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Eurokod 3: Dimensionering av stålkonstruktioner – Del 1-8: Dimensionering av knutpunkter och förband

Eurocode 3: Design of steel structures – Part 1-8 : Design of joints

SWEDISH STANDARDS INSTITUTE

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Europastandarden EN 1993-1-8:2005/AC:2005 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 1993-1-8:2005/AC:2005.

The European Standard EN 1993-1-8:2005/AC:2005 has the status of a Swedish Standard. This document contains the official English version of EN 1993-1-8:2005/AC:2005.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1993-1-8:2005/AC

December 2005

ICS 91.010.30

English version

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

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

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

This corrigendum becomes effective on 21 December 2005 for incorporation in the three official language versions of the EN.

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

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English version

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

2.2 General requirements

(1)P All joints shall have a design resistance such that the structure is capable of satisfying all the basic design requirements given in this Standard and in EN 1993-1-1.

(3)P Joints subject to fatigue shall also satisfy the principles given in EN 1993-1-9.

2.3 Applied forces and moments

(1)P The forces and moments applied to joints at the ultimate limit state shall be determined according to the principles in EN 1993-1-1.

2.5 Design assumptions

(1)P Joints shall be designed on the basis of a realistic assumption of the distribution of internal forces and moments. The following assumptions shall be used to determine the distribution of forces:

(d) the assumed distribution of internal forces shall be realistic with regard to relative stiffnesses within the joint,

4.1 General

(2)P Welds subject to fatigue shall also satisfy the principles given in EN 1993-1-9.

6.4.1 General

(1)P In the case of rigid plastic global analysis, a joint at a plastic hinge location shall have sufficient rotation capacity.

7.2.1 General

(1)P The design values of the internal axial forces both in the brace members and in the chords at the ultimate limit state shall not exceed the design resistances of the members determined from EN 1993-1-1.

(2)P The design values of the internal axial forces in the brace members at the ultimate limit state shall also not exceed the design resistances of the joints given in 7.4, 7.5, 7.6 or 7.7 as appropriate.

7.3.1 Design resistance

(1)P The welds connecting the brace members to the chords shall be designed to have sufficient resistance to allow for non-uniform stress-distributions and sufficient deformation capacity to allow for redistribution of bending moments.

7.4.2 Uniplanar joints

(1)P In brace member connections subject only to axial forces, the design internal axial force $N_{i,Ed}$ shall not exceed the design axial resistance of the welded joint $N_{i,Rd}$ obtained from Table 7.2, Table 7.3 or Table 7.4 as appropriate.