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Cold formed welded steel structural hollow sections - Part 2: Tolerances, dimensions and sectional properties

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

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Cold formed welded steel structural hollow sections - Part 2: Tolerances, dimensions and sectional properties

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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.

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

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Contents European foreword		Page
		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	4
4	Symbols	4
5	Information to be obtained by the manufacturer	5
6	Tolerances	6
7	Measurement of size and shape	8
8	Dimensions and sectional properties	13
Annex A (normative) Formulae for the calculation of sectional properties		14
A.1	General	
A.2	Circular hollow sections	14
A.3	Rectangular or square, hollow sections	15
A.4	Elliptical hollow sections	17
Annex B (normative) Sectional properties for a limited range of standard sizes		19
Bibliography		44

European foreword

This document (EN 10219-2:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.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 10219-2:2006.

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

- a) elliptical hollow sections were added;
- b) Annex A concerning the additional tolerances for piling tubes was removed;
- c) subclause 5.2 was added with one option;
- d) in Table 3 the length tolerances for exact length were changed;
- e) in 7.1 one paragraph was added;
- f) 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 10219-1, Cold formed welded steel structural hollow sections Part 1: Technical delivery conditions
- EN 10219-2, Cold formed welded steel structural hollow sections Part 2: Tolerances, dimensions and sectional properties
- EN 10219-3, Cold formed welded 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 10210-1 to EN 10210-3.

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)

1 Scope

This document specifies tolerances for cold formed welded circular, square, rectangular and elliptical structural hollow sections, manufactured in wall thicknesses up to 40 mm, in the following size ranges:

- circular: Outside diameters up to 2 500 mm;
- square: Outside dimensions up to 500 mm × 500 mm;
- rectangular: Outside dimensions up to 500 mm × 300 mm;
- elliptical: Outside dimensions up to 480 mm × 240 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 of 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 10219-1, Cold formed welded structural hollow sections of non-alloy and fine grain steels — Part 1: Technical delivery conditions

koniec náhľadu – text ďalej pokračuje v platenej verzii STN