



# CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

## Mechanical Laboratory

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Date 28.06.2024

### TEST REPORT NO. **CBC-066/2024**

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<b>Subject of testing:</b>	<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>	<b>Classification according to</b> PN-EN ISO 9999:2017-02 : 12 06 06
<b>Type / Model:</b>	<i>Panda Royal rollator</i>	<b>REF:</b> 312602 <b>SN:</b> 0003
<b>Manufacturer:</b>	<i>MOBILEX A/S Grønlandsvej 5 DK – 8660 Skanderborg</i>	<b>Number of specimens:</b> 1
<b>Applicant:</b>	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice174</i>	
<b>Kind of testing</b>	<i>Mechanical testing for conformity with EN ISO 11199-2 : 2021</i>	
<b>Test started:</b>	24.06.2024	
<b>Test finished:</b>	28.06.2024	

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.

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



**CHARACTERISTIC OF PRODUCT**

Name : *Panda Royal rollator*

Dimension of rollator: --

REF: 312602

SN: 0003

Maximum permissible user mass: 150 kg

Mass of rollator: 8,4 kg

**Description**

**PHOTO OF PRODUCT**

Elements/parameters/materials/dimensions		Comments	
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	452 mm – 462 mm	
	Angle between of handgrip axis and direction of movement ( $\alpha$ )	0°	
	Height of rollator (dimension 6)	808 mm	min.
		993 mm	max.
	Width of rollator (dimension 5)	648 mm	
	Turning width (dimension 1)	890 mm	
	Length of rollator (dimension 4)	717 mm	
Dimensions of folded rollator (mm)		815 x 717 x 258	
Fig. 3	Handgrip - diameter	37 mm	Anatomical handgrip
	Handgrip - length	121 mm	
Wheels of rollator	Front wheels - quantity	2	castor wheels
	Front wheels - diameter	283 mm	
	Front wheels - width	42/43 mm	
	Front wheels - brake	none	
	Rear wheels - quantity	2	
	Rear wheels - diameter	283 mm	
	Rear wheels - width	42/43 mm	
	Rear wheels - brake	Included	
Tip	Diameter	none	
	Material	none	
	Colour	none	
Material of rollator (fig. 1)	Front legs	Aluminum,	
	Bracing member (no. 8)	Carbon,	
	Rear legs	Hard plastic,	
	Height adjusting device (no. 4)	Bolts, nuts	
	Handgrip (no 5), Brake elements	Hard plastic	



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www.mobilex.dk

**Panda Royal rollator**

REF 312602

≤ 150kg

65 cm

≤ 5 kg

2024.06.13

SN 0003

CE MD



## RESULT OF TESTS ACCORDING TO EN ISO 11199-2:2021

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
6.1	ISO 14971 ISO 12100	Risk analysis	--	N/T	
6.2	V/I	Rollators that can be dismantled	--	N/A	
6.3	V/I	Fasteners	--	N/A	
6.4	V/I	User mass / load limit	Conf.	Pos.	
6.5	V/I	Equipment of the rollator used inside the premises	Conf.	Pos.	
		• front wheel diameter $\geq 75\text{mm}$	Conf.	Pos.	283 mm
		• the presence of two parking brakes	Conf.	Pos.	
6.5	V/I	Equipment of the rollator used outdoors	Conf.	Pos.	
		• front wheel diameter $\geq 180\text{mm}$	Conf.	Pos.	283 mm
		• front wheel width $\geq 22\text{mm}$	Conf.	Pos.	42 mm
		• the presence of two driving brakes	Conf.	Pos.	
		• the presence of two parking brakes	Conf.	Pos.	
6.6		Brakes			
	6.6.1 V/I	Ease of use of the brakes when moving a rollator with more than 2 wheels	Conf.	Pos.	
	6.6.1 V/I	The occurrence of parking brakes in a rollator with more than 2 wheels and a seat for rest, or intended for outdoor use	Conf.	Pos.	
	6.6.1 Measur.	Distance to the brake lever (fig. 3)	Conf.	Pos.	69 mm ( $\leq 75\text{ mm}$ )
	6.6.1 V/I	Ability to compensate for brake wear	Conf.	Pos.	
	6.6.1 V/I	No negative effect on the brake performance when folding, unfolding or adjusting the rollator	Conf.	Pos.	
	6.6.1 V/I	Possibility of adjusting settings (e.g. height) without using tools	Conf.	Pos.	
6.6.2		Brake effectiveness			
	6.6.2.1 Measur.	Parking brake activation/release force	30/20N Conf.	Pos.	$\leq 60\text{ N pushing}$ $\leq 40\text{ N pulling}$
	6.6.2.2	The effectiveness of the travel brake	Conf.	Pos.	Movement of rollator $\leq 10\text{ mm in 1 minute}$
	6.6.2.2	The effectiveness of the parking brake	Conf.	Pos.	Movement of rollator $\leq 10\text{ mm in 1 minute}$
6.6.3.1	6.6.3.2	Durability of brakes	Conf.	Pos.	100 000 cycles $f \leq 0,5\text{Hz}$
6.7	Measur.	Handgrip	37mm Conf.	Pos.	Width of handgrip $\geq 20\text{mm}$ and $\leq 50\text{mm}$
	7.1	Recycling			
7.2.1	ISO 8191-2	Flammability	--	N/T	
7.2.2	ISO 8191-2	Upholstered parts	--	N/T	
7.3	ISO 10993-1	Biocompatibility and toxicity	--	N/T	
7.4		Infection and microbiological contamination	--	N/T	
	7.4.2	Cleaning and disinfection	--	N/T	
7.5	ISO 9227	Resistance to corrosion	--	N/T	
8	V/I	Ingress of liquids	--	N/A	
9	V/I, Measur.	Temperatures of parts that come in contact with human skin			$t \leq 41^\circ\text{C}$ ■ 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
10	10.1, V/I, Measur	Safety of moving parts	Conf.	Pos.	Comments in service manual
11	11.1, V/I, Measur	Holes and clearances	Conf.	Pos.	Comments in service manual
	11.2, V/I, Measur	V-shape openings	Conf.	Pos.	



## RESULT OF TESTS ACCORDING TO EN ISO 11199-2:2021

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
12	V/I	Folding, adjusting and locking mechanisms	Conf.	Pos.	
	12.3	Locking mechanisms	Conf.	Pos.	
13	V/I, Measur	Carrying handles			
		Presence of the handling devices (e.g. handles) in components of mass greater than 10 kg, or	–	N/A	
		Information indicating the points where components can be lifted and describing how they shall be handled during disassembly, lifting, carrying and assembly available	–	N/A	
14	V/I	Surfaces, corners and edges	Conf.	Pos.	
15.1	15.2.1	Forward-direction stability	22,0° Conf.	Pos.	Stability required $\geq 15^\circ$
15.1	15.2.2	Backward-direction stability	8,0° Conf.	Pos.	Stability required $\geq 7^\circ$
15.1	15.2.3	Sideway-direction stability	6,5° Conf.	Pos.	Stability required $\geq 3,5^\circ$
15.1	15.2.4	Stability – with loaded basket, bag, drip, oxygen cylinder	forwards	20,9° Conf.	Pos.
	backwards		13,0° Conf.	Pos.	
	side		7,0° Conf.	Pos.	
16.1.2	16.1.3	Static strength of resting seat	Conf.	Pos.	1 minute under load 1,2 x user's weight $\pm 2\%$ (180kg)
16.2.2	16.2.3	Static strength of the rollator	Conf.	Pos.	loading 180kg $\pm 2\%$ , 1min. NOTE 1
16.3.2	16.3.3	Strenght of backrest	Conf.	Pos.	1,2 x user's weight $\pm 2\%$ x 60sek, x 10 cycles
17.1	17.2	Durability test	Conf.	Pos.	200 000 cycles with load. 120kg $\pm 2\%$ , f=1Hz
<b>Information marked on the product</b>					
20.2	V/I	a) manufacturer's model identification name and/or numb.	–	N/T	
		b) whether or not the rollator is designed for indoor or outdoor use	–	N/T	
		c) maximum user mass	–	N/T	
		d) name or trade name and address of the manufacturer or authorized representative according to local requirements	–	N/T	
		e) year and month of manufacture	–	N/T	
		f) maximum safe working load (to be marked on the accessories	–	N/T	
		g) maximum width of the rollator	–	N/T	
		h) maximum allowed angle between the longitudinal centre line of the handle and the direction of motion, if the handles are sideways adjustable	–	N/T	
		i) all information shall as far as possible be available in Pictogram in accordance with ISO 7000 and ISO 15223-1	–	N/T	
<b>Instruction manual</b>					
20.3	V/I	a) information on how to obtain the user information in a format appropriate for use by people with visual, reading or cognitive disabilities	–	N/T	
		b) a description of the intended use including intended user and the intended environment	–	N/T	
		c) maximum user mass	–	N/T	
		d) maximum safe working load for load carrying accessories such as basket, tray, shopping bag, etc	–	N/T	
		e) minimum and maximum height of the rollator	–	N/T	
		f) maintenance instructions, if applicable	–	N/T	
		g) if the rollator is intended to be cleaned, a description of the method and suitable cleaning materials, including precautions needed to avoid corrosion, if applicable	–	N/T	
		h) if the rollator is intended to be disinfected, a description of the method and suitable materials, including any precautions needed to avoid corrosion, if applicable	–	N/T	

## RESULT OF TESTS ACCORDING TO EN ISO 11199-2:2021

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
		i the overall dimensions (width, length and height) of the rollator, expressed in millimeters, and its mass, expressed in kilograms, when it is ready for use and, if applicable, when it is folded or dismantled	-	NT	
		j the mass expressed in kilograms, if the rollator can be dismantled or has any removable parts that has a mass that is heavier than 10 kilograms	-	NT	
		k if the rollator is supposed to be used in combination with other products, the manufacturer shall state which products, and how this can be done in a safe way	-	NT	
		l a list of accessories, detachable parts and materials that the manufacturer has determined as being intended for use with the rollator	-	NT	
		m whether and how the rollator can be folded or dismantled to assist in storage or transport	-	NT	
		n the location and the type of identification number/word on the rollator shall be given for the unique identification number of the assistive product	-	NT	
		o any adjustment or settings required before the rollator can be used and information on how adjustments or settings affect the rollator	-	NT	
		p information on adjustment possibilities and the competence required to carry out these adjustments	-	NT	
		q instructions on operation of all controls	-	NT	
		r instructions on dismantling and re-assembly of the rollator or any removable parts	-	NT	
		s 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	-	NT	
		t a warning if surface temperatures can increase / decrease when exposed to external sources of heat (e.g. sunlight, outdoor environment)	-	NT	
		u if the intended purpose of the rollator cannot be met without a hazard (e.g. holes, V-shaped opening), a warning and instructions on how to operate the assistive product safety	-	NT	
		v if the intended purpose of the rollator cannot be met without a hazard due to moving parts such as squeezing, a warning and instructions on how to operate the rollator safety	-	NT	
		w how to obtain information about the warranty	-	NT	
		x warning of the risk of falling from the rollator such as "Incorrect use can lead to hazardous situation - Do not use the products to transport a person".	-	NT	

**TEST CONDITIONS**

Ambient temperature	21°C	Required temperature 21°C ±5°C
Relative humidity of air:	55 %	Not required

**Comments:**

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 – 30mm, elastic deformation – 27mm, permanent deformation – 3mm (0,3% - ≤1%).**

**CONCLUSIONS:**

*Testing object conforms with requirements of PN-EN ISO 11199-2 : 2021 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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