

# Eurocode 1 — Actions on structures —

## Part 1-7: General actions — Accidental actions

ICS 91.010.30

## National foreword

This British Standard is the UK implementation of EN 1991-1-7:2006+A1:2014, incorporating corrigendum February 2010. It supersedes BS EN 1991-1-7:2006, which is withdrawn.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags. Text altered by CEN corrigendum February is indicated in the text by AC1 AC1.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CEN text carry the number of the CEN amendment. For example, text altered by CEN amendment A1 is indicated by A1 A1.

CEN amendment A1:2014 introduces a revised informative Annex, Annex D. The UK committee noted technical errors in subclause D.4 regarding explosions in ducts. Annex D of BS EN 1991-1-7:2006+A1:2014 can therefore be used only if it is complemented by further guidance available in the forthcoming PD 6688-1-7.

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 The conflicting national standards will be withdrawn at the end of the coexistence period, after all the EN Eurocodes of a package are available.

In the UK, the following national standards are superseded by the Eurocode 1 series. These standards will be withdrawn on a date to be announced.

| Eurocode    | Superseded British Standards   |
|-------------|--------------------------------|
| EN 1991-1-1 | BS 6399-1:1996                 |
| EN 1991-1-2 | none                           |
| EN 1991-1-3 | BS 6399-3:1998                 |
| EN 1991-1-4 | BS 6399-2:1997, BS 5400-2:2006 |
| EN 1991-1-5 | BS 5400-2:2006                 |
| EN 1991-1-6 | none                           |
| EN 1991-1-7 | BS 5400-2:2006                 |
| EN 1991-2   | BS 5400-1:1998, BS 5400-2:2006 |
| EN 1991-3   | none                           |
| EN 1991-4   | none                           |

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|---------------|-------------------------------------------------|
| 30 April 2010 | Implementation of CEN corrigendum February 2010 |
| 31 July 2014  | Implementation of CEN amendment A1:2014         |
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The UK participation in its preparation was entrusted by Technical Committee B/525, Building and civil engineering structures, to Subcommittee B/525/1, Actions (loadings) and basis of design.

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, 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 BS EN 1991-1-7:2006+A1:2014 to be used in the UK, the latest version of the NA to this Standard containing these NDPs should also be used. At the time of publication, it is NA+A1:2014 to BS EN 1991-1-7:2006+A1:2014.

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.**



English Version

## Eurocode 1 - Actions on structures - Part 1-7: General actions - Accidental actions

Eurocode 1 - Actions sur les structures Partie 1-7: Actions  
générales - Actions accidentelles

Eurocode 1 - Einwirkungen auf Tragwerke - Teil 1-7:  
Allgemeine Einwirkungen - Außergewöhnliche  
Einwirkungen

This European Standard was approved by CEN on 9 January 2006.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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| <b>Contents</b>                                                                                                       | <b>Page</b> |
|-----------------------------------------------------------------------------------------------------------------------|-------------|
| <b>FOREWORD .....</b>                                                                                                 | <b>4</b>    |
| BACKGROUND OF THE EUROCODE PROGRAMME.....                                                                             | 4           |
| STATUS AND FIELD OF APPLICATION OF EUROCODES .....                                                                    | 5           |
| NATIONAL STANDARDS IMPLEMENTING EUROCODES .....                                                                       | 6           |
| LINKS BETWEEN EUROCODES AND HARMONISED TECHNICAL SPECIFICATIONS (ENS AND ETAs) FOR PRODUCTS .....                     | 6           |
| ADDITIONAL INFORMATION SPECIFIC TO EN 1991-1-7 .....                                                                  | 7           |
| NATIONAL ANNEX .....                                                                                                  | 7           |
| <b>SECTION 1     GENERAL.....</b>                                                                                     | <b>9</b>    |
| 1.1 SCOPE .....                                                                                                       | 9           |
| 1.2 NORMATIVE REFERENCES .....                                                                                        | 9           |
| 1.3 ASSUMPTIONS.....                                                                                                  | 10          |
| 1.4 DISTINCTION BETWEEN PRINCIPLES AND APPLICATION RULES .....                                                        | 10          |
| 1.5 TERMS AND DEFINITIONS .....                                                                                       | 10          |
| 1.6 SYMBOLS .....                                                                                                     | 12          |
| <b>SECTION 2     CLASSIFICATION OF ACTIONS.....</b>                                                                   | <b>14</b>   |
| <b>SECTION 3     DESIGN SITUATIONS.....</b>                                                                           | <b>15</b>   |
| 3.1 GENERAL .....                                                                                                     | 15          |
| 3.2 ACCIDENTAL DESIGN SITUATIONS - STRATEGIES FOR IDENTIFIED ACCIDENTAL ACTIONS .....                                 | 16          |
| 3.3 ACCIDENTAL DESIGN SITUATIONS – STRATEGIES FOR LIMITING THE EXTENT OF LOCALISED FAILURE .....                      | 17          |
| 3.4 ACCIDENTAL DESIGN SITUATIONS – USE OF CONSEQUENCE CLASSES .....                                                   | 17          |
| <b>SECTION 4     IMPACT .....</b>                                                                                     | <b>19</b>   |
| 4.1 FIELD OF APPLICATION.....                                                                                         | 19          |
| 4.2 REPRESENTATION OF ACTIONS.....                                                                                    | 19          |
| 4.3 ACCIDENTAL ACTIONS CAUSED BY ROAD VEHICLES .....                                                                  | 20          |
| 4.3.1 <i>Impact on supporting substructures</i> .....                                                                 | 20          |
| 4.3.2 <i>Impact on superstructures</i> .....                                                                          | 22          |
| 4.4 ACCIDENTAL ACTIONS CAUSED BY FORK LIFT TRUCKS .....                                                               | 24          |
| 4.5 ACCIDENTAL ACTIONS CAUSED BY DERAILED RAIL TRAFFIC UNDER OR ADJACENT TO STRUCTURES .....                          | 25          |
| 4.5.1 <i>Structures spanning across or alongside operational railway lines</i> .....                                  | 25          |
| 4.5.2 <i>Structures located in areas beyond track ends</i> .....                                                      | 27          |
| 4.6 ACCIDENTAL ACTIONS CAUSED BY SHIP TRAFFIC .....                                                                   | 27          |
| 4.6.1 <i>General</i> .....                                                                                            | 27          |
| 4.6.2 <i>Impact from river and canal traffic</i> .....                                                                | 28          |
| 4.6.3 <i>Impact from seagoing vessels</i> .....                                                                       | 29          |
| 4.7 ACCIDENTAL ACTIONS CAUSED BY HELICOPTERS .....                                                                    | 30          |
| <b>SECTION 5     INTERNAL EXPLOSIONS.....</b>                                                                         | <b>31</b>   |
| 5.1 FIELD OF APPLICATION.....                                                                                         | 31          |
| 5.2 REPRESENTATION OF ACTION.....                                                                                     | 31          |
| 5.3 PRINCIPLES FOR DESIGN .....                                                                                       | 32          |
| <b>ANNEX A (INFORMATIVE) DESIGN FOR CONSEQUENCES OF LOCALISED FAILURE IN BUILDINGS FROM AN UNSPECIFIED CAUSE.....</b> | <b>33</b>   |
| A.1 SCOPE AND FIELD OF APPLICATION .....                                                                              | 33          |
| A.2 INTRODUCTION .....                                                                                                | 33          |
| A.3 CONSEQUENCES CLASSES OF BUILDINGS .....                                                                           | 33          |
| A.4 RECOMMENDED STRATEGIES.....                                                                                       | 34          |
| A.5 EFFECTIVE HORIZONTAL TIES.....                                                                                    | 36          |

|                                                                                          |           |
|------------------------------------------------------------------------------------------|-----------|
| A.5.1 Framed structures.....                                                             | 36        |
| A.5.2 Load-bearing wall construction.....                                                | 37        |
| A.6 EFFECTIVE VERTICAL TIES .....                                                        | 39        |
| A.7 NOMINAL SECTION OF LOAD-BEARING WALL .....                                           | 39        |
| A.8 KEY ELEMENTS .....                                                                   | 39        |
| <b>ANNEX B (INFORMATIVE) INFORMATION ON RISK ASSESSMENT .....</b>                        | <b>40</b> |
| B.1 INTRODUCTION.....                                                                    | 40        |
| B.2 DEFINITIONS .....                                                                    | 41        |
| B.3 DESCRIPTION OF THE SCOPE OF A RISK ANALYSIS.....                                     | 41        |
| B.4 METHODS OF RISK ANALYSIS .....                                                       | 42        |
| B.4.1 Qualitative risk analysis .....                                                    | 42        |
| B.4.2 Quantitative risk analysis .....                                                   | 42        |
| B.5 RISK ACCEPTANCE AND MITIGATING MEASURES .....                                        | 43        |
| B.6 RISK MITIGATING MEASURES .....                                                       | 45        |
| B.7 MODIFICATION .....                                                                   | 45        |
| B.8 COMMUNICATION OF RESULTS AND CONCLUSIONS.....                                        | 45        |
| B.9 APPLICATIONS TO BUILDINGS AND CIVIL ENGINEERING STRUCTURES .....                     | 46        |
| B.9.1 General.....                                                                       | 46        |
| B.9.2 Structural risk analysis.....                                                      | 47        |
| B.9.3 Modelling of risks from extreme load events.....                                   | 48        |
| B.9.4 Guidance for application of risk analysis related to impact from rail traffic..... | 51        |
| <b>ANNEX C (INFORMATIVE) DYNAMIC DESIGN FOR IMPACT .....</b>                             | <b>53</b> |
| C.1 GENERAL .....                                                                        | 53        |
| C.2 IMPACT DYNAMICS .....                                                                | 53        |
| C.2.1 Hard Impact .....                                                                  | 53        |
| C.2.2 Soft Impact.....                                                                   | 54        |
| C.3 IMPACT FROM ABERRANT ROAD VEHICLES .....                                             | 55        |
| C.4 IMPACT BY SHIPS .....                                                                | 58        |
| C.4.1 Ship impact on inland waterways.....                                               | 58        |
| C.4.2 Ship impact for sea waterways .....                                                | 59        |
| C.4.3 Advanced ship impact analysis for inland waterways .....                           | 58        |
| C.4.4 Advanced ship impact analysis for sea waterways.....                               | 62        |
| <b>ANNEX D (INFORMATIVE) INTERNAL EXPLOSIONS.....</b>                                    | <b>63</b> |
| D.1 NATURAL GAS EXPLOSIONS .....                                                         | 63        |
| D.2 DUST EXPLOSIONS IN ROOMS, VESSELS AND BUNKERS .....                                  | 63        |
| D.3 EXPLOSIONS IN ROAD AND RAIL TUNNELS .....                                            | 65        |
| D.4 DUST, GAS AND VAPOUR/AIR EXPLOSIONS IN ENERGY DUCTS .....                            | 66        |
| D.4.1 General.....                                                                       | 66        |
| D.4.2 Vent area .....                                                                    | 67        |
| D.4.3 Critical distances.....                                                            | 67        |
| D.4.4 Design pressure .....                                                              | 68        |

## **Foreword**

This European Standard (EN 1991-1-7:2006) has been prepared on behalf of Technical Committee CEN/TC250 "Structural Eurocodes", the Secretariat of which is held by BSI.

CEN/TC 250 is responsible for all Structural Eurocodes.

This European Standard supersedes ENV 1991-2-7:1998.

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 January 2007 and conflicting national standards shall be withdrawn at the latest by March 2010.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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 the United Kingdom.

## **Foreword to amendment A1**

This document (EN 1991-1-7:2006/A1:2014) has been prepared by Technical Committee CEN/TC 250 "Structural Eurocodes", the secretariat of which is held by BSI.

This Amendment to the European Standard EN 1991-1-7:2006 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2015, and conflicting national standards shall be withdrawn at the latest by June 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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## **Background of the Eurocode programme**

In 1975, the Commission of the European Community decided on an action programme in the field of construction, based on Article 95 of the Treaty. The objective of the programme was the elimination of technical obstacles to trade and the harmonisation of technical specifications.

Within this action programme, the Commission took the initiative to establish a set of harmonised technical rules for the design of construction works which, in a first stage, would serve as an alternative to the national rules in force in the Member States and, ultimately, would replace them.

For fifteen years, the Commission, with the help of a Steering Committee with Representatives of Member States, conducted the development of the Eurocodes programme, which led to the first generation of European codes in the 1980s.