



MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

"Bersekutu Bertambah Mutu"

**BRUNEI DARUSSALAM STANDARD
PIAWAI BRUNEI DARUSSALAM**

**PBD ISO 8906
ISO 8906 : 1988(E)
First edition 2010**

**SAWN TIMBER - TEST METHODS - DETERMINATION OF
RESISTANCE TO LOCAL TRANSVERSE COMPRESSION**

**MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM**

PBD ISO 8906

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**SAWN TIMBER – TEST METHODS –
DETERMINATION OF RESISTANCE TO LOCAL
TRANSVERSE COMPRESSION**

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National Foreword

This Brunei Darussalam Standard reproduces verbatim ISO 8906: 1988(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 ORGANIZATION FOR STANDARDIZATION
ORGANISATION INTERNATIONALE DE NORMALISATION
МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Sawn timber — Test methods — Determination of resistance to local transverse compression

*Bois sciés — Méthodes d'essai — Détermination de la résistance à la compression localisée
transversale*

Reference number
ISO 8906:1988 (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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8906 was prepared by Technical Committee ISO/TC 55, *Sawn timber and sawlogs*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Sawn timber — Test methods — Determination of resistance to local transverse compression

1 Scope and field of application

This International Standard specifies a method of determining the resistance of sawn timber of coniferous and broadleaved species to local transverse compression.

It does not cover testing of small defect-free test pieces of wood.

2 Reference

ISO 3130, *Wood — Determination of moisture content for physical and mechanical tests.*

3 Principle

Determination from the "load/deflection" curve of the load proportional limit and the load at a given deformation, and calculation of the stresses at these loads.

4 Apparatus

4.1 Test machine, with a device registering load increments of less than 100 N/mm and deformation of the test piece of less than 0,02 mm/mm. In the absence of such a machine with a registering device, a test machine measuring the load to an accuracy of $\pm 1\%$ and capable of maintaining the test rate specified in 6.2 shall be used.

4.2 Device, capable of ensuring uniform loading of the test piece by means of a punch of width 50 mm and length at least 10 mm greater than the thickness of the sawn timber to be tested. The edges of the punch shall be rounded to a radius of 2 mm.

For machines without a registering device, the unit shall be equipped with an instrument capable of measuring the deformation of the test piece to an accuracy of 0,01 mm.

4.3 Measuring instrument, to determine the width of the test piece to an accuracy of 0,1 mm.

4.4 Equipment for the determination of moisture content, in accordance with ISO 3130.

5 Preparation of test pieces

5.1 The test piece, in the form of a right-sided prism of length 150 mm and height 50 mm, shall be cut from areas nearest to the edge of the sawn timber to be tested over the whole thickness, t (see figure 1).

The measured surfaces of the test piece (formed by the edge of the board and the edge opposite) shall be parallel.

The test piece may be cut from the portions of sawn timber left after sampling for other tests.

Dimensions in millimetres

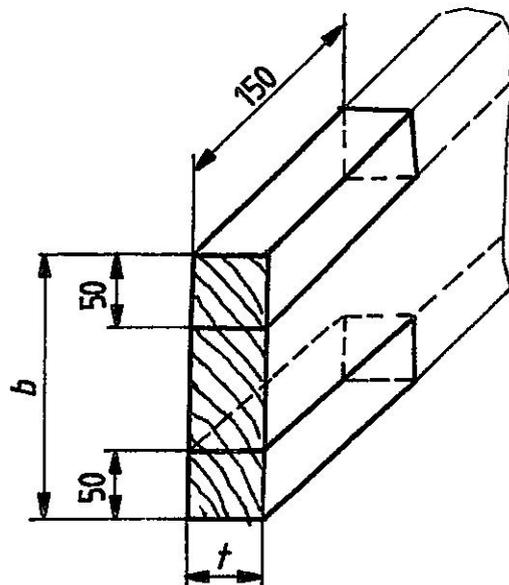


Figure 1 — Test pieces

5.2 To determine the minimum resistance value to local transverse compression, select the test pieces from the weakest portions of the sawn timber to be tested; this can be determined either visually or by the results of mechanized grading. Defects increasing the resistance of wood to compression are not permitted in the test piece.