

This is a preview of "BS EN 1382:2016". Click [here](#) to purchase the full version from the ANSI store.

BS EN 1382:2016



BSI Standards Publication

Timber Structures — Test methods — Withdrawal capacity of timber fasteners

bsi.

...making excellence a habit.™

This is a preview of "BS EN 1382:2016". [Click here to purchase the full version from the ANSI store.](#)

This British Standard is the UK implementation of EN 1382:2016. It supersedes BS EN 1382:1999 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee B/518, Structural timber.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2016. Published by BSI Standards Limited 2016

ISBN 978 0 580 85799 7

ICS 91.080.20

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 February 2016.

Amendments issued since publication

Date	Text affected
------	---------------

This is a preview of "BS EN 1382:2016". [Click here to purchase the full version from the ANSI store.](#)

EUROPÄISCHE NORM

February 2016

ICS 91.080.20

Supersedes EN 1382:1999

English Version

Timber Structures - Test methods - Withdrawal capacity of timber fasteners

Structures en bois - Méthodes d'essai - Résistance à l'arrachement dans le bois d'éléments de fixation

Holzbauwerke - Prüfverfahren - Ausziehtragfähigkeit von Holzverbindungsmitteln

This European Standard was approved by CEN on 19 December 2015.

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, 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: Avenue Marnix 17, B-1000 Brussels

This is a preview of "BS EN 1382:2016". [Click here to purchase the full version from the ANSI store.](#)

Contents	Page
European foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Symbols and abbreviations	5
5 Materials	6
5.1 Timber	6
5.2 Fasteners	6
6 Test methods	6
6.1 General	6
6.2 Conditioning	6
6.3 Fabrication of the specimens	7
6.3.1 Fastener axis perpendicular to the grain	7
6.3.2 Fastener axis parallel to the grain	7
6.4 Test procedure	8
6.5 Test results	8
6.6 Test report	9
Bibliography	10

This is a preview of "BS EN 1382:2016". [Click here to purchase the full version from the ANSI store.](#)

European foreword

This document (EN 1382:2016) has been prepared by Technical Committee CEN/TC 124 "Timber Structures", the secretariat of which is held by AFNOR.

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 August 2016, and conflicting national standards shall be withdrawn at the latest by August 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document will supersede EN 1382:1999.

Compared to EN 1382:1999, the following changes have been made:

- replacement of EN 28970 by EN ISO 8970;
- improvement to figures and to definitions.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard specifies the test method for determining the withdrawal capacity of fasteners which have been inserted into timber (solid timber, LVL, CLT and glued laminated timber).

The test method applies to all types of nails, screws and staples.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 14592, *Timber structures - Dowel-type fasteners - Requirements*

EN 26891:1991, *Timber structures - Joints made with mechanical fasteners - General principles for the determination of strength and deformation characteristics (ISO 6891:1983)*

EN ISO 8970:2010, *Timber structures - Testing of joints made with mechanical fasteners - Requirements for wood density (ISO 8970:2010)*

ISO 13061-1, *Physical and mechanical properties of wood — Test methods for small clear wood specimens — Part 1: Determination of moisture content for physical and mechanical tests*

ISO 13061-2, *Physical and mechanical properties of wood — Test methods for small clear wood specimens — Part 2: Determination of density for physical and mechanical tests*

3 Terms and definitions

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

3.1

staple

double-bent, u-shaped piece of round, square, rectangular or oval wire with pointed legs

3.2

staple crown

connection between the two staple legs

3.3

staple leg diameter

nominal value of the diameter of a round staple leg, the side length of a rectangular leg, or the diameter of an oval cross section as defined in EN 14592

3.4

staple length

length of each staple leg, including point

3.5

staple crown width

width across the staple legs