

EN 12184

Electrically powered wheelchairs, scooters and their chargers — Requirements and test methods

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Testing laboratory	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Address	588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.
Applicant	IF Health (Xiamen) Intelligent Technology Co., Ltd.
Address	Zone A, 4th Floor, No.3 building, No. 66, Xiangyue Rd, Torch High-tech Zone (Xiang'an) Industrial zone, Xiamen, Fujian, China
Test Specification:	
Standard	EN 12184:2014
Test procedure	SGS-CSTC
Non-standard test method	N/A
Test item description	Electrical Wheelchair
Trademark	
Manufacturer	IF Health (Xiamen) Intelligent Technology Co., Ltd. Zone A, 4th Floor, No.3 building, No. 66, Xiangyue Rd, Torch High-tech Zone (Xiang'an) Industrial zone, Xiamen, Fujian, China
Model/type reference	YFLB-01
Series/Batch No.	YFLB-0120191008005
Type Class & Maximum Speed	Class B, 6.4 km/h
Maximum Occupant mass	100 kg
Power Rating	Charger (Model: FY29010000) Input: AC 100-240 V, 50/60 Hz, 5 A Max, Output: DC 29 V, 10 A Rechargeable Li-ion Battery (Model: JWM-W241-00) : 24 Vdc, Nominal 70 Ah Motor(Model: YA515A/B): 24 Vdc, 450 W, 5.5 A max.



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<p>List of Attachments (including a total number of pages in each attachment):</p> <p>Attachment 1: Technical documentation for 16 pages.</p> <p>Attachment 2: Photos documentation for 4 pages.</p>	
<p>Summary of testing</p> <p>The EUT has been tested and found to be compliant with applicable requirements in this standard.</p>	
<p>Tests performed (name of test and test clause):</p> <p>8.1.2 Ability to climb rated slope</p> <p>8.1.3 Ground unevenness</p> <p>8.1.4 Maximum downhill speed</p> <p>8.1.5 Dynamic stability</p> <p>8.1.6 Obstacle climbing and descending</p> <p>8.1.7 Static stability</p> <p>8.1.8 Maximum speed</p> <p>8.1.9 Distance range</p> <p>8.2 Static, impact and fatigue strength</p> <p>8.4 Climatic performance</p> <p>9.1.2.2 Test for foot support gap</p> <p>9.2 Component mass</p> <p>9.5 Resistance to ignition</p> <p>10.1.2 Test for determination of brake operating forces</p> <p>10.2.2.1 Test for determination of the effectiveness of running brakes</p> <p>10.2.2.2 Test for determination of effectiveness of parking brakes</p> <p>10.2.2.3 Test for protrusion of parts of the parking brakes</p> <p>10.2.2.4 Test method for fatigue strength of parking brakes</p> <p>10.3 Test for freewheel device</p> <p>11.1 Operations intended to be carried out by the occupant and/or assistant</p> <p>11.2 Operations intended for operation by the occupant</p> <p>11.3 Operations intended for operation by an assistant</p> <p>11.5 Test for Operating forces</p> <p>11.6 Seating adjustments for tilt and recline systems</p> <p>12.2 Circuit protection</p> <p>12.3 Battery chargers</p> <p>12.8 Switching off while driving</p>	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.</p> <p>588 West Jindu Rd, Xinqiao, Songjiang 201612 Shanghai CHINA</p>
<p>Summary of compliance with National Differences (List of countries addressed):</p> <p>N/A</p>	






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Copy of marking plate

Power wheelchair

 <p>Electric Wheelchair</p>	<p>Model: YFLB-01</p> <p>Input Power: 360VA Max.Speed: 6.4km/h</p> <p>Max.Load: 100kg Period of use: 5 years</p> <p>Charger Input : AC110-220V , 50/60Hz, Class I</p>	
	<p>2019-10-8</p> <p>IPX4</p> <p>2019-10-8</p>	
<p>SN  Y F L B - 0 1 2 0 1 9 1 0 0 8 0 0 5</p>		
<p>IF Health (Xiamen) Intelligent Technology Co.,Ltd. Zone A, 4th floor, No.3 building, No.66, xiangyue Rd, Torch high-tech zone (xiang'an) industrial zone, Xiamen, Fujian, China. TEL:0592-7618199 www.if-health.com</p>		

Battery charger:

<p>Fuyuang</p> <p>FOR 29.4V LI-ION BATTERY</p>	<p>开关电源充电器 BATTERY CHARGER</p> <p>RoHS</p> <p>型号MODEL:FY29010000</p> <p>输入INPUT:10.0-24.0V~50.0Hz 5.0A Max</p> <p>输出OUTPUT: 29V 10A</p> <p>显示 LED: 绿色GREEN ≤ 1A</p>	<p>CE</p> <p>CCC</p> <p>UL</p> <p>GS</p> <p>RoHS</p> <p>VI</p> <p>T10A</p>	<p>警告</p> <p>不得拆开使用, 谨防雨淋.</p> <p>CAUTION</p> <p>RISK OF ELECTRIC SHOCK</p> <p>DRY LOCATION USE ONLY</p> <p>AVERTISSEMENT</p> <p>POUR UTILISATION A L'INTERIEUR SEULEMENT</p>	<p>制造商: 东莞市福洋电子有限公司</p> <p>经销商: 裕夫(厦门)智能科技有限公司</p> <p>批次号: FY20190827001</p>
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Battery:

 IF Health (Xiamen) Intelligent Technology Co.,Ltd.	
Product name: Lithium battery pack	Voltage: 24V
Model: JWM-W241-00	Capacity: 70Ah
Date: 2020-04-12	7INP27/149/93
Charging Voltage: 29.4V	
LOT  DC7020200412001	 
 Warning	 
1. Please use lithium battery charger; 2. Do not dissect or modify the battery structure; 3. Forbidden to directly connect the positive and negative poles with metal; 4. Never immerse the battery in water or throw it into a fire; 5. Do not drop, impact, squeeze or puncture the battery.	

Controller:

	
PG CONTROLLER	SN K Z 2 0 1 9 1 0 1 0 0 0 3
Model: JWM-W19-00	Voltage: 24V
Supplier: IF Health (Xiamen) Intelligent Technology Co., Ltd.	Max. current: 80A

Motor

DongGuan DAYA Electrical Engineering Co.,Ltd.	
	Tel:+86-769-85321400 Fax:+86-769-85329648 Http://www.ya-cheng.com.tw
WORKING VOLTAGE : 24VDC	
RATED POWER : 450W	
UNLOADING CURRENT : < 5.5A	
UNLOADING SPEED : 112	
NO : 20190400043	MODEL:YA515A/B



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GENERAL INFORMATION	
Test item particulars	
Intended environment of use.....	Indoor room and Outdoor room
Type of battery charger	Off-board
Accessories and detachable parts included	Battery charger Lap belt User manual
Other options include.....	N/A
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement.....	P (Pass)
- test object was not evaluated for the requirement:	N/E
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2020-12-10
Date (s) of performance of tests.....	2021-12-10 to 2021-05-06
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>	
Manufacturer's Declaration:	
The application for obtaining a Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided :	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
Name and address of factory (ies).....	IF Health (Xiamen) Intelligent Technology Co., Ltd. Zone A, 4th Floor, No.3 building, No. 66, Xiangyue Rd, Torch High-tech Zone (Xiang'an) Industrial zone, Xiamen, Fujian, China



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General product information:

The Wheelchair is intended to provide mobility to individuals who are comfortable with operating a powered wheelchair at a home healthcare environment and some outdoor environment.

The Wheelchair is classified as type Class B with 100 kg including occupant and any carried items weight capacity. It is basic conventional rear wheels drive, rigid frame vehicle that are battery powered. It consists four sealed transaxle motors drive system, electromagnetic braking system, electric motor controller and a Li-ion battery with an off-board battery charger. It is powered by rechargeable battery with 35.7 km which maximum speed up to 6.4 km/h.

The control system with a joystick attaches to armrest and allows the rider to control the movement and velocity of the powered wheelchair. When the joystick is released, the electromagnetic brake will be actuated, and the power wheelchair is slow to stop.

The device has no essential performance and a risk analysis has been carried out in accordance with ISO 14971: 2012, and relevant documents and records are checked. Risk management plan, doc#: IFH-QR-RD-01, V1.0 and risk management report, doc#: IFH-QR-RD-02, V1.0.

Regarding to electromagnetic compatibility of wheelchair and battery charger were evaluated according to ISO 7176-21 test report (Report No.: SHEM201201057601).

The size of the dummy (100 kg) used is according to ISO 7176-11: 2012 and fit the dummy in the wheelchair as specified in ISO 7176-22: 2000. Also, supplementary weights (10 kg) and human test occupant (90 kg) are used. In this report all tests were carried out under 22 °C to 25 °C as ambient temperature separately.

Condition of acceptability:

Biocompatibility and toxicity, contaminants and residues, infection and microbiological contamination and clinical evaluation in Clause 6 is excluded in this report.

Clause 12.9 for software regrading to EN 62304: 2006 was not evaluated in this report.



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Clause	Requirement + Test	Result – Remark	Verdict
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5.	TYPE CLASSES		P
	Wheelchairs shall be classified in one or more of the following three classes, dependent upon their intended use:		P
	— Class A: compact, manoeuvrable wheelchairs not necessarily capable of negotiating outdoor obstacles;		N/A
	— Class B: wheelchairs sufficiently compact and manoeuvrable for some indoor environments and capable of negotiating some outdoor obstacles;		P
	— Class C: wheelchairs, usually large in size, not necessarily intended for indoor use but capable of travelling over longer distances and negotiating outdoor obstacles.		N/A

6	GENERAL REQUIREMENTS		P
	The wheelchair shall conform to the requirements specified in EN 12182 for the following:	See EN 12182 table in attachment 1.	P
	Indented performance and technical documentation		P
	Aids that can be dismantled;		P
	Single use fasteners;		P
	Biocompatibility and toxicity;		N/E
	Contaminants and residues;		N/E
	Infection and microbiological contamination;		N/E
	Overflow, spillage, leakage and ingress of liquids;		P
	Safety of moving parts;		P
	Prevention of traps for parts of human body;		P
	Folding and adjustment mechanism;		P
	Surface, corners, edge;		P
	Clinical evaluation;		N/E
	Ergonomics.		P
	A risk analysis shall also be carried out in accordance with EN ISO 14971:2012.	Risk Management Report, Doc#: IFH-QR-RD-02, version V2.0	P



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Clause	Requirement + Test	Result – Remark	Verdict
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7.	PREPARATION FOR TESTING		P
7.1	General		P
	Unless otherwise specified in Clauses 8, 9, 10, 11 and 12, the wheelchair shall be prepared for testing as specified in ISO 7176-22:2000 with the following modification.		P
	If a test procedure requires the use of a test dummy or human test occupant, they shall be selected and fitted as specified in 7.2 or 7.3.		P
7.2	Test dummy		P
	Select a test dummy, as specified in ISO 7176-11:2012, of mass equal to the maximum occupant mass specified by the wheelchair manufacturer, with a tolerance of 0 kg to +5 kg.	Test dummy: 100 kg	P
	Fit the test dummy in the wheelchair as specified in ISO 7176-22:2000.		P
7.3	Human test occupant		P
	Select a human test occupant whose mass, in combination with any supplementary weights as specified in 4.7, is equal to the maximum occupant mass specified by the wheelchair manufacturer, with a tolerance of 0 kg to + 5 kg.	Human test occupant: 90 kg Supplementary weights: 10 kg	P
	Seat the occupant in the wheelchair and position and secure the supplementary weights to give substantially the same mass distribution as the test dummy when fitted as specified in ISO 7176-22:2000.		P

8.	WHEELCHAIR PERFORMANCE		P
8.1	Performance of driving characteristics		P
8.1.1	General		P
	The loaded wheelchair shall meet the driving performance requirements specified in Table 1 and Table 2 for the type class of the wheelchair as specified in Clause 5.		P
8.1.2	Ability to climb rated slope		P
8.1.2.1	Requirements		P
	The wheelchair shall be capable of climbing at a speed not less than 2 km/h.		P
	— the applicable rated slope for the type class of wheelchair specified in Table 1, or		N/A



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	— the rated slope specified by the manufacturer, whichever is greater.	10 °	P
	The wheelchair passes the test specified in 8.1.2.2 if it achieves or exceeds a speed of 2 km/h after travelling 5 m up the slope.		P
8.1.2.2	Test		P
	Adjust the gradient of the adjustable test plane specified in 4.1 to the required angle, ± 0,5°.		P
	Starting on the adjustable test plane, drive the loaded wheelchair up the adjustable test plane using the maximum speed command. Use the means to measure speed specified in 4.5.	>2km/h	
	When the wheelchair has travelled (5,0 ± 0,1) m up the slope, measure and record the speed to an accuracy of ± 10 %.		
8.1.3	Ground unevenness		P
8.1.3.1	Principle		P
	It is important that a wheelchair is able to drive on uneven terrain without stopping even if one wheel is at a higher level than the others.		P
8.1.3.2	Requirement		P
	The wheelchair shall be capable of driving when any of its wheels is raised to a height specified in Table 1 for ground unevenness.		P
8.1.3.3	Test		P
	a) Place the loaded wheelchair on the horizontal test plane. b) Place the test block specified in 4.8 under one wheel, such that one of its largest faces is flat on the test plane with the centre of the block beneath the point of contact with the wheel. c) Attempt to drive the loaded wheelchair off the test block. d) Record the result of the test. e) Repeat for the remaining wheels, one at a time. f) The test is passed if the wheelchair is able to drive off the test block for each wheel.	30 mm Two front wheels and two rear wheels complied.	P
8.1.4	Maximum downhill speed		P
8.1.4.1	Requirement		P
	The wheelchair shall not exceed 125 % of its maximum speed on the horizontal, when driving down		P



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EN 12184: 2014			
Clause	Requirement + Test	Result – Remark	Verdict
	— the applicable rated slope for the type class of wheelchair specified in Table 1, or		N/A
	— the rated slope specified by the manufacturer, whichever is greater.	10°	P
8.1.4.2	Test		P
	a) Drive the loaded wheelchair at maximum speed down a gradient with the required slope, ± 0,5°. b) Measure the speed achieved using the means specified in 4.5. c) Record the measured speed and record whether the wheelchair has met the requirement.	Measured Max. speed on horizontal: 6.4 km/h Measured Max. speed on slope specified by manufacturer: 7.7 km/h	P
8.1.5	Dynamic stability		P
8.1.5.1	Requirements		P
	The dynamic response score of the wheelchair shall be 2 or 3 as specified in Table A.1 of ISO 7176-2:2001 when tested on		P
	— the applicable rated slope for the type class of wheelchair specified in Table 1, and	3°	P
	— the rated slope specified by the manufacturer.	10°	P
8.1.5.2	Test		P
	a) Load the wheelchair with the test dummy in accordance with 7.2. Do not use a human test occupant.		P
	b) Test the loaded wheelchair in accordance with ISO 7176-2:2001 with the following modifications: 1) for tests on slopes the test plane is inclined relative to the horizontal at the angle stated in Table 1 for the type class of the wheelchair; 2) fixed test ramps or adjustable test ramps may be used; 3) the test environment specified in Annex F may be used when testing wheelchairs with a maximum speed of 10 km/h or greater, on slopes of 10° or steeper; 4) if the manufacturer recommends a technique for driving on a slope, test the wheelchair using only the recommended technique; if not, the test methods are unmodified; 5) apply only the clauses listed below:		P



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	i) for rearwards dynamic stability: I) 8.1 Wheelchair preparation; II) 8.2 Starting forwards; III) 8.3 Stopping after travelling forwards (horizontal only); IV) 8.4 Braking when travelling backwards;	Refer to ISO 7176-2 test report.	P
	ii) for forward dynamic stability: I) 9.1 Wheelchair preparation; II) 9.2 Braking when travelling forwards;	Refer to ISO 7176-2 test report.	P
	iii) for dynamic stability in lateral directions: I) 10.1 Wheelchair preparation; II) 10.2 Turning on a slope (does not apply to manually steered wheelchairs).	Refer to ISO 7176-2 test report.	P
	c) If the rated slope specified by the manufacturer is greater than the applicable rated slope for the type class of wheelchair specified Table 1, repeat b) with the test plane set at the rated slope specified by the manufacturer.	Refer to ISO 7176-2 test report.	P
8.1.6	Obstacle climbing and descending		P
8.1.6.1	Requirements		P
	The wheelchair shall be capable of climbing and descending obstacles of the height specified in Table 1 for the type class of the wheelchair without any part of the wheelchair other than wheels or a kerb climbing device contacting the obstacle or the test plane.		P
8.1.6.2	Test		P
	Put the wheelchair into the least-stable configuration specified by the manufacturer. If the manufacturer does not specify some or all settings for the least-stable configuration, use settings within the range of adjustment specified in the manufacturer's instructions for use to achieve the least-stable configuration.	Least-stable configuration specified by manufacture.	P
	Test the wheelchair as specified in ISO 7176-10:2008 for climbing and descending a test obstacle of the height specified in Table 1 for the type class of the wheelchair.	Refer to ISO 7176-10 test report.	P



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	If the manufacturer specifies a method for climbing and descending steps, kerbs or obstacles, test as specified in ISO 7176-10:2008 using only the manufacturer's method. If the manufacturer specifies a run-up distance greater than that specified in ISO 7176-10:2008, limit the run-up distance to the maximum specified in that document. If the manufacturer of the wheelchair does not specify a method for climbing and descending steps, kerbs or obstacles, test as specified in ISO 7176-10:2008 using the methods specified in that document.	Test as specified method in ISO 7176-10. 50 mm	P
8.1.7	Static stability		P
8.1.7.1	Requirements		P
	The wheelchair shall meet or exceed the minimum requirements for static stability specified in Table 1 for the type class of the wheelchair.		P
8.1.7.2	Test		P
	Test the loaded wheelchair in the least-stable configuration for each direction as specified in ISO 7176-1:1999 to determine whether it meets or exceeds the angles in Table 1 for the type class of the wheelchair.	Refer to ISO 7176-1 test report.	P
8.1.8	Maximum speed		P
8.1.8.1	Requirements		P
	The maximum speed of the wheelchair when travelling forwards and travelling in reverse on the horizontal shall not exceed the maximum speed requirements specified in Table 1 for the type class of the wheelchair.	Complied.	P
8.1.8.2	Test		P
	Test the loaded wheelchair as specified in ISO 7176-6:2001 for the maximum forward speed and maximum reverse speed on a horizontal surface.		P
	Record the results and determine whether the requirement has been met.	Refer to ISO 7176-6 test report.	P
8.1.9	Distance range		P
8.1.9.1	Requirements		P
	The theoretical continuous driving distance range for the wheelchair shall not be less than the requirement specified in Table 1 for the type class of the wheelchair.		P



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8.1.9.2	Test		P
	Load the wheelchair as specified in ISO 7176-4:2008, except that the mass of the load shall be the maximum occupant mass or 100 kg, whichever is the lower.	Test person: 90kg, supplement weights: 10kg Total 100 kg loaded.	P
	Test the loaded wheelchair as specified in ISO 7176-4:2008.		P
	Record the results and determine whether the requirement has been met.	Refer to ISO 7176-4 test report.	P
	It is recognised the use of shorter test tracks in the range specified by ISO 7176-4:2008 could give smaller values of theoretical distance range. Use of the largest specified track length should be treated as the referee method.	100 m test track used.	P
8.2	Static, impact and fatigue strength		P
8.2.1	Requirements		P
	The wheelchair shall conform to the requirements of ISO 7176-8:1998 with the exception that wheelchairs of Class A are not required to be tested as specified in ISO 7176-8:1998, 10.5, drop test.	Refer to ISO 7176-8 test report.	P
	Arm supports shall conform to the static loading requirements of ISO 7176-8:1998 in all intended operating positions.	Refer to ISO 7176-8 test report.	P
	For wheelchairs with a maximum occupant mass greater than 75 kg but not greater than 100 kg, the maximum upward force to be applied to each single push handle shall be (880±26) N.		N/A
	Where the manufacturer specifies a maximum occupant mass greater than 100 kg the forces specified in Table 3 shall apply.		P
8.2.2	Test		P
	Test the wheelchair in accordance with ISO 7176-8:1998 with modifications as specified in 8.2.1.		P
8.3	Wheelchairs for use as seats in motor vehicles		N/A
	If the manufacturer specifies that the intended use of the wheelchair includes use as a seat in a motor vehicle by an occupant of mass 22 kg or greater, the wheelchair shall conform to the performance requirements of ISO 7176-19:2008 with the following modifications.	Not such wheelchair.	N/A



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	— 4.1.2 is replaced by the following: If a wheelchair is intended by the manufacturer to also be secured by a docking securement device in public transportation and/or different private vehicles, the securement points on the wheelchair and/or of the wheelchair tiedown adaptors shall conform to the performance requirements in Clause 5.		N/A
	— 5.2.1 a) is replaced by the following: If the wheelchair has a head restraint, the horizontal excursions of the ATD and the wheelchair, with respect to the impact sled, shall not exceed the limits in Table 7 at any time during the test.		N/A
	If the wheelchair does not have a head restraint, the horizontal excursions of the ATD and the wheelchair, with respect to the impact sled, shall not exceed the limits in Table 7 at any time during the test with the exception that the excursion of the back of the head of the ATD, Xhead, R, shall not be measured.		N/A
	— 5.2.2 e) is replaced by the following: Primary occupant-load-carrying components of the wheelchair shall not show visible signs of failure, unless there is a backup system to provide support.		N/A
8.4	Climatic performance		P
	The wheelchair shall conform to the requirements of ISO 7176-9:2009.	Refer to ISO 7176-9 test report.	P

9.	COMPONENT PROPERTIES		P
9.1	Foot supports, lower leg supports and arm supports		P
9.1.1	Requirements		P
	The wheelchair was fitted with foot supports that have a means of positioning the occupant's feet at the required height and prevent the occupant's feet from sliding backwards.		P
	Any swing away, movable or removable foot support, lower leg support assembly or arm support fitted on the wheelchair shall:	No such swing away, movable or removable foot support, lower leg support assembly or arm support.	N/A
	a) incorporate a means to locate it securely in any intended operating position,		N/A
	b) be adjustable in increments not exceeding 25 mm,		N/A



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	c) be accessible and operable by the occupant or an assistant or both in accordance with the manufacturer's intended use of the wheelchair,		N/A
	d) be within the reach space shown in Figure 1, and		N/A
	e) be operable without the use of tools.		N/A
	Where the wheelchair has separate foot supports which have a gap between them or the possibility of a gap being formed when they are loaded,		N/A
	f) means to prevent the occupant's feet from sliding into the gap shall be provided, or		N/A
	g) when the foot supports are tested in accordance with 9.1.2.2, any gap between them shall meet the requirement for safe distances between stationary parts specified in EN 12182.		N/A
9.1.2	Test methods		N/A
9.1.2.1	Test for general performance		N/A
	<p>a) Fit foot supports, lower leg support assemblies and arm supports in the operating position(s) specified in the manufacturer's instructions.</p> <p>b) Adjust the foot supports, lower leg support assemblies and arm supports as specified in the manufacturer's instructions.</p> <p>c) Record whether the foot supports, lower leg support assemblies and arm supports have met the requirements.</p>	No such swing away, movable or removable foot support, lower leg support assembly or arm support.	N/A
9.1.2.2.2	Test for foot support gap		N/A



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	<p>a) Simultaneously apply a force $F^{+5_0}N$ to the centroid of each foot support, normal to the plane of the unloaded foot support. In cases where the foot support has no identifiable plane, apply the force within 5° of vertical. The force F is calculated from the following equation:</p> $F = 0,125 \times m \times g$ <p>where F is the force applied to each foot support, expressed in newtons; m is the maximum occupant mass specified by the manufacturer, expressed in kilograms; g is the acceleration due to gravity, 9,81 m/s².</p> <p>b) Apply the force for 5 s to 10 s.</p> <p>c) While the force is being applied measure the shortest distance between the foot supports.</p> <p>d) Record whether the foot supports have met the requirements.</p>	No such swing away, movable or removable foot support, lower leg support assembly or arm support.	N/A
9.2	Component mass		P
	If the wheelchair is intended to be dismantled for storage or transportation, any component that requires moving or handling that has a mass greater than 10 kg shall be provided with suitable handling devices (e.g. handles). The manufacturer shall provide information indicating the points where such components can be lifted and describing how they shall be handled during disassembly, lifting, carrying, and assembly to reduce risks to the person or persons moving or handling them.	Information provided in User Manual	P
9.3	Pneumatic tyres		N/A
	All pneumatic tyres on the wheelchair shall have the same type of valve connection. Valves should be readily accessible when using the intended inflating tool.	No such tyres used.	N/A
	The tyres or the rims shall be marked with the maximum pressure in kPa, bar or PSI.		N/A
9.4	Anterior pelvic support		P



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	The wheelchair shall have provision for an anterior pelvic support to be fitted. The manufacturer of the wheelchair shall have available as an option an anterior pelvic support which can be used with that provision.	Lap belts provided.	P
9.5	Resistance to ignition		P
9.5.1	Upholstered composite parts		P
	For upholstered parts which are composites of cover and filling, with or without a support base or interliner, the complete composite shall be tested by the methods specified in EN 1021-2:2006 or ISO 8191-2:1988. Progressive smouldering ignition and flaming ignition as defined in the Standard applied shall not occur.	Seat cushion and back cushion are evaluated. Method specified in ISO 8191-2: 1988 used. Progressive smoldering ignition and flaming ignition does not occur. See ISO 7176-16 Test report.	P
9.5.2	Foam materials		N/A
	For foam materials which form all or part of a seat, back support, postural support, arm support or lower leg support and which consist of foam material with or without an integral skin, the material of each part shall be tested with the source applied centrally to the surface intended to support the occupant by the methods specified in EN 1021-2:2006 or ISO 8191-2:1988 (see Figure 2). Progressive smouldering ignition and flaming ignition as defined in the Standard applied shall not occur.	No such foam materials.	N/A
9.5.3	Other parts in contact with the occupant		P
	For sling seats, sling backs, belts, restraint harnesses, foot supports and clothing guards, the material of each item shall be tested with the source applied centrally to the surface intended to contact or support the occupant by the methods specified in EN 1021-2:2006 or ISO 8191-2:1988. Progressive smouldering ignition and flaming ignition as defined in the Standard applied shall not occur.	Lap belt is evaluated. Method specified in ISO 8191-2: 1988 used. Progressive smoldering ignition and flaming ignition does not occur.	P
	Belts that are intended for use as restraints in motor vehicles may, as an alternative, meet the requirements of FMVSS 302 or equivalent.	Not use as restraints in motor vehicles.	N/A
9.5.4	Power and control systems		P
	Either of the following options a) or b) apply.		P



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	a) The manufacturer adopt appropriate means to eliminate or reduce as far as reasonably practicable the risk of a hazardous situation developing from the ignition of any part of the power and control system of the wheelchair. The manufacturer used the process specified in EN ISO 14971:2012 to manage that risk.		N/A
	b) The power and control system of the wheelchair meet the requirements of ISO 7176-14:2008, 9.7, resistance to ignition.	Refer to ISO 7176-14 test report.	P

10	PROPULSION AND BRAKING SYSTEMS		P
10.1	Means for operating brakes		P
10.1.1	Requirement		P
	a) Means for operating brakes were:	Automatic brake provided. No operating brakers used.	N/A
	1) be accessible and operable by the occupant or an assistant or both in accordance with the manufacturer's intended use of the wheelchair;		N/A
	2) be within the reach space shown in Figure 1, if the wheelchair is intended to be operated by the occupant;		N/A
	3) be within the reach space shown in Figure 3, if the wheelchair is intended to be operated solely by an assistant;		N/A
	4) have operating forces for engaging and disengaging that do not exceed those stated in Table 1 when tested in accordance with 10.1.2;		N/A
	b) If one or more brake levers are fitted to a wheelchair in the form used on bicycles and mopeds:	No brake lever used.	N/A
	1) for wheelchairs with a maximum occupant mass not greater than 150 kg, the force applied to each lever to hold the loaded wheelchair stationary on the rated slope shall not exceed 60 N;	Automatic brake provided.	N/A
	2) for wheelchairs with a maximum occupant mass greater than 150 kg, the force applied to each lever to hold the loaded wheelchair stationary on the rated slope should not exceed 60 N;	Not greater than 150 kg.	N/A
	3) the handgrip width of such brake levers when no force is applied, measured 15 mm from the end of the brake lever, shall not be greater than 100 mm and should not be greater than 80 mm (see Figure 4).	No brake lever used.	N/A



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Clause	Requirement + Test	Result – Remark	Verdict
	c) Means for releasing parking brakes shall be protected against activation caused by accidental contact.	Protected.	P
10.1.2	Test for determination of brake operating forces		N/A
	a) Adjust the brakes as specified by the manufacturer.	Automatic brake provided. No operating brakes used.	N/A
	b) Select the part of the lever through which the force is to be applied as shown in Figure 5.	No brake lever used.	N/A
	1) If the lever is fitted with a generally spherical knob, apply the force through the centre of the knob.	No brake lever used.	N/A
	2) If the lever is tapered, apply the force through the point where the largest cross section intersects the centre line of the lever.	No brake lever used.	N/A
	3) If the lever is parallel or any shape other than those above, apply the force through a point on the centre line of the lever 15 mm from the end.	No brake lever used.	N/A
	4) If the form of the lever is such that the lever is gripped by the whole hand apply the force through the centre line of the lever 15 mm from the end.	No brake lever used.	N/A
	5) If the brake is operated by pushing or pulling a bar or pad, apply the force to the centroid of the bar or pad.	Automatic brake provided. No operating brakes used.	N/A
	c) Apply the brakes while measuring the force with the device specified in 4.4 aligned in the direction of travel of the point of application of the force in order to measure the maximum application force required. d) Release the brakes while measuring the force with the device specified in 4.4 aligned in the direction of travel of the point of application of the force in order to measure the maximum releasing force required. e) Perform c) and d) three times in total and record the measurements. f) Calculate and record the arithmetic mean value of the application and the release forces measured separately. g) Determine whether or not the requirements for operating forces stated in Table 1 have been met.	Automatic brake provided. No operating brakes used.	N/A
10.2	Braking functions		P
10.2.1	Requirements		P



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Clause	Requirement + Test	Result – Remark	Verdict
	a) The wheelchair have a running brake which operates independently of tyre wear and tyre inflation pressure and which does not exceed the maximum stopping distance specified in Table 2 when tested in accordance with 10.2.2.1.	Automatic running brake provided.	P
	b) The wheelchair have a running brake which, when operated after the wheelchair has been put into freewheel mode, shall bring the wheelchair to a stop.	By freewheel mode is ended.	P
	c) The wheelchair have an automatic brake, which operates independently of tyre wear and tyre inflation pressure and which is operated by releasing the control device to achieve a zero speed command (e.g. spring loaded disc brake).	Electromagnetic brakes provided.	P
	d) The wheelchair shall have a parking brake which operates independently of tyre wear and tyre inflation pressure (e.g. drum brake in wheels, spring loaded disc brake).	By freewheel mode is ended.	P
	e) Parking brakes meet the parking brake effectiveness requirement in Table 1 when tested in accordance with 10.2.2.2.		P
	f) Parking brakes were operable when there is no power from the battery supplying the drive system.		P
	g) Parking brakes were operable when the wheelchair is in freewheel mode (see NOTE 1).	By freewheel mode is ended.	P
	h) If they are subject to wear, parking brakes have provision for adjustment and/or replacement as specified by the manufacturer.	No such adjustment or replacement available	N/A
	i) If the wheelchair is fitted with arm supports that can be moved or removed to enable transfer, when tested in accordance with 10.2.2.3, engaged parking brakes shall not have parts that protrude above the level of the occupied seat.	Under occupied seat.	P
	j) When parking brakes are tested in accordance with 10.2.2.4, no parking brake mechanism shall move from the pre-set position and no component or assembly of parts shall show visible signs of cracks, breakages, gross deformations, free play, loss of adjustment or any other damage that adversely affects the function of the wheelchair.		P
	k) Following testing of the parking brake in accordance with 10.2.2.4, parking brakes shall meet the parking brake effectiveness requirement in Table 1 when tested again in accordance with 10.2.2.2.		P
10.2.2	Test methods		P
10.2.2.1	Test for determination of the effectiveness of running brakes		P



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Clause	Requirement + Test	Result – Remark	Verdict
	Perform the tests for normal, reverse command and emergency operation specified in 7.3, 7.4 and 7.5 of ISO 7176-3:2012 using the loaded wheelchair on the horizontal and on the steepest slope specified in ISO 7176-3:2012 less than or equal to the rated slope. The wheelchair fails the requirement if the maximum stopping distance specified in Table 2 of this European Standard is exceeded on the horizontal, or if the wheelchair fails to stop on the test slope.	Refer to ISO 7176-3 test report.	P
10.2.2.2	Test for determination of effectiveness of parking brakes		P
	<p>a) Adjust the parking brake in accordance with the manufacturer's instructions without exceeding the operating force requirements stated in Table 1.</p> <p>b) Test the loaded wheelchair facing uphill in accordance with ISO 7176-3:2012, with the test plane inclined to the horizontal at the applicable angle stated in Table 1 for the type class of the wheelchair or at the rated slope specified by the manufacturer, whichever is greater.</p> <p>c) Repeat b) with the wheelchair facing downhill.</p> <p>d) Determine whether the parking brake holds the loaded wheelchair stationary on the slope.</p>	Refer to ISO 7176-3 test report.	P
10.2.2.3	Test for protrusion of parts of the parking brakes		P
	<p>a) Engage the parking brake.</p> <p>b) Move or remove the arm support to enable transfer.</p> <p>c) Check whether any part of the parking brake protrudes above the level of the occupied seat.</p>	Arm support can not be removed.	P
10.2.2.4	Test method for fatigue strength of parking brakes		P



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Clause	Requirement + Test	Result – Remark	Verdict
	<p>a) Carry out the test with the parking brake mounted on the wheelchair or mounted on a suitable test fixture that simulates mounting on the wheelchair. If the wheelchair is fitted with two identical brakes (left and right), test only one of the brakes.</p> <p>b) Adjust the parking brake in accordance with the manufacturer's instructions without exceeding the operating force requirements stated in Table 1.</p> <p>c) Move the lever operating the brake smoothly from the non-braking position to the braking position for 60 000 cycles at a frequency not greater than 0,5 Hz (4.12). Carry out maintenance during testing only in accordance with the manufacturer's instructions.</p> <p>d) Inspect the brake mechanism and determine whether it has met the requirement.</p> <p>e) If a test fixture was used, return the brake mechanism to the wheelchair.</p>	60000 cycles complied.	P
10.3	Freewheel device		P
	The wheelchair shall be fitted with a freewheel device that shall		P
	— be accessible and operable by the occupant or an assistant or both in accordance with the manufacturer's intended use of the wheelchair,		P
	— be within the reach space shown in Figure 1, if the wheelchair is intended to be operated by the occupant,		N/A
	— be within the reach space shown in Figure 3, if the wheelchair is intended to be operated solely by an assistant;		P
	— have operating forces for engaging and disengaging that do not exceed those stated in Table 1,		P
	— be operable without detaching any parts,		P
	— not depend on the battery power supplying the motor drive system,		P
	— have two defined positions including clear indication of freewheel mode and drive mode,		P
	— prevent use of the wheelchair's drive system, if the freewheel device is activated.		P



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Clause	Requirement + Test	Result – Remark	Verdict
	A battery independent from the motor drive battery may be used to supply energy to enable freewheel mode.	No such independent battery used.	N/A
	Freewheel devices shall be protected against activation caused by accidental contact.		P

11	OPERATIONS		P
11.1	Operations intended to be carried out by the occupant and/or assistant		P
	Wheelchairs shall be designed to facilitate ease of operation by the occupant and/or assistant as specified in the manufacturer's instructions.	Information provided in User Manual, IFH-PS-RD-YFLB-01-01, Version No. 1.0	P
	— operation of adjustable seating and adjustment of postural supports,		P
	— use of detachable components, including removable arm supports, lower leg support assemblies, etc., to facilitate safe transfers into and out of the wheelchair,		P
	— use of folding mechanisms, including folding frames, etc., to facilitate storage and transportation of unoccupied wheelchairs,		P
	— carrying out maintenance, including use of tools, etc.,		P
	— use of manual steering controls,		P
	— use of braking systems and freewheel devices,		P
	— use of assistant controls,	No such assistant controls.	N/A
	— use of control devices.		P
11.2	Controls intended for operation by the occupant		P
	Controls intended to be operated by the occupant while seated shall be within the occupant reach space shown in Figure 1.		P
	The following controls, if fitted, are included:		P
	— on/off switch or key,	Switch button fitted.	P
	— speed regulator,		P
	— speed pre-setting,		P
	— running brake,		P
	— parking brake,		P
	— audible warning device,		P
	— direction indicator,	No such direction indicator fitted.	N/A



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Clause	Requirement + Test	Result – Remark	Verdict
	— direction switch,	No such direction switch fitted.	N/A
	— control device,		P
	— manual steering controls,	No such manual steering controls fitted.	N/A
	— lighting controls,		P
	— seating adjustments,	No seating adjustments.	N/A
	— detachable components, including removable arm supports, lower leg support assemblies, etc., to facilitate safe transfers into and out of the wheelchair,		P
	— steering controls,	Joystick used to steer.	P
	— freewheel device.		P
11.3	Controls intended for operation by an assistant		P
	Controls intended to be operated by an assistant shall be within the reach space shown in Figure 3.		P
	— brakes,	Freewheel device.	P
	— control devices,		N/A
	— push handles, and	No such parts used.	N/A
	— electrical ancillary equipment.	No such parts used.	N/A
11.4	Assistant control unit, push handles and handgrips		N/A
11.4.1	Requirements		N/A
	Switches intended to be operated by an assistant while driving the wheelchair shall be attached to an assistant control unit.	No assistant control unit.	N/A
	When an assistant control unit is fitted,		N/A
	— the unit shall be positioned behind the wheelchair's back support, between 900 mm and 1 200 mm from the floor to the centre of the operating means for the control device (e.g. joystick handle), and		N/A
	— there shall be a means to support the assistant's hand or hands used to operate the control device.		N/A
	When push handles are fitted, no part of the wheelchair shall lie within a space to the rear of the wheelchair bounded by the following:		P
	— a plane at 85° to the horizontal, that touches the rearmost points of the push handles as shown in Figure 6;		P



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Clause	Requirement + Test	Result – Remark	Verdict
	— two planes not less than 350 mm apart equidistant from a vertical plane parallel to the forward direction of travel that bisects the wheelchair, unless the intended occupant is a child;		P
	— the horizontal test plane.		P
	When the wheelchair is fitted with steering and/or manoeuvring handgrips for use by an assistant, the handgrips shall be at least 75 mm in length and between 20 mm and 50 mm in diameter.		P
	When manoeuvring handgrips are fitted with controls that are intended to be used by being gripped by one hand, the handgrip width when no force is applied shall not be greater than 100 mm and should not be greater than 80 mm (see Figure 4).	No such handgrips.	N/A
11.4.2	Test method		N/A
11.5	Operating forces		P
11.5.1	Requirements		P
	All controls, except for means to operate brakes, shall have operating forces for engaging and releasing that do not exceed those stated in Table 1 when tested in accordance with 11.5.2.		P
	In addition, to achieve the intended function of the system or device being operated, for knobs intended to be gripped and turned by one hand	No such knob.	N/A
	— where the diameter of the knob is greater than or equal to 25 mm and the force is transmitted by friction, the numerical value of the torque, expressed in Nm, shall not be greater than 0,05 times the numerical value of the diameter of the knob, expressed in mm, and		N/A
	— where the diameter of the knob is less than 25 mm diameter, the numerical value of the torque, expressed in Nm, shall not be greater than 0,025 times the numerical value of the diameter of knob, expressed in mm.		N/A
11.5.2	Test method		P
	a) Position a means to apply force or torque as applicable: 1) where the operation is performed by pushing or pulling, position the means to apply force parallel to the direction of operation and in the middle of the knob or button;		P



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Clause	Requirement + Test	Result – Remark	Verdict
	2) in the case of a lever of length 30 mm or greater, position the means to apply force at a distance of 15 mm from the end of the operating lever;	No such lever of length great than 30 mm.	N/A
	3) in the case of a lever of length less than 30 mm, position the means to apply force at the midpoint of the lever;		P
	4) for a turning knob, use a suitable means (e.g. a force gauge) to measure torque concentrically on the knob.	No such knob.	N/A
	b) Gradually increase the force or torque until the intended function of the system or device as specified by the manufacturer's instructions is achieved. c) Measure and record the maximum operating force. d) Perform b) to c) three times in total. e) Calculate and record the arithmetic mean of the three recorded measurements.	Push button: 1.3 N Joystick: 1.4 N Freewheel release lever: 37.2 N	P
11.6	Seating adjustments for tilt and recline systems		N/A
11.6.1	Requirements		N/A
	If the manufacturer specifies that the seating can be adjusted by an assistant or the occupant or both while the occupant is seated, the assistant and/or the occupant shall not have to lift a mass (e.g. the combined mass of the occupant and the seating) which presents a moving and handling safety hazard to the assistant and/or the occupant.	Can not be adjusted while the occupant is seated.	N/A
	Controls for seating adjustments intended to be operated by the occupant shall be accessible to the occupant from all seating positions.		N/A
11.6.2	Test method		N/A
	a) Adjust the seating as specified in the manufacturer's instructions. b) Record whether the wheelchair has met the requirements.		N/A

12	ELECTRICAL SYSTEMS	P
12.1	General requirements	P



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EN 12184: 2014			
Clause	Requirement + Test	Result – Remark	Verdict
	The wheelchair shall conform to the requirements of ISO 7176-14:2008, except as specified in 9.5.4.	See ISO 7176-14 test report.	P
	The wheelchair and battery charger shall conform to the requirements of ISO 7176-21:2009.	See ISO 7176-21 test report.	P
	In addition, wheelchairs that include an on-board battery charger shall conform to the applicable electrical requirements of EN 60601-1:2006.	Not on-board battery charger.	N/A
12.2	Circuit protection		P
	The driving, braking and steering functions shall not be affected by the operation of the means of protection of any other circuit.		P
	Lights, direction indicators and hazard warning flasher functions shall not be affected by the operation of the means of protection of any other circuit.		P
	Circuit protection devices that carry the total current of the battery set may be used.		P
	Battery chargers		P
	Battery chargers for wheelchairs conform to the requirements of ISO 7176-14:1997 that apply to battery chargers, together with the following provisions:		P
	a) battery chargers indicate when charging is in progress and when charging is complete;		P
	b) battery chargers have the capability of charging batteries discharged to 70 % of their nominal voltage;		P
	c) battery chargers operate without the need for intervention or supervision apart from connecting and turning on at the start of charging and turning off and disconnecting at the end of charging;		P
	d) carry-on and on-board battery chargers meet the environmental protection requirements of IPX4 when tested in accordance with EN 60529:1991 and shall meet the Class II Test Voltage requirements of EN 60335-1:2012 following the test.	Off board battery charger.	N/A
12.4	Charging connector		P
	The wheelchair have a charging connector that is readily accessible and operable by the occupant or an assistant or both in accordance with the manufacturer's intended use of the wheelchair.	Accessible and operable for operator.	P
	The requirement is verified by inspection.		P
12.5	Battery enclosures and containers		P



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Clause	Requirement + Test	Result – Remark	Verdict
	Battery enclosures and containers provide protection so that it should not be possible for liquids dropping from above to enter into them and onto any cell or battery they contain.		P
12.6	Emergency stop		P
	The wheelchair was fitted with one or more emergency stop devices to enable actual or impending danger to be averted.	On/off switch used.	P
	Each emergency stop device was:		P
	— be clearly identifiable, clearly visible and quickly accessible by the intended operator, and		P
	— stop the hazardous process as quickly as practicable, without creating additional risks.		P
	Once active operation of the emergency stop device has ceased following a stop command, that command shall be sustained by the wheelchair until that engagement is specifically overridden. It was not possible to engage the device without triggering a stop command. It shall be possible to disengage the device only by an appropriate operation, and disengaging the device shall not restart the wheelchair but only permit restarting.		P
	The emergency stop function was available and operational at all times, regardless of the operating mode.		P
	Emergency stop devices were a back-up to other safeguarding measures and not a substitute for them.		P
	Additional emergency stop devices may be attached to a wheelchair to be operated by an assistant. Where the intended occupant has an impairment which restricts their ability to operate an emergency stop device, the risk assessment should take this into account.	No such emergency stop devices used.	N/A
12.7	Lighting		P
	Wheelchairs intended by the manufacturer for outdoor use was supplied with integral lighting suitable for the operations concerned where the absence thereof is likely to cause a risk despite ambient lighting of normal intensity.		P
	Wheelchairs were subject to national requirements for lighting and reflectors.		N/A
	If there are no national requirements, the manufacturer conform to applicable automotive Directives of the European Union (76/756/EEC [12], 97/28/EC [13]).	Manufacturer declared.	P



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12.8	Switching off while driving		P
	If the wheelchair is switched off while driving on the horizontal, it shall come to a stop within the maximum stopping distances specified in Table 2.		P
12.9	Software		N/E
	Software that is embedded in the wheelchair or is an integral part of the wheelchair, and the malfunction of which could give rise to a hazardous situation, shall be developed and maintained in accordance with EN 62304:2006.		N/E
	This requirement does not apply to software produced before the date of withdrawal of EN 12184:2009, but it does apply to software modifications that are made after that date.		N/E

13	INFORMATION SUPPLIED BY THE MANUFACTURER		P
13.1	General		P
	Each wheelchair was provided with documentation and labelling that conforms to the requirements in EN 12182 and ISO 7176-15:1996.	Complied.	P
	In addition, the manufacturer provides the documentation in three separate sections: pre-sale, user and service information as specified in 13.2, 13.3 and 13.4. These may be provided as separate printed documents or in other forms of media to meet the needs of individual occupants or their assistants.		P
	For the requirements in 13.2 and 13.3, unless otherwise specified, all linear dimensions shall be expressed in millimetres and all masses were expressed in kilograms.		P
13.2	Pre-sale information		P
	In addition to the requirements of 13.1, pre-sale information shall include the following:	See User manual, document No. IFH-PS-RD-YFLB-01-01 Version No.V1.0	P
	a) information on how to obtain the user information in a format appropriate for use by visually impaired people;	This device is not intended to be used by visually impaired people.	N/A
	b) a description of the intended occupant of the wheelchair, including the occupant's mass and any specific requirements for the occupant's functional capability, visual ability and cognitive ability suitable for operating the wheelchair safely in its intended environment;	See "safety precautions" in the manual	P



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Clause	Requirement + Test	Result – Remark	Verdict
	c) the intended operator (occupant, assistant or both);	See "safety precautions" in the manual	P
	d) a description of the intended use and the intended environment;	See "safety precautions" in the manual	P
	e) the type class of the wheelchair: Class A, Class B or Class C;	See "safety precautions" in the manual	P
	f) the overall dimensions (width, length and height) of the wheelchair and its mass when it is ready for use and, if applicable, when it is folded or dismantled;	See "product size overview" in the manual.	P
	g) if the overall dimensions of the wheelchair when it is ready for use exceed the values recommended in A.1.1, a clear statement that the wheelchair is larger than the recommended dimensions;		N/A
	h) the minimum width of corridor in which the wheelchair can be turned to face the opposite direction;	Section "Product basic parameter" in the manual	P
	i) the rated slope, expressed in degrees;	Section "Product basic parameter" in the manual	P
	j) the standard options that are available for the wheelchair;	See "safety precautions" in the manual	P
	k) the type(s) of tyres that can be used on the wheelchair;	Section "Product basic parameter" in the manual	P
	l) operator adjustments;	Section "Product basic parameter" in the manual	P
	m) if the wheelchair can be dismantled or has any removable parts, the mass of the heaviest part;	Section "Portable" in the brochure.	P
	n) information concerning whether the removal of parts or accessories intended by the manufacturer to be removed without the use of tools will have adverse or beneficial effects on the wheelchair;	No detachable parts	N/A
	o) information on whether or not the wheelchair is intended to be used as a seat in a motor vehicle, and whether and how this depends on the standard options referred to in j);	No detachable parts	N/A
	p) information on whether the unoccupied wheelchair is suitable for land and/or air transport;	See "operating instructions" in the manual	P
	q) the theoretical continuous driving distance range, expressed in kilometres, that the wheelchair can travel under its own power on the horizontal when tested in accordance with ISO 7176-4:2008, with the addition of a note explaining that the distance will be reduced if the wheelchair is used frequently on slopes, rough ground or to climb kerbs, etc.;	See "safety precautions" in the manual	P



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	This additional requirement may be reduced to some degree if an accurate charge level indicator is fitted.		P
	r) the maximum height of kerb which the wheelchair can descend safely;	See "safety precautions" in the manual	P
	s) if a programmable controller is fitted, information on the method of programming, the competency required to carry out the programming and the effects it can have on driving performance.	See "operating instructions" in the manual	P
13.3	User information		P
	User information shall be provided by the manufacturer with each wheelchair. Further copies shall also be available for any subsequent user of the wheelchair. User information shall contain all pre-sale information and the following:	See User manual, document No. IFH-PS-RD-YFLB-01-01 Version No.V1.0	P
	a) the unique identification number of the wheelchair or information on the location of the unique identification number on the wheelchair;	See wheelchair label	P
	b) any adjustment or settings required before the wheelchair can be used and warnings of how adjustments or settings affect stability;	See "operating instructions" in the manual	P
	c) where applicable, information on any adjustments that can be made and the competency required to carry out these adjustments;	See "operating instructions" in the manual	P
	d) instructions on operation of all controls, including brakes;	See "operating instructions" in the manual	P
	e) instructions on how to engage and disengage the drive system;	See "operating instructions" in the manual	P
	f) the wheelchair manufacturer's recommended tyre pressure(s), expressed in kPa, bar or PSI;	No such tyre used.	N/A
	g) instructions for dealing with tyre punctures, where pneumatic tyres are fitted;	No such tyre used.	N/A
	h) the battery type and nominal voltage;	See "Battery charging" in the manual	P
	i) instructions for battery maintenance;	See "Battery charging" in the manual	P
	j) instructions for operating the battery charger, including warnings regarding any potential safety hazards (e.g. a possibility of gas accumulating in the charging area, use of the wrong type of battery charger);	See "Battery charging" in the manual	P
	k) if required by the risk analysis, instructions for fitting an additional emergency stop device where the intended occupant has an impairment which could restrict their ability to operate one;	See "operating instructions" in the manual	P



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	l) instructions on whether and how the wheelchair can be folded to assist in storage or transport;	See "About repair, maintenance and storage" in the manual	P
	m) instructions on dismantling and re-assembly of the wheelchair or any removable parts;	No detachable parts	N/A
	n) instructions regarding transport of the wheelchair when it is unoccupied (e.g. in a car or aeroplane);	No such intended use.	N/A
	o) the masses of parts of the wheelchair that are expected to be handled during dismantling, reassembly, or carrying;	No detachable parts	N/A
	p) the positions of points where the component parts can be gripped for safe moving and handling and/or a method for handling during dismantling, assembly or carrying;	No detachable parts	N/A
	q) if the manufacturer specifies that the wheelchair is intended for use as a seat in a motor vehicle, the method of attaching wheelchair tiedown and occupant restraints, and recommendations about suitable tiedown and restraint systems;	See "operating instructions" in the manual	P
	r) if the manufacturer specifies that the wheelchair is not intended for use in the motor vehicle, a warning to that effect, together with the symbol shown in Figure 7;	See "operating instructions" in the manual	P
	s) instructions on how to obtain and fit the optional anterior pelvic support (see 9.4) if it is not supplied with the wheelchair;	Supplied with the wheelchair.	N/A
	t) the positions of points intended to carry additional loads;	See " Storage Compartments " in the manual.	P
	u) instructions for preparing the wheelchair for long-term storage (e.g. longer than four months) and for preparing it for use afterward;	See "About repair, maintenance and storage" in the manual	P
	v) a warning that the wheelchair might disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems of shops, automatic doors, etc.);	See "electromagnetic compatibility" in the manual	P
	w) a warning that the driving performance of the wheelchair can be influenced by electromagnetic fields (e.g. those emitted by portable telephones, electricity generators or high power sources);	See "electromagnetic compatibility" in the manual	P
	x) a warning that the stopping distance on slopes can be significantly greater than on level ground;	See "safety precautions" in the manual	P
	y) a warning that surface temperatures can increase when exposed to external sources of heat (e.g. sunlight);	See "operating instructions" in the manual	P
	z) a warning for trapping hazards (e.g. pinch points);	See "safety precautions" in the manual	P



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	aa) a warning if driving characteristics can be adjusted outside the limits specified in Table 1 and Table 2;	Can not be adjusted.	N/A
	bb) a warning if the adjustments of seating or wheel positions can be set outside safe limits;	Can not be adjusted.	N/A
	cc) if the overall width or overall length of the wheelchair when it is ready for use exceed the applicable values recommended in A.1.1, a warning concerning access to emergency escape routes;	No exceed.	N/A
	dd) the level of resistance to ignition of materials and assemblies;	Seat cushion and back cushion UL976	P
	ee) information on the recycling of used batteries and of the wheelchair;	See "Battery charging" in the manual	P
	ff) if the characteristics of the wheelchair (including occupant as applicable) exceed the limits specified in Annex M of the Technical Specification for Interoperability relating to Accessibility for Persons with Reduced Mobility (PRM-TSI), a statement to that effect (Annex D);	See "operating instructions" in the manual	P
	gg) information on how to find out about product safety notices and product recalls, for example by ensuring the supplier has up-to-date contact information;	See "after-sale service" in the manual	P
	hh) the expected service life of the wheelchair;	See "storage" in the manual	P
	ii) the name and address of the manufacturer;	See end page of the manual	P
	jj) the name and address of the authorised representative, where the manufacturer does not have a registered place of business in the European Union.	See "after-sale service" in the manual	P
13.4	Service information		P
	The service information shall contain all the pre-sale information, user information and instructions necessary for the maintenance, adjustment and repair of the wheelchair and for the replacement of parts.	See User manual, document No. IFH-PS-RD-YFLB-01-01 Version No.V1.0	P
13.5	Labels		P
	In addition to the requirements of 13.1, the manufacturer shall apply permanent labelling for the following:		P
	a) devices for disengagement of the drive system, showing engaged and disengaged positions, including a warning that the drive system should be re-engaged before an occupant is left unattended or attempts to operate the wheelchair;	See attachment 1.	P



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	b) for wheelchairs where the intended use includes use as a seat in a motor vehicle, the position of attachment points for wheelchair tie-down and occupant restraint systems (WTORS);	Not use as a seat in a motor vehicle.	N/A
	c) for wheelchairs not intended to be used as a seat in a motor vehicle, a warning to that effect, including the symbol shown in Figure 7 with a diameter not less than 15 mm, in the same location as the labelling required by ISO 7176-15:1996;	Figure 7 used.	P
	d) for battery chargers that are not on-board chargers, information and connection details specified in Clause 9 of ISO 7176-14:1997;	Marked.	P
	e) for Class A wheelchairs not intended for use outdoors, a warning to that effect.	Class B	N/A



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Attachment- EN 12182: 2012 Assistive products for persons with disability - General requirements and test methods			
Clause	Requirement + Test	Result – Remark	Verdict
4.2	Intended performance and technical documentation		P
	a) An assistive product had sufficient strength and durability to sustain all loads expected during its intended use.		P
	This was confirmed by using, as appropriate, references to relevant clinical and scientific literature in addition to requirements in this standard, strength and/or durability calculations, appropriate test standards and their test results.	Relevant clinical and scientific literature is not evaluated in this report. Strength and fatigue tests performed according to ISO 7176-8.	P
	b) The intended performance including, if appropriate, strength, durability and tipping stability of an assistive product was described in technical documentation which sets out its functional characteristics, its application(s) and conditions of use.	Information provided in User Manual, Doc#: IFH-PS-RD-YFLB-01-01, Version No. V1.0	P
	c) The technical documentation included, if appropriate, references to relevant clinical and scientific literature, any strength and/or life calculations, conformity with appropriate test standards and their test results.	Relevant clinical and scientific literature is not evaluated in this report. Strength and fatigue tests performed according to ISO 7176-8.	P
4.5	Fasteners		P
	It is intended that an assistive product was dismantled for storage or transportation, the fasteners which are loosened or removed to allow this dismantling was not single use fasteners.	No such single use fasteners.	P
9	Overflow, spillage, leakage, and ingress of liquids		P
9.1	Overflow		N/A
9.1.1	Requirements		N/A
	An assistive product incorporates a reservoir or liquid storage chamber that was overfilled or was overflowed in the manufacturer's intended use, liquid overflowing from the reservoir or chamber did not wet electrical insulation and live parts which were liable to be adversely affected by such a liquid, nor were a safety hazard is created.	No reservoir or liquid storage chamber used.	N/A
	Unless restricted by a marking or by the instructions for use, no safety hazards developed if assistive products are tilted through an angle that is 15° greater than the maximum inclination that occurred during intended use.		N/A
9.2	Spillage		N/A



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Clause	Requirement + Test	Result – Remark	Verdict
9.2.1	Requirements		N/A
	Assistive products requiring the use of liquids for the manufacturer's intended use was so constructed that spillage did not wet parts which caused a safety hazard in the product.	No liquids used.	N/A
9.3	Leakage		N/A
	Assistive products were so constructed that liquid which escaped in single fault condition did not cause a safety hazard.	No liquids used.	N/A
9.4	Ingress of liquids		P
9.4.1	Requirements		P
	Liquid unintentionally came into an enclosure there was a way for the liquid to get out of the enclosure, or the liquid did not cause any harm.	Wheelchair IPX4 Complied.	P
	The hazards that caused by the ingress of liquids to non-electrically powered assistive products were assessed in the risk analysis (see 4.1).		P
12	Safety of moving parts		N/A
12.1	Squeezing		N/A
	Unless the intended purpose of an assistive product, or part of an assistive product, was to grip, cut, squeeze etc., or if the intended use was not achieved without a hazard such as risk of squeezing (e.g. the elbow or knee flexion of a limb prosthesis):	The intended use was not achieved without a hazard	N/A
	a) any moving parts that constituted a safety hazard was provided with guards that was only removed by the use of a tool; or		N/A
	b) the gap between exposed parts of an assistive product that moved relative to each other was maintained throughout the range of movement at less than the minimum value or more than the maximum value set out in Table 2: or		N/A
	c) cords (ropes), chains and drive belts were used, they were either confined so that they did not run off or jump out of their guiding devices, or a safety hazard was prevented by other means.	Drive belts were used	P
	Mechanical means applied for this purpose were removable only by the use of a tool; or		N/A
	d) the assistive product incorporated a control device which initiated the movement when it was operated and stops the movement when it was released (e.g. a spring loaded control device that returns to the stop position when released); or		N/A



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Clause	Requirement + Test	Result – Remark	Verdict
	e) the assistive product incorporated a means for detecting that a person was in danger of being trapped and automatically activating a means of preventing injury (e.g. by stopping the movement).		N/A
	For moving parts that caused squeezing, manufacturers took into consideration what part/parts of the bodies that were at risk.		N/A
	The user/user group had to be specified, so that correct safety distances were applied.		N/A
12.2	Mechanical wear		P
	Parts subject to mechanical wear likely to result in a safety hazard was accessible for inspection.	Considered	P
12.3	Emergency stopping functions		N/A
	There is a risk for the user to be squeezed or a single fault appearing that might create a safety hazard there was an emergency stop as specified in EN ISO 13850 together with the following requirements:	No such emergency stopping device.	N/A
	-The assistive product was designed to prevent accidental damage or stopping movements.		N/A
	-The user was able to reach the emergency stop easily, and stop the dangerous situation within one action.		N/A
	-The stopping device maintained the equipment in a safe position, but not interfere with other critical functions.		N/A
	- The emergency stopping device maintained the assistive product in a stopped position until it was released by a designated procedure		N/A
	-The designated procedure for the release of the emergency stop required two independent actions.		N/A
	-A safe stopping distance was considered in the risk analyses.		N/A
13	Prevention of traps for parts of the human body		P
13.1	Holes and clearances		P
	Holes in, and clearances between stationary parts that are accessible to the user and/or assistant during the intended use of an assistive product were as specified in Table 3.		P



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	The intended purpose of an assistive product was not met without a hazard caused by the size of holes and the clearance between stationary parts, a warning and instructions on how to operate the assistive product safely was provided in the instructions for use.		P
	For stationary parts that caused a trap, manufacturers took in consideration what part/parts of the body that was at risk.	Risk Management Report, Doc#: IFH-QR-RD-02, version V2.0	P
	The user/user group had to be specified, so that correct safety distances were applied.		P
	The design of parts that confined a hole or clearance took into consideration the forces that were applied in normal use.	No such parts.	N/A
	On holes with the shape of a keyhole or V-shaped openings the lower limit did not apply. When inspecting the assistive product for traps for body parts any flexibility/elasticity of adjacent parts were taken into account.	No V-shaped openings.	N/A
13.2	V-shaped openings		N/A
	The risk of entrapment in V-shaped openings was assessed by the manufacturer.	No V-shaped openings.	N/A
14	Folding and adjusting mechanisms		P
14.1	General		P
	Folding and adjusting mechanisms caused a hazard if parts of the body entered a gap between parts and be trapped when the gap was closed.		P
	An assistive product incorporates folding and/or adjusting mechanisms it conformed to 14.2 and 14.3.		P
14.2	Locking mechanisms		P
	The mechanisms were capable of being securely locked when the assistive product is in any fixed working configuration.		P
	It was also capable of being securely locked when folded if it constituted a risk for the user or assistant.		P
	The product folded in a safe manner.		P
14.3	Guards		P
	a) the assistive product incorporated means to protect the user from trap and/or squeeze hazards; or		P



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	b) the gap between exposed parts of an assistive product that moved relative to each other maintained throughout the range of movement at less than the minimum value or more than the maximum value set out in Table 2; or		P
	c) the intended purpose of an assistive product was not met without a hazard such as squeezing, a warning and instructions on how to operate the assistive product safely was provided in the instructions for use.		P
	The design of a guard took into consideration the forces that were applied in normal use.		P
18	Surfaces, corners, edges and protruding parts		P
	If not required for the intended function of an assistive product, all accessible edges, corners and surfaces were smooth and free from burrs and sharp edges.		P
	If not required for the intended function, assistive products did not have protruding parts.		P
	Where possible, necessary protruding parts had protection to prevent injury and/or damage.	No such protruding parts.	N/A

END OF EN 12184:2014 TEST REPORT, CONTINUOUS WITH ATTACHMENT 1 ISO 7176 SERIES TEST DATA SHEET.



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