

Tyres and wheels —

Part 4: Rim profiles and dimensions —

Section 5: Industrial vehicle rims —

Subsection 5.1 Specification for rim profiles and dimensions for code-designated series tyres

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee AUE/4, Tyres and wheels for road vehicles, upon which the following bodies were represented:

- Agricultural Engineers' Association
- Automobile Association
- British Industrial Truck Association
- British Pressure Gauge Manufacturers' Association
- British Rubber Manufacturers' Association
- Confederation of Passenger Transport UK
- 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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Foreword

This British Standard has been prepared by Technical Committee AUE/4. This Subsection forms part of Section 5 of this British Standard. This Subsection specifies rim profiles and dimensions suitable for use with the code-designated series tyres specified in BS AU 50-1.5.1.

Requirements for rims for metric series tyres are specified in the other Subsections of Section 5.

Part 4 of this standard is concerned with rim profiles and dimensions. Other Parts are as follows:

- *Part 1: Tyres;*
- *Part 2: Wheels and rims;*
- *Part 3: Valves.*

Other Sections of Part 4 are as follows:

- *Section 1: Passenger car rims;*
- *Section 2: Commercial vehicle rims;*
- *Section 3: Off-the-road vehicle rims;*
- *Section 4: Agricultural vehicle rims;*
- *Section 5: Industrial vehicle rims;*
- *Section 6: Motor cycle rims;*
- *Section 7: Moped rims.*

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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 Subsection of BS AU 50-4 specifies contours and dimensions of rims for use with code-designated series tyres used on industrial vehicles. Requirements for such tyres are specified in BS AU 50-1.5.1:1994. Requirements for rim construction and workmanship are specified in BS AU 50-2.0:1979.

SAFETY NOTE. The wheel manufacturer should also be consulted to determine whether the rim and wheel is of sufficient strength for the intended service. In particular, care should be taken to ensure that the wheel will withstand the maximum pressure of any tyre that can be fitted in accordance with BS AU 50-1.5.1:1994. This pressure may exceed 1 000 kPa (10 bar) for both diagonal and radial tyres.

2 References

2.1 Normative reference

This Subsection of BS AU 50-4 incorporates, by dated or undated reference, provisions from another publication. This normative reference is made at the appropriate places in the text and the cited publication is listed on the inside back cover. For dated references, only the edition cited applies; any subsequent amendments to or revisions of the cited publication apply to this Subsection of BS AU 50-4 only when incorporated by amendment or revision. For undated references the latest edition of the cited publication applies, together with any amendments.

2.2 Informative reference

This Subsection of BS AU 50-4 refers to another publication that provides information or guidance. The edition of this publication current at the time of issue of this standard is listed on the inside back cover, but reference should be made to the latest edition.

3 Definitions

For the purpose of this Subsection of BS AU 50-4 the definitions given in BS AU 50-2.0:1979 apply.

4 Designation and marking

Rims shall be designated and marked in accordance with BS AU 50-2.0:1979.

5 Rim profiles

5.1 Rims with 5° tapered bead seat

Rims with 5° tapered bead seat rim profiles shall be in accordance with Figure 1 and Table 1 and Table 2. The specified rim diameter shall be verified by measuring the wheel rim circumference with a ball tape. The measured circumference shall be within ± 1.2 mm of the nominal circumference of the appropriate mandrel, as specified in Annex A.

5.2 Divided rims

Divided rim profiles shall be in accordance with Figure 2 and Table 3 and Table 4. The specified rim diameter shall be verified by measuring the wheel rim circumference with a ball tape. The measured circumference shall be within ± 1.2 mm of the nominal circumference of the appropriate mandrel, as specified in Annex A.

5.3 Flat base rims

Flat base rim profiles shall be in accordance with Figure 3 and Table 5 and Table 6.

5.4 Drop-centre 15° tapered rims for normal base tyres

Drop-centre 15° tapered rim profiles for normal base tyres shall be in accordance with Figure 4 and Table 7 and Table 8. The specified rim diameter shall be verified by measuring the wheel rim circumference with a ball tape. The measured circumference shall be within ± 1.2 mm of the nominal circumference of the appropriate mandrel, as specified in Annex A.