

ITRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 5.01.2016

TEST REPORT NO. *CBC* –152/2015

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Subject of testing:

Walking aids with built-in handgrips and three or

Classification according to

more legs of which two or more are having wheels,

PN-EN ISO 9999:2011: 12 06 06

which provide support whilst walking

Type / Model:

Kudu Rollator

MEDIUM

Nr kat.: 312076 SN: G-563281

Number of specimens: 1

Manufacturer:

MOBILEX A/S

Nørskovvei 1

DK-8660 Skanderborg

Applicant:

A-Net s.c.

93-469 Łódź.

ul. Łaskowice174

Kind of testing

Mechanical testing for conformity with PN-EN ISO 11199-2: 2005

excluding clause 4.10, 6.2, 6.3

Test started: 17.12.2015

Test finished: 5.01.2016

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.

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CHARACTERISTIC OF PRODUCT

Name: Kudu - MEDIUM

Dimension of rollator: -
Nr. kat: 312076

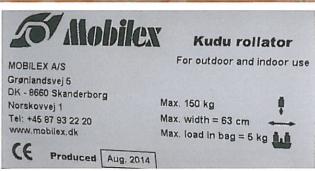
Product code: --

Maximum permissible user mass:150 kgMass of rollator:7,905 kgDescriptionPHOTO OF PRODUCT

	Descripti	on		
Ele	mensions	C	omments	
Dimensions od walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between	440 mm		
	handgrips (dimension 2)			
	Angle between of handgrip	00	T	
	axis and direction of			
	movement (α)			
	Height of rollator	788 mm	min.	
	(dimension 6)	881 mm	m	ax.
	Width of rollator	612 mm		3.000.22
	(dimension 5)			
sio	Turning width	832 mm		
nen (fig	(dimension 1)			
iii	Length of rollator	685 mm		
	(dimension 4)			
Dimen	mensions of folded rollator (mm) 67		: 27	71
m	Handgrip - diameter	33 mm		Anatomical
Fig. 3				handgrip
	Handgrip - length	100 mm		
Wheels of rollator	Front wheels- quantity	2	2	
	Front wheels - diameter	201 mm		wheels
	Front wheels – width	34 mm		
	Front wheels - brake	none		
	Rear wheels - quantity	2		
	Rear wheels - diameter	201 mm		
	Rear wheels - width	34 mm		
	Rear wheels - brake	Included		
Tip	Diameter			
	Material	Not any		
	Colour			
Material of rollator (fig. 1)	Front legs	Aluminum,		
	Bracing member (no. 8)	steel, plastic,		
	Rear legs	Bolts, nuts		
	Height adjusting device (no.			
	4)			
	Handgrip (no 5),	plastic		
2 =	Brake elements			













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RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-2:2005 Requirements according to clause 9 Test result Test me-thod according to clause Real value Checked Comments characteristics/assemblies/parameters 4.1 Manoeuvrability ø front wheels ≥75mm Measur. ø 201 mm outdoor intended rollator: width 34 mm Pos. ø front wheels ≥180mm Conf. width of wheels ≥22mm 24,0 ° Conf. 12,3 ° Conf. 5,2 ° Conf. 22,0 °/21,0° Conf. 4.2 5.3 Forward-direction stability Pos. Stability required ≥ 15° 5.4 4.2 Backward-direction stability Pos. Stability required ≥ 7 4.2 5.5 Sideway-direction stability Pos. Stability required ≥ 3,5° 42 5.6 Stability forwards Pos. Stability required ≥ 15° 17,5 ⁰/20,5 ⁰ Conf. 6,4 ⁰/8,3 ⁰ Conf. with loaded bag /+trav backwards Pos. Stability required ≥ 7° Pos. Stability required ≥ 3,5° side 4.3 V/I Servicing facility during rollator motion with more than 2 Conf. Pos. V/I Parking brakes in rollator with more than 2 wheels and Pos. Conf. resting seat or intended for outdoor use Brake grip distance (fig. 4, dimension 1) Pos. ≤ 75 mm 5.7.1.1 75 mm Conf. 5.7.1 Running brake effectiveness Movement of rollator Conf. Pos. ≤10 mm in 1 minute Brakes Force to set parking brake Measur. 30N Conf. Pos. $\leq 60 N$ Force to release parking brake Measur. $\leq 40 N$ 20N Conf. Pos. Movement of rollator 5.7.2 Parking brake effectiveness Conf. Pos. ≤ 10 mm in 1 minute V/I Possibility to compensate brake wear Conf. Pos. V/I Brake not adversely affected by folding, unforlding or Pos. Conf. adjusting actions of rollator 4.4 Measur. Handgrip Width of handgrip ≥20mm 33 mm Conf. Pos. V/I and ≤50mm Leg section and tip 4.5 Measur. ø tip ≥35mm (tested rollator N/A V/I is equipped in four wheels) 1 minute under load 4.6 5.10 Resting seat - static loading durability 1,2 x user's weight±2% Pos. Conf. (180kg) 200 000 cycles with load. 5.12 Mechanical Fatigue test 4.7 Pos. Conf. 120kg±2%, f=1Hz durability loading 180kg±2%, 5sek. 5.11 Static loading test Conf. 4.7 Pos. 4.8 V/I Adjusting devices Conf. Pos. 4.9 5.14 Folding mechanism Conf. Pos. ISO 10993-Biocompatibility of material with human body 4.11 N/TMaterials and finish 1 V/I Free of discolouring of skin or clothing in contact Conf. Pos. with rollator materials V/I Burrs, shar edges, projections Conf. Pos. Marking and labelling of product V/I 6.2 a) Maximum user mass N/T b) Maximum safe working load (SWL) to be marked on accessories N/Tc) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways N/Tadjustable d) Manufacturer's name or trade name and address N/Te) Manufacturer's model identification name and/or number N/Tf) Month and year of manufacture N/Tg) Maximum extension of the height adjustment, marked on the N/Tadjusting members h) Maximum width of the rollator N/Ti) Rollator intended for outdoor/indoor use N/T4.10 V/I Warning showing allowed angle between handle axis and direction of N/T movement or physical stop of angle adjusting



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		Contents of user manual and/or assembly manual or clear and indelil	ole markin	g of produc	et
6.3	V/I	a) Maximum rollator height		N/T	
		b) Minimum rollator height		N/T	
		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		N/T	
		d) Instructions for assembly, adjustment of all kinds, folding and unfolding		N/T	
		e) Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182, Clauses 12 and 13, for guidance)		N/T	
		f) Maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.		N/T	
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/T	
		TEST CONDITIONS	•		
Ambient temperature			19°C		Required temperature $21^{\circ}C \pm 5^{\circ}C$
Relative humidity of air:			55 %		Not required
Comme	ents:				
All tests	performed with	maximum height adjustment of rollator.			
All tests	performend in the	he least stabble position of self-adjusting wheels.			
rests pe	rformed with har	ndles positioned at their maximum (allowed) angle to the direction of moti	on (when a	djustment is	s possible).
Sequenc	e of tests: stabili	ty test, static loading test, fatigue test.			
0111	ator was tested.			****	
During	visual inspection	on before testing any visible defects that could have influence on te	est results	were not st	ated.
Doc r	acitiva Nac	nagative: N/T not tested: N/A not applicable: N/P not rea	nirod NI/	O not on	ause d

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 -50 mm, elastic deformation -47 mm, permanent deformation -3 mm.
- NOTE 2: An additional fatigue tests on the two-drum stand with obstacles of a height of 12mm, according to ISO 7176-8: 2002, cl. 10.4.2., was performed.
 - ► The handles were loaded with a load of 120 kg. After 15 000 cycles, the rolator was not damaged. The test result was positive.
 - ▶ The seat was loaded with a load of 100 kg. After a further 35 000 cycles, the rolator was not damaged. The test result positive
- NOTE 3: Additional Drop Pouch tests were performed. The seat was loaded with a mass of 100 kg.

 Rear of the rolator was dropped (on wheels) 5 times from a height of 100mm. Rolator was not damaged. The test result positive.

CONCLUSIONS:

Testing object conforms with requirements of PN-EN ISO 11199-2: 2005, excluding clause 4.10, 6.2, 6.3 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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