



SLOVENSKI STANDARD
SIST ENV 13419-3:2000
01-november-2000

; fUXVYb]dfc]nj cX]!8 c`c Yj Ub^Ya]g]^ \ `Udb] `cf[Ubg_] `gbcj]!' "XY.
Dcghcd_]j ncf Yb^U]b \ fUb^b^Uj ncfWj `h^f`df]dfUj UdfYg_i yUbWj

Building products - Determination of the emission of volatile organic compounds - Part 3:
Procedure for sampling, storage of samples and preparation of test specimens

Bauprodukte - Bestimmung der Emission von flüchtigen organischen Verbindungen - Teil
3: Verfahren zur Probenahme, Lager

Produits de construction - Détermination des émissions de composés organiques volatils
- Partie 3: Procédure d'échantillonnage, stockage des échantillons et préparation des
éprouvettes d'essai

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Ta slovenski standard je istoveten z: ENV 13419-3:1999

ICS:

13.040.99	Drugi standardi v zvezi s kakovostjo zraka	Other standards related to air quality
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EUROPEAN PRESTANDARD
PRÉNORME EUROPÉENNE
EUROPÄISCHE VORNORM

ENV 13419-3

August 1999

ICS 13.040.99

English version

Building products - Determination of the emission of volatile organic compounds - Part 3: Procedure for sampling, storage of samples and preparation of test specimens

Produits de construction - Détermination des émissions de composés organiques volatils - Partie 3: Procédure d'échantillonnage, stockage des échantillons et préparation des éprouvettes d'essai

Bauprodukte - Bestimmung der Emission von flüchtigen organischen Verbindungen - Teil 3: Verfahren zur Probenahme, Lagerung der Proben und Vorbereitung der Prüfstücke

This European Prestandard (ENV) was approved by CEN on 6 May 1999 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Prestandard has been prepared by Technical Committee CEN/TC 264 "Air quality", the secretariat of which is held by DIN, and in co-operation with CEN/TC 134 "Floor coverings" (Part 3, annex A) and CEN/TC 139 "Paints and varnishes" (Part 3, annex B).

This prestandard consists of four parts:

- Part 1: Emission test chamber method;
- Part 2: Emission test cell method;
- Part 3: Procedure for sampling, storage and preparation of test specimens.
- Part 4: Determination of VOCs; active sampling on Tenax TA, thermal desorption and gas chromatographic method

Part 4 is under preparation within ISO/TC 146. It is intended that, after the final voting stage, the CEN prestandard (Parts 1-3) will be taken over by ISO and the ISO standard (Part 4) will be taken over by CEN.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this European Prestandard: 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

Studies of the emission of volatile organic compounds from building materials in test chambers or cells require proper handling of the product prior to testing, and during the testing period.

This prestandard specifies sampling of the product to be tested, the transport conditions and the preparation of test specimens.

NOTE Depending on the non-homogeneity of the product, it can be necessary to make measurements on different test specimens to determine the specific emission rate.

Procedures for sampling and specimen preparation are given in annexes A (flooring materials and wall coverings) and B (paints and varnishes) of this part of the prestandard.

2 Normative references

This European prestandard 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 publications apply to this European Standard only when incorporated in it by amendment or revisions. For undated references the latest edition of the publication referred to applies.

- ISO 2808, Paints and varnishes - Determination of film thickness (ISO 2808:1997);
- EN ISO 1513, Paints and varnishes - Examination and preparation of samples for testing.

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3 Sampling the product and transport and storage of sample

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3.1 Sampling of the product to be tested

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The product to be tested shall have been manufactured, packaged and handled in the normal manner. Building products sampled on site shall be packaged immediately and sent to the laboratory with the shortest possible delay.

3.2 Sample packaging and transport

Samples shall be thoroughly protected from chemical contamination or any physical exposure (e.g. heat and humidity).

For solid materials, this can usually be achieved by wrapping each specimen separately in aluminium foil and in a polyethylene bag or alternatively, in aluminised packaging (shiny side out) lined with polyethylene or clear polyvinyl fluoride film. Liquid products shall be shipped in unopened cans, tubes, etc.

NOTE Transportation of collected samples can affect the emission characteristics of the material. The possible effects of temperature are of particular concern.

3.3 Storage of the sample prior to starting the testing

It is recommended to start the emission testing of the product immediately after the sample has been taken from the manufacturer and transported to the testing laboratory. It can however in many cases be necessary to store the sample in the laboratory before starting the measurement procedure. In order to avoid the effect of ageing of the product, the sample shall be wrapped in an airtight, inert package during any period of storage. It is recommended not to store the sample more than 4 weeks before starting the emission testing procedure.

4 Preparation of test specimens

The sample shall be removed from the transportation package and a test specimen prepared when the emission testing procedure is ready to begin. The time of unpacking the sample shall be regarded as the starting time of the emission test ($t = 0$ h).

Examples of preparation of test specimens of certain products are described in annexes A (flooring products and wall coverings) and B (paints and varnishes) of this part of the prestandard.

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Annex A (normative)

Flooring products and wall coverings - Procedure for sampling and test specimen preparation

This method covers only newly manufactured, prefabricated, unlaidd surface covering flooring materials and wall coverings. In normal use, these products are combined with adhesives, but this method only concerns the flooring or wall covering product itself.

A1 Selection of samples

The product to be tested shall have been manufactured, packed and handled in the normal manner.

A1.1 Selection of products in rolls

A1.1.1 Take the sample from a packed roll, of such an age as to allow test preparations to be made as described in A2 (below).

A1.1.2 Take the sample from a position 2 m into the roll.

A1.1.3 The sample shall have an area of 1 m² (or more if the test method requires a larger sample) and be taken from the middle of the roll.

After taking the sample, roll it along the normal direction of the production roll. Secure the roll with staples, wrap it in aluminium foil, place it in an unprinted, air tight polyethene bag and seal the bag. Each bag shall contain only one sample.

A1.1.4 Not more than 1 h shall elapse from the time of selecting the sample to placing it in the polyethene bag.

A1.1.5 Pack the samples carefully and send them to the testing laboratory with the shortest possible delay.

Label the samples on the outside of the bag with details of the type of product, week of manufacture, batch number and bale number.

A1.2 Selection of tiles, panels etc.

A1.2.1 Send unopened standard packages to the testing laboratory.

A1.2.2 Mark the samples with details of the type of product, week of manufacture and batch number.

A2 Preparation of test specimens

Test specimens shall be prepared not later than 4 weeks after manufacture.

A2.1 Selection of test specimens

A2.1.1 Products in rolls

Unpack the sample roll, prepared as in A1.1.3. Select an appropriate area of the product at least 200 mm from the edge of the short side and cut out a sample.

A2.1.2 Other products

Tiles and panels etc. are taken from the middle of the package and assembled side by side according to the recommendations from the manufacturer.

A2.2 Sealing procedure**A2.2.1 Test specimens not bonded to substrate**

Secure the underside of the test specimen to a sheet of glass or stainless steel, or place the test specimens back-to-back. Seal the edges as well with aluminium foil or frames.

A2.2.2 Tongued and grooved flooring

For adhesive-bonded tongued and grooved flooring follow the instructions of the manufacturer in respect of type of adhesive, adhesive volume, method of application and waiting time before joining the pieces.

A2.2.3 Test specimens adhesive-bonded to a substrate

Adhesive-bond the test piece to an appropriate subfloor substrate of the same size. Seal the edges and the underside as well with aluminium foil or frames. Follow the instructions of the manufacturer in respect of type of adhesive, adhesive volume, method of application and waiting time before bonding the test specimen to the substrate.

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