
**High yield strength steel plates and wide
flats for cold forming —**

**Part 1:
Delivery conditions for
thermomechanically-rolled steels**

*Tôles et larges-plats en acier à haute limite d'élasticité pour formage à
froid —*

*Partie 1: Conditions de livraison des aciers à l'état de laminage
thermomécanique*



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Contents

	Page
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 General requirements	2
4.1 Steelmaking process	2
4.2 Method of deoxidation	2
4.3 Production process	2
4.4 Delivery condition	2
5 Technical requirements	3
5.1 Chemical composition	3
5.2 Mechanical properties	3
5.3 Technical properties	4
6 Inspection and testing	5
6.1 General	5
6.2 Test unit	5
6.3 Position and orientation of sample	5
7 Test methods	6
7.1 Tensile test	6
7.2 Impact test	6
7.3 Chemical analysis	6
7.4 Retests	7
8 Inspection documents	7
9 Sorting and reprocessing	7
10 Marking	7
11 Information to be supplied by the purchaser	7

Annex

A Bending and cold-edging of flat steel products	8
Bibliography	10

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 6930 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 6930-1 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 3, *Steels for structural purposes*.

This first edition, together with ISO 6930-2, cancels and replaces ISO 6930:1983, all clauses of which have been modified, especially clauses 1, 5, 6, Tables 1, 2, 3 and annex A, which has been technically revised.

ISO 6930 consists of the following parts, under the general title *High yield strength steel plates and wide flats for cold forming*:

- *Part 1: Delivery conditions for thermomechanically-rolled steels*
- *Part 2: Delivery conditions for normalized, normalized rolled and as-rolled steels*

Annex A of this part of ISO 6930 is for information only.

High yield strength steel plates and wide flats for cold forming —

Part 1:

Delivery conditions for thermomechanically-rolled steels

1 Scope

1.1 This part of ISO 6930 specifies the requirements for weldable high yield strength steels for cold forming.

This part of ISO 6930 applies to plate hot-rolled on reversing mills and to hot-rolled wide-flats both having a thickness between 4 mm and 20 mm inclusive and supplied in the thermomechanically rolled delivery condition.

1.2 This part of ISO 6930 does not apply to weldable structural steels, whether or not of special quality, which are covered by other International Standards, namely:

- high yield strength steel products for cold forming delivered in normalized, normalized rolled and as-rolled condition (ISO 6930-2);
- structural steels (ISO 630);
- high yield strength flat steel products (ISO 4950-1, ISO 4950-2 and ISO 4950-3);
- hot-rolled steel sheet of higher yield strength with improved formability (ISO 5951).

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 6930. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 6930 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 148, *Steel — Charpy impact test (V-notch)*.

ISO 377, *Steel and steel products — Location and preparation of samples and test pieces for mechanical testing*.

ISO 404:1992, *Steel and steel products — General technical delivery requirements*.

ISO 2566-1:1984, *Steel — Conversion of elongation values — Part 1: Carbon and low alloy steels*.

ISO 6892, *Metallic materials — Tensile testing at ambient temperature*.

ISO 7438, *Metallic materials — Bend test*.

ISO/TR 9769, *Steel and iron — Review of available methods of analysis*.

ISO 10474, *Steel and steel products — Inspection documents*.

ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition*.