

Tyres and wheels —

Part 1: Tyres —

Section 4: Agricultural tractor and machine tyres —

Subsection 4.1a: Specification for designations and dimensions for ply rating marked series tyres

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Committees responsible for this British Standard

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- Agricultural Engineers' Association
- Automobile Association
- British Industrial Truck Association
- British Pressure Gauge Manufacturers' Association
- British Rubber Manufacturers' Association
- Bus and Coach Council
- Department of Transport
- Freight Transport Association
- Institute of Road Transport Engineers (Inc)
- Motor Cycle Industry's Association of Great Britain Ltd.
- Motor Industry Research Association
- National Tyre Distributors' Association
- Retread Manufacturers' Association
- Road Haulage Association Ltd.
- Society of Motor Manufacturers and Traders Ltd.

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National foreword

This Subsection of this Part of BS AU 50, prepared under the direction of the Automobile Standards Policy Committee, is identical with ISO 4251-1:1992 *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 1: Tyre designation and dimensions*, published by the International Organization for Standardization (ISO). This edition supersedes BS AU 50-1.4.1:1989, which is withdrawn.

BS AU 50 is published in four Parts:

- *Part 1: Tyres;*
- *Part 2: Wheels and rims;*
- *Part 3: Valves;*
- *Part 4: Rim profiles and dimensions.*

ISO 4251 covers requirements for tyres (ply rating marked series) and rims for agricultural tractors and machines. Other Parts of ISO 4251 have been implemented as British Standards as Subsections of BS AU 50 as follows:

ISO 4251	BS AU 50
Part 2: <i>Tyre load ratings</i>	Part 1.4.2
Part 3: <i>Rims</i>	Part 4.4.1
Part 4: <i>Tyre classification and nomenclature</i>	Part 1.4.3
Part 5: <i>Log skidder tyres</i>	Part 1.4.4

Cross-references. The Technical Committee has reviewed the provisions of ISO 4223-1 to which normative reference is made in the text, and has decided that they are acceptable for use in conjunction with this standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself 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 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

This part of ISO 4251 establishes the designation in use and the dimensions of the ply rating marked series of tyres for agricultural tractors and machines.

Tyre load ratings, rim dimensions, and tyre classification and nomenclature are given in ISO 4251-2, ISO 4251-3 and ISO 4251-4 respectively.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 4251. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 4251 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4223-1:1989, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres.*

3 Definitions

For the purposes of this part of ISO 4251, the definitions given in ISO 4223-1 apply.

4 Marking

The marking of the ply rating marked series of tyres consists of designations of the tyre size and load rating, and any additional information. See 4.1 to 4.3.

4.1 Tyre size

The present size markings for the identification of tyres consist of the nominal tyre width code and the nominal rim diameter code.

EXAMPLES

Tyre 13.6 – 28

Tyre 6.50 – 16

For tyres of radial construction, the letter “R” replaces the dash.

EXAMPLE

Tyre 13.6 R 28

For low section height tyres, the letter “L” is added to the nominal tyre width code.

EXAMPLE

Tyre 9.5 L – 15

For low section height tractor steering wheel tyres of diagonal construction, an optional marking may be used in the following manner:

nominal tyre width code/nominal aspect ratio...
nominal rim diameter.

EXAMPLE

Tyre 9.5/85 – 15

4.2 Load rating

The present marking of load rating comprises the ply rating.

EXAMPLE

Tyre 13.6 – 28 8 PR

4.3 Additional information

Tubeless tyres may be marked with the word “TUBELESS”.

Additionally, classification code markings indicating tyre classifications may be used as described in ISO 4251-4, but they are not part of the size marking of the tyre.

5 Dimensions and tolerances

5.1 Agricultural drive wheels — Tractor tyres

Standard sizes, measurement rims, design dimensions of new tyres, and maximum tyre dimensions in service are given in

- Table 1 for tyres of diagonal construction with normal section height;
- Table 2 for tyres of radial construction with normal section height;
- Table 3 for tyres of diagonal construction with low section height;
- Table 4 for tyres of radial construction with low section height;
- Table 5 for tyres of diagonal construction for special cultivation work;
- Table 6 for tyres of radial construction for special cultivation work.

5.2 Agricultural steering wheels — Tractor tyres

Standard sizes, measurement rims, design dimensions of new tyres, and maximum tyre dimensions in service are given in

- Table 7 for tyres of diagonal construction with normal section height;
- Table 8 for tyres of diagonal construction with low section height.