SINGAPORE STANDARD

SS EN 1993-1-12 : 2009

EN 1993-1-12 : 2007, IDT

(ICS 91.010.30; 91.080.10)

Eurocode 3 – Design of steel structures –

Part 1-12 : Additional rules for the extension of EN 1993 up to steel grades S 700

This national standard is the identical implementation of EN 1993-1-12 : 2007 and is adopted with permission of CEN, Rue de Stassart 36, B-1050 Brussels

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Head
Standardisation Department
SPRING Singapore
2 Bukit Merah Central
Singapore 159835
Telephone: 62786666 Telefax: 62786667
Email: stn@spring.gov.sg

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National Foreword

This Singapore Standard was prepared by the Technical Committee on Building Structure and Sub-structure under the purview of the Building and Construction Standards Committee.

This SS EN is the identical implementation of EN 1993-1-12 : 2007 'Eurocode 3 : Design of steel structures – Part 1-12 : Additional rules for the extension of EN 1993 up to steel grades S 700' including its Corrigendum EN 1993-1-12 : 2007 / AC : 2009 (incorporated after the main text) and is adopted with the permission of CEN, Rue de Stassart 36, B-1050 Brussels.

Attention is drawn to the following:

– The comma has been used throughout as a decimal marker whereas in Singapore Standards, it is a practice to use a full point on the baseline as the decimal marker.

– The Singapore Standards which implement international or European publications referred to in this document may be found in the SS Electronic Catalogue at: http://www.singaporestandardseshop.sg

The EN gives values with notes indicating where national choices may be made. Where a normative part of the EN allows for national choice to be made, the range and possible choice will be given in the normative text, and a note will qualify it as a Nationally Determined Parameter (NDP). NDPs can be a specific value for a factor, a specific level or class, a particular method or a particular application rule if several are proposed in the EN.

The requirements of this SS EN 1993-1-12 : 2007 are to be read in conjunction with the Singapore National Annex (NA) to SS EN 1993-1-12 : 2007 which contains information on the Singapore Nationally Determined Parameters and is published separately.

National choice is allowed in EN 1993-1-12 through the following clauses:

– 2.1 (3.1(2))
– 2.1 (3.2.2(1))
– 2.1 (5.4.3(1))
– 2.1 (6.2.3(2))
– 2.8 (4.2(2))
– 3 (1)

At the time of publication, this standard is expected to be used as a reference in the Building and Construction Authority's 'Approved Document – Acceptable Solutions'.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. SPRING Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The changes in Singapore Standards are documented through the issue of either amendments or revisions.*

2. *Compliance with a Singapore Standard does not exempt users from legal obligations.*

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1993-1-12

February 2007

ICS 91.010.30; 91.080.10

English Version

Eurocode 3 - Design of steel structures - Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700

Eurocode 3 - Calcul des structures en acier - Partie 1-12 : Règles additionnelles pour l'utilisation de l'EN 1993 jusqu'à la nuance d'acier S 700

Eurocode 3: Bemessung und Konstruktion von Stahlbauten - Teil 1-12: Zusätzliche Regeln zur Erweiterung von EN 1993 auf Stahlsorten bis S 700

This European Standard was approved by CEN on 6 July 2006.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard EN 1993-1-12, “Eurocode 3: Design of steel structures: Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700”, has been prepared by Technical Committee CEN/TC250 « Structural Eurocodes », the Secretariat of which is held by BSI. CEN/TC250 is responsible for all Structural Eurocodes.

This European Standard shall be given the status of a National Standard, either by publication of an identical text or by endorsement, at the latest by August 2007, and conflicting National Standards shall be withdrawn at latest by March 2010.

According to the CEN-CENELEC Internal Regulations, the National Standard Organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

National annex for EN 1993-1-12

This standard gives alternative procedures, values and recommendations with notes indicating where national choices may have to be made. Therefore the National Standard implementing EN 1993-1-12 should have a National annex containing all Nationally Determined Parameters to be used for the design of steel structures to be constructed in the relevant country.

National choice is allowed in EN 1993-1-12 through:

- **2.1** (3.1(2))
- **2.1** (3.2.2(1))
- **2.1** (5.4.3(1))
- **2.1** (6.2.3(2))
- **2.8** (4.2(2))
- **3** (1)

1 General

1.1 Scope

(1) This EN 1993-1-12 gives rules that can be used in conjunction with parts

- EN1993-1-1
- EN 1993-1-2
- EN 1993-1-3
- EN 1993-1-4
- EN 1993-1-5
- EN 1993-1-6
- EN 1993-1-7
- EN 1993-1-8