



SLOVENSKI STANDARD

oSIST prEN 16382:2025

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Toplotnoizolacijski proizvodi za uporabo v gradbeništvu - Ugotavljanje odpornosti sider proti potegu skozi toplotnoizolacijske proizvode

Thermal insulation products for building applications - Determination of the pull-through resistance of plate and spiral anchors through thermal insulation products

Wärmedämmstoffe für das Bauwesen - Bestimmung des Durchzugwiderstandes von Teller- und Spiraldübeln durch Wärmedämmstoffe

Produits isolants thermiques destinés aux applications du bâtiment - Détermination de la résistance au déboutonnage des chevilles à rosace plane ou hélicoïdales dans les produits isolants thermiques

Ta slovenski standard je istoveten z: prEN 16382

<https://standards.iteh.ai/catalog/standards/sist/5cc6bdd7-d048-4f4b-badc-b8c80e6746cc/osist-pren-16382-2025>

ICS:

91.100.60	Materiali za toplotno in zvočno izolacijo	Thermal and sound insulating materials
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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
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ICS 91.100.60

Will supersede EN 16382:2016

English Version

Thermal insulation products for building applications - Determination of the pull-through resistance of plate and spiral anchors through thermal insulation products

Produits isolants thermiques destinés aux applications
du bâtiment - Détermination de la résistance au
débouonnage des chevilles à rosace plane ou
hélicoïdales dans les produits isolants thermiques

Wärmedämmstoffe für das Bauwesen - Bestimmung
des Durchzugwiderstandes von Teller- und
Spiraldübeln durch Wärmedämmstoffe

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 88.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 16382:2024) has been prepared by Technical Committee CEN/TC 88 “Thermal insulating materials and products”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 16382:2016.

This document includes the following significant technical changes with respect to EN 16382:2016:

- supplementary regulations for the implementation, evaluation and documentation of tests when using spiral anchors were added.

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prEN 16382:2024 (E)**1 Scope**

This document specifies equipment and procedures for determining the pull-through resistance of plate and spiral anchors through thermal insulation products.

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 206,¹ Concrete — Specification, performance, production and conformity

EN 1607, *Thermal insulating products for building applications - Determination of tensile strength perpendicular to faces*

EN 1990:2023, *Eurocode - Basis of structural and geotechnical design*

EN ISO 9229, *Thermal insulation - Vocabulary (ISO 9229)*

EN ISO 29466, *Thermal insulating products for building applications - Determination of thickness (ISO 29466)*

ISO 12491:1997, *Statistical methods for quality control of building materials and components*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN ISO 9229 apply.

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

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>⁵

4 Principle

The pull-through resistance of a plate or spiral anchor through thermal insulation products is determined by a direct tensile load perpendicular to the surface of the thermal insulation product. The tensile load is applied by means of a tension plate glued to the test area of the thermal insulation product.

5 Apparatus**5.1 Experimental setup**

NOTE In Clause 5, the numbers between brackets refer to the keys of Figure 1 to Figure 3.

The plate or spiral anchor (1) which is to be tested is pulled through the thermal insulation product (3). The edges of the thermal insulation product are fixed by two square templates with a centric circular opening (2) and clamps (7). The anchor is positioned in the centre of the sample according to the manufacturer's instructions. The circular tension plate (5) is glued (6) onto the thermal insulation product. The anchor is covered previously with a non-adhesive foil. The tension load is introduced to the thermal insulation product by the circular tension plate which fits into the circular opening of the template. The anchorage area of the plate anchor is fixed by a suitable device. The tension load is exerted until failure.

¹As impacted by EN 206:2013+A2:2021.