TÜV Rheinland Nederland B.V.



Test report

Test report relating to electrically powered wheelchairs and scooters according to the European wheelchair standard EN 12184, concerning the scooter product name: Movinglife™, type: ATTO, manufactured by Moving Life Ltd.

Report number:

89207808-2

Date

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Client

Moving Life Ltd

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Project name

Testing ATTO in conformity with EN 12184

Number of pages

40



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1 Introduction

1.1 Purpose

The tests have been performed in order to establish whether or not the product meets the requirements of the European Standard EN 12184 $^{[1]}$.

1.2 Description of the sample(s)

Manufacturer	Moving Life Ltd.	
Name product	ATTO Product number AT01	
Version	1.0	
Max. user weight	tested with 100 kg	

Maximum speed Class A Propulsion Code according to ISO 9999 Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest A 12 21 24 electric 4.1.9 scooter 4.1.9 scooter non-detachable, unit), rigid uphols full length armres full length armres not applicable, fo	nless DC Motor Driver*
Maximum speed Class A Propulsion Code according to ISO 9999 Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest A Front wheel drive 4.1.9 scooter 12 21 24 electric 4.1.9 scooter Inon-detachable, unit), rigid uphols non detachable, Indicated the unit of the	
Propulsion front wheel drive Code according to ISO 9999 Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest front wheel drive full electric full unit), rigid uphols full length armres full length armres	
Code according to ISO 9999 Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest Method of propulsion/steering 4.1.9 scooter non-detachable, unit), rigid uphols non detachable, I unit), rigis uphols full length armres not applicable, fo	
Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest 4.1.9 scooter non-detachable, unit), rigid uphols non detachable, In unit), rigis uphols full length armres not applicable, for not applicable	
Method of propulsion/steering ISO 7176-26 Configuration of seat Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest 4.1.9 scooter non-detachable, unit), rigid uphols non detachable, I unit), rigis uphols full length armres not applicable, fo	motor-driven, manual steering
Configuration of seat Configuration of back rest Configuration of back rest Configuration of arm rest Configuration of leg rest Type of head rest non-detachable, lunit), rigid uphols non detachable, lunit), rigis uphols full length armres not applicable, fo	
unit), rigid uphols Configuration of back rest non detachable, I unit), rigis uphols Configuration of arm rest full length armres Configuration of leg rest not applicable, fo Type of head rest not applicable	
Configuration of back rest unit), rigid uphols non detachable, I unit), rigis uphols Configuration of arm rest full length armres Configuration of leg rest not applicable, fo Type of head rest not applicable	norizontally adjustable (as whole seat
Configuration of back rest non detachable, I unit), rigis uphols Configuration of arm rest full length armres Configuration of leg rest not applicable, fo Type of head rest not applicable	tered cushion, plastic,
Unit), rigis uphols Configuration of arm rest Configuration of leg rest Type of head rest unit), rigis uphols full length armres not applicable, fo not applicable	norizontaly adjustable (as whole seat
Configuration of leg rest not applicable, fo Type of head rest not applicable	tered, plastic
Type of head rest not applicable	t, folded
	otplate
Back rest angle adjustment (α) not adjustable	
Seat plane angle adjustment (φ) or not adjustable	
body support system angle	
adjustment (Δφ)	
Leg to seat surface angle not applicable	
adjustment (ß)	
Arm rest angle adjustment (δ) not adjustable	
Foot rest to leg angle adjustment (γ) not applicable	
Seat surface height adjustment by user/attendant	
	7176-22)
	7176-22)
	7176-22)
	7176-22)
	7176-22)
Trademark/type of front tyre MovingLife / 203 >	
Trademark/type of rear tyre MovingLife / 228 >	, 57
Trademark/type of battery BT25-IE, Li-lon 48	
Trademark/type of battery charger SPBC4802A, 54.6	3V, 5.2 Ah*

^{*} names and pictures are later provided by Moving Life





Picture 1: product label.



Picture 2: Battery label*



Picture 3: Charger label*

1.3 Sampling procedure

TÜV Rheinland B.V., acting as Test Laboratory, has had no influence on the selection of the sample. The first samples were test-worthy and were received on August 17, 2015 by the manufacturer.

1.4 Application

The request for testing was submitted by the manufacturer on March 26, 2015, order number: 00379.

1.5 Method of testing

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

1.6 Used test equipment

<u>Device</u>	Manufacturer and Type	
Amp-hour meter	BCM - VD 00562-bcm 98	
Digital multi-meter	Tektronix - DMM916	
Double foot dummy	Homemade	
Dummy seat 100 kg	Homemade	
Dummy seat 75 kg	Homemade	
Sound meter	Flus - ET -958	
Weight 25 kg	Inogon	
ISO drummer	Homemade	
Handheld tachometer	Teclock - Type L	
Angle plate (1)	Homemade	
Angle plate (2)	Homemade	

^{*} Later provided by the manufacturer.



High-pressure pump	Airstrike - BFP-01
IEC 60601-1 test finger	Homemade
ISO dummy + feet, 100 kg	Homemade
ISO dummy + feet, 75 kg	Homemade
ISO dummy + feet, life test	Homemade
Calibration weight 25 kg	Homemade
Tipping blocks	Homemade
Children rlg-dummy	Homemade
Small slope	Vink Lisse - 411
Dynamometer push/pull impact	AE - MW520
Laptop PC	Dell - Lenovo T400
Photometer	KMT - Pocketlux 2
Hygrometer	Novasina - MS1
Measuring wheel	Homemade
Pendulum 10 kg	Homemade
Pendulum 25 kg	Homemade
Power supply	Delta Elektronica - SM 35 - 45
Power supply	Delta Elektronica - SM 35 - 45
RLG-measuring dummy	Homemade
Measuring tape 5m	Stanley - 33-684
Sliding rule wheelchair lab.	Mitutoyo
Steel ruler 500 mm	Mitutoyo - 50cm
Static impact set-up	Homemade
Exit slope	Homemade
Floor plate, fall test	Homemade
Footrest height setting-up block 50	Homemade
Weighing platform	Homemade
Set square	Homemade
Friction block	Homemade

1.7 Put out to contract

The first climatic test for electric wheelchair concerning the ISO 7176-9:2009 has been carried out under full responsibility of TÜV Rheinland Nederland B.V. by Thales Nederland B.V. located in Hengelo The Netherlands.

The second climatic test for electric wheelchair concerning the ISO 7176-9:2009 has been carried out by QualiTech Compliance Engineering Environmental & Mechanical Lab. located in Petach Tikva Israel. This report under accreditation was supplied by the manufacturer.

1.8 Privacy statement

Due to privacy reasons, the names of involved personnel that executed the tests, are not disclosed in the report. However, this information is available on internal work sheets, test forms etc. in the project file.



1.9 Notifications, accreditations, designations

TÜV Rheinland Nederland B.V. has been accredited by the Dutch Accreditation Council (RvA) as ISO 17025 Test Laboratory (nr. L 484) and ISO 17065 Certification Body (nr. C078).

1.10 Report revision

The difference between the first report 89207808 dated November 20, 2015 and the second report 89207808-2 dated December 7, 2015 are some textual adjustments.



2 Test summary

Test results after performing all applicable tests according to the European Standard EN 12184 [1].

Par.	Headline	Assessment (pass/Fail/N.a.)
6	General requirements	pass
8	Wheelchair performance	pass
9	Component properties	pass
10	Propulsion and braking systems	pass
11	Operations	pass
12	Electrical systems	pass
13	Information supplied by the manufacturer	pass

For detailed test results and photo's is referred to Appendix A and B.



3 Remarks on the test results

Chapter	Description of the	Remark
nr. *	requirement	
8.2	Static, impact and fatigue strength	8.4 and 8.8 (ISO 7176-8) The first supplied ATTO had armrests but the manufacturer excluded this from the options. The second ATTO was without arm rests.
	Back rest impact	9.3 (ISO 7176-8) The height of the backrest is < 320 mm making this requirement expire.
10.2.1 (sub b)	The wheelchair shall have a running brake which, when operated after the wheelchair has been put into freewheel mode, shall bring the wheelchair to a stop.	The ATTO did not have a running brake while the freewheel mode is activated. However the ATTO is a class A scooter and at the front wheel/freewheel mode is placed a sticker.
10.2.1 (sub g)	Parking brakes shall be operable when the wheelchair is in freewheel mode.	Equal to chapter 10.2.1 (sub B) above.
10.3	Freewheel device: Be within the reach space shown in Figure 1, if the wheelchair is intended to be operated by the occupant.	Equal to chapter 10.2.1 (sub B) above.

^{*)} This chapter number corresponds to chapter in "test overview of electrically powered wheelchair in accordance with ISO 7176-8", see Annex C.



4 Conclusion

The electrically powered scooter, **Movinglife™**, type: **ATTO**, version 1.0 **meets** the requirements as stated in the European Standard EN 12184 ^[1] for class **A**. The test results exclusively relate to the inspected object.

The conclusion is that the **product shows** compliance with these requirements.



5 References

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



6 Signature

Author	Signature
Mr. H. Fokkenrood	
	A De la Company
Expert Medical products	* *
Approved by	Signature
Mr. R. P. van Egmond	
	is Aleresen.
Ad interim Business Field Manager products	



Appendix A Photo sheet

Photograph of the tested sample, product name: Movinglife™, type: ATTO version 1.0.



Picture 4: Closed front side



Picture 5: Closed back side





Picture 6: driving front side



Picture 7: driving right side



Appendix B Detailed test results

Sample nr:	and the second s	ATTO, version 1.0		pass/ fai
Req. nr.	Description of the requirement	Required	Value of the test	/n.a
6	General requirements		_	
	Must conform to the requirements of EN 12182			
	for all under-mentioned sub-requirements			
6 (sub1)	Intended performance and technical		available	
	documentation (EN 12182, 4.2)			
6	Confirmation of sufficient strength and durability	Must be confirmed.	available	pass
6	Intended performance described in technical	Must be described, if appropriate	available	pass
	documentation, if appropriate			
6	References described in technical	References available, if appropriate	not appropriate	n.a.
	documentation, if appropriate			
6 (sub 2)	Aids that can be dismantled	If intended that it can be dismantled: no	cannot cause hazard	pass
	(EN 12182, 4.4)	hazard caused by incorrect re-assembling		Pucc
		possible		
6 (sub 3)	Single use fasteners	If intended that it can be dismantled: no	no single use fasteners	pass
	(EN 12182, 4.5)	single use fasteners used	no omgre add radionero	pass
6 (sub 4)	Biocompatibility and toxicity (EN 12182, 5.3) N	Materials which come into contact with the		
	human body shall be assessed for biocompatibilit			
	guidance in EN ISO 10993-1 and shall fulfil the fo			
6	The assessment shall take into account the intended use and contact by those involved in user care or transportation and storage of the product.	Must be assessed.	available	pass
6	The assistive products shall be designed and manufactured in such a way as to reduce to a minimum the risks posed by substances leaking from the assistive product	Must be assessed.	available	pass
6 (sub 5)	Contaminants and residues (EN 12182, require	ement 5.4)		
	Substances which may leak from an aid (e.g. oil,	grease and acid) shall either:		
3	be assessed for biocompatibility conform	Result of the assessment must be available	not applicable	n.a.
	guidance in EN ISO 10993-1	OR		11.0.
	OR	protection available		
3	provided with protection against hazardous	Secretary designed and the secretary designed and the secretary designed as the secretary d	not applicable	
	substance(s).			
6 (sub 6)	Infection and microbiological contamination (E	EN 12182, 5.5)		
3	models on St. Con. is total love.	If intended to be cleaned: methods and	cleaning: available	
	52	materials in product-info.	clearing, available	pass
		If intended to be disinfect-ted: methods and	disinfection:	
		materials in product-info.	g promoved where a model of the state of the	n.a.
		If it is intended to be cleaned by automatic	not applicable	
		washing machine, procedure must be	not aunite - Lit-	n.a.
	# # # 90°#	described in user manual	not applicable	
(sub 7)	Overflow, spillage, leakage	described iii user manual		
(Sub 1)	2 20	O 1		
'	Section Control of the Control of th	Overflow may not cause safety hazard(s).		n.a.
	(EN 12182, 9.1)			



Sample nr: Req. nr.	MT15.55780.01 Results for type: Description of the requirement	ATTO, version 1.0	Value of the American	pass/ fail
6	Spillage	Required	Value of the test	/n.a
0	(EN 12182, 9.2)	Spillage may not cause safety hazard(s).		n.a.
6	Leakage	Leakage may not cause safety hazard(s).	assessment available	pass
	(EN 12182, 9.3)	50 D		
6	Ingress of liquids	Ingress of liquids may not cause safety	assessment available	pass
	(EN 12182, 9.4)	hazard(s).		
6 (sub 8)	Safety of moving parts			
6	Moving parts that can cause an unintended			
	safety hazard shall either:			
	(EN 12182, 12.1)			
6	be provided with guards (removable with the use		sufficient protection	pass
		Removable with tools.	not applicable	
	OR	OR		pass
	W 25 W W	Finger traps: ≤ 8 mm or ≥ 25 mm	< 8 mm or > 25 mm	
	requirements for adults:	Foot traps: ≤ 35 mm or ≥ 120 mm	- mm	
		Head traps: ≤ 120 mm or ≥ 300 mm	- mm	
		Genitalia traps: ≤ 8 mm or ≥ 75 mm	- mm	
	Unicesia de mero de	OR		
		May not come out of there guiding device(s).	not applicable	n.a.
		Used guards must be removable with tools.		
		OR		
		Movement stops when device is released.		
		OR		
	and the second s	Must detect safety hazard(s).	not applicable	pass
		Stops movement automatically		
	OR			
	have a detecting device which stops movement		not applicable	n.a.
1	automatically and immediately when a safety			
	hazard occurs			
3	Parts subject to mechanical wear likely to result	Must be accessible	mat anniliaatita	
		(for inspection).	not applicable	n.a.
	(EN 12182, 12.2)	nor inspection).		
	20 Y 20 Ref.	The assistive product shall be designed to	available	102172100101
		prevent accidental damage or stopping	available	pass
- 1		movements.		
		The user shall be able to reach the	available	n===
1.	St. I	emergency stop easily, and stop the	avallable	pass
	V21 15 51	dangerous situation within one action.		
	00.400501	PERSONAL PROPERTY AND ADMINISTRATION OF THE CO	available	nace
1	- 125 AT AT	equipment in a safe position, but not interfere	w and big	pass
		vith other critical		
		unctions.		



Sample nr:	MT15.55780.01 Results for type	e: ATTO, version 1.0		pass/ fai
Req. nr.	Description of the requirement	Required	Value of the test	/n.a
		The emergency stopping device shall	available	pass
		maintain the assistive product in a stopped		pass
		position until it is		
		released by a designated procedure.		
		The designated procedure for the release of	available	pass
		the emergency stop shall require two		1
		independent actions.		
		A safe stopping distance shall be considered	available	pass
		in the risk analyses.		
6 (sub 9)	Prevention of traps for parts of human body			
	(EN 12182, 13)			
	Holes in and clearances between stationary parts	s (if accessible by user or attendant) shall		ii:
	either:			
6	V-shaped openings			
	The risk of entrapment in V-shaped openings sha	all be assessed by the manufacturer. Particular		n.a.
	guidance can be found in B.13.2.			
6	have a safe distance which complies with the	Finger traps: ≤ 8 mm or ≥ 25 mm	- mm	n.a.
	applicable requirements for adults:	Foot traps: ≤ 35 mm or ≥ 100 mm	- mm	
		Head traps: ≤ 120 mm or ≥ 250 mm	- mm	
		Genitalia traps: ≤ 8 mm or ≥ 75 mm	- mm	
5	must have, if a hazardous situation can occur, a	Must have warnings	not applicable	n.a.
	warning and instructions on safe use of the aid	Must have instructions		
	included in the manufacturer's instructions.			
	Folding and adjustment mechanisms			
10)				
3	The mechanisms shall be capable of being	Must be securely locked	always securely locked	pass
	securely locked when the aid is in any fixed			
1	working configuration.			
	(EN 12182, 14.2)			
	Folding and adjustment mechanisms shall either:			
	Be provided with means to protect the user from	Must have guards.	not applicable	pass
	trap and or squeeze hazards			
1	OR	OR		
	have gaps which comply with the applicable	Finger traps: ≤ 8 mm or ≥ 25 mm	- mm	n.a.
	requirements for adults:	Foot traps: ≤ 35 mm or ≥ 120 mm	- mm	
		Head traps ≤ 120 mm or ≥ 300 mm	- mm	
		Genitalia traps: ≤ 8 mm or ≥ 75 mm.	- mm	
	OB			
		OR		
	OR		h	
	have a warning and instructions on how to		warnings included	
	have a warning and instructions on how to operate the aid safely in the manufacturer's		warnings included instructions included	
	have a warning and instructions on how to			



Sample nr:	MT15.55780.01 Results for type:	ATTO, version 1.0		pass/ fai
Req. nr.	Description of the requirement	Required	Value of the test	/n.a
	If not required for the intended function of an aid,	Must be smooth.	all parts are smooth	pass
	all accessible edges, corners and surfaces shall	Free from burrs.	not applicable	
	be smooth and free from burrs and sharp edges	Free from sharp edges.	no sharp edges	
	If not required for the intended function, aids	Free from unprotected projections.	no projections	pass
	shall not have (unprotected) projections			
6 (sub 12)	Clinical evaluation			
	(EN 12182, 4.3)			
	A clinical evaluation shall be done for all	shall conform to the requirements of EN ISO	sufficient protection	pass
	assistive products.	14155-1 and EN ISO 14155-2		
	If, as part of the product conformity assessment,			
	the clinical evaluation requires a clinical			
	investigation, the			
	clinical investigation.			
	A clinical evaluation shall always be done before			
5 62 3	performing a clinical investigation.			
6 (sub 13)	Ergonomic principles (EN 12182, 23)	The distance between any handle requiring	< 35 mm	pass
		an operating force of more	< 10 N	
		than 10 N and any construction part of the		
		assistive product shall not be less than 35		
	into account the special needs of the person with	mm;		
	a disability for whom the assistive product is	The distance between any upper surface of a	- mm	n.a.
		pedal (in its operating position) and any other		
	5 8 8	part of the assistive product shall have a		
	whom it is primarily intended for, but also by an	vertical toe clearance of not less than 75 mm;		
	assisting person.	The diameter of any operating handles		
	And the state of t	and/or knobs requiring an operating force of	. 19 mm and < 43 mm	pass
	* 5 5	more than 10 N	≥ 10 N	
	**	shall be between19 mm and 43 mm;		
		For assistive products operated from a		
	Access to the control of the control	standing position, pedals shall be placed not	- mm	n.a.
		more than		
		300 mm above the surface of the floor;		
		For assistive products operated from a		
		standing position, hand operated controls	- mm	n.a.
		shall be placed at a		
		height of 800 mm to 1 200 mm above the		
		surface of the floor;		-
		Handles for pushing and/or pulling shall be		
		placed at a minimum height of 900 mm.		n.a.
	Preparation for testing			
~ 0'	General			
	Settings according ISO 7176-22:2000			pass
	Wheelchair performance			pass



8.1.1	General						
	The loaded wheel	The loaded wheelchair shall meet the driving performance requirements specified in Table1					pass
			wheelchair as spe				1
	Degrees and direction	Braking method	Maximum speed	Speed before braking	Braking distance	1	
	۰		Km/h	Km/h	mm	-	
	0° backwards	Release	5.04	3.88		pass	
	0° backwards	Stop	4.93	3.85	600	pass	
	0° forwards	Release	6.89	6.52	1103	pass	
	0° forwards	Stop	6.88	6.48	1096	pass	
	6° backwards	Dalassa	5.40		40004070		
	6° backwards	Release	5.12	4.11	1244	pass	
	6° forwards	Stop Release	5.12	4.17	1269	pass	
	6° forwards	Stop	7.23	6.75	2299	pass	
	0 loiwards	Зюр	7.22	6.74	2296	pass	
3.1.2.1	The wheelchair sh	all be capable of	climbing at a speed	not less than 2 km/h	: -The applicable		pass
	l -			Table1, or -The rate			puod
	the manufacturer,						
				achieves or exceeds	a speed of 2 km/h	At a slope of 6°	
	after travelling 5 m				a opeca of 2 minn	/ K d diope of o	
1.1.3	Ground unevennes						1
3.1.3.2	The wheelchair sha	all be capable of o	driving when any of	its wheels is raised t	to a height specified		pass
	in Table 1 for grou	nd unevenness.			373 A	Height = 10 mm	M 622/43
1.1.4	Maximum downhill	speed.					
.1.4.1	The wheelchair shall not exceed 125% of its maximum speed on the horizontal, when driving					Slope of 0° = 6.88 m	pass
	down – the applica	Slope of 6° = 7.23 m					
	The rated slope sp	ecified by the mai	nufacturer, whichev	er is greater.		w	
.1.5	Dynamic stability						
.1.5.1	The dynamic respo	onse score of the	wheelchair shall be	2 or 3 as specified in	Table A 1 of ISO	Score at 6°	pass
	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 – The applicable rated slope for the type of wheelchair specified in						pass
	Table1, and – the rated slope specified by the manufacturer.						
					er 8.2 (ISO 7176-2):	Starting forwards = 3	
						Stopping forwards = 3	
					to at the Auto-Auto-Auto-Auto-Auto-Auto-Auto-Auto-	Braking backwards = 3	
			For forward dyr		07	Braking forwards = 3	
		For dyna		ral directions chapter	00 80	10 A TO 10 A T	
.1.6	Obstacle climbing a	and descending					
1.6.1			bing and descending	ng obstacles of the h	eight specified in	AT a height of 18 mm	naac
	1			part of the wheelcha		AT a neight of To min	pass
	wheels or a kerb cli				other than		
			3 3.0000000		up, (ISO 7176-10) :	= 22 mm	
					up, (ISO 7176-10) :		
					up, (ISO 7176-10) :	0.0000000	
					up, (ISO 7176-10) :		



					,
	Char	oter 7.5 test	sequence forwards, (ISO 7176-10)	: N.a.	
	Cha	pter 7.6 des	scending rearwards, (ISO 7176-10)	: = 22 mm	
	Chapter	7.7 manufa	cturer's instructions, (ISO 7176-10)	: N.a.	
017	Chalia atabilita				
8.1.7 8.1.7.1	Static stability		SCHOOL NESS WE WAS THE BROTHES THE THREE		T
0.1.7.1	The wheelchair shall meet or exceed the minimu	ım requirem	nents for static stability specified in		pass
	Table 1 for the type class of the wheelchair.				
	- C-	-1. 100			
	Sta	ability direct	ion		
	Fo	rward	Front who ale laster d	6°	
		iwaiu	Front wheels locked	6°	
	Re	nr.	Front wheels unlocked	6°	
	l ve	ai	Rear wheels locked Rear wheels unlocked	6°	
			Antitip devices a	n.a.	
	Sic	leways	Left	6°	
		icways	1 4 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	6°	
			Right		
	A "least stable" and "most stable" refer to the positioning of the antitip devices				
8.1.8	Maximum speed	on the second	no unitip devices		
8.1.8.1	The maximum speed of the wheelchair when trav				
0.1.0.1	horizontal shall not exceed the maximum speed		pass		
	class of the wheelchair.				
	ender of the micelenan.		Maximum anough basizantalliss	C C lone /b	
			Maximum speed horizontally :	The second secon	
8.1.9	Distance range		Maximum speed reverse :	4.9 KIII/II	
8.1.9.1	The theoretical continuous driving distance range		2000		
	requirement specified in Table 1 for the type clas		pass		
	Ebat= 231 Wh. Lengths test track = 50 m.	231*(50*(20.72))/16.			
	Used energy clockwise = 8 w. Used energy coun	Distance = 14957 m			
	Number of labs = 20.72	Distance - 14957 III			
8.2	Static, impact and fatigue strength				
8.2.1	The wheelchair shall conform to the	Must comr	oly with all requirements:	complies with 100 7470 d	100 (000)
	requirements of ISO 7176-8:1998. With the	wast comp	by with an requirements.	complies with ISO 7176-8	pass
	exception that wheelchairs of class A are not	statio stro	ength tests	meets the requirements	
	required to be tested as specified in ISO 7176-		rength tests	meets the requirements	
	8:1998, 10.5, drop test. (tested with a load of 100		Annual States Control of the Control	meets the requirements	
	kg).	- ratigue te	515		
	Details:				
	8.4, Arm rests: downward	used load	N		
	8.5, Foot rests: downward		1000 11	n.a.	
	8.6, Tipping levers	used load	N 1	pass	
	10 10 10 TO	used load	N	n.a.	
	8.7, Handgrips	used load		n.a.	
	8.8, Arm rests: upward	used load		n.a.	
	8.9, Foot rests: upward	used load		n.a.	
	8.10, Push handles, upward	used load		n.a.	
	9.3, Back rest impact	used: pend	lulum (-°)	n.a.	



	9.4, Handrim impact	used: pendulum (-°)	n.a.	
	9.5, Castors impact	used: pendulum (-°)	n.a.	
	9.6, Foot rests impact	used: pendulum (49°)	pass	
	10.4, Double drum test	200,000 cycles	pass	
	10.5, drop test	6,666 cycles (or 1/30 of cycles of 2-drum	n.a. (class A)	
		test)	(chaot i y	
8.3	Wheelchairs for use as seats in motor vehicles			
	Intended us as seat in a motor vehicle by an	Conform the performance of ISO 7176-	not applicable	n o
	occupant of a mass not less than 22 kg or	19:2008 with the following modifications.	not applicable	n.a.
	greater.	4.1.2, 5.2.1 a, 5.2.2 e.		
8.4	Climatic performance			
	The wheelchair shall conform to the	This requirement includes the one stated in	Tooled by Ought at	
	requirements of ISO 7176-9:2009	ISO 7176-14:2008, 13.1. It is not necessary	Tested by: QualiTech	pass
1	7-17-5 7-17-5 0.2505	to duplicate the test.	Report No.:	
		to duplicate the test.	20151018-1044	
			Date:	
9.1	Foot supports, leg supports and arm supports		28-10-2015	
9.1.1				
9.1.1	Foot supports shall have means for positioning	Have means for positioning the feet.	means available:	pass
9.1.1	the user's feet at the required height.			
9.1.1	Foot supports shall have means for preventing	Have means for preventing the feet.	not applicable:	n.a.
0.4.4	the user's feet from sliding backwards.			
9.1 .1	Incorporate a means to locate it securely in any	Means to fix securely in any operating	means available	pass
(a)	intended operating position	position for:		
9.1	be adjustable in increments not exceeding 25	Adjustment steps not exceeding 25 mm.	in steps of mm	pass
(b)	mm			
9.1	be accessible and operable:	Accessible and operable	accessible and operable	pass
(c)	by the occupant/assistant or both			
	in accordance with the manufacturer's intended	Within the area of reach by	within the users reach	
	use of the wheelchair.	occupant/assistant		
9.1	Be within the reach space shown in Figure 1,			
(d)	and			
9.1	be operable without the use of tools	Operable without the use of tools	without use of tools	
(e)	The ability to make adjustments without the use	approach military the date of tools	Without use of tools	pass
	of tools is not required.			
9.1	Where the wheelchair has separate foot support	which have a gap between them or the		100.00
(f)	possibility of a gap being formed when they are lo			n.a.
. ,	from sliding into the gap shall be provided, or	raded, means to prevent the occupant's feet		
9.1	When the foot supports are tested in accordance	with 0.1.2.2 any gap between the state		
(g)	meet the requirement for safe distances between			n.a.
9.2	Component mass	stationary parts specified in EN 12182.		
9.2			Do 804 3m; 1900 0	
,. <u>L</u>	If the wheelchair is intended to be dismantled for s			pass
	requires moving or handling that has a mass great		Rear half = 16,2 kg	
	handling devices (e.g. handles). The manufacture			
	points where such components can be lifted and o			
	disassembly, lifting, carrying, and assembly to red	fuce risks to the person or persons moving or		
	handling them.			



9.3	Pneumatic tyres			
9.3	Pneumatic tyres (if fitted with pneumatic tyres)	Shall have the same type of valve connections on all tyres. Readily accessible Tires or rims shall be marked with the maximum pressure in kPa or bar or PSI	no pneumatic tyres	n.a.
9.4	Anterior pelvic support			
9.4	Shall have provision for an anterior pelvic to be fitted Shall be available as option	Shall have a provision. Shall available as option	provision available (option)	pass
9.5	And can be used with that provision Resistance to ignition	Shall be used with that provision		
9.5.1	Upholstered composite parts shall be tested as specified in EN1021-2:2006 or ISO 8191-2:1988 (composites of cover and filling, with or without a support base or interliner)	Progressive smouldering ignition and flaming ignition shall not occur	No textile used	n.a.
9.5.2	Foam Materials shall be tested as specified in EN 1021-2:2006 or ISO 8191-2:1988 (foams with form all or parts of a seat, back support, postural-, arm- or lower leg support, with or without an integral skin)	Progressive smouldering ignition and flaming ignition shall not occur	No foam used	n.a.
9.5.3	Other parts shall be tested as specified in EN 1021-2:2006 or ISO 8191-2:1988 (sling seats, sling backs, belts, restraint harnesses, foot supports, and clothing guards the material of each of them)	Progressive smouldering ignition and flaming ignition shall not occur		n.a.
9.5.4	Power and control systems			
9.5.4 (a)	Either of the following options a or b shall apply. The manufacturer shall adopt appropriate means to practicable the risk of a hazardous situation development and control system of the wheelchair. The rin EN ISO 14971:2012 to manage that risk.	oping from the ignition of any part of the		pass
9.5.4 (b)	The power and control system of the wheelchair si 14:2008, 9.7, resistance to ignition. Based on report	Accepted test report from FORMOSA CHEMICALS & FIBRE CORP PLASTICS DIV, number: E162823, dated: 2007-02-26	pass	
10	Propulsion and braking systems			
10.1.1 a	Means for operating brakes shall:			
10.1 sub a1)	100 to 10	Brakes shall be within the users and/or assistants reach.	within the occupants/assi	pass



10.1	be within the reach space shown in Figure 1, if	Brakes shall be within the users reach.	within the occupants read	pass
(sub a2)	the wheelchair is intended to be operated by the			
40.4	occupant;	Le la la desar de la lace		
10.1	be within the reach space shown in Figure 3, if	Brakes shall be within the assistant reach.	within the assistant reach	pass
(sub a3)	the wheelchair is intended to be operated solely			
10.1	by an assistant; have operating forces for engaging and	aisala finana 5 N		
(sub a4)	disengaging as stated in Table 1 when tested in	single finger 5 N	- N)*	pass
(300 04)	accordance with 10.1.2	one hand 13.5 N hand +arm 60 N	- N)*	
	accordance with 10.1.2	foot, push 100 N	< 60 N)*	
		foot, pull 60 N	- N)*	
		loot, pull oo N	- N)*	
10.1	If one of more braking levers are fitted, used on		* if applicable	
(sub b)	bicycles/ and mopeds:			
10.1	for wheelchairs with a maximum occupant mass	Be ≤ 60N	N	n 0
(sub b1)	not greater than 150 kg, the force applied to		130	n.a.
**************************************	each lever to hold the loaded wheelchair statio-			
	nary on the rate slope shall not exceed 60 N;			
10.1	for wheelchairs with a maximum occupant mass	Be ≤ 60N	N	n.a.
(sub b2)	greater than 150 kg, the force applied to each			II.a.
	lever to hold the loaded wheelchair stationary on			
	the rate should not exceed 60 N;			
10.1	the handgrip width of such brake levers when no	Hand grip width shall	N	n.a.
(sub b3)	force is applied, measured 15 mm from the end	≤ 100 mm and should not be greater than 80		II.a.
	of the brake lever, shall not be greater than 100	mm		
	mm and should not be greater than 80 mm (see			
	Figure 4).			
10.1	Means for releasing parking brakes shall be protect	cted against activation caused by accidental		n.a.
(sub c)	contact.	•		
10.2	Braking functions	*		
10.2.1	The wheelchair shall have a running brake which	operates independently of tyre wear and tyre		pass
sub a)	inflation pressure and which does not exceed the		Speed = 6.87 km	M. 525050
	Table 2 when tested in accordance with 10.2.2.1.		Braking dist. = 1.019 m	
	Braking distance at a speed of 6.87 km = 1096 m.			
	The wheelchair shall have a running brake which, when operated after the wheelchair has been			
0.2.1	The wheelchair shall have a running brake which,	when operated after the wheelchair has been		n.a.
	The wheelchair shall have a running brake which, put into freewheel mode, shall bring the wheelchai			n.a.
10.2.1 sub b)		r to a stop.		n.a.
sub b)	put into freewheel mode, shall bring the wheelchai	r to a stop. ich operates independently of tyre wear and		
o.2.1	put into freewheel mode, shall bring the wheelchai The wheelchair shall have an automatic brake, wh	r to a stop. ich operates independently of tyre wear and		
sub b) 0.2.1 sub c)	put into freewheel mode, shall bring the wheelchai The wheelchair shall have an automatic brake, wh tyre inflation pressure and which is operated by re	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero		
0.2.1 sub c) 0.2.1 sub c)	put into freewheel mode, shall bring the wheelchair The wheelchair shall have an automatic brake, whetyre inflation pressure and which is operated by respeed command (e.g. spring loaded disc brake). The wheelchair shall have a parking brake which conflation pressure(e.g. drum brake in wheels, spring loaded the wheels, spring loaded the which conflation pressure(e.g. drum brake in wheels, spring loaded the wheels, spring loaded the wheels, spring loaded the wheels, spring loaded the wheels wheel	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero operates independently of tyre wear and tyre g loaded disc brake)		pass
0.2.1 sub c) 0.2.1 sub d) 0.2.1	put into freewheel mode, shall bring the wheelchair The wheelchair shall have an automatic brake, whetyre inflation pressure and which is operated by respeed command (e.g. spring loaded disc brake). The wheelchair shall have a parking brake which compared to the speed command (e.g. spring loaded disc brake).	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero operates independently of tyre wear and tyre g loaded disc brake)		pass
0.2.1 sub c) 0.2.1 sub d) 0.2.1 sub d) 0.2.1 sub d)	put into freewheel mode, shall bring the wheelchair The wheelchair shall have an automatic brake, whetyre inflation pressure and which is operated by respeed command (e.g. spring loaded disc brake). The wheelchair shall have a parking brake which coinflation pressure(e.g. drum brake in wheels, spring Parking rakes shall meet the parking brake effective accordance with 10.2.2.2.	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero operates independently of tyre wear and tyre g loaded disc brake) veness requirement in Table 1 when tested in		pass
sub b) 0.2.1 sub c) 0.2.1 sub d) 0.2.1 sub e) 0.2.1	put into freewheel mode, shall bring the wheelchair The wheelchair shall have an automatic brake, wh tyre inflation pressure and which is operated by respeed command (e.g. spring loaded disc brake). The wheelchair shall have a parking brake which conflation pressure(e.g. drum brake in wheels, spring Parking rakes shall meet the parking brake effective.	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero operates independently of tyre wear and tyre g loaded disc brake) veness requirement in Table 1 when tested in		pass
0.2.1 sub c) 0.2.1 sub d) 0.2.1 sub d) 0.2.1 sub d)	put into freewheel mode, shall bring the wheelchair The wheelchair shall have an automatic brake, whetyre inflation pressure and which is operated by respeed command (e.g. spring loaded disc brake). The wheelchair shall have a parking brake which coinflation pressure(e.g. drum brake in wheels, spring Parking rakes shall meet the parking brake effective accordance with 10.2.2.2.	r to a stop. ich operates independently of tyre wear and leasing the control device to achieve a zero operates independently of tyre wear and tyre g loaded disc brake) reness requirement in Table 1 when tested in power from the battery supplying the drive		pass pass



Species on the			T	
10.2.1	If they are subject to wear, parking brakes shall	have provision for adjustment and/or		pass
(sub h)	replacement as specified by the manufacturer.			
10.2.1	If the wheelchair is fitted with arm supports that of		pass	
(sub i)	when tested in accordance with 10.2.2.3, engag	ed parking brakes shall not have parts that		
	protrude above the level of the occupied seat.			
10.2.1	When parking brakes are tested in accordance w		n.a.	
(sub j)	shall move from the pre-set position and no com	shall move from the pre-set position and no component or assembly of parts shall show visible		
	signs of cracks, breakages, gross deformations,			
	damage that adversely affects the function of the	wheelchair.		
10.2.1	Following testing of the parking brake in accorda	nce with 10.2.2.4, parking brakes shall meet		n.a.
(sub k)	the parking brake effectiveness requirement in T	able 1 when tested again in accordance with		
	10.2.2.2.			
10.3	Freewheel device			
	The wheelchair shall be fitted with a freewheel de			
	-be accessible and operable by the occupant or a		- pass	
	manufacturer's intended use of the wheelchair,		× .	
	-be within the reach space shown in Figure 1, if t		- n.a.	
	the occupant,			
	-be within the reach space shown in Figure 3, if t		- pass	
	solely by an assistant;			
	-have operating forces for engaging and disenga	ging that do not exceed those stated in	- > 27 N - < 47N	- pass
	Table 1,			
	-be operable without detaching any parts,		- pass	
	-not depend on the battery power supplying the n	notor drive system,		- pass
	-have two defined positions including velar indica			- pass
	-prevent use of the wheelchair's drive system, if t	he freewheel device is activated.		- pass
	- freewheel mode shall be protected against activ	ration caused by accidental contact		- pass
11	Operations			
11.1	The wheelchair shall be designed to facilitate	Facilitate ease of operation by user/attendant	ease of operation	pass
	ease of operation by user/attendant as specified			
	the manufacturer instructions			
11.2	Controls intended for operation by the occupant			
11.2	Controls intended to be operated by the	Controls shall be within the users reach.	within the occupants read	pass
	occupant while seated shall be within the			
	occupant reach space shown in figure 1.			
	The following controls, if fitted, are included:			
	— on/off switch or key,		- pass	
	— speed regulator,		- pass	
	— speed pre-setting,		- pass	
	— running brake,		- pass	
	— parking brake,		- pass	
	— audible warning device,		- pass	
	— direction indicator,		- pass	
	— direction switch,		- pass	
	— control device,		- pass	
	— manual steering controls,		- pass	
	— lighting controls,		- pass	



	and in a division of		T	
	— seating adjustments,		- pass	
	— detachable components to facilitate safe		- pass	
	transfers into and out of the wheelchair,			
	— steering controls,		- pass	
	— freewheel device.		- pass	
11.3	Controls operated by an attendant			
11.3	Controls intended to be operated by an assistant shall be within the assistant reach space shown in figure 3.	Controls shall be within the assistant reach.		n.a.
11.4	Assistant control, push handles and handgrips			
11.4	Switches intended to be operated by an assistan	t while driving the wheelchair shall be attached		n.a.
(sub 1)	to an assistant control unit. When an assistant co		"""	
	1. the unit shall be positioned behind the wheeld			
	1200 mm from the floor to the centre of the op	21		
	joystick handle), and			
	there shall be a means to support the assistant device.	t's hand or hands used to operate the control		n.a.
11.4	3. When push handles are fitted, no part of the w	heelchair shall lie within a space to the rear of		n.a.
(sub 1)	the wheelchair bounded by the following:			
	- a plane at 85° to the horizontal, that touches the	e rearmost points of the push handles as		
	shown in Figure 6;			
	- two planes not less than 350 mm apart equidist	ant from a vertical plane parallel to the forward		
	direction of travel that bisects the wheelchair, ur			
	- the horizontal test plane.			
11.4	4. When the wheelchair is fitted with steering and	/ or manoeuvring handgrips for use by an	Hand grip = - mm	n.a.
(sub 1)	assistant, the handgrips shall be at least 75 mm i diameter.	n length and between 20 mm and 50 mm in	A STATE OF THE STA	() Kerring the ()(*)
11.4	5. When manoeuvring handgrips are fitted with co	ontrols that are intended to be used by being		n.a.
(sub 1)	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 F	igure 4.		
1.5	Operating forces			•
1.5	All controls, except for means to operate brakes,	single finger 5 N	- N)*	pass
sub 1)	shall have operating forces for engaging and	one hand 13.5 N	- N)*	
	releasing that do not exceed those started in	hand +arm 60 N	< 60 N)*	
	Table 1 when tested in accordance with 11.5.2.	foot, push 100 N	- N)*	
		foot, pull 60 N.	- N)*	
			* if applicable	



11.5	Tuesian lands and the lands	L		
	Turning knobs operated by one hand shall have:	Turning knobs shall:		
(sub 1)	A max. force (Nm) of 0,05 times the diameter of	F= 0,05 x D knob	F = - Nm	n.a
	the knob (mm) when the knob is ≥ 25 mm where	if D knob is ≥ 25 mm		
	the force is transmitted by friction, and	Diam. Knob = - mm		
	A max. force (Nm) of 0,025 times the diameter of	F = 0,05 D = - Nm		
	the knob (mm) when the knob is < 25 mm to			
	archive the minimum performance of the system	F= 0,05 x D knob	F = - Nm	n.a
	or device.	if D knob is < 25 mm		
		Diam. Knob = - mm		
		F = 0,025 D = - Nm		
11.6	Seating adjustments for tilt and recline systems			
11.6	If specified that the seating can be adjusted by	- attendant/user shall not have to lift a mass		n.a.
(sub 1)		present a safety hazard		II.a.
pa - 040	- attendant/user shall not have to lift a mass	processing a surety mazura		1
	present a safety hazard			
11.6		Controls shall be within the users reach.		200
(sub 2)	occupant while seated shall be within the users	and a serie reason.		n.a.
	reach.			
12	Electrical powered ancillary equipment			
12.1	- The wheelchair shall conform to the requirement		- pass	
	9.5.4.			
	- The wheelchair and battery charger shall conform			- pass
	- In addition. Wheelchairs that include an on-boar			- n.a.
40.0	applicable electrical requirements of EN 60601-	1:2006		
12.2	Circuit protection	VO. 125 V. 125 V		
	- The driving, braking and steering functions shall	not be affected by the operation of the means		- pass
	of protection of any other circuit.			
	- Lights, direction indicators and hazard warning fla	(4)		- pass
	operation of the means of protection of any other	circuit.		
12.3	Battery chargers			
12.3.a	Battery chargers for wheelchairs shall conform to t	he requirements of ISO 7176-14:1997 that		pass
	apply to battery chargers, together with the following	ng provisions:		
	- battery chargers shall indicate when charging is in			
12.3.b	battery chargers shall have the capability of chargi			pass
	nominal voltage;			
12.3.c	battery chargers shall operate without the need for	intervention or supervision apart from		pass
	connecting and turning on at the start of charging a			p
	of charging;			
12.3.d	carry-on and on-board battery chargers shall meet	the environmental protection requirements		n.a.
	of IPX4 when tested in accordance with EN 60529:			11.00
	Voltage requirements of EN 60335-1:2012 following	THE STATE OF THE PARTY OF THE P		
2.4	Charging connector			1
	The wheelchair shall have a charging connector that	at is readily accessible and operable by the		pass
	occupant or an assistant or both in accordance with			pass
	wheelchair.			



12.5	Battery enclosures and containers				
	Battery enclosures and containers shall provide	protection so that it should not be possible for		pass	
	liquids dropping from above to enter into them a			pass	
12.6	Emergency stop				
	The wheelchair shall be fitted with one or more e	emergency stop devices to enable actual or			
	impending danger to be averted.				
	Each emergency stop device shall:				
	— be clearly identifiable, clearly visible and quick	kly accessible by the intended operator, and		- pass	
	— stop the hazardous process as quickly as pra		- pass		
	- Once active operation of the emergency stop d		- pass		
	that command shall be sustained by the wheel		pass		
	overridden. It shall not be possible to engage t				
	10 New 2001	It shall be possible to disengage the device only by an appropriate operation, and			
	disengaging the device shall not restart the wh				
	- The emergency stop function shall be available		- pass		
	operating mode.		Pales		
	- Emergency stop devices shall be a back-up to		- pass		
	substitute for them.				
12.7	Lighting			•	
	Wheelchairs intended by the manufacturer for ou		n.a.		
	lighting suitable for the operations concerned wh				
	despite ambient lighting of normal intensity.				
12.8	Switching off while driving				
	If the wheelchair is switched off while driving on t		pass		
	maximum stopping distances specified in Table 2		Pass		
12.9	Electronic programmable systems				
	 Software that is embedded in the wheelchair or malfunction of which could give rise to a hazard maintained in accordance with EN 62304:2006. 		- pass		
	- This requirement does not apply to software pro		- pass		
	EN 12184:2009, but it does apply to software m			Pass	
13	Information supplied by the manufacturer				
13.1	General				
13.1	Each wheelchair shall be provided with	Must conform to	according to EN 12182	nace	
	documentation and labelling that conform to the	EN 12182 and	according to ISO 7176-15	pass	
	requirements in EN 12182 and ISO 7176-	ISO 7176-15	according to 150 / 170-18	1	
	15:1996.	100 / 110 10			
	In addition, the manufacturer shall provide the	Provide in 3 separate sections	3 separate sections	nass	
	documentation in three separate sections: pre-	. To the lift of operate occitorio	o separate sections	pass	
	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.				
	For the requirements in 13.2 and 13.3, unless	Dimensions in mm and kg		pass	
	otherwise specified, all linear dimensions shall		1	pass	
	be expressed in millimetres and all masses shall				
	be expressed in kilograms.				



13.2	Pre-sale information				
	In addition to the requirements of 13.1, pre-sale				
	information shall include the following:				
	a) information on how to obtain the user information in	In manual	information available	a) p	ass
	format appropriate for use by visually impaired people;		acceptable in the Additional Additional Control of the Control of		
	b) a description of the intended occupant of the	In manual	information available	b) p	ass
	wheelchair, including the occupant's mass and any				
	specific requirements for the occupant's functional				
	capability, visual ability and cognitive ability suitable for		2		
	operating the wheelchair safely in its intended				
	environment;				
	c) the intended operator (occupant, assistant or both);	In manual	information available	c) pa	ass
	d) a description of the intended use and the intended	In manual	information available	d) pa	
	environment;			-, -,	
	e) the type class of the wheelchair: Class A, Class B or	In manual	information available	e) pa	ass
	Class C;			J , pc	
	f) the overall dimensions (width, length and height) of	In manual	information available	f) pa	256
	the wheelchair and its mass when it is ready for use			'	
	and, if applicable, when it is folded or dismantled;				
	g) if the overall dimensions of the wheelchair when it is	In manual	information available	g) n.	а
	ready for use exceed the values recommended in A.1.1,			9, 11.	ч.
	a clear statement that the wheelchair is larger than the				
	recommended dimensions;				
	h) the minimum width of corridor in which the wheelchai	In manual	information available	h) pa	986
	can be turned to face the opposite direction;		and a tallable	11) 60	100
	i) the rated slope, expressed in degrees;	In manual	information available	i) pa	200
	j) the standard options that are available for the	In manual	information available	j) pa	
	wheelchair;		aranasis)) po	
	k) the type(s) of tyres that can be used on the	In manual	information available	k) pa	155
	wheelchair;		and a validation	ку ра	
	I) operator adjustments;	In manual	information available	l) pa	100
	m) if the wheelchair can be dismantled or has any	In manual	information available	m) pa	
	removable parts, the mass of the heaviest part;	Vanish (1997)	a diameter and a diam	, pa	
	n) information concerning whether the removal of parts	In manual	information available	n) pa	120
	or accessories intended by the manufacturer to be		morniadon available	п) ра	33
	removed without the use of tools will have adverse or				
	beneficial effects on the wheelchair;				
	o) information on whether or not the wheelchair is	In manual	information available	o) na	00
	intended to be used as a seat in a motor vehicle, and			o) pa	J
	whether and how this depends on the standard options				
	referred to in j);				
	p) information on whether the unoccupied wheelchair is	In manual	information available	n) na	90
	suitable for land and/or air transport;		available	p) pas	.5
	q) the theoretical continuous driving distance range,	In manual	information available	a) na	00
	expressed in kilometres, that the wheelchair can travel		avallable	q) pas	55
	under its own power on the horizontal when tested in				
	accordance with ISO 7176-4:2008, with the addition of a				



			T	_	
	note explaining that the distance will be reduced if the				
	wheelchair is used frequently on slopes, rough ground				
	or to climb kerbs, etc.;				
	This additional requirement may be reduced to some				
	degree if an accurate charge level indicator is fitted.				
	r) the maximum height of kerb which the wheelchair car	n In manual	information available	r)	pass
	descend safely;				
	s) if a programmable controller is fitted, information on	In manual	information available	s)	pass
	the method of programming, the competency required				
	to carry out the programming and the effects it can have	e			
	on driving performance				
13.3	User information				
	User information shall be provided by the manufacturer		provided		
	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:				
	a) the unique identification number of the wheelchair or	In manual	information available	a)	pass
	information on the location of the unique identification			'	
	number on the wheelchair;				
	b) any adjustment or settings required before the	In manual	information available	b)	n.a.
	wheelchair can be used and warnings of how			-,	50,50
	adjustments or settings affect stability;		-		
	c) where applicable, information on any adjustments	In manual	information available	c)	pass
	that can be made and the competency required to carry			,	paco
	out these adjustments;				
	d) instructions on operation of all controls, including	In manual	information available	d)	pass
	brakes;			"	pado
	e) instructions on how to engage and disengage the	In manual	information available	e)	pass
	drive system;			-,	
	f) the wheelchair manufacturer's recommended tyre	In manual	information available	n	n.a.
	pressure(s), expressed in kPa, bar or PSI;	00.00 Anticology/School		"	
	g) instructions for dealing with tyre punctures, where	In manual	information available	(a)	n.a.
	pneumatic tyres are fitted;			3,	
	h) the battery type and nominal voltage;	In manual	information available	b)	pass
	i) instructions for battery maintenance;	In manual	information available	i)	pass
	j) instructions for operating the battery charger.	In manual	information available	j)	pass
	including warnings regarding any potential safety		and a randolo	"	puoo
	hazards (e.g. a possibility of gas accumulating in the				
	charging area, use of the wrong type of battery				
	charger);				
	k) if required by the risk analysis, instructions for fitting	In manual	information available	M	n a
	an additional emergency stop device where the	The state of the s	inionnauon avallable	K)	n.a.
	intended occupant has an impairment which could				
	restrict their ability to operate one;				
	instructions on whether and how the wheelchair can	In manual	information available	15	nc
		in manda	information available	1)	pass
	be folded to assist in storage or transport;			_	



m) instructions on dismantling and re-assembly of the	In manual	information available	m) pass
wheelchair or any removable parts;			
n) instructions regarding transport of the wheelchair	In manual	information available	n) pass
when it is unoccupied (e.g. in a car or aeroplane);		91 (SOM SOM)	
o) the masses of parts of the wheelchair that are	In manual	information available	o) pass
expected to be handled during dismantling, reassembly,			
or carrying;			
p) the positions of points where the component parts	In manual	information available	p) pass
can be gripped for safe moving and handling and/or a		and the first of the Association and the control of the Boyes (All Association) and the Control of the Control	10000000
method for handling during dismantling, assembly or			
carrying;			
q) if the manufacturer specifies that the wheelchair is	In manual	information available	q) n.a.
intended for use as a seat in a motor vehicle, the			47
method of attaching wheelchair tie down and occupant			
restraints, and recommendations about suitable tie			
down and restraint systems;			
r) if the manufacturer specifies that the wheelchair is not	In manual	information available	r) n.a.
intended for use in the motor vehicle, a warning to that		100000000000000000000000000000000000000	.,
effect, together with the symbol shown in Figure 7;			
s) instructions on how to obtain and fit the optional	In manual	information available	s) pass
anterior pelvic support (see 9.4) if it is not supplied with			o, pass
the wheelchair;			
t) the positions of points intended to carry additional	In manual	information available	t) pass
loads;			, pacc
u) instructions for preparing the wheelchair for long-term	In manual	information available	u) pass
storage (e.g. longer than four months) and for preparing			u) pass
it for use afterward;			
v) a warning that the wheelchair might disturb the	In manual	information available	v) pass
operation of devices in its environment that emit	C.C. Gelder (New York)	and an aranger	v) pass
electromagnetic fields (e.g. alarm systems of shops,			
automatic doors, etc.);			
w) a warning that the driving performance of the	In manual	information available	w) pass
wheelchair can be influenced by electromagnetic fields		and a validation	Wy pass
(e.g. those emitted by portable telephones, electricity		-	
generators or high power sources);			
x) a warning that the stopping distance on slopes can	In manual	information available	x) pass
be significantly greater than on level ground;		mornidadir available	x) pass
y) a warning that surface temperatures can increase	In manual	information available	W page
when exposed to external sources of heat (e.g.		miormation available	y) pass
sunlight);			
	In manual	information available	7) 5555
3 3 9 11 1 1 1 1 1	• Control of America	information available	z) pass
outside the limits specified in Table 1 and Table 2;	300000000000 0000	morniadon avallable	aa) pass
PROCESSOR AND AND A SECOND SECOND	In manual	information available	hh) nosa
positions can be set outside safe limits;		morniquon avallable	bb) pass
cc) if the overall width or overall length of the wheelchair	In manual	information available	cc) pass
when it is ready for use exceed the applicable values		available	cc) pass



	recommended in A.1.1, a warning concerning access to			
	emergency escape routes;			
	dd) the level of resistance to ignition of materials and	In manual	information available	dd) pass
	assemblies;			
	ee) information on the recycling of used batteries and or	f In manual	information available	ee) pass
1	the wheelchair;			2010
	ff) if the characteristics of the wheelchair (including	In manual	information available	ff) n.a.
	occupant as applicable) exceed the limits specified in			
1	Annex M of the Technical Specification for			
	Interoperability relating to Accessibility for Persons with			
	Reduced Mobility (PRM-TSI), a statement to that effect			
	(see Annex D);			
	gg) information on how to find out about product safety	In manual	information available	gg) pass
	notices and product recalls, for example by ensuring the		and a validation	99) pass
	supplier has up-to-date contact information;			
	hh) the expected service life of the wheelchair;	In manual	information available	hh) pass
	ii) the name and address of the manufacturer:		momaton available	iiii) pass
	jj) the name and address of the authorised			
	representative, where the manufacturer does not have a			
	registered place of business in the European Union.			
13.4	Service information			
	The service information shall contain all the pre-s	ale, user information and instructions	information available	pass
	necessary for the maintenance, adjustment and r		In manual	μασσ
	replacement of parts			
13.5	Labelling			
	In addition to the requirements of 13.1, the			
	manufacturer shall apply permanent labelling for			
	the following:			
	a) devices for disconnection of the drive		E020 020 021 02	
	a) devices for disengagement of the drive	Clearly marked	Marked clearly	pass
	system, showing engaged and disengaged	Showing positions	Showing positions	
	positions, including a warning that the drive	Warning available	Warning available	
	system should be re-engaged before an			
	occupant is left unattended or attempts to operate the wheelchair;			
	Parties 12 V o	Oleratoria	VV 10 10 10	
	THE STATE OF THE PROPERTY AND ADMINISTRATION OF THE	Clearly marked	Marked clearly	n.a.
	includes use as a seat in a motor vehicle, the			
	position of attachment points for wheelchair tie-			
	down and occupant restraint systems (WTORS);	Classic and design		
	1	Clearly marked	Marked clearly	pass
	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		1	
	location as the labelling required by ISO 7176-			



15:1996;			
d) for battery chargers that are not on-board	Clearly marked		n.a.
chargers, information and connection details			
specified in Clause 9 of ISO 7176-14:1997;			
e) for Class A wheelchairs not intended for use	Clearly marked	Marked clearly	pass
outdoors, a warning to that effect		0. 10 See ₹8	



1.2.2	User information		1		
	User information shall be provided by the				
	manufacturer with each assistive product.				
	Information shall contain all pre-sale warnings				
	and information's and the following as applicable				
- 1	for each assistive product:		information available	a) pa
	 a) the location and the type of identification number/word on the assistive product shall be given for the unique identification number of the assistive product; 	In manual	information available		
	 the intended user; any adjustment or settings required before the assistive product can be used and information on how adjustments or settings affect the assistive product; 	In manual In manual	information available	(b)) pa) n.
	d) information on adjustment possibilities and the competence required to carry out these adjustments;	In manual	information available	d)) pa
	e) instructions on operation of all controls; f) the battery type and nominal voltage;		information available	e)) pa
	g) instructions for battery maintenance;	In manual	information available	f)	pa
- 1	h) instructions for operating the battery charger,	In manual	information available	g)	pa
	including warnings regarding any potential safety hazards (e.g. a possibility of gas accumulating in the charging area);	In manual In manual	information available	h)	pa
ļ	instructions on dismantling and re-assembly of the assistive product or any removable parts:	In manual	information available	i)	pa
j	 the positions of points where the component parts can be gripped for safe moving and handling and/or a method for handling during 	In manual	information available	j)	pa
ļ	dismantling, assembly or carrying; (a) a warning if surface temperatures can increase / decrease when exposed to	In manual	information available	k)	pa
ı		In manual	information available	l)	ра
r	disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems of shops, automatic doors, etc.); a warning if the performance of the assistive product can be influenced by electromagnetic fields (e.g. those emitted by portable telephones, electricity generators or	In manual	information available	m)) pa
r	high power sources) if the intended purpose of an assistive product cannot be met without a hazard (e.g. holes, V-shaped opening), a warning and instructions on how to operate	In manual	information available	n)	ра
o	the assistive product safely;) If the intended purpose of an assistive product cannot be met without a hazard due to moving parts such as squeezing, a warning and instructions on how to operate	In manual	information available	0)	pa
р	and assemblies;	In manual	information available	p)	pas
q	and other parts of the assistive product;	In manual	information available	q)	pas
r)	expected lifetime of the assistive product	In manual	information available	r)	pas
			a rando	'	Pas



§ 24.2.3	Service information			
	The service information shall contain all the pre-	In manual	information available	pass
	sale information, user information and	And Consider ALL District Control Con		
	instructions necessary for the maintenance,			
	adjustment and repair of the assistive product			
	and for the replacement of parts.			
	The service information shall contain all the pre-	In manual	information available	pass
	sale information and the user information.	in manage	illioimation available	pass
	The service information shall be sufficiently	In manual	information available	2000
	detailed concerning preventive inspection,	in manual	information available	pass
	maintenance and calibration, including the			
	frequency of such maintenance.	In an annual to the second	1.5	
	The service information shall provide information	in manuai	information available	pass
	for the safe performance of such routine			
	maintenance necessary to ensure the continued			
	safe use of the assistive product.			
	Additionally, the service information shall identify	In manual	information available	pass
	the parts on which preventive inspection and			
	maintenance shall be performed by service			
	personnel, including the periods to be applied			
	and details about the actual performance of such			
	maintenance.			
§ 24.3	labelling			
	- In addition to the requirements of 24.1, the manufacturer shall apply permanent labels for the		information available	pass
	year of production for the product;		and an available	Pacc
	- Detachable parts of an assistive product with a mass of more than 10 kilograms shall be		information available	nace
	marked with the actual mass on the part;		illioittiation available	pass
	- Symbols for use in the labelling of medical devices shall be in accordance with NEN EN ISO		information available	
	15223.	es shall be in accordance with NEN EN 150	information available	pass
§ 25	Packaging			
127	The hazards that can be caused by inadequate pr	otective packaging shall be assessed in the		n.a.
	risk analysis	, and a second of the second o		1
	50 to 1000 March 100 To 1000			
	EN 1041			
	Information supplied by the manufacturer of			
	medical devices			
§ 4	Requirements		In risk manual	
	General			
§ 4.1	Product information and labelling shall be part of r	isk management procedures.		pass



§ 4.2	Units, symbols and colours		
	- Units used shall be SI units as specified in ISO 1000 or any other legal units.		pass
	- Symbols and safety-related identification colours shall be explained in the information		pass
ner vertrar	supplied unless they are taken from harmonized standards."		
§ 4.3	Language and country identifiers		
	- If the manufacturer decides to identify the language used in the information provided, for		pass
	example to indicate to users the appropriate language in a multilingual document, this shall be	Э	
	done using the language codes given in ISO 639-1 and/or the plain text of the language (e.g.		
	"English").		
	- If the manufacturer decides to identify the country in the information provided, for example to		pass
	indicate to users the appropriate customer service contact details for their country, this shall		
	be done using the country codes given in EN ISO 3166-1 and/or the plain name of the country	/	
	(e.g. "France").		
§ 4.4	Dates		
	Any human-readable date shall be expressed in the format YYYY-MM-DD, YYYY-MM or YYYY	′ ,	
	in accordance with ISO 8601.		pass
§ 4.5	Device nomenclature		
§ 4.5.1	Identifiers of nomenclature		
	When it is required to include the identification of the generic device group or the device		
	category in the information supplied with the device, this may be done using a nomenclature		n.a.
	that is in compliance with EN ISO 15225.		Π.α.
§ 4.5.2	Device common terms		
-	When it is appropriate to identify collective terms for medical devices in the information		
	supplied, for example common technology or common materials of construction, this shall be		
	done using the terms and codes set out in CEN/TR 15133		n.a.
§ 4.5.3	Batch code; lot number; batch number; lot code		
	These shall consist of alphanumeric characters but may also be presented by other means, for		
	example by using machine-readable codes.		n.a.
§ 5.1	General		
§ 5.1.1	Safe and effective use of the device"		
	- Any means of provision of information with medical devices shall take into account the		nasa
	intended users, the conditions of use and any issues specific to individual device types that		pass
	are necessary for the safe and effective use of the device. This shall apply regardless of		
	whether the specific requirements listed below apply to the device.		
	- The appropriate way of providing information shall be based on a risk assessment and in line		
	with the training, experience and education of the intended users.		pass
§ 5.1.2	5.1.2 Address required under medical devices directives		
U,-	- All medical devices which are placed on the market and put into service within the	Available	
	Community, shall contain the name or trade name and address of the manufacturer in the	Available	pass
	information supplied by the manufacturer.		
	- When the manufacturer does not have a registered place of business in the Community, the	Assettable	
	information shall contain in addition the name and address of the authorized representative.	Available	pass
		A	
	- For devices covered by the MDD, the name or the trade name and address of the	Available	pass
	manufacturer shall appear on the label and in the instruction for use if provided with the		
	device. When the manufacturer does not have a registered place of business in the		



	Community, the label, or the outer packaging, or instructions for use shall contain, in addition,		
	the name and address of the authorized representative.		
	- For devices covered by the AIMDD, the name and address of the manufacturer shall appear	Available	pass
	on the sterile pack and the sales packaging and in the instruction for use. When the	Available	
	manufacturer does not have a registered place of business in the Community, the sales		
	packaging and the instructions for use shall contain, in addition, the name and address of the		
	authorized representative.		
	- The address to be used shall be the same as the address of the manufacturer and/or the	Available	pass
	authorized representative as their registered place of business. The address shall be the		
	same as the address used on the declaration of conformity, in relevant certificates and in the		
	European database for medical devices.		
	- The full address used shall contain the following elements insofar as they are available in the	Available	pass
	address system of the country where the relevant entity (manufacturer or authorised		
	representative) is registered:	• pass	
	street/road;number/house/floor;	• pass	
	postal code;	passpass	
	• city;	• pass	
	 state/region; and country. 	• pass	
	- The information regarding street/road and number/house/floor may be omitted if a postal code		pass
	dedicated to the manufacturer (corporate postal code) or authorized representative is used		I have
	which fully replaces the indication of street/road and number/house/floor, and is not a PO box		
	numbe."		
§ 5.2	Specific requirements		
§ 5.2.1	Applicability		
	These specific requirements shall be applicable to all devices to the extent that they are		
	applicable to the specific device type concerned and to the means of provision of the relevant		n.a.
	information. For example, the requirement to allow for a "use by" date is not applicable to		II.a.
	devices that do not bear a "use by" date.		
§ 5.2.2	Accessibility	present	
	- The information presented with a device shall be accessible to intended users taking into	present	nace
	account their age, education, knowledge and training.		pass
	- When appropriate, a specific means of provision may be restricted to users to whom it is		
	particularly applicabl		n.a.
§ 5.2.3	Legibility	logible	
	Information intended for visual recognition shall be easily legible when viewed using normal	legible	
	vision, corrected if necessary, taking into account the specific size and conditions of use of the		
	particular device.		pass
	particular device.		
§ 5.2.4	Availability		
3 0.2.7		Available	
	Information shall be available as long as reasonably necessary, taking the lifetime of the device		pass
	into consideration.		



0.5.0.5		T	_
§ 5.2.5	Security		1
	- As far as practicably possible, the medium of information provision shall be protected from		pass
	corruption, degradation and deliberate change by those other than the manufacturer, whether		
	malicious or not.		
	- If the user can readily identify faulty information, for example by virtue of damaged labels,		pass
	advice on the action to take shall be provided.		1
	- Where the damage to information is not readily apparent and/or the consequences of damage		
	are not obvious, guidance shall be provided on how to maintain the security of the information		n.a.
	and limit any adverse consequences.		
§ 5.2.6	Changes to information provided		
	Any changes to information provided for existing users shall be clearly communicated if they		
	are important for patient safety.		pass
§ 6	Documentation		
	Documentation relating to information provided shall be maintained in the technical		
	documentation(s) relating to the device(s) that are the subject of the information. This may take	Information available	pass
	the form of a specific section holding all the documentation or, alternatively, references to parts		
	of a larger document where the information may be found, such as a quality manual.		
	ISO 7176-15:1996		
§ 5	Requirements for disclosure of test information in manufacturer's specification sheets		
	The specification sheet shall contain the following:		
	The specification officer of all contains the following.		
	a. the model designation and/or any other information that will uniquely identify the wheelchair		2 2000
	model;		a pass
	b the mass of the test dummy used in the test;		h noos
	c either:		b pass
	the performance values listed in annex A, in the order and using the wording shown:,		c pass
	(if applicable, with min and max values)		
	Overall length with leg rest, mm)		1. pass
	2. Overall width, (mm)		2. pass 3. pass
	3. Folded length, (mm)		4. pass
	4. Folded width, (mm) 5. Folded height, (mm)		5. pass
	6. Total mass, (kg)		6. pass
	7. Mass of the heaviest part, (kg)		7. pass 8. pass
	8. Static stability downhill, (°)		9. pass
	9. Static stability uphill, (°) 10. Static stability sideways, (°)		10. pass
	11. Energy consumption (km)		11. pass
	12. Dynamic stability uphill, (°)		12. pass 13. pass
	13. Obstacle climbing, (mm)		14. pass
	14. Maximum speed forward, (km/h) 15. Minimum braking distance from max. speed, (mm)		15. pass
	16. Seat plane angle, (°)		16. pass
	17. Effective seat depth, (mm)		17. pass
	18. Effective seat width, (mm)		18. pass 19. pass
	19. Seat surface height at front edge, (mm)		20. pass
	20. Backrest angle, (°) 21. Backrest height, (mm)		21. pass
	22. Footrest to seat distance, (mm)		22. pass
	23. Leg to seat surface angle, (°)		23. pass
	24. Armrest to seat distance, (mm)		24. pass 25. pass



	105.5			
	25. Front location of armrest structure, (mm)			
	26. Handrim diameter, (mm) 27. Horizontal location of axle, (mm) 28. Minimum turning radius mm 29. The wheelchair conforms to the following standards: a. requirements and test methods for static, impact and fatigue strengths (ISO 7176-8) b. power and control systems for electric wheelchairs - requirements and test methods (ISO 7176-14) c. climatic test in accordance with ISO 7176-9 d. requirements for resistance to ignition in accordance with ISO 7176-16. if the part of ISO 7176 specifies a method of			26. pass 27. pass 28. pass 29. pass
	disclosure, that method shall have precedence			
	d) maximum occupant mass			d pass
§ 7	Documentation			
§ 7.1	General The following information shall be available in the wheelchair is marketed.*	e official languages of countries in which the		
	a) The specification sheets (see clause 5), b) a statement as to which features and options are included in specific models of wheelchairs:		Information available Information available	pass pass
	c) a description of the intended use, (for examp or indoor/outdoor use); d) either: i) details of the warranty, or ii) if no warranty is provided, a	le, maximum mass of the user,	Information available Information available	pass
5	statement to that effect; e) information on how to get repairs and service. f) information as to whether a service manual is g) an user manual.		Information available Information available information available	pass pass pass
§ 7.2	User manual			
§ 7.2.1	At least one copy of the user manual shall be sup	oplied with each wheelchair.	Information available	pass
§ 7.2.2	When illustrations show components that are referred to in the text of the user manual, these components shall be numbered or named for positive identification. Illustrations shall be numbered or named for positive identification.		Information available	pass
7.3	Contents of user manual			
	User manuals shall contain the following information:			
	a) details of the warranty; b) general characteristics as follows: i) description of the wheelchair type; ii) description of the intended user	In manual In manual	Information available Information available	a pass b pass
	including maximum occupant mass;			



iii) the environment in which the			Τ-
wheelchair is intended to be used;			
iv) if pneumatic tyres are fitted, the			
recommended inflation pressure;			
	In manual	Information and Intelligen	
user-assembly, the following	iii iiialiual	Information available	c pas
information:			
23424 00 4 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
i) a list of components,			
ii) information about any tools or			
equipment for assembler,			
iii) instructions on how to inspect for			
missing or damaged parts,			
iv) instructions for assembling, installing			
and removing any parts (manufacturer),			
v) instructions on how to prepare the			
wheelchair for storage, shipment or			
travel,			
d) instructions for operation of the	n manual	Information available	d pas
wheelchair as follows.	n manual		
i) complete operating instructions for safe use			
including:			
- instructions for operating the wheelchair on			
surfaces likely to be encountered by the user,			
- instructions for transfer of the user to			
and from the wheelchair,			
- illustrations to clarify these instructions;			
i) any common misuse of the wheelchair known			
by the manufacturer that might lead to personal			
njury or damage to the wheelchair;			
A	n manual	Information available	
annotated illustrations, and the	· manaai	miormation available	e pas
following information:			
) details of any maintenance, including:			
· any service, maintenance;			
information about needed to repair			
and service the wheelchair;			
frequency of maintenance;			
- a list of materials necessary;			
0 000 materials €1.00 m			
- identification of circumstances in which			
an operation should be undertaken by			
the manufacturer, distributor or service			
agent,			
i) instructions on methods of cleaning,			
ii) for parts that the manufacturer intends			
to be readily replaced, the following:			
ordering information,			
instructions for access removal,			



	- replacement and testing, and			
	- annotated illustrations of the parts;			
	iv) information on how to perform			
	potentially hazardous maintenance			
	operations;	11		
	f) instructions for carrying out performance checks;	In manual	Information available	f pass
	g) description of wheelchair repair procedures as follows:	In manual	Information available	g pass
	i) identification of parts that are intended			1
	to be repaired by the user,			
	ii) identification of parts that have to be serviced by the			
	manufacturer or an authorized service facility in order to			
	maintain warranties and serviceability,			
	iii) identification of any parts that can be removed and	-		
	sent to the manufacturer/ distributor or other party for			
	repair,			
	iv) identification of circumstances in which the			
	manufacturer, distributor or service agent should			
	undertake the repair,			
	v) a list of authorized service facilities, If this information			
	is not known, a clearly marked space for this information			
	to be added by the supplier should be provided.			
	vi) information on whether or not any			
	replacement units are available,			
	vii) packing and shipping instructions			
	when necessary.			
§ 8	Permanent labelling			
§ 8.1	The following shall be marked in a permanent			
	manner on each wheelchair:			
	a) the name and address of the manufacturer of the wheelchair;	Marked		a pass
	b) the model designation and serial number of the wheelchair;	Marked		b pass
	c) the year of manufacture;	Markad		
	d) any driving restrictions;	Marked		c pass
	e) recommended maximum mass of the	-		d pass
	user.	Marked		e pass
§ 8.2	Tyres shall be marked with the size of the tyre.			pass

Remark: n.a. = not applicable



End of report	
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