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**Wallcoverings - Specification for cork panels**

Wallcoverings - Specification for cork panels

Wandbekleidungen - Festlegung für Korkplatten

Revetements muraux - Spécification pour les panneaux en liège

**Ta slovenski standard je istoveten z: EN 12781:2001**[SIST EN 12781:2001](https://standards.iteh.ai/catalog/standards/sist/205c3582-dff8-4f4b-92c2-a72db287f420/sist-en-12781-2001)<https://standards.iteh.ai/catalog/standards/sist/205c3582-dff8-4f4b-92c2-a72db287f420/sist-en-12781-2001>**ICS:**

79.100	Pluta in izdelki iz plute	Cork and cork products
91.180	Notranje obzidje in tla	Interior finishing

**SIST EN 12781:2001****en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 12781

January 2001

ICS 79.100; 91.180

English version

Wallcoverings - Specification for cork panels

Revêtements muraux - Spécification pour les panneaux en liège

Wandbekleidungen - Festlegung für Korkplatten

This European Standard was approved by CEN on 5 January 2001.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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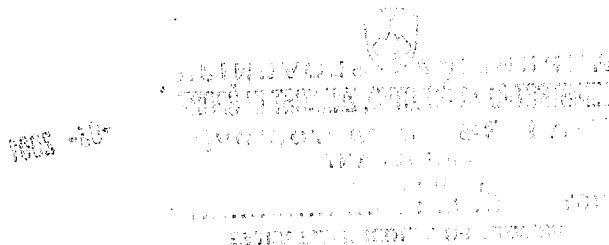
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**Foreword**

This European Standard has been prepared by CEN/TC 99 "Wallcoverings" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2001, and conflicting national standards shall be withdrawn at the latest by July 2001.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This European Standard specifies the requirements of cork panels to be used as wallcoverings within buildings. The standard contains provisions for the evaluation of conformity of the product. It also includes requirements for marking, packaging and labelling.

According to their constitution cork panels may be grouped into three types in accordance with the description in Table 1.

**Table 1 - Constitution of cork panels**

TYPE	Constitution of panels
<b>I</b>	Expanded cork (cork board)
<b>II</b>	Agglomerated composition cork
<b>III</b>	Layers with two or more of the preceding types

Cork panels may be covered with other complementary layers of decorative materials, e.g. decorative cork, with or without coloured applications.

## 2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references subsequent amendments to, or revisions of any of these publication apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 427	<i>Resilient floor coverings - Determination of the side length, squareness and straightness of tiles</i>
EN 434	<i>Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat</i>
EN 823	<i>Thermal insulating products for building applications - Determination of thickness</i>
EN 12089	<i>Thermal insulating products for building applications - Determination of bending behaviour</i>
EN 12105	<i>Resilient floor coverings - Determination of the moisture content of agglomerated composition cork</i>
EN 12149	<i>Wallcoverings in roll form - Determination of migration of heavy metals and certain other elements, of vinyl chloride monomer and of formaldehyde release</i>
ISO 7322	<i>Composition cork - Test methods</i>
ISO 8724	<i>Cork decorative panels – Specification</i>
EN ISO 9001	<i>Quality systems - Model for quality assurance in design, development, production, installation and servicing (ISO 9001:1994)</i>
EN ISO 9002	<i>Quality systems - Model for quality assurance in design, development, production, installation and servicing (ISO 9002:1994)</i>

## 3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply:

**3.1****cork**

protective layer of the cork oak tree (*Quercus suber* L.) which can be periodically removed from its trunk and branches to provide the raw material for cork products

**3.2****granulated cork**

fragments of cork obtained by grinding and/or milling raw or manufactured cork

**3.3****agglomerated composition cork**

product obtained from the agglutination of granulated cork with the addition of a binder not derived from cork cells

**3.4****expanded cork (cork board)**

product made from granulated cork expanded and bonded exclusively with its own natural binder exuded from cork cells by heating under pressure

**3.5****wallcovering**

product, supplied either in panel or roll form, for hanging onto internal walls or ceilings in buildings by means of an adhesive covering the whole of the interface between the wallcovering and the support

**3.6****cork wallcovering**

product mainly made from cork or agglomerated composition cork or a combination of these, supplied either in panel or roll form, whose main intended use is for indoor application

**3.7****batch**

defined quantity of some commodity manufactured or produced under conditions which are presumed uniform

**3.8****test specimen**

part of a sample prepared for a test

**4 Requirements**

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

NOTE Information on additional properties is given in annex B.

**5 Test methods****5.1 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 get one test result on a product property is given in Table 2.

## 5.2 Conditioning

Test specimens shall be conditioned before testing for at least 12 h at  $(23 \pm 5) ^\circ\text{C}$ . In case of dispute, they shall be conditioned before testing at  $(23 \pm 2) ^\circ\text{C}$  and  $(50 \pm 5) \%$  relative humidity, for at least 24 h. Before the determination of the moisture content no conditioning shall be done.

## 5.3 Testing

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

**Table 2 – Requirements**

Property	Requirements	Dimension (or mass) of test specimens	Test Method	Number of test specimens to get one result
<b>Side length</b>	maximum deviation from nominal dimensions <sup>a</sup> : $\pm 0,5 \%$	full panel	EN 427	5
<b>Squareness and Straightness</b> side $\leq 400$ mm side $> 400$ mm	maximum deviation: $\leq 0,5$ mm $\leq 1,0$ mm	full panel	EN 427	5
<b>Overall thickness</b> Type I:  Types II and III:	Thickness $\geq 10$ mm maximum deviation from nominal value $\pm 0,8$ mm Thickness $\geq 2$ mm maximum deviation from nominal value $\pm 0,3$ mm	full panel  full panel	EN 823  ISO 7322	5
<b>Bending strength</b> Type I	$\geq 130$ kPa	300 mm x 150 mm	EN 12089 method B	5
<b>Tensile strength</b> Types II and III	$\geq 200$ kPa	100 mm x 50 mm	ISO 7322	3
<b>Dimensional stability</b>	$\leq 0,4 \%$	full panel	EN 434	3
<b>Curling</b>	$\leq 6$ mm	full panel	EN 434	3
<b>Moisture content</b>	$\leq 7 \%$	100 mm x 100 mm	EN 12105	3
<b>Resistance of gluing</b>	shall not unglue	100 mm x 100 mm	ISO 8724 annex A	3
<b>Formaldehyde released</b>	$\leq 95$ mg/kg	50 mm x 25 mm (10 g to 15 g)	EN 12149 method C <sup>b</sup>	3

<sup>a</sup> See annex B

<sup>b</sup> With modifications given in annex A



## 6 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 of this European Standard.

## 7 Marking, labelling and packaging

Products conforming to the requirements of this 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 standard, i.e. EN 12781:2001;
- 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.

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