



DRAFT TANZANIA STANDARD

**Physical and mechanical properties of wood — Test methods for
small clear wood specimens — Part 18: Vocabulary**

TANZANIA BUREAU OF STANDARDS

This draft Tanzania Standard was published under the authority of the Board of Directors of Tanzania Bureau of Standards on yy-mm-dd.

Tanzania Bureau of Standards (TBS) is the statutory national standards body for Tanzania established under the Standards Act No. 3 of 1975, repealed and replaced by the Standards Act No. 2 of 2009.

The Building and Construction Divisional Standards Committee (BCDC), under whose supervision this Tanzania Standard was prepared, consists of representatives from the following organizations:

- *College of Engineering and Technology (CoET), University of Dar es Salaam (UDSM)

- Ministry of Works and Transport (MoWT)

- National Housing Corporation (NHC)

- Contractors Registration Board (CRB)

- Ardhi University (ARU)

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- Institution of Engineers Tanzania (IET)

- *National Construction Council (NCC)

- Engineers Registration Board (ERB)

The organizations marked with an asterisk (*) in the above list, together with the following were directly represented on the Technical Committee entrusted with the preparation of this Tanzania Standard:

- Tanzania Forestry Research Institute (TAFORI)

- Sokoine University of Agriculture (SUA)

- Sao Hill Industries Ltd

- Tanzania Forest Services Agency (TFS)

- Zanzibar Bureau of Standards (ZBS)

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0 National Foreword

The Tanzania Bureau of Standards is the statutory national standards body for Tanzania, established under standards Act No. 3 of 1975, amended by Act No. 2 of 2009.

This draft Tanzania Standard is being prepared by BCDC 6 Sawn timber, Sawn logs and Wood based Components technical committee under the supervision of the Building and Construction Divisional Committee (BCDC).

This draft Tanzania Standard is the identical adoption of *ISO 13061-18:2022 Physical and mechanical properties of wood — Test methods for small clear wood specimens — Part 18: Vocabulary* published by International Organization for Standardization.

Terminologies and conventions

The text of the International Standard is hereby recommended for approval without modification.

Some terminologies and certain conventions are not identical with those used as Tanzania Standard; attention is drawn to the following:

The comma (,) has been used as decimal marker (.) for metric dimensions. In Tanzania Standards, its current practice to use a full point on the baseline as decimal marker.

Whenever the words “International Standard” appear, referring to this standard, they should be interpreted as “Tanzania Standard”.

**Physical and mechanical properties of
wood — Test methods for small clear
wood specimens —**

**Part 18:
Vocabulary**

*Propriétés physiques et mécaniques du bois — Méthodes d'essais sur
petites éprouvettes de bois sans défauts —*

Partie 18: Vocabulaire





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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

This document was prepared by Technical Committee ISO/TC 218, *Timber*.

This first edition of ISO 13061-18 cancels and replaces ISO 9086-1:1987, which has been technically revised. The main changes compared to the previous edition are as follows:

- title of the document has been changed to reflect the content;
- the content covers all common terminologies used in the sampling and test methods of small clear wood specimens;
- the terminologies were divided into four categories: general terms commonly used in test methods, terms related to wood macrostructure, physical and to mechanical tests properties.

A list of all parts in the ISO 13061 series can be found on the ISO website.

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

This document defines terms which are commonly used in sampling and testing of small clear wood specimen for physical and mechanical properties. The need to be able to comprehend and communicate clearly and precisely on the methods of sampling and testing of physical and mechanical characteristics of wood is of prime importance because of the great variety of species, variability of the material, advancement of equipment and testing facility, and many other factors that may affect the test results. Only with good similar understanding on the methods of sampling and testing that the test data from various sources can be scientifically compared and inferred.

This document has been revised into a single standard document for terminologies related to testing of small clear wood specimens for physical and mechanical characteristics of wood.

Physical and mechanical properties of wood — Test methods for small clear wood specimens —

Part 18: Vocabulary

1 Scope

This document lists the terms and definitions relating to general concepts, macrostructure, sampling, and methods of physical and mechanical testing of wood. Other terminologies that are not mentioned in this standard are defined in ISO 24294.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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 <https://www.electropedia.org/>

3.1 Common terms relating to wood macrostructure

3.1.1

annual ring

growth ring (3.1.2) corresponding to an annual period of growth

[SOURCE: ISO 24294:2021, 9.9, modified — Note 1 to entry was deleted.]

3.1.1.1

annual ring width

distance, measured radially, between boundaries of adjacent *annual rings* (3.1.1) of wood

3.1.2

growth ring

layer of wood produced in one growing season

[SOURCE: ISO 24294:2021, 9.8, modified — Note 1 to entry was deleted.]

3.1.2.1

growth ring width

distance, measured radially, between boundaries of adjacent *growth rings* (3.1.2)

Note 1 to entry: The width of *growth rings* (3.1.2) depends on the tree species and on growing conditions. In temperate growth zones, growth rings correspond to *annual rings* (3.1.1).

3.1.3

juvenile wood

wood formed during the early years, found at the centre of the stem and branches, possessing physical and mechanical properties different from those of wood formed later

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