

Door leaves — Method for measurement of height, width, thickness and squareness

The European Standard EN 951:1998 has the status of a
British Standard

ICS 91.060.50

National foreword

This British Standard is the English language version of EN 951:1998.

The UK participation in its preparation was entrusted to Technical Committee B/538, Doors, windows, shutters, hardware and curtain walling, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

This British Standard forms part of a package of standards on doors which will not become fully effective until all standards in the package have been published and any superseded standards have been withdrawn. The date of withdrawal for national standards will be agreed within CEN and will be notified.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 4, an inside back cover and a back cover.

Amendments issued since publication

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Descriptors: door leaves, dimension measurements, height, width, thickness, squareness, defects

English version

Door leaves — Method for measurement of height, width, thickness and squareness

Vantaux de portes — Methode de mesure des hauteur, largeur, épaisseur et équerrage

Türblätter — Meßverfahren zu Ermittlung von Höhe, Dicke und Rechtwinkligkeit

This European Standard was approved by CEN on 26 November 1998.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 33, Doors, windows, shutters and building hardware, the Secretariat of which is held by AFNOR.

This European Standard replaces EN 25:1975.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 1999, and conflicting national standards shall be withdrawn at the latest by December 1999.

This standard is one of a series of standards for doors. The test method relates to performance requirements to be published in EN 1529.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard applies to all rectangular door leaves and the measurable parameters of doors of other shapes.

This standard specifies the method to be used to measure the dimensions of height, width and thickness, and defects of squareness of door leaves.

2 Apparatus

2.1 *Measurement instrument for height and width*, steel measuring tape, or similar measuring instrument, accurate to 0,5 mm.

2.2 *Measurement instrument for thickness*, micrometer, or similar measuring instrument accurate to 0,01 mm.

2.3 *Measurement instrument for squareness*, a metal square having two arms with inside reference dimensions of (500 ± 1) mm. The right angle between the arms shall be accurate to 0,1 mm in 500 mm. The square shall incorporate a dial or digital gauge accurate to 0,1 mm mounted at the 500 mm reference point of one arm (see Figure 1).

NOTE An additional block and feeler gauges may be used in place of the dial or digital gauge.

3 Test specimens

Test specimens shall be stored and tested in a non-destructive environment within the ranges of 15 °C to 30 °C and 25 % to 75 % relative humidity.

Doors which are designed to be glazed, shall be supplied for testing with all glazing carried out in accordance with the door manufacturer's specifications.

4 Procedure

4.1 Height and width measurement

Measure, to the nearest 1 mm, the height and width of each door leaf along lines a-a, b-b, c-c, d-d parallel to, and (20 ± 5) mm from, each edge respectively (see Figure 2).

NOTE In the case of a door leaf with rebated edges, the dimensions of height or width should be measured to the inner edges of the rebates.

4.2 Thickness measurement

Measure the thickness at 6 points located (20 ± 5) mm from the edges and at the positions indicated in Figure 2, to the nearest 0,1 mm.

NOTE If a measuring point occurs where the thickness is not representative of the doors, e.g. because of surface profiles, local adjustment of the measurement position is permitted.

4.3 Squareness measurement

Measure any deviation from squareness of the door leaf at all four corners to the nearest 0,1 mm.

5 Expression of results

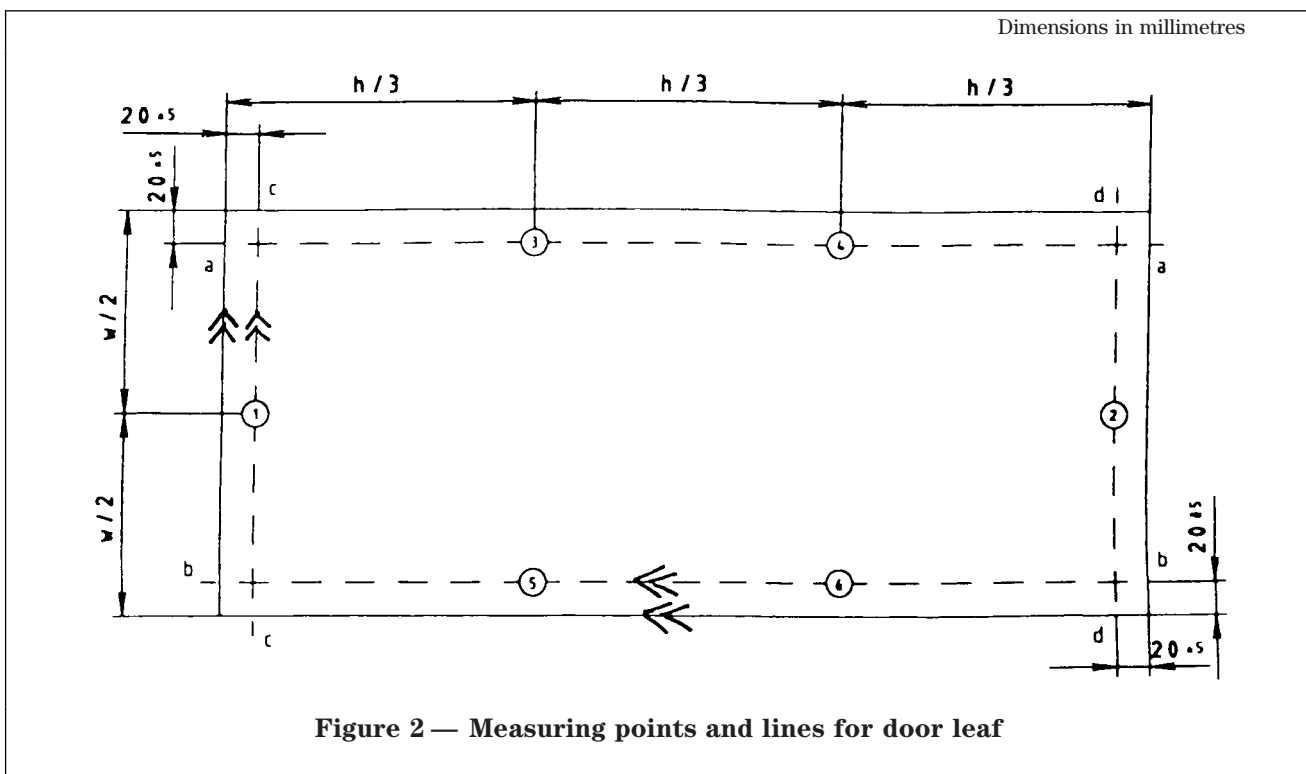
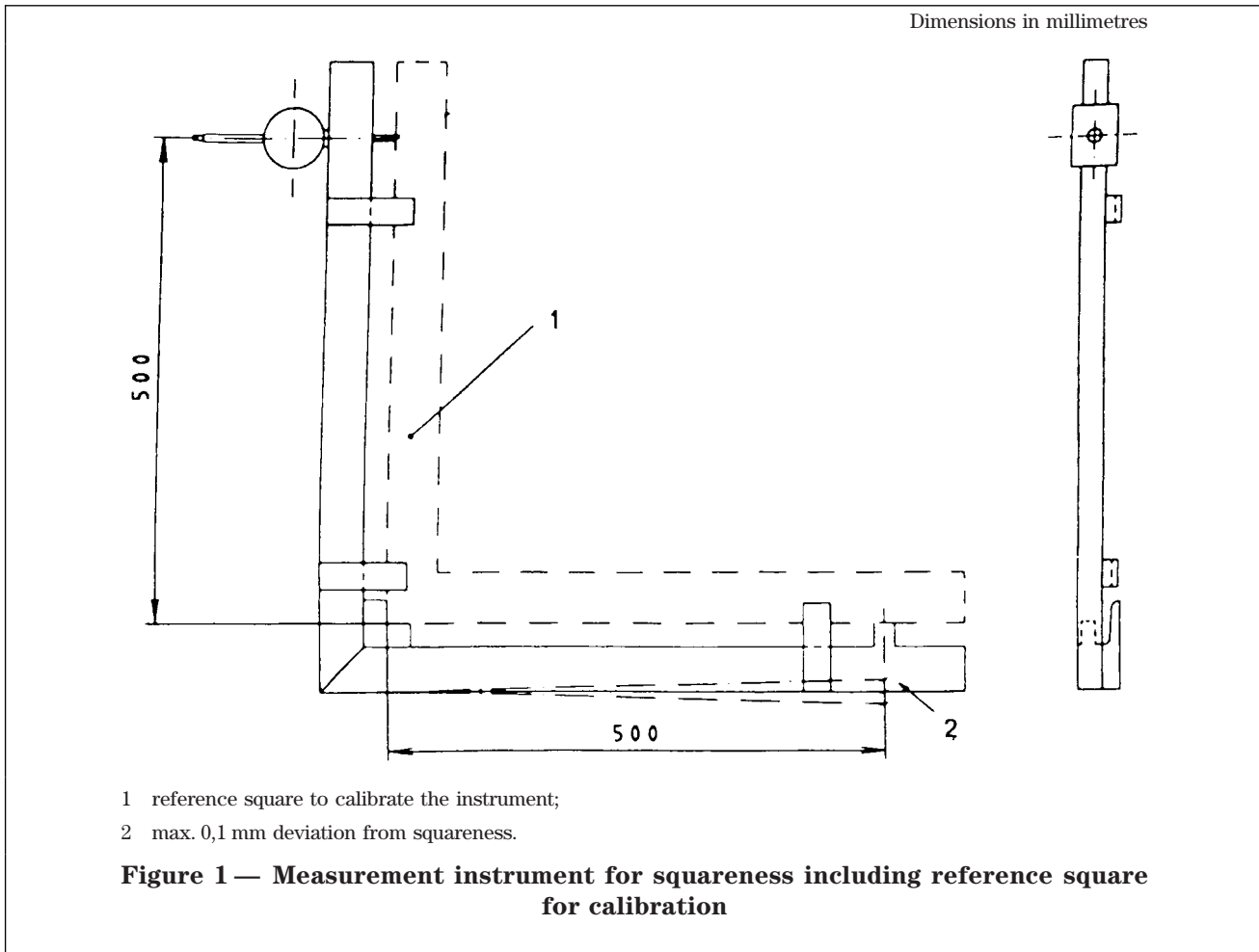
Record:

- height and width measurements and maximum deviations in relation to the specified dimensions;
- thickness measurements and maximum deviation in relation to the specified dimension;
- the four measured values of deviation from squareness.

6 Test report

The test report shall contain the following information:

- a) reference to this European Standard;
- b) all necessary details to identify the door leaf;
- c) all relevant details concerning the type, specified dimensions, materials, form and construction of the door leaf;
- d) laboratory storage and testing conditions;
- e) the results expressed as in clause 5;
- f) name of testing laboratory;
- g) date of test.



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