

ANSI Z315.1-2012

# American National Standard

*for Tricycles –  
Safety Requirements*

---

ANSI Z315.1-2012





**ANSI**<sup>®</sup>  
**Z315.1-2012**  
Revision of  
ANSI Z315.1-2006

American National Standard  
for Tricycles –  
Safety Requirements

Sponsor

**Toy Industry Association, Inc.**

Approved November 26, 2012

**American National Standards Institute, Inc.**

# American National Standard

Approval of an American National Standard requires review by ANSI that the requirements for due process, consensus, and other criteria for approval have been met by the standards developer.

Consensus is established when, in the judgement of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made towards their resolution.

The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether he has approved the standards or not, from manufacturing, marketing, purchasing, or using products, processes, or procedures not conforming to the standards.

The American National Standards Institute does not develop standards and will in no circumstances give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute. Requests for interpretations should be addressed to the secretariat or sponsor whose name appears on the title page of this standard.

**CAUTION NOTICE:** This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise, or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published by

**American National Standards Institute, Inc.  
25 West 43rd Street, New York, NY 10036**

Copyright © 2012 by American National Standards Institute  
All rights reserved.

No part of this publication may be reproduced in any form, in an electronic retrieval system or otherwise, without prior written permission of the publisher.

Printed in the United States of America

# Contents

	Page
Foreword .....	ii
<b>1</b> Purpose and scope.....	1
<b>2</b> Normative references .....	1
<b>3</b> Definitions .....	2
<b>4</b> Performance .....	4
<b>5</b> Test procedures.....	9
<b>6</b> Certification.....	13
<b>7</b> Safety and other consumer information.....	14
<b>Table</b>	
<b>1</b> Children’s weight and crotch height versus age .....	10
<b>Figures</b>	
<b>1</b> Examples of tricycles.....	17
<b>2(a)</b> Area to test for protrusions .....	18
<b>2(b)</b> Additional area to test for protrusions.....	19
<b>2(c)</b> Corner, edge, standing wall, and rib dimensional requirements.....	19
<b>2(d)</b> Protrusion test gages.....	20
<b>2(e)</b> Compound protrusion test .....	20
<b>3</b> Test method for sideways stability.....	21
<b>4</b> Test method for forward stability .....	21
<b>5</b> Test method for rearward stability .....	22

**Foreword** (This foreword is not part of American National Standard ANSI Z315.1-2012.)

American National Standard for Tricycles - Safety requirements, ANSI Z315.1-2012, developed as a voluntary standard, was revised by a tricycle engineering committee assembled by the Toy Industry Association, Inc., under the procedures of the American National Standards Institute to provide safety requirements for tricycles.

In compliance with the philosophy expressed in the Consumer Product Safety Act, persons not affiliated with the toy industry, representing consumers, retailers, and general interest groups, also participated in the writing and development of the standard.

Consensus for this revised standard was achieved by use of the Canvass Method.

Suggestions for improvement of this standard will be welcome. They should be sent to Toy Industry Association, Inc, 1115 Broadway, Suite 400, New York, NY 10010.

---

## American National Standard

# for Tricycles – Safety Requirements

## 1 Purpose and scope

### 1.1 Purpose

The purpose of this standard is to establish nationally recognized safety requirements for tricycles and to provide a basis for common understanding among producers, distributors, and users of these products.

### 1.2 Scope

This standard covers the safety requirements for all tricycles intended for use by children 8 years and under. While the addition of a push handle does not by itself change the classification of a product from a tricycle to a stroller (or other juvenile product), there exist in the marketplace some hybrid products (i.e., tricycle/stroller combinations that have canopies, reclining seats, and/or restraint systems, etc.) that are intended and marketed to fulfill both functions. Such products may need to meet the requirements of ASTM F833 (Standard Consumer Safety Performance Specification for Carriages and Strollers) or other applicable standards, in addition to those of this standard.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ASTM D2240, *Standard test method for rubber property – Durometer hardness*<sup>1</sup>

ASTM F833, *Standard consumer safety performance specification for carriages and strollers*<sup>1</sup>

ASTM F963, *Standard consumer safety specification for toy safety*<sup>1</sup>: Section 4.3.5.1—*Heavy elements – Paint and similar surface-coating materials*

16 CFR 1203, *Safety standard for bicycle helmets*<sup>2</sup>

16 CFR 1303, *Ban of lead-containing paint and certain consumer products bearing lead-containing paint*<sup>2</sup>

16 CFR 1500.3(c) (6), *Definitions of extremely flammable, flammable and combustible*<sup>2</sup>

---

<sup>1</sup> This document is available from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-29592.

<sup>2</sup> CFR documents are available from the U.S. Government Printing Office, P.O. Box 371954, Pittsburgh, PA 15250, and at [www.gpo.gov](http://www.gpo.gov).