



MALAYSIAN STANDARD

MS 544-2:2017

**Code of practice for structural use of timber -
Part 2: permissible stress design of solid
timber
(First revision)**

ICS: 91.080.20

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Committee representation

The Industry Standards Committee on Timber, Timber Products and Timber Structures, under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Construction Industry Development Board Malaysia
Department of Standards Malaysia
Forest Research Institute Malaysia
Jabatan Kerajaan Tempatan
Jabatan Kerja Raya Malaysia
Malaysian Furniture Promotion Council
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 Industry Development Corporation
Timber Exporters' Association of Malaysia
Universiti Putra Malaysia
Universiti Teknologi MARA

The Technical Committee on Timber Structures which supervised the development of this Malaysian Standard consists of representatives from the following organisations:

Construction Industry Development Board Malaysia
Construction Research Institute of Malaysia
Fire and Rescue Department of Malaysia
Forest Research Institute Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Timber Council
Malaysian Timber Industry Board (Secretariat)
Malaysian Wood Industries Association
Malaysian Wood Moulding Joinery & Council
Ministry of Urban Wellbeing, Housing and Local Government
Multinail Asia Sdn Bhd
MyGlam Sdn Bhd
Persatuan Pengusaha Kayu-Kayan dan Perabot Bumiputera, Malaysia
Pertubuhan Akitek Malaysia
The Institution of Engineers, Malaysia
Universiti Putra Malaysia
Universiti Sains Malaysia
Universiti Teknologi MARA
Woodsfield Glulam Manufacturing Sdn Bhd

The Working Group on Structural Use of Timber Part 2 which developed this Malaysian Standard consists of representatives from the following organisations:

Forest Research Institute Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Timber Industry Board (Secretariat)
Multinail Asia Sdn Bhd
Sarawak Timber Industry Development Corporation
Universiti Sains Malaysia
Universiti Teknologi Malaysia
Universiti Teknologi MARA
Universiti Tun Hussein Onn Malaysia

Foreword

This Malaysian Standard was developed by the Working Group on Structural Use of Timber Part 2 under the authority of the Industry Standard Committee on Timber, Timber Products and Timber Structures.

Major modifications in this revision are as follows:

- a) incorporation of new clause on “terms and definitions”;
- b) replacement of Appendix C on “grades” in Clause 7 with “MS 1714”;
- c) amendment to duration of loading in Table 5;
- d) incorporation of subclause 14.2 on “width factor”;
- d) incorporation of geometrical axes (X-axis and Y-axis) in Annex B; and
- e) deletion of Appendix C on “grading of Malaysian structural timbers”.

MS 544 consists of the following parts and sections, under the general title *Code of practice for structural use of timber*:

Part 1: General

Part 2: Permissible stress design of solid timber

Part 3: Permissible design of glued laminated timber

Part 4: Timber panel products

Part 5: Timber joints

Part 6: Workmanship, inspection and maintenance

Part 7: Testing

Part 8: Design, fabrication and installation of prefabricated timber roof trusses using toothed metal plate connectors

Part 9: Fire resistance of timber structures

Part 10: Preservative treatment of structural timbers

Part 11: Recommendations for the calculation basis for span tables

Part 12 : Structural laminated veneer lumber for structural application

Part 4 is further subdivided into a number of sections as follows:

Section 1: Structural plywood