



CENTRE FOR TESTING AND CERTIFICATION - MECH-TEST

Mechanical Laboratory

05-077 Warszawa-Wesoła, ul. Klonowa 22
tel.: +48 603 23-26-45, e-mail: cbc.mech.test@gmail.com, www.cbc.org.pl

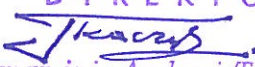
Date 10.11.2017

TEST REPORT NO. **CBC-177/2017**

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Subject of testing:	<i>Walking tables</i>	Classification according to PN-EN ISO 9999:2011 :	12 06 12
Type / Model:	<i>BISON Walking frame for indoor use only</i>	Item no.:	<i>313300</i>
		SN:	<i>--</i>
Manufacturer:	<i>MOBILEX A/S Grønlandsvej 5 DK – 8660 Skanderborg</i>	Number of specimens:	<i>1</i>
Applicant:	<i>A-Net s.c. 93-469 Łódź, ul. Łaskowice174</i>		
Kind of testing	<i>Testing scope according to application of Client Mechanical testing for conformity with PN-EN ISO 11199-3:2008</i>		
Test started:	<i>3.11.2017</i>		
Test finished:	<i>10.11.2017</i>		

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 his structure, material or technology

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CHARACTERISTIC OF PRODUCT

Name : <i>BISON</i>	Dimension of rollator: --
Item no.: <i>313300</i>	SN: --
Maximum permissible user mass: <i>150 kg</i>	Mass of rollator: <i>18,3 kg</i>

Description		Comments	
Elements/parameters/materials/dimensions			
Dimensions of walking rollator (fig. 2 PN-EN ISO 11199-2)	Distance between handgrips (dimension 2)	340 mm	
	Angle between of handgrip axis and direction of movement (α)	--	
	Height of rollator (dimension 6)	1022 mm	min.
		1430mm	max.
	Width of rollator (max.) (dimension 5)	800 mm	
	Turning width (dimension 1)	984 mm	
Length of rollator (max.) (dimension 4)	860 mm		
Dimensions of folded rollator (mm)		920 x 805 x 688	
Fig. 3	Handgrip - diameter	31 mm	
	Handgrip - length	100 mm	
Wheels of rollator	Front wheels- quantity	2	castor wheels
	Front wheels - diameter	100 mm	
	Front wheels - width	31/31 mm	
	Front wheels - brake	Included	
	Rear wheels - quantity	2	castor wheels
	Rear wheels - diameter	100mm	
	Rear wheels - width	31/31 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	



Mobillex

MOBILEX A/S
Grønlandsvej 5
DK - 8660 Skanderborg
Tel: +45 87 93 22 20
www.mobillex.dk

CE Produced Serial no.

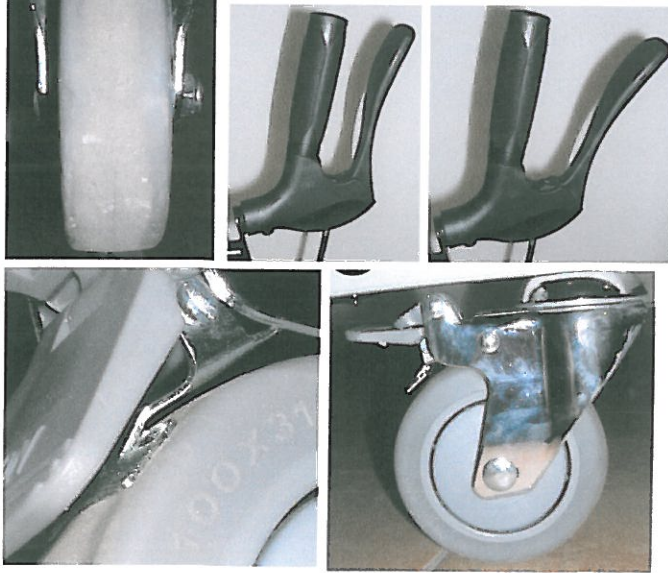
"Bison" Walking frame
For indoor use only

Max. load = 150 kg

Max. width = 79 cm



BISON



RESULT OF TESTS ACCORDING TO PN-EN ISO 11199-3:2008

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
4.1	Stability					
	5.4	product used only in premises	Forward-direction stability	13,2° Conf.	Pos.	≥ 10,0°
	5.5		Backward-direction stability	10,3° Conf.	Pos.	≥ 4,0°
	5.6		Sideway-direction stability	3,5° Conf.	Pos.	≥ 3,5°
	5.4	product also used outside	Forward-direction stability	--	N/A	≥ 15,0°
	5.5		Backward-direction stability	--	N/A	≥ 7,0°
5.6	Sideway-direction stability		--	N/A	≥ 4,5°	
4.2	Brakes					
	V/I	Ease service of running brakes while driving in the products used outside and equipped with more than 2 wheels		--	N/A	
	V/I	The presence of the parking brakes in all tables for walking and the simplicity of their handling		Conf.	Pos.	
4.2	V/I	Adjustable brakes if their performance deteriorates		Conf.	Pos.	
	Meas., 5.8.2.2	Brake grip distance (fig. 8)		72mm Conf.	Pos.	≤ 75 mm
	5.8.2.3	Running brake effectiveness		Conf.	Pos.	Movement of rollator ≤ 10 mm in 1 minute
	Meas., 5.8.3.2	Force to set parking brake		*) Conf.	Pos.	≤ 60 N manual ≤ 100 N foot press
	Meas., 5.8.3.2	Force to release parking brake		***) Conf.	Pos.	≤ 40 N manual ≤ 100 N foot press
	5.8.3.3	Parking brake effectiveness, test to forward		Conf.	Pos.	
	5.8.3.4	Parking brake effectiveness, test to reverse		Conf.	Pos.	
	V/I	Brake not adversely affected by folding, unfolding or adjusting actions of mechanisms		Conf.	Pos.	
V/I	Adjustable brake without the use of tools, where adjusting other mechanisms of the product forces the re-adjustment of the brakes		--	N/A		
*) Hand brake - 40N, footbrake - 100N, **) Hand brake - 15N, footbrake - 85N						
4.3	Mechanical durability					
	5.9.2	Static loading resistance of resting seat		--	N/A	loading - 1,2 x mass of user (180kg), 1mn.
	5.10	Static loading resistance of product		Conf.	Pos.	loading - 1,5 x mass of user, 5 s
4.4	5.11	Fatigue loading resistance of product		Conf.	Pos.	loading - 0,8 x mass of user, 200 000 cycles, f ≤ 1 Hz
	Manoeuvrability					
	Measur.	Diameter of wheels (front/rear)		100mm Conf.	Pos.	≥ 75 mm
Measur.	Diameter of wheels of the product used outside (front/rear)		--	N/A	≥ 180 mm	
Measur.	Width of wheels (front/rear)		31mm Conf.	Pos.	≥ 22 mm, 5 mm above ground	
4.5	Handgrip					
	Measur.	Handgrip - diameter		31mm Conf.	Pos.	≥ 20 mm i ≤ 50 mm
	V/I	Confidence to handle mounting for handgrip		Conf.	Pos.	
4.6	V/I	Ease to change or ease of cleaning		Conf.	Pos.	
	Leg section and tip					
	V/I	Puncture resistant tip		--	N/A	
	V/I	Convertibility of the tip		--	N/A	
	V/I	No staining of the ground		--	N/A	
Measur.	Diameter of the tip		--	N/A	≥ 35 mm	
V/I	Safe clamping of the tip		--	N/A		
4.7	Adjusting devices					
	V/I	Confidence of mounting of adjustable handles		Conf.	Pos.	
	V/I	Marking the maximum allowable extension of adjusting devices		Conf.	Pos.	
	V/I	Reliability of the activity of adjusting mechanisms after the fatigue test		Conf.	Pos.	
V/I	Locking of folding tables for walking in a working position		Conf.	Pos.		
4.8	Resting seat					
	5.9	Resting seat - static loading durability		Conf.	Pos.	loading 180 kg, 1 mn.
4.9	Materials and finish					
	ISO 10993-1	Biocompatibility of material with human body		--	N/T	
	V/I	Free of discolouring of skin or clothing in contact with product materials		Conf.	Pos.	
V/I	No burrs, sharp edges and protrusions		Conf.	Pos.		

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments	
4.10	6.2, V/I	Marking and labelling of product				
		Information to be included on the product and / or accessories:				
		- Maximum permissible user weight	Included	Pos.		
		- Maximum load of accessories	Included	Pos.		
		- Manufacturer's name or trade name and address	Included	Pos.		
		- The name and / or id. number of the product	Included	Pos.		
		- Month and year of production	Included	Pos.		
		- Marking of maximum extension of the height adjustment	Included	Pos.		
		- Max. limit of range adjustment	Included	Pos.		
4.10	6.3, V/I	The content of the documentation:				
		- Maximum supporting height	Included	Pos.		
		- Minimum supporting height	Included	Pos.		
		- Maximum width of the turning	Included	Pos.		
		- Maintenance instructions including brake adjustment as a result of wear and the required terms of control	Included	Pos.		
		- manual cleaning	Included	Pos.		
		- Instructions for assembly, adjustment of all kinds, folding and unfolding	Included	Pos.		
		- Warnings and advice about precautions relating to safe distances between moving and stationary parts (see EN 12182, Clauses 12 and 13)	Included	Pos.		

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

TEST CONDITIONS

Ambient temperature	21°C	Required temperature 21°C ±5°C
Relative humidity of air Humidity	60%	N/R
Comments:		
All tests were performed at maximum height of walking stick.		
All tests performed in the least stable position of self-adjusting wheels.		
Sequence of tests: stability test, static loading test, fatigue test.		
One verticalizer 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. Conformity assessment of product according to standard requirements refer to the scope of mechanical ordered by client

NOTE 2: During visual inspection before testing any visible defects that can have an effect on test results were not stated.

NOTE 3: Sample/object for testing was delivered to the Laboratory by the Orderer.

CONCLUSIONS:

Test object **conforms** with requirements of PN-EN ISO 11199-3:2008 within mechanical testing ordered by client excluding testing of material biocompatibility with human body according to PN-EN ISO 10993-1:2010.

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