

Certificates & Declarations

Test Report

enviolo

Test:	European Bicycle Standards (Rear Hub Durability and Strength Criteria)
Test Articles:	CVP's: enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP Shifters: enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP
Date:	5 DEC 2017
Reference:	ISO 4210:2014(E) which supersedes: <ul style="list-style-type: none">• EN 14764:2005• EN 14766:2005• CEN/TC 333 N.96:2002• DIN 79100-2:1999 ISO 8098:2014(E), US CPSC 16 CFR Part 1512
Test Method:	Reference standard tests specific to rear hub durability and strength criteria
Test Location:	Fallbrook Technologies Inc., Cedar Park, TX

Test Results:

The enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP are tested to industry standards for internal hubs, as well as proprietary additional tests specific to NuVinci technology in use with traditional, as well as electric- assist bicycles (eBikes or pedelecs) up to 250W (rated) power for the enviolo CT, enviolo CO, enviolo TR and up to 500W (rated) power for the enviolo CA, enviolo SP.

Specifically, the enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP meet rear hub durability and strength criteria for bicycle standard ISO 4210:2014(E) and ISO 8098:2014(E). The enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP shifters comply with requirements set forth in ISO 4210:2014(E) and ISO 8098:2014(E). In addition, the enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP hubs and enviolo CT, enviolo CO, enviolo TR, enviolo CA, enviolo SP shifters meet US CPSC 16 CFR Part 1512.

Proprietary Fallbrook Technologies Inc. testing that exceeds industry standards include:

- Durability (simulating 18,000 km of use at extreme conditions)
- Dynamic Shift Test
- Canted Wheel Bump Fatigue Test
- Coasting Fatigue Test
- Hub Shell and Cover Axial Fatigue Test
- Hub Shell spoke Flange Fatigue and Ultimate Tests
- Brake Fatigue Test
- Shifter System Durability Test
- Corrosion Resistance Test
- Weatherability / UV Test
- Environmental Intrusion Test
- Ride Audit Test (including cold weather testing)
- End of Line Efficiency, Ratio Range, and Leak Tests

Rev C

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Certificate of Compliance – RoHS Declaration

enviolo

Fallbrook Technologies Inc.
505 Cypress Creek Road, Suite L
Cedar Park, TX 78613

12/05/17

Fallbrook Technologies certifies product compliance to the European Union Directive 2011/65/EU on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS).

All enviolo automatic brand system components comply with the stated substances and maximum concentration values tolerated by weight in homogeneous materials.

Lead (0,1 %)
Mercury (0,1 %)
Cadmium (0,01 %)
Hexavalent chromium (0,1 %)
Polybrominated biphenyls (PBB) (0,1 %)
Polybrominated diphenyl ethers (PBDE) (0,1 %)

Fallbrook Technologies relies on its supply chain partners to ensure daily compliance.



VP of Operations

Declaration of Conformity

enviolo

Manufacturer:

Fallbrook Technologies Inc.
505 Cypress Creek Road, Suite L
Cedar Park, TX 78613

Authorized Representative:

Richard Hilgart
Fallbrook Technologies Inc.
Technical Product Manager
Popovstraat 12
8013 RK Zwolle, The Netherlands

Product Name: enviolo Automatic and Automatic + Shifting System with belt drive compatibility. The enviolo Automatic and Automatic + Shifting System with belt drive compatibility consists of the following components:

(1) enviolo AUTOMATIQ Hub Interface ("AHI-AUT"), enviolo Automatic + Hub Interface ("AHI-AUTI"); (2) "Y" or "I" Harness, and (3) may include Grip shifter Controller ("ARC") or 3-button controller. A picture of the enviolo Automatic Shifting System is attached as Exhibit A.

The object of declaration described above is in conformity with Directive 2004/108/EC of the European Parliament and the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Testing Body: VDE Testing Certification Institute
Merianstrasse 28
63069 Offenbach
Notified Body No.: 0366

Date of Conformity: 1 September 2016

This declaration is issued under the sole responsibility of the Manufacturer and Authorized Representative described above.

Signed for on behalf of Fallbrook Technologies Inc.:



Richard Hilgart
Technical Product Manager



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Declaration of Conformity

Manufacturer:

enviolo
Vijzelstraat 68-72
1017 HL Amsterdam

Authorized representative:

Peter Kreuder
enviolo
Director of Product Management
Vijzelstraat 68-72
1017 HL Amsterdam

Product Name: enviolo AUTOMATI*Q* shifting system with belt drive compatibility. The enviolo AUTOMATI*Q* shifting system with belt drive compatibility consists of the following components:

(1) enviolo AUTOMATI*Q* Hub Interface (“AHI-CT/AHI-CO/AHI-TR/AHI-CA/AHI/SP”), (2) enviolo AUTOMATI*Q* “i” Harness, and (3) may include 3-button controller (“ARC”). A picture of the enviolo AUTOMATI*Q* Shifting System is attached as Exhibit A.

The object of declaration described above is in conformity with Directive 2004/108/EC of the European Parliament and the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Testing Body:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Company registration: 09085396
Date of Conformity: 1 September 2019

This declaration is issued under the sole responsibility of the Manufacturer and is signed by its Authorized Representative described above.

Signed for on behalf of enviolo:



Peter Kreuder
Director of Product Management



Exhibit A

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REACH (Regulation, Evaluation, and Authorization of Chemicals) Declaration:

enviolo

Fallbrook Technologies Inc.
505 Cypress Creek Road, Suite L
Cedar Park, TX 78613

Effective Date: October 20, 2015

Supplier Declaration for Articles Provided

We declare that this information is true and complete to the best of our knowledge and that the articles we provide are compliant with restrictions on substances listed in Annex XVII of REACH regulations (15.06.2015). As a Non-EU company, we do not have a direct REACH obligation but we do verify compliance with Annex XVII to allow our customers to fulfill their REACH obligations. Fallbrook Technologies does not manufacture "substances" or "preparations" nor do we provide articles that involve the "intentional release of substances" per the definitions in Regulation (EC) No 1907/2006 – REACH.



VP of Operations