

Summary of test results

Summary of test results relating to a manual wheelchair in combination with an electrical power assist according to the European standard EN 12184, concerning the wheelchair with trade mark: Quickie, type: Easy Life, version: 07200100, manufactured by Sunrise Medical GmbH and the electrical power assist with trade mark: WheelDrive, version: E1801, manufactured by INDES B.V.

Summary number	89213030-02
Date	26-10-2018
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Client	INDES B.V. Pantheon 28 7521 PR Enschede The Netherlands
Project number	89213030
Project name	Manual wheelchair of Sunrise Medical with electrical power assist of INDES B.V.
Number of pages	6



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Summary of test results

This is a summary of test results that contains the most important information: sample description, standard, summary, conclusion (pass/fail). Full and detailed test results are stored in our project files.

1. Purpose

The tests have been performed in order to establish whether or not the product meets the requirements as indicated in clause 9 of this report.

2. Description of the sample(s), identification

Subject	Specification/value
Manufacturer wheelchair	Sunrise Medical GmbH
Trade mark wheelchair	Quickie
Type wheelchair	Easy Life
Version wheelchair	07200100
Serial number wheelchair	203181513141201
Manufacturer electrical power assist	INDES B.V.
Trade mark electrical power assist	Quickie WheelDrive
Version electrical power assist	E1801
Serial number electrical power assist	BF201709010006
Max. user weight	130 kg
Dummy mass	130 kg
Propulsion	rear wheel drive
Trade mark and version of motor(s)	Trade mark: Quickie WheelDrive, version: E1801
Trade mark and type of front tyre	Trade mark: Ro, type: 140x40
Trade mark and type of rear tyre	Trade mark: Marathon Plus, type: Evolution Line
Trade mark and type of battery	Trade mark: Wheeldrive, type: NIMH Batterie
Trade mark and type of battery charger	Trade mark: Wheeldrive, type: EP-SUP012B

For pictures is referred to Appendix A.

3. Sampling procedure

TÜV Rheinland B.V. has had no influence on the selection of the sample.

The sample was test-worthy and was received on 16 May 2018 from the manufacturer.

4. Application

The request for testing was submitted by the manufacturer on February 02, 2018.

5. Method of testing

All applicable tests have been performed according to the European Standard EN12183 [1] and European Standard EN 12184 [2].

6. Accreditation

TÜV Rheinland Nederland B.V. has been accredited by the Dutch Accreditation Council (RvA) as ISO 17025 Test Laboratory (nr. L 484) and product certification body (nr. C 078).

The reported tests were performed under ISO 17065 accreditation, unless otherwise specified as 'not under Accreditation'.

For an overview of all TÜV Rheinland Nederland B.V. accreditations, notifications and designations, please visit our website www.tuv.com/nl. You can find the relevant declarations under the download link.

7. Ambient temperature

The ambient temperature during all tests was between 18 and 25 degrees Celsius.

8. Summary of test results

Summary of test results after performing the following tests according to the European Standard EN 12184.

Par.	Subject	Result (pass/fail/n.a.)
8.1.2	Ability to climb rated slope	pass
8.1.3	Ground unevenness	pass
8.1.4	Maximum downhill speed	pass
8.1.5	Dynamic stability	pass
8.1.6	Obstacle climbing and descending	pass
8.1.7	Static stability	pass
8.1.8	Maximum speed	pass
8.1.9	Distance range	15,5km
8.2	Static, impact and fatigue strength	pass
8.4	Climatic performance	pass

9. Conclusion

The wheelchair, trade mark: Quickie, type: Easy Life, version: 07200100, in combination with the electrical power assist with trade mark: WheelDrive, version: E1801, manufactured by INDES B.V., meets the following requirements.

- EN 12184 § 8.1.2 Ability to climb rated slope
- EN 12184 § 8.1.3 Ground unevenness
- EN 12184 § 8.1.4 Maximum downhill speed
- EN 12184 § 8.1.5 Dynamic stability
- EN 12184 § 8.1.6 Obstacle climbing and descending
- EN 12184 § 8.1.7 Static stability
- EN 12184 § 8.1.8 Maximum speed
- EN 12184 § 8.2 Static, impact and fatigue strength
- EN 12184 § 8.4 Climatic performance
- EN 12183 § 9.2 Braking functions
- ISO 7176-21:2009 EMC

Since the EN12183 does not recognize the classes of the wheelchairs, there is no explicit requirement for the distance range. The test conform EN 12184:2014 § 8.1.9 resulted in a distance range of 15,5km.

The test results exclusively relate to the tested object.



10. Remarks

The basis of this configuration is the Sunrise Medical Quickie Easy life manual wheelchair. The applicable standard for manual wheelchairs is the EN12183:2014. Clause 11 of the EN12183:2014 states that the wheelchair combined with the electrically powered ancillary equipment shall conform to the applicable requirements of the EN12184. The EN12183 does not recognize the classes of wheelchairs as known in the EN12184.

11. References

- [1] European Standard EN 12183:2014 (E), Manual wheelchairs - Requirements and test methods, European Committee of Standardization, March 2014.
- [2] European Standard EN 12184:2014 (E), Electrically powered wheelchairs, scooters and their chargers - Requirements and test methods, European Committee of Standardization, March 2014.

12. Signatures

Author	Signature
Mr. T.W.J. Zandvliet, BSc. Expert medical products	
Approved by	Signature
Mr. M.J.H. Braun, B.E. Expert medical products	

Appendix A, Pictures of the tested product



Pictures of the tested sample, trade mark: Quickie, type: Easy Life, version: 07200100, in combination with the electrical power assist with trade mark: WheelDrive, version: E1801, manufactured by INDES B.V.