



**SLOVENSKI STANDARD**  
**SIST EN 1993-1-5:2007/A1:2017**  
**01-junij-2017**

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**Evrokod 3 - Projektiranje jeklenih konstrukcij - 1-5. del: Elementi pločevinaste konstrukcije**

Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements

Eurocode 3 - Bemessung und Konstruktion von Stahlbauten - Teil 1-5: Plattenförmige Bauteile

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Eurocode 3 - Calcul des structures en acier - Partie 1-5: Plaques planes

**Ta slovenski standard je istoveten z: EN 1993-1-5:2006/A1:2017**

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**ICS:**

91.010.30	Tehnični vidiki	Technical aspects
91.080.13	Jeklene konstrukcije	Steel structures

**SIST EN 1993-1-5:2007/A1:2017**                      **en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 1993-1-5:2006/A1**

April 2017

ICS 91.010.30; 91.080.13

English Version

## Eurocode 3 - Design of steel structures - Part 1-5: Plated structural elements

Eurocode 3 - Calcul des structures en acier - Partie 1-5 :  
Plaques planes

Eurocode 3 - Bemessung und Konstruktion von  
Stahlbauten - Teil 1-5: Plattenförmige Bauteile

This amendment A1 modifies the European Standard EN 1993-1-5:2006; it was approved by CEN on 17 January 2017.

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

**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 1993-1-5:2006/A1:2017) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

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## EN 1993-1-5:2006/A1:2017 (E)

**1 Modification to 6.5, Effective loaded length**

In Paragraph (3), replace “equations (6.11) and (6.12)” with “equations (6.10), (6.11) and (6.12)”.

**2 Modifications to Clause 10, Reduced stress method**

In Paragraph (5), List Entry b), delete NOTE 1 and NOTE 2.

In Paragraph (5), after List Entry b), insert the following new Entry c):

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c) In case of panels with biaxial compression, Formula (10.5a) should be used:

$$\left( \frac{\sigma_{x,Ed}}{\rho_x \cdot f_y / \gamma_{M1}} \right)^2 + \left( \frac{\sigma_{z,Ed}}{\rho_z \cdot f_y / \gamma_{M1}} \right)^2 - V \cdot \left( \frac{\sigma_{x,Ed}}{\rho_x \cdot f_y / \gamma_{M1}} \right) \cdot \left( \frac{\sigma_{z,Ed}}{\rho_z \cdot f_y / \gamma_{M1}} \right) + 3 \cdot \left( \frac{\tau_{Ed}}{\chi_w \cdot f_y / \gamma_{M1}} \right)^2 \leq 1 \quad (10.5a)$$

where

$V = \rho_x \cdot \rho_z$  when  $\sigma_{x,Ed}$  and  $\sigma_{z,Ed}$  are both compression, else  $V = 1$ .

Since verification Formulae (10.3), (10.4), (10.5) and (10.5a) include an interaction between shear force, bending moment, axial force and transverse force, Clause 7 should not be applied.

NOTE The national annex may give further information on the use of Formulae (10.4), (10.5) and (10.5a). In case of panels with tension and compression it is recommended to apply Formulae (10.4) and (10.5) only for the compressive parts.

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