

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

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

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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.



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

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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.

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.

3 Sampling the product and transport and storage of sample

3.1 Sampling of the product to be tested

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.