

CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 20.06,2016

TEST REPORT NO. *CBC-112/2016*

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Subject of testing:

Pedal exerciser

Classification according to

PN-EN ISO 9999:2011: 03 48 03

Number of specimens: 1

Type / Model:

Art.-Nr.: 272002

Manufacturer:

MOBILEX A/S

Grønlandsvei 5

DK - 8660 Skanderborg

Applicant:

A-Net s.c.

93-469 Łódź.

ul. Łaskowice174

Kind of testing

Testing scope according to application of Client

Mechanical testing according to PN-EN 12182:2012;

PN-EN ISO 4210-2:2014-09

Test started: 8.06.2016

Test finished: 20.06.2016

Approved by:

mgr inż. Andrzej Tkaczyk

Special comments / enclosures:

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Test results refer only to tested units.

Test results reported here are not applicable to the further modifications of the product affecting its structure, material or technology.

This test report shall be neither copied differently as in the whole nor be published without written consent of the Laboratory.



Mechanical Laboratory of CBC Report no.: CBC-112/2016 Page: 2 of 6 TESTING NORMATIVE REFERENCES PN-EN 12182:2012 Technical aids for disabled persons – General requirements and test methods PN-EN ISO 4210-2:2014-09 Cycles – Safety requirements for bicycles – Part 2: Requirements for city and

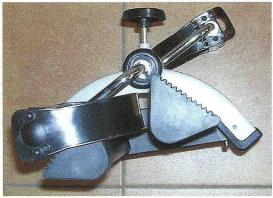
PHOTO OF PRODUCT

trekking, young adult, mountain and racing bicycles













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Pedal exerciser

DK - 8660 Skanderborg Tel: +45 87 93 22 20 www.mobilex.dk

Max. 100 kg

(Froduced: 2,2016



WARNING

Do not stand on the pedals and do not put excessive weight on the pedals as you may damage the Pedal Exerciser

CHARAKTERISTICS OF PRODUCT Maximum load Art.-Nr. 272002 100 kg Mass of product 4,96 kg **Eccentricity** 100 mm **Dimensions of folded product** 274 x 430 x 173mm Dimensions of unfolded product 466 x 430 x 276mm **Base dimensions** 392 x 466mm Material: steel, plastic

9

10

11

V/I

Sterility

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		COUL WITH	TO A A MALE	

			ESOLIS according to 1 P	4_T71.4 T	ZIUZ.	AULE		
Requirement s according to clause	Test method according to clause	Checked	characteristics/assemblies/pa	aramete	ers	Test result	Opinion	Comments
4.1	4.8, 5.2, 5.4.2, 5.5, 6, 8.2.1, 9.4, 10, 22, 24 i EN 1441					N/T		
4.2	V/I	Expected char	acteristics and technical documentati	on	-	Conf.	Pos.	
4.3	EN ISO 14155 Clinic assessment				American	N/T		
4.4	V/I	Technical sup	port which can be dismantled			and the control of th	N/A	
4.5	V/I	Single use cor	nections				N/A	
4.6	V/I	Boundary valu	es of user weight			Conf.	Pos.	
4.7	V/I	Immobilising	means				N/A	
	V/I, C5	Suitability of	he product for people with cognitive	impairme	ent		N/T	
4.8	8	documentation	of the description in the manufacture	er's			N/T	
	EDI (0(01 1 0	Materials					37/77	
5.1	EN 60601-1-9	Recycling				:==	N/T	
5.2	V/I, B 5.2	Flammability					N/A	
5.2.2	V/I		arts, mattresses, bed bases and beddi	ng ————			N/A	
5.2.3	V/I, EN 1021		Upholstered parts				N/A	
5.2.4	V/I, EN 597	Mattresses and	d bed bases				N/A	
5.2.5	V/I. EN ISO 12952	Bedding					N/A	
5.2.6	V/I. EN 60695-11-10	Moulded parts	3				N/A	
5.3	EN ISO 10993-1 Annex. D	Biological con	formity and toxicity			==	N/T	
5.4	V/I	Contaminants	and residues				N/A	
(000-010-000-000-000-000-000-000-000-000	V/I.,B.5.5.1	77.6	Cleaning				N/T	
	V/I.,B.5.5.1	olo- s and nation	Disinfection				N/A	
5.5	V/I., EN ISO 22442-1 B.5.5.2	Microbiolo- gical infections and contamination	Animal tissue				N/A	
5.6	EN ISO 9227	Resistance to	corrosion				N/T	NOTE 1
6		Emitted sour	d and vibration					
6.1	EN ISO 3746 Noise and vibration B6						N/A	V
6.2	EN ISO 3746	Sound levels and frequencies of audible warning devices					N/A	
Require ments accordi ng to clause	Test method according to clause		Checked stics/assemblies/parameters	Real value	Test result	Comments		
6.3	l	Feeedback			N/A		w	water continue black continue and the second
7	7.2, 7.3, 7.4	Electromagnetic	· ·		N/A			
8		Electrical safety			N/A			

-	V/I	Overflow, spillage, leakage, and ingress of liquids	 N/A	
1	V/I. Measur.	Surface temperature	 N/A	$t^0 \le 41^0 C$

requirement does not concern heat of direct solar radiation - PN-EN 12182,clause 10a

■ requirement concerns only persons with insensitiveness of skin (who do not feel heat) - PN-EN 12182,clause 10d

N/A



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Require ments accordi ng to clause	Test me accordi clau	ng to	Checked characteristics/assemblies/parameters	Real value	Test result		Comr			
12	V/I. Me	easur.	Safety of moving parts		N/T					
13	V/I. Me	easur.	Prevention of traps for parts of the human body		N/T					
14	V/	I	Folding and adjusting mechanisms	-	N/T		**************************************			
15	V/I. Me	easur.	Carrying handles		N/T					
16	V/I. Me	easur.	Assistive products which support or suspend users	Conf.	Pos.		NOT	TE 2		
17	V/I. Measur. Portable and mobile assistive products N/A									
18	V/I, I	3 18	Surfaces, corners, edges and protruding parts	Conf.	Pos.					
19	B 1		Hand held assistive products		N/A			4		
20	В 2	0	Small Parts	Conf.	Pos.					
21	V/I. Mc EN 600		Stability		N/A		***************************************			
22	В 22,		Forces in soft tissues of the human body		N/A					
23	V/I EN 61		Ergonomic principles		N/T	The requir	ements i		he desig	
Require ments accordi ng to clause	Test method accordi ng to clause	nethod according to Checked characteristics/assemblies/parameters					Real valu e	Test result	Com ment	
24	V/I	Requ	irements for information supplied by the manufact	urer						
24.1		Gene						N/T		
24.2			uctions for use					N/T		
24.2.1 V	V/I	a) ii	ale Information Information on how to obtain the user information in a neople with visual, reading orcognitive disabilities		propriate	for use by		N/T		
			ll information shall as far as possible be available in Pic					N/T		
			description of the intended use and the intended enviro	onment;				N/T		
			e) i	naintenance instructions, if applicable; f an assistive product is intended to be cleaned, a d and suitable cleaning materials, including precautions pplicable;	escription needed to	of the mayoid corr	ethod osion, if		N/T N/T	
			f) i	f an assistive product is intended to be disinfected, a cuitable materials, including any precautions needed to	avoid corre	osion, if a	pplicable;		N/T	
				n	he overall dimensions (width, length and height) of the nillimetres, and its mass, expressed in kilograms, when applicable, when it is folded or dismantled	it is ready	for use an	nd, if		N/T
	V/I	a	he mass expressed in kilograms if the assistive produ- iny removab!e parts that has a mass which is heavier th	nan 10 kg;				N/T		
24.2.1		 i) if the assistive product is supposed to be used in combination with other products, the manufacturer shall state to which products, and how this can be done in a safe way; j) warning about dangerous combinations of devices (e.g. cushions for the prevention 						N/T		
		of decubitus ulcers often only work on correct seat surface) and combination flame resistant and non-flame resistant material;	tions of		N/T					
		C	list of accessories, detachable parts and materials the determined as being intended for use with the assistive	product		er has		N/T		
		r	f a programmable controller is fitted, information programming, the competence required to carry out to effects on performance			the		N/T		
		m) c	perator control adjustments					N/T	_20	
		0	whether and how the assistive product can be folded or or transport					N/T		
			nstructions regarding transport of the assistive product	(e.g. in a c	ar or aero	plane)		N/T		
	1	(p) r	neasured sound power level				1	1	1	



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Require ments accordi ng to clause	Test method accordi ng to clause	Checked characteristics/assemblies/parameters		Test result	Com ment			
24.2.2	V/I	User information						
		User information shall be provided by the manufacturer with each assistive product. Information shall contain all pre-sale warnings and informations and the following as applicable for each assistive product:		N/T				
		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		N/T				
		b) the intended user		N/T				
		c) any adjustment or settings required before the assistive product can be used and information on how adjustments or settings affect the assistive product		N/T				
		d) information on adjustment possibilities and the competence required to carry out these adjustments		N/T				
		e) instructions on operation of all controls		N/T				
		f) the battery type and nominal vottage		N/T				
		g) instructions for battery maintenance		N/T				
		h) instructions for operating the battery charger, including warnings regarding any potential safety hazards (e.g. a possibility of gaś accumulating in the charging area);		N/T				
		i) instructions on dismantting and re-assembly of the assistive product or any removable parts;		N/T				
		j) 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;		N/T				
		k) a warning if surface temperatures can increase / decrease when exposed to external sources of heat or cold (e.g. sunlight, outdoor environment);		N/T				
		 a warning if the assistive product might disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems of shops, automatic doors, etc.); 		N/T				
		m) 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 high power sources);		N/T				
		n) 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 howto operatethe assistive product safely;		N/T				
		o) if the intended purpose of an assistive product cannot be met without a hazard due to moving parts such as sgueezing, a warning and instructions on how to operate the assistive product safely;		N/T				
		p) the level of resistance to ignition of materials and assemblies;		N/T				
24.2.2	V/I	q) information on the recycling of used batteries and other parts of the assistive product;		N/T				
		r) expected lifetime of the assistive product.		N/T				
		- It is recommended to include instructions on how to sotve simple problems for the ease of use.		N/T				
24.2.3	V/I	Service information						
		The service information shall contain all the pre-sale information, user information and instructions necessary for the maintenance, adjustment and repair of the assistive product		N/T				
	1	and for the replacement of parts. The service information shall contain all the pre-sale information and the user information.		N/T				
		The service information shall be sufficiently detailed concerning preventive inspection,		N/T				
		maintenance and calibration, including the frequency of such maintenance. The service information shall provide information for the safe performance of such routine maintenance necessary to ensure the continued safe use of the assistive product.		N/T				
		Additionalty, the service information shall identify 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.		N/T				
		⊕ [*] *	45					
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Require ments accordi ng to clause	Test method accordi ng to clause	Checked characteristics/assemblies/parameters	Real valu	Test result	Comments		
24.3	V/I	Labelling		N/T			
		- year of production for the product		N/T			
		- Detachabfe parts of an assistive product with a mass of more than 10 kilograms shall be marked with the actual mass on the part.		N/T			
		- Symbole for use in the labelling of medical devices shall be in accordance with EN 980		N/T			
25	V/I	Packaging			Note 3		

Pos. – positive; Neg – negative; N/T – not tested; N/A – not applicable; N/R – not required , N/O – not occurred , V/I. – visual inspection, Conf. – conformed.

TEST RESULTS according to PN-EN ISO 4210-2:2014-09							
Requirem ents according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments		
4.13		Pedals and pedal / crank drive system					
4.13.1	V/I., Measur.	Pedal tread	Conf.	Pos.			
4.13.2	V/I., Measur.	Pedal clearance	Conf.	Pos.	fig.5 + tab.11		
4.13.3	ISO 4210-8, cl.4.1, V/I,	Pedal – Static strength test	Conf.	Pos.	load 1500 N		
4.13.4	ISO 4210-8, cl.4.2, V/I,	Pedal – Impact test	Conf.	Pos.	drop weight 15kg from a height 400mm		
4.13.5	ISO 4210-8, cl.4.3, V/I,	Pedal – dynamic durability test	Conf.	Pos.	load pedals: from 60N to 120N, rotation speed: 30 rot./1 min. 20 000 cycles		

Pos. – positive; Neg – negative; N/T – not tested; N/A – not applicable; N/R – not required , N/O – not occurred , V/I.- visual inspection, Conf.- conformed.

- NOTE 1: The risk of corrosion that affects the safety of the users should be evaluated in the risk analysis.
- NOTE2: The product loaded statically with load 1.5 x user weight (150 kg) for a period of time 70 sec Test result: Positive.
 - The product was tested according to PN-EN ISO 4210-2:2014-09, clause 4.13.1, 4.13.2, 4.13.3, 4.13.4, 4.13.5.

Test result: Positive.

- NOTE 3: Assessment of package, clause 25 concerns risk of threats caused by improper protection against damage, fall or impurity during storage and transport to place of use
- NOTE 4: Conformity assessment of product according to standard requirements refer to the scope of mechanical tests ordered by client
- NOTE 5: During visual inspection before testing any visible defects that can have an effect on test results were not stated.
- NOTE 6: Sample/object for testing was delivered to the Laboratory by the Orderer.

CONCLUSIONS:

Testing object **conforming** with requirements of PN-EN 12182:2012, PN-EN ISO 4210-2:2014-09

