



CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

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Date 27.12.2016

TEST REPORT NO. **CBC-196/2016**

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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:	SPACE	Art.Nr.: LRCHL600 SN: --
Manufacturer:	REHASENSE Sp. z o.o. Sulejowska 45 97-300 Piotrków Tryb.	Number of specimens: 1
Applicant:	A-Net s.c. 93-469 Łódź, ul. Łaskowice174	
Kind of testing	Mechanical testing for conformity with PN-EN ISO 11199-2 : 2005	
Test started:	21.12.2016	
Test finished:	27.12.2016	

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>SPACE</i>	Dimension of rollator: --
Art.Nr.: <i>LRCHL600</i>	SN: --
Maximum permissible user mass: <i>150 kg</i>	Mass of rollator: <i>6,15 kg</i>

Description		Comments	
Elements/parameters/materials/dimensions			
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	456-467 mm	
	Angle between of handgrip axis and direction of movement (α)	0°	
	Height of rollator (dimension 6)	775 mm	min.
		1022 mm	max.
	Width of rollator (dimension 5)	613 mm	
	Turning width (dimension 1)	853 mm	
	Length of rollator (dimension 4)	680mm	
Dimensions of folded rollator (mm)		855 x 660 x 224	
Fig. 3	Handgrip - diameter	33 mm	
	Handgrip - length	120 mm	
Wheels of rollator	Front wheels - quantity	2	castor wheels
	Front wheels - diameter	202 mm	
	Front wheels - width	35/32 mm	
	Front wheels - brake	none	
	Rear wheels - quantity	2	
	Rear wheels - diameter	202 mm	
	Rear wheels - width	35/32 mm	
Tip	Diameter		
	Material	Not any	
	Colour		
Material of rollator (fig. 1)	Front legs	Aluminum,,	
	Bracing member (no. 8)	Hard plastic,	
	Rear legs	Bolts, nuts	
	Height adjusting device (no. 4)		
	Handgrip (no 5), Brake elements	Hard plastic	



SN	SPACE	
		2016-12-01
0105901912635258(1)161201(2)10001	LRCHL600	
		150 Kg
	5 Kg	
		62 cm
	REHASENSE	
REHASENSE Sp. z o.o. Sulejowska 45 97-300 Piotrków Tryb. Poland		
5 901912 635258		



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		$\varnothing 202$ mm width 32mm 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		18,1 ⁰ Conf.	Pos.	Stability required $\geq 10^{\circ}$
4.2	5.4	Backward-direction stability		8,5 ⁰ Conf.	Pos.	Stability required $\geq 7^{\circ}$
4.2	5.5	Sideway-direction stability		4,5 ⁰ Conf.	Pos.	Stability required $\geq 3,5^{\circ}$
4.2	5.6	Stability – with loaded basket, bag, drip, oxygen cylinder	forwards	17,0 ⁰ Conf.	Pos.	Stability required $\geq 10^{\circ}$
			backwards	12,7 ⁰ Conf.	Pos.	Stability required $\geq 7^{\circ}$
			side	5,7 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)	71 mm Conf.	Pos.	≤ 75 mm
	5.7.1		Running brake effectiveness	Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute (incline 6 ⁰)
	Measur.		Force to set parking brake	40 N Conf.	Pos.	≤ 60 N
	Measur.		Force to release parking brake	20 N Conf.	Pos.	≤ 40 N
	5.7.2		Parking brake effectiveness	Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute (incline 6 ⁰)
	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		33 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
			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		Conf.	Pos.	
		b) Maximum safe working load (SWL) to be marked on accessories		Conf.	Pos.	
		c) Maximum allowed angle between the longitudinal centreline of the handle and the direction of motion, if the handles are sideways adjustable		Conf.	Pos.	
		d) Manufacturer's name or trade name and address		Conf.	Pos.	
		e) Manufacturer's model identification name and/or number		Conf.	Pos.	
		f) Month and year of manufacture		Conf.	Pos.	
		g) Maximum extension of the height adjustment, marked on the adjusting members		Conf.	Pos.	
		h) Maximum width of the rollator		Conf.	Pos.	
		i) Rollator intended for outdoor/indoor use		Conf.	Pos.	
4.10	V/I	Warning showing allowed angle between handle axis and direction of movement or physical stop of angle adjusting		Conf.	Pos.	

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

6.3	V/I	a) Maximum rollator height	Conf.	Pos.	
		b) Minimum rollator height	Conf.	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	Conf.	Pos.	
		d) Instructions for assembly, adjustment of all kinds, folding and unfolding	Conf.	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)	Conf.	Pos.	
		f) Maximum safe working load (SWL) for load carrying accessories such as basket, tray, shopping bag, etc.	Conf.	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).	Conf.	Pos.	

TEST CONDITIONS

Ambient temperature	17°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 – 35 mm, permanent deformation - 2mm, elastic deformation – 33 mm.

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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