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**Structural steels —**

Part 6:

**Technical delivery conditions for  
seismic-proof improved structural  
steels for building**

*Aciers de construction —*

*Partie 6: Conditions techniques de livraison pour aciers de  
construction améliorés sismiques pour bâtiment*

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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 document 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)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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For an explanation of 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 [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 4, *Steels for structural purposes*.

This second edition cancels and replaces the first edition (ISO 630-6:2014), which has been technically revised.

The main changes are as follows:

- steel grades and qualities have been updated in the scope with the addition of a new grade (SA390) and four qualities (D, D+, E and E+);
- the maximum nominal thickness for plate has been changed from 125 mm to 150 mm;
- the specification of delivery conditions has been added to the scope to align with other parts of the ISO 630 series;
- the list of normative references has been updated;
- some terms and definitions concerning heat treatments have been deleted because they are already included in 630-1;
- four qualities (D, D+, E and E+) have been added to [4.2](#);
- in the tables, the designations concerning thickness have been changed to “nominal thickness”;
- specified values for SA390 have been added to [Tables 1, 3, 4, 5, 6, 7](#) and [8](#);
- four new qualities (D, D+, E and E+) have been added to [Table 8](#)
- the layout of [Table 3, 4, 5, 6, B.1](#), and [B.2](#) has been updated.

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).

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# Structural steels —

## Part 6:

# Technical delivery conditions for seismic-proof improved structural steels for building

## 1 Scope

This document specifies qualities for steels for seismic-proof improved structural use. It is applicable to steel plates rolled on a reversing mill, wide flats, hot-rolled sections, which are used in the as-rolled condition, with the exception of grade SA440, which is normally produced using quenched and tempered or thermomechanical controlled process and normally intended for welded or bolted structures.

This document covers 5 steel grades and 7 qualities. Grades SA235, SA325, SA345, SA390 and SA440 are covered. 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 plates, wide flats, and sections with a minimum nominal thickness of 6 mm and a maximum nominal thickness of 150 mm for steel plates, and a maximum nominal thickness of 140 mm for wide flats and hot-rolled sections.

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

- sheet and strip, e.g. ISO 4995 or ISO 4996;
- tubular products, e.g. ISO 12633-1, ISO 12633-2.

NOTE The term "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*

ISO 7452, *Hot-rolled steel plates — Tolerances on dimensions and shape*

ISO 9034, *Hot-rolled structural steel wide flats — Tolerances on dimensions and shape*

ISO 7778, *Through-thickness characteristics for steel 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 terminology databases for use in standardization at the following addresses:

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