

**MAURITIAN  
STANDARD**

**MS 35:2015**  
**(BS 4483:2005 + A1:2007)**

Third edition  
2015-04-11

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**Steel fabric for the reinforcement of  
concrete - Specification**

ICS 77.140.15; 91.080.40

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**Mauritius Standards Bureau**  
**Moka**

**MS 35:2015**  
**(BS 4483:2005+A1:2007)**

## National foreword

**MS 35:2015** was drawn up by the Mauritius Standards Bureau on the recommendation of the **Building and Construction Standards Committee** and approved by the **Standards Council** on 5 March 2015. It was notified in the Government Gazette on **11 Aril 2015\***.

This Mauritian Standard is an adoption of the British Standard **BS 4483:2005 +A1:2007**, and was implemented with the permission of the British Standards Publishing Ltd.

This new edition cancels and replaces MS 35:2006 which is withdrawn. This edition incorporates a full revision of the standard and the following main change:

- all steel fabric conforming to this standard is to be made using ribbed bar in accordance with MS 10:2015 with the exception of the wrapping fabrics D49 and D98 where MS 34:2015 may be used.

For the purposes of this standard the following editorial change should be made:

- (i) the words 'British Standard' should be substituted by 'Mauritian Standard';

\* **General Notice No. 622 of 2015**



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## Foreword

This British Standard has been prepared by Subcommittee ISE/9/1, and is a revision of BS 4483:1998, which will be withdrawn on 1 January 2006. This edition incorporates a full revision of the standard. All steel fabric conforming to this standard is to be made using ribbed bar in accordance with BS 4449:2005 with the exception of the wrapping fabrics D49 and D98 where BS 4482 may be used.

The start and finish of text introduced by Amendment No. 1 is indicated in the text by tags **[A1]** **[A1]**.

BS 4449:2005 grade B500A in sizes below 8 mm does not conform to BS EN 1992-1-1:2004 (Eurocode 2).

This standard has been written so that it can be used in conjunction with BS EN 10080:2005. Definitions, symbols, manufacturing processes, routine inspection and testing, test methods, identification of the manufacturer and technical class and verification in the case of dispute are all taken from BS EN 10080:2005.

BS EN 10080:2005 does not define steel grades or technical classes, and requires that these should be defined in accordance with BS EN 10080:2005, by specified values of  $R_e$ ,  $R_m/R_e$ ,  $A_{gt}$ ,  $R_{e,act}/R_{e,nom}$  (where appropriate), fatigue strength, bend performance, weldability, bond strength, tolerances and dimensions.

BS EN 10080:2005 contains an informative Annex ZA, which describes how that standard can be used for the purposes of CE marking of reinforcing steels. Annex ZA and 8.2, 8.3 and 8.4 of BS EN 10080:2005 relate to the role of the notified body in assessing products for an EC certificate of conformity, and as such are not included in this standard. It is not a requirement of this British Standard that materials produced to it should meet the requirements for CE marking.

Where CE marking is required for the purposes of complying with the EU Construction Products Directive, reference ought to be made to BS EN 10080:2005.

It is recommended that purchasers specify reinforcing steel that has been manufactured and supplied to a recognized third party product certification scheme. 8.2 specifies the determination of the long term quality level under such a scheme. As an alternative, Annex B provides a batch testing method for material which has not been produced under such a scheme.

This standard comes into effect on 1 January 2006.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with a British Standard cannot confer immunity from legal obligations.**

### Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover.

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## 1 Scope

This British Standard specifies requirements for sheets of factory-made machine-welded steel fabric for the reinforcement of concrete, manufactured from ribbed bars conforming to BS 4449:2005, or manufactured from wire conforming to BS 4482 for wrapping fabrics D49 and D98.

NOTE Where the term “bar” is used in this standard, it includes bar or decoiled product conforming to BS 4449:2005. For clarity only, it can also include wire conforming to BS 4482 for wrapping fabrics only.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 4449:2005, *Steel for the reinforcement of concrete — Weldable reinforcing steel — Bar, coil and decoiled product — Specification.*

BS 4482, *Steel wire for the reinforcement of concrete products — Specification.*

BS 8666, *Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete — Specification.*

BS EN 10080:2005, *Steel for the reinforcement of concrete — Weldable reinforcing steel — General.*

BS EN ISO 15630-1, *Steel for the reinforcement and prestressing of concrete — Test methods — Part 1: Reinforcing bars, wire rod and wires.*

BS EN ISO 15630-2, *Steel for the reinforcement and prestressing of concrete — Test methods — Part 2: Welded fabric.*

## 3 Terms and definitions

### 3.1

#### **welded fabric**

arrangement of longitudinal and transverse bars of the same or different nominal diameter and length that are arranged substantially at right angles to each other and factory electrical resistance welded together by automatic machines at all points of intersection

### 3.2

#### **characteristic value**

value of a material or product having a prescribed probability of not being attained in a hypothetical unlimited test series

### 3.3

#### **minimum value**

value below which no test result shall fall

### 3.4

#### **maximum value**

value which no test result shall exceed

### 3.5

#### **batch**

quantity of welded fabric of one type produced by one manufacturer and presented for examination at any one time

### 3.6

#### **factory production control**

permanent internal control of production performed by the manufacturer

### 3.7

#### **standard property**

property which is part of the routine inspection and test requirements for every test unit