INTERNATIONAL STANDARD

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AMENDMENT 1
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Cycles – Safety requirements for bicycles for young children

AMENDMENT 1

Cycles – Conditions de sécurité des bicyclettes pour jeunes enfants

AMENDEMENT 1

Reference number
ISO 8098:1989/Amd.1:1992 (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.

Amendment 1 to International Standard ISO 8098:1989 was prepared by Technical Committee ISO/TC 149, *Cycles*, Sub-Committee SC 1, *Cycles and major sub-assemblies*.

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AMENDMENT 1

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Subclause 2.2.1.1

Delete the existing text and substitute the following:

A bicycle having a maximum saddle height of 560 mm or more shall be equipped with two independent braking systems, one system operating on the front wheel and one on the rear wheel.

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2.3.1 Handlebars

Delete the second paragraph and substitute the following:

The ends of the handlebars shall be fitted with handlebar grips or handlebar plugs that will withstand a removal force of 70 N. The handlebar grips or plugs shall be made of resilient material and shall have an enlarged end with a minimum diameter of 40 mm, whilst making sufficient provision to ensure that there is no interference with the operation of any of the brake levers.

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2.6 Wheels

Add the following new subclauses in the appropriate place:

2.6.4 Wheel retention

2.6.4.1 General

Wheels shall be secured to the bicycle frame and fork such that, when adjusted to the manufacturer's recommendations, they comply with 2.6.4.2 and 2.6.4.3.

Wheel axle nuts shall have a minimum removal torque of 80 % of the manufacturer's recommended tightening torque. Where quick-release axle mechanisms are used, they shall comply with 2.6.5.

2.6.4.2 Front wheel retention

There shall be no relative motion between the axle and the front fork when a force 500 N is applied symmetrically to either side of the axle for a period of 30 s in the direction of removal of the wheel.

2.6.4.3 Rear wheel retention

There shall be no relative motion between the axle and the frame when a force of 1 000 N is applied symmetrically to either side of the axle for a period of 30 s in the direction of removal of the wheel.

2.6.5 Quick-release axle mechanisms

2.6.5.1 Operating features

Any quick-release mechanism shall have the following common operating features.

a) The quick-release mechanism shall be adjustable to allow setting for tightness.

b) Its form and marking shall clearly indicate whether the mechanism is in the open or locked position.

c) If it is adjustable by a lever, the force required to close a properly set lever shall not exceed 200 N. At this closing force, there shall be no permanent deformation of the quick-release mechanism.

d) The releasing force of the clamping mechanism when closed shall not be less than 50 N.

e) If operated by a lever, the quick-release mechanism shall withstand without fracture or permanent deformation a closing force of not less than 300 N applied with the adjustment set to prevent full closure under this force.

f) The wheel retention with the quick-release mechanism in the clamped position shall be in accordance with 2.6.4.2 and 2.6.4.3.

If applied to a lever, the forces in c), d) and e) shall be applied 5 mm from the tip end of the lever.

2.6.5.2 Removal

It shall be possible to remove and replace the wheel without disturbing the pre-set condition (including where secondary devices are provided).

2.6.5.3 Operating instructions

Operating instructions shall indicate to the operator a means to determine the correct adjustment of the quick-release mechanism (such as: "The mechanism shall emboss the fork ends when closed to the locked position.").

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Descriptors: road vehicles, bicycles, specifications, safety requirements.

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