



**NSAI**  
Standards

Irish Standard  
I.S. EN 13843:2009

# Roller sports equipment - Inline- skates - Safety requirements and test methods

## I.S. EN 13843:2009

*Incorporating amendments/corrigenda issued since publication:*

<i>This document replaces:</i> I.S. EN 13843:2003	<i>This document is based on:</i> EN 13843:2009 EN 13843:2003	<i>Published:</i> 8 April, 2009 9 May, 2003	
This document was published under the authority of the NSAI and comes into effect on: 3 July, 2009		ICS number: 97.220.40	
<b>NSAI</b> 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	<b>Sales:</b> T +353 1 857 6730 F +353 1 857 6729 W standards.ie	<b>Price Code:</b> F
Údarás um Chaighdeáin Náisiúnta na hÉireann			

English Version

## Roller sports equipment - Inline-skates - Safety requirements and test methods

Équipement de sports à roulettes - Patins à roulettes en  
ligne - Exigences de sécurité et méthodes d'essai

Rollsportgeräte - Inline-Skates - Sicherheitstechnische  
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 5 March 2009.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

## Contents

Foreword.....	3
1 Scope .....	4
2 Normative references .....	4
3 Terms and definitions .....	4
4 Requirements .....	4
4.1 General.....	4
4.2 Classification of inline-skates .....	4
4.2.1 Class A.....	4
4.2.2 Class B.....	5
4.3 Safety requirements .....	5
4.3.1 Protruding components and edges .....	5
4.3.2 Binding elements .....	5
4.3.3 Chassis .....	5
4.3.4 Starting and/or braking devices .....	5
4.3.5 Self-locking fixings .....	6
5 Testing .....	6
5.1 Test specimen .....	6
5.2 Test conditions .....	6
5.3 Last.....	6
5.4 Test specimen 1 .....	6
5.4.1 General.....	6
5.4.2 Protruding components and edges .....	6
5.4.3 Coefficient of adhesion of wheels.....	6
5.4.4 Horizontal frontal impact against the front wheel .....	7
5.4.5 Vertical impact against the starting and/or braking device .....	8
5.4.6 Continuous test.....	8
5.4.7 Loosening of attached starting and/or braking devices.....	9
5.5 Test specimen 2.....	9
5.5.1 Attachment of the chassis to the shoe.....	9
5.5.2 Vertical impact test.....	10
6 Marking .....	11
7 Information supplied by the manufacturer .....	11
7.1 General.....	11
7.2 Contents .....	11
7.2.1 General.....	11
7.2.2 Information about the construction of the inline-skate .....	11
7.2.3 Instructions for use .....	11
7.2.4 Servicing and maintenance instructions .....	12
7.2.5 Inline-skate's class .....	12

## **Foreword**

This document (EN 13843:2009) has been prepared by Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and equipment", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2009, and conflicting national standards shall be withdrawn at the latest by October 2009.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13843:2003.

In relation to EN 13843:2003 the following main changes have been introduced:

- a) 5.3 "Last" added;
- b) 5.4.7 "Loosening of attached starting and/or braking devices" added;
- c) attachment of the chassis to the shoe in former 5.4.1 modified;
- d) service and maintenance in former 7.2.3 b) modified.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## **1 Scope**

This standard is applicable to inline-skates intended for users with a body mass of more than 20 kg and less than 100 kg.

It specifies safety requirements for inline-skates, specifications for test methods, marking and information supplied by the manufacturer to reduce the risk of injuries to both third parties and the user during their normal use.

Inline-skates for use by a rider of less than 20 kg do not belong to the scope of this European Standard. They are toys.

This Standard does not apply to roller skates according to EN 13899.

NOTE Requirements for inline-skates from the orthopedic point of view such as lateral support or similar were not included in this standard because these requirements differ from wearer and therefore cannot be covered by a standard.

## **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 22768-1, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1:1989)*

## **3 Terms and definitions**

For the purposes of this document, the following terms and definitions apply.

### **3.1**

#### **inline-skate**

roller sports equipment whose wheels are arranged inline and which can be attached

- a) to the users boot or shoe by means of straps;
- b) as an integrated part of a boot or shoe;
- c) as a detachable chassis of a purpose built boot or shoe

### **3.2**

#### **binding element**

element for the attachment of the inline-skate to the user's foot or shoe

## **4 Requirements**

### **4.1 General**

General tolerances: EN 22768-v.

### **4.2 Classification of inline-skates**

#### **4.2.1 Class A**

Inline-skates intended for use by a user mass of more than 20 kg up to 100 kg.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
  - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-