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Cycles — Components and assemblies used in bicycles — Innovative requirements and test methods

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European foreword

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1 Scope

The purpose of this document is to provide innovative requirements and test methods applicable to any components and assemblies of any category of bicycles (city, trekking, MTB, young adult and racing). Its aim is to provide technical solutions that reduce the risk of component failure and rider injury during the specified use of such bicycles.

This document makes reference to current "state of the art" standards in the field of bicycles, agreed at CEN level through the publication of the EN ISO 4210 series of standards. Therefore, the requirements and tests proposed in this document are intended to be read and applied in accordance with the appropriate EN ISO 4210 standard.

NOTE The tests described in this document refer in places to clause numbers from the applicable EN ISO 4210 series.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 ISO 4210-2:2015, *Cycles - Safety requirements for bicycles - Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles (ISO 4210-2:2015)*

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

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

EN ISO 4210-6:2015, *Cycles - Safety requirements for bicycles - Part 6: Frame and fork test methods (ISO 4210-6:2015)*

EN ISO 4210-7:2014, *Cycles - Safety requirements for bicycles - Part 7: Wheels and rims test methods (ISO 4210-7:2014)*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— IEC Electropedia: available at https://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

4 Frames designed for disc brake

4.1 Background

The forces applied to a bicycle frame by disc brakes are different in magnitude and location to those applied by rim brakes, so specific tests and requirements are necessary to ensure safety. This section sets out test procedures and minimum safety requirements for disc brake frames.

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