

TEST RESULTS according to PN-ISO 7176-3

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Test result	Opinion	Comments
PN-EN 12183 9.2 Tab. 1	7.1 V/I Measur.	Effectiveness of parking brake of wheelchair positioned forwards down the slope	Conf. 15,0°/15,0° *) wheelchair slides down wheelchair slides down	Pos.	No rotation or wheel spin when wheelchair is on inclined plane of 7° slope (requirements of PN-EN 12183 cl. 14 Tab. 1)
PN-EN 12183 9.2 Tab. 1	7.1 V/I Measur.	Effectiveness of parking brake of wheelchair positioned backwards down the slope	Conf. 20,5°/25,0° *) wheelchair loses stability wheel rotate	Pos.	
PN-EN 12183 9.2 Tab. 1	PN-EN 12183 cl.14 fig5 Measur.	Measurement of force acting on brake lever	30/20 N Conf.	Pos.	Below 60 N force engaging hand-brake is required (requirements of PN-EN 12183 cl. 14, Tab. 1)

NOTE: Measurements were made in the wheelchair with factory regulations (photo), legrests 165 mm over base,

*) X⁰ - seat in the rear position, X⁹⁰ - seat in the front position

TEST RESULTS according to PN-ISO 7176-8

Requirements according to clause	Test method according to clause	Checked characteristics/assemblies/parameters	Test result	Opinion	Comments
4.	8.4.	Armrest – resistance to forces acting downwards	--	N/T	loading 38 kg
4.	8.5.	Footrests - resistance to forces acting upwards	--	N/T	loading 40 kg
4.	8.6.	Anti-tip levers	--	N/A	
4.	8.7.	Grips	--	N/T	loading 750N
4.	8.8.	Armrest – forces acting upwards	--	N/T	loading 52 kg
4.	8.9.	Footrest – forces acting upwards	--	N/T	
4.	8.10.	Handle grips for pushing – load acting upwards	--	N/T	
4.	9.3.	Backrest – impact strength	--	N/T	25kg pendulum impact
4.	9.4.	Driving wheel – impact strength	--	N/T	10kg pendulum impact
4.	9.5.	Castor/front wheel – impact strength	--	N/T	10kg pendulum impact
4.	9.6.3.	Footrest – side impact	--	N/T	10kg pendulum impact
4.	9.6.4.	Footrest – in-line impact	--	N/T	10kg pendulum impact
4.	9.7.2.	Frontal part of wheelchair – directly impact	--	N/T	10kg pendulum impact
4.	9.7.3.	Frontal part of wheelchair – displaced impact	--	N/T	10kg pendulum impact
4.	10.4.2.	Testing of manually propelled wheelchair on two-drum machine	Conf.	Pos.	200 000 of cycles with full loading of wheelchair (40kg)
4.	10.4.3.	Measurement of initial current for electrically powered wheelchair	-	N/A	
4.	10.4.4.	Testing of electrically powered wheelchair on two-drum machine	-	N/A	
4.	10.5.	Drop testing	Conf.	Pos.	6666 drops of wheelchair with full loading (40kg) from height of 50mm

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

NOTE 2: Sample/object for testing was delivered to the Laboratory by the Orderer.

NOTE 3: Test dummy of mass 40 kg and person of required mass were used for testing.

NOTE 4: Environment temperature for testing – 19°C.

Final assessment

PN-EN 12182:2012	N/T	ISO 7176-4:2008	N/A	ISO 7176-10:2008	N/A
PN-EN 12183:2014	Pos.	ISO 7176-5:2008	N/T	PN-ISO 7176-14:2001	N/A
PN-EN 12184:2014	N/A	ISO 7176-6:2001	N/A	PN-ISO 7176-15: 2002	N/T
ISO 7176-1:2014	Tested*	PN-ISO 7176-7:2001	N/T	PN-EN 1021-1:2007	N/T
ISO 7176-2:2001	N/A	PN-ISO 7176-8:2002	Pos.	PN-ISO 7176-19:2007	N/T
ISO 7176-3:2003	Pos.	ISO 7176-9:2009	N/A		

*) 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, excluding testing of material biocompatibility with human body according to PN-EN ISO 10993-1:2010

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