

STN	Tepelnoizolačné výrobky pre budovy Stanovenie odolnosti proti vyvlečeniu rozperných a špirálových kotiev cez tepelnoizolačné výrobky	STN EN 16382 72 7090
------------	---	--

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

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. 03/26

Obsahuje: EN 16382:2026

Oznámením tejto normy sa ruší
STN EN 16382 (72 7090) z marca 2017

142250

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2026
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii
v znení neskorších predpisov.

EUROPEAN STANDARD

EN 16382

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2026

ICS 91.100.60

Supersedes EN 16382:2016

English Version

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

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

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

This European Standard was approved by CEN on 24 November 2025.

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.



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 16382:2026 (E)

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Principle	4
5	Apparatus	4
5.1	Experimental setup	4
5.2	Glue	6
5.3	Template	6
5.4	Clamping device	7
5.5	Tension plate	7
5.6	Tensile testing machine	7
6	Test specimens	7
6.1	Thermal insulation and anchor position	7
6.2	Preparation of the test specimens	8
6.3	Number of test specimens	9
7	Procedure	9
7.1	Test conditions	9
7.2	Attachment of the test specimens to the tensile testing machine	9
7.3	Test procedure	12
8	Calculation and expression of results	13
8.1	Failure load	13
8.2	Pull-through resistance F_5 %	13
8.3	Determination of the mean breaking cone	14
9	Test report	14

European foreword

This document (EN 16382:2026) 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 July 2026, and conflicting national standards shall be withdrawn at the latest by July 2026.

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 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.

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.

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.

EN 16382:2026 (E)**1 Scope**

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

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, *Concrete — Specification, performance, production and conformity*

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*

ISO 29765, *Thermal insulating products for building applications — Determination of tensile strength perpendicular to faces*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN