



**SLOVENSKI STANDARD**  
**SIST EN 1993-1-1:2005/kFprA1:2013**  
**01-marec-2013**

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**Evrokod 3: Projektiranje jeklenih konstrukcij - 1-1. del: Splošna pravila in pravila za stavbe**

Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings

Eurocode 3: Bemessung und Konstruktion von Stahlbauten - Teil 1-1: Allgemeine Bemessungsregeln und Regeln für den Hochbau

Eurocode 3: Calcul des structures en acier - Partie 1-1: Règles générales et règles pour les bâtiments

[SIST EN 1993-1-1:2005/A1:2014](https://standards.iteh.ai/catalog/standards/sist/1c46438c-6a48-49c8-b5c8-1151b6fbc2a/sist-en-1993-1-1-2005-a1-2014)  
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**Ta slovenski standard je istoveten z: EN 1993-1-1:2005/FprA1**

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**ICS:**

91.010.30	Tehnični vidiki	Technical aspects
91.080.10	Kovinske konstrukcije	Metal structures

**SIST EN 1993-1-1:2005/kFprA1:2013**      **en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**FINAL DRAFT**  
**EN 1993-1-1:2005**

**FprA1**

January 2013

ICS 91.010.30; 91.080.10

English Version

## Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings

Eurocode 3: Calcul des structures en acier - Partie 1-1:  
Règles générales et règles pour les bâtiments

Eurocode 3: Bemessung und Konstruktion von Stahlbauten  
- Teil 1-1: Allgemeine Bemessungsregeln und Regeln für  
den Hochbau

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 250.

This draft amendment A1, if approved, will modify the European Standard EN 1993-1-1:2005. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
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EN 1993-1-1:2005/FprA1:2013 (E)

<b>Contents</b>	<b>Page</b>
Foreword.....	3
1 Modification to National annex for EN 1993-1-1.....	4
2 Modification to 1.1.1.....	4
3 Modification to 2.1.2.....	4
4 Addition of Annex C, Selection of execution class .....	4

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## Foreword

This document (EN 1993-1-1:2005/FprA1:2013) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI.

This document is currently submitted to the Unique Acceptance Procedure.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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**EN 1993-1-1:2005/FprA1:2013 (E)****1 Modification to National annex for EN 1993-1-1**

*In the 2<sup>nd</sup> paragraph, at the end of the list, add the two last list entries:*

"

- C.2.2(3)
- C.2.2(5)".

**2 Modification to 1.1.1**

*In Paragraph (3), replace:*

"

- EN 1090 "Execution of Steel Structures – Technical requirements"

*with:*

"

- EN 1090-1 "Execution of steel structures and aluminium structures – Part 1: Requirements for conformity assessment of structural components"
- EN 1090-2 "Execution of steel structures and aluminium structures – Part 2: Technical requirements for steel structures"

**3 Modification to 2.1.2**

*Replace the whole subclause with the following one:*

"

**2.1.2 Reliability management**

(1)P With respect to the application of EN 1090-1 and -2, execution classes shall be selected in accordance with Annex C in this standard.

(2) If different levels of reliability are required, these levels should preferably be achieved by an appropriate choice of quality management in design and execution, according to EN 1990, Annex B and Annex C, and EN 1090."

**4 Addition of Annex C, Selection of execution class**

*At the end of the document, add the following new annex:*

## Annex C [normative] – Selection of execution class

### C.1 General

#### C.1.1 Scope

(1)P This annex provides the basis for the selection of the appropriate execution class necessary to obtain the reliability of the completed works required according to EN 1990.

#### C.1.2 Execution class

(1) Execution class (EXC) is defined as a classified set of requirements specified for the execution of the works as a whole, of an individual component or of a detail of a component.

(2) In order to specify requirements for the execution of steel structures to EN 1090-1 and -2, the choice of execution class, EXC1, EXC2, EXC3 or EXC4, should be made prior to the commencement of execution. The execution requirements are progressively more onerous from EXC1 up to EXC4.

**NOTE 1** EN 1993 and EN 1994 are based on the assumption that they are used in conjunction with EN 1090-1 and -2. EN 1993-1-9, EN 1993-2, EN 1993-3-1 and EN 1993-3-2 give supplementary requirements to EN 1090-2 for the execution of structures or components or details subject to fatigue actions. In addition to EN 1090-2, EN 1993-5 refers to other European Standards for the execution of piling works.

**NOTE 2** EN 1090-2 states that EXC2 applies if no execution class is specified.

### C.2 Selection process

#### C.2.1 Governing factors

(1) The selection of the execution class should be based on the following factors:

- the required reliability;
- the type of structure, component or detail; and
- the type of loading for which the structure, component or detail is designed.

#### C.2.2 Selection

(1) In terms of reliability management, the selection of execution class should be based on either the required consequences class (CC) or the reliability class (RC) or both. The concepts of reliability class and consequences class are defined in EN 1990.

(2) In terms of the type of loading applied to a steel structure or component or detail, the selection of execution class should be based on whether the structure or component or detail is designed for static actions, quasi-static actions, fatigue actions, seismic actions or otherwise.