

STN	Drevené konštrukcie Skúšanie spojov s mechanickými spojovacími prostriedkami Požiadavky na hustotu dreva (ISO 8970: 2020)	STN EN ISO 8970 73 2816
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Timber structures - Testing of joints made with mechanical fasteners - Requirements for timber density (ISO 8970:2020)

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. 09/20

Obsahuje: EN ISO 8970:2020, ISO 8970:2020

Oznámením tejto normy sa ruší
STN EN ISO 8970 (73 2816) z januára 2011

131008

EUROPEAN STANDARD

EN ISO 8970

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2020

ICS 91.080.20

Supersedes EN ISO 8970:2010

English Version

Timber structures - Testing of joints made with mechanical fasteners - Requirements for timber density (ISO 8970:2020)

Structures en bois - Essai sur assemblages réalisés par
organes mécaniques - Exigences concernant la masse
volumique du bois (ISO 8970:2020)

Holzbauwerke - Prüfung von mechanischen
Verbindungen - Anforderungen an die Rohdichte des
Holzes (ISO 8970:2020)

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EN ISO 8970:2020 (E)

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European foreword

This document (EN ISO 8970:2020) has been prepared by Technical Committee ISO/TC 165 "Timber structures" in collaboration with 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of an identical text or by endorsement, at the latest by October 2020, and conflicting national standards shall be withdrawn at the latest by October 2020.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.

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Endorsement notice

The text of ISO 8970:2020 has been approved by CEN as EN ISO 8970:2020 without any modification.

INTERNATIONAL STANDARD

ISO 8970

Third edition
2020-03

Timber structures — Testing of joints made with mechanical fasteners — Requirements for timber density

*Structures en bois — Essai sur assemblages réalisés par organes
mécaniques — Exigences concernant la masse volumique du bois*



Reference number
ISO 8970:2020(E)

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Published in Switzerland

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ISO 8970:2020(E)

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).

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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 Technical Committee ISO/TC 165, *Timber structures*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 124, *Timber structures*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 8970:2010), which has been technically revised.

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

In this edition the sampling method aims not only at ensuring that the selected pieces have a mean density comparable to the wood to which the test result is intended to be applied^[1], but also requiring the coefficient of variation of the density to be reflected. Only then the characteristic value of the strength determined by the test can be used directly^[2].

If it is not possible to obtain wood with the target mean value and variation of the wood density, the normative [Annex A](#) provides a correction method. The informative [Annex B](#) provides background to the correction procedure.

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.

Introduction

The sampling method given aims at ensuring that the selected pieces have a density distribution comparable to the timber to which the test result is intended to be applied. When this is fulfilled, the results can be used directly to determine the characteristic value of the strength parameter.

As it is often difficult to obtain a variation of the density similar to that allowed in a strength class, a correction method is given to obtain a corrected coefficient of variation for the strength parameter.

It should be kept in mind that the effect of density on the load-bearing capacity of connections is in many cases less significant than expected, and that many other parameters influence it.

Timber structures — Testing of joints made with mechanical fasteners — Requirements for timber density

1 Scope

This document specifies a method based on density, for the selection of pieces of wood used in determining the strength and stiffness properties of joints between members of structural timber made with mechanical fasteners. It is intended to be used in conjunction with a test standard specifying a test method.

It is assumed that the wood pieces are conditioned to the relevant conditions, that the wood density is normally distributed and that any deviations are reported.

This document is applicable only to specimens of structural timber.

NOTE It is emphasized that the wood density is only one of the properties that can influence the strength of a joint. Other relevant properties are, for example, growth-ring size and orientation, toughness and hardness.

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.

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*

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