SLOVENSKI PREDSTANDARD

SIST ENV 1090-3

prva izdaja
januar 2001

Izdelava in montaža jeklenih konstrukcij – 3. del: Dopolnilna pravila za jekla visoke trdnosti (prevzet ENV 1090-3:1997 z metodo platnice)

Execution of steel structures - Part 3: Supplementary rules for high yield strength steels

Exécution des structures en acier - Partie 3: Règles supplémentaires pour les aciers à haute limite d' élasticité

Ausführung von Tragwerken aus Stahl - Teil 3: Ergänzende Regeln für Stähle mit hohen Streckgrenze

Deskriptorji: stavbe, jeklene konstrukcije, jekla visoke trdnosti, materiali, izdelava, pogoji izvajanja, stikovanje, geometrijska odstopanja, zaščita, pregledi, preskusi

ICS 91.080.10

Referenčna številka
SIST ENV 1090-3:2001 ((sl),en)

Nadaljevanje na straneh od II do IV in od 1 do 14

NACIONALNI UVOD

Predstandard SIST ENV 1090-3 ((sl),en), Izdelava in montaža jeklenih konstrukcij - 3. del: Dopolnilna pravila za jekla visoke trdnosti, prva izdaja, 2001, ima status slovenskega predstandarda in je z metodo platnice prevzet evropski predstandard ENV 1090-3 (en), Execution of steel structures - Part 3: Supplementary rules for high yield strength steels, February 1997.

NACIONALNI PREDGOVOR

Evropski predstandard ENV 1090-3:1997 je pripravil tehnični odbor Evropskega komiteja za standardizacijo CEN/TC 135 Izdelava in montaža jeklenih konstrukcij.

Odločitev za prevzem tega predstandarda po metodi platnice je sprejela delovna skupina USM/TC KON/WG 3 Jeklene konstrukcije, ki je pripravila tudi nacionalni dokument za uporabo v Sloveniji, potrdil pa tehnični odbor USM/TC KON Konstrukcije.

Ta slovenski predstandard se lahko uporablja samo v skladu z nacionalnim dokumentom, ki je sestavni del SIST ENV 1090-3:2001.

Ta slovenski predstandard je dne 2000-12-04 odobril direktor USM.

Rok veljavnosti tega predstandarda je do izdaje evropskega standarda EN 1090-3.

ZVEZE S STANDARDI

S prevzemom tega evropskega predstandarda veljajo naslednje zveze:

SIST ENV 1090-1:1999	((sl),en)	Izdelava in montaža jeklenih konstrukcij – 1. del: Splošna pravila in pravila za stavbe
SIST ENV 1992-1-1:1999	((sl)en)	Eurocode 2: Projektiranje betonskih konstrukcij.– Del 1-1: Splošna pravila in pravila za stavbe
SIST ENV 1993-1-1:1996	((sl),en)	Eurocode 3: Projektiranje jeklenih konstrukcij - Del 1-1: Splošna pravila in pravila za stavbe
SIST ENV 1994-1-1:1998	((sl)en)	Eurocode 4: Projektiranje sovprežnih konstrukcij – Del 1-1: Splošna pravila in pravila za stavbe

OPOMBI

- Povsod, kjer se v besedilu predstandarda uporablja izraz “evropski predstandard”, v SIST ENV 1090-3:2001 to pomeni “slovenski predstandard”.

- Nacionalni uvod in nacionalni predgovor nista sestavni del predstandarda.

VSEBINA **Stran**

Nacionalni dokument za uporabo v Sloveniji

Pri referenčnih standardih za vijake je potrebno upoštevati določila Nacionalnega dokumenta za uporabo v Sloveniji za SIST ENV 1090-1:1999.

EUROPEAN PRESTANDARD

PRÉNORME EUROPÉENNE

EUROPÄISCHE VORNORM

ENV 1090-3

February 1997

ICS 91.080.10

Descriptors: buildings, steel construction, high yield strength steels, materials, manufacturing, setting-up condition, joining, welding, fastenings, assembling, geometrical tolerances, protection, inspection, tests

English version

Execution of steel structures - Part 3: Supplementary rules for high yield strength steels

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Ausführung von Tragwerken aus Stahl - Teil 3: Ergänzende Regeln für Stähle mit hohen Streckgrenze

This European Prestandard (ENV) was approved by CEN on 1996-09-27 as a prospective standard for provisional application. The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into an European Standard (EN).

CEN members are required to announce the existance of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

CONTENTS 2

This list of contents refer only subclauses where addition to or modification of the corresponding subclauses of ENV 1090-1 are introduced.

FOREWORD

This European Prestandard has been prepared by CEN/TC 135 "Execution of steel structures", the secretariat of which is held by NSF.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this European Prestandard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

INTRODUCTION

Addition:

(104) This European Prestandard ENV 1090-3 is a supplement to the ENV 1090-1: Execution of Steel structures - General rules and rules for buildings.

(105) This European Prestandard presupposes that the work is performed in accordance with the requirements of ENV 1090-1.

(106) In this European Prestandard, the following terms are used thus:

Addition: means that the text applies in addition to the corresponding clause/subclause of ENV 1090-1 without any amendment to the text of ENV 1090-1;

Modification: means that the text shall modify the corresponding text of ENV 1090-1 as appropriate.

(107) An addition is identified by the subsequent number to the last subclause respective paragraph number of ENV 1090-1 added to 100.

(108) Where a subclause of ENV 1090-1 is not mentioned in this ENV 1090-3, it applies as far as deemed appropriate in each case.

1 SCOPE

This clause of ENV 1090-1 is applicable except as follows:

Addition:

(106) This part of ENV 1090 specifies particular requirements for the execution of structural steelwork produced in high strength steels grades S420 and S460.

2 NORMATIVE REFERENCES

This clause of ENV 1090-1 is applicable except as follows:

Addition:

ENV 1993-1 -1:1992/A1:1994 Amendment 1 to: Eurocode 3: Design of steel structures - Part 1-1: General rules and rules for buildings

EN 10137-1:1995 Plates and wide flats made of high yield strength structural steels in the quenched and tempered or precipitation hardened conditions - Part 1: General delivery conditions

EN 10137-2:1995 Plates and wide flats made of high yield strength structural steels in the quenched and tempered or precipitation hardened conditions - Part 2: Delivery conditions for quenched and tempered steels

3 DEFINITIONS

This clause of ENV 1090-1 is applicable.

4 DOCUMENTATION

This clause of ENV 1090-1 is applicable.

5 MATERIALS

This clause of ENV 1090-1 is applicable except as follows:

5.1 General

Modification:

(1) This part of ENV 1090 covers steel grades S420 and S460. The relevant product standards for such steel grades are given in the following addition to table 1 of ENV 1090-1.

Table 1: Product standards for steel materials

Products	Technical delivery requirements	Dimensions	Tolerances
Plates	EN 10137-1 EN 10137-2	Not applicable	EN 10029 EN 10051
Wide flats		Not applicable	EU 91

5.2 Use of materials

5.2.3 Steel for welded components

Addition:

(105) EN 10113 part 1 - 7.3.3 (Option 2) shall be applied.

Note: For steels according to EN 10113-3, CEV values should be specified as follows:

- S420: $t \leq 16$ CEV $\leq 0,40$
  $16 < t \leq 63$ CEV $\leq 0,42$;

- S460: $t \leq 16$ CEV $\leq 0,43$
  $16 < t \leq 40$ CEV $\leq 0,45$.

For long products, these values should be used up to 100 mm thickness.

(106) Note: For steel grades according to EN 10137-2, the CEV should be a maximum of 0,48.