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FBM 42-05

Date 20.10.2008

TEST REPORT NO. BR - 164/L - 401/2008

Page 1 of 12

Subject of testing:

Manually propelled wheelchair

Classification according to PN-EN ISO 9999:2001:

12 21 06

Type / Model:

DOLPHIN

Factory ref. no.: D - 0001

Manufacturer:

MOBILEX A/S, Noerskovvej I

Number of specimens: 1

Applicant:

MOBILEX Sp. z o.o.

90-540 Łódź.

ul. Radwańska nr.23/1

DK - 8660 Skanderborg

Kind of testing

Testing scope according to application of Client

Mechanical testing for conformity with PN-EN 12183: 2002;

PN-EN 12182:2002; PN - ISO 7176 - part 3,5,7,8,15

ISO 7176-part 1

Test started: 25.07.2008

Test finished: 20.10.2008

Performed by:

Checked by:

Approved by:

Mirosław Szymański

Ireneusz Czerwiński

LABORATORIUM MECHANICZNEGO

mgr inż. Andrzej Tkaczyk

Special comments / enclosures:

1) labels, service manual

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Test results refer only to tested units.

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

Constructional, material or technological modifications made in product require re-assessment of product conformity with requirements of above mentioned standards.





12.03

Page: 2 of 12

CHARACTERISTIC OF MANUALLY PROPELLED WHEELCHAIR

Name of wheelchair: DO	LPHIN		y ref. no. D - 0001	
Maximum load capacity:			ll mass of wheelchair: 16	,75kg
	De	escription		Comment
Dimensions:	Length:	and appendix of the appendix of the control of the	1065mm	
	Height (max./n	1050mm/963mm		
	Width:		713mm	
Construction of frame:	Material:		Aluminum alloy	
	Method of faste	ning frame elements:	Welding	
	Folding/unfoldi	Folding		
Drive wheels	Ø external:		534mm	
	Ø pipe:		19mm	
	Material:		Aluminum alloy	
	Way of fastenin	g to driven wheel:	Bolts, nuts	
		ening points to driven who	eel: 6	
Driving wheels	Material of ring		Aluminum alloy	
<u> </u>	Dimension of ty		24"x13/s"(37x540m	im)
	Pressure:		N/A	Solid tyr
	Way of fastenin	g wheel to construction:	Quick connector	
		nent (number of fixing po	ositions) YES 3	
		stment (number of fixing		
	Inclination angl	NO		
	Inclination angl	0°	Without loading of wheelchair	
Castor wheels	Ø of wheel:		198mm	Wheelchair
	Width:		44mm	
	Material of ring	of a wheel:	Plastic	
	Material of fork		Aluminum alloy	
	Vertical adjustr	nent (number of fixing po	sitions) YES 3	
		stment (number of fixing		
		ixis inclination angle:	YES	
Backrest	Folding/unfoldi		Unfolding	
	Backrest	stepless:	NO	
	inclination adjustment	number of fixing pos	7,000	
Γilt levers	Two singular:		YES	
LIII ICVCIS	One lateral:		NO	
Push handles	Kind:		Two double	
Parking brake	Left:		YES	
	Right:		YES	
	Kind:		Lever	
	Material of leve		Steel, plastic With clamp	
	Fastening to frame: Way of adjustment:		With screws and cla stabilizing position break towards tyr	of
Jpholstery	Material:		Nylon	
o paroaseer y	Colour:		Black	
Wheel space in forward dire			375mm	
ATTECT SPACE IN TOLASTIC OLD	erion hosinon:		D/ J/IIII	



Mechanical Labora FBM -45 12.03	BM -45 2.03		101/2008 ge: 3 of 12
Legrests	Common for both legs:	NO	
	Separate for each leg:	YES	
	Stationary:	NO	
	Folding:	YES	
	Vertical adjustment (number of fixing positions)	NO	
	Horizontal adjustment (number of fixing positions):	NO	
	Angle adjustment (number of fixing positions):	NO	
The state of the s	Material of legrest:	Aluminum alloy Plastic	
Accessories	Seat belt	NO Possibility of fixing seat belt	Note in service manual
	Service:	YES	

PHOTO OF WHEELCHAIR





Dolphin wheelchair



Noerskovvej 1 DK - 8660 Skanderborg Tel: +45 87 93 22 20 www.mobilex-care.com

Max. 120 kg

07/2008

€ Produced

Serial no.

10 mm x 30 mm



12.03

Report no.: BR - 164/L-401/2008

Page: 4 of 12

TESTING

NORMATIVE REFERENCES	Applied
PN-EN 12182:2002 Technical aids for disabled persons – General requirements and test methods	YES
PN-EN 12183:2002 Manually propelled wheelchairs - Requirements and test methods	YES
PN-EN 12184:2002 Electrically powered wheelchairs, scooters and their chargers – Requirements and test method	NO
SO 7176-1:1999 Wheelchairs – Determination of static stability	YES
PN-ISO 7176-2:1998 Wheelchairs – Determination of dynamic stability of electric wheelchairs	NO
PN-ISO 7176-3:1998 Wheelchairs – Determination of efficiency of brakes	YES
SO 7176-4:1997 Wheelchairs – Energy consumption of electric wheelchairs and scooters and determination of heoretical distance	NO
N-ISO 7176-5:2001 Wheelchairs – Determination of overall dimensions, mass and turning space	YES
N-ISO 7176-6:1998 Wheelchairs – Determination of maximum speed, acceleration and retardation of electric wheelchairs	NO
N-ISO 7176-7:2001 Wheelchairs – Measurement of seating and wheel dimensions	YES
N-ISO 7176-8:2002 Wheelchairs – Requirements and test methods for static, impact and fatigue strengths	YES
SO 7176-9:2001 Wheelchairs – Climatic test for electric wheelchairs	NO
N-ISO 7176-10:1998 Wheelchairs – Determination of obstacle-climbing ability of electric wheelchairs	NO
PN-ISO 7176-14:2001 Wheelchairs – Power and control systems for electric wheelchairs – Requirements and est methods	NO (Electrotechnicae Laboratory)
N-ISO 7176-15: 2002 Wheelchairs – Requirements for informative disclosure, documentation and labelling	YES
N-ISO 7176-16:2001 equivalent: PN-90/P-04823 Wheelchairs. Resistance to ignition of upholstered parts – lequirements and test methods	YES
Note: Wheelebair with adjustment elements recorded in a factors was newformed	

Note: Wheelchair with adjustment elements regulated in a factory was performed

RESULT OF MECHANICAL TESTS ACCORDING TO PN-EN 1218
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Requirement s according to clause	Test method according to clause	Che	cked characteristics/assemblies/parameters	Real value	Test result	Comments
4.1	5.2, 5.4.2, 5.5, 6, 8.2.1, 9.4,10,21, 22, 24 and EN 1441	Risk and	alysis	-	N/T	
4.2	V/I	Expecte	d characteristics and technical documentation	Conf.	Pos.	
4.3	EN-540	Clinic a	ssessment	(H)	N/T	
4.4	V/I	Technic	al support which can be dismantled	Conf.	Pos.	
4.5	V/I	Single u	se connections	-	N/A	
5.1	PN-ISO 7176-16	Flammability		Conf.	Pos.	
5.2	PN-EN ISO 10993-1	Biologic	Biological conformity and toxicity		N/T	
5.3	V/I	Impuriti	es and residues	-	N/A	
5.4	24, Annex C C.5.4.1	ical d n	Cleaning	Conf.	Pos.	
	24, Annex C C.5.4.1	Microbiological infections and contamination	Disinfection	-	N/A	
	EN 12442- 1	Micre infect conta	Animal tissue	-	N/A	1.11111
7		Electromagnetic compatibility		-	N/A	



	anical La	boratory of PCBC		Report n	10.: B	R - 164/L-401/2008
FBM -45 12.03						Page: 5 of 1
Requireme	Test meth	and I			77	
nts	according	Cnecked		Real value	Test	3.0
according	clause	ala a rea ada mindia a da a ser la lli de l	De 1 3	Real value	resu	Comments
to clause					It	
8	75.7.0f	Electrical safety		=	N/A	
9	V/I	Overflowing, pouring out, leakage and pouring in of li	quids		N/A	
11	EN-550 552,554, 5 868-1			-	N/A	
12	V/I Measu	Safety of moving elements		Conf.		Comments in service manual
13	V/I Measu	Trap prevention for parts of human body		Conf.	Pos.	Comments in service manu
14	V/I	Folding and adjusting of mechanisms		Conf.	Pos.	
15	V/I Measu	Hand grips for transferring		-	N/A	Wheelchair is not provided with hand grips for
16.1	16.2	Aids for support of users		Conf.	Pos.	transferring
17	V/I	Portable and moving technical aids		Cory.		
18	V/I	Surfaces, corners and edges		- C	N/A Pos.	1
19	C18			Conf.		
		Hand kept technical aids Grips and other elements for transferring		7	N/A	1.0
20	V/I Measui	Measur.		970	N/A	Mass of wheelchair below 20 kg
		TEST RESULTS according to		N 12183		
		DESIGN REQUIREME	NIS			
Requireme	Test	Checked			Test	
nts according	method		Rea	al value	resu	Comments
to clause	according to clause	characteristics/assemblies/parameters	1400		lt	Comments
		T consists and for the state		~ .		
6.1.1.	6.1.2	Legrests and footrests	(Conf.	Pos.	
	V/I	Pneumatic tyres		-	N/A	Solid tyres
6.3.		Fastening of seat belt		Conf.	Pos.	Note in service manual
6.4.	V/I	Side and back rests	(Conf.	Pos.	
6.5.	\mathbb{V}/\mathbb{I}	Wheelchairs to be used as seats in motor vehicle			N/A	
6.6.	V/I	Brakes	(Conf.	Pos.	
6.7.	V/I	Mass of components Mass of the biggest component:	8, descript wheelcha	Conf. ,85kg tion of lifting tir included in ce manual	Pos.	In case of 10 kg mass hand grips for transferring or description of lifting of wheelchair in service manua are required
6.8.	V/I	Anti-tilting devices Backwards static stability:		Conf. 10°	Pos.	Anti-tilting devices are required in case of backwar stability below 7°
	C	FUNCTIONAL PROPER	TIES			
7.1.	PN-ISO 7176-8	Static, fatigue and impact strength		Conf.	Pos.	
-	7.2.3	Parking brake efficiency		Conf.	Pos.	Dolon 60 M f.
7.2.1.		= force applied to hand brakes:		28N	S-10/4-86-	Below 60 N force engaging hand-brake is required
7.2.1.					N/A	mana-orane is required
7.2.1.		- force applied to pushed in foot brake:				
7.2.1.		force applied to pushed in foot brake: force applied to pulled foot brake:			100000000000000000000000000000000000000	
7.2.1.	PN-ISO	- force applied to pushed in foot brake: - force applied to pulled foot brake: - effectiveness of braking wheelchair facing up to the	ie slone:	***	N/A	
7.2.1.	7176-3	force applied to pushed in foot brake: - force applied to pulled foot brake: - effectiveness of braking wheelchair facing up to the		Conf.	N/A Pos.	No rotation or wheel spin
7.2.1.		- force applied to pushed in foot brake: - force applied to pulled foot brake: - effectiveness of braking wheelchair facing up to the down the slope	eward	Conf.	N/A Pos. Pos.	No rotation or wheel spin when wheelchair is on inclin plane of 7° slope
	7176-3 clause 7	- force applied to pulled foot brake: - effectiveness of braking wheelchair facing up to the effectiveness of braking wheelchair positioned side down the slope - effectiveness of braking wheelchair facing down the	eward	Conf. Conf.	N/A Pos. Pos.	
7.2.2.	7176-3 clause 7	Fatigue strength of parking brake	eward	Conf.	N/A Pos. Pos.	when wheelchair is on inclin
7.2.2. 7.3	7176-3 clause 7 7.2.4 PN-ISO 7176-16	Fatigue strength of parking brake Resistance to ignition of upholstery parts	eward	Conf. Conf.	N/A Pos. Pos.	when wheelchair is on inclin plane of 7° slope
7.2.2.	7176-3 clause 7 7.2.4 PN-ISO	Fatigue strength of parking brake	eward	Conf. Conf. Conf. Conf. Conf. Conf. Conf. Conf.	N/A Pos. Pos. Pos. Pos.	when wheelchair is on inclin plane of 7° slope 60000 cycles
7.2.2. 7.3	7176-3 clause 7 7.2.4 PN-ISO 7176-16	Fatigue strength of parking brake Resistance to ignition of upholstery parts	eward	Conf.	N/A Pos. Pos. Pos. Pos. Pos.	when wheelchair is on inclining plane of 7° slope 60000 cycles Force below - 40N required Average of 5 measurements
7.2.2. 7.3 7.5.1.	7176-3 clause 7 7.2.4 PN-ISO 7176-16 7.5.2	Fatigue strength of parking brake Resistance to ignition of upholstery parts Push force	eward	Conf. Conf. Conf. Conf. Conf. Conf. Conf. 29N	N/A Pos. Pos. Pos. Pos. Pos. Pos.	when wheelchair is on inclin plane of 7° slope 60000 cycles Force below - 40N required



C Report no.: 1		L-401/2008 Page: 6 of 12
SULTS according to ISO 7176-1 (unaccredited test method))	
haracteristics/assemblies/parameters Real value	Toet	Comments
wheelchair facing up to the slope 10°		Vhen static stabilit packwards is below
wheelchair positioned backwards up to the slope 21°	N/R	7º anti-overturn
wheelchair positioned sideward up to the slope 23°	N/R	supports are required
ST RESULTS according to PN-ISO 7176-2		
characteristics/assemblies/parameters Real value	Test result	Comments
tart and stop when wheelchair drives forwards up	N/A	Tanka alam
operate hand (or foot) steering mechanism	N/A e	Testing relates lectrically powered
ng during drive forwards and backwards down the	N/A	wheelchairs
rning -	N/A	
ST RESULTS according to PN-ISO 7176-3		
haracteristics/assemblies/parameters Real value	Test result	Comments
s of parking brake of wheelchair positioned Conf. vn the slope 13° Wheel rotate	spir	rotation or wheel n when wheelchair n inclined plane of
s of parking brake of wheelchair positioned Conf. 10° Wheelchair loses stability	7º si	n inclined plane of lope (requirements FPN-EN 12183 p. 7.2.1)
t of force acting on brake lever Conf. 28N	eng (red	elow 60 N force gaging hand-brake is required quirements of PN- N 12183 p. 7.2.1)
ance during drive with maximum speed forwards plane		Testing relates ectrically powered wheelchairs
nce during drive backwards on horizontal plane		Testing relates ctrically powered wheelchairs
nce of wheelchair during drive forwards on slope		Testing relates ctrically powere wheelchairs
g system to increased temperature caused by long forwards on horizontal plane	N/A elec	Testing relates ctrically powered wheelchairs
distance of wheelchair during drive with m speed forwards on horizontal slope		Testing relates ctrically powered wheelchairs
distance of wheelchair during drive with n speed forwards on slope of 5°		Testing relates ctrically powered wheelchairs
ULTS according to ISO 7176-4 (unaccredited test method)		
naracteristics/assemblies/parameters Real value	Test	Comments
ange -		Testing relates ctrically powered wheelchairs



Report no.: BR - 164/L-401/2008 Page: 7 of 12

FBM -45 12.03

according to	Checked characteristics/assemblies/parameters	Real value	Test	Comments
clause		icai vainc	result	Comments
5.1	Overall length of wheelchair with legrest and footrest	1065mm	N/R.	According to PN-E
	Overall width	713mm	N/R.	12183 A.2 and PN-JSO 719.
	Overall height with backrest in its prima position (without headrest/with headrest)	1050/963mm	N/R.	recommended ma overall dimension length: 1200mm width: 700mm height: 1090mm
	Overall length of wheelchair without legrest	774mm	N/R.	The Igni 1020mm
5.2.	Minimum length of folded wheelchair	774mm	N/R.	
	Minimum overall width of folded wheelchair	320mm	N/R.	
	Minimum height of folded wheelchair	963mm	N/R.	
	Minimum volume of folder wheelchair	0,24m³	N/R.	E-192
6.	Mass	16,75kg	N/R.	
7.1	Minimum turning radius	800mm	N/R.	d contract of
7.2	Width of U-turn limited by spacing of walls	1250mm	N/R.	
	TEST RESULTS according to PN-ISO			<u> </u>
Test method		7170 0		
according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
7.1.	Maximum speed during drive forwards	-	N/A	Testing relates
7.2.	Maximum speed during drive backwards	-	N/A	electrically power
8.1.	Maximum acceleration	1=	N/A	wheelchairs
8.2.	Maximum deceleration	-	N/A	
	TEST RESULTS according to PN-ISO	7176 -7		
Test method		7270		1
according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments
7.3.2.	Angle of seat plane	10,4°	N/R.	
7.3.3.	Effective depth of seat	440mm	N/R.	
7.3.4.	Width of seat	475mm	N/R.	
7.3.5.	Effective width of seat	530mm	N/R.	
7.3.6.	Height of front edge of seat plane	500mm	N/R.	
7.3.7.	Angle of backrest	12,5°	N/R.	
7.3.8.	Height of backrest	440mm	N/R.	
7.3.9.	Width of backrest	420mm	N/R.	
7.3.10.	Moving forward of headrest	-	N/A	
7.3.11.	Height of headrest over the seat	_	N/A	
7.3.12.	Distance of footrest from seat	480mm	N/R.	- (
7.3.13.	Clearance of footrest	70mm	N/R.	
7.3.14.	Length of footrest	160mm	N/R.	
7.3.15.	Angle of footrest	93°	N/R.	
7.3.16.	Angle of legrest	107°	N/R.	
7.3.17.	Height of armrests	235-310mm		d land of the
7.3.18.	Moving forward of armrests	355mm	N/R.	4 levels of adjustmen
7.3.19.	Length of armrests	280mm	N/R.	
7.3.20.	Width of armrests	49mm	N/R.	
7.3.21.	Angle of armrests	49mm 4°	N/R.	
7.3.22.	Distance between armrests	500mm	N/R.	
7.3.23.	Position of the front of armrests	355mm	N/R.	
7.3.24.	Diameter of drive wheel	534mm	N/R.	
7.3.25.	Diameter of driving wheel	The second secon	N/R.	
7.3.26.	Displacement of wheel axis horizontally	596mm	N/R.	
7.3.20.	Displacement of wheel axis norizontally Displacement of wheel axis vertically	65mm	N/R.	
7.3.28.	Displacement of wheel axis vertically Diameter of castor/front wheel	120mm	N/R.	
1.3.40.	Diameter of castor/front wheel	198mm	N/R.	



FBM -45 12.03	micai Laoc	pratory of PCBC	Report no.: B		L-401/2008 Page: 8 of 1		
		TEST RESULTS according to PN-ISO 7:	176-8				
Requiremen s according to clause	Test method according to clause	ethod ing to Checked characteristics/assemblies/parameters Real value	-			Test result	Comments
4.	8.4.	Armrest - resistance to forces acting downwards	Conf.	Pos.	loading 940N		
4.	8.5.	Footrests - resistance to forces acting upwards	Conf.	Pos.	loading 1250N		
4.	8.6.	Anti-tip levers	Conf.	Pos.	loading 1250N		
4.	8.7.	Grips Armrest – forces acting upwards	Conf.	Pos.	loading 750N		
4,	8.8.	Conf.	Pos.	loading 1120N Front snap fasten is unfastened. Rear fastening of armrest is damage			
4.	8.9.	Footrest – forces acting upwards		N/A	- Control of Gamage		
4.	8.10.	Handle grips for pushing – load acting upwards	Conf.	Pos.	loading 1100N		
4.	9.3.	Backrest – impact strength		Pos.	25kg pendulum		
4.	9.4.	Driving wheel – impact strength	Conf.	Pos.	impact 10kg pendulum		
4.	9.5.	Castor/front wheel - impact strength	Conf.	Pos.	impact 10kg pendulum		
4.	9.6.3.	Footrest – side impact	Conf.	Pos.	impact 10kg pendulum		
4.	9.6.4.	Footrest – in-line impact	Conf.	Pos.	impact 10kg pendulum		
4.	9.7.2.	Frontal part of wheelchair - directly impact	Conf.	Pos.	10kg pendului		
4.	9.7.3.	Frontal part of wheelchair - displaced impact	Conf.	Pos.	impact 10kg pendulum		
4.	10.4.2.	Testing of manually propelled wheelchair on two-drum machine	Conf.	Pos.	impact 200 000 of cycles with full loading of		
4.	10.4.3.	Measurement of initial current for electrically powered wheelchair		3.77.4	wheelchair (120kg)		
4.	10.4.4.	Testing of electrically powered wheelchair on two-drum machine	-	N/A			
4.	10.5.	Drop testing	Conf.	N/A Pos.	6666 drops of wheelchair with full loading (120kg) from height of 50mm		
		TEST RESULTS according to ISO 7176 -9 (unaccr	edited test method)				
to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments		
8	7.3	Water resistance		N/A	Testing concerns electrically powered wheelchairs		
		TEST RESULTS according to PN-ISO 717	6-10		17716-0-078-071-0		
equirement according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comments		
PN-EN 12184:2002 Table 2	7.1.	Ability to overcome obstacle during drive forwards	-	N/A	Testing concerns electrically powered wheelchairs		
	7.2.	Ability to overcome obstacle during drive backwards	-	N/A	Testing concerns electrically powered wheelchairs		



Test

result

Comments

Real value

Checked characteristics/assemblies/parameters

NOTE. Testing concerns electrically propeller wheelchairs - performed by Electrotechnical Laboratory

according to

clause

according to

clause

12.03

Page: 9 of 12

Requirem	Test method	TEST RESULTS according to PN-ISO 7176	-12	1	
ents according to clause	according to clause	Checked characteristics/assemblies/parameters	Real value	Test result	Comment
7.3		Content of service manual			
7.3.a	V/I	Data concerning guarantee	Included	Pos.	T
7.3.b	V/I	General characteristics: - description of wheelchair with photos or drawings and description of utilization	Included	Pos.	
		- description of user with maximum mass stated	Included	Pos.	
		- description of environment of intended utilization	Included	Pos.	
7.3.c	V/I	- value of recommended pressure in pneumatic tyres	Included	Pos.	
7,5,0	V/I	When wheelchair is sold in elements for individual assembly			
		- list of components	-	N/A	
		- information on tools necessary to fold wheelchair	-	N/A	
		- instruction of bringing lacking or damaged parts	-	N/A	
i		- assembly, installation and disassembly instruction of parts delivered by manufacturer	13 41	N/A	
7.3.d	V/I	- instructions for preparing wheelchair to storage, transport Service manual of wheelchair	-	N/A	
/1014	A / T				
		and another of safety set vice.			(
		- use of wheelchair on surfaces where user moves	Included	Pos.	
		- get on and get off wheelchair	Included	Pos.	
		- illustrations explaining these instructions	Included	Pos.	
7.3.e	V/I	Descriptions of feasible improper use of wheelchair	Included	Pos.	
7,000	V/1	Maintenance instruction			
		 Details of maintenance: service, maintenance/detection of damages, for which user is responsible 	Included	Pos.	
		- tools necessary for repair and service of wheelchair	Included	Pos.	
		- maintenance frequency	Included	Pos.	
		- list of parts (with numbers) and way of is purchase	Included	Pos.	
	1	- conditions when manufacturer, supplier takes action	Included	Pos.	
		Ways of cleaning	Included	Pos.	
	1	Elements intended to easy replacement:		1 00.	
		- information on orders	Included	Pos.	
		- instruction of disassembly	Included	Pos.	
		- information on replacement and testing of parts	Included	Pos.	
		- illustration of parts and their placement	Included	Pos.	
		 Ways of performance dangerous activities 	Included	Pos.	9
7.3.f	V/I	Performing of parameters control	Included	Pos.	
.3.g		Repair of wheelchair	manaca	r os.	
777/22		Identification of parts to be repaired by user	Included	Pos.	9
		Identification of parts operated by manufacturer or service to maintain guarantee	Included	Pos.	
		Identification of parts removable and sent to manufacturer/service	Included	Pos.	
		Conditions under which manufacturer/service is obliged to perform repair	Included	Pos.	
		 List of authorized service workshops 	Included	Pos.	
1		Information if spare parts can be purchased	Included	Pos.	
		Way of package and transport, if necessary	Included	Pos.	



Mechanic FBM -45 12.03	al Laborato	ory of PCBC	I	Report no.: BR		2-401/2008 ge: 10 of 12	
Requirements according to clause	Test method according to clause	Checked characteri	stics/assemblies/parameters	Real value	Test result	Comments	
		Content of specification	sheets of manufacturer				
Annex A	V/I	Manufacturer		Included	Pos.		
Annex A	V/I	Address		Included	Pos.		
Annex A	V/I	Model		Included	Pos.	1	
Annex A	V/I	Maximum mass of user		Included	Pos.		
Annex A	V/I	Overall length with legres	st	Included	Pos.		
Annex A	\mathbb{V}/\mathbb{I}	Overall width		Included	Pos.		
Annex A	V/I	Length after assembly		Included	Pos.		
Annex A	V/I	Width after assembly					
Annex A	V/I	Height after assembly		Included Included	Pos. Pos.		
Annex A	V/I	Total mass		Included	Pos.		
Annex A	V/I	Mass of the heaviest part		Included	Pos.		
Annex A	V/I	Static stability downhill					
Annex A	V/I		atic stability uphill				
Annex A	V/I	Side static stability		Included	Pos.		
Annex A	V/I			Included	Pos.		
Annex A	V/I	Energy range		-	N/A		
	V/I	Dynamic stability uphill		-	N/A	1	
Annex A		Determination of obstacle	es	-	N/A		
Annex A	V/I	Maximum speed forward		-	N/A		
Annex A	V/I	Minimum braking distance	e at maximum speed	_	N/A		
Annex A	V/I	Seat plane angle		Included	Pos.		
Annex A	V/I	Effective depth of seat		Included	Pos.		
Annex A	V/I	Effective width of seat		Included	Pos.		
Annex A	V/I	Height of seat to front edg	ge	Included	Pos.		
Annex A	V/I	Backrest angle		Included	Pos.		
Annex A	V/I	Height of backrest		Included	Pos.		
Annex A	₹/1	Distance of seat from foot	rest	Included	Pos.		
Annex A	V/I	Angle between seat plane	and legs	Included	Pos.		
Annex A	V/I	Height of armrest from sea		Included	Pos.		
Annex A	V/I	Distance of front part of a	rmrest from rear rest	Included	Pos.		
Annex A	V/I	Diameter of drive wheel		Included	Pos.		
Annex A	V/I	Position of wheel axis hor	izontally	Included	Pos.		
Annex A	V/I	Width of turning	and a state of the	Included	Pos.		
	TEST DES		I ICO 7176 16				
assessment of	results refer of full potential in	nly to inflammability of mater of ammability risk of ready which istics, description of the		ons. They are not	intended as		
sample of dura	able covering:		Upholstery made of durable, stren	igthened nylon in	black color	or .	
	of durable cov		No data		920 - 920		
sample of foar	n material/filli		Foam material, thickness 9mm, white colour				
	of foam materi	al/filling:	No data				
Test method:			Method A - smouldering cigarett	e.			
Conditioning of	of sample:		Temperature:	22°C	23	°C ± 2°C	
			Relative humidity of air:	50%	50)% ± 5%	
G 11.1			Time:	20 h	ent	16 h	
Conditioning o	of cigarette:		Temperature:	22°C	E 23	°C ± 2°C	
			Relative humidity of air:	50%	·\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)% ± 5%	
Post sandir			Time: Temperature: Relative humidity of air: Time:	20 h	Requirements 23	16 h	
Test condition:	8.		Lemperature:	22°C	10	°C – 80°C	
Time - C - 1	douber 1		Relative humidity of air:	50%		% - 80%	
ime of smoul	dering cigarett	e: -	18 min	. 17 m	nin.	18 min.	



FBM -45 12.03	cal Labor	atory of PCBC		Reg	ort no.:]		4/L-401/2008 Page: 11 of 12
More impo	rtant effects	noted during testing:	1) Partial meltin	g of upholstery prod	uct		9
(e.g. ignition of sample, extinguishing of sample, partition			2)	g specialty prod	uot		
of covering product etc.)			3)				
Times of occurrence of the more important effects:			1)	18 min,	11111	17 min.	18 min
			2)				10 111111
			3)				
C CC :	1 01 .		4)				
Scope of fai	dure of horiz	zontal part of upholstery	Length:	50		43	50
arrangemen	arrangement in mm:			15	100000	14	20
C	1 0		Depth:	3		3	4
Scope of fai	Scope of failure of vertical j part of upholstery		Length:	49		43	50
arrangemeni	arrangement in mm:			13		12	14
Tantina			Depth:	2		3	3
Testing perf	ormed by:		Mirosław Szyma	ński			3
	ne of starting	test:	8.10.2008 r., go	odz. 10°0			
Requirement s according to PN-ISO 7176-16	Test method according to PN-90 P. 04823	Checked characteris	Checked characteristics/assemblies/parameters			Test result	Comments
4.1.	2.4.1. 2.7. 2.8. 3.	Progressive smouldering and burning when upholstered parts of wheelchair are of hard covering with filling. Method A – smouldering cigarette.			Conf.	Pos.	Did not burn into flame
4.2.	2.4.1. 2.7. 2.8.	Progressive smouldering and burn wheelchair are of foamed materia Method A – smouldering cigarett	Progressive smouldering and burning when upholstered parts of wheelchair are of foamed material with skin.				

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.

Final ass	essment
PN-EN 12182:2002	Pos.
PN-EN 12183:2002	Pos.
PN-EN 12184:2002	N/A
ISO 7176-1:1999	Tested*
PN-ISO 7176-2:1998	N/A
PN-ISO 7176-3:1998	Pos.
ISO 7176-4:1997	N/A
PN-ISO 7176-5:2001	Tested*
PN-ISO 7176-6:1998	N/A
PN-ISO 7176-7:2001	Tested*
PN-ISO 7176-8:2002	Pos.
ISO 7176-9:2001	N/A
PN-ISO 7176-10:1998	N/A
PN-ISO 7176-14:2001	N/A
PN-ISO 7176-15: 2002	Pos.
PN-ISO 7176-16:2001	Pos.

^{*)} The standard does not specify requirements towards tested parameters of product

Note: Conformity assessment of product according to standard requirements refer to the scope of mechanical tests ordered by client



MARKING VERIFICATION

Name of product: Manually propelled wheelchair DOLPHIN

Applicant:

MOBILEX Sp. z o.o. 90-540 Łódź, ul. Radwańska nr.23/1

Requirement according to PN-ISO 7176-15:2002		Durable marking on wheelchair
8.1.a	Name and address of manufacturer	YES
8.1.b	Identification of model and serial number	YES
8.1.c	Year of production	YES
8.1.d	Information on likely driver constraints	N/A
8.1.e	Maximum mass of user	YES
8.2	Marking of dimension on tyres	YES
Requirement according to PN-EN 12183:2002		Durable marking on wheelchair
8.2	Marking of adjustment device, which causes static stability lower than 10°	N/A
	CE marking*	YES

N/A - not applicable

CONCLUSIONS:

Assessment result of marking product specified above:

Non-conformities with requirements of PN-EN 12183-2002 i PN-ISO 7176-15:2002 were not stated.



^{*)} CE marking placed on product and in documentation should meet the requirements of Annex XII to directive 93/42/EEC and clause 2 of the Act of 20 April 2004 on medical products (Journal of Laws no. 93)



MANUFACTURER:

MOBILEX A/S.

ADDRESS:

Noerskovvej / DK - 8660 Skanderborg

SPECIFICATION SHEETS OF MANUALLY PROPELLED WHEELCHAIR - DOLPHIN

	Test data (ISO)		
Lp.	Characteristics/parameters	Value	
1	Maximum mass of user	120kg	
2	Overall length of wheelchair with legrest and	1065mm	
	footrest		
3	Overall width	713mm	
4	Minimum length of folded wheelchair	774mm	
5	Minimum overall width of folded wheelchair	320mm	
6	Minimum height of folded wheelchair	963mm	
7	Overall mass of wheelchair	16,75kg	
8	Mass of the biggest component	8,85 kg	
9	Static stability of wheelchair positioned	21°	
	backwards up to the slope		
10	Static stability of wheelchair facing up to the	10°	
	slope (backwards)		
11	Static stability of wheelchair positioned	23°	
	sideward up to the slope		
12	Angle of seat plane	10,4°	
13	Effective depth of seat	440mm	
14	Effective width of seat	530mm	
15	Height of front edge of seat plane	500mm	
16	Angle of backrest	12,5°	
17	Height of backrest	440mm	
18	Distance of footrest from seat	480mm	
19	Angle of legrest	107°	
20	Height of armrests	235-310mm	
21	Position of the front of armrests	355mm	
22	Diameter of drive wheel	534mm	
23	Diameter of driving wheel	596mm	
24	Diameter of castor/front wheel	198mm	
25	Displacement of wheel axis horizontally	65mm	
26	Width of U-turn limited by spacing of walls	1250mm	

The propelled wheelchair meets the requirements of the following standards:

- PN-EN 12182
- PN-EN 12183
- ISO 7176-1
- PN-ISO 7176-3
- PN-ISO 7176-5
- PN-ISO 7176-7
- PN-ISO 7176-8
- PN-ISO 7176-15
- PN-ISO 7176-16