

Eurocode 3: Design of steel structures —

Part 1-9: Fatigue

ICS 91.010.30

National Foreword

This British Standard is the UK implementation of EN 1993-1-9:2005, incorporating corrigenda December 2005 and April 2009. It supersedes DD ENV 1993-1-1:1992, which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN corrigendum. For example, text altered by December 2005 corrigendum is indicated by $\boxed{\text{AC}_1}$ $\overline{\text{AC}_1}$.

The structural Eurocodes are divided into packages by grouping Eurocodes for each of the main materials: concrete, steel, composite concrete and steel, timber, masonry and aluminium; this is to enable a common date of withdrawal (DOW) for all the relevant parts that are needed for a particular design. The conflicting national standards will be withdrawn at the end of the co-existence period, after all the EN Eurocodes of a package are available.

Following publication of the EN, there is a period allowed for national calibration during which the National Annex is issued, followed by a co-existence period of a maximum three years. During the co-existence period Member States are encouraged to adapt their national provisions. At the end of this co-existence period, the conflicting parts of national standard(s) will be withdrawn.

In the UK, the primary corresponding national standards are:

BS 5400-10:1980, *Steel, concrete and composite bridges. Code of practice for fatigue*

BS 7608:1993, *Code of practice for fatigue design and assessment of steel structures*

BS EN 1993-1-9 partially supersedes BS 5400-10, which will be withdrawn by March 2010. BS 7608 is being retained as it covers steel structures outside the scope of the Eurocode standards. It is, however, being revised to remove conflicting material, in the meantime the UK committee advises users to read BS 7608 in conjunction with this standard.

This British Standard, was published under the authority of the Standards Policy and Strategy Committee on 18 May 2005

© BSI 2010

Amendments/corrigenda issued since publication

Amd. No.	Date	Comments
16292 Corrigendum No.1	June 2006	Implementation of CEN corrigendum December 2005
16570 Corrigendum No.2	29 September 2006	Revision of national foreword and supersession details
	28 February 2010	Implementation of CEN corrigendum April 2009

The UK participation in its preparation was entrusted by Technical Committee B/525, *Building and civil engineering structures*, to Subcommittee B/525/31, *Structural use of steel*.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

Where a normative part of this EN allows for a choice to be made at the national level, the range and possible choice will be given in the normative text as Recommended Values, 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.

To enable EN 1993-1-9 to be used in the UK, the NDPs have been published in a National Annex, which has been issued separately by BSI.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.