

**Betooni sarrusteras. Keevitatav sarrusteras.  
Üldsätted**

Steel for the reinforcement of concrete - Weldable  
reinforcing steel - General

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 10080:2006 sisaldab Euroopa standardi EN 10080:2005 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 23.11.2006 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 25.05.2005.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 10080:2006 consists of the English text of the European standard EN 10080:2005.

This standard is ratified with the order of Estonian Centre for Standardisation dated 23.11.2006 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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ICS 77.140.15, 77.140.60, 77.140.65

**Võtmesõnad:** armatuurteras, betoon, nõuded, omadused, sarrus, teras, vastavushindamine

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Kui Teil on küsimusi standardite autorikaitse kohta, palun võtke ühendust Eesti Standardikeskusega:  
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English version

**Steel for the reinforcement of concrete - Weldable reinforcing  
steel - General**

Aciers pour l'armature du béton - Aciers soudables pour  
béton armé - Généralités

Stahl für die Bewehrung von Beton - Schweißgeeigneter  
Betonstahl - Allgemeines

This European Standard was approved by CEN on 21 April 2005.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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



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## Foreword

This document (EN 10080:2005) has been prepared by Technical Committee ECISS/TC 19 “Concrete reinforcing and pre-stressing steels - Properties, dimensions, tolerances and specific tests”, the secretariat of which is held by DIN.

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 November 2005, and conflicting national standards shall be withdrawn at the latest by May 2007.

This document has been prepared under Mandate M/115 given to CEN by the European Commission and the European Free Trade Association and supports essential requirements of the EU Construction Products Directive (89/106/EEC).

For relationship with the EU Construction Products Directive, see informative Annex ZA, which is an integral part of this document.

This document does not apply to non-weldable reinforcing steel.

This document does not define technical classes. Technical classes should be defined in accordance with this document by specified values for  $R_e$ ,  $A_{gt}$ ,  $R_m/R_e$ ,  $R_{e,act}/R_{e,nom.}$  (if applicable), fatigue strength (if required), bendability, weldability, bond strength, strength of welded or clamped joints (for welded fabric or lattice girders) and tolerances on dimensions.

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

## 1 Scope

1.1 This European Standard specifies general requirements and definitions for the performance characteristics of weldable reinforcing steel used for the reinforcement of concrete structures, delivered as finished products in the form of:

- bars, coils (rod, wire) and de-coiled products;
- sheets of factory-made machine-welded fabric;
- lattice girders.

1.2 Steels according to this European Standard have a ribbed, indented or smooth surface.

1.3 This European Standard does not apply to:

- non-weldable reinforcing steel;
- galvanized reinforcing steel;
- epoxy-coated reinforcing steel;
- corrosion resistant reinforcing steel;
- prestressing steels (see prEN 10138-1 to -4);
- indented strip;
- further processing, e.g. cutting or cutting and bending.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10020:2000, *Definition and classification of grades of steel*

EN 10079:1992, *Definition of steel products*

EN ISO 377, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing (ISO 377:1997)*

EN ISO 7500-1, *Metallic materials — Verification of static uniaxial testing machines — Part 1: Tension / compression testing machines — Verification and calibration of the force-measuring system (ISO 7500-1:2004)*

EN ISO 15630-1, *Steel for the reinforcement and prestressing of concrete — Test methods — Part 1: Reinforcing bars, wire rod and wires (ISO 15630-1:2002)*

EN ISO 15630-2, *Steel for the reinforcement and prestressing of concrete — Test methods — Part 2: Welded fabric (ISO 15630-2:2002)*

NOTE See also C.2 and D.2.