

INTERNATIONAL STANDARD



2509

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

Cork — Sound absorbing expanded pure agglomerated cork in tiles — Characteristics

First edition 1973-07-01

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UDC 691.13 : 534.84

Ref. No. ISO 2509-1973 (E)

Descriptors : cork, agglomerates, acoustic insulation, tiles, floor coverings, specifications.

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.

International Standard ISO 2509 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	South Africa, Rep. of
Bulgaria	Hungary	Spain
Czechoslovakia	Iran	United Kingdom
Egypt, Arab Rep. of	Italy	
France	Portugal	

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

Romania

Cork — Sound absorbing expanded pure agglomerated cork in tiles — Characteristics

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies certain characteristics of sound absorbing expanded pure agglomerated cork in tiles.

2 REFERENCES

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

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

3 DEFINITION

sound absorbing expanded pure agglomerated cork :
Expanded agglomerated cork in tiles for use in the correction of room acoustics through the absorption of incident sounds, and manufactured by the agglomeration of granulated cork without the addition of binders.

4 DIMENSIONS AND DETAILS OF MANUFACTURE

4.1 Dimensions

Tiles shall have the following dimensions :

- 300 mm X 300 mm
- Minimum thickness : 20 mm.

Other dimensions may be agreed upon between the interested parties.

4.2 Details of manufacture

Sound absorbing expanded pure agglomerated 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 expanded pure agglomerated 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 : $\pm 0,4$ %.
- Thickness : $\pm 0,4$ mm.

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

5.2 Squareness

The visible edges of sound absorbing expanded pure agglomerated cork in tiles must be at right angles. The maximum deviation from squareness measured over the whole length of an edge shall not exceed 0,5 % of that length.

6 MODULUS OF RUPTURE BY BENDING

The modulus of rupture of each specimen tested by bending must be at least 15 N/m^2 for the thickness $e \geq 20$ mm.

The modulus of rupture shall be determined as specified by ISO/R 2077.

7 RESISTANCE TO FLAME PROPAGATION

Sound absorbing expanded pure agglomerated cork may be treated on the surface or in its substance, by adding chemicals, to increase the resistance of the surface to flame propagation.