

MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

"Bersekutuan Berkeadilan"

**BRUNEI DARUSSALAM STANDARD
PIAWAI BRUNEI DARUSSALAM**

**PBD ISO 3129
ISO 3129 : 1975(E)
First edition 2010**

**WOOD - SAMPLING METHODS AND GENERAL REQUIREMENTS
FOR PHYSICAL AND MECHANICAL TESTS**

**MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM**

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REQUIREMENTS FOR PHYSICAL AND
MECHANICAL TESTS**

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National Foreword

This Brunei Darussalam Standard reproduces verbatim ISO 3129: 1975(E) and implements it as the Brunei Darussalam National Standard.

This Brunei Darussalam Standard is published under the direction of the Technical Committee on Timber Standards.

Attention is drawn to the fact that this Brunei Darussalam Standard does not confer any immunity from legal obligations in any contract for compliance to the Standard.

The Brunei Darussalam Standards are subject to periodical review according to the current needs of the local industries to keep abreast of progress in the industries concerned. Suggestions of amendments will be recorded and in due course brought to the notice of the committees concerned.

Amendments issued since publication :

Amd No.	Date of Issue	Text affected

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INTERNATIONAL STANDARD



3129

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION · МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ · ORGANISATION INTERNATIONALE DE NORMALISATION

**Wood — Sampling methods and general requirements for
physical and mechanical tests**

Bois — Méthodes d'échantillonnage et conditions générales pour les essais physiques et mécaniques

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3129 was drawn up by Technical Committee ISO/TC 55, *Sawn timber and sawlogs*, and circulated to the Member Bodies in June 1973.

It has been approved by the Member Bodies of the following countries :

Australia	India	Romania
Belgium	Ireland	South Africa, Rep. of
Bulgaria	Italy	Sweden
Canada	Japan	Thailand
Chile	Mexico	Turkey
Czechoslovakia	Netherlands	U.S.S.R.
Egypt, Arab Rep. of	Norway	Yugoslavia
Hungary	Poland	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Austria
France
Germany
United Kingdom

Wood — Sampling methods and general requirements for physical and mechanical tests

1 SCOPE AND FIELD OF APPLICATION

1.1 This International Standard specifies methods for the selective and mechanical sampling of wood, for the conditioning of selected material and for the preparation of test pieces. In addition, it specifies the general requirements for physical and mechanical tests on small, clear test pieces free from visible defects.

1.2 The selective method of sampling should be used in cases where the coefficients of variation of the wood properties for one tree and between trees of one species are known and where it is possible to select material for samples from a large number of trees, logs and pieces of sawn timber.

1.3 The mechanical method of sampling should be used in cases where the mean values of the coefficients of variation of the wood properties are known and where it is possible to select material for samples only from a limited number of trees, logs and pieces of sawn timber.

2 SAMPLING

2.1 Selection of material

The material intended for physical and mechanical tests shall be selected taking due account of the purpose in mind (determination of the quality of stand wood, of a model tree, of a lot of sawn timber, of an individual board, etc.), as well as of the appropriate requirements for ensuring that the sample and its statistical properties are representative of the lot.

The material selected shall be in the form of logs, sawn timber and boards.

2.2 Conversion of material

2.2.1 Logs

A heart board shall be cut from a log (see figure 1). A heart board from a log of eccentric structure shall cover the geometrical centre. In mechanical sampling from a log 180 mm or less in diameter, heart boards may be cut in the direction of two mutually perpendicular diameters (see figure 2).

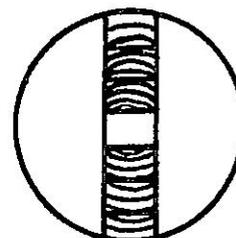


FIGURE 1 — General scheme of cutting heart board from log

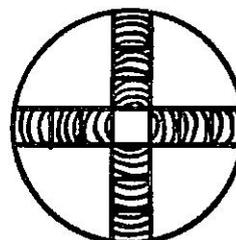


FIGURE 2 — Scheme of cutting heart board from log of diameter 180 mm or less (permitted in mechanical sampling)

The thickness of the heart board shall be not less than 60 mm. Heart boards 40 mm thick may be cut from logs of diameter 180 mm or less. In this case, to obtain test pieces with cross-sectional dimensions greater than 30 mm, cross-sectional lengths not less than 100 mm long shall be cut from logs before sawing out heart boards.

2.2.2 Sawn timber

In selective sampling of sawn timber, a stick or sticks shall be cut out parallel to taper, the number of sticks being sufficient to ensure that the sample and its statistical properties are representative of the lot. The sticks shall be not less than 35 mm thick.

In mechanical sampling the heart boards cut in accordance with 2.2.1 and selected in accordance with 2.1 shall be converted parallel to taper into sticks 35 mm thick. The sticks containing pith shall be discarded.