



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS G 3192 : 2021

(JISF)

**Dimensions, shape, mass and
permissible variations of hot rolled
steel sections**

Date of Establishment: 1954-07-30

Date of Revision: 2021-04-20

Date of Public Notice in Official Gazette: 2021-04-20

Developed by: The Japan Iron and Steel Federation

Investigated by: The Japan Iron and Steel Federation, Standardization
Center

JIS G 3192 : 2021, First English edition published in 2021-12

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

© JSA 2021

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 the publisher.

Printed in Japan

HN

Contents

		Page
Introduction		1
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Classification and sectional shape	2
5	Expression of dimensions and marking	3
6	Standard dimensions	3
7	Shapes and dimensional tolerances	4
8	Mass	4
9	Tolerances on mass	4
10	Appearance	5
Annex JA (informative)	Comparison table between JIS and corresponding International Standards	38

Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry based on the provision of Article 14, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act in response to a proposal for revision of Japanese Industrial Standard with a draft being attached, submitted by The Japan Iron and Steel Federation (JISF), an accredited standards development organization. This edition replaces the previous edition (**JIS G 3192** : 2014), which has been technically revised.

This **JIS** document is protected by the Copyright Act.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister is not responsible for identifying any of such patent rights, published patent application or utility model rights.

Dimensions, shape, mass and permissible variations of hot rolled steel sections

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 657-1** : 1989, Edition 1, **ISO 657-2** : 1989, Edition 1, **ISO 657-5** : 1976, Edition 1, **ISO 657-11** : 1980, Edition 1, **ISO 657-15** : 1980, Edition 1, **ISO 657-18** : 1980, Edition 1, **ISO 657-19** : 1980, Edition 1 and **ISO 657-21** : 1983, Edition 1 with some modifications of the technical contents.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JA.

1 Scope

This Standard specifies the appearance, shapes and permissible variations thereof, and the dimensions, mass and their tolerances of hot rolled steel sections (hereafter referred to as steel sections).

The application of this Standard shall be as specified in each product standard.

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

ISO 657-1 : 1989 *Hot-rolled steel sections — Part 1 : Equal-leg angles — Dimensions*

ISO 657-2 : 1989 *Hot-rolled steel sections — Part 2 : Unequal-leg angles — Dimensions*

ISO 657-5 : 1976 *Hot-rolled steel sections — Part 5 : Equal-leg angles and unequal-leg angles — Tolerances for metric and inch series*

ISO 657-11 : 1980 *Hot-rolled steel sections — Part 11 : Sloping flange channel sections (Metric series) — Dimensions and sectional properties*

ISO 657-15 : 1980 *Hot-rolled steel sections — Part 15 : Sloping flange beam sections (Metric series) — Dimensions and sectional properties*

ISO 657-18 : 1980 *Hot-rolled steel sections — Part 18 : L sections for shipbuilding (metric series) — Dimensions, sectional properties and tolerances*

ISO 657-19 : 1980 *Hot-rolled steel sections — Part 19 : Bulb flats (metric series) — Dimensions, sectional properties and tolerances*

ISO 657-21 : 1983 *Hot-rolled steel sections — Part 21 : T-sections with equal depth and flange width — Dimensions* (overall evaluation : MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT