INTERNATIONAL STANDARD 2510

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Cork — Sound absorbing composition cork in tiles — Characteristics

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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.

International Standard ISO 2510 was drawn up by Technical Committee ISO/TC 87, *Cork*, and circulated to the Member Bodies in September 1971.

It has been approved by the Member Bodies of the following countries :

Belgium	Germany	Portugal
Bulgaria	Hungary	South Africa, Rep. of
Czechoslovakia	Iran	Spain
Egypt, Arab Rep. of	Italy	United Kingdom
France	Poland	

The Member Body of the following country expressed disapproval of the document on technical grounds :

Romania

Printed in Switzerland

Cork — Sound absorbing composition cork in tiles — Characteristics

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of sound absorbing composition cork in tiles.

2 REFERENCES

ISO/R 354, *Measurement of absorbtion coefficients in a reverberation room.*

ISO/R 2077, *Pure expanded cork board — Determination of the modulus of rupture by bending.*

3 DEFINITION

sound absorbing composition cork : Composition cork in tiles for use in the correction of room acoustics through the absorption of incident sounds, manufactured by the agglomeration of granulated cork with the addition of binders.

4 DIMENSIONS AND DETAILS OF MANUFACTURE

4.1 Dimensions

Tiles shall have the following dimensions :

- 300 mm × 300 mm.
- Minimum thickness : 15 mm.

Other dimensions may be agreed upon between the interested parties.

4.2 Details of manufacture

Sound absorbing composition cork may have grooves, lap-joints, flutes, perforations and chamfered edges. In such cases the manufacturer shall specify their location and maximum dimensions.

5 TOLERANCES

5.1 Overall dimensions

The following maximum tolerances apply to sound absorbing composition cork in tiles, in relation to nominal dimensions at a temperature of 20 ± 2 °C and at a relative humidity of 65 ± 5 % :

- Length and width : ± 0,4 %.
- Thickness : ± 0,20 mm for non-chamfered tiles, and ± 0,30 mm for chamfered tiles.

For grooved tiles, the tolerance on thickness is determined from the axis of the groove to the visible surface to be used.

5.2 Straightness of the edge

Deviations from straightness shall not exceed 1,5 mm at any point on the edge.

5.3 Squareness

The visible edges of sound absorbing composition cork in tiles must be at right angles. The maximum deviation from squareness measured over the whole length of an edge shall not exceed 0,25 % of that length.

5.4 Flatness

After keeping the tiles flat during 48 h at a temperature of 20 ± 2 °C and at a relative humidity of 65 ± 5 %, their visible face shall present no concavity and no convexity in excess of 5 mm per metre. In the case of tiles intended to be hung, the flatness shall be checked with the tile hanging as in use and natural sagging shall be included in the tolerance.

A rule must be used to carry out this measurement.