

INTERNATIONAL STANDARD

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Wood-based panels — Determination of dimensions —

Part 1 :

Determination of thickness, width and length

iTeh STANDARD PREVIEW

Panneaux à base de bois — Détermination des dimensions —

Partie 1 : Détermination de l'épaisseur, de la largeur et de la longueur

ISO 9426-1:1989

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INTERNATIONAL

ISO



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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 9426-1 was prepared by Technical Committee ISO/TC 89, *Wood-based panels*.

It cancels and replaces in part ISO 1097:1975 of which it constitutes a technical revision.

ISO 9426 consists of the following parts, under the general title *Wood-based panels — Determination of dimensions*:

- Part 1: *Determination of thickness, width and length*
- Part 2: *Determination of squareness and straightness*

Wood-based panels — Determination of dimensions —

Part 1 :

Determination of thickness, width and length

1 Scope

This part of ISO 9426 specifies methods for measuring the thickness, width and length of wood-based panels such as fibre building boards, defined in ISO 818, particle boards, defined in ISO 820, and plywood, defined in ISO 2074.

It applies to whole flat panels.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9426. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9426 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 — Classification*.

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

ISO 2074:1972, *Plywood — Vocabulary*.

ISO 9425:1989, *Wood-based panels — Determination of moisture content*.

3 Apparatus

3.1 Thickness measurement

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

3.2 Length and width measurement

3.2.1 Steel measuring tape, accurate to 1 mm.

4 Sampling and conditioning

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

4.2 Condition the panels to constant mass in an atmosphere with a relative humidity of $65 \% \pm 5 \%$ and a temperature of $20 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$.

NOTE 1 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 panel.

4.3 If these conditions cannot be obtained, determine the moisture content of the panels in accordance with ISO 9425.

5 Procedure

5.1 Determination of thickness

Measure the thickness approximately 50 mm from the edges, at points located in each corner and in the middle of each side, i.e. at eight points in all, to an accuracy of 0,1 mm.

For measuring the thickness, apply slowly the measuring surfaces of the micrometer to the panel surface.

5.2 Determination of length and width

Measure the length and width of each panel at two points, parallel to and at a distance of 100 mm from the edges, to an accuracy of 1 mm.

6 Expression of results

6.1 Thickness

For each panel tested, calculate the arithmetic mean of the measurements to the nearest 0,1 mm.

6.2 Length and width

For each panel tested, calculate the arithmetic mean of the measurements for the length and the width to the nearest 1 mm.

7 Test report

The test report shall include the following particulars:

- a) the type of panel, as defined in ISO 818, ISO 820 and ISO 2074, and all necessary details to identify the panel;
- b) the method of sampling;
- c) the moisture content of the panels at the time of measurement, if the panels were not conditioned in accordance with clause 4;
- d) the results, expressed as stated in clause 6;
- e) any deviations from this part of ISO 9426;
- f) reference to this part of ISO 9426.

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