



MALAYSIAN STANDARD

MS EN 1990:2010

EUROCODE - BASIS OF STRUCTURAL DESIGN

ICS: 91.010.30

Descriptors: eurocode, basis, structural design

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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
Department of Standards Malaysia
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerja Raya Malaysia
Malaysian Timber Industry Board
Master Builders Association Malaysia
Ministry of Energy, Green Technology and Water
Ministry of International Trade and Industry
National Housing Department
Pertubuhan Akitek Malaysia
SIRIM Berhad (Secretariat)
The Chartered Institute of Building Malaysia
The Institution of Engineers, Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Code of Practice for Design of Concrete Structures which recommended the adoption of the EN Standard was managed by The Institution of Engineers, Malaysia (IEM) in its capacity as an authorised Standards-Writing Organisation and consists of representatives from the following organisations:

Arup Jururunding Sdn Bhd
Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Jabatan Kerja Raya Malaysia
Masters Builders Association Malaysia
Perunding Bersatu
Perunding Hashim & Neh Sdn Bhd
The Cement and Concrete Association of Malaysia
The Institution of Engineers, Malaysia (Secretariat)
The Institution of Structural Engineers, Malaysia Division
Universiti Malaya
Universiti Teknologi Malaysia
Universiti Teknologi MARA
Universiti Tenaga Nasional
VSL Engineers (M) Sdn Bhd
W Lee & Associates Sdn Bhd

NATIONAL FOREWORD

The adoption of the EN Standard as a Malaysian Standard was recommended by the Technical Committee on Code of Practice for Design of Concrete Structures 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 for concrete structures.

This Malaysian Standard is identical with EN 1990:2002, *Eurocode - Basis of structural design*, published by the European Committee for Standardization (CEN) with the exceptions as listed below.

MALAYSIAN STANDARD EXCEPTIONS

- 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) this standard shall be used together with *Malaysia National Annex to Eurocode - Basis of structural design*, which is published in a separate document to fulfil Malaysia requirement; and
- d) reference to EN standards should be replaced by corresponding Malaysian Standards where available.

This standard is published with the permission of the European Committee for Standardization. Such permission is hereby acknowledged.

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

English version

Eurocode - Basis of structural design

(includes amendment A1:2005)

Eurocodes structuraux - Eurocodes: Bases de calcul des structures
(inclut l'amendement A1:2005)

Eurocode: Grundlagen der Tragwerksplanung
(enthält Änderung A1:2005)

This European Standard was approved by CEN on 29 November 2001; amendment A1:2005 was approved by CEN on 14 October 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 Management Centre 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 Management Centre has the same status as the official versions.

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



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