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Varmebehandlede hulprofiler af konstruktionsstål – Del 3: Tolerancer, dimensioner og tværsnitsegenskaber

Hot finished steel structural hollow sections –
Part 2: Tolerances, dimensions and sectional properties



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EUROPÄISCHE NORM

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ICS 77.140.75

Supersedes EN 10210-2:2006

English Version

Hot finished steel structural hollow sections - Part 2: Tolerances, dimensions and sectional properties

Profils creux de construction finis à
chaud en aciers — Partie 2 : Tolérances,
dimensions et caractéristiques de section

Warmgefertigte Hohlprofile für den Stahlbau - Teil
2: Grenzabmaße, Maße und statische Werte

This European Standard was approved by CEN on 20 March 2019.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document ([EN 10210-2:2019](#)) has been prepared by Technical Committee CEN/TC 459 "ECISS - European Committee for Iron and Steel Standardization"¹⁾, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes [EN 10210-2:2006](#).

The main changes with respect to the previous edition are listed below:

- a) paragraph [5.2](#) two options were added;
- b) in [Table 2](#) the mass tolerances were changed;
- c) [Figure 2](#) was updated;
- d) for [Tables B.1](#), [B.2](#) and [B.3](#) larger sizes and wall thicknesses were added;
- e) standard was editorially revised.

This standard consists of the following parts:

- [EN 10368](#), *Steel structural hollow sections — General (Characteristics, evaluation of conformity and marking)* (in preparation)
- [EN 10210-1](#), *Hot finished steel structural hollow sections — Part 1: Technical delivery conditions*
- [EN 10210-2](#), *Hot finished steel structural hollow sections — Part 2: Tolerances, dimensions and sectional properties*
- [EN 10210-3](#), *Hot finished steel structural hollow sections — Part 3: Technical delivery conditions for mechanical engineering purposes* (in preparation)

It forms part of a series of standards on hollow sections together with [EN 10219-1](#) to [EN 10219-3](#).

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

1) Through its subcommittee SC 3 "Structural steels other than reinforcements" (secretariat: DIN)

Hot finished steel structural hollow sections –

Part 2: Tolerances, dimensions and sectional properties

1 Scope

This document specifies tolerances for hot finished circular, square, rectangular and elliptical structural hollow sections, manufactured in wall thicknesses up to 120 mm, in the following size ranges:

- Circular: Outside diameters up to 2 500 mm;
- Square: Outside dimensions up to 800 mm × 800 mm;
- Rectangular: Outside dimensions up to 750 mm × 500 mm;
- Elliptical: Outside dimensions up to 500 mm × 250 mm.

The formulae for calculating sectional properties of sections manufactured to the dimensional tolerances of this standard, to be used for the purposes of structural design, are given in [Annex A](#).

Dimensions and sectional properties for a limited range covering the more common sizes are given in [Annex B](#).

NOTE — The designation of the sections' major axis (yy) and minor axis (zz) aligns with the axis designation used for structural design in the structural Eurocodes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 10210-1](#), *Hot finished structural hollow sections of non-alloy and fine grain steels — Part 1: Technical delivery conditions*