



Standard Specification for Nonpowered Bicycle Trailers Designed for Human Passengers¹

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1. Scope

1.1 This specification covers a nonpowered trailer intended to be pulled behind a bicycle in order to transport one or two children with an accessory load of a maximum weight of 45.4 kg (100 lb). It includes test methods for confirming that this specification is satisfied.

1.2 The values stated in SI units are to be regarded as the standard. The units given in parentheses are for information only.

1.3 The following caveat pertains only to the test methods portion, Section 5, 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
D1230 Test Method for Flammability of Apparel Textiles
D4329 Practice for Fluorescent Ultraviolet (UV) Lamp Apparatus Exposure of Plastics
G23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials (Withdrawn 2000)³

2.2 ANSI Standard:⁴

ANSI Z535.4, Product Safety Signs and Labels

2.3 Federal Standards:⁵

Title 16, CFR 1500.3(b)(4)(i) Hazardous Substance
Title 16, CFR 1500.3(c)(6)(vi) Flame Testing
Title 16, CFR 1500.44 Flammability
Title 16, CFR 1500.48 Sharp Points
Title 16, CFR 1500.49 Sharp Edges
Title 16, CFR 1501 Small Parts
Title 16, CFR 1303 Lead in Coatings
Title 16, CFR 1512 Requirements for Bicycles, Sections:
1512.18(n), Reflector Test

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *backrest, n*—the segment of the seat that is designed to support the occupant's back. This may or may not include support for the upper body, including the head and neck.

3.1.2 *bicycle trailer (trailer), n*—a transporting device designed for towing behind a bicycle, which provides a restrained seating position to one or more occupants, with fastening arrangements for attaching the device.

3.1.3 *hard horizontal surface, n*—a surface, perpendicular to the direction of gravity, such as level ground or building floor, whose surface is either concrete, pavement, or similar rigid material whose deflection, while carrying the weight of a fully loaded trailer, does not exceed 12.7 mm (0.5 in.) from the unloaded horizontal plane at any point.

3.1.4 *normal use, n*—applications described as intended use for the product found within the manufacturer's instructional literature.

3.1.5 *normal use temperatures, n*—temperature range within which it should be anticipated that the trailer may be used to transport children. The range is from $-7 \pm 2^{\circ}\text{C}$ to $35 \pm 2^{\circ}\text{C}$ ($-19.4 \pm 4.6^{\circ}\text{F}$ to $95 \pm 4.6^{\circ}\text{F}$).

3.1.6 *occupant, n*—a child or person who is restrained in a seated position inside the trailer and whose efforts do not contribute to the overall operation and performance of the vehicle.

¹ This specification is under the jurisdiction of ASTM Committee F08 and is the direct responsibility of Subcommittee F08.10 on Bicycles.

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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 The last approved version of this historical standard is referenced on www.astm.org.

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

⁵ *Code of Federal Regulations*, available from U.S. Government Printing Office, Washington, DC 20402.