



MALAYSIAN STANDARD

MS 1787: PART 5:2004

WOOD-BASED PANELS – PART 5: DETERMINATION OF DENSITY (ISO 9427:2003, MOD)

ICS: 79.060

Descriptors: wood-based panels, determination, density

© Copyright 2004

DEPARTMENT OF STANDARDS MALAYSIA

DEVELOPMENT OF MALAYSIAN STANDARDS

The **Department of Standards Malaysia (DSM)** is the national standardisation and accreditation body.

The main function of the Department is to foster and promote standards, standardisation and accreditation as a means of advancing the national economy, promoting industrial efficiency and development, benefiting the health and safety of the public, protecting the consumers, facilitating domestic and international trade and furthering international cooperation in relation to standards and standardisation.

Malaysian Standards are developed through consensus by committees which comprise of balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject in hand. To the greatest extent possible, Malaysian Standards are aligned to or are adoption of international standards. Approval of a standard as a Malaysian Standard is governed by the Standards of Malaysia Act 1996 (Act 549). Malaysian Standards are reviewed periodically. The use of Malaysian Standards is voluntary except in so far as they are made mandatory by regulatory authorities by means of regulations, local by-laws or any other similar ways.

The Department of Standards appoints **SIRIM Berhad** as the agent to develop Malaysian Standards. The Department also appoints SIRIM Berhad as the agent for distribution and sale of Malaysian Standards.

For further information on Malaysian Standards, please contact:

Department of Standards Malaysia
Level 1 & 2, Block C4, Parcel C
Federal Government Administrative Centre
62502 Putrajaya
MALAYSIA

OR **SIRIM Berhad**
(Company No. 367474 - V)
1, Persiaran Dato' Menteri
P.O. Box 7035, Section 2
40911 Shah Alam
Selangor D.E.

Tel: 60 3 88858000
Fax: 60 3 88885060

Tel: 60 3 5544 6000
Fax: 60 3 5510 8095

<http://www.dsm.gov.my>

<http://www.sirim.my>

E-mail: central@dsm.gov.my

CONTENTS

	Page
Committee representation	ii
Foreword	iv
1 Scope	1
2 Normative references	1
3 Principle.....	1
4 Apparatus.....	1
5 Test pieces.....	2
6 Procedure.....	2
7 Expression of results.....	4
8 Test report.....	4
 Figures	
1 Cross section of a tubular panel.....	2
2 Point of measurement.....	3

MS 1787: PART 5:2004

Committee representation

The Building and Civil Engineering Industry Standards Committee (ISC D) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Chartered Institute of Building Malaysia
Construction Industry Development Board Malaysia
Department of Standards Malaysia
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerja Raya Malaysia
Jabatan Pengairan dan Saliran Malaysia
Jabatan Perumahan Negara
Malaysian Timber Industry Board
Master Builders Association Malaysia
Ministry of International Trade and Industry
Pertubuhan Akitek Malaysia
Suruhanjaya Tenaga
The Institution of Engineers, Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Timber and Timber Products which supervised the development of this Malaysian Standard was managed by the Malaysian Timber Industry Board in its capacity as an authorised Standards-Writing Organisation and consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Forestry Department of Peninsular Malaysia
Forestry Department of Sabah
Forest Research Institute Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Furniture Industry Council
Malaysian Panel-products Manufacturers' Association
Malaysian Timber Industry Board (Secretariat)
Malaysian Wood Industries Association
Malaysian Wood Moulding and Joinery Council
Malaysian Wood Preserving Association
Persatuan Pengusaha Kayu Kayan dan Perabot Bumiputera Malaysia
Pertubuhan Akitek Malaysia
Sarawak Timber Industry Development Corporation
SIRIM Berhad
Timber Exporters' Association of Malaysia
Universiti Putra Malaysia

Committee representation (*continued*)

The Subcommittee on Wood-based Panels which developed this Malaysian Standard consists of representatives from the following organisations:

Borden Chemical (M) Sdn Bhd

Dayakuasa Holdings Sdn Bhd

Fine Zone Furniture Sdn Bhd

Forest Research Institute Malaysia

Golden Hope Fibreboard Sdn Bhd

HeveaBoard Bhd

Malayan Adhesives and Chemicals Sdn Bhd

Malaysian Panel-products Manufacturers' Association

Malaysian Timber Industry Board (Secretariat)

Merbok MDF Sdn Bhd

Mieco Chipboard Bhd

Robin Resources (M) Sdn Bhd

Universiti Putra Malaysia

Universiti Sains Malaysia