

Cycles —

Part 6: Specification for bicycle rims

ICS 43.150

National foreword

This British Standard reproduces verbatim ISO 5775-2:1996, including amendment 1:2001, and implements it as the UK national standard. It supersedes BS 6102-6:1990 which is withdrawn.

The start and finish of text introduced or altered by ISO amendment is indicated in the text by tags **A1** **A1**. Tags indicating changes to ISO text carry the number of the ISO amendment. For example, text altered by ISO amendment 1 is indicated by **A1** **A1**.

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Summary of pages

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INTERNATIONAL STANDARD

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Bicycle tyres and rims —

Part 2: Rims

*Pneumatiques et jantes pour cycles —
Partie 2: Jantes*



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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 5775-2 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This second edition cancels and replaces the first edition (ISO 5775-2:1989), which has been technically revised.

ISO 5775 consists of the following parts, under the general title *Bicycle tyres and rims*.

- *Part 1: Tyre designations and dimensions;*
- *Part 2: Rims.*

Annex A of this part of ISO 5775 is for information only.

Descriptors: Road vehicles, bicycles, vehicle wheels, rims, dimensions, dimensional measurements, designation.

1 Scope

This part of ISO 5775 specifies rim dimensions for bicycle tyres: it gives only those rim contour dimensions necessary for tyre mounting and to fit the tyre on the rim.

ISO 5775-1 covers designations and dimensions for tyres.

ISO 5775 covers straight side (SS) rims, hooked bead (HB) rims and crotchet type (C) rims.

Annex A presents methods for checking dimensions of straight side rims and hooked bead rims.

2 Symbols

The following symbols are used in this part of ISO 5775.

A	Specified rim width
A_1	Rim width at the tyre bead seat
D	Specified rim diameter
D_1	Measuring rim diameter
D_2	Outer diameter
G	Flange height
H_1	Unobstructed minimum depth above rim base with rim tape fitted to permit tyre fitment
L_1	Well width above rim tape
P	Bead seat width
R_2	Flange radius
R_3	Bead seat radius
R_4	Well top radius
W	Measuring tape width
β	Bead seat angle

3 General requirements

3.1 Rim contour

The rim shall have a smooth contour, free of sharp edges, on the side of the tyre.

3.2 Rim valve hole

The rim valve hole shall be centred on the bottom of the rim well. On the tyre side, the edges shall be rounded or chamfered. On the hub side, the edges shall be free from burrs which could damage the valve.

3.3 Specific requirements

Designation and dimensions for straight side rims, hooked bead rims and crotchet type rims are given in clauses 4, 5 and 6, respectively.

A1 3.4 Rim base protection

Width and thickness of rim base protection shall be chosen in such a way as to guarantee the complete covering of the spoke heads and spoke holes during use, as well as a stable lateral fit, and to permit satisfactory fitting of the tyre and the tube. **A1**

4 Straight side rims

4.1 Rim contours

Dimensions and tolerances of straight side (SS) rims shall be as given in Figure 1 and Table 1. **A1** Straight side rims are to be used only with non-foldable tyres (rigid bead tyres). **A1**

4.2 Rim diameters

The nominal rim diameter code, specified rim diameters and measuring rim diameters for straight side (SS) rims shall be as given in Figure 1 and Table 2.

4.3 Designation and marking

A straight side (SS) rim shall be designated by its nominal rim diameter and its nominal width, optionally preceded by "SS" for straight side.

EXAMPLE

SS 400 × 20

5 Hooked bead rims

5.1 Rim contours

Dimensions and tolerances of hooked bead (HB) rims shall be as given in Figure 2 and Table 3.

5.2 Rim diameters and circumferences

The nominal rim diameter code, specified rim diameters and measuring circumferences for hooked bead (HB) rims shall be as given in Figure 2 and Table 4.

5.3 Designation and marking

A hooked bead (HB) rim shall be designated by its nominal rim diameter and its nominal width, preceded by "HB" for hooked bead.

EXAMPLE

HB 422 × 25

