SLOVENSKI STANDARD
oSIST prEN 15102:2016

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Dekorativne stenske obloge - Zvitki

Decorative wallcoverings - Roll form

Dekorative Wandbekleidungen - Rollen

Revêtements muraux décoratifs - Rouleaux

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English Version

Decorative wallcoverings - Roll form

Revêtements muraux décoratifs - Rouleaux

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European Foreword

This document (prEN 15102:2016) has been prepared by Technical Committee CEN/TC 99 “Wallcoverings”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15102:2007+A1:2011.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

1 Scope

This European Standard applies to all forms of wallcovering products in roll form supplied for hanging onto internal walls, partitions or ceilings, by means of an adhesive, whose primary purpose is decorative. However, certain wallcovering products may confer minor sound absorption and thermal resistance properties.

It also provides for the evaluation of conformity and the assessment and verification of constancy of performance (AVCP) of products to the requirements of this standard.

It does not apply to wallcoverings whose primary purpose is structural or protective (e.g. vapour or moisture).

2 Normative references

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

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*

EN 12667, *Thermal performance of building materials and products — Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Products of high and medium thermal resistance*

EN 13238, *Reaction to fire tests for building products — Conditioning procedures and general rules for selection of substrates*

EN 13501-1, *Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests*

EN 13823, *Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item*

CEN/TC 15968, *Determination of extractable perfluorooctanesulfonate (PFOS) in coated and impregnated solid articles, liquids and fire fighting foams — Method for sampling, extraction and detection by LC-MS/MS or LC-MS*

CEN/TS 16516, *Construction products — Assessment of release of dangerous substances — Determination of emissions into indoor air*

EN ISO 354, *Acoustics — Measurement of sound absorption in a reverberation room (ISO 354)*

EN ISO 10456, *Building materials and products — Hygrothermal properties —Tabulated design values and procedures for determining declared and design thermal values (ISO 10456)*

EN ISO 11654, *Acoustics — Sound absorbers for use in buildings — Rating of sound absorption (ISO 11654)*

EN ISO 11925-2, *Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test (ISO 11925-2)*

EN ISO 14389, *Textiles — Determination of the phthalate content — Tetrahydrofuran method (ISO 14389)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
product group
range of products within defined limits of variability (defined by the manufacturer or a technical specification) of the product parameters and, if relevant, end-use parameters, for which the reaction to fire performance remains unchanged (does not get worse)

3.2
product parameter
aspect of a product (for example thickness, composition, density) which can vary and have an influence on the product's fire performance

3.3
end use application
real application of a product, in relation to all aspects that influence the behaviour of that product under different fire situations

Note 1 to entry: It covers aspects such as its quantity, its orientation, its position in relation to other adjacent products and its method of fixing (EN 13501-1)

3.4
use application parameter
aspect of the mounting and fixing arrangement of a product reflecting/simulating its end-use application (for example type of substrate, fixing method, position and type of joints) which can affect the fire performance

4 Product characteristics

4.1 Reaction to fire

If the manufacturer is required to make a declaration of the reaction to fire performance (i.e. if the wallcoverings is subject to regulations), the wallcoverings shall be classified in accordance with the requirements of EN 13501-1 when tested according to 5.1. The resulting class shall be declared either:

a) without the need for further testing (CWFT), as given in Table 1[1], if the wallcovering product is proved to meet the requirements of the class given therein or

b) based on testing of the wallcovering product according to the standards referred to in EN 13501-1, when the wallcovering product does not meet the requirements of Table 1 or where a higher class than the one in a) is sought.

If it is decided not to declare a reaction to fire performance, i.e. to place a product family on the market as a NPD, no test is required for this product family.

[1] Table is the same as given in the Decision of the Commission 2010/82/EU of 2010-02-09 (see OJEU L38 of 2010-02-11).

Table 1 — Classes of reaction to fire performance for decorative wall coverings in roll and panel form

Product [a]	Maximum mass per unit area (g/m^2)	Maximum thickness (mm)	Class [b]
Wallcoverings on cellulose fibre base	190	0,9	D-s3, d2
Wallcoverings on cellulose fibre base and polymer coated or printed	470	0,7	
Wallcoverings on a mixture of cellulose and polyester fibre base	160	0,3	
Wallcoverings on a mixture of cellulose and polyester fibre base and polymer coated or printed	410	0,5	
Wallcoverings on polymer coated fabric base	510	0,7	
Wallcoverings of woven textile with a backing consisting of cellulose fibre or cellulose and polyester fibre	450	0,8	
Wallcoverings of foamed PVC with a backing consisting of cellulose fibre or cellulose and polyester fibre	310	1,8	

[a] Products in accordance with present standard mounted on a substrate of at least class A2-s1,d0 with a minimum thickness 12 mm and with minimum density 800 kg/m^3 using starch, or starch/PVA, or cellulose/PVA adhesive applied at a maximum 200 g/m^2.

[b] Class as provided in Table 1 of the annex to Commission Decision 2000/147/EC.

When option b) is applied and where required by the test methods, the wallcovering product shall be tested in its end use conditions according to Annex A - extended application. In this case, the class declared shall be followed also by the associated mounting and fixing conditions (only if relevant for this class).

4.2 Formaldehyde

The wallcoverings shall be tested according to CEN/TS 16516.

If formaldehyde is not added during manufacture and if the raw materials are certified by the supplier as not containing this substance, testing may not be necessary.

Other substances could be tested according to the methods proposed in Annex B.

4.3 Other dangerous substances

4.3.1 General

National regulations on dangerous substances, other than those already covered in other clauses of this standard, may require verification and declaration on release, and sometimes content, when construction products covered by this standard are place on those markets. In the absence of European harmonised test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.

NOTE An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through:

http://ec.europa.eu/enterprise/construction/cpd-ds/

4.3.2 Heavy metals and other elements

4.3.2.1 Requirements

The migration of heavy metals and specific elements from the wallcovering product, expressed as mg/kg of wallcovering, shall not exceed the values given in Table 2 (after correction according to 4.3.2.2) when measured in accordance with Test A of EN 12149:1997. If none of these substances are added during the wallcovering manufacturing process, and all the raw materials are declared by the supplier to meet the requirements of Table 2, then testing may not be necessary.

4.3.2.2 Interpretation of results

The analytical results on migration of heavy metals and specific elements from the wallcovering product, obtained from the tests specified in EN 12149:1997 shall be corrected by subtracting the value of the analytical correction factors given in Table 3 in order to obtain a corrected analytical result.

The wallcovering product shall be considered to meet the requirements of this European Standard if the corrected analytical result does not exceed the limits indicated in Table 2.

Given the precision of the methods specified in this European Standard, the corrected analytical result to take into account the results of inter-laboratory tests shall be used.

EXAMPLE Analytical result for lead: 120 mg/kg.

Corresponding analytical correction in Table 3: 30 %.

Corrected analytical result = 120 − (120 × 30)/100 = 120 − 36 = 84 mg/kg. This is regarded as satisfying the requirements of the standard (i.e. lead ≤ 90 mg/kg).

Table 2 — Maximum migration of heavy metals and specific elements of wallcoverings products

Heavy metal or element	Symbol	Maximum migration in mg/kg
Antimony	Sb	Declared value
Barium	Ba	500
Chromium	Cr	60
Mercury	Hg	20
Selenium	Se	165

Table 3 — Analytical correction factor

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical correction factor (in percentage)	60	60	30	30	30	30	50	60

4.3.2.3 Vinyl chloride monomer

The release of vinyl chloride monomer (VCM) from the wallcovering product shall be declared when subject to regulatory requirement and may be declared otherwise. The maximum VCM release when tested to Test B of EN 12149:1997 shall not exceed 0,2 mg/kg of wallcovering.

If no polyvinyl chloride or products containing vinyl chloride are used during the manufacturing process of the wallcovering product or if the raw materials used are declared by the supplier to contain less than 1 mg/kg of vinyl chloride monomer, then testing on VCM release is not necessary.