



BSI Standards Publication

## Structural steels

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Part 2: Technical delivery conditions for structural steels for general purposes

## National foreword

This British Standard is the UK implementation of ISO 630-2:2021.

The UK participation in its preparation was entrusted to Technical Committee ISE/103, Structural Steels Other Than Reinforcements.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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**Structural steels —**

Part 2:  
**Technical delivery conditions for  
structural steels for general purposes**

*Aciers de construction —*

*Partie 2: Conditions techniques de livraison pour aciers de  
construction métallique d'usage général*



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ISO copyright office  
Ch. de Blandonnet 8 • CP 401  
CH-1214 Vernier, Geneva, Switzerland  
Tel. +41 22 749 01 11  
Fax +41 22 749 09 47  
copyright@iso.org  
www.iso.org

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 17, Steels, Subcommittee SC 3, *Steels for construction purposes*.

This third edition cancels and replaces the second edition (ISO 630-2:2011), which has been technically revised. The main changes compared to the previous edition are as follows:

- applicable thickness ranges have been added in the Scope;
- additional terms and definitions concerning heat treatments have been deleted because ISO 4885 is in normative references of ISO 630-1;
- list of options has been integrated in ISO 630-1;
- test units have been updated;
- in Tables, the designation concerning thickness have been changed into “nominal thickness”;
- bibliography has been updated;
- the content of the document has been updated to harmonize with all parts of ISO 630.

A list of all parts in the ISO 630 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

# Structural steels —

## Part 2:

# Technical delivery conditions for structural steels for general purposes

## 1 Scope

This document specifies qualities for steels for general structural use. This document applies to steel plates rolled on a reversing mill, wide flats, hot-rolled sections and bars, which are used in the as-delivered condition and normally intended for welded or bolted structures.

This document covers 8 steel grades and 4 qualities. Grades S235, S275, S355, and S460 are covered in [Annex A](#). Grades SG205, SG250, SG285 and SG345 are covered in [Annex B](#). Not all grades are available in all qualities, and some qualities have Charpy V-notch requirements.

The steels specified in this document are applicable to hot-rolled flat products and sections with:

- thicknesses  $\geq 3$  mm and  $\leq 150$  mm for long products of steel grade S460 all qualities;
- thicknesses  $\geq 3$  mm and  $\leq 250$  mm for long products or  $\leq 400$  mm for flat products of all other grades and qualities;

and no restriction on nominal thickness for grades SG205, SG250, SG285, and SG345 for flat products, sections and long products.

This document does not include the following structural steels, some of which are covered by other International Standards:

- sheet and strip: refer to ISO TC 17/SC 12 “Continuous mill flat rolled products”;
- tubular products: refer to ISO TC 5/SC 1 “Steel tubes”.

NOTE 1 Lists of standards covered by ISO/TC 17/SC 12 and ISO/TC 5/SC 1 are available on the ISO website.

NOTE 2 In all parts of ISO 630, the term of “thickness” is considered as “nominal thickness”, unless otherwise stated.

## 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.

ISO 630-1, *Structural steels — Part 1: General technical delivery conditions for hot-rolled products*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 630-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>