INTERNATIONAL STANDARD

ISO 630-6

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Structural steels —

Part 6: Technical delivery conditions for seismic-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 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).

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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 meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 17, *Steels*, Subcommittee SC 3, *Steels for structural purposes*.

This first edition of ISO 630-6 cancels and replaces ISO 24314:2006, of which it constitutes a technical revision.

ISO 630 consists of the following parts, under the general title *Structural steels*:

— *Part 1: General technical delivery conditions for hot rolled products*

— *Part 2: Technical delivery conditions for non alloy structural steels for general purpose*

— *Part 3: Technical delivery conditions for fine grain structural steels*

— *Part 4: Technical delivery conditions for high yield strength quenched and tempered structural steels*

— *Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance*

— *Part 6: Technical delivery conditions for seismic-proof improved structural steels for building*

Structural steels —

Part 6: Technical delivery conditions for seismic-improved structural steels for building

1 Scope

This part of ISO 630 specifies qualities for seismic-proof improved structural steels. This part of ISO 630 applies to steel plates with thicknesses of 6 mm or over and up to 125 mm, wide flats and hot-rolled sections up to 140 mm, which are used in the usual delivery conditions as given in 6.2 and normally intended for welded or bolted structures.

This part of ISO 630 does not include the following structural steels, certain 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.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 7452:2013, *Hot-rolled steel plates — Tolerances on dimensions and shape*

ISO 7778, *Through-thickness characteristics for steel products*

ISO 9034:1987, *Hot-rolled structural steel wide flats — Tolerances on dimensions and shape*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
as-rolled
steel without any special rolling and/or heat treatment condition

3.2
normalized
steel produced by heating to a suitable temperature above the transformation range and then cooling in air to a temperature substantially below the transformation range

3.3
quenching
operation which consists of cooling a ferrous product more rapidly than in still air from a high temperature above Ac_1

Note 1 to entry: Ac_1 is the temperature at which austenite begins to form during heating.