

**Eurokoodeks 3: Teraskonstruksioonide  
projekteerimine. Osa 1-12: Täiendavad  
reeglid standardi EN 1993  
laiendamiseks kuni teraseni S 700.**

Eurocode 3: Design of steel structures - Part 1-12:  
Additional rules for the extension of EN 1993 up to  
steel grades S 700.

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 1993-1-12:2007 sisaldab Euroopa standardi EN 1993-1-12:2007 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.03.2007 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 1993-1-12:2007 consists of the English text of the European standard EN 1993-1-12:2007.</p> <p>This document is endorsed on 30.03.2007 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> EN 1993-1-12 annab reeglid, mida saab koos osadega EN 1993-1-1 – EN 1993-1-2 – EN 1993-1-3; EN 1993-1-4; EN 1993-1-5; EN 1993-1-6; EN 1993-1-7; EN 1993-1-8; EN 1993-1-9; EN 1993-1-10; EN 1993-1-11 kasutada vahemikku S460 kuni S700 kuuluvatest terastest valmistatavate konstruktsioonide projekteerimisel.</p>	<p><b>Scope:</b> EN 1993-1-12 gives rules that can be used in conjunction with parts – EN 1993-1-1 – EN 1993-1-2 – EN 1993-1-3; – EN 1993-1-4; – EN 1993-1-5; – EN 1993-1-6; – EN 1993-1-7; – EN 1993-1-8; – EN 1993-1-9; – EN 1993-1-10; – EN 1993-1-11 to enable steel structures to be designed with steel of grades greater than S460 up to S700.</p>
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ICS 91.010.30, 91.080.10

Võtmesõnad:

ICS 91.010.30; 91.080.10

English Version

## Eurocode 3 - Design of steel structures - Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700

Eurocode 3 - Calcul des structures en acier - Partie 1-12 :  
Règles additionnelles pour l'utilisation de l'EN 1993 jusqu'à  
la nuance d'acier S 700

Eurocode 3: Bemessung und Konstruktion von Stahlbauten  
- Teil 1-12: Zusätzliche Regeln zur Erweiterung von EN  
1993 auf Stahlsorten bis S 700

This European Standard was approved by CEN on 6 July 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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<b>Contents</b>	<b>Page</b>
<b>Foreword</b> .....	<b>3</b>
<b>1 General</b> .....	<b>3</b>
1.1 Scope .....	3
1.2 Normative references .....	4
1.3 Symbols .....	4
<b>2 Additional rules to EN 1993-1-1 to EN 1993-1-11</b> .....	<b>5</b>
2.1 Additional rules to EN 1993-1-1 .....	5
2.2 Additional rules to EN 1993-1-2 .....	6
2.3 Additional rules to EN 1993-1-3 .....	6
2.4 Additional rules to EN 1993-1-4 .....	6
2.5 Additional rules to EN 1993-1-5 .....	7
2.6 Additional rules to EN 1993-1-6 .....	7
2.7 Additional rules to EN 1993-1-7 .....	7
2.8 Additional rules to EN 1993-1-8 .....	7
2.9 Additional rules to EN 1993-1-9 .....	8
2.10 Additional rules to EN 1993-1-10 .....	8
2.11 Additional rules to EN 1993-1-11 .....	9
<b>3 Additional rules to application parts EN 1993-2 to EN 1993-6</b> .....	<b>9</b>

## Foreword

This European Standard EN 1993-1-12, “Eurocode 3: Design of steel structures: Part 1-12: Additional rules for the extension of EN 1993 up to steel grades S 700”, has been prepared by Technical Committee CEN/TC250 « Structural Eurocodes », the Secretariat of which is held by BSI. CEN/TC250 is responsible for all Structural Eurocodes.

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 August 2007, and conflicting National Standards shall be withdrawn at latest by March 2010.

According to the CEN-CENELEC Internal Regulations, the National Standard Organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

## National annex for EN 1993-1-12

This standard gives alternative procedures, values and recommendations with notes indicating where national choices may have to be made. Therefore the National Standard implementing EN 1993-1-12 should have a National annex containing all Nationally Determined Parameters to be used for the design of steel structures to be constructed in the relevant country.

National choice is allowed in EN 1993-1-12 through:

- 2.1 (3.1(2))
- 2.1 (3.2.2(1))
- 2.1 (5.4.3(1))
- 2.1 (6.2.3(2))
- 2.8 (4.2(2))
- 3 (1)

## 1 General

### 1.1 Scope

(1) This EN 1993-1-12 gives rules that can be used in conjunction with parts

- EN1993-1-1
- EN 1993-1-2
- EN 1993-1-3
- EN 1993-1-4
- EN 1993-1-5
- EN 1993-1-6
- EN 1993-1-7
- EN 1993-1-8

- EN 1993-1-9
- EN 1993-1-10
- EN 1993-1-11
- EN 1993-2
- EN 1993-3-1
- EN 1993-3-2
- EN 1993-4-1
- EN 1993-4-2
- EN 1993-4-3
- EN 1993-5
- EN 1993-6

to enable steel structures to be designed with steel of grades greater than S460 up to S700.

(2) Where it is necessary to alter a rule in other parts to enable up to S700 to be used, it is stated what needs to be done, either by noting that a rule is not to be used with steel grades greater than S460, then giving the one that is required, or by giving an additional rule or rules.

## **1.2 Normative references**

(1) This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 499 *Welding consumables – Covered electrodes for manual metal arc welding of non alloy and fine grain steels – Classification*

EN 10025-6 *Hot rolled products of structural steels - Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition*

EN 10149-1 *Hot-rolled flat products made of high yield strength steels for cold forming – Part 1: General delivery conditions*

EN 10149-2 *Hot-rolled flat products made of high yield strength steels for cold forming – Part 2: Delivery conditions for thermomechanically rolled steels*

EN 12534 *Welding consumables – Wire electrodes, wires, rods and deposits for gas shielded metal arc welding of high strength steels – Classification*

EN 12535 *Welding consumables – Tubular cored electrodes for gas shielded metal arc welding of high strength steels – Classification*

## **1.3 Symbols**

(1) Symbols used in this standard are defined in the standards referred to.