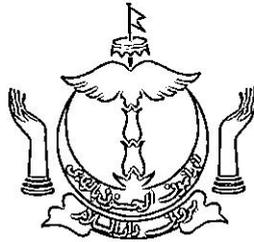


PBD 16 : 1994



PIAWAI BRUNEI DARUSSALAM
BRUNEI DARUSSALAM STANDARD

Timber

**Methods for the Determination of Moisture
Content of Timber**

MINISTRY OF DEVELOPMENT
NEGARA BRUNEI DARUSSALAM

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**Construction Planning and Research Unit
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Timber

**Methods for the Determination of Moisture
Content of Timber**

PIAWAI BRUNEI DARUSSALAM

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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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FOREWORD

This Brunei Darussalam Standard was prepared by the Technical Committee on Timber under the authority of the Standards Committee, Ministry of Development.

This standard describes procedures for the determination of moisture content in timber, for use in factories and construction sites.

The need for these procedures have been long felt by the local users of timber. The availability of these will go a long way towards the promotion of wider utilisation of timber for local building and engineering construction.

In the formulation of these procedures, local timber species and local utilisation practices have been taken into special consideration. However, it cannot be claimed that these procedures are exhaustive.

Acknowledgment is made to the Forestry Department, Ministry of Industry & Primary Resources, for drafting this standard.

COMMITTEE REPRESENTATION

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

- | | |
|---|---|
| 1. Awang Wong Tuck Meng
(Chairman) | Forestry Department,
Ministry of Industry and Primary
Resources |
| 2. Pengiran Haji Matusin bin
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| 10. Mr G.N. Prabhu | Baharuddin Associates |

Methods for the Determination of Moisture Content of Timber

1.0 Scope and Application

1.1 This standard describes procedures for the determination of moisture content in timber.

1.2 The methods described herein are suitable for the use in the factories and construction sites.

2.0 Oven-Drying Method

2.1 Introduction

The oven-drying method is the more reliable and accurate method for the determination of moisture content of timber. However, it has its disadvantages in that it is time-consuming and is destructive because of the need to cut test samples from the timber.

For timbers containing a high percentage of resinous materials, e.g., Keruing, and timbers that have been impregnated with volatile substances such as creosote, this method is not suitable, as a portion of the weight loss during oven drying may be due to the volatilisation of materials other than water. In such circumstances, distillation or extraction method, such as the Dean and Stark method is recommended. (*For a description of the Modified Dean and Stark method, refer to Malaysian Standard MS 837:1985*).

2.2 Selection of Test Pieces

Complete cross-sections shall be cut from the timber. These shall be 15 mm to 25 mm long in the direction of the grain and free from all defects and imperfections. The test pieces shall be cut as follows: