

# JIS

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STANDARD

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**JIS E 1101** : 2001

**Flat bottom railway rails and  
special rails for switches and  
crossings of non-treated steel**

JIS E 1101 : 2001 has been revised under date of March 25, 2006.  
The revised items are included in Amendment 1.

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ICS 45.080

**Descriptors** : plain track, railway rails, point work

**Reference number** : JIS E 1101 : 2001 (E)

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS E 1101 : 1993** is replaced with **JIS E 1101 : 2001**.

In this revision, for striving after conformity to the corresponding International Standard it adopts **ISO 5003** *Flat bottom railway rails and special rail section for switches and crossings of non-treated steel—Technical delivery requirements* as the basis.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

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## Flat bottom railway rails and special rails for switches and crossings of non-treated steel

**Introduction** This Japanese Industrial Standard has been prepared based on the first edition of **ISO 5003** *Flat bottom railway rails and special rail section for switches and crossings of non-treated steel—Technical delivery requirements* published in 1980 without modifying the technical contents of the corresponding International Standard, excepting supplement of the following clauses and technical contents not specified in the corresponding International Standard and deletion of some requirements in that Standard.

- a) Giving consideration to the confusion by overall and drastic revision, such provisions in the former **JIS** as classification, shape and dimensions are set together, in a minimum of necessity, by way of supplementary clause or technical contents to extend the user's choice.
- b) In the classification, S rails, which had been specified in Annex 2 of **JIS E 1303**, are added as well as the rails of the former **JIS E 1101**, while the 50 kg rail and 90 S rail, which have become to be no product results, are deleted.

The portions sidlined or underlined with dots in this Standard show the matters not specified in the corresponding International Standard.

**1 Scope** This Standard specifies the quality and the tests for flat bottom railway rails of non-treated steel with a calculated mass of 30 kg/m or more and special rails for those railway switches and crossings (hereafter, where generically termed for both, referred to as "rails").

Remarks 1 The purchaser's attention is drawn to the fact that an invitation to tender should normally be accompanied by a definition of the conditions of use and other relevant documents for carrying out the order, and in particular those concerning the application of the clauses in this Standard.

2 The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO 5003 *Flat bottom railway rails and special rail section for switches and crossings of non-treated steel—Technical delivery requirements* (MOD)

**2 Normative references** The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0202 *Glossary of terms used in iron and steel (testing)*

JIS G 0203 *Glossary of terms used in iron and steel (Products and quality)*