



CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST
Mechanical Laboratory

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Date 22.03.2016

TEST REPORT NO. CBC-066/2016

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Subject of testing:	<i>Walking aids with built-in handgrips and three or more legs of which two or more are having wheels, which provide support whilst walking</i>	Classification according to PN-EN ISO 9999:2011 : 12 06 06
Type / Model:	LEOPARD	Nr kat.: -- Art. Nr.: 312301 SN: 0612
Manufacturer:	MOBILEX A/S Grønlandsvej 5 DK – 8660 Skanderborg	Number of specimens: 1
Applicant:	A-Net s.c. 93-469 Łódź, ul. Łaskowice 174	
Kind of testing	Mechanical testing for conformity with PN-EN ISO 11199-2 : 2005	
Test started:	18.03.2016	
Test finished:	22.03.2016	

Approved by:

DYREKTOR


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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CHARACTERISTIC OF PRODUCT

Name : <i>LEOPARD</i>	Dimension of rollator: --
Nr. kat: <i>0612</i>	Product code: <i>312301</i>
Maximum permissible user mass: <i>150 kg</i>	Mass of rollator: <i>7,78 kg</i>

Description		Comments	
Elements/parameters/materials/dimensions			
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	490 mm	
	Angle between of handgrip axis and direction of movement (α)	0°	
	Height of rollator (dimension 6)	770 mm	min.
		1020 mm	max.
	Width of rollator (dimension 5)	585 mm	
	Turning width (dimension 1)	825 mm	
	Length of rollator (dimension 4)	675 mm	
Dimensions of folded rollator (mm)		792 x 660 x 244	
Fig. 3	Handgrip - diameter	32 mm	Anatomical handgrip
	Handgrip - length	100 mm	
Wheels of rollator	Front wheels - quantity	2	castor wheels
	Front wheels - diameter	202 mm	
	Front wheels - width	35 mm	
	Front wheels - brake	none	
	Rear wheels - quantity	2	
	Rear wheels - diameter	202 mm	
	Rear wheels - width	35 mm	
	Rear wheels - brake	Included	
Tip	Diameter		
	Material	Not any	
	Colour		
Material of rollator (fig. 1)	Front legs	Aluminum,	
	Bracing member (no. 8)	Steel,	
	Rear legs	Hard plastic,	
	Height adjusting device (no. 4)	Bolts, nuts	
	Handgrip (no 5), Brake elements	Hard plastic	



Mobilex Leopard rollator
For outdoor and indoor use

MOBILEX A/S Max. 150kg
Grønlandsvej 5
DK - 8660 Skanderborg Max. width = 60cm
Tel: +45 87 93 22 20 Max. load in basket = 5 kg
www.mobilex.dk

CE Produced 2015 11 Serial no. 0612



RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-2:2005

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters		Real value	Test result	Comments	
4.1	Measur.	Manoeuvrability		\varnothing 202,5 mm width 35mm Conf.	Pos.	\varnothing front wheels ≥ 75 mm outdoor intended rollator: \varnothing front wheels ≥ 180 mm width of wheels ≥ 28 mm	
4.2	5.3	Forward-direction stability		17,5 ⁰ Conf.	Pos.	Stability required $\geq 10^\circ$	
4.2	5.4	Backward-direction stability		9,5 ⁰ Conf.	Pos.	Stability required $\geq 7^\circ$	
4.2	5.5	Sideway-direction stability		4,3 ⁰ Conf.	Pos.	Stability required $\geq 3,5^\circ$	
4.2	5.6	Stability – with loaded basket, bag (5kg), drip, oxygen cylinder	forwards	16,0 ⁰ Conf.	Pos.	Stability required $\geq 10^\circ$	
			backwards	15,0 ⁰ Conf.	Pos.	Stability required $\geq 7^\circ$	
			side	6,0 ⁰ Conf.	Pos.	Stability required $\geq 3,5^\circ$	
4.3	V/I	Brakes	Servicing facility during rollator motion with more than 2 wheels		Conf.	Pos.	
	V/I		Parking brakes in rollator with more than 2 wheels and resting seat or intended for outdoor use		Conf.	Pos.	
	5.7.1.1		Brake grip distance (fig. 4, dimension 1)		65 mm Conf.	Pos.	≤ 75 mm
	5.7.1		Running brake effectiveness		Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute
	Measur.		Force to set parking brake		20N Conf.	Pos.	≤ 60 N
	Measur.		Force to release parking brake		14N Conf.	Pos.	≤ 40 N
	5.7.2		Parking brake effectiveness		Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute
	V/I		Possibility to compensate brake wear		Conf.	Pos.	
V/I	Brake not adversely affected by folding, unfolding or adjusting actions of rollator		Conf.	Pos.			
4.4	Measur. V/I	Handgrip		32 mm Conf.	Pos.	Width of handgrip ≥ 20 mm and ≤ 50 mm	
4.5	Measur. V/I	Leg section and tip		--	N/A	\varnothing tip ≥ 35 mm (tested rollator is equipped in four wheels)	
4.6	5.10	Resting seat – static loading durability		Conf.	Pos.	1 minute under load 1,2 x user's weight $\pm 2\%$ (180kg)	
4.7	5.12	Mechanical durability	Fatigue test		Conf.	Pos.	200 000 cycles with load. 120kg $\pm 2\%$, f=1Hz
4.7	5.11		Static loading test		Conf.	Pos.	loading 180kg $\pm 2\%$, 5sek. NOTE 1
4.8	V/I	Adjusting devices		Conf.	Pos.		
4.9	5.14	Folding mechanism		Conf.	Pos.		
4.11	ISO 10993-1	Materials and finish	Biocompatibility of material with human body		--	N/T	
	V/I		Free of discolouring of skin or clothing in contact with rollator materials		Conf.	Pos.	
	V/I		Burrs, shar edges, projections		Conf.	Pos.	
Marking and labelling of product							
6.2	V/I	a) Maximum user mass		Included	Pos.		
		b) Maximum safe working load (SWL) to be marked on accessories		Included	Pos.		
		c) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable		--	N/A		
		d) Manufacturer's name or trade name and address		Included	Pos.		
		e) Manufacturer's model identification name and/or number		Included	Pos.		
		f) Month and year of manufacture		Included	Pos.		
		g) Maximum extension of the height adjustment, marked on the adjusting members		Included	Pos.		
		h) Maximum width of the rollator		Included	Pos.		
		i) Rollator intended for outdoor/indoor use		Included	Pos.		
4.10	V/I	Warning showing allowed angle between handle axis and direction of movement or physical stop of angle adjusting		--	N/A		

Contents of user manual and/or assembly manual or clear and indelible marking of product

6.3	V/I	a) Maximum rollator height	Included	Pos.	
		b) Minimum rollator height	Included	Pos.	
		c) maintenance and cleaning instructions, including a description of the method and suitable cleaning agents and any precautions needed to avoid corrosion and/or ageing of the materials used in construction of the rollator	Included	Pos.	
		d) Instructions for assembly, adjustment of all kinds, folding and unfolding	Included	Pos.	
		e) Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182, Clauses 12 and 13, for guidance)	Included	Pos.	
		f) Maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.	Included	Pos.	
4.10	V/I	Warning in user manual on consequences of such an adjustment of angle between handle longitudinal axis and direction of movement outside allowed value (when handles are adjustable aside).	--	N/A	

TEST CONDITIONS

Ambient temperature	19°C	Required temperature 21°C ±5°C
Relative humidity of air:	55 %	Not required
<i>Comments:</i>		
All tests performed with maximum height adjustment of rollator.		
All tests performed in the least stable position of self-adjusting wheels.		
Tests performed with handles positioned at their maximum (allowed) angle to the direction of motion (when adjustment is possible).		
Sequence of tests: stability test, static loading test, fatigue test.		
One rollator was tested.		
During visual inspection before testing any visible defects that could have influence on test results were not stated.		

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: Deformation – 30 mm, elastic deformation - 29 mm, permanent deformation – 1 mm.

CONCLUSIONS:

Testing object **conforms** with requirements of PN-EN ISO 11199-2 : 2005 in scope of mechanical testing ordered by client, excluding biocompatibility tests of material with human body according to PN-EN ISO 10993-1:2010

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