



Standard Classification for Bicycle Usage¹

This standard is issued under the fixed designation F 2043; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This classification covers bicycle usage conditions.

2. Terminology

2.1 Definitions:

2.1.1 *bicycle*—a two wheeled, single track, articulated vehicle that is solely human powered.

2.1.2 *conditions*—a generalized description of surface environments and speeds where a bicycle may be ridden.

2.1.3 *technical*—riding environment requiring rapid changes in speed, direction, and balance.

3. Significance and Use

3.1 This classification provides a uniform set of usage definitions within the bicycle industry.

4. Basis of Classification

4.1 *Uses*:

¹ This classification is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.10 on Bicycles.

Current edition approved July 10, 2000. Published August 2000.

4.1.1 *Condition 1*—A set of conditions for operation of a bicycle on a regular paved surface where the tires do not lose ground contact.

4.1.2 *Condition 2*—A set of conditions for operation of a bicycle which include Condition 1 and includes smooth gravel roads and smooth improved trails with moderate grades. This set of conditions is not intended to include terrain that results in the tires losing ground contact.

4.1.3 *Condition 3*—A set of conditions for operation of a bicycle that includes Condition 1 and Condition 2 as well as rough trails, rough unpaved roads, and rough technical areas and unimproved trails. In this set of conditions, contact with irregular terrain and momentary loss of tire contact with the ground may occur.

4.1.4 *Condition 4*—A set of conditions for operation of a bicycle which includes Condition 1, Condition 2, Condition 3, and downhill grades on rough trails at speeds in excess of 40 km/h (25 mph).

5. Keywords

5.1 bicycle; classification; use

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