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ISO 9087



PIAWAI BRUNEI DARUSSALAM
BRUNEI DARUSSALAM STANDARD

Wood – Determination of Nail and Screw Holding Power under Axial Load Application

MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

PBD ISO 9087

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**Construction Planning and Research Unit
Ministry of Development
Old Airport, Jalan Berakas
Bandar Seri Begawan BB 3510
Negara Brunei Darussalam**

Wood – Determination of Nail and Screw Holding Power under Axial Load Application

PIAWAI BRUNEI DARUSSALAM

PBD ISO 9087

First Edition

National Foreword

This Brunei Darussalam Standard reproduces verbatim ISO 9087: 1998 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 :

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COMMITTEE MEMBERS

The Technical Committee on Timber was entrusted by the Ministry of Development for the preparation of this Brunei Darussalam Standard. The Technical Committee members are as follows:-

- | | | | |
|-----|----------------------------|---|--|
| 1. | Dr. Wong Tuck Meng (Chair) | - | Forestry Department,
Ministry of Industry and Primary Resources. |
| 2. | Rosalind Khan | - | Construction Planning and Research Unit,
Ministry of Development. |
| 3. | Hamiddon Hj Md Said | - | BKS/UBB, DTS, Public Works Department. |
| 4. | Dr. Tan Kha Sheng | - | University Brunei Darussalam. |
| 5. | Dr. Yong Chee Tuan | - | University Brunei Darussalam. |
| 6. | Dr. John Onu Odihi | - | University Brunei Darussalam. |
| 7. | Nicholas Leong Soon Kong | - | Brunei Shell Petroleum. |
| 8. | Hj Zulkifli Sulaiman | - | Brunei Shell Petroleum. |
| 9. | Rosmin Ramli | - | Brunei Shell Petroleum. |
| 10. | Adnan Hj Bagol | - | Sultan Saiful Rizal Technical College. |
| 11. | Peter Tang | - | Cooper Macdonald Daud Sdn Bhd. |
| 12. | David Price | - | Arkitek Ibrahim. |
| 13. | Arun Nadig | - | Sepakat Setia Perunding |
| 14. | Terence Lo Thiam Tiong | - | Twinwood Kilndry Treatment Ind. |

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**Wood — Determination of nail and screw
holding power under axial load application**

*Bois — Détermination de la résistance à l'arrachement des pointes et des
vis à bois à l'application axiale de la charge*



Reference number
ISO 9087:1998(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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9087 was prepared by Technical Committee ISO/TC 165, *Timber structures*.

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International Organization for Standardization
Case postale 56 • CH-1211 Genève 20 • Switzerland
Internet iso@iso.ch

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Wood — Determination of nail and screw holding power under axial load application

1 Scope

This International Standard specifies a method for determining the specific resistance of wood to the extraction of nails and screws.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3129:1975, *Wood — Sampling methods and general requirements for physical and mechanical tests.*

ISO 3130:1975, *Wood — Determination of moisture content for physical and mechanical tests.*

ISO 3131:1975, *Wood — Determination of density for physical and mechanical tests.*

3 Principle

Determination of the maximum axial force required to extract a nail or a screw, and calculation of the specific resistance of the wood as a ratio of this force to the depth of nail or screw penetration.

4 Apparatus

4.1 **Testing machine**, capable of measuring the load to an accuracy of $\pm 1\%$.

4.2 **Device** for extracting nails and screws, capable of ensuring the application of the extraction force along their axes.

4.3 **Measuring instrument**, capable of measuring the diameter of nails and screws to an accuracy of $\pm 0,1$ mm.

4.4 **Measuring instrument**, capable of measuring linear dimensions to an accuracy of ± 1 mm.

4.5 **Equipment for determining the moisture content**, in accordance with ISO 3130.

5 Preparation of test pieces

5.1 Test pieces shall be cut in the form of a rectangular prism with square sections having dimensions no smaller than those shown in figure 1.