

Irish Standard I.S. EN ISO 4210-5:2014&LC:2015

Cycles - Safety requirements for bicycles - Part 5: Steering test methods (ISO 4210-5:2014, Corrected version 2015-02-01)

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I.S. EN ISO 4210-5:2014&LC:2015

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National Foreword

I.S. EN ISO 4210-5:2014&LC:2015 is the adopted Irish version of the European Document EN ISO 4210-5:2014, Cycles - Safety requirements for bicycles - Part 5: Steering test methods (ISO 4210-5:2014, Corrected version 2015-02-01)

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Correction Notice

EN ISO 4210-5:2014

Reference:

Cycles - Safety requirements for bicycles - Part 5: Steering test methods (ISO 4210-5:2014, Corrected version 2015-02-01)		
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It has been brought to our attention that this document, issued on 2014-08-13, requires modification.

ISO has published on 2015-02-01 a corrected version for ISO 4210-5:2014 (English & French).

Please find enclosed the updated English and French versions.



Correction Notice

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It has been brought to our attention that this document, issued on 2014-07-02, requires modification.

In the Foreword, the date of withdrawal is updated to read "July 2015" and addition of the sentence "This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association".

Please find enclosed the updated English and French versions.

We apologise for any inconvenience this may cause.

EUROPEAN STANDARD

EN ISO 4210-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2014

ICS 43.150

Supersedes EN 14764:2005, EN 14766:2005, EN 14781:2005

English Version

Cycles - Safety requirements for bicycles - Part 5: Steering test methods (ISO 4210-5:2014, Corrected version 2015-02-01)

Cycles - Exigences de sécurité des bicyclettes - Partie 5: Méthodes d'essai de guidage (ISO 4210-5:2014, Version corrigée 2015-02-01) Fahrräder - Sicherheitstechnische Anforderungen an Fahrräder - Teil 5: Prüfverfahren für die Lenkung (ISO 4210-5:2014)

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

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

EN ISO 4210-5:2014 (E)

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EN ISO 4210-5:2014 (E)

Foreword

This document (EN ISO 4210-5:2014) 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.

Endorsement notice

The text of ISO 4210-5:2014, Corrected version 2015-02-01 has been approved by CEN as EN ISO 4210-5:2014 without any modification.

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INTERNATIONAL STANDARD

ISO 4210-5

First edition 2014-07-01 Corrected version 2015-02-01

Cycles — Safety requirements for bicycles —

Part 5: **Steering test methods**

Cycles — Exigences de sécurité des bicyclettes — Partie 5: Méthodes d'essai de guidage





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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*.

This first edition of ISO 4210-5, together with ISO 4210-1, ISO 4210-2, ISO 4210-3, ISO 4210-4, ISO 4210-6, ISO 4210-7, ISO 4210-8, and ISO 4210-9, cancels and replaces ISO 4210:1996, 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

This corrected version of ISO 4210-5:2014 incorporates a change in Figure 6 and a correction of the format of all tables.

Introduction

This International Standard has been developed in response to demand throughout the world, and the aim has been to ensure that bicycles manufactured in compliance with this International Standard will be as safe as is practically possible. The tests have been 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 has been limited to safety considerations, and has specifically avoided standardization of components.

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

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Cycles — Safety requirements for bicycles —

Part 5:

Steering test methods

1 Scope

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

2 Normative references

The following 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 and trekking, young adult, mountain and racing bicycles

ISO 4210-3:2014, Cycles - Safety requirements for bicycles - Part 3: Common test methods

3 Terms and definitions

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

4 Test methods

4.1 Handlebar grips and plugs

4.1.1 Freezing test

Immerse the handlebar, with handlebar grips or plugs fitted, in water at room temperature for 1 h and then place the handlebar in a freezer until the handlebar is at a temperature lower than -5 °C. Remove the handlebar from the freezer and allow the temperature of the handlebar to reach -5 °C, and then apply a force of 70 N to the grip or plug in the loosening direction as shown in Figure 1. Maintain the force until the temperature of the handlebar has reached +5 °C. It shall be permitted to create a hole in the plug to allow for the testing fixture to be fitted so long as the hole does not affect the seat of the plug in the handlebar and the fixture does not contact the handlebar during the test.



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