolites.*
- *Part 5:1992, Optical plumbing instruments.*
- *Part 6:1992, Laser instruments.*
- *Part 7:1992, Instruments when used for setting out.*
- *Part 8:1992, Electronic distance-measuring instruments up to 150 m.*

The parts are referred to in BS 5606:1990 *“Guide to accuracy in building”*.

Cross-references

International Standard	Corresponding British Standard
	BS ISO 3534 <i>Statistics, vocabulary and symbols</i>
ISO 3534-1:1993	BS ISO 3534-1:1993 <i>Probability and general statistical terms</i> (Identical)
ISO 3534-3:1985	BS ISO 3534-3:1985 <i>Glossary of terms relating to the design of experiments</i> (Identical)
ISO 4463-1:1989	BS 5964 <i>Building setting out and measurement</i> Part 1:1990 <i>Methods of measuring, planning and organization and acceptance criteria</i> (Identical)
ISO 4463-2:1995	Part 2:1996 <i>Measuring stations and targets</i> (Identical)
ISO 4463-3:1995	Part 3:1996 <i>Check-lists for the procurement of surveys and measurement services</i> (Identical)
ISO 7078:1985	BS 6953:1988 <i>Glossary of terms for procedures for setting out, measurement and surveying in building construction (including guidance notes)</i> (Identical)

The Technical Committee has reviewed the provisions of ISO 7077, to which reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, 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.