

# INTERNATIONAL STANDARD

# ISO 9424

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## Wood-based panels — Determination of dimensions of test pieces

**iTeh STANDARD PREVIEW**  
*Panneaux à base de bois — Détermination des dimensions des éprouvettes*  
**(standards.iteh.ai)**

[ISO 9424:1989](#)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 9424 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*.

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It cancels and replaces ISO 766 : 1972, ISO 821 : 1975 and ISO 3804 : 1977, of which it constitutes a technical revision.

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# Wood-based panels — Determination of dimensions of test pieces

## 1 Scope

This International Standard specifies a method for measuring the thickness, length and width of test pieces of wood-based panels such as fibre building boards, defined in ISO 818, particle boards, defined in ISO 820, as well as plywood, defined in ISO 2074.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 818 : 1975, *Fibre building boards — Definition and Classification*.

ISO 820 : 1975, *Particle boards — Definition and classification*.

ISO 2074 : 1972, *Plywood — Vocabulary*.

## 3 Apparatus

### 3.1 Thickness measurement

**Micrometer**, having flat and parallel circular measuring surfaces of 16 mm  $\pm$  1 mm diameter and an operating force of 4 N  $\pm$  1 N. The graduation of the apparatus shall allow a reading to an accuracy of 0,01 mm.

### 3.2 Length and width measurement

**Sliding caliper**, or any other instrument, with measuring surfaces of at least 5 mm width, graduated to allow a reading to an accuracy of 0,1 mm.

## 4 Sampling, dimensions and conditioning of test pieces

4.1 Sampling and cutting of test pieces will be the subject of a future International Standard.

4.2 The dimensions of the test pieces shall be in accordance with those specified in the relevant test method.

4.3 Condition the test pieces to constant mass in an atmosphere with a relative humidity of 65 %  $\pm$  5 % and a temperature of 20 °C  $\pm$  2 °C.

NOTE — Constant mass is considered to be reached when the results of two successive weighing operations, carried out at an interval of 24 h, do not differ by more than 0,1 % of the mass of the test piece.

## 5 Procedure

### 5.1 Measuring points

The number and positions of the measuring points shall be in accordance with the International Standard concerning the test method for which the measurements are required.

### 5.2 Thickness measurement

Apply slowly the measuring surfaces of the micrometer to the test piece.

For test pieces with a thickness equal to or less than 7 mm, measure the thickness to an accuracy of 0,01 mm.

For test pieces with a thickness greater than 7 mm, measure the thickness to an accuracy of 0,1 mm.

### 5.3 Length and width measurement

Apply slowly and without excessive pressure the jaw of the sliding caliper to the test piece, at an angle of approximately 45° to the plane of the test piece (see figure 1).

Measure the length and width to an accuracy of 0,1 mm.

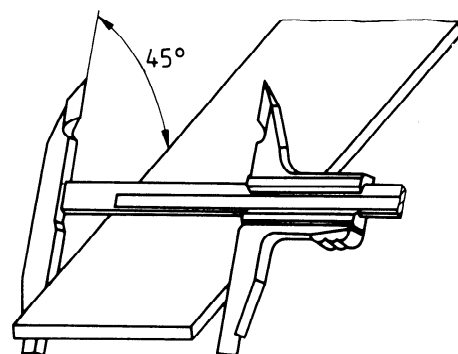


Figure 1 — Inclination of sliding caliper to plane of test piece

## 6 Expression of results

### 6.1 Thickness

For each test piece with a thickness equal to or less than 7 mm, calculate the arithmetic mean of the measurements to the nearest 0,01 mm.

For each test piece with a thickness greater than 7 mm, calculate the arithmetic mean of the measurements to the nearest 0,1 mm.

### 6.2 Length and width

For each test piece calculate the arithmetic mean of the measurements for the length and the width to the nearest 0,1 mm.

## 7 Test report

The test report shall conform with that specified in the International Standard concerning the particular test method.

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