



Standard Specification and Test Method for Rear-Mounted Bicycle Child Carriers¹

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1. Scope

1.1 This specification covers child carriers that mount to the rear of bicycles in order to transport children or accessory loads with a maximum weight of 18 kg (40 lb). This specification does not apply to child carriers that mount in front of the handlebars, or to the top tube, head tube, or behind the handlebars in front of the rider.

NOTE 1—In the instructions, the manufacturer must warn the rider that a load added to the bicycle will lessen the stability and alter the riding characteristics of the bicycle. This complication is particularly important when riding with children who are near the high end of the weight range.

1.2 The following safety hazards caveat pertains only to the test method portions, Sections 5, 6, and 7, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

B117 Practice for Operating Salt Spray (Fog) Apparatus

2.2 ISO Standards:

ISO/TC149/SC1 N368, Luggage Carriers for Bicycles³

ISO/TC149/SC1 N369, Child Seats for Bicycles, Concepts, Safety Requirements and Testing³

2.3 Government Standards:

Title 16, Code of Federal Regulations, Part 1500.44, Flammability⁴

Title 16, Code of Federal Regulations, Part 1500.48, Sharp Points⁴

Title 16, Code of Federal Regulations, Part 1500.49, Sharp Edges⁴

16 CFR 1501, Small Parts⁴

16 CFR 1303, Lead in Coatings⁴

3. Terminology

3.1 Definitions:

3.1.1 *bicycle child carrier*—a seating device, the shape of which is adapted to the seated position of a child and mounts to the rear of the bicycle, which keeps the child in a comfortable position during the ride.

4. Requirements

4.1 *General*—Child carriers shall be designed and manufactured in such a way that components with which the child or rider come into contact do not cause injuries during normal use, or when used in accordance with the manufacturer's instructions. Surfaces must be free from burrs, sharp edges, and points; if such are present they must be covered by protective coverings. No openings with which the child's hands can come in contact shall have dimensions larger than 6 mm (0.236 in.) but also smaller than 13 mm (0.512 in.), that is, holes with dimensions between 0.236 and 0.512 in. (6 and 13 mm) are forbidden. Child carriers must be equipped with a rear reflector. The manufacturer must warn the rider that a load added to the bicycle will lessen the stability and alter the riding characteristics of the bicycle.

4.2 Structure:

4.2.1 *Assembly*—When assembled in accordance with the instructions provided by the manufacturer, the seat components must be firmly joined and fixed.

4.2.2 *Equipment*—Child carriers shall be equipped with the following equipment:

4.2.2.1 Footrests,

4.2.2.2 Backrest,

4.2.2.3 Armrests (that may be extensions of the sides of the seat surface),

4.2.2.4 Protective devices that prevent contact of hands and feet with moving or movable components of the bicycle which could cause injury, and

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.