



# MALAYSIAN STANDARD

MS EN 1991-1-4:2017

**Eurocode 1: Actions on structures - Part 1-4:  
General actions - Wind actions**

**ICS: 91.010.30**

Descriptors: actions, wind, structures

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Malaysian Standards (MS) are developed through consensus by committees which comprise balanced representation of producers, users, consumers and others with relevant interests, as may be appropriate to the subject at 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.

For the purposes of Malaysian Standards, the following definitions apply:

**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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**Amendment:** A process where a provision(s) of existing Malaysian Standard is altered. The changes are indicated in an amendment page which is incorporated into the existing Malaysian Standard. Amendments can be of technical and/or editorial nature.

**Technical corrigendum:** A corrected reprint of the current edition which is issued to correct either a technical error or ambiguity in a Malaysian Standard inadvertently introduced either in drafting or in printing and which could lead to incorrect or unsafe application of the publication.

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  
Federation of Malaysian Manufacturers  
Jabatan Bomba dan Penyelamat Malaysia  
Jabatan Kerajaan Tempatan  
Jabatan Kerja Raya Malaysia  
Malaysian Iron and Steel Industry Federation  
Malaysian Timber Industry Board  
Master Builders Association Malaysia  
Pertubuhan Akitek Malaysia  
Pertubuhan Perancang Malaysia  
PLUS Malaysia 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 Putra Malaysia  
Universiti Sains Malaysia  
Universiti Teknologi Malaysia

The Technical Committee on Wind Load which recommended the adoption of the EN Standard as Malaysian Standards consists of representatives from the following organisations:

BMT Fluid Mechanics  
H&T Consulting Engineers Sdn Bhd  
Jabatan Meteorologi Malaysia  
Master Builders Association Malaysia  
SEGi University  
SIRIM Berhad (Secretariat)  
Tesonic (M) Sdn Bhd  
The Institution of Engineers, Malaysia  
The Institution of Structural Engineers  
Universiti Malaya  
Universiti Teknologi MARA  
YL Design Consultancy Services

# MS EN 1991-1-4:2017

## Foreword

The adoption of the EN Standard as a Malaysian Standard was recommended by the Technical Committee on Wind Load under the authority of the Industry Standards Committee on Building, Construction and Civil Engineering.

This Malaysian Standard is identical with EN 1991-1-4:2005+A1, *Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions*, 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; and
- c) reference to European Standards should be replaced by corresponding Malaysian Standards as follows:

### Referenced European Standards

### Corresponding Malaysian Standards

EN 1990, *Eurocode - Basis of structural design*

MS EN 1990:2010, *Eurocode - Basis of structural design*

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

English version

**Eurocode 1: Actions on structures - Part 1-4: General actions -  
Wind actions**

Eurocode 1: - Actions sur les structures - Partie 1-4:  
Actions générales - Actions du vent

Eurocode 1: Einwirkungen auf Tragwerke - Teil 1-4:  
Allgemeine Einwirkungen - Windlasten

This European Standard was approved by CEN on 4 June 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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