

STN	Tepelnoizolačné výrobky pre budovy Výrobky zo sypanej minerálnej vlny (MW) vytvárané na stavbe Časť 1: Špecifikácia sypkých výplňových výrobov pred zabudovaním	STN EN 14064-1 72 7213
------------	--	--

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

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 03/19

Obsahuje: EN 14064-1:2018

Oznámením tejto normy sa od 31.07.2020 ruší
STN EN 14064-1 (72 7213) z augusta 2010

128261

EUROPEAN STANDARD

EN 14064-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2018

ICS 91.100.60

Supersedes EN 14064-1:2010

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.

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, 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 United Kingdom.



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

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

EN 14064-1:2018 (E)

Contents	Page
European foreword	5
1 Scope	7
2 Normative references	7
3 Terms, definitions, symbols and abbreviations	8
3.1 Terms and definitions	8
3.2 Symbols and abbreviations	9
4 Characteristics	10
4.1 General	10
4.2 For all applications	10
4.2.1 Thermal conductivity – Thermal resistance	10
4.2.2 Weight of the sale unit	11
4.2.3 Settlement	11
4.2.4 Reaction to fire	12
4.2.5 Durability characteristics	12
4.3 For specific applications	13
4.3.1 General	13
4.3.2 Airflow resistivity	13
4.3.3 Water absorption	13
4.3.4 Water vapour diffusion resistance	13
4.3.5 Reaction to fire of product in standardized assemblies simulating end-use applications	13
4.3.6 Release of dangerous substances	13
4.3.7 Continuous glowing combustion	14
5 Test methods	14
5.1 Sampling	14
5.2 Conditioning	14
5.3 Testing	14
5.3.1 General	14
5.3.2 Thermal resistance and thermal conductivity	15
5.3.3 Reaction to fire	16
6 Designation code	16
6.1 General	16
6.2 Assessment and Verification of the Constancy of Performance (AVCP)General	16
6.3 Factory production control	17
7 Marking and labelling	17
Annex A (normative) Determination of the declared values of thermal resistance and thermal conductivity	20
A.1 General	20
A.2 Input data	20
A.3 Declared values	20
Annex B (normative) Factory production control	24

Annex C (normative) Specimen preparation method for thermal resistance and thermal conductivity test.....	26
C.1 Principle.....	26
C.2 Procedure.....	26
Annex D (normative) Specimen preparation method for water absorption test.....	29
D.1 Principle.....	29
D.2 Procedure.....	29
Annex E (normative) Specimen preparation method for air flow resistivity test — Principle.....	30
Annex F (normative) Testing for reaction to fire of products.....	31
F.1 Scope.....	31
F.2 Product and installation parameters.....	31
F.3 Standardized Mounting and fixing.....	32
Annex G (normative) Testing for reaction to fire of products in standardized assemblies simulating end-use application(s).....	33
G.1 Scope.....	33
G.2 Product and installation parameters.....	33
G.3 Standardized Mounting and fixing.....	34
Annex H (normative) Rules for creating performance charts for loose-fill insulation and examples of performance charts.....	35
H.1 General.....	35
H.2 Performance chart for loft application when method 1 or 2 (Annex A) are used.....	35
H.3 Performance chart for masonry cavity wall insulation, and frame constructions insulation (method 1 Annex A).....	38
Annex I (normative) Specimen preparation method for coverage and density measurement.....	40
I.1 Principle.....	40
I.2 Procedure for attics floors application.....	40
I.3 Procedure for closed construction.....	41
Annex J (normative) Thermal insulating products for lofts and closed cavities - Determination of settlement for blown or injected loose fill insulation.....	46
J.1 Settlement after ageing.....	46
J.2 Test report.....	50
Annex K (informative) Masonry cavity walls - Method for determining suitable spacings for blowing holes.....	51
K.1 Test house.....	51
K.2 Test method.....	51
K.3 Observations.....	51
K.4 Installation procedure.....	51

EN 14064-1:2018 (E)

Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011	53
Bibliography	57

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

EN 14064-1:2018 (E)

- 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 m²·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 14064-1:2018 (E)

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)*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN