



MALAYSIAN STANDARD

MS 146:2014

**Steel for the reinforcement of concrete -
Weldable reinforcing steel - Bar, coil and
decoiled product - Specification
(Fourth revision)**

ICS: 77.140.15

Descriptors: steel, reinforcement of concrete, bar, coil, decoiled, weldable, requirements

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OR **SIRIM Berhad**
(Company No. 367474 - V)
1, Persiaran Dato' Menteri
Section 2, P. O. Box 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA

Tel: 60 3 8318 0002
Fax: 60 3 8319 3131
<http://www.standardsmalaysia.gov.my>
E-mail: central@standardsmalaysia.gov.my

Tel: 60 3 5544 6000
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E-mail: msonline@sirim.my

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Committee representation

The Industry Standards Committee on Metallic Materials and Semi-finished Products (ISC P) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Association of Marine Industries of Malaysia
Construction Industry Development Board Malaysia
Department of Standards Malaysia
Federation of Malaysian Manufacturers
IKRAM QA Services Sdn Bhd
Institute of Materials Malaysia
Jabatan Kerja Raya Malaysia
Malaysia Steel Association
Malaysian Automotive Component Parts Manufacturers
Malaysian Iron and Steel Industry Federation
Master Builders Association Malaysia
Ministry of International Trade and Industry
Pertubuhan Akitek Malaysia
SIRIM Berhad (National Centre for Machinery and Tooling Technology)
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Steel Bars, Wire Rods and Wire Products which developed this Malaysian Standard consists of representatives from the following organisations

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
IKRAM QA Services Sdn Bhd
Jabatan Kerja Raya Malaysia
Malaysian Iron and Steel Industry Federation
Master Builders Association Malaysia
Ministry of International Trade and Industry
MMC Gamuda KVMRT (PDP) Sdn Bhd
SIRIM Berhad (Secretariat)
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Teknologi MARA

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Amsteel Mills Sdn Bhd
Ann Joo Steel Bhd
Asia Wire Steel Mesh Manufacturers Sdn Bhd
CH Reinforcing Steel (M) Sdn Bhd
Perwaja Steel Sdn Bhd
Southern PC Steel Sdn Bhd
Southern Steel Berhad
Southern Steel Mesh Sdn Bhd

Foreword

This Malaysian Standard was developed by the Technical Committee on Steel Bars, Wire Rods and Wire Products under the authority of the Industry Standards Committee on Metallic Materials and Semi-finished Products.

Major modifications in this revision are as follows:

- a) the title of this standard has been amended from “Hot-rolled steel bars for the reinforcement of concrete - Specification” to “Steel for the reinforcement of concrete - Weldable reinforcing steel - Bar, coil and decoiled product - Specification”; and
- b) a third ductility class has been added.

This standard has been developed so that it can be used in conjunction with MS EN 10080:2013. Definitions, symbols, steelmaking and manufacturing processes, routine inspection and testing, test methods, identification of the manufacturer and technical class and verification of mechanical properties in the case of dispute are all taken from MS EN 10080:2013.

This Malaysian Standard cancels and replaces MS 146:2006, *Hot rolled steel bars for the reinforcement of concrete - Specification (Third revision)*.

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.