



# MALAYSIAN STANDARD

MS EN 1998-1:2015

## **Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings**

**ICS: 91.120.25; 93.040**

Descriptors: eurocode, seismic action, imposed loads, earthquake, structure, design, building

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**Revision:** A process where existing Malaysian Standard is reviewed and updated which resulted in the publication of a new edition of the Malaysian Standard.

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NOTE: Technical corrigenda are not to correct errors which can be assumed to have no consequences in the application of the MS, for example minor printing errors.

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## Committee representation

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

Association of Consulting Engineers Malaysia  
Construction Industry Development Board Malaysia  
Department of Irrigation and Drainage Malaysia  
Department of Standards Malaysia  
Dewan Bandaraya Kuala Lumpur  
Federation of Malaysian Manufacturers  
Jabatan Bomba dan Penyelamat Malaysia  
Jabatan Kerajaan Tempatan  
Jabatan Kerja Raya Malaysia  
Malaysian Timber Council  
Malaysian Timber Industry Board  
Master Builders Association Malaysia  
Pertubuhan Akitek Malaysia  
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Projek Lebuhraya Utara-Selatan Berhad  
Real Estate and Housing Developers' Association Malaysia  
SIRIM Berhad (Secretariat)  
Suruhanjaya Perkhidmatan Air Negara  
The Cement and Concrete Association of Malaysia  
The Institution of Engineers, Malaysia  
Universiti Sains Malaysia  
Universiti Teknologi Malaysia

The Technical Committee on Earthquake which recommended the adoption of the EN Standard as Malaysian Standard is managed by The Institution of Engineers, Malaysia in its capacity as an authorised Standards-Writing Organisation and consists of representatives from the following organisations:

Association of Consulting Engineers Malaysia  
Construction Research Institute of Malaysia  
HSS Engineering Sdn Bhd  
IKRAM QA Services Sdn Bhd  
Jabatan Kerja Raya Malaysia  
Jabatan Meteorologi Malaysia  
Malaysian Rubber Board  
Master Builders Association Malaysia  
MC Hee & Associates  
Pertubuhan Akitek Malaysia  
Perunding Bersatu Sdn Bhd  
The Institution of Engineers, Malaysia (Secretariat)  
The Institution of Structural Engineers  
Universiti Malaya  
Universiti Sains Malaysia  
Universiti Teknologi Malaysia  
Universiti Teknologi MARA  
Universiti Tunku Abdul Rahman  
YL Design Consultancy Services

**National foreword**

The adoption of the EN Standard as a Malaysian Standard was recommended by the Technical Committee on Earthquake under the authority of the Industry Standards Committee on Building, Construction and Civil Engineering. Development of this standard was carried out by The Institution of Engineers, Malaysia which is the Standards-Writing Organisation (SWO) appointed by SIRIM Berhad to develop standards related to code of practice for design of structures for earthquake.

This Malaysian Standard is identical with EN 1998-1:2004, *Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings*, published by the European Committee for Standardization (CEN). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, “this European Standard” should read “this Malaysian Standard”;
- b) the comma which is used as a decimal sign (if any), to read as a point;
- c) reference to European Standards should be replaced by corresponding Malaysian Standards as follows:

<u>Referenced European Standards</u>	<u>Corresponding Malaysian Standards</u>
EN 1990, <i>Eurocode - Basis of structural design</i>	MS EN 1990, <i>Eurocode - Basis of structural design</i>
EN 1992-1-1, <i>Eurocode 2 - Design of concrete structures - Part 1-1: General - Common rules for building and civil engineering structures</i>	MS EN 1992-1-1, <i>Eurocode 2 - Design of concrete structures - Part 1-1: General - Common rules for building and civil engineering structures</i>
EN 1993-1-1, <i>Eurocode 3 - Design of steel structures - Part 1-1: General - General rules</i>	MS EN 1993-1-1, <i>Eurocode 3 - Design of steel structures - Part 1-1: General - General rules</i>
EN 1997-1, <i>Eurocode 7 - Geotechnical design - Part 1: General rules</i>	MS EN 1997-1, <i>Eurocode 7 - Geotechnical design - Part 1: General rules</i>

- 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 1000, <i>SI units and recommendations for the use of their multiples and of certain other units</i>	MS ISO 1000, <i>SI units and recommendations for the use of their multiples and of certain other units</i>

**National foreword** (*continued*)

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