

INTERNATIONAL
STANDARD

ISO
4209-1

Fifth edition
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Truck and bus tyres and rims (metric series) —

Part 1:
Tyres

Pneumatiques et jantes (séries millimétriques) pour camions et autobus —

Partie 1: Pneumatiques



Reference number
ISO 4209-1:1993 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 4209-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Sub-Committee SC 4, *Trucks and bus tyres and rims*.

This fifth edition cancels and replaces the fourth edition (ISO 4209-1:1988), of which it constitutes a technical revision.

ISO 4209 consists of the following parts, under the general title *Truck and bus tyres and rims (metric series)*:

- Part 1: *Tyres*
- Part 2: *Rims*

Annexes A, B and C of this part of ISO 4209 are given for information only.

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Truck and bus tyres and rims (metric series) —

Part 1: Tyres

1 Scope

This part of ISO 4209 specifies the designation, dimensions and load ratings of the metric series of tyres primarily intended for trucks and buses.

It applies to bias-belted, diagonal and radial tyres for trucks and buses, mounted on 5° tapered rims and on 15° tapered (drop-centre) rims.

It is also applicable to different concepts and types of tyres and rims; in these cases, however, appropriate rim/section ratios K_1 , coefficients K_2 , K_3 , C_R and construction codes have been added to tables 2 and 3.

ISO 4209-2 deals with requirements for rims.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this part of ISO 4209. 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 4209 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 4209, the definitions in ISO 4223-1 apply.

4 Tyre designation

The designation of the tyre shall be shown on its sidewall and shall include the following markings, to be shown close to each other:

- size and construction (see 4.1);
- service condition characteristics (see 4.2).

4.1 Size and construction

The size and construction characteristics shall be indicated as follows:

Nominal section width	/	Nominal aspect ratio	Tyre construction code	Nominal rim diameter code
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or

Nominal section width	/	Nominal aspect ratio	Tyre construction code	Nominal rim diameter
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(See 4.1.4.)

4.1.1 Nominal section width

The nominal section width shall be expressed in millimetres. For tyres fitted to 5° taper rims and 15° taper rims (code-designated), the nominal tyre section width shall end in 5.

4.1.2 Nominal aspect ratio

The nominal aspect ratio shall be expressed as a percentage and shall be a multiple of 5.

4.1.3 Tyre construction code

The tyre construction code shall be as follows:

- B for bias-belted construction;