

CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 7.04.2020

TEST REPORT NO. *CBC-044/2020*

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Subject of testing:

Bathroom chair with backrest

Classification according to

PN-EN ISO 9999:2017-02:09 33 03

Type / Model:

Shower stool

Item no./Art.Nr: 302078

302079

Manufacturer:

MOBILEX A/S

Grønlandsvej 5

DK - 8660 Skanderborg

Number of specimens: 1

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 581-2:2015; EN 1022:2005; ISO 7176-1:2014

Test started: 30.03.2020

Test finished: 7.04.2020

Approved by:

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.



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CHARACTERIS	STIC OF PRODUCT
Name of product: SHOWER STOOL	Item no./Art. Nr: 302078, 302079
Mass of product: 3,52 kg, 4,72 kg	Maximum permissible user mass: 200 kg
Width of the product: 584 mm	Height: 606-774mm / 781-949mm
Height of armrests of the seat: 193mm	Length: 520-605 / 550 - 605 mm
Diameter of the rotation: 775mm – 842mm	Length of seat: 334 mm
Diameter of tip: 35 mm	Width of seat: 500 mm

PHOTO OF PRODUCT





Shower stool

Item nr. 302078..79 HMI nr. 62407

Mobilex A/S Grønlandsvej 5 DK-8660 Skanderborg Tel. +45 8793 2220 www.mobilex.dk

Max. load 200 kg Max. width 62,5 cm



CE Produced

Serial nr.









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TESTING

NORMATIVE REFERENCES PN-EN 12182:2012 Technical aids for disabled persons — General requirements and test methods					
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				
ISO 7176-1:2014 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

RESULT OF MECHANICAL TESTS ACCORDING TO EN 581-2:2015							
Requireme nts according to clause	Test method according to clause	Cl	necked characteristics/assemblies/parameters	Real value	Test result	Comments	
7.2	EN 1728 cl. 6.4		Seat static load and back static load test	Conf.	Pos.	Seat: 1600N - 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	Conf.	Pos.	Seat: $1300N - 10x \ 10s(\pm 2s) + 1x$ $30min(\pm 10s)$	
7.2	EN 1728 cl. 6.17		Combined seat and back durability test	Conf.	Pos.	25 000 cycles- Seat: 1000N, 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	Conf.	Pos.	Seat: vertical force - 1000N, horizintal force 300N	
7.2	EN 1728 cl. 6.16		Leg sideways static load test	Conf.	Pos.	Seat: vertical force - 1000N, horizintal force 300N x 10	
7.2	EN 1728 cl. 6.24	7	Seat impact test	Conf.	Pos.	drop height – 180mm – 10 cycles (load 250N)	
7.2	EN 1728 cl. 6.8	Table	Foot rest static test		N/A		
EN 1022 cl. 6.1	EN 1022 cl. 6.2		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		Forward stability (seatings with footrest)		N/A		
EN 1022 cl. 6.1	EN 1022 cl. 6.6		Rearward stability (all seatings with back) (fig.2)	Conf.	Pos.	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		
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		

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



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Requireme nts according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
8.1	V/I	Content of service manual:			
		Required mention: "Important, retain for future reference: read carefully"	Conf.	Pos.	Character's dimension not less than 5mm
		Name and address of the producer or supplier	Conf.	Pos.	
		Information regarding maintenance	Conf.	Pos.	
		Conditions of use	Conf.	Pos.	camping, domestic or contract
		User manual in language of the country in which the table will be marketed	Conf.	Pos.	
		If the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.		N/A	
8.2	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	

NOTE: Due to the large mass of the user, tests according to EN 581-2:2015 were repeated, increasing the test load proportionally, adapting it to the user's mass of 200kg.

Requireme nts according to clause	Test method according to clause		OF MECHANICAL TESTS ACCORD hecked characteristics/assemblies/parameters	Real value	Test result	Comments
7.2	EN 1728 cl. 6.4		Seat static load and back static load test	Conf.	Pos.	Seat: 2880N - 10x10s(±2s)+ 1x 30min(±10s); Backrest: 738N 10x10s(±2s)+ 1x 30min(±10s)
7.2	EN 1728 cl. 6.5		Seat front edge static load test	Conf.	Pos.	Seat: $2340N - 10x \ 10s(\pm 2s) + 1x$ $30min(\pm 10s)$
7.2	EN 1728 cl. 6.17		Combined seat and back durability test	Conf.	Pos.	25 000 cycles- Seat: 1800N, Backrest: 180Nm → (599N)
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 1260 N
7.2	EN 1728 cl. 6.20		Arm rest durability test	Conf.	Pos.	10 000 x 720 N
7.2	EN 1728 cl. 6.15		Leg forward static load test	Conf.	Pos.	Seat: vertical force - 1800N, horizintal force 540N
7.2	EN 1728 cl. 6.16		Leg sideways static load test	Conf.	Pos.	Seat: vertical force - 1800N, horizintal force 540N x 10
7.2	EN 1728 cl. 6.24	2	Seat impact test	Conf.	Pos.	drop height – 180mm – 10 cycles (load 250N)
7.2	EN 1728 cl. 6.8	Table 2	Foot rest static test		N/A	
EN 1022 cl. 6.1	EN 1022 cl. 6.2	ζ,	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		Forward stability (seatings with footrest)		N/A	
EN 1022 cl. 6.1	EN 1022 cl. 6.6		Rearward stability (all seatings with back) (fig.2)	Conf.	Pos.	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	
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	

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



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Requirement s according to clause	Checked to clause to clause to clause to clause characteristics/assemblie		Checked	Tes	32 : 201	Opinion	Comments		
Requi s acc	med acco to cl	charact	eristics/assemblies/parameters			Opi			
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			
	V/I, C5	the contract of the second	he product for people with cognitive			N/T			
4.8		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		arts, mattresses, bed bases and bedding			N/A			
5.2.3	V/I, EN 1021	Upholstered p				N/A			
5.2.4	V/I, EN 597	Mattresses and	l bed bases			N/A			
5.2.5	V/I. EN ISO 12952	Bedding							
5.2.6	V/I. EN 60695-11-10 EN ISO 10993-1	Moulded parts	formity and toxicity			N/A			
5.3	Annex. D					N/T			
5.4	V/I	Contaminants	and residues			N/A			
	V/I.,B.5.5.1	gica s and ition	Cleaning	(Conf.	Pos.			
	V/I.,B.5.5.1	olog ons a inati	Disinfection			N/A			
5.5	V/I., EN ISO 22442-1 B.5.5.2	Microbiolog	Animal tissue			N/A			
5.6	EN ISO 9227	Resistance to	corrosion			N/T			
6			d and vibration						
6.1	EN ISO 3746 B6	Noise and vib							
6.2	EN ISO 3746	Sound levels a	nd frequencies of audible warning devices					N/A	
6.3	EN ISO 3746	Feeedback			N/A				
7	EN 60601-1-2 7.2, 7.3, 7.4	Electromagnet	ic compatibility		N/A				
8		Electrical safet	у		N/A				
9	V/I	Overflow, spil	lage, leakage, and ingress of liquids		N/A				
10 V/I. Measur.		Surface temper	rature		N/A	heat of di EN requ persons w (who do	$t^0 \le 41^{\circ}C$ rement does not concern rect solar radiation - PN [12182, clause 10a sirement concerns only with insensitiveness of ski to not feel heat) - PN-EN [2182, clause 10d]		



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Require ments accordi ng to clause	Test me accordi clau	ng to	Checked characteristics/assemblies/parameters	Real value	Test result		Comments			
11	V/	[N/A					
12	V/I. Me	asur.	Safety of moving parts	Conf.	Pos.	Ne	ote in ser	vice manı	ual	
13	V/I. Me	asur.	Prevention of traps for parts of the human body	Conf.	Pos.					
14	V/	V/I Folding and adjusting mechanisms Conf. Pos.								
15	V/I. Me	asur.	Carrying handles		N/A		below	product 20 kg		
16	V/I. Me	asur.	Assistive products which support or suspend users	Conf.	Pos.	testea	l accordii NO:	ig to. EN TE 1	581-2	
17	V/I. Me	asur.	Portable and mobile assistive products	Conf.	Pos.					
18	V/I, E	18	Surfaces, corners, edges and protruding parts	Conf.	Pos.					
19	B 1	9	Hand held assistive products		N/A			11.05-100-101		
20	B 2	0	Small Parts	Conf.	Pos.					
21	V/I. Me EN 606		Stability	Conf.	Pos.	testea	l accordii	ig to. EN	581-2	
22	B 22,		Forces in soft tissues of the human body	Conf.	Pos.					
23	V/I EN 61		Ergonomic principles		N/T	The r	equireme design	nts relate process	to the	
24	V/I	Requ	irements for information supplied by the manufactu	rer				T		
24.1		Gene					N/T			
24.2		Instru	uctions for use				N/T N/T			
24.2.1		 a) information on how to obtain the user information in a format appropriate for use by people with visual, reading orcognitive disabilities b) all information shall as far as possible be available in Pictogram c) a description of the intended use and the intended environment; d) maintenance instructions, if applicable; 				 	N/T			
		f) it n c g) the e n	f an assistive product is intended to be cleaned, a denethod and suitable cleaning materials, including precivoid corrosion, if applicable; f an assistive product is intended to be disinfected, a denethod and suitable materials, including any precaution orrosion, if applicable; he overall dimensions (width, length and height) of the appreciate in millimetres, and its mass, expressed in kilograms, when it is ready for use an	escription o s needed to	f the avoid		N/T N/T			
24.2.1		h) the	when it is folded or dismantled e mass expressed in kilograms if the assistive product of y removable parts that has a mass which is heavier than	10 kg;				N/T		
		i) if t ma	he assistive product is supposed to be used in combination unufacturer shall state to which products, and how this c	an be done i	er product n a safe w	ay;		N/T		
		of	rning about dangerous combinations of devices (e.g. c decubitus ulcers often only work on correct seat surfa me resistant and non-flame resistant material;	cushions for ace) and cor	the preve nbination	ntion s of		N/T		
		k) a l det	ist of accessories, detachable parts and materials that termined as being intended for use with the assistive pr	oduct		as		N/T		
		pro	a programmable controller is fitted, information on ogramming, the competence required to carry out the extra on performance					N/T		
		m) op	erator control adjustments					N/T		
		or	ether and how the assistive product can be folded or distransport					N/T		
	1 [o) ins	structions regarding transport of the assistive product (e.	g. in a car o	r aeroplan	e)		N/T	<u> </u>	
	1 H	p) me	easured sound power level					N/T		



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4.2.2	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			
İ				N/T			
		h) instructions for operating the battery charger, including warnings regarding any		N/T			
		potential safety hazards (e.g. a possibility of gas accumulating in the charging area); i) instructions on dismantting and re-assembly of the assistive product or any		N/T			
		removable parts; 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			
		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		N/T			
		assistive product safely; p) the level of resistance to ignition of materials and assemblies;		N/T	1		
	NT/N	1 C 11 W 1 - they make of the aggistive product:		N/T			
24.2.2	V/I			N/T			
		r) expected lifetime of the assistive product. - It is recommended to include instructions on how to solve simple problems for the ease of use.		N/T			
24.2.3	V/I	Service information					
24.2.3	7/1	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			
		and for the replacement of parts. The service information shall contain all the pre-sale information and the user information.		N/T	W		
		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			
24.3	V/I	Labelling		N/T			
₽ ₹.J	¥/1	- year of production for the product		N/T			
		 Detachable 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	Mr ·		
25	V/I	Packaging Neg – negative: N/T – not tested: N/A – not applicable; N/R – not required, N/O – not occ		N/T	Note		

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.

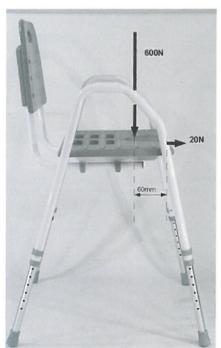


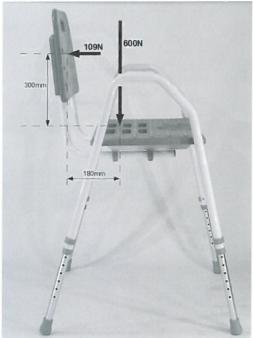
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		TEST RESULTS according to ISO 71	76-1:2014		
Require ments accordin g to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Test result	Opinion	Comments
PN-EN 12183	9.	Static stability of product facing up to the slope (backwards)	17,0 °	N/R	
	8.	Static stability of product positioned backwards up to the slope	17,0 °	N/R	
	10.	Static stability of product positioned sideward up to the slope *)	11,00	N/R	

*) With the slope of the ramp above $11,0^0$ leg side are damaged NOTE: The product is used on a plane without inclination.





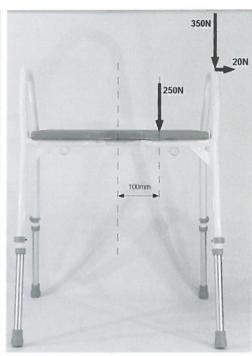


Fig.1

Fig.2

Fig.3

- NOTE 1: Static load test $-200kg \times 1.5 = 300kg (70 \text{ sec})$. 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.
- NOTE 6: Additional test was performed according to the standard PN-EN ISO 11199-1:2004, cl. 5.5. The front leg end (1 item) was loaded with a 300N (30kg) load in the backard direction. The product is not damaged. Positive test result.
- NOTE 7:Additional test performed. The seat was loaded with 5000N (500kg) vertically downwards. The product is not damaged. Positive test result.

CONCLUSIONS:

Testing object conforming with requirements of:

EN 581-2:2015

EN 1022:2005

PN-EN 12182:2012

- END -

