INTERNATIONAL STANDARD

ISO 5952

Fourth edition 2011-02-15

Continuously hot-rolled steel sheet of structural quality with improved atmospheric corrosion resistance

Tôles en acier de construction laminées à chaud en continu à résistance améliorée à la corrosion atmosphérique



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2011

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office Case postale 56 • CH-1211 Geneva 20 Tel. + 41 22 749 01 11 Fax + 41 22 749 09 47 E-mail copyright@iso.org Web www.iso.org

Published in Switzerland

.....7

......7

Cor	Contents Page	
Fore		
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Surface characteristics	
5	Conditions of manufacture	
6	Dimensional tolerances	4
7	Tensile test samplings	
8	Tensile test requirements	
9	Retests	
10	Resubmission	
11	Workmanship	

Information to be supplied by the purchaser......7

Annex A (informative) Guidelines for estimating the atmospheric corrosion resistance of low-

Annex B (informative) Additional information for the use steel with improved atmospheric

12

13

14

15

Inspection and acceptance ...

Coil size

alloy steels

Bibliography.....

corrosion resistance

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 Maison 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 2.

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

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.

ISO 5952 was prepared by Technical Committee ISO/TC 17, Steel, Subcommittee SC 12, Continuous mill flat rolled products.

This fourth edition cancels and replaces the third edition (ISO 5952:2005), which has been technically revised.

Continuously hot-rolled steel sheet of structural quality with improved atmospheric corrosion resistance

1 Scope

- **1.1** This International Standard applies to continuously hot-rolled steel sheet (see 3.2) of structural quality with improved atmospheric corrosion resistance, also known as weather-resistant structural steel. It is produced in the grades and classes listed in Table 1. The product is intended for applications where requirements are for mechanical properties and increased resistance to atmospheric corrosion. It is generally used in the delivered condition and is intended for bolted, riveted or welded structures.
- **1.2** This product is commonly produced in the range of thicknesses 1,6 mm up to and including 12,5 mm and widths of 600 mm and over, in coils and cut lengths.
- **1.3** Hot-rolled sheet less than 600 mm wide can be slit from wide sheet and will be considered as sheet.

NOTE Hot-rolled sheet up to but not including 3 mm in thickness is commonly known as sheet. Hot-rolled sheet 3 mm and over in thickness is commonly known as either "sheet" or "plate".

- **1.4** This International Standard does not cover following steel qualities:
- steels intended for boilers or pressure vessels or steels designated as commercial quality or drawing qualities (see ISO 3573);
- steels produced on reversing mills and designate with improved atmospheric corrosion resistance (see ISO 4952);
- steels designated with structural quality (see ISO 499) or high yield strength structural quality (see ISO 4996);
- steels designated with higher yield strength with improved formability (see ISO 5951).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the lates edition of the referenced document (including any amendments) applies.

ISO 148-1, Metallic materials — Charpy pendulum impact test — Part 1: Test method

ISO 6892-1, Metallic materials — Tensile testing — Part 1: Method of test at room temperature

ISO 16160, Continuously hot-rolled steel sheet products — Dimensional and shape tolerances

© ISO 2011 – All rights reserved