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(JMA/JSA)

**Magnesium alloy extruded profiles**

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## Foreword

This Japanese Industrial Standard has been 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 The Japan Magnesium Association (JMA)/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 H 4204:2011** is replaced with this Standard.

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Patent No.	Title of patent	Patent holder	Expiration date
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No. 4415098	Preparation and its extruded material of the flame-retardant magnesium alloy extruded material	National Institute of Advanced Industrial Science and Technology (AIST)	March 15, 2025
No. 5035893	A high strength and high ductility, flame retardant magnesium alloy and manufacturing method thereof	National Institute of Advanced Industrial Science and Technology (AIST)	August 30, 2027
No. 3905115	High strength and high toughness magnesium alloy and manufacturing method thereof	Yoshihito Kawamura	November 26, 2024
No. 4500916	Magnesium alloy and manufacturing method thereof	Kumamoto University Honda Motor Co., Ltd. Fuji Light Metal Co., Ltd. Japan Steel Works Ltd.	September 28, 2024
No. 5024705	Magnesium alloy material and a method of manufacturing	Kobe Steel Ltd. Nissan Motor Co., Ltd. Kumamoto University	November 16, 2027

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The “patent rights” as mentioned here include patent right, application for a patent after opening to the public or utility model right.

# Magnesium alloy extruded profiles

## Introduction

This Japanese Industrial Standard has been prepared based on **ISO 3116 : 2007**, Edition 4, 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 magnesium alloy extruded profiles (hereafter referred to as profiles) with a solid or hollow cross section, which are manufactured by extrusion.

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

ISO 3116 : 2007 *Magnesium and magnesium alloys — Wrought magnesium alloys* (MOD)

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 21-1**.

## 2 Normative references

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

- JIS H 0001 *Aluminium, magnesium and their alloys — Temper designation*
- JIS H 0321 *General rules for inspection of non-ferrous metal materials*
- JIS H 1331 *Magnesium and magnesium alloys — General rules for sampling and analytical methods*
- JIS H 1332 *Methods for determination of aluminium in magnesium and magnesium alloys*
- JIS H 1333 *Methods for determination of zinc in magnesium and magnesium alloys*
- JIS H 1334 *Methods for determination of manganese in magnesium and magnesium alloys*
- JIS H 1335 *Methods for determination of silicon in magnesium and magnesium alloys*