

**PBD ISO 820**  
**ISO 820**



**PIAWAI BRUNEI DARUSSALAM**  
**BRUNEI DARUSSALAM STANDARD**

**PARTICLE BOARDS –**  
**DEFINITION AND**  
**CLASSIFICATION**

**MINISTRY OF DEVELOPMENT**  
**NEGARA BRUNEI DARUSSALAM**

**PBD ISO 820**

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Construction Planning and Research Unit  
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Negara Brunei Darussalam

**PARTICLE BOARDS –  
DEFINITION AND  
CLASSIFICATION**

**PIAWAI BRUNEI DARUSSALAM**

**PBD ISO 820**

First Edition

**National Foreword**

This Brunei Darussalam Standard reproduces verbatim ISO 820: 1975 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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## 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. Tan Kha Sheng<br>(Chairman)       | Universiti Brunei Darussalam                                       |
| 2.  | Hj Zulkifli Hj Sulaiman<br>(Co-Chair) | Brunei Shell Petroleum Co. Sdn Bhd                                 |
| 3.  | Rosalind Khan<br>(Secretariat)        | Construction Planning and Research Unit<br>Ministry of Development |
| 4.  | Hamiddon Hj Md Said                   | Public Works Department<br>Ministry of Development                 |
| 5.  | Dr. Yong Chee Tuan                    | Universiti Brunei Darussalam                                       |
| 6.  | Nicholas Leong Soon Kong              | Brunei Shell Petroleum Co. Sdn Bhd                                 |
| 7.  | Mohd Shahril Hj Maidin                | Brunei Shell Petroleum Co. Sdn Bhd                                 |
| 8.  | Hj Mohd Faisal Hj Nordin              | Forestry Department, Ministry of<br>Industry and Primary Resources |
| 9.  | Adnan Hj Bagol                        | Sekolah Vokasional Nakhoda Ragam                                   |
| 10. | Peter Tang                            | HAHD Engineering   |
| 11. | David Price                           | Arkitek Ibrahim  |
| 12. | Raymond Wong                          | Twinwood Kilndry Treatment   |
| 13. | Christopher Thien                     | Juru Ukur Bahan SPL  |

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**INTERNATIONAL STANDARD**



**820**

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

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## **Particle boards — Definition and classification**

*Panneaux de particules — Définition et classification*

**First edition — 1975-06-15**

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**UDC 674.816-41.001.33**

**Ref. No. ISO 820-1975 (E)**

**Descriptors :** building boards, particle boards, classification.

## 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.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, Technical Committee ISO/TC 151 has reviewed ISO Recommendation R 820 and found it technically suitable for transformation. International Standard ISO 820 therefore replaces ISO Recommendation R 820-1968 to which it is technically identical.

ISO Recommendation R 820 was approved by the Member Bodies of the following countries :

Austria	Germany	Portugal
Belgium	India	Romania
Canada	Ireland	South Africa, Rep. of
Chile	Israel	Spain
Colombia	Korea, Rep. of	Switzerland
Czechoslovakia	Netherlands	United Kingdom
Egypt, Arab Rep. of	New Zealand	U.S.S.R.
Finland	Norway	Yugoslavia
France	Poland	

No Member Body expressed disapproval of the Recommendation.

The Member Body of the following country disapproved the transformation of ISO/R 820 into an International Standard :

Italy

## Particle boards — Definition and classification

### 1 SCOPE AND FIELD OF APPLICATION

This International Standard gives a definition and establishes a classification of particle boards.

### 2 DEFINITION

**particle board** : Panel material manufactured under pressure essentially from particles of wood and/or other ligno-cellulosic fibrous materials (for example, wood chips, sawdust, flax shives, etc.) with or without the addition of an adhesive, hydraulic binders being excluded.

### 3 CLASSIFICATION

Particle boards can be classified according to different criteria, and it is impossible to give an absolute classification here. However, boards can be classified as follows :

#### 3.1 According to the manufacturing process<sup>1)</sup>

- flat pressed
- extruded
  - a) solid
  - b) tubular

#### 3.2 According to the state of the surface

- as pressed
- sanded or planed
- coated
- veneered

#### 3.3 According to the shape

- flat
- moulded

#### 3.4 According to the density.

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1) There are also intermediate manufacturing processes.