

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 767

FIBRE BUILDING BOARDS

DETERMINATION OF MOISTURE CONTENT

1st EDITION

June 1968

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BRIEF HISTORY

The ISO Recommendation R 767, *Fibre building boards – Determination of moisture content*, was drawn up by Technical Committee ISO/TC 89, *Boards made from wood or other ligno-cellulosic fibrous materials*, the Secretariat of which is held by the Deutscher Normenausschuss (DNA).

Work on this question by the Technical Committee began in 1959 and led, in 1964, to the adoption of a Draft Recommendation.

In October 1965, this Draft ISO Recommendation (No. 841) was circulated to all the ISO Member Bodies for enquiry. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Argentina	Hungary	South Africa,
Australia	India	Rep. of
Austria	Ireland	Spain
Belgium	Israel	Sweden
Brazil	Japan	Switzerland
Canada	Netherlands	U.A.R.
Czechoslovakia	New Zealand	United Kingdom
Finland	Poland	U.S.S.R.
France	Portugal	Yugoslavia
Germany	Romania	

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in June 1968, to accept it as an ISO RECOMMENDATION.

FIBRE BUILDING BOARDS

DETERMINATION OF MOISTURE CONTENT

1. SCOPE

This ISO Recommendation describes a method of determining the moisture content of fibre building boards, defined in ISO Recommendation R ...,* *Fibre building boards – Definition – Classification*.

2. PRINCIPLE OF THE METHOD

To determine, by weighing, the loss of mass of each test piece between its state at the time of sampling and its state after drying to constant mass and to relate this loss to the mass of the test piece after drying.

3. APPARATUS

- 3.1 *Balance*, allowing a reading to an accuracy of 0.01 g.
- 3.2 *Air convection drying oven*, the temperature of which can be maintained at 103 ± 2 °C.

4. SAMPLING AND TEST PIECES

- 4.1 Sampling and cutting of the test pieces should be carried out in accordance with ISO Recommendation R ...,** *Fibre building boards – Sampling, cutting and inspection*.
- 4.2 **Test pieces**

The test should be carried out on test pieces of any shape and dimensions, having an area between 60 and 300 cm². Test pieces should preferably be 10 cm × 10 cm.

5. PROCEDURE

- 5.1 Weigh each test piece in the same state as at the time of sampling (see Note below), to an accuracy of 0.01 g.
- 5.2 Dry each test piece at a temperature of 103 ± 2 °C to constant mass.***
- 5.3 After cooling in a dry atmosphere, weigh it with the same accuracy as before, rapidly enough to avoid an increase of moisture content greater than 0.1 %.

NOTE. – The first weighing should be carried out immediately after sampling. If this is impossible, all precautions should be taken to avoid variations of the moisture content during the time from sampling to weighing.

* At present Draft ISO Recommendation No. 956.

** At present at the stage of draft proposal.

*** Constant mass is considered to be reached when two successive weighing operations carried out at an interval of 6 hours do not differ by more than 0.1 % of the mass of the test piece.