

**Cold rolled steel sections - Technical  
delivery conditions - Dimensional and  
cross-sectional tolerances**

Cold rolled steel sections - Technical delivery  
conditions - Dimensional and cross-sectional  
tolerances

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 10162:2003 sisaldab Euroopa standardi EN 10162:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 10162:2003 consists of the English text of the European standard EN 10162:2003.</p> <p>This document is endorsed on 16.05.2003 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> This European Standard specifies dimensional and cross-sectional tolerances for cold rolled steel sections produced on roll-forming machines</p>	<p><b>Scope:</b> This European Standard specifies dimensional and cross-sectional tolerances for cold rolled steel sections produced on roll-forming machines</p>
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English version

## Cold rolled steel sections - Technical delivery conditions - Dimensional and cross-sectional tolerances

Profilés en acier formés à froid - Conditions techniques de  
livraison - Tolérances dimensionnelles et sur sections  
transversales

Kaltprofile aus Stahl - Technische Lieferbedingungen -  
Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 21 February 2003.

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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 Management Centre has the same status as the official versions.

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## Foreword

This document (EN 10162:2003) has been prepared by Technical Committee ECISS /TC 13 "Flat products for cold working - Qualities, dimensions, tolerances and specific tests" the secretariat of which is held by IBN.

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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

Annex A is normative and annex B is informative.

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

## 1 Scope

This European Standard specifies dimensional and cross-sectional tolerances for cold rolled steel sections produced on roll-forming machines.

It applies to cold-rolled sections for general use (standard sections) produced from steels conforming to EN 10025, EN 10142 and EN 10147 and in the form of rectangular L, U, C, Z and Omega cross sections as well as split tubes (see Figures 1 to 6).

It also applies to cold rolled sections for special applications (special sections) produced from steels listed in clause 5 with other radii, tolerances and shapes.

NOTE Examples of special sections are sections for steel-framed buildings, door frames and sections for rolling stock, automobiles and bridge engineering (see Figures 7 and 8).

This European Standard does not apply to drawn, pressed or folded cold formed sections, cold rolled steel piling or sections manufactured on the basis of special standards.

## 2 Normative references

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 (including amendments).

ENV 606, *Bar coded transport and handling labels for steel products*

EN 10002-1, *Metallic materials - Tensile testing - Part 1: Method of test at ambient temperature*

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

EN 10021:1993, *General technical delivery requirements for steel and iron products*

EN 10025, *Hot-rolled products of non-alloy structural steels - Technical delivery conditions*

prEN 10025-2, *Hot-rolled products of structural steels – Part 2: Technical delivery conditions for non-alloy structural steels*

EN 10029, *Hot rolled steel plates 3 mm thick or above - Tolerances on dimensions, shape and mass*

EN 10045-1, *Metallic materials - Charpy impact test - Part 1: Test method*

EN 10048, *Hot rolled narrow steel strip - Tolerances on dimensions and shape*

EN 10051, *Continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels - Tolerances on dimensions and shape*

EN 10079:1992, *Definition of steel products*

EN 10088-1, *Stainless steels - Part 1: List of stainless steels*

EN 10088-2, *Stainless steels – Part 2: Technical delivery conditions for sheet / plate and strip for general purposes*

EN 10111, *Continuously hot-rolled low carbon steel sheet and strip for cold forming - Technical delivery conditions*

EN 10113-1, *Hot rolled products in weldable fine grain structural steels - Part 1: General delivery conditions*

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EN 10113-2, *Hot rolled products in weldable fine grain structural steels - Part 2: Delivery conditions for normalized/normalized rolled steels*

EN 10113-3, *Hot rolled products in weldable fine grain structural steels - Part 3: Delivery conditions for thermomechanical rolled steels*

EN 10130, *Cold rolled low carbon steel flat products for cold forming - Technical delivery conditions*

EN 10131, *Cold rolled uncoated low carbon and high yield strength steel flat products for cold forming - Tolerances on dimensions and shape*

EN 10139, *Cold rolled uncoated mild steel narrow strip for cold forming - Technical delivery conditions*

EN 10140, *Cold rolled narrow steel strip - Tolerances on dimensions and shape*

EN 10142, *Continuously hot-dip zinc coated low carbon steel strip and sheet for cold forming - Technical delivery conditions*

EN 10143, *Continuously hot-dip metal coated steel sheet and strip - Tolerances on dimensions and shape*

EN 10147, *Continuously hot-dip zinc coated structural steel strip and sheet - Technical delivery conditions*

EN 10152, *Electrolytically zinc coated cold rolled steel flat products - Technical delivery conditions*

EN 10154, *Continuously hot-dip Aluminium-Silicon (AS) coated steel strip and sheet - Technical delivery conditions*

EN 10169-1, *Continuously organic coated (coil coated) steel flat products - Part 1: General information (definitions, material, tolerances, test methods)*

ENV 10169-2, *Continuously organic coated (coil coated) steel flat products - Part 2: Products for building exterior applications*

EN 10204:1991, *Metallic products - Types of inspection documents*

EN 10214, *Continuously hot-dip zinc-aluminium (ZA) coated steel strip and sheet - Technical delivery conditions*

EN 10215, *Continuously hot-dip aluminium-zinc (AZ) coated steel strip and sheet - Technical delivery conditions*

EN 10258, *Cold rolled stainless steel and narrow strip and cut lengths – Tolerances on dimensions and shape*

EN 10259, *Cold rolled stainless steel wide strip and plate / sheet – Tolerances on dimensions and shape*

CR 10260, *Designation systems for steel - Additional symbols*

EN 10268, *Cold-rolled flat products made of high yield strength micro-alloyed steels for cold forming - General delivery conditions*

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

EN ISO 14284:2002, *Steel and Iron - Sampling and preparation of samples for the determination of chemical composition (ISO 14284:1996).*