



**SLOVENSKI STANDARD**  
**SIST EN 1993-1-2:2005/AC:2009**  
**01-junij-2009**

**BUXca Yý U**  
**SIST EN 1993-1-2:2005/AC:2006**

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**Evrokod 3: Projektiranje jeklenih konstrukcij - 1-2. del: Splošna pravila -  
Požarnoodporno projektiranje**

Eurocode 3: Design of steel structures - Part 1-2: General rules - Structural fire design

Eurocode 3: Bemessung und Konstruktion von Stahlbauten - Teil 1-2: Allgemeine Regeln  
- Tragwerksbemessung für den Brandfall

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Eurocode 3 - Calcul des structures en acier - Partie 1-2 : Règles générales - Calcul du  
comportement au feu

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**Ta slovenski standard je istoveten z: EN 1993-1-2:2005/AC:2009**

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**ICS:**

13.220.50	Požarna odpornost gradbenih materialov in elementov	Fire-resistance of building materials and elements
91.010.30	V^@ã}ãããã	Technical aspects
91.080.10	Kovinske konstrukcije	Metal structures

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EUROPEAN STANDARD

**EN 1993-1-2:2005/AC**

NORME EUROPÉENNE

March 2009

EUROPÄISCHE NORM

Mars 2009

März 2009

ICS 13.220.50; 91.010.30; 91.080.10

English version  
Version Française  
Deutsche Fassung

Eurocode 3: Design of steel structures - Part 1-2: General rules - Structural fire design

Eurocode 3 - Calcul des structures en acier  
- Partie 1-2 : Règles générales - Calcul du  
comportement au feu

Eurocode 3: Bemessung und Konstruktion  
von Stahlbauten - Teil 1-2: Allgemeine  
Regeln - Tragwerksbemessung für den  
Brandfall

This corrigendum becomes effective on 18 March 2009 for incorporation in the three official language versions of the EN.

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Ce corrigendum prendra effet le 18 mars 2009 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 18. März 2009 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

<https://standards.iteh.ai/catalog/standards/sist/d7c8cdd8-ba7d-47c6-8acd-61b89a7604fd/sist-en-1993-1-2-2005-ac-2009>



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

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Ref. No.: EN 1993-1-2:2005/AC:2009 D/E/F

**EN 1993-1-2:2005/AC:2009 (E)****Modifications due to EN 1993-1-2:2005/AC:2005****1) Modifications to Subclauses 2.1.1, 2.4.1 and 4.2.1**

*The corrections are to add a "P" after the clause number and replace "should" with "shall" where appropriate. The corrections are underlined as shown.*

**'2.1.1 Basic requirements'**

"(1)P Where mechanical resistance in the case of fire is required, steel structures shall be designed and constructed in such a way that they maintain their load bearing function during the relevant fire exposure."

**'2.4.1 General'**

"(2)P It shall be verified that, during the relevant duration of fire exposure  $t$  :"

**'4.2.1 General'**

"(1)P The load-bearing function of a steel member shall be assumed to be maintained after a time  $t$  in a given fire if:"

**Modifications due to EN 1993-1-2:2005/AC:2009****2) Modification to Subclause 1.2**

Delete:

"

EN 10155 Structural steels with improved atmospheric corrosion resistance - Technical delivery conditions;

".

**3) Modifications to Subclause 1.6**

Change the dimension of  $A_p$  "[m<sup>2</sup>]" into: "[m<sup>2</sup>/m]".

Change the reduction factor determined for the appropriate bolt temperature " $k_{b,..}$ " into: " $k_{b,\theta}$ ".

Change the strength reduction factor for welds " $k_{w,..}$ " into: " $k_{w,\theta}$ ".

**4) Modifications to Subclause 4.2.3.3**

Paragraph '(3)', equation '(4.10)', change " $\kappa_1\kappa_2$ " into: " $(\kappa_1\kappa_2)$ ".

Paragraph '(3)', equation '(4.10)', add the condition:

"

$$M_{fi,\theta,Rd} \leq M_{Rd}$$

".

**5) Modifications to Subclause 4.2.3.4**

Paragraph '(2)', 9<sup>th</sup> line: delete: ", see 3".

Paragraph '(2)', equation '(4.18)', change " $\kappa_1\kappa_2$ " into: " $(\kappa_1\kappa_2)$ ".

Paragraph '(2)', equation '(4.18)', add the condition:

"

$$M_{fi,\theta,Rd} \leq M_{Rd}$$

".

**6) Modifications to Subclause 4.2.3.5**

Paragraph '(1)', change the formulae for " $\mu_y$ ":

"

For the strong axis:

$$\mu_y = (2\beta_{M,y} - 5)\bar{\lambda}_{y,\theta} + 0,44\beta_{M,y} + 0,29 \leq 0,8 \text{ with } \bar{\lambda}_{y,20^\circ C} \leq 1,1.$$

"

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Paragraph '(1)', change the formulae for " $\mu_z$ " as follows:

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" <https://standards.iteh.ai/catalog/standards/sist/d7c8cdd8-ba7d-47c6-8acd-61b89a7604fd/sist-en-1993-1-2-2005-ac-2009>

For the weak axis:

$$\mu_z = (1,2\beta_{M,z} - 3)\bar{\lambda}_{z,\theta} + 0,71\beta_{M,z} - 0,29 \leq 0,8$$

"

**7) Modifications to Subclause 4.2.4**

Paragraph '(2)', 1<sup>st</sup> line: change "when stability phenomena have" into: "when instability phenomena have".

Paragraph '(4)', change the current reference for ' $\eta_{fi}$ ' to "2.4.3(3)" into: "2.4.2(3)".

**8) Modifications to Subclause 4.2.5.1**

Paragraph '(1)', equation '(4.25)', change " $\dot{h}_{net}$ " into: " $\dot{h}_{net,d}$ ".

Paragraph '(1)', equation '(4.25)', list of definitions under 'where', change " $\dot{h}_{net}$ " into: " $\dot{h}_{net,d}$ ".

**9) Modifications to Annex A**

Equation '(A.1c)', change " $\sigma$ " into " $\sigma_a$ ".

**EN 1993-1-2:2005/AC:2009 (E)**

Equation '(A.2b)', change "  $\theta a$  " into: "  $\theta_a$  ".

**10) Modification to Subclause B.4**

Paragraph '(1)', equation '(B.18)', replace the equation with:

“

$$I_z = \frac{(I_{z,1} + I_{z,2}) \cdot d_1 + (I_{z,3} + I_{z,4}) \cdot d_2}{(C_1 + C_2) \cdot d_1 + (C_3 + C_4) \cdot d_2}$$

”

**11) Modification to Subclause B.5.1.1**

Paragraph '(5)', equation '(B.21)', replace the equation with:

“

$$I_z = \frac{(I_{z,1} + I_{z,2}) \cdot d_1 + (I_{z,3} + I_{z,4}) \cdot d_2}{(C_1 + C_2) \cdot d_1 + (C_3 + C_4) \cdot d_2}$$

”

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**12) Modification to Subclause B.5.3**

Paragraph '(1)', add after equation '(B.26)': [SIST EN 1993-1-2:2005/AC:2009  
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where:

$h$  is the height of the opening. See figure B.7b) (height is noted as  $\lambda_1$ ).

”

**13) Modification to Subclause C.2.2**

Figure C.1, change the expression for 'Tangent Modulus' for ' $\varepsilon_{c,\theta} < \varepsilon \leq \varepsilon_{u,\theta}$ ':

“

$$\frac{d + (\varepsilon_{u,\theta} - \varepsilon)}{c \sqrt{c^2 - (\varepsilon_{u,\theta} - \varepsilon)^2}}$$

”

into:

“

$$\frac{d \cdot (\varepsilon_{u,\theta} - \varepsilon)}{c \sqrt{c^2 - (\varepsilon_{u,\theta} - \varepsilon)^2}}$$

“.

#### 14) Modification to Subclause C.3.2

Paragraph '(1)', 'NOTE', change "Figure C,3" into: "Figure C.3" in the title of this figure.

#### 15) Modifications to Subclause D.1.1.1

Paragraph '(1)', change in the description of the variables of equation '(D.1)' " $k_{b,..}$ " into: " $k_{b,\theta}$ ".

Paragraph '(2)', change in the description of the variables of equation '(D.2)' " $k_{b,..}$ " into: " $k_{b,\theta}$ ".

#### 16) Modifications to Subclause D.1.2.1

Paragraph '(1)', change in the description of the variables of equation '(D.3)' " $k_{b,..}$ " into: " $k_{b,\theta}$ ".

'Table D.1', change in the top row of the table " $k_{b,..}$ " into: " $k_{b,\theta}$ ", and " $k_{w,..}$ " into: " $k_{w,\theta}$ ".

#### 17) Modifications to Subclause D.2.2

Paragraph '(1)', change in the description of the variables of equation '(D.4)' " $k_{w,..}$ " into: " $k_{w,\theta}$ ".

Paragraph '(1)', change the reference to "EN1 993-1-8" into: "EN 1993-1-8".

#### 18) Modifications to Subclause E.2

Paragraph '(5)', change "... for the design yield strength of stainless steels relative to the yield strength..." into: "... for the design proof strength of stainless steels relative to the proof strength..."

'Table E.1', change in the top row of the table: " $k_{p0,2,\theta}$ " into: " $k_{0,2p,\theta}$ ".

'Figure E.2', change in the figure " $k_{p0,2,\theta}$ " and " $f_{p0,2,\theta}$ " into: " $k_{0,2p,\theta}$ " and " $f_{0,2p,\theta}$ ".