

INTERNATIONAL STANDARD



819

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

Fibre building boards — Determination of density

Panneaux de fibres — Détermination de la masse volumique

First edition — 1975-01-15

iTeh STANDARD PREVIEW
(standards.iteh.ai)

[ISO 819:1975](#)

<https://standards.iteh.ai/catalog/standards/sist/26fda8db-ece1-402d-a8b0-9a871241dbd0/iso-819-1975>

UDC 674.817-41 : 531.754.1

Ref. No. ISO 819-1975 (E)

Descriptors : construction materials, building boards, fibre boards, tests, density (mass/volume), measurement.

Price based on 2 pages

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 89 has reviewed ISO Recommendation R 819 and found it technically suitable for transformation. International Standard ISO 819 therefore replaces ISO Recommendation R 819-1968 to which it is technically identical.

<https://standards.iteh.ai/catalog/standards/sist/26fda8db-ecce1-402d-a8b0->

ISO Recommendation R 819 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 819 into an International Standard :

Norway

Fibre building boards – Determination of density

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies a method of determining the density of fibre building boards, defined in ISO 818.

2 REFERENCES

ISO 766, *Fibre building boards – Determination of dimensions of test pieces.*

ISO 767, *Fibre building boards – Determination of moisture content.*

ISO 818, *Fibre building boards – Definition – Classification.*

ISO . . . , *Fibre building boards – Sampling, cutting and inspection.*¹⁾

3 PRINCIPLE

Determination of the ratio of the mass, in grams, of a test piece to its volume in cubic centimetres.

4 APPARATUS

See ISO 766.

5 SAMPLING AND TEST PIECES

5.1 Carry out the sampling and cutting of the test pieces in accordance with the method given in ISO

5.2 The test pieces shall be square in shape with sides measuring 100 mm.

6 PROCEDURE

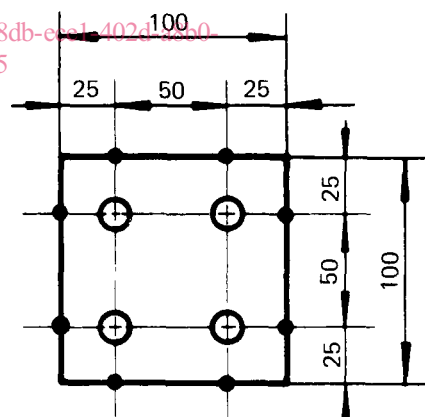
6.1 Condition the test pieces to constant mass²⁾ in an atmosphere with a relative humidity of $65 \pm 5\%$ and a temperature of $20 \pm 2^\circ\text{C}$. H5.

6.2 Weigh each test piece to an accuracy of 0,1 g. 11

6.3 Measure the dimensions of each test piece in accordance with ISO 766, as follows: 92

a) The thickness at four different points, shown as circles in the drawing below.

Dimensions in millimetres



b) The dimensions of the sides, parallel to the edges, between the two respective points shown in the drawing above.

6.4 Calculate the volume of ~~the~~ ^{each} test piece to the nearest 0,1 cm³. 13

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.

7 EXPRESSION OF RESULTS

7.1 Calculate the density, ρ , in grams per cubic centimetre, of each test piece to the nearest 0,01 g/cm³ in accordance with the following formula :

$$\rho = \frac{m}{V}$$

where

m is the mass, in grams, of the test piece;

V is the volume, in cubic centimetres, of the test piece.

7.2 The density of one board is obtained by calculating to the nearest 0,01 g/cm³ the arithmetical mean value of the density of all the test pieces taken from the same board.

8 TEST REPORT

The test report shall include the following particulars :

- a) the type of board as defined in ISO 818, and all the necessary details to identify the boards;
- b) the results expressed as stated in clause 7;
- c) the moisture content of the test pieces at the time of testing, in accordance with ISO 767 and ISO . . . ;
- d) the reference to this International Standard.

iTeh STANDARD PREVIEW
(standards.iteh.ai)

ISO 819:1975

<https://standards.iteh.ai/catalog/standards/sist/26fda8db-ece1-402d-a8b0-9a871241dbd0/iso-819-1975>