

Hot-rolled products in weldable fine grain structural steels —

Part 1: General delivery conditions

The European Standard EN 10113-1:1993 has the status of a
British Standard

UDC 669.14.018.29.018.62-122.4-4:620.1

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This British Standard, having been prepared under the direction of the Iron and Steel Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 September 1993

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The following BSI references relate to the work on this standard:
Committee reference ISM/12
Draft for comment 90/42740 DC

ISBN 0 580 21332 3

Amendments issued since publication

Amd. No.	Date	Comments

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National foreword

This British Standard has been prepared under the direction of the Iron and Steel Standards Policy Committee and is the English language version of EN 10113-1:1993 *Hot rolled products in weldable fine grain structural steels — Part 1: General delivery conditions*, published by the European Committee for Standardization (CEN).

Together with BS EN 10113-2, BS EN 10113-3 and BS EN 10155, it partially supersedes BS 4360:1990 which will be withdrawn in due course.

The other Parts of BS EN 10113 are as follows:

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

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

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 16, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

UDC 669.14.018.29.018.62-122.4-4:620.1

Descriptors: Iron and steel products, hot-rolled products, structural steels, welded construction, delivery, designation, quality classes, chemical composition, grades, quality, mechanical properties, inspection, tests, marking

Hot-rolled products in weldable fine grain structural steels — Part 1: General delivery conditions

Produits laminés à chaud en aciers de
construction soudable à grains fins
Partie 1: Conditions générales de livraison

Warmgewalzte Erzeugnisse aus
schweissgeeigneten Feinkornbaustählen
Teil 1: Allgemeine Lieferbedingungen

This European Standard was approved by CEN on 1993-03-05. 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.

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CEN

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

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

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Foreword

This European Standard has been drawn up by ECISS/TC 10 "Structural Steel — qualities" whose Secretariat is held by NNI.

This European Standard replaces Euronorm 113-72 *Special quality weldable structural steel grades and quality. General provisions*.

The Technical Committee ECISS/TC 10 met in June 1991 in Brussels and agreed on the text for circulation for formal vote within CEN. The following countries were represented in that meeting: Austria, Belgium, Denmark, Finland, France, Germany, Italy, Luxembourg, Netherlands, Spain, Sweden and UK.

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 September 1993, and conflicting national standards shall be withdrawn at the latest by September 1993.

This European Standard has been adopted and in accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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1 Scope

1.1 This European Standard specifies requirements for long products and flat products of hot-rolled weldable fine grain structural quality and special steels. Part 1 of this European Standard specifies the general delivery conditions. Part 2 of this European Standard specifies the delivery conditions for normalized steels in the grades and qualities given in Table 1 (chemical composition) and Table 3 and Table 4 (mechanical properties) of Part 2.

NOTE Whenever normalized is mentioned, normalized rolled is also covered (see 7.2 of Part 2).

Part 3 of this European Standard specifies the delivery conditions for thermomechanical rolled steels in the grades and qualities given in Table 1 (chemical composition) and Table 3 and Table 4 (mechanical properties) of Part 3.

The steels specified in this European Standard are especially intended for use in heavily loaded parts of welded structures such as, bridges, flood gates, storage tanks, water supply tanks, etc., for service at ambient and low temperatures.

1.2 This European Standard does not apply to products for which other EURONORMS exist or European Standards dealing with steels for general structural applications are being prepared:

- Hot-rolled products of non-alloy structural steels (see EN 10025).
- Semi-finished products for forging in general purpose structural steels (see EURONORM 30).
- Weathering steels for structural purposes (see EN 10155).
- Plates and wide flats made of weldable fine-grained structural steels in the quenched and tempered condition (see prEN 10137).
- Flat products in high yield strength steels for cold forming — wide flats, sheet/plate, wide and narrow strip (see prEN 10149).
- Steels for shipbuilding — normal and high strength qualities (see EURONORM 156).
- Hot finished structural hollow sections (see prEN 10210-1).

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.

2.1 General standards

EN 10020, *Definition and classification of grades of steel*.

EN 10027-1, *Designation systems for steel — Part 1: Steel names principal symbols*.

EN 10027-2, *Designation systems for steel — Part 2: Numerical system*.

EN 10079, *Definitions of steel products*.

EN 10163, *Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections — Part 1: General requirements; Part 2: Plates and wide flats; Part 3: Sections*.

EN 10204, *Metallic products — Types of inspection documents*.

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

prEN 10052¹⁾, *Vocabulary of heat treatment terms for ferrous products*.

EURONORM 162 (1981)²⁾, *Cold-rolled sections — Technical conditions of delivery*.

EURONORM 168 (1986)²⁾, *Iron and steel products — Inspection documents — Contents*.

ECCS IC 2 (1983)²⁾, *Weldable fine-grained structural steels — Recommendations for processing, in particular for welding*.

ECISS IC 10, *Designation systems for steel — Additional symbols for steel names*.

2.2 Standards on dimensions and tolerances

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

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

prEN 10034¹⁾, *Structural steel I and H sections — Tolerances on shape and dimensions*.

prEN 10056-2¹⁾, *Structural steel equal and unequal leg angles — Tolerances on shape and dimensions*.

¹⁾ Draft is under discussion.

²⁾ Until these EURONORMS are transformed into European Standards, they can either be implemented or reference made to the corresponding national standards, the list of which is given in Annex B to this European Standard.