

TRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 29.12.2021

TEST REPORT NO. *CBC-263/2021*

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Subject of testing:

Bed lever

Classification according to

PN-EN ISO 9999:2017-02: 18 18 06

Number of specimens: 1

Type / Model:

Manufacturer:

Bed lever

REF.: 311815

SN.:

MOBILEX A/S

Grønlandsvei 5

DK - 8660 Skanderborg

Applicant:

A-Net s.c.

93-469 Łódź.

ul. Łaskowice 174

Kind of testing

Testing scope according to application of Client

Mechanical testing according to PN-EN 12182:2012;

EN 581-2:2015; EN 1022:2005, PN-EN 60601-2-52:2010

Date recived: 15.12.2021

Test started: 15.12.2021

Test finished: 29.12.2021

Approved by:

Special comments / enclosures:

Copyright © 2012 by Centre for Testing and Certification (applicable to report form)

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-263/2021 Page: 2 of 8 CHARACTERISTIC OF PRODUCT Name of product: Bed lever REF.: 311815 Mass of product: 3,3 kg Height of product: 547 mm Maximum load: 100 kg Length of product: 625 mm Maximum permissible user mass: 150 kg Width of product: 335 mm

PHOTO OF PRODUCT













Bed lever

≦150 kg ≤100 kg

CE MD II G

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TESTING

NORMATIVE REFERENCES	Applied
PN-EN 12182:2012 Technical aids for disabled persons – General requirements and test methods	YES
EN 581-1:2006 Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 1: General safety requirements.	NO
EN 581-2:2015 Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 2: Mechanical safety requirements and test methods for seating.	YES
EN 581-3:2007 Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 3: Mechanical safety requirements and test methods for tables.	NO
EN 1022:2005 Domestic furniture. Seating. Determination of stability.	YES
EN 1728:2012 Domestic furniture. Seating. Test methods for the determination of strength and durability.	YES
EN 1730:2002 Domestic furniture. Seating. Test methods for the determination of strength, durability and stability.	NO
PN-EN 60601-2-52:2010 (EN 60601-2-52:2010) Medical electrical equipment – Part 2-52: Particular requirements for basic safety and essential performance of medical beds.	YES

REMARK: During the visual inspection performed before testing, no manifest defects which may affect test results were detected

TESTS OF SEATINGS

		L	OF MECHANICAL TESTS ACCORD	DING T	OEN	581-2:2015
Requireme nts according to clause	Test method according to clause	C	hecked characteristics/assemblies/parameters	Real value	Test result	Comments
7.2	EN 1728 cl. 6.4		Seat static load and back static load test		N/A	Seat: 1600/750N - 10x10s(±2s)+ 1x 30min(±10s); Backrest: 410N 10x10s(±2s)+ 1x 30min(±10s)
7.2	EN 1728 cl. 6.5		Seat front edge static load test		N/A	Seat: 1300/750N - 10x 10s(±2s) + 1x 30min(±10s)
7.2	EN 1728 cl. 6.17		Combined seat and back durability test	-	N/A	25 000 cycles- Seat: 1000/ 750N , Backrest: 100Nm → (333N)
7.2	EN 1728 cl. 6.19		Durability test on seating with a multi-position back rest		N/A	only seats with adjustable rest
7.2	EN 1728 cl. 6.11		Arm rest static load test	Conf.	Pos.	vertical force 700 N
7.2	EN 1728 cl. 6.20		Arm rest durability test	Conf.	Pos.	10 000 x 400 N
7.2	EN 1728 cl. 6.15		Leg forward static load test		N/A	Seat: vertical force - 75kg, horizintal force 300N
7.2	EN 1728 cl. 6.16		Leg sideways static load test	-	N/A	Seat: vertical force - 1000N, horizintal force 300N x 10
7.2	EN 1728 cl. 6.24	7	Seat impact test		N/A	drop height – 180mm – 10 cycles (load 250N)
7.2	EN 1728 cl. 6.8	Table	Foot rest static test		N/A	10 x 1000N
EN 1022 cl. 6.1	EN 1022 cl. 6.2	I	Forward stability (all seatings)		N/A	vertical force - 600N, horizintal force 20N, 5s
EN 1022 cl. 6.1	EN 1022 cl. 6.3		Forward stability (seatings with footrest)		N/A	normar force 2011, 38
EN 1022 cl. 6.1	EN 1022 cl. 6.6		Rearward stability (all seatings with back)		N/A	Seat: vertical force - 600N, Backrest: horizintal force 109N,
EN 1022 cl. 6.1	EN 1022 cl. 6.4		Sideways stability (all seatings without arm rest)	-	N/A	vertical force - 600N, horizintal force 20N, 5s
EN 1022 cl. 6.1	EN 1022 cl. 6.5		Sideways stability (all seatings with arm rest)		N/A	Horizontal force: armrest – 20N Vertical force: seat – 250N, armrest – 350N
EN 1022 cl. 7.1	EN 1022 cl. 7.3		Stability of seatings which have variable geometry (canting seats)	_	N/A	
EN 1022 cl. 7.1	EN 1022 cl. 7.4		Stability of seatings which have variable geometry (rocking seat)		N/A	
EN 1022 cl. 7.1	EN 1022 cl. 7.5		Stability of seatings which have variable geometry (seats with extended footrest)		N/A	

NOTE: Number of users for a piece of furniture for sitting = 1. (EN 1176-1:2008, cl. A.3.3)



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Requiremen s according to clause Test meth according clause		Real value	Test result	Comments
201.9.8.3.3 V/I	Side rail strength and latch reliability (fig. 201.117)		N/A	30 000 cycles block/unblock
	Barrier latch test			
V/I	a – Fatique load on the barrier (E-F)		N/A	3000 cycles E-F 500N
V/I	b - Fatique load on the barrier (C-D)		N/A	3000 cycles C-D 500N
V/I	c - Fatique load on the barrier (A-B)		N/A	3000 cycles A-B A=500N, B=750N
V/I	d - Static load on the barrier		N/A	$1 \times A, B, C, D, E, F$
	Barrier test			
V/I	a - Fatique load on the barrier (E-F)	Conf.	Pos.	3000 cycles E-F 100 N
V/I	b - Fatique load on the barrier (C-D)	Conf.	Pos.	3000 cycles C-D 100 N
V/I	c - Fatique load on the barrier (A-B)	Conf.	Pos.	3000 cycles B B=100N
V/I	d - Static load on the barrier	Conf.	Pos.	1 x A,B,C,D,E,F 100 N



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TEST RESULTS	according to	PN-EN 12182	: 2012
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Requirement s according to clause	Test method according to clause		Checked eristics/assemblies/parameters	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	Risk analysis			N/T	
4.2	V/I	Expected cha	racteristics and technical documentation	Conf.	Pos.	
4.3	EN ISO 14155	Clinic assessi	nent		N/T	
4.4	V/I	Technical sur	port which can be dismantled	Conf.	Pos.	
4.5	V/I	Single use co	nnections	Conf.	Pos.	
4.6	V/I	Boundary val	ues of user weight	Conf.	Pos.	
4.7	V/I	Immobilising	means		N/A	
4.8	V/I, C5	impairment	the product for people with cognitive of the description in the manufacturer's		N/T	
		documentatio	n		N/T	
		Materials				
5.1	EN 60601-1-9	Recycling			N/T	
5.2	V/I, B 5.2	Flammability			N/A	
5.2.2	V/I	Upholstered p	arts, mattresses, bed bases and bedding		N/A	
5.2.3	V/I, EN 1021	Upholstered p	arts		N/A	
5.2.4	V/I, EN 597	Mattresses an	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 part	S		N/A	
5.3	EN ISO 10993-1 Annex. D	Biological con	nformity and toxicity		N/T	
5.4	V/I	Contaminants	and residues		N/A	
	V/I.,B.5.5.1		Cleaning	Conf.	Pos.	
	V/I.,B.5.5.1	logic Is an atior	Disinfection		N/A	-
5.5	V/I., EN ISO 22442-1 B.5.5.2	Microbiologica I infections and contamination	Animal tissue		N/A	
5.6	EN ISO 9227	Resistance to	corrosion		N/T	Note 5
6		Emitted soun	d and vibration			
6.1	EN ISO 3746 B6	Noise and vib			N/A	
6.2	EN ISO 3746	Sound levels a devices	and frequencies of audible warning		N/A	
6.3	EN ISO 3746	Feeedback			N/A	
7	EN 60601-1-2 7.2, 7.3, 7.4		ic compatibility		N/A	
8		Electrical safet	<u>-</u>		N/A	
9	V/I		age, leakage, and ingress of liquids		N/A	
10	V/I. Measur.	Surface temper	rature		N/A	f ≤ 41°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
11	V/I	Sterility			N/A	
12	V/I. Measur.	Safety of movi	ng parts	Conf.	Pos.	Note in service manual



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Requirement s according to clause	Test method according	to clause	Checked characteristics/assemblies/parameters	Test result	Opinion	Comments Note in service manual		
13	V/I. Me	asur.	Prevention of traps for parts of the human body	Conf.	Pos.			
14	V/]	[Folding and adjusting mechanisms	Conf.	Pos.	Not	e in service	manual
15	V/I. Me	asur.	. Carrying handles		N/A	Mass of product below 20 kg		
16	V/I. Me	asur	. Assistive products which support or suspend users	Conf.	Pos.		sted accord EN 581- EN 60601-2	ling to. 2,
17	V/I. Measur. Portable and mobile assistive products N/A							
18	V/I, B	18	Surfaces, corners, edges and protruding parts	Conf.	Pos.			
19	B 1	9	Hand held assistive products		N/A			
20	B 2	0	Small Parts	Conf.	Pos.			
21	V/I. Me		Stability		N/A			-
22	EN 606 B 22,		Forces in soft tissues of the human body		A ESTERNATION			
	V/I		Ergonomic principles	Conf.	Pos.	Than	equirement	s valata to
23	EN 61	10	Ergonomic principles		N/T		equiremeni 1e design pi	
Require ments accordi ng to clause	Test method accordin g to clause		Checked characteristics/assemblies/para	meters		Real valu e	Test result	Comments
24	V/I	Req	uirements for information supplied by the manufacturer					
24.1		Gen	eral				N/T	
24.2			ructions for use				N/T	
24.2.1	V/I		sale Information				N/T	
			information on how to obtain the user information in a form use by people with visual, reading orcognitive disabilities all information shall as far as possible be available in Pictogr		riate for		N/T N/T	
			a description of the intended use and the intended environme				$\frac{N/T}{N/T}$	-
			maintenance instructions, if applicable;	,			N/T	
		e)	if an assistive product is intended to be cleaned, a descr method and suitable cleaning materials, including precauti corrosion, if applicable;				N/T	
			if an assistive product is intended to be disinfected, a descrimethod and suitable materials, including any precautions necorrosion, if applicable;				N/T	
			the overall dimensions (width, length and height) of the assis expressed in millimetres, and its mass, expressed in kilogran for use and, if applicable, when it is folded or dismantled	ns, when it	is ready		N/T	
24.2.1	has any removab!e parts that has a mass which		the mass expressed in kilograms if the assistive product ca has any removable parts that has a mass which is heavier that	an 10 kg;			N/T	
			if the assistive product is supposed to be used in combinatio products, the manufacturer shall state to which products, and done in a safe way;	I how this c	an be		N/T	
			warning about dangerous combinations of devices (e.g. cus prevention of decubitus ulcers often only work on correct combinations of flame resistant and non-flame resistant n	seat surfac			N/T	
		k)	a list of accessories, detachable parts and materials that t has determined as being intended for use with the assistive	he manufa product			N/T	
			if a programmable controller is fitted, information on the programming, the competence required to carry out the preffects on performance	ne method ogramming	of and the		N/T	



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Require ments accordi ng to clause	Test method accordin g to clause	Checked characteristics/assemblies/parameters	Real valu e	Test result	Comme		
		m - operator control adjustments					
		n - whether and how the assistive product can be folded or dismantled to assist in					
		storage or transport			<u> </u>		
		o - instructions regarding transport of the assistive product (e.g. in a car or aeroplane)					
		p - measured sound power level					
	V/I	User information					
24.2.2		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			
		 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		N/T			
		and information on how adjustments or settings affect the assistive product			ļ		
		 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 gas accumulating in the charging area);		N/T			
		 i) instructions on dismantting and re-assembly of the assistive product or any removable parts; 		N/T			
		 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			
		 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 the assistive product safely; 		N/T			
	94	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		310			
		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 and for the replacement of parts.		N/T			
		The service information shall contain all the pre-sale information and the user information.		N/T			



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Require ments accordi ng to clause	Test method accordin g to clause	Real valu e	Test result	Comme			
		The service information shall be sufficiently detailed concerning preventive inspection, maintenance and calibration, including the frequency of such maintenance.		N/T			
		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			
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		N/T	Note 1		

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: 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 2: Conformity assessment of product according to standard requirements refer to the scope of mechanical tests ordered by client
- NOTE 3: During visual inspection before testing any visible defects that can have an effect on test results were not stated.
- NOTE 4: Sample/object for testing was delivered to the Laboratory by the Orderer.
- NOTE 5: The risk of corrosion that affects the safety of the users should be evaluated in the risk analysis.

CONCLUSIONS:

Testing object **conforming** with requirements of: EN 581-2:2015 EN 1022:2005

PN-EN 60601-2-52:2010

PN-EN 12182:2012

