



MALAYSIAN STANDARD

MS 1787-1:2020

**Wood-based panels - Part 1: Determination of
dimensions of panels
(First revision)
(ISO 16999:2003, MOD)**

ICS: 79.060

Descriptors: wood-based panels, determination, dimensions, panels

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DEPARTMENT OF STANDARDS MALAYSIA

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Committee representation

The National Standards Committee on Timber, Timber Structure and Timber Products under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Standards Malaysia (Secretariat)
Forest Research Institute Malaysia
Jabatan Kerajaan Tempatan
Jabatan Kerja Raya Malaysia
Malaysian MDF Manufacturers Association
Malaysian Panel-Products Manufacturers' Association
Malaysian Timber Council
Malaysian Timber Industry Board (Secretariat)
Malaysian Wood Industries Association
Malaysian Wood Moulding & Joinery Council
Malaysian Wood Preserving Association
Sabah Timber Industries Association
Sarawak Timber Association
Sarawak Timber Industry Development Corporation
Timber Exporters' Association of Malaysia
Universiti Putra Malaysia
Universiti Teknologi MARA

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

Besgrade Products Sdn Bhd
Construction Industry Development Board Malaysia
Department of Standards Malaysia (Secretariat)
Dongwha Malaysia Sdn Bhd
Forest Research Institute Malaysia
Hevea Board Berhad
Jabatan Kerja Raya Malaysia
Jowat Manufacturing (SEA) Sdn Bhd
Malaysian MDF Manufacturers Association
Malaysian Panel-Products Manufacturer's Association
Malaysian Timber Council
Malaysian Timber Industry Board
Perceptive Profile Sdn Bhd
Profina Plywood Sdn Bhd
Robin Resources (M) Sdn Bhd
Sarawak Timber Industry Development Corporation
Universiti Putra Malaysia
Universiti Sains Malaysia
Universiti Teknologi MARA

National Foreword

The adoption of the ISO Standard as a Malaysian Standard was recommended by the Technical Committee on Wood-based Panels under the authority of the National Standards Committee on Timber, Timber Products and Timber Structures.

This Malaysian Standard is a modified adoption of ISO 9426:2003, *Wood-based panels – Determination of dimensions of panels*, published by the International Organization for Standardization (ISO) with the following modifications:

- a) in the source text, "this International Standard" has been replaced by "this Malaysian Standard";
- b) the comma which is used as a decimal sign (if any) has been replaced by a point; and

Clause/Subclause	Modifications
4 Sampling	The text of Clause 4 has been changed to Clause 5
5 Moisture content at time of measurement	The text of Clause 5 has been changed to Clause 6
6 Conditioning	The text of Clause 6 has been changed to Clause 7. Where appropriate, the panels shall be conditioned to constant mass at ambient condition.
7 Apparatus	The text of Clause 7 has been changed to Clause 4
9.5 Flatness	Record the value measured in 8.5 to the nearest 0,5 mm and whether the bow is measured in width or length' has been changed to 'The flatness is indicated by maximum the amount of bow which shall be measured to the nearest 0.5 mm. The shape of the bow, concave or convex shall be recorded, if relevant'.

- d) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

<u>Referenced International Standards</u>	<u>Corresponding Malaysian Standards</u>
ISO 16999, Wood-based panels – Sampling and cutting of test pieces	MS 1787-2, <i>Wood-based panels – Part 2: Sampling and cutting of test pieces</i>
ISO 16979, Wood-based panels – Determination of moisture content	MS 1787-4, <i>Wood-based panels – Part 4: Determination of moisture content</i>

MS 1787 consists of the following parts, under the general title, Wood-based panels:

- Part 1: *Determination of dimensions of panels*
- Part 2: *Sampling and cutting of test pieces*
- Part 3: *Determination of dimensions of test pieces*

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National Foreword (Continued)

Part 4: *Determination of moisture content*

Part 5: *Determination of density*

Part 6: *Determination of swelling in thickness after immersion in water*

Part 7: *Determination of dimensional changes associated with changes in relative humidity*

Part 8: *Determination of moisture resistance under cyclic test conditions*

Part 9: *Determination of surface soundness*

Part 10: *Determination of modulus of elasticity in bending and of bending strength*

Part 11: *Determination of tensile strength perpendicular to the plane of the panel*

Part 12: *Determination of wet bending strength*

Part 13: *Determination of screw holding ability*

Part 14: *Determination of formaldehyde content by perforator method*

Part 15: *Determination of formaldehyde emission by desiccator method*

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. MOD on the front cover indicates a modified standard i.e. a standard adapted from an International Standard with permitted technical deviations, which are clearly identified and explained. The changes in structure are permitted provided that the altered structure permits easy comparison of the content of the two standards. Modified standards also include the changes permitted under identical correspondence.