



SLOVENSKI STANDARD
SIST EN 14716:2005
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Napeti stropovi – Zahteve in preskusne metode

Stretched ceilings - Requirements and test methods

Spanndecken - Anforderungen und Prüfverfahren

Plafonds tendus - Exigences et méthodes d'essai

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Stretched ceilings - Requirements and test methods

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Foreword

This document (EN 14716:2004) has been prepared by Technical Committee CEN/TC BT/TF 119 “Stretched ceilings”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

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

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

It does not supersede any existing standard.

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

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1 Scope

This document specifies the characteristics, specifications and test methods for stretched ceilings made up of single or multi-layer sheets, coated fabrics or fabrics made up of coated or monofilament yarn with a fastening system.

It also specifies the method of conformity assessment for stretched ceilings.

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.

EN 1875-3, *Rubber- or plastics-coated fabrics - Determination of tear strength. Part 3: Trapezoidal method.*

EN 12149, *Wall coverings in roll form - Determination of migration of heavy metals and certain other elements, of vinyl chloride monomer and of formaldehyde release.*

EN 12280-1, *Rubber- or plastics-coated fabrics - Accelerated ageing tests - Part 1: Heat ageing.*

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 test data from reaction to fire tests.*

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

EN ISO 105-B02, *Textiles - Tests for colour fastness - Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:1994, including Amendment 1:1998).*

EN ISO 527-1, *Plastics - Determination of tensile properties - Part 1: General principles (ISO 527-1:1993 including Corr 1:1994).*

EN ISO 527-3, *Determination of tensile properties - Part 3: Test conditions for films and sheets (ISO 527-3:1995).*

EN ISO 846, *Plastics - Evaluation of the action of microorganisms (ISO 846:1997).*

EN ISO 1182, *Reaction to fire tests for building products - Non-combustibility test (ISO 1182:2002).*

EN ISO 1421, *Rubber- or plastics-coated fabrics - Determination of tensile strength and elongation at break (ISO 1421:1998).*

EN ISO 1716, *Reaction to fire tests for building products - Determination of the heat of combustion (ISO 1716:2002).*

EN ISO 2286-2, *Rubber- or plastics-coated fabrics - Determination of roll characteristics - Part 2: Methods for determination of total mass per unit area, mass per unit area of coating and mass per unit area of substrate (ISO 2286-2:1998).*

EN ISO 9001, *Quality management systems - Requirements (ISO 9001:2000).*

EN ISO 11925-2, *Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source (ISO 11925-2:2002)*.

ISO 2528:1995, *Sheet materials - Determination of water vapour transmission rate - Gravimetric (dish) method*.

3 Terms and definitions

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

3.1

stretched ceilings

ceiling coverings comprising a continuous area obtained from one width or assembled widths kept under tension at its edges by a fastening system permitting dismantling and re-assembly

These widths may be single or multi-layered sheets, coated fabrics or fabrics made up of coated yarn or monofilaments. Stretched ceilings may be perforated or not

3.2

product family

total range of products within specific variability limits (defined by the manufacturer or a technical specification) of the product parameters and, if appropriate, of the final use parameters for which the specified safety characteristics do not change (do not deteriorate)

This means that the test results obtained for one product in the family remain valid for all the products in the family

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3.3

edge profile

element fixed at the periphery of the ceiling to keep the ceiling stretched

3.4

anchoring device

element connecting the stretched ceiling to the edge profile

4 Requirements relating to sheets and coated fabrics or fabrics made up of coated yarn or monofilaments

4.1 Essential requirements

4.1.1 Reaction to fire

4.1.1.1 Preparation and conditioning of test pieces

The test pieces shall be conditioned prior to the test in accordance with EN 13238.

4.1.1.2 Ignitability test

The ignitability test shall be carried out in accordance with EN ISO 11925-2.

The flame shall be applied to the surface of the test piece fixed on the test piece holder by means of small pins incorporated in the surface of the U-shaped frame

4.1.1.3 SBI "Single Burning Item" test

Carry out the reaction to fire test in accordance with EN 13823.

The stretched ceilings shall be tested perpendicularly in the test piece holder trolley for the SBI comprising one small wing $(550 \pm 5) \text{ mm} \times (1\,500 \pm 5) \text{ mm}$ and one large wing $(1\,000 \pm 5) \text{ mm} \times (1\,500 \pm 5) \text{ mm}$.

- a) In the case of single or multi-layered sheets, take $850 \text{ mm} \times 1\,800 \text{ mm}$ of the sheet to make the small wing and $1\,300 \text{ mm} \times 1\,800 \text{ mm}$ to make the large wing. Stretch the sheet in the transverse direction across a calcium silicate panel with a tensile force of 30 daN/m determined in accordance with EN ISO 527-3.

There shall be an air gap of 40 mm between the stretched ceiling and the substrate when assembling the ceiling. This air gap is obtained by means of a calcium silicate frame of desired thickness fixed to the perimeter of the substrate of the small and the large wing.

The final configuration may be obtained by pinching the stretched ceiling at the back of the substrate by means of an aluminium track and a PVC ring. Adequate tension shall be applied to obtain a satisfactory degree of flatness and no creasing over the whole of the exposed surface (see Figure A.1 in Annex A).

- b) In the case of coated fabrics or those made of coated yarn or monofilaments, take a $1\,500 \text{ mm} \times 1\,500 \text{ mm}$ test piece. Fix the test piece to a metallic frame (see Figures A.2, A.3 and A.4 in Annex A). This frame comprises an assembly of stainless steel tubes of rectangular cross-section forming two perpendicular wings, one small and one large.

Attach the test piece to the peripheral members of the frame by means of the steel pins. Prior to the test, the test piece shall be adequately stretched and flat so that no more than 30% of the total exposed surface shrinks by more than 10 mm from the coplanar vertical plane at the back of the U-profile

Then place the frame against the U-profile on the test piece holder trolley. To be representative of the final use, conduct the test with a ventilated space 80 mm wide at the back of the test piece in accordance with EN 13823.

Attach two calcium silicate walls made up of one small wing of $(580 \pm 5) \text{ mm} \times (1\,500 \pm 5) \text{ mm}$ and one large wing of $(1\,080 \pm 5) \text{ mm} \times (1\,500 \pm 5) \text{ mm}$ vertically 80 mm from the test piece. The sides furthest away from the angle and the spaces behind each wing shall be left open.

4.1.1.4 Requirements

If the manufacturer wishes to make a declaration of the reaction to fire performance (i.e. if the stretched ceiling is subject to regulations), the stretched ceilings shall be subjected to the test and be classified in accordance with the requirements of EN 13501-1 and the resulting class shall be declared.

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

4.1.2 Release of other dangerous substances

4.1.2.1 Heavy metals and other elements

4.1.2.1.1 Requirements

The migration of heavy metals and other elements, expressed in mg/kg of stretched ceiling, shall not exceed the values given in Table 1 (after correction as specified in 4.1.2.1.2) when measured in accordance with test A in EN 12149.

If none of these substances is added during manufacture and if the raw materials are certified by the supplier as not containing these substances, the test is not necessary.

4.1.2.1.2 Interpretation of results

The analytical results obtained in the tests specified in EN 12149 shall be corrected by subtracting the analytical correction factors given in Table 2 to obtain a corrected analytical result.

The stretched ceilings are considered as satisfying the requirements of this document if the corrected analytical result is equal to or less than the limits indicated in Table 1.

NOTE 1 Given the reliability of the methods specified in this EN 12149, it is necessary to use the corrected analytical results to take into account the results of the interlaboratory tests (see Annex D of EN 71-3).

Example: analytical result for lead: 120 mg/kg.

Corresponding analytical correction in Table 2: 30 %.

Corrected analytical result = $120 - (120 \times 30) / 100 = 120 - 36 = 84$ mg/kg. This is considered to meet the requirements of the standard (lead: 90 mg/kg).

NOTE 2 The measuring methods used in EN 12149 are derived directly from EN 71-3 on the safety of toys. Annex D of EN 71-3, in particular D.4 "Statistical uncertainty of the test procedure and interpretation of results", justifies the introduction of a correction factor.

Table 1 — Maximum migration of heavy metals and other elements

Heavy metal or element	Symbol	Maximum migration in mg/kg of stretched ceiling
Antimony	Sb	60
Arsenic	As	25
Barium	Ba	500
Cadmium	Cd	25
Chromium	Cr	60
Lead	Pb	90
Mercury	Hg	20
Selenium	Se	165

Table 2 — 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

4.1.2.2 Vinyl chloride monomer

The maximum content of vinyl chloride monomer shall be less than 10 mg/kg measured as described in test B of EN 12149.

If vinyl chloride or the products containing vinyl chloride are not added during manufacture and if the raw materials are certified by the supplier as containing less than 10 mg/kg of vinyl chloride, the test is not necessary.

4.1.3 Water vapour permeability

Stretched ceilings in the form of single or multi-layered sheets and full coated fabrics have a water vapour permeability of < 50 g/m²/24 h (measured in accordance with the conditions of procedure B in ISO 2528) which prevents condensation forming in the plenum.

Stretched ceilings with perforations or cut-outs and full coated fabrics present no risk of condensation when the circulation of air is ensured either through the product or in the attachment system; Therefore, this requirements does not apply to them.

4.2 Requirements of single or multi-layered sheets

Stretched ceilings made up of single or multi-layered sheets described in this document shall meet the requirements specified in Table 3 when they are subjected to the tests indicated.

Table 3

Characteristics	Units	Requirements	Test method
Mass per unit area	%	Nominal value ± 10	Annex B
Thickness	%	Nominal value ± 10	EN ISO 2286-3 with a pressure of 2 kPa
Colour fastness to light	-	≥ 6	EN ISO 105 – B 02
Dimensional stability after exposure to humidity ^a	%	≤ 1 in each direction	Annex C
Resistance of the assembly	daN	≥ 2 x operating stress	Annex D
Heat shrinkage	%	≤ 4, 5 in each direction	Annex E
Breaking strength	N/mm ²	longitudinal ≥ 12 transverse ≥ 10	EN ISO 527 – 3 with a type 2 test piece
Elongation at break	%	longitudinal ≥ 140 transverse ≥ 150	
Susceptibility to the development of micro-organisms ^b		Declare the type and quantity of bactericide or fungicide applied	
Weldability		Q ≥ 0,5	Annex F

^a The test may be carried out on the basis of the final use of the ceiling (example: chlorinated atmosphere).

^b Only for stretched ceilings used in humid conditions.

4.3 Requirements of coated fabrics and fabrics made up of coated yarn or monofilaments

Stretched ceilings made of the coated fabrics of coated yarn or monofilaments described in this document shall meet the requirements specified in Table 4, when subjected to the tests indicated.

Table 4 — Requirements of coated fabrics and fabrics made up of coated yarn or monofilaments

Characteristics	Units	Requirements		Test method
		All fabrics except those containing at least 40 % monofilaments	Fabrics containing at least 40 % monofilaments	
Mass per unit area	%	Nominal value \pm 10		EN ISO 2286-2
Colour fastness to light	-	> 6		EN ISO 105-B 02
Dimensional stability after exposure to humidity ^{a b}	%	< 1 in each direction		Annex C
Resistance of the assembly	daN/5 cm	> 20	> 8	EN ISO 1421
Dimensional stability after exposure to heat	%	< 1 in each direction	< 10 °C to 60 °C	EN 12280-1 (30 min)
Tensile strength	daN/5 cm	> 50	> 10	EN ISO 1421
Tear strength	daN	> 10	> 3	EN 1875-3
Susceptibility to the development of microorganisms ^b	-	Method A: 0 Method B: 0		EN ISO 846

^a The test may be carried out on the basis of the final use of the ceiling (example: chlorinated atmosphere).

^b Only for stretched ceilings used in humid conditions.

4.4 Requirements of attachment systems (edge profiles and anchoring devices)

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4.4.1 Suitability for dismantling and re-assembly

Dismantling and re-assembly of the stretched ceiling constructed according to the state of the art shall not change the intrinsic characteristics.

4.4.2 Mechanical strength

The stretched ceiling and its attachment system shall have a strength equivalent to the strength of the assembly specified for the stretched ceiling in Tables 3 and 4.

5 Assessment of conformity

5.1 General

The conformity of the stretched ceiling to the requirements of this document or to the declared values (including classes) shall be demonstrated by:

- initial type tests,
- factory production control; carried out by the manufacturer, including product verification (see Annex G).

If the tests have been carried out by the supplier of single or multi-layer sheets, coated fabrics or fabrics made up of coated yarn or monofilaments, the ceiling manufacturer does not necessarily have to repeat the tests.

For the tests, the stretched ceilings may be grouped by family (see 3.2) if it may be regarded that the selected characteristic is common to all the stretched ceilings belonging to this family.

5.2 Type tests

5.2.1 Initial type tests

The initial type tests shall be carried out to demonstrate conformity to this document. The tests carried out beforehand in conformity to the requirements of this document (same product, same characteristic(s), test method, sampling, attestation of conformity system, etc.) may be taken into account. In addition, the initial type tests shall be carried out at the beginning of production of any new product type (unless it is a member of the same family) or at the beginning of a new production method (which might have been able to affect the properties concerned).

If there is a change in the product, raw material or the supplier of one of the components or the manufacturing process (with the reservations connected to the definition of a family) that would significantly modify one or more characteristics, the type tests shall be repeated for the appropriate characteristic(s).

5.2.2 Sampling, tests and conformity criteria

The number of stretched ceiling samples to be submitted to the test (or to assess) shall meet the requirements specified in the test standards (see Table 5).

Table 5 — Number of samples and conformity criteria for the initial type tests

Characteristic	Requirements	Test method	Number of samples	Conformity criteria
Reaction to fire	4.1.1	EN 13823 EN ISO 1716 EN ISO 1182 EN ISO 11925-2	1 sample 30 m long and a minimum of 1,30 m wide	See classification in EN 13501-1
Release of dangerous substances				
- heavy metals	4.1.2.1	EN 12149		4.1.2 Table 1
- vinyl chloride monomer	4.1.2.2	EN 12149		< 10 mg/kg
Water vapour permeability	4.1.3	ISO 2528		< 50 g/m ² /24 h
Other characteristics specified in Tables 3 and 4	Tables 3 and 4			Tables 3 and 4

The results of all the type tests shall be recorded and kept by the manufacturer for at least 5 years.

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6 Marking and data sheet

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6.1 Marking of the product

The stretched ceilings covered by this document and/or their packaging shall carry a clear and indelible mark placed by the manufacturer on the stretched ceiling or on the packaging with the following information:

- the number and date of this standard, i.e. EN 14716:2004;
- the identification of the manufacturer or the supplier;
- the product name, colour and lot number;

If the requirements of Annex ZA.3 give the same information as this clause, it is considered that the requirements of this clause are met.

6.2 Data sheet

All the technical characteristics of the stretched ceiling conforming to this document shall be given in a data sheet.