EESTI STANDARD

EVS-EN 14716:2005

Profileeritud laed. Nõuded ja katsemeetodid

Stretched ceilings - Requirements and test methods

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EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA	NATIONAL FOREWORD
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Käsitlusala: 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.	**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.

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of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.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

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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.*

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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

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