



MALAYSIAN STANDARD

MS 1787-2:2020

**Wood-based panels - Part 2: Sampling and
cutting of test pieces
(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 16999:2003, *Wood-based panels – Sampling and cutting of test pieces*, 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

c) Clause/Subclause

Modifications

3.2 Sampling of test pieces

Table 1 - addition of properties on moisture resistance under cyclic test conditions, wet bending and screw holding. Omission of property on plywood-bonding quality;

Para 4 - the sentence 'In testing the bonding quality of plywood, *m* relates to a pair of glue lines and to each pre-treatment (see Annex A)' has been deleted; and

4.2 Example of cutting plan

deletion of the sentence 'The cutting plan shall be recorded. Except for plywood-bonding quality tests, for which a cutting plan is given in Annex A, the minimum distance between two test pieces for the same test shall be 100 mm. This requirement may be waived if replacement test pieces are required'.

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

Referenced International Standards

Corresponding Malaysian Standards

ISO 16979, *Wood-based panels – Determination of moisture content*
ISO 9427, *Wood-based panels – Determination of density*

MS 1787-4, *Wood-based panels – Part 4: Determination of moisture content*
MS 1787-5, *Wood-based panels - Part 5: Determination of density*

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National Foreword (Continued)

Referenced International Standards

ISO 16978, *Wood-based panels – Determination of modulus of elasticity in bending and of bending strength*
ISO 16981, *Wood-based panels – Determination of surface soundness*
ISO 16983, *Wood-based panels – Determination of swelling in thickness after immersion in water*
ISO 16984, *Wood-based panels – Determination of tensile strength perpendicular to the plane of the board*
ISO 16985, *Wood-based panels – Determination of dimensional changes associated with changes in relative humidity*

Corresponding Malaysian Standards

MS 1787-10, *Wood-Based Panels – Part 10: Determination of modulus elasticity in bending and of bending strength*
MS 1787-9, *Wood-based panels – Part 9: Determination of surface soundness*
MS 1787-6, *Wood-based panels – Part 6: Determination of swelling in thickness after immersion in water*
MS 1787-11, *Wood-based panels – Part 11: Determination of tensile strength perpendicular to the plane of the panel*
MS 1787-7, *Wood-based panels – Part 7: Determination of dimensional changes associated with changes in relative humidity*

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*
- 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.