EHITUSLIKUD SOOJUSISOLATSIOONITOOTED. KASUTUSKOHAS VALMISTATAVAD MINERAALVILLATOOTED (MW). OSA 1: PUISTETOODETE PAIGALDUSEELNE SPETSIFIKATSIOON

Thermal insulation products for buildings - In-situ formed loose-fill mineral wool (MW) products - Part 1: Specification for the loose-fill products before installation

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 14064-1:2018 sisaldab Euroopa standardi EN 14064-1:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 14064-1:2018 consists of the English text of the European standard EN 14064-1:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 31.10.2018.	Date of Availability of the European standard is 31.10.2018.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

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English Version

Thermal insulation products for buildings - In-situ formed loose-fill mineral wool (MW) products - Part 1: Specification for the loose-fill products before installation

Produits isolants thermiques pour le bâtiment - Isolation thermique formée sur chantier à base de laine minérale (MW) - Partie 1: Spécification des produits en vrac avant l'installation

Wärmedämmstoffe für Gebäude - An der Verwendungsstelle hergestellte Wärmedämmung aus Mineralwolle (MW) - Teil 1: Spezifikation für Schüttdämmstoffe vor dem Einbau

This European Standard was approved by CEN on 2 March 2018.

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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.

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

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European foreword

This document (EN 14064-1:2018) 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 April 2019 and conflicting national standards shall be withdrawn at the latest by July 2020.

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.

This document supersedes EN 14064-1:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

For relationship with EU Regulation(s), see informative Annex ZA, which is an integral part of this document.

EN 14064-1:2018 includes the following significant technical changes with respect to EN 14064-1:2010:

— Improved clarification regarding how to determine lambda value in the application: Annex A has been totally revised and Annex C has been revised to be more precise;

— New ways to assess settlement in cavity wall application and then a new Annex J has been defined;

— Clarification of Annex H;

— Specimen preparation method for coverage and density measurement: Annex I has been totally revised;

— Introduction of glowing combustion;

— New Annex ZA.

EN 14064, *Thermal insulation products for buildings — In situ formed loose-fill mineral wool (MW) products*, consists of two parts which form a package. The first part (this European Standard), which is the harmonized part satisfying the mandate, Construction Product regulation (CPR) and is the basis for the CE marking, covers the products, which are placed on the market. The second part, which is the non-harmonized part, covers the specification for the installed products. Both parts need to be used for the application of the insulation product in the end-use applications covered by EN 14064.

This European Standard contains twelve annexes:

— Annex A (normative) Determination of the declared values of thermal resistance and thermal conductivity

— Annex B (normative) Factory production control

— Annex C (normative) Specimen preparation for thermal resistance and thermal conductivity test

— Annex D (normative) Specimen preparation for water absorption test

— Annex E (normative) Specimen preparation for airflow resistivity test

— Annex F (normative) Testing for reaction to fire of products

— Annex G (normative) Testing for reaction to fire of products in standardized assemblies simulating end-use applications

— Annex H (normative) Rules for creating performance charts for loose-fill insulation and examples of performance charts

— Annex I (normative) Specimen preparation method for coverage and density measurement

— Annex J (normative) Determination of settlement for blown loose fill insulation

— Annex K (informative) Masonry cavity walls – Method for determining suitable spacing for blowing holes

— Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011

This European Standard is one of a series for mineral wool, expanded clay, expanded perlite, exfoliated vermiculite, polyurethane/polyisocyanurate, cellulose and bound expanded polystyrene *in situ* formed insulation products used in buildings, but this standard may be used in other areas where appropriate.

The reduction in energy used and emissions produced during the installed life of insulation products exceeds by far the energy used and emissions made during the production and disposal processes.

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

1 Scope

This document specifies the requirements for blown and injected loose-fill mineral wool products for *in situ* installation in lofts, masonry cavity walls and frame constructions.

This document is a specification for the insulation products before installation. It describes the product characteristics and includes procedures for testing, marking and labelling.

This document does not specify the required level of a given property to be achieved by a product to demonstrate fitness for purpose in a particular application. The levels required for a given application are to be found in regulations or non-conflicting standards.

NOTE To avoid water penetration in masonry walls special tests adjusted to local climate might be needed.

This document does not cover factory made mineral wool (MW) insulation products or *in situ* products intended to be used for the insulation of building equipment and industrial installations.

Products with a declared thermal resistance lower than 0,25 m^2·K/W or a declared thermal conductivity greater than 0,060 W/(m·K) at 10 °C are not covered by this document.

This document does not cover products intended for airborne sound insulation and for acoustic absorption applications.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 823, *Thermal insulating products for building applications - Determination of thickness*

EN 1609, *Thermal insulating products for building applications - Determination of short term water absorption by partial immersion*

EN 12667, *Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance*

EN 13172, *Thermal insulation products - Evaluation of conformity*

EN 13501-1, *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

EN 13820, *Thermal insulating materials for building applications - Determination of organic content*

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

EN 15715, *Thermal insulation products - Instructions for mounting and fixing for reaction to fire testing - Factory made products*

EN 16516:2017, *Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air*

EN 16733, *Reaction to fire tests for building products - Determination of a building product's propensity to undergo continuous smouldering*

EN 29053, *Acoustics - Materials for acoustical applications - Determination of airflow resistance (ISO 9053)*

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

EN ISO 1716, *Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value) (ISO 1716)*

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

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1.1
mineral wool
insulation material having a woolly consistency, manufactured from molten rock, slag or glass

3.1.2
blowing hole
hole, cut or formed, in a masonry cavity wall or frame construction, through which the mineral wool is blown

3.1.3
class
combination of two levels of the same property between which the performance shall fall

3.1.4
coverage
mass of insulation per unit area

3.1.5
frame construction
walls with wood or metal studs, sloping roof with insulation between rafters

3.1.6
level
given value, which is the upper or lower limit of a requirement, where the level is given by the declared value of the characteristic concerned

3.1.7
performance chart
table giving thickness and coverage requirements for different values of declared thermal resistance

3.1.8
settlement
decrease of installed insulation thickness in lofts or height in cavities and frame constructions with time, expressed as a percentage of the initial installed thickness or installed height