INTERNATIONAL STANDARD

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Cork decorative panels — Specification

Panneaux décoratifs à base de liège — Spécifications

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Contents

Page

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8724 was prepared by Technical Committee ISO/TC 87, *Cork*. It is based on EN 12781:2001.

This second edition cancels and replaces the first edition (ISO 8724:1989), which has been technically revised.

Cork decorative panels — Specification

1 Scope

This International Standard specifies the characteristics of cork decorative panels for covering internal walls.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 633, *Cork — Vocabulary*

ISO 2066, *Resilient floor coverings — Determination of moisture content of agglomerated composition cork*

ISO 7322, *Composition cork — Test methods*

ISO 9366, *Agglomerated cork floor tiles — Determination of dimensions and deviation from squareness and from straightness of edges*

ISO 9001, *Quality management systems — Requirements*

ISO 29466, *Thermal insulating products for building applications — Determination of thickness*

EN 434, *Resilient floor coverings — Determination of dimensional stability and curling after exposure to heat*

EN 12089:1997, *Thermal insulating products for building applications — Determination of bending behaviour*

EN 12149:1997, *Wallcoverings in roll form — Determination of migration of heavy metals and certain other elements, of vinyl chloride monomer and of formaldehyde release*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 633 apply.

4 Classification

Cork decorative panels may be grouped into four classes according to their constitution (see ISO 633) as shown in Table 1.

Table 1 — Classification

Class	Constitution
I	Expanded pure agglomerated cork
II	Composition cork
III	Composition by gluing two or three of the preceding classes
IV	Composition by gluing any other material with one of the preceding classes

5 Requirements

Cork panels shall conform with the requirements specified in Table 2, when tested in accordance with the methods specified therein.

NOTE Information on additional properties is given in Annex B.

6 Test methods

6.1 Sampling

The sample for testing shall be taken from the available material, either during the process or from the final product. Test specimens shall be taken, one per panel, at a minimum distance of 50 mm from the edges. Each test specimen shall be squarely cut and have edges perpendicular to its surface and not show any cracks or folds.

The minimum number of test specimens required to obtain one test result on a product property is given in Table 2.

6.2 Conditionning

Test specimens shall be conditioned before testing for at least 12 h at (23 ± 5) °C. In case of dispute, they shall be conditioned before testing at (23 ± 2) °C and (50 ± 5) % relative humidity, for at least 24 h. Before the determination of the moisture content, no conditioning shall be done.

6.3 Testing

Tests shall be carried out in accordance with the standards specified in Table 2. The test result on a product property is the mean of the measured values on the number of test specimens specified in Table 2.

Table 2 — Requirements and test methods

Property	Requirements	Dimension (or mass) of test specimens	Test method	Number of test specimens to obtain one result
Side length	maximum deviation from nominal dimensions ± 0,5%	full panel	ISO 9366	**5**
Squareness and straightness	maximum deviation:	full panel	ISO 9366	**5**
Side ⩽ 400 mm	⩽ 0,5 mm			
Side > 400 mm	⩽ 1,0 mm			
Overal thickness				
Type I:	maximum deviation from nominal value: ± 0,8 mm	full panel	ISO 29466	5
Types II, III and IV:	maximum deviation from nominal value: ± 0,3 mm	full panel	ISO 7322	5
Bending strength				
Type I	⩾ 130 kPa	300 mm × 150 mm	EN 12089:1997 method B	5
Tensile strength				
Types II, III and IV	⩾ 200 kPa	100 mm × 50 mm	ISO 7322	3
Dimensional stability	⩽ 0,4 %	full panel	EN 434	3
Curling	⩽ 6 mm	full panel	EN 434	3
Moisture content	⩽ 7 %	100 mm × 100 mm	ISO 2066	3
Resistance of gluing	shall not unglue	100 mm × 100 mm	see Annex A	3
Resistance to boiling water				
Types I and II	shall not disintegrate	100 mm × 100 mm	ISO 7322	3
Formaldehyde released	⩽ 9 mg/kg	50 mm × 25 mm (10 g to 15 g)	EN 12149:1997 method C[a]	3

[a] With modifications specified in Annex B.

7 Evaluation of conformity

The evaluation of conformity shall be based on factory production control and tests on samples taken at the factory, following the provisions given in Annex C.

8 Marking, labeling and packaging

Products conforming to the requirements of this International Standard shall be clearly and indelibly marked by the manufacturer, either on the packaging or on an adhesive label, with the following information:

a) the number and the year of this International Standard, i.e. ISO 8724:2009;

b) name or supplier's identification;

c) the product name and batch number (possibly in code form);

d) year of manufacture (last two digits);

e) the nominal dimensions of the panels;

f) the number of panels in each package;

g) a warning that packages should be stored/shielded from direct sunlight and atmospheric humidity.

Annex A
(normative)

Determination of the resistance of a glued joint

A.1 Procedure

Place three test pieces of 100 cm^2 in the oven at a temperature of (20 ± 5) °C and (85 ± 5) % relative humidity for (24 ± 1) h.

Remove the test pieces and let them dry for 3 h at (60 ± 2) °C.

A.2 Expression of results

Express the result of the test by reporting the presence or the absence of ungluing between surfaces.