

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1896

THERMAL INSULATING ASBESTOS BOARDS

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BRIEF HISTORY

The ISO Recommendation R 1896, *Thermal insulating asbestos boards*, was drawn up by Technical Committee ISO/TC 77, *Products in asbestos cement*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question led to the adoption of Draft ISO Recommendation No. 1896, which was circulated to all the ISO Member Bodies for enquiry in June 1970. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	France	Romania
Austria	Germany	South Africa, Rep. of
Belgium	Greece	Spain
Brazil	India	Switzerland
Chile	Israel	Thailand
Czechoslovakia	Italy	U.A.R.
Denmark	New Zealand	United Kingdom
Finland	Poland	

The following Member Bodies opposed the approval of the Draft :

Norway
Sweden

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

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THERMAL INSULATING ASBESTOS BOARDS*

1. SCOPE

This ISO Recommendation applies to thermal insulating asbestos boards. These boards are of two types :

- those essentially for use where thermal insulating is the paramount characteristic, and which are known as asbestos insulating boards;
- those where this property is of less importance due to a higher material density, and which are primarily intended for wall linings and for partitions; they are known as asbestos wallboards.

Both asbestos insulating boards and asbestos wallboards are intended primarily for interior use; however, such boards may be used externally when suitably protected against the ingress of moisture.

Moulded pieces of the same material as thermal insulating boards should have the same basic characteristics as the boards themselves.

This ISO Recommendation defines certain conditions of manufacture, dimensions and acceptance tests** applicable to these products.

2. REQUIREMENTS

2.1 Composition

The boards should be made from a close and homogeneous mixture consisting solely of asbestos fibre and suitable mineral agents and inorganic fillers.

The boards may be left in their natural colour or may be coloured by the addition of mineral colouring matter in the composition; they may also receive adherent coloured or uncoloured coatings or veneers on their surfaces.

2.2 Classification

The boards are classified both according to their density and their thermal conductivity, as follows :

- (a) *insulating boards*, having a density below 0.9 kg/dm^3 and a thermal conductivity, determined on dried test pieces, not greater than $0.145 \text{ W/(m}\cdot\text{K)}$ [$0.125 \text{ kcal/(h}\cdot\text{m}\cdot^\circ\text{C)}$],
- (b) *asbestos wallboards*, having a density from 0.9 to 1.2 kg/dm^3 and a thermal conductivity, determined on dried test pieces, not greater than $0.291 \text{ W/(m}\cdot\text{K)}$ [$0.250 \text{ kcal/(h}\cdot\text{m}\cdot^\circ\text{C)}$].

* See also ISO Recommendation R 396, *Asbestos-cement flat sheets*.

** For certain specialized purposes a screw-holding test may be demanded by the purchaser. If so, a testing method as described in Annex B should be used.