SLOVENSKI STANDARD
SIST EN 1993-1-8:2024/oprA1:2026

01-junij-2026

Evrokod 3 - Projektiranje jeklenih konstrukcij - 1-8. del: Spoji

Eurocode 3 - Design of steel structures - Part 1-8: Joints

Eurocode 3 - Bemessung und Konstruktion von Stahlbauten - Teil 1-8: Anschlüsse

Eurocode 3 - Calcul des structures en acier - Partie 1-8 : Assemblages

Sample Document

Ta slovenski standard je istoveten z: **EN 1993-1-8:2024/prA1**

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ICS:

91.010.30	Tehnični vidiki	Technical aspects
91.080.13	Jeklene konstrukcije	Steel structures

SIST EN 1993-1-8:2024/oprA1:2026 **en,fr,de**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

DRAFT
EN 1993-1-8:2024

prA1

April 2026

ICS 91.010.30; 91.080.13

English Version

Eurocode 3 - Design of steel structures - Part 1-8: Joints

Eurocode 3 - Calcul des structures en acier - Partie 1-8 : Assemblages

Eurocode 3 - Bemessung und Konstruktion von Stahlbauten - Teil 1-8: Anschlüsse

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

This draft amendment A1, if approved, will modify the European Standard EN 1993-1-8:2024. 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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 1993-1-8:2024/prA1:2026) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI. CEN/TC 250 is responsible for all Structural Eurocodes and has been assigned responsibility for structural and geotechnical design matters by CEN.

This document is currently submitted to the CEN Enquiry.

This document will amend EN 1993-1-8:2024.

The following main changes to EN 1993-1-8:2024 are included in the amendment:

— revision of the requirements for ductility and rotation capacity of nominally pinned connections;

— revision of the requirements for evaluation of the design bearing resistance of the group of bolts per cleat on the supporting member in nominally pinned connections;

— correction of technical and editorial points in EN 1993-1-8:2024 to increase the clarity and user friendliness.

NOTE Some modifications are purely editorial corrections to improve the quality of the document and these will not be tagged in the consolidated publication, as noted after the modification.

The first generation of EN Eurocodes was published between 2002 and 2007. This document forms part of the second generation of the Eurocodes, which have been prepared under Mandate M/515 issued to CEN by the European Commission and the European Free Trade Association.

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The Eurocodes have been drafted to be used in conjunction with relevant execution, material, product and test standards, and to identify requirements for execution, materials, products and testing that are relied upon by the Eurocodes.

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The Eurocodes recognize the responsibility of each Member State and have safeguarded their right to determine values related to regulatory safety matters at national level through the use of National Annexes.

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1 Modifications to the Introduction

In 0.1, replace "— New parts are under development, e.g. Eurocode for design of structural glass"

with "— EN 19100, *Eurocode 10: Design of glass structures*".

Add the following new list item: "— New parts are under development, e.g. EN 19101 Eurocode 11 for design of fibre-polymer composite structures and EN 19102 Eurocode 12 for design of tensioned membrane structures.".

*In 0.2, first paragraph, replace the reference to "*EN 1990 — Basis of structural and geotechnical design" *with* "EN 1990-1 — Basis of structural and geotechnical design — Part 1: New structures*".*

Replace the list of the various parts of EN 1993 with:

"EN 1993-1-1, *Eurocode 3 — Design of Steel Structures — Part 1-1: General rules and rules for buildings*;

EN 1993-1-2, *Eurocode 3 — Design of Steel Structures — Part 1-2: Structural fire design*;

EN 1993-1-3, *Eurocode 3 — Design of Steel Structures — Part 1-3: Cold-formed members and sheeting*;

NOTE Cold-formed hollow sections supplied according to EN 10219 (all parts) are covered in EN 1993-1-1.

EN 1993-1-4, *Eurocode 3 — Design of Steel Structures — Part 1-4: Stainless steel structures*;

EN 1993-1-5, *Eurocode 3 — Design of Steel Structures — Part 1-5: Plated structural elements*;

EN 1993-1-6, *Eurocode 3 — Design of Steel Structures — Part 1-6: Strength and stability of shell structures*;

EN 1993-1-7, *Eurocode 3 — Design of Steel Structures — Part 1-7: Plate assemblies with elements under transverse loads*;

EN 1993-1-8, *Eurocode 3 — Design of Steel Structures — Part 1-8: Joints*;

EN 1993-1-9, *Eurocode 3 — Design of Steel Structures — Part 1-9: Fatigue*;

EN 1993-1-10, *Eurocode 3 — Design of Steel Structures — Part 1-10: Material toughness and through-thickness properties*;

EN 1993-1-11, *Eurocode 3 — Design of Steel Structures — Part 1-11: Tension components*;

EN 1993-1-12, *Eurocode 3 — Design of Steel Structures — Part 1-12: Additional rules for steel grades up to S960*;

EN 1993-1-13, *Eurocode 3 — Design of Steel Structures — Part 1-13: Beams with large web openings*;

EN 1993-1-14, *Eurocode 3 — Design of Steel Structures — Part 1-14: Design assisted by finite element analysis*;

EN 1993-2, *Eurocode 3 — Design of Steel Structures — Part 2: Bridges*;

EN 1993-3, *Eurocode 3 — Design of Steel Structures — Part 3: Towers, masts and chimneys*;

EN 1993-4-1, *Eurocode 3 — Design of Steel Structures — Part 4-1: Silos*;

EN 1993-4-2, *Eurocode 3 — Design of Steel Structures — Part 4-2: Tanks*;

EN 1993-5, *Eurocode 3 — Design of Steel Structures — Part 5: Piling*;

EN 1993-6, *Eurocode 3 — Design of Steel Structures — Part 6: Crane supporting structures*;

EN 1993-7, *Eurocode 3 — Design of Steel Structures — Part 7: Sandwich panels* (under preparation).".

2 Modification to Clause 1, "Scope"

In 1.1, paragraph (1), delete the NOTE and respective footnote.

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3 Modifications to Clause 2, "Normative references"

*Replace "*EN 1990, *Eurocode — Basis of structural and geotechnical design" with:*

"EN 1990-1, *Eurocode — Basis of structural and geotechnical design — Part 1: New structures"*

and update the reference throughout the document, replacing "EN 1990" *with* "EN 1990-1", *except in 0.1.*

4 Modifications to Clause 3, "Terms, definitions and symbols"

*In 3.2, under sub-heading "Clause 5", **r**eplace the symbol "$p_{1,0}$" with "$p_{1,o}$" and move after the symbol "$p_{1,i}$", so that symbols are listed in alphabetical order.*

*Under the sub-heading "Annex A", in the definition of symbol "$V_{wp,add,Rd}$", delete the word "*stiffened*".*

*Under the sub-heading "Annex A", in the definition of symbol "d_s", add "*or to the centre of compression in the case of a stiffener in the tension zone only*" after the word "*stiffeners*".*

*Under the sub-heading "Annex A", in the definition of symbol "h_{wc}", replace "*inner*" with "*clear*".*

*Under the sub-heading "Annex D", in the definition of symbol "$C_{f,d}$", replace "*coefficient of friction*" with "*design value of friction coefficient*".*

5 Modifications to Clause 4, "Basis of design"

In 4.3.1, NOTE 2, replace "EN 1990:2023" *with* "EN 1990-1:2023+A1:2026".

In 4.6, NOTE, replace "CEN/TR 1993-1-103" *with* "CEN/TR 1993-1-102" *and keep footnote.*

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6 Modifications to Clause 5, "Connections using bolts, rivets or pins"

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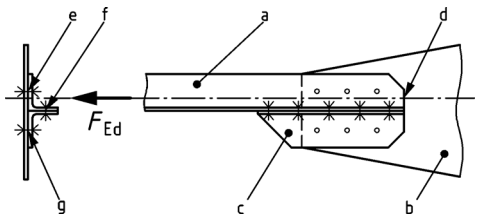
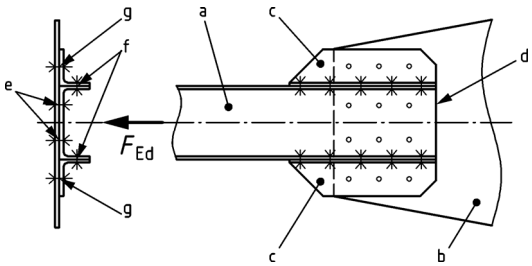
In 5.4.4, r*eplace Figure 5.1 with the following:*

"



a) connection of angle member and lug angle to the supporting part



b) connection of channel and lug angles to the supporting part

".

In 5.7.1, in Table 5.4:

- *in the 4th row (under 'Category B'), 1st sentence, replace* "criteria at ultimate" *with* "criterion at ultimate".
- *in the 10th row (under 'Category E'), 1st sentence, replace* "criteria at ultimate" *with* "criterion at ultimate".

In 5.7.3, replace Figure 5.2 and the figure title with the following new figure and key:

"

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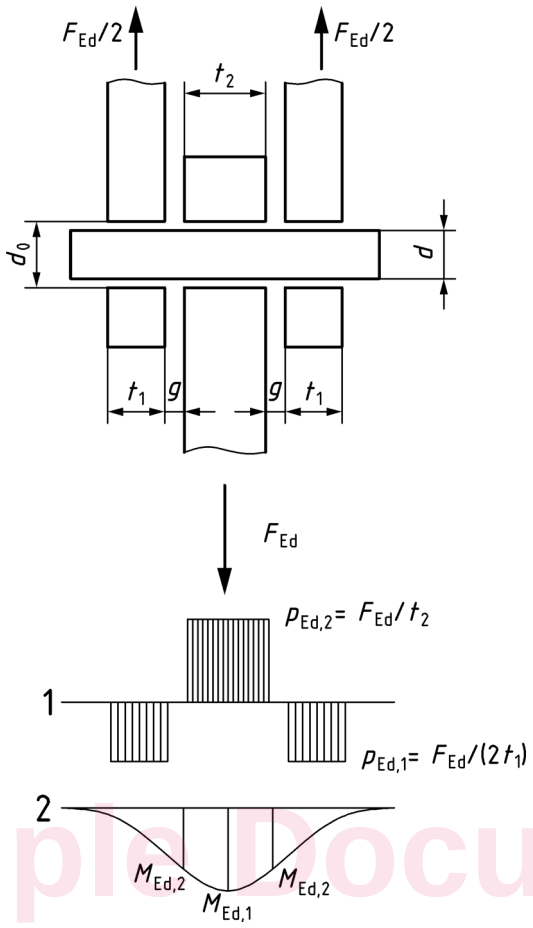

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Key

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1 load distribution

2 bending moment diagram

Figure 5.2 — Load distribution and bending moment diagram on the pin for a symmetrical pin connection with three connecting parts".

In 5.8, in Table 5.8:

— *in the 2nd row (in the header), last column, replace* "made from steels" *with* "made of steels".

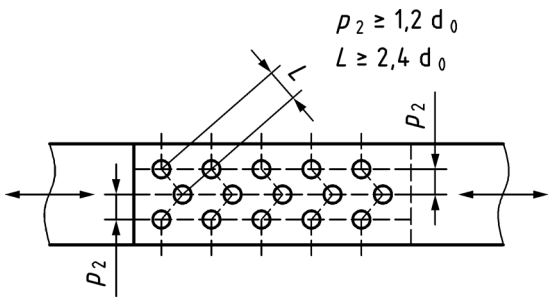
— *in the 8th and 11th rows, in the last column, replace* "$14t_{min}$" *with* "$14t$".

— *in the 9th row, 1st column, replace "$p_{1,0}$" with "$p_{1,o}$".*

In Figure 5.3:

— *replace Figure b) with the following:*

"



".

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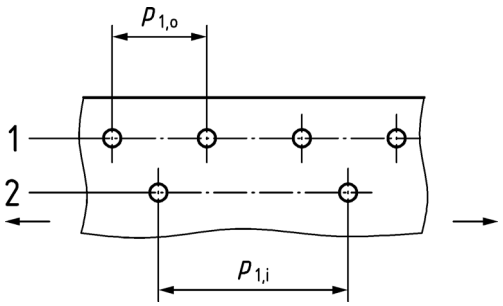
— *replace Figure d) with the following (which replaces "$p_{1,0}$" with "$p_{1,o}$"):*

"



".

— *in the definition of key item 1, replace "*(subscript "0")*" with "*(subscript "o")*".*

In 5.9.1, paragraph (3):

— *in the 2nd sentence, replace "*obtained*" with "*derived*";*

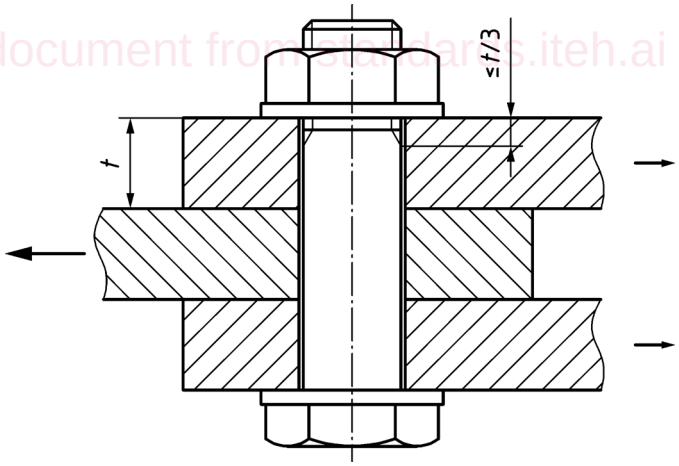
— *align the text in Formula (5.6) to the left (untagged);*

— *add the following NOTE after Formula (5.6):*

"NOTE Coefficient $\alpha_{b,red}$ represents the non-dimensional average bearing stress at a given non-dimensional bolt hole elongation and is determined from Formula (A.51).".

In 5.9.2, paragraph (2), replace Figure 5.8 with the following:

"



".

In 5.9.3, paragraph (3), replace Figure 5.9 b) with the following:

"

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