INTERNATIONAL STANDARD 821

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Particle boards — Determination of dimensions of test pieces

Panneaux de particules — Détermination des dimensions des éprouvettes

First edition — 1975-06-15

UDC 674.816-41 : 531.717

Ref. No. ISO 821-1975 (E)

Descriptors : building boards, particle boards, tests, test specimens, dimensional measurement.

Price based on 1 page

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 151 has reviewed ISO Recommendation R 821 and found it technically suitable for transformation. International Standard ISO 821 therefore replaces ISO Recommendation R 821-1968 to which it is technically identical.

ISO Recommendation R 821 was approved by the Member Bodies of the following countries :

Austria	Germany	Portugal
Belgium	India	Romania
Canada	Ireland	South Africa, Rep. of
Chile	Israel	Spain
Colombia	Korea, Rep. of	Sweden
Czechoslovakia	Netherlands	Switzerland
Egypt, Arab Rep. of	New Zealand	United Kingdom
Finland	Norway	U.S.S.R.
France	Poland	Yugoslavia

No Member Body expressed disapproval of the Recommendation.

The Member Body of the following country disapproved the transformation of ISO/R 821 into an International Standard :

Norway

Printed in Switzerland

Particle boards — Determination of dimensions of test pieces

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method for measuring the thickness, length and width of test pieces of particle boards, defined in ISO 820.

2 REFERENCES

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

ISO . . ., *Particle boards — Sampling, cutting and inspection.* [1]

3 APPARATUS

3.1 Micrometer, having flat and parallel circular measuring surfaces of 16 ± 1 mm diameter (approximately 200 mm²). The graduation of the apparatus should allow a reading to an accuracy of 0,01 mm.

3.2 Sliding caliper, or any other instrument with a jaw thickness of at least 5 mm, and graduated to allow a reading to an accuracy of 0,1 mm.

3.3 Balance, allowing a reading to an accuracy of 0,01 g.

4 SAMPLING AND TEST PIECES

4.1 Sampling and cutting of the test pieces shall be carried out in accordance with ISO . . .

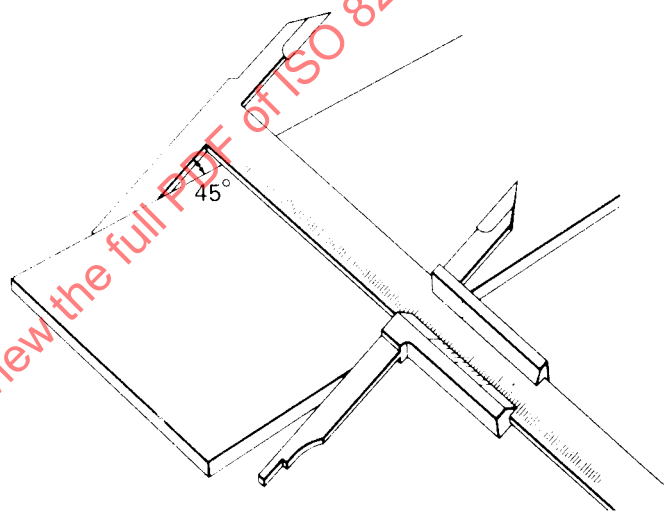
4.2 The dimensions of the test pieces shall be in accordance with those specified in the relevant test method.

4.3 The test pieces shall be conditioned to constant mass[2] in an atmosphere of relative humidity 65 ± 5 % and temperature 20 ± 2 °C.

5 PROCEDURE

5.1 For measuring the thickness, apply the measuring surfaces of the micrometer slowly to the test piece and at a pressure of approximately 0,02 N/mm².

5.2 For measuring the length and width, apply the jaw of the sliding caliper slowly and without excessive pressure to the test piece at an angle of approximately 45° to the plane of the test piece (see the figure).



5.3 The number and position of the measuring points shall be in accordance with the ISO publications concerning each method of testing particle boards.

6 EXPRESSION OF RESULTS

6.1 The result of each of the measurements shall be expressed as follows :

a) *Thickness*

— to the nearest 0,05 mm,

b) *Length and width*

— to the nearest 0,1 mm.

6.2 For determination of thickness, length and width of the test piece, the mean arithmetical value of each group of measurements shall be stated to two decimal places.

7 TEST REPORT

See the ISO publications concerning each particular testing method.

1) In preparation.

2) 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.