

INTERNATIONAL STANDARD

ISO
4210-6

First edition
2014-07-01

Corrected version
2014-11-01

Cycles — Safety requirements for bicycles —

Part 6: Frame and fork test methods

*Cycles — Exigences de sécurité des bicyclettes —
Partie 6: Méthodes d'essai du cadre et de la fourche*



Reference number
ISO 4210-6:2014(E)

© ISO 2014



COPYRIGHT PROTECTED DOCUMENT

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Frame test methods	1
4.1 Frame — Impact test (falling mass)	1
4.2 Frame and front fork assembly — Impact test (falling frame)	4
4.3 Frame — Fatigue test with pedalling forces	6
4.4 Frame — Fatigue test with horizontal forces	8
4.5 Frame — Fatigue test with a vertical force	9
5 Fork test methods	11
5.1 Suspension forks — Tyre-clearance test	11
5.2 Suspension forks — Tensile test	12
5.3 Front fork — Static bending test	12
5.4 Front fork — Rearward impact test	13
5.5 Front fork — Bending fatigue test and rearward impact test	16
5.6 Forks intended for use with hub or disc brakes	17
5.7 Tensile test for a non-welded fork	19
Annex A (normative) Dummy fork characteristics	20
Annex B (normative) Fork mounting fixture	22
Annex C (informative) Suspension frames — Tyre-clearance test	24