

# JIS

JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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**JIS E 1107** : 2008

(JRCEA/JSA)

**Steel bolts and nuts for fish-plates  
and fastenings**

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ICS 21.060.10; 21.060.20; 45.080

Reference number : **JIS E 1107 : 2008 (E)**

E 1107 : 2008

Date of Establishment: 1953-02-27

Date of Revision: 2008-03-20

Date of Public Notice in Official Gazette: 2008-03-21

Investigated by: Japanese Industrial Standards Committee  
Standards Board

Technical Committee on Railways and Rolling Stock

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JIS E 1107:2008, First English edition published in 2008-10

Translated and published by: Japanese Standards Association  
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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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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Printed in Japan

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## 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 as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Railway Civil Engineering Association (JRCEA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS E 1107**:1998 is replaced with this Standard.

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# Steel bolts and nuts for fish-plates and fastenings

## Introduction

This Japanese Industrial Standard has been prepared based on the first edition of **ISO 6305-4** published in 1985 with some modifications of the technical contents intended to adapt the requirements to the actual trading in Japan.

The portions with continuous sidelines and dotted underlines are the matters in which the contents of the corresponding International Standard have been modified. A list of modifications with explanations is given in Annex JC (informative).

## 1 Scope

This Standard specifies the fish-plate bolts and nuts used for **JIS E 1102** and fastening bolts and nuts used for **JIS E 1110** (hereafter referred to as “bolts and nuts”). In the case of using Whitworth screw threads, bolts and nuts shall be in accordance with Annex JA.

NOTE : The International Standard corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 6305-4:1985 *Railway components—Technical delivery requirements—Part 4: Untreated steel nuts and bolts and high-strength nuts and bolts for fish-plates and fastenings* (MOD)

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

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For the standards with the indication of the year, only the edition of the indicated year shall be applied and not any revisions (including amendments) made thereafter. For those without, the most recent edition (including amendments) shall be applied.

JIS B 0205-4 *ISO general purpose metric screw threads—Part 4: Basic dimensions*

JIS B 0209-3:2001 *ISO general purpose metric screw threads—Tolerances—Part 3: Deviations for constructional screw threads*

JIS B 0251 *Limit gauges for metric screw threads*

JIS B 1041 *Fasteners—Surface discontinuities—Part 1: Bolts, screws and studs for general requirements*

JIS B 1042 *Fasteners—Surface discontinuities—Part 2: Nuts*

JIS B 1051:2000 *Mechanical properties of fasteners made of carbon steel and alloy steel—Part 1: Bolts, screws and studs*

JIS B 1052:1998 *Mechanical properties of steel nuts*