

SLOVENSKI STANDARD SIST EN ISO 4210-4:2014

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Kolesa - Varnostne zahteve za kolesa - 4. del: Preskusne metode za zavore (ISO 4210-4:2014)

Cycles - Safety requirements for bicycles - Part 4: Braking test methods (ISO 4210iTeh STANDARD PREVIEW 4:2014)

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Fahrräder - Sicherheitstechnische Anforderungen an Fahrräder - Teil 4: Prüfverfahren für Bremsen (ISO 4210-4:2014)

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EN ISO 4210-4:2014 Ta slovenski standard je istoveten z:

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43.150 Kolesa Cycles

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM **EN ISO 4210-4**

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English Version

Cycles - Safety requirements for bicycles - Part 4: Braking test methods (ISO 4210-4:2014)

Cycles - Exigences de sécurité des bicyclettes - Partie 4: Méthodes d'essai de freinage (ISO 4210-4:2014)

Fahrräder - Sicherheitstechnische Anforderungen an Fahrräder - Teil 4: Prüfverfahren für Bremsen (ISO 4210-4:2014)

This European Standard was approved by CEN on 21 June 2014.

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-CENELEC 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-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

EN ISO 4210-4:2014 (E)

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EN ISO 4210-4:2014 (E)

Foreword

This document (EN ISO 4210-4:2014) has been prepared by Technical Committee ISO/TC 149 "Cycles" in collaboration with Technical Committee CEN/TC 333 "Cycles" the secretariat of which is held by UNI.

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 January 2015, and conflicting national standards shall be withdrawn at the latest by July 2015.

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 14764:2005, EN 14766:2005, EN 14781:2005.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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The text of ISO 4210-4:2014 has been approved by CEN as EN ISO 4210-4:2014 without any modification.

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INTERNATIONAL STANDARD

ISO 4210-4

First edition 2014-07-01

Cycles — Safety requirements for bicycles —

Part 4: **Braking test methods**

Cycles — Exigences de sécurité des bicyclettes —

iTeh STPartie 4: Méthodes d'essai de freinage (standards.iteh.ai)



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 149, *Cycles*, Subcommittee SC 1, *Cycles and major sub-assemblies*.

SIST EN ISO 4210-4:2014

This first edition of ISO 4210-4, **together with ISO 4210-1, ISO 4210-2, ISO 4210-3, ISO** 4210-5, ISO 4210-6, ISO 4210-7, ISO 4210-8, and ISO 4210-9, **cancels and replaces ISO 4210:1**996, which has been technically revised.

ISO 4210 consists of the following parts, under the general title *Cycles* — *Safety requirements for bicycles*:

- Part 1: Terms and definitions
- Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles
- Part 3: Common test methods
- Part 4: Braking test methods
- Part 5: Steering test methods
- Part 6: Frame and fork test methods
- Part 7: Wheels and rims test methods
- Part 8: Pedals and drive system test methods
- Part 9: Saddles and seat-post test methods

Introduction

This International Standard has been developed in response to the demand throughout the world. The aim is to ensure that bicycles manufactured in compliance with this International Standard will be as safe as is practically possible. The tests are designed to ensure the strength and durability of individual parts as well as of the bicycle as a whole, demanding high quality throughout and consideration of safety aspects from the design stage onwards.

The scope is limited to safety considerations, and has specifically avoided standardization of components.

If the bicycle is to be used on public roads, national regulations apply.

For the purpose of improvement of repeatability and reproducibility, and considering the applicability to all types of bicycle and the size and influence of the operator, the machine test method reflects today's state of the art and is preferred to the track test method.

Unless there is evidence of improvement of the test track method in the future, make this method informative for the next revision. Users of this International Standard are invited to provide their feedback to the $ISO/TC\ 149/SC\ 1$.

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SIST EN ISO 4210-4:2014

Cycles — Safety requirements for bicycles —

Part 4:

Braking test methods

1 Scope

This part of ISO 4210 specifies the braking test methods for ISO 4210-2.

2 Normative references

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

ISO 4210-1, Cycles — Safety requirements for bicycles — Part 1: Terms and definitions

ISO 4210-2:2014, Cycles — Safety requirements for bicycles — Part 2: Requirements for city & trekking, young adult, mountain and racing bicycles DARD PREVIEW

3 Terms and definitions (standards.iteh.ai)

For the purposes of this document, the terms and definitions given in ISO 4210-1 apply.

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4 Test methods

4.1 Brake lever grip dimensions

4.1.1 Test method for the brake lever similar to type A or type B

Fit the gauge illustrated in Figure 1 over the handlebar grip or the handlebar (when the manufacturer does not fit a grip) and the brake lever as shown in Figure 2 so that face A is in contact with the handlebar or grip and the side of the brake lever. Ensure that face B spans an area of that part of the brake lever which is intended for contact with the rider's fingers without the gauge causing any movement of the brake lever towards the handlebar or grip. Measure the distance, a, the distance between the last part of the lever intended for contact with the rider's fingers and the end of the lever. The measurement should be conducted only on a fully assembled bicycle.