
**Toplotnoizolacijski proizvodi za opremo stavb in industrijske inštalacije -
Ugotavljanje mer, pravokotnosti in ravnosti predoblikovanih cevnih izolacij
(ISO/DIS 12628:2021)**

Thermal insulating products for building equipment and industrial installations -
Determination of dimensions, squareness and linearity of preformed pipe insulation
(ISO/DIS 12628:2021)

Wärmedämmstoffe für die Haustechnik und für betriebstechnische Anlagen -
Bestimmung der Maße, der Rechtwinkligkeit und der Linearität von vorgeformten
Rohrdämmstoffen (ISO/DIS 12628:2021)

Produits isolants thermiques pour les équipements des bâtiments et les installations
industrielles - Détermination des dimensions, de l'équerrage et de la linéarité des
coquilles isolantes préformées (ISO/DIS 12628:2021)

Ta slovenski standard je istoveten z: prEN ISO 12628

ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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oSIST prEN ISO 12628:2021 en,fr,de

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DRAFT INTERNATIONAL STANDARD

ISO/DIS 12628

ISO/TC 163/SC 1

Secretariat: DIN

Voting begins on:
2021-05-13Voting terminates on:
2021-08-05

Thermal insulating products for building equipment and industrial installations — Determination of dimensions, squareness and linearity of preformed pipe insulation

Produits isolants thermiques pour les équipements des bâtiments et les installations industrielles — Détermination des dimensions, de l'équerrage et de la linéarité des coquilles isolantes préformées

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ISO/CEN PARALLEL PROCESSING



Reference number
ISO/DIS 12628:2021(E)

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Published in Switzerland

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by the European Committee of Standardization (CEN) Technical Committee CEN/TC 88, *Thermal insulating materials and products*, in collaboration with ISO Technical Committee ISO/TC 163, *Thermal performance and energy use in the built environment*, Subcommittee SC 1, *Test and measurement methods*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 12628:2011), which has been technically revised.

The main changes compared to the previous edition are as follows:

- combination of EN 13467:2018 and ISO 12628:2011 in one document;
- Clause 2, *Normative References*, was added and the numbering of the following clauses was changed accordingly;
- the terms 3.6, *thickness uniformity*, and 3.9, *circular segment cord*, were added;
- new figure 2 was added and the numbering of the following figures was changed accordingly;
- Clause 5.5, *For circular segment chord*, was added and the numbering of the following clauses was changed accordingly;
- technical revision, mainly of clause 6, *Test specimens*, clause 7, *Procedure*, and clause 8, *Calculation and expression of results*;
- editorial revision.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

This International Standard is one of a series of standards which specify test methods for determining dimensions and properties of thermal insulating materials and products. The original EN 13467 supports a series of product standards for thermal insulating materials and products which derive from the Council Directive of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to constructive products (Directive 89/106/EEC) through the consideration of the essential requirements.

This International Standard is one of a series of Standards on test methods for products used to insulate building equipment and industrial installations which is comprised of the following group of International Standards:

ISO standard	Title	Respective EN standard
ISO 12623	<i>Thermal insulating products for building equipment and industrial installations — Determination of short-term water absorption by partial immersion of preformed pipe insulation</i>	EN 13472:2012
ISO 12624	<i>Thermal insulation products — Determination of trace quantities of water soluble chloride, fluoride, silicate, sodium ions and pH</i>	EN 13468:2001
ISO 12628	<i>Thermal insulating products for building equipment and industrial installations — Determination of dimensions, squareness and linearity of preformed pipe insulation</i>	EN 13467:2018
ISO 12629	<i>Thermal insulating products for building equipment and industrial installations — Determination of water vapour transmission properties of preformed pipe insulation</i>	EN 13469:2012
ISO 18096	<i>Thermal insulating products for building equipment and industrial installations — Determination of maximum service temperature for preformed pipe insulation</i>	EN 14707:2012
ISO 18097	<i>Thermal insulating products for building equipment and industrial installations — Determination of maximum service temperature</i>	EN 14706:2012
ISO 18098	<i>Thermal insulating products for building equipment and industrial installations — Determination of the apparent density of preformed pipe insulation</i>	EN 13470:2001
ISO 18099	<i>Thermal insulating products for building equipment and industrial installations — Determination of the coefficient of thermal expansion</i>	EN 13471:2001

A further series of existing European Standards on test methods was adopted by ISO. This “package” of standards comprises the following group of interrelated standards:

ISO standard	Title	Respective EN standard
ISO 12344	<i>Thermal insulating products for building applications — Determination of bending behaviour</i>	EN 12089
ISO 12968	<i>Thermal insulation products for building applications — Determination of the pull-off resistance of external thermal insulation composite systems (ETICS) (foam block test)</i>	EN 13495

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ISO standard	Title	Respective EN standard
ISO 29465	<i>Thermal insulating products for building applications — Determination of length and width</i>	EN 822
ISO 29466	<i>Thermal insulating products for building applications — Determination of thickness</i>	EN 823
ISO 29467	<i>Thermal insulating products for building applications — Determination of squareness</i>	EN 824
ISO 29468	<i>Thermal insulating products for building applications — Determination of flatness</i>	EN 825
ISO 29469	<i>Thermal insulating products for building applications — Determination of compression behaviour</i>	EN 826
ISO 29470	<i>Thermal insulating products for building applications — Determination of the apparent density</i>	EN ISO 29470
ISO 29471	<i>Thermal insulating products for building applications — Determination of dimensional stability under constant normal laboratory conditions (23 °C/50 % relative humidity)</i>	EN 1603
ISO 29472	<i>Thermal insulating products for building applications — Determination of dimensional stability under specified temperature and humidity conditions</i>	EN 1604
ISO 29764	<i>Thermal insulating products for building applications — Determination of deformation under specified compressive load and temperature conditions</i>	EN 1605
ISO 29765	<i>Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces</i>	EN 1607
ISO 29766	<i>Thermal insulating products for building applications — Determination of tensile strength parallel to faces</i>	EN 1608
ISO 29767	<i>Thermal insulating products for building applications — Determination of short-term water absorption by partial immersion</i>	EN ISO 29767
ISO 29768	<i>Thermal insulating products for building applications — Determination of linear dimensions of test specimens</i>	EN 12085
ISO 29769	<i>Thermal insulating products for building applications — Determination of behaviour under point load</i>	EN 12430
ISO 29770	<i>Thermal insulating products for building applications — Determination of thickness for floating-floor insulating products</i>	EN 12431
ISO 29771	<i>Thermal insulating materials for building applications — Determination of organic content</i>	EN 13820
ISO 29803	<i>Thermal insulation products for building applications — Determination of the resistance to impact of external thermal insulation composite systems (ETICS)</i>	EN 13497
ISO 29804	<i>Thermal insulation products for building applications — Determination of the tensile bond strength of the adhesive and of the base coat to the thermal insulation material</i>	EN 13494
ISO 29805	<i>Thermal insulation products for building applications — Determination of the mechanical properties of glass fibre meshes</i>	EN 13496

ISO standard	Title	Respective EN standard
ISO 16534	<i>Thermal insulating products for building applications — Determination of compressive creep</i>	EN ISO 16534
ISO 16535	<i>Thermal insulating products for building applications — Determination of long-term water absorption by immersion</i>	EN ISO 16535
ISO 16536	<i>Thermal insulating products for building applications — Determination of long-term water absorption by diffusion</i>	EN ISO 16536
ISO 16537	<i>Thermal insulating products for building applications — Determination of shear behaviour</i>	EN 12090
ISO 16544	<i>Thermal insulating products for building applications — Conditioning to moisture equilibrium under specified temperature and humidity conditions</i>	EN 12429
ISO 16545	<i>Thermal insulating products for building applications — Determination of behaviour under cyclic loading</i>	EN 13793
ISO 16546	<i>Thermal insulating products for building applications — Determination of freeze-thaw resistance</i>	EN 12091

This International Standard has been prepared for products used to insulate building equipment and industrial installations, but it may also be applied to products used in other areas.

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Thermal insulating products for building equipment and industrial installations — Determination of dimensions, squareness and linearity of preformed pipe insulation

1 Scope

This International Standard specifies the equipment and procedures for determining the dimensions, squareness and linearity of preformed pipe insulation, supplied in one piece, half sections or segments. It is applicable to thermal insulating products.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply (see figure 1,2 and 5).

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

— ISO Online browsing platform: available at <https://www.iso.org/obp>

— IEC Electropedia: available at <http://www.electropedia.org/>
<https://standards.iteh.ai/catalog/standards/sist/c61dfa23-3ca5-40de-981d-454ec7a12cb9/osist-pren-iso-12628-2021>

3.1 circumference

C

circular length of the outer surface of the pipe insulation

3.2 outside diameter

D_o

linear distance between two opposite points on the outside surface of the pipe insulation measured across the centre

3.3 inside diameter

D_i

linear distance between two opposite points on the inside surface of the pipe insulation measured across the centre

3.4 length

l

linear dimension measured perpendicularly to the circumference of the pipe insulation