

NTRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 16.02.2016

TEST REPORT NO. *CBC-137/2015*

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Subject of testing:

Bathroom chair with backrest

Classification according to

PN-EN ISO 9999:2011:09 33 03

Type / Model:

Shower stool

Item no./Art.Nr: 302072

Number of specimens: 1

302072+302075

SN:

D305B15060

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: EN 581-2:2009; EN 1022:2005; ISO 7176-1:1999

Test started: 1.12.2015

Test finished: 16.02.2016

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.

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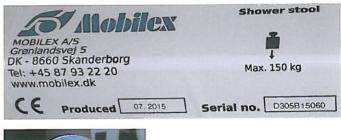


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CHARACTERIS	STIC OF PRODUCT			
Name of product: SHOWER STOOL	Item no./Art. Nr: 302072, 302072+302075			
Mass of product: 3,575 kg, 4,910 kg	Maximum permissible user mass: 150 kg			
Width of the product: 572 mm	Height: 606-772mm / 790-958mm			
Height of armrests of the seat: 190mm	Length: 520-600 mm			
Diameter of the rotation: 725mm – 780mm	Length of seat: 334 mm			
Diameter of tip: 35 mm	Width of seat: 453 mm			
РНОТО (OF PRODUCT			













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TESTING

NORMATIVE REFERENCES					
PN-EN 12182:2012 Technical aids for disabled persons – General requirements and test methods					
EN 581-1:2006 Outdoor furniture. Seating and tables for camping, domestic and contract use. Part 1: General safety requirements.	NO				
EN 581-2:2009 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 1728:2000 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				
ISO 7176-1:1999 Wheelchairs – Determination of static stability	YES				

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

TESTS OF SEATINGS

according	method		Checked	Real	Test	Comments
to clause	according to clause		characteristics/assemblies/parameters	value	result	
6.2	EN 1728 cl. 6.2.1		Seat and back static load test	Conf.	Pos.	Seat: 1600N - 10x10s(±2s) + 1x 30min(±10s); Backrest: 410N 10x10s(±2s) + 1x 30min(±10s)
6.2	EN 1728 cl. 6.2.2		Seat front edge static load test	Conf.	Pos.	Seat: $1300N - 10x \ 10s(\pm 2s) + 1x$ $30min(\pm 10s)$
6.2	EN 1728 cl. 6.7		Seat and back fatigue test for seating	Conf.	Pos.	25 000 cycles - Seat:1000N, Backrest: 100Nm → (340N)
6.2	EN 581-2 Aneks A		Fatigue test on back locking mechanism		N/A	only seats with adjustable rest
6.2	EN 1728 cl. 6.6		Arm rest downwards static load test	Conf.	Pos.	700 N
6.2	EN 1728 cl. 6.10		Arm rest fatigue test	Conf.	Pos.	10 000 x 400 N
6.2	EN 1728 cl. 6.12		Leg forward static load test	Conf.	Pos.	Seat: vertical force - 75kg, horizintal force 300N
6.2	EN 1728 cl. 6.13		Leg sideways static load test	Conf.	Pos.	Seat: vertical force - 75kg, horizintal force 300N
6.2	EN 1728 cl. 6.15		Seat impact test	Conf.	Pos.	drop height – 180mm – 10 cycles (load 250N)
6.2	EN 1728 cl. 6.4		Footrest, foot brace and foot rail static test		N/A	
EN 1022 cl. 6.1	EN 1022 cl. 6.2	Table 1	Forward stability (all seatings)	Conf.	Pos.	vertical force - 600N, horizintal force 20N, 5s (fig. 1)
EN 1022 cl. 6.1	EN 1022 cl. 6.3	Ta	Forward stability (seatings with footrest)		N/A	
EN 1022 cl. 6.1	EN 1022 cl. 6.6		Rearward stability (all seatings with back)	Conf.	Pos.	Seat: vertical force - 600N, Backrest: horizintal force 109N, (fig.2)
EN 1022 cl. 6.1	EN 1022 cl. 6.4		Sideways stability (all seatings without arm rest)		N/A	
EN 1022 cl. 6.1	EN 1022 cl. 6.5		Sideways stability (all seatings with arm rest)	Conf.	Pos.	Horizontal force: armrest - 20N Vertical force: seat - 250N, armrest - 350N (fig.3)
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	



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Requireme nts according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
7.1	V/I	Content of service manual:				
		Required mention: "Important, retain for future reference: read carefully"		N/T	Character's dimension not less than 5mm	
		Name and address of the producer or supplier		N/T		
		Information regarding maintenance		N/T		
		Conditions of use		N/T	camping, domestic or contract	
		User manual in language of the country in which the table will be marketed		N/T		
7.2	V/I	Presence of a pictogram (fig. 1) in the case of mobile loungers not intended to be lifted or displaced under load		N/A		

		TEST RI	ESULTS according to PN-EN	12182 : 201	12	
Requirement s according to clause	Test method according to clause	Checked characteristics/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 1441	Risk analysis			N/T	
4.2	V/I	Expected char	acteristics and technical documentation	Conf.	Pos.	
4.3	EN ISO 14155	Clinic assessm	ent		N/T	
4.4	V/I	Technical supp	port which can be dismantled	Conf.	Pos.	
4.5	V/I	Single use con	nections	Conf.	Pos.	
4.6	V/I	Boundary valu	es of user weight	Conf.	Pos.	
4.7	V/I	Immobilising	means		N/A	
4.0	V/I, C5	impairment	he product for people with cognitive		N/T	
4.8		The presence of documentation	of the description in the manufacturer's		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 pa	arts, mattresses, bed bases and bedding		N/A	
5.2.3	V/I, EN 1021	Upholstered pa	arts		N/A	
5.2.4	V/I, EN 597	Mattresses and	I 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			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	
	V/I.,B.5.5.1	ica nd on	Cleaning	Conf.	Pos.	
	V/I.,B.5.5.1	olog ons a inatic	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	2
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	nd frequencies of audible warning devices		N/A	



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Require ments accordi ng to clause	Test me accordi clau	ing to	Checked characteristics/assemblies/parameters	Real value	Test result		Comi	ments		
6.3	EN ISO	3746	Feeedback		N/A	1				
7	EN 6060		Electromagnetic compatibility		N/A					
8	7.2, 7.3	5, 7.4	Electrical safety		N/A	+	W.			
9	V/	I	Overflow, spillage, leakage, and ingress of liquids		N/A	+				
10	V/I. Measur.		Surface temperature		N/A	heat of	direct sold EN 12182, equirement s with inser	loes not concern rradiation - Pl clause 10a concerns only nsitiveness of sk l heat) - PN-EN		
11	V/	I	Sterility		N/A					
12	V/I. Me		Safety of moving parts	Conf.	Pos.	N	ote in serv	rice manual		
13	V/I. Me	asur.	Prevention of traps for parts of the human body	Conf.	Pos.	-				
14	V/	I	Folding and adjusting mechanisms	Conf.	Pos.					
15	V/I. Measur.		Carrying handles		N/A		Mass of below			
16	V/I. Me	easur.	Assistive products which support or suspend users	Conf.	Pos.	tested according to. NOTE 1		g to. EN 581-2		
17	V/I. Me	asur.	Portable and mobile assistive products	Conf.	Pos.					
18	V/I, B	3 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 EN 606		Stability	Conf.	Pos.	testea	accordin	g to. EN 581-2		
22	В 22,		Forces in soft tissues of the human body	Conf.	Pos.					
23	V/I EN 61		Ergonomic principles		N/T	The re	The requirements relate to the design process			
Require ments accordi ng to clause	Test method accordin g to clause		Checked characteristics/assemblies/para	ameters		Real value	Test result	Comments		
24	V/I		irements for information supplied by the manufactu	rer						
24.1		Gene					N/T			
24.2	3.7/T		uctions for use				N/T			
24.2.1	V/I	a) ir	ale Information Information on how to obtain the user information in a four use by people with visual, eading orcognitive disabilities	ormat appro	priate		N/T N/T			
			ll information shall as far as possible be available in Pict	ogram			N/T			
		c) a	description of the intended use and the intended environ	ment;			N/T			
			naintenance instructions, if applicable;				N/T			
		n a	f an assistive product is intended to be cleaned, a des nethod and suitable cleaning materials, including preca void corrosion, if applicable;	autions need	ed to		N/T			
		n c	Fan assistive product is intended to be disinfected, a denethod and suitable materials, including any precautions orrosion, if applicable;	s needed to a	void		N/T			
		g) the	ne overall dimensions (width, length and height) of the as expressed in millimetres, and its mass, expressed in kilograms, when it is ready for use and when it is folded or dismantled				N/T			



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24.2.1	V/I h) the mass expressed in kilograms if the assistive product can be dismantled or has any removable parts that has a mass which is heavier than 10 kg;				N/T
			e assistive product is supposed to be used in combination with other products, the facturer shall state to which products, and how this can be done in a safe way;		N/T
		j) war of d	ning about dangerous combinations of devices (e.g. cushions for the prevention ecubitus ulcers often only work on correct seat surface) and combinations of the resistant and non-flame resistant material;	n	N/T
		k) a lis	st of accessories, detachable parts and materials that the manufacturer has ermined as being intended for use with the assistive product		N/T
		l) if a prog	programmable controller is fitted, information on the method of gramming, the competence required to carry out the programming and the cts on performance		N/T
			rator control adjustments		N/T
			ther and how the assistive product can be folded or dismantled to assist in stora cansport	ge	N/T
			ructions regarding transport of the assistive product (e.g. in a car or aeroplane)		N/T
			sured sound power level		N/T
4.2.2	V/I	User inf	ormation		
		User info Informati applicab	formation shall be provided by the manufacturer with each assistive product. tion shall contain all pre-sale warnings and informations and the following as all for each assistive product:		N/T
			location and the type of identification number/word on the assistive product l be given for the unique identification number of the assistive product		N/T
14 44 10 10 10 10		,	intended user		N/T
		info	adjustment or settings required before the assistive product can be used and rmation on how adjustments or settings affect the assistive product		N/T
		1 .	rmation on adjustment possibilities and the competence required to carry out these stments		N/T
			ructions on operation of all controls		N/T
			battery type and nominał vottage		N/T
		-	ructions for battery maintenance		N/T
		pote	ructions for operating the battery charger, including warnings regarding any ential safety hazards (e.g. a possibility of gas accumulating in the charging area):	;	N/T
		rem	ructions on dismantting and re-assembly of the assistive product or any ovable parts;		N/T
		and	positions of points where the component parts can be gripped for safe moving handling and/or a method for handling during dismantling, assembly or carrying	 5,	N/T
		sour	arning if surface temperatures can increase / decrease when exposed to externa rees of heat or cold (e.g. sunlight, outdoor environment);	1	N/T
		envi	arning if the assistive product might disturb the operation of devices in its ironment that emit electromagnetic fields (e.g. alarm systems of shops, automatrs, etc.);	tic	N/T
		elec	arning if the performance of the assistive product can be influenced by etromagnetic fields {e.g. those emitted by portable telephones, electricity erators or high power sources);		N/T
		n) if th {e.g	ne intended purpose of an assistive product cannot be met without a hazard g, holes, V-shaped opening), a warning and instructions on howto operatethe stive product safely;		N/T
		o) if th mov	the intended purpose of an assistive product cannot be met without a hazard due to ying parts such as sgueezing, a warning and instructions on how to operate the stive product safely;		N/T
	30, 3000	p) the	level of resistance to ignition of materials and assemblies;		N/T
4.2.2	V/I	12	rmation on the recycling of used batteries and other parts of the assistive produc	ct;	N/T
			ected lifetime of the assistive product.		N/T
		- It is red of use.	commended to include instructions on how to sotve simple problems for the ease		N/T



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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 and for the replacement of parts.		N/T	
		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, 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 2

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

Require ments accordin g to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Test result	Opinion	Comments
PN-EN 12183	9.	Static stability of product facing up to the slope (backwards)	17,0 °	N/R	When static stability
12103	10.	Static stability of product positioned backwards up to the slope	18,0°	N/R	backwards is below 10° anti-overturn supports
	12.	Static stability of product positioned sideward up to the slope *)	11,00	N/R	are required

*) With the slope of the ramp above $11,0^0$ leg side are damaged

N/R - not required





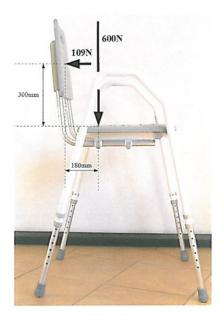




Fig.1

Fig.2

Fig.3

- NOTE 1: Static load test $-150kg \times 1.5 = 225kg$ (70 sec). Test result: Positive
- NOTE 2: 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 3: Conformity assessment of product according to standard requirements refer to the scope of mechanical tests ordered by client
- NOTE 4: During visual inspection before testing any visible defects that can have an effect on test results were not stated.
- NOTE 5: Sample/object for testing was delivered to the Laboratory by the Orderer.

CONCLUSIONS:

Testing object conforming with requirements of:

EN 581-2:2009

EN 1022:2005

PN-EN 12182:2012

END -

