



**SLOVENSKI STANDARD**  
**SIST EN 17886:2024**

**01-julij-2024**

---

**Toplotnoizolacijski izdelki - Vrednotenje odpornosti proti razvoju plesni -  
Laboratorijska preskusna metoda**

Thermal insulation products - Assessment of the susceptibility to mould growth -  
Laboratory test method

Laborprüfverfahren - Bewertung der Anfälligkeit von Wärmedämmprodukten für  
Schimmelbildung

Méthode d'essai de laboratoire - Évaluation de la résistance des produits isolants  
thermiques au développement de moisissures

**Ta slovenski standard je istoveten z: EN 17886:2023**

[SIST EN 17886:2024](https://standards.iteh.ai/catalog/standards/sist/407074d6-52cc-46c2-a7c7-b0708415870/sist-en-17886-2024)

<https://standards.iteh.ai/catalog/standards/sist/407074d6-52cc-46c2-a7c7-b0708415870/sist-en-17886-2024>

**ICS:**

91.120.10	Toplotna izolacija stavb	Thermal insulation of buildings
-----------	--------------------------	------------------------------------

**SIST EN 17886:2024**

**en,fr,de**



EUROPEAN STANDARD

EN 17886

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2023

ICS 91.120.10

English Version

## Thermal insulation products - Assessment of the susceptibility to mould growth - Laboratory test method

Produits isolants thermiques - Évaluation de la sensibilité au développement de moisissures - Méthode d'essai de laboratoire

Wärmedämmstoffe - Bewertung der Anfälligkeit für Schimmelpilzwachstum - Laborprüfverfahren

This European Standard was approved by CEN on 8 October 2023.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

# Document Preview

[SIST EN 17886:2024](https://standards.iteh.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024)

<https://standards.iteh.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024>



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

<b>Contents</b>	<b>Page</b>
European foreword.....	3
Introduction .....	4
1 Scope.....	5
2 Normative references.....	5
3 Terms and definitions .....	5
4 Principle .....	6
5 Test materials and apparatus.....	6
5.1 Fungal species .....	6
5.2 Reagents .....	6
5.3 Apparatus.....	7
6 Sampling of the insulating products.....	8
7 Insulating product specimens .....	8
7.1 Number of test specimens.....	8
7.2 Preparation of the test specimens .....	8
7.3 Observation of the test specimens at delivery .....	8
8 Control specimens .....	8
9 Procedure.....	9
9.1 Sterilization by ionizing radiation .....	9
9.2 Inoculation.....	9
9.2.1 Preparation of the spore suspension.....	9
9.2.2 Determining the viability of the spores inoculated at the beginning of the test.....	10
9.2.3 Inoculation of the insulation specimens and of the control specimens .....	10
9.3 Estimation of the number of colony-forming units (CFU) in the test specimens .....	10
9.4 Determination of the moisture content of test specimens.....	11
10 Incubation.....	11
11 Examination of the test specimens after incubation .....	12
11.1 Visual surface examination .....	12
11.2 Quantitative analysis (determination of CFU).....	13
12 Validity of the test .....	14
13 Determination of results .....	14
14 Interpretation of results.....	14
15 Report.....	14
Annex A (informative) Mould test method – Guidelines to interpret the test results.....	16

## European foreword

This document (EN 17886:2023) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

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 May 2024, and conflicting national standards shall be withdrawn at the latest by May 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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

**iTeh Standards**  
**(<https://standards.itih.ai>)**  
**Document Preview**

[SIST EN 17886:2024](https://standards.itih.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024)

<https://standards.itih.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024>

**EN 17886:2023 (E)**

## **Introduction**

Insulation materials used in buildings can be subjected to high humidity either periodically or permanently and thus be affected by mould growth.

Occurrence and intensity of mould growth depend on humidity, temperature, type of substrate, oxygen, and ambient spore concentration. The main factor that affects the growth of mould is an increased availability of moisture on the surface of materials.

**iTeh Standards**  
**(<https://standards.iteh.ai>)**  
**Document Preview**

[SIST EN 17886:2024](https://standards.iteh.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024)

<https://standards.iteh.ai/catalog/standards/sist/40101dd6-52ee-4e62-a7c4-a818f84138fc/sist-en-17886-2024>