

TEST REPORT EN 12184

Electrically powered wheelchairs, scooters and their chargers — Requirements and test methods

Report Number....: Qst-23N090071-1SR

Date of issue....:: 2023-09-26

Total number of pages:: 43 pages

Name of Testing Laboratory Shenzhen Qstlab Testing Co., Ltd.

Distric, Shenzhen, Guangdong China

Applicant's name: Ningbo Youhuan Automation Technology Co., Ltd

Address.....: No. 135, Xujia, Gujia Village, Jiangshan Town, Yinzhou

District, Ningbo, Zhejiang. CN

Test specification:

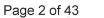
Standard: EN 12184

Test procedure: CE-MD

Non-standard test method: N/A

TRF template used.....: /

Test Report Form(s) Originator: OVE



Report No. Qst-23N090071-1SR



		1 100 11	S. 10-751 M/T	20 DOM: NOT		
Test item description::	power	wheelchair				U/
Trade Mark:	1		in S			roh.
Manufacturer:	No. 13	Youhuan A 5,Xujia, Guji	a Village, Jia			
Model/Type reference:	YH-E7 YH-E6 E6007	002B, YH-E Y, YH-E6010,	6001, YH-E 6003,YH-E6 YH-E6011,	004, YH-E6 YH-E6011	-E6002, YH-E 6005, YH-E60 4, YH-E7001, E7001B, YH-	06, YH-
Ostlab Ostlab	YH-E7 E7007 E7011	7003, YH-E70 7, YH-E7007, , YH-E7012, PB, YH-E600	004, YH-E70 A, YH-E7008 YH-E7013	005, YH-E70 3, YH-E700 , YH-E6012	005A, YH-E7 9, YH-E7010, , YH-E6012A 5013, YH-E60	7006, YH- YH- , YH-
Ratings:	110/23	BOVAC, 50/60)Hz, Output:	20V-12A,Inj	out power:28	8WH
Responsible Testing Laboratory (as a	applica	ble), testing	procedure	and testing	g location(s)	.100
	050	Shenzhen (Qstlab Testin	g Co., Ltd.	J. J.	Q51P
Testing location/ address	:		4,Lane 1, Ta ric, Shenzhe		den, Xin'an S ong China	treet,
Tested by (name, function, signature):	Nick Yang		611-	1. 1000	
data data	ab		tab	NZC	2 0 1 1 1 1 1	Ingc
Approved by (name, function, signate	ure):	Mike Chen	134	0	Coella	b):
ostlab ostlab		Ostlab	Ost ^{ja}	Mik	che Che	
Testing procedure: CTF Stage 1	: fa		. Is	- To	APPRO	Ta .
Testing location/ address		16	100	OSCIOL	06	130
Tested by (name, function, signature					1,00	
Approved by (name, function, signat	ure):	أراب		العامد	العام	
Testing procedure: CTF Stage 2	<u> </u>			200		-
Testing location/ address	(1)		Jab		ıab	des
Tested by (name + signature)	Option :		Q51 ²²	05		Q5Ua
Witnessed by (name, function, signate	ture) .:	16.	1-			l-
Approved by (name, function, signat	ure):	nst ^{jati}	adali	A C	netlall	ost ^{ja D}
☐ Testing procedure: CTF Stage 3	3:					
☐ Testing procedure: CTF Stage 4	- 1		Action 7	A	180	adali
Testing location/ address	W.		UP.	Ų		
Tested by (name, function, signature):			La19	60/1	
Witnessed by (name, function, signate	ture) .:	OSTA	051		050	
Approved by (name, function, signate	ure):		~			



Report No. Qst-23N090071-1SR



Supervised by (name, function, signature):

-Attachme	achments (includ nt 1: Photo attachm		er of pages in each	attachment):	Us. Ast
ostlab	ostlab	ostlab	ostlab	ostlab	ostlab
Summary	of testing:	*		=	
clause):	formed (name of t		Testing locati	ab Testing Co., Ltd.	05/10
Full test an	e carried out on RA	APTOR11	No. 208, No. 4	, Lane 1, Tangfang Ga District, Shenzhen,Gu	
Full test an	e carried out on RA	APTOR11 Ostlab	No. 208, No. 4 Street, Bao'an	, Lane 1, Tangfang Ga	
Full test an	re carried out on RA	APTOR11 Ostlab Ostlab Ostlab	No. 208, No. 4 Street, Bao'an	, Lane 1, Tangfang Ga	

 \boxtimes The product fulfils the requirements of EN 17128: 2020 (insert standard number and edition and delete the text in parenthesis or delete the whole sentence if not applicable)



Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

power wheelchair

Model: YH-E7001A

Rating: 110/230VAC, 50/60Hz, Output:20V-12A,Input

power:288WH





Ningbo Youhuan Automation Technology Co., Ltd



Test item p	particulars	U2**	pov	ver wheelchair	(D)	D.	W.
V 175		(a)		tal5	r.di		rah
Degree of	protection		: / /	A COLO	OSTION	0	(Uall
Rated insu	ulation voltage	(if applicable)	: /		66		
Possible to	est case verdic	ts:	الماد		الماس	طماح	
- test case	does not apply	y to the test objec	t: N/A		0511	O21-	Q51
- test objec	ct does meet th	e requirement	P (F	Pass)			
- test objec	ct does not me	et the requiremen	t: F (F	ail)	netl	10	adla ^D
Testing	W	W.	:	W.			D.
Date of rec	ceipt of test ite	m	: 202	3-09-18		ıh	1.0
Date (s) of	performance of	of tests	202	3-09-18 to 20	23-09-26	Ostle	OSTELL
General re	marks:	la .	. fa	la		. la	
		to additional inforr ers to a table appe			ort.	itau	Ostlal
(See appe	ilueu (able) Tel	ers to a table appe	naea to the re	port.			
☐ This Te	est Report Forr Corrigendum da	□ comma / ☑ p n contains require ted /be removed if not	ements acco		Utp.	//5	ed and
SCHE!	- AND -	on per sub-clause	., ,	=F 02·		IV.	OSPIAN
		-	T				168"
includes modeclaration sample(s) s	ore than one fac from the Manuf submitted for ev		the	Yes Not applicabl	ė Os	tlab Ostla	b
		cts from each facto		. 1s	. Ja		[6
been provid	ueu	75		421/	nstlav	0	1001
When diffe	erences exist; t	hey shall be ident	ified in the G	eneral produ	ct informa	tion section.	
Name and	address of fac	ctory (ies)	. Nin	gbo Youhuan	Automation	Technology	Co., Ltd
Stie	Ostron	OSTIN	No.	135,Xujia, Gu vn,Yinzhou Di			v 051
General pi	roduct informa	tion and other re	marks:	10/2		c.h	. Lala
1.12	ict is power whe		pr.	05110	05		OSTOR
		construction, only	different in th	e model nam	e.		(64)
-So all the	test o the mode	ı ∨H-⊢/∩∩1∧					
OSTAL	OSTAD	111-L7001A	ostlab	ostlab	nstlal	ostlab	nstal



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الوام	adlal) adlal)	EN 12184	tlab adlab adlab	0.48
Clause	Requirement + Test	U. U	Result - Remark	Verdict

a _ 1/2		a self	
4	Test apparatus		Р
stlab	Horizontal test plane, of sufficient length that the wheelchair can reach its maximum speed and decelerate to a stop. The horizontal test plane shall be dry, free from ice, and free from loose material	ostlab ostlab	Osti
Ostlab	(such as gravel). The horizontal test plane shall include a test area consisting of a continuous, flat, rigid surface with a coefficient of friction as specified in ISO 7176-13:1989, inclined to the	Qstlab	Ostlab
a.i Istlab	horizontal at less than 0,5°. The surface of the test area shall lie between two imaginary parallel planes 5 mm apart per 1000 mm of extension in any direction and 50 mm apart per 6 000 mm of tension in any direction. The test area shall be of sufficient	tlab ostlab ostlab	Ostlab
Ostlab	size to complete the specified manoeuvres, except for acceleration and deceleration, which may occur outside the test area when they do not affect the test results	b Ostlab	Ostlali
()	The requirements for the test area do not apply to the parts of the horizontal test plane outside it, bu the properties of all parts of the horizontal test plane, including any transitions at the edges of the test area, shall be sufficiently similar that the test	Ostlab Ostl	P
Stan -	results are not affected. Inclined test plane, of sufficient length that the	Ostlav	Ostian
Qstlab	wheelchair can reach its maximum speed and decelerate to a stop. The inclined test plane shall be dry, free from ice, and free from loose material (such as gravel). The inclined test plane shall include a test area consisting of a continuous, flat,	Ostlab Ostlab	
4.2	rigid surface with a coefficient of friction as specified in ISO 7176-13:1989, inclined to the horizontal at the specified angle ±0,5°. The surface of the test area shall lie between two imaginary	Qstlab Qst	ab P
stlab	parallel planes 5 mm apart per 1 000 mm of extension in any direction and 50 mm apart per 6 000 mm of extension in any direction. The test area shall be of sufficient size to complete the	ostlab ostlab	Ost
Ostlab	specified manoeuvres, except for acceleration anddeceleration, which may occur outside the test area when they do not affect the test results. The requirements for the test area do not apply to	ostlab	Qstlab
Ostlab	the parts of the inclined test plane outside it, but the properties and slope of all parts of the inclined test plane, including any transitions at the edges of the test area, shall be sufficiently similar that the test	tlab Ostlab Ostlab	Ostello
OSLIAD	results are not affected. The inclined test plane may have a fixed or adjustable slope. Where the slope is fixed, it can be necessary to use more than one inclined test plane.	do Ostlab	(Pallala
4.3	Means to apply a force between 25 N and 200 N with an accuracy of ±5 % and with a rate of application less than 5 N/s.	Ostlab Ostlab	Р



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الواد	الوادر	100	EN 12	184	وافاحت وا	الهام		
Clause	Requirement -	+ Test	0,	Q3°	Result - Remark	O.	Verdict	
4.4	56.05007	asure force in inc 200 N with an ac			ostlab	ast	all P	
4.5		asure speed beto curacy of ±5 %.	ween 0 km/h	and 25			Р	
4.6	Means to measure distance in the range 0 m to 5 m with an accuracy of ±1 mm or ±2 %, whichever is the greater.							
4.7 tlab	Supplemental occupant to a specified by the similar mass of 4.9.	D to	Ostlab P					
4.8 elab	Test block cap wheelchair un and width 200 Table 3 'grour greater than 2 the whole of e imaginary hor	der each of its von the control of t	vheels, with thickness give and corner retwo large suell lie betweed mm apart.	length ven in adii rfaces, n two The	dau ostau da os	Ostiali tiab	OSTALIA OSTALIA	
	7176-13:1989	1754		-dll	ostali		b	
4.9	ISO 7176-11:	of appropriate m 2012.	nass, as spe	cified in	4	W.	Р	
4.10		asure torque in to accuracy of ±2		5 Nm to	Ostla	D	OS P	
4.11	Means to mea	asure angles to a	an accuracy	of ±0,1°.	delt	. ralb . ralb	Р	
4.12		ve a brake lever equency of not m			OSDE OS	Oglio.	Р	
4.13		asure elapsed tir ccuracy of ±1 s.		nge 0 s to	ostlab	ρ¢	ab P	
5	Type classe	es		Ur.	W.		Р	
stlab	28.271.007	shall be classifie hree classes, de			Ostlab	2stlab	RD5 ¹	
actlab		elchairs intende faces and gentle		on flat) ad	ab	N/A	
ostlab	-Class B: whe moderately ur	elchairs intendence a surfaces a lition to the inter	d for driving and on mode	erate	tlab octlab	ostlab	P	
w.	-Class C: whe	elchairs intenden and on steepe uses described f	r slopes, in a	addition to	.ln	rali	P	
	Requirements Table 3.	specific to each	n class are g	iven in	05	Dale	P	
6	General req	uirements	-	ab	والقامية	العامم	Р	
6.1	Risk manage		0"		Q.	(D)	Р	

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.iaD	المني الأمني	Page 8 of 43 EN 12		10 Mail	JST-23N090071-15H
Clause	Requirement + Test	Q51 lb	051	Result - Remark	Verdic
gstlali	A risk management produce accordance with EN ISC conformity with this docrisk management proce 14971:2019 8) shall be	D 14971:2019 7). Full of the second of the s	or s of the	Ostlab	Ost all P
STEW	-the planning for, and expost-production monitor 4.1 fourth indent, 4.4 ite	xecution of, producting (EN ISO 1497	1:2019 9),	Ostlan Os	P)S
Ostlab	-periodic reviews of the management process (E third paragraph).	suitability of the ris	sk	ostlab	ostPb
6.2	Intended performance documentation	and technical		rali rali	P
Silver	a) The wheelchair shall durability to sustain all le intended use. This shall	oads expected dui	ing	Ostion Ostion	Ostino Ostino
Ostlab	where appropriate, refer and scientific literature, calculations, appropriate their test results, in addi- given in this document.	rences to relevant strength and/or du e test standards an ition to the require	clinical rability nd	ib Ostli	of the state of th
stlab	b) The intended perform including, where appropriate and tipping stability, shat documentation which see characteristics, its applieduse.	oriate, strength, du all be described in ets out its function	rability technical al	Ostrab	Ostu
Ostlab	c) The technical docume where appropriate, refer and scientific literature, calculations, appropriate test results.	rences to relevant any strength and/o	clinical or life	Ostlab Ostla	b Ostlati P
6.3	Clinical evaluation and	d investigation	ostlab	ostlab	OST P
[6	A clinical evaluation sha wheelchair.	all be conducted fo	r the	[8	P
Stan	If, as part of the product the clinical evaluation re investigation, the clinical	equires a clinical al investigation sha		Ostlan Os	Q5
Qstlab	conform to the requirem 14155:2020. A clinical e conducted before perfor investigation.	evaluation shall alv	ays be	Ostlat	Ostla
6.4	Wheelchairs that can I	be dismantled	b a	tlab nstlab	nstall nsPol
ostlab	If it is intended that the dismantled for storage of be possible to reassemble manner that presents a	or transportation, it ble the wheelchair		ib ost ^{je}	d P Ostli
6.5	Single-use fasteners				N/A





الواب	241010	101	EN 12	2184	راوايي رار	wild)	201
Clause	Requirement -	- Test	Qr.	03.	Result - Remark	U"	Verdict
still .	If it is intended dismantled for fasteners which this dismantlin	storage or tra h are loosene	nsportation, t d or removed	he to allow	Ostlab	Ost	N/A
6.6	Biocompatibi	lity and toxic	ity	dati	ostlab o	stlab	P
ostlab	Materials which body shall be accordance where the risk management of the control	evaluated for b th EN ISO 109	oiocompatibili 993-1:2020 a	ty in	ostlab)	Ph
astlab	The evaluation use, including occupant, and the occupant, and storage of	where appropassistant, those and those invo	oriate, contacte involved in blved in trans	t with the care of	dab Ostlab	Ostlab	Ostleb
Ostlab	Wheelchairs s to minimize the from them. Sp substances wh toxic to reprodu	e risks posed I ecial attention nich are carcin uction and oth SVHCs). The	by substance shall be give ogenic, muta er substance evaluation sh	s leaking n to genic or s of very	ostlab	ab ostl	Ostlati D
6.7	Contaminants	s and residue	S	sar Ta	6		Р
6.7.1	General	Qstille		Qstlan	Ostlilla		(5 P
Ostlab	The requirement substances who wheelchair or as oil and great body fluids who collect (e.g. as	nich are an into are necessary ase. The requi ich the wheeld	egral part of t for its function rements do nather is intendent	on, such ot apply to	Ostlab Ostl	ab Ostlab	P
6.7.2	Substances v	vhich can lea	per l	d use or	Ostro	05	Р
relab	Where a subsi			eelchair in	octlab o	ctlab	Pod
ostlab	a) the substant biocompatibility 10993-1:2020 process, and to intended use,	y in accordand as part of the he assessmer including, who	ce with EN IS risk manage at shall considere appropria	ment der te, contact	o cota	b	Q:Plab
ostab	with the occup care of the occ transportation b) the wheelch that minimizes becoming a bi	cupant, and the and storage of a storage of a storage of a storage of the storage	nose involved f the wheelch means of pro of the subst	in air; or tection	dab ostab	ostial)	Ostlab P
6.8	Infection and	microbiologi	cal contamii	nation	Q5D		Р
6.8.1	Cleaning and	dicinfootion		. In	[6	. la	Р





الالاب	الفام		EN 12		راهای را	Q31 231103007 1 101
Clause	Requirement	+ Test	O.	U3	Result - Remark	Verdict
stlali	cleaned, the	f the wheelcha method and su I be described	iitable materia	ls for	Ostlab	Ost 3b P
stlali	disinfected, the disinfection suse.	f the wheelcha ne method and hall be describ	suitable mate ed in the instr	erials for uctions for	Ostlab Os	Pjsi
Ostlab	cleaned by a	f the wheelcha utomatic washi m or steam wa uch as tempera	ing systems o shing, the det	r hand- ails of the	Ostlab	Qstlab
stlab	pH value of c described in t practicable, tl	leaning/rinsing the instructions ne wheelchair ymbols to repr	solution, sha for use. Whe shall be labell	II be re ed with	tiab Ostiab	ostlab ostlab
6.8.2	Animal tissu	e	Ostlan	Ost	Ostla	N/A
	utilizing tissue the process s	neelchair has best of animal or specified in EN wed as part of 6.1).	igin or their de ISO 22442-1	erivatives, :2020	Ostlab	N/A
6.9	Overflow, sp liquids	illage, leakag	e, and ingres	s of	Ostlab	N/A
6.9.1	Overflow	Jab		do	ور الور	N/A
6.9.1.1	Requiremen	ts OS	Ost		OSTA OSTA	N/A
stlab	storage cham overflow in in the reservoir	nair incorporate ber that can b tended use, lic or chamber sh	e overfilled or Juid overflowir all not wet ele	can ng from ectrical	Ostlab	Ost ab
stlab	adversely afformation and adversely adversely afformation and adversely adversely afformation and adversely adversel	ive parts which ected by such a cated. Unless in the cated. Unless in the cated wheelchair is the cated and the ca	a liquid, nor sindicated by a e, no hazard s	nall a marking shall be	Ostlab Ost	N/A
Ostlab	15° greater th	nan the maximi intended use.			ostlati	ostalo
6.9.1.2	Test method			.ls	in in	N/A
OSTA		oir to the maxi urer and, if pos			Cellan	ON/A
ostlab	reservoir or u		oir is full, whic	hever is	ıb ostla	N/A
0	to the horizor rated slope s	chair through a ntal in each dire pecified by the essary, refill the	ection, where manufacture	a is the (see	Ostlab	Ostab N/A



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الواي	EN 12184	ab adab adab	
Clause	Requirement + Test	Result - Remark	Verdict
estab	Inspect the wheelchair, including any electrical insulation and any uninsulated live parts, to determine whether the requirements have been met. For electrical insulation, in case of doubt, subject the wheelchair to the dielectric strength test	Ostlab oab	N/A
stia"	specified in EN 60601-1:2006 11).	Ostlar Ostlar	- 041
6.9.2	Spillage		N/A
6.9.2.1	Requirements	QstlaD	N/A
الفائد	Wheelchairs requiring the handling of liquids in intended use shall be so constructed that spillage does not wet parts that creates a hazard.	Hab octlab octlab	N/A
6.9.2.2	Test method	W W	N/A
Ostlab	Position the wheelchair on the horizontal test plane. Pour 200 +5 0 ml water steadily on an arbitrary point on the seat.	ib Ostlab	N/A
	After the test, the wheelchair shall function as specified by the manufacturer.	artlab) N/A
6.9.3	Leakage	U ^p U ^p	N/A
ist ^{lab}	Wheelchairs shall be so constructed that liquid which can escape in single fault condition does not create a hazard.	QstlaD	N/A
6.9.4	Ingress of liquids	Jain dalen dalen	Р
6.9.4.1	Requirements	Or Or Or	Р
35120	If liquid can enter an enclosure unintentionally, either there shall be a means for the liquid to escape from the enclosure, or the liquid shall not create a hazard.	Ostlab Ost	P
6.9.4.2	Test method	ostlab ostlab	Post
Qstlab	Test whether the liquid can escape from an enclosure by adding liquid and then tilting the wheelchair 10° in each direction. If any liquid remains in the enclosure, test the wheelchair to determine whether it is still functional, and determine whether the liquid can create a hazard.	Ostlab	QS ^P (D)
6.10	Safety of moving parts	tlau Ostlau Ostlau	P
6.10.1	Squeezing	المد. ال	P
Office	Unless the intended purpose of part of the wheelchair is to grip, cut, squeeze or provide a similar function, or if the intended use cannot be achieved without a risk of squeezing:	Ostre Jab	P
0	a) any moving parts that constitute a hazard shall be provided with guards that cannot be removed without the use of a tool; or	Q50-	Р



Qstl	ab	Ostlab	05	tab	Ostla) ()	19074 467
المار ا	راها.	.iali	ege 12 of 43 EN 12184	.10	Repo	rt No. Qst-23N09	90071-1SI
Clause	Requirement + Te	st	EN 1210-	OSIL	Result - Remai	·k	Verdict
Ostlab	b) the gap betwee wheelchair that me maintained throug less than the relevant in	ove relative to hout the rang- ant minimum	each other so e of movemer value or more	nt at	Qstlab	Q\$ ^l	p P
V addil	1; or	Act 20	A-101		ostlav	nst ^{gl)}	- 66
Qstlab	c) if cords (ropes), either they shall be run off or jump out hazardous situation means; mechanica shall not be remove	e confined so t of their guidi on shall be pre al means used	that they can ng devices, or vented by oth d for this purp	not r a ner ose	Q!	tlab	QSD PD
Ostlab	d) the wheelchair which enables the and stops the mov spring-loaded dev position when rele	movement w vement when ice that return	hen it is opera it is released (ated	tlab Ost	ab Ostlab	05 P
OST ^{IBIO}	e) the wheelchair that a person is in prevent injury auto movement).	danger of bei omatically (e.g	ng trapped ar . by stopping	nd to	uali)	Ostible	P
ostlab Ostlab	For moving parts of manufacturers shador parts of the boot to specify the charminvolved in the intropropriate safe of	all take into co dy that are at racteristics of ended use, so	nsideration thrisk. It is nece the persons that the		Qstran Qs	ost tlab	P Ostlab
6.10.2	Mechanical wear	[6			. 16	lsl	Р
Ostlan	Parts subject to m hazard shall be ac			ate a	Ostian	Ostlan Ostla	Р
6.10.3	Emergency stop	ping function	s	della	atlab		gb P
actab	The requirements moving parts of th a risk that the occ single fault can cre	e body suppo cupant can be	rt system if the squeezed or	ere is	octab	ostlab	P
6.11	Prevention of tra	ps for parts o	of the human	body	U.	U'	Р
6.11.1	Holes and cleara	nces of	b	Ostla	, (istab	O.P.
ostlab ostlab	Holes in, and clea that are accessible during the intende as specified in Tal	e to the occup d use of the wole 2.	ant and/or as heelchair sha	sistant all be	tab ost	ab ostlab	Ostrali
Ostlab	If the intended purmet without a haze and the clearance warning and instrushall be provided	ard caused by between statuctions on hov	the size of he tonary parts, and to control the	oles a	de	Ostlab	Pilal



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	العام	الماد	EN 12	2184	الهاني الله	الهادر	
Clause	Requirement +	Test	051		Result - Remar	k	Verdict
15tlal0	For stationary parts of the bospecify the chain the intended distances can l	shall take in ody that are aracteristics use, so tha	nto consideration at risk. It is neo of the persons	on the cessary to involved	Ostlab	(dab	P
- la	The design of p shall take into applied in norm	parts that co considerational use.	n the forces th	at can be	(D)	Q) or	Р
Ostlab Istlab	The lower limits for holes with the shaped opening for traps for bound elasticity of adjaccount.	he shape of gs. When in dy parts any	a keyhole, or to specting the way flexibility and	or V- heelchair or	dab ost	ab Ostlab	Ostlab P Ostlab
6.11.2	V-shaped ope	nings	(a)		(1)	talt	N/A
01	The risk of entribe addressed to (see 6.1).					OSUM	N/A
6.12	Folding and a	djusting me	echanisms	Ostlab	Ostlati	0	still P
6.12.1	General	.0	-10	.tal		راه).	P
Kilo.	Folding and ad hazard if parts parts and be tra	of the body	can enter a ga	p between	Q5	(Ja-	Q5000
Qstlati	If the wheelcha adjusting mech and 6.12.3.				Ostlab	ost ^{jab} ost	P
6.12.2	Locking mech	nanisms	tab	dab	dala		P
stlab	Folding and ad of being secure in a working co capable of beir they constitute safe manner.	ely locked w onfiguration. ng securely l	hen the wheel They shall also ocked when fo	chair is o be olded if	Ostlab	Qstlab	P Qsi
6.12.3	Guards	þ	ostab	adl)	dab	Pali
W.	Either:		u'	W	u.		Р
Ostlab	a) the wheelch protect the occ hazards; or	supant from	trap and/or squ		stlab Ostl	ab Ostlab	() P
ostlab	b) the gap between wheelchair that maintained throless than the a than the application 1; or	t move relate oughout the pplicable mi	ive to each oth range of move nimum value o	ement at or more		Ostlab	(Ast ^{ja)}



القاب	-18D	187	EN 12	184	راقاب را	الهاب	
Clause	Requirement -	- Test	U2"	W.	Result - Remark	127	Verdict
Stali	c) if the intend be met withou warning and ir shall be provide	t a hazard suc estructions on	h as squeezir how to contro	ng, a Il the risk	Ostlab	OST	ab P
stab	The design of the forces that				ostab	estlab	P
6.13	Surfaces, cor	ners, edges a	and protrudir	ng parts		da.	Р
Ostlan	If not required corners and so smooth and be	urfaces of the	wheelchair sh	all be	Ostli	עו	()S P
stlab	If not required not have protr protruding par injury and/or d	uding parts. W ts shall have p	here practica	ble,	dab ostlab	Ostlab	Qs ^P
6.14	Ergonomic p	rinciples	nstlab	nelli	b no	dab	Pla
rstlal ^b	Wheelchairs s the ergonomic 1:2006+A1:20 needs of the ir principles set apply to an as wheelchair oc transportation	principles set 09, taking into ntended occup out in EN 614- sistant, those cupant, and th	out in EN 614 account the spant. The ergo 1:2006+A1:2 involved in cause involved	4- specific onomic 009 also are of the in	Ostlab Ostla	Qst ^{li}	b P
ostlab	Grips, handles functional anain accordance following requi	omy of the occ with the intend	cupant and/or	assistant,	ostiali os	tiab ostiab	Р
Stab	a) the distance to be gripped) than 10 N and not be less tha	requiring an o	perating force	e of more	Ostlab	OST	ab P
stab	b) the vertical of a foot suppo and any other less than 75 m	ort or pedal in part of the wh	its operating p	oosition	Ostlab	ostlab	P
delta	c) the diameter requiring an of be between 19	perating force	of more than		2	ab	P
(D)	d) the upper su operation by a	n assistant sha			L L	· · · · · · · · · · · · · · · · · · ·	Р
ASTAD	300 mm above	7519	nath	aD ne	dall called	nstall	
6.15	General modi	fications to n	ormative refe	erences	W.	W.	Р
Ostlab	For the purpos document sup the normative concerning ma occupant mass	ersedes any re references liste iximum speed	estrictions in se ed in Clause 2	copes of	alo Qs	tlab dete	P
6.16	Applicable pr	ovisions for	specified typ	es of	Q5.1	Oph	Р



Qstl	ah Osti	ab Ost	ab	Ostlab	Q ⁵	tlab
Q J L I	cili cili	Page 15 of 43		Report N	lo. Qst-23N09	0071-1SR
Olavea	Deminorate Table	EN 12184	OST	Danit Diment	OSTIBLE	Varieties
Clause	Annex G specifies the proventhat apply to some specifies Wheelchairs of types listed applicable requirements of	d types of wheelch I in G.1 shall meet t	air.	Result - Remark	Ost	Verdict P
6.17	Recommendations	ostlab		ostlab (astlal)	Post
- 14	The following annexes pro	vide recommendati	ons:		ls.	P
Ostal	-Annex A for dimensions a	nd manoeuvring sp	ace;	Ost ^{ju}	V	P
طفاء	-Annex B for design feature	es;;	Al	dab adiab	الفائد	Pab
(D)	-Annex C for lighting and re	eflectors;	UP	U.	War.	Р
05/18/0	-Annex E for safety in free	wheel mode.	Ostli	D 05	tlab	Callan
7	Preparation for testing		.fr	المار	-1	P
7.1	General	050		QSDa	0510	Р
ostlal)	Unless otherwise specified and 12, the wheelchair sha as specified in ISO 7176-2 modification.	all be prepared for t 2:2014 with the foll	esting lowing	Ost ^{jø}	b	OSIP ^D
Ostlab	If a test procedure requires or human test occupant, the fitted as specified in 7.2 or supersedes instructions for in the referenced standard.	ey shall be selecte 7.3. This instruction loading the wheel	d and n	Ostlab Ost	iab ostlat	P
251 lali - + lali	If, due to the speed of the plane specified in a referer insufficient size to conduct the horizontal test plane spinclined test plane specifie	wheelchair, the test need document is o the specified tests, pecified in 4.1 or an	f use	Qstlau - elab	Ost	P
7.2	Test dummy	050		(250" (Jacon State of the	Р
Ostlab	Select a test dummy, as sp 7176-11:2012, of mass eq occupant mass specified b manufacturer, with a tolera	ual to the maximun y the wheelchair		Ost	ab	OPIAD
ostiab	Fit the test dummy in the w ISO 7176-22:2014.			dab ostlab	Ostab	P
7.3	Human test occupant	John .	16	.0	(a)	P
Ozlan	Select a human test occup combination with any supp specified in 4.7, is equal to mass specified by the whe with a tolerance of 0 kg to	lementary weights the maximum occu elchair manufacture	as upant	OS OSTAD	actiab	P



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الالاب	الهام	-400	EN 12	184	ال ال	الهاب ال	
Clause	Requirement + T	est		(1)3**	Result - Rema	ark	Verdic
gstlab	Seat the occupa and secure the substantially the dummy when fitt 7176-22:2014.	supplementary same mass o	v weights to listribution a	give	Ostlal) (ali	Ostab P
Stan	WARNING — T to a human test Appropriate safe avoid injury.	occupant and	other test p	ersonnel.	QSÜDÜ	QStilan	P
8	Wheelchair pe	erformance		Q5Da	0	351	05 P
8.1	Driving charact	eristics	octials		dal) no	tlab actio	b Pb
8.1.1	General	Ü>.	Ü,	U	. 0		Р
Ostlab	The loaded when performance required Table 4 for the type specified in Clau	uirements sports of the	ecified in Ta	ble 3 and	D.	Ostlab	CP ^d
	The rated slope be not less than type class of the	that specified			Ostlab		Ostli ^D P
8.1.2	Ability to climb	rated slope		autlal)		القاب	Ph
8.1.2.1	Requirements	Co.		D.	4		Р
Ostlab	The wheelchair speed not less the		ole of climbin	ng at a	Ostlab	ost ^{jab} o	SID P
colo	-the applicable rawheelchair spec			iss of	In last	1	P
SIM	-the rated slope is greater.	specified by the	ne manufac	turer, if it	Oston		Р
stlab	The wheelchair properties of the stravelling 5 m up	exceeds a spe			ostab	Ostlab	P
8.1.2.2	Test method		ralh		1	-h	Р
Oston	Use an inclined the means to me					Ostlan	P
ostlab	Starting on the ir wheelchair up the speed command	e slope using I.	the maximu	ım	dal ^b os	tlab Ostla) P
dialo	When the wheel the slope and is record the speed	inside the tes	t area, meas	sure and	b	dala	Р
8.1.3	Ground uneven	ness		Op		(D)	P
8.1.3.1	Principle	ostlab	ΛÓ	ab	ostlab	ns	P



stl	ah	Qstlab	Ostlab	Qstlab	Qstlab	
(Sti	av	Page 17 o	la	Report No.	Qst-23N090071-	-1SF
ast ^{lgD}	ostiali ostia	EN	12184	10 ostlad	15 ¹ 3 ¹	αdi
Clause	Requirement + Test	y.		Result - Remark	Ver	dict
35t ^{[ab}	It is important that a wi uneven terrain without is at a higher level that	stopping even if		Qstlab	Ost ^{al)} F	>
8.1.3.2	Requirement	i. li	1.19	10/1	i.ji	>
Still .	The wheelchair shall be any of its wheels is raise. Table 3 for ground une	sed to a height sp		Ostilliv Os	F) ST
8.1.3.3	Test method	Ostlab	Ostlab	Ostlab	ost	5
. la	a) Place the loaded whethe horizontal test plan		st area of	. In In	F)
Stlan	b) Place the test block wheel, such that one of the test plane with the	specified in 4.8 up of its largest faces centre of the block	is flat on	tion Ostlan	Ostisu Ost) -
Q5! BD	the point of contact wit c) Attempt to drive the test block.	4.6734	ir off the	OSTI	G.	Sipi
	d) Record the result of	the test.	ostab	ostlab	ostlib F	>
	e) Repeat for the rema	aining wheels, one	at a time.	U.	F	>
Stab	f) The test is passed if drive off the test block		able to	Ostlap	OST	90
8.1.4	Maximum downhill s	peed	لأماء	ula. dala.	btab F	>
8.1.4.1	Requirement	0	<i>p</i>	0, 0,	F	>
stab	The wheelchair shall n maximum speed on th down			Ostlab	Ost ala F	
Jab	-the applicable rated s wheelchair specified in		class of	الواد	Jab F	-
No.	-the rated slope specif is greater.	ied by the manufa	ecturer, if it	Q512 Q5	F	
8.1.4.2	Test method	ostlab	nsila) nstlat) ()5	2
Osilab	a) Drive the loaded when down the inclined test required slope.b) Measure the speed specified in 4.5, when the test area.	plane (4.2) with the achieved, using the	he means	dap dap	Option Option	
CSTAIN.	c) Record the measure the wheelchair has me			ost ^{le}	D C	3/10
8.1.5	Dynamic stability)	الدر	(أوز.	Jab F	>
8.1.5.1	Requirements	0	Law.	051	Q5L-)



Istl	ah	Ostlan	Qstli		Qstlab	0	
43ti	an	Page	18 of 43		Report I	No. Qst-23N09	0071-1S
Act (1)	netlel) ne	dali	EN 12184	Adli ^D	nd la la	adla ^D	- Ad
Clause	Requirement + Test			R	esult - Remark	U.	Verdict
stab	The dynamic resporshall be 2 or 3 as sp 7176-2:2017 when	ecified in Table			Ostab	Ost	ab P
فالتاد	-the applicable rated wheelchair specified		ype class of	f	المام	dala	Р
Bu	-the rated slope spe is greater.	cified by the ma	anufacturer,	if it	Q511"	Q514	P
8.1.5.2	Test method	ostlab	(s(la)	nstl	ab	P
الماء	a) Load the wheelch accordance with 7.2 occupant.			.10	b .ial	الماد ال	P
Jan.	b) Test the loaded w ISO 7176-2:2017 w				Ostra	050	Р
ostlab	1) for tests on slope relative to the horizon			راللي :	0:	stab	Pili
	2) fixed test planes of be used;	or adjustable te	est planes m	ay	. [a		Р
. Ja	if the manufacture driving on a slope, to only the recommend methods are unmoderated.	est the wheelch ded technique;	nair using		Qstlaw	Osti	Р
Istian In	4) where the maxim than 100 kg, repeat stability tests with a wheelchair.	the rearward d	ynamic fitted to the	200	Osti	. h h	Ostion P
8.1.6	Obstacle climbing	and descendi	ng()st ^{ale}	0	stlab Os	thin Ostlan	Р
8.1.6.1	Requirements	الماد		(ab	dala		ab P
istlab istlab	The wheelchair shall descending obstacle Table 3 for the type maximum obstacle I manufacturer, whice part of the wheelchall climbing device complane.	es of the height class of the wh height specified hever is greate air other than w	specified in neelchair or the d by the r, without ar heels or a k	the ny erb	Ostlab	Ostlab Iab	Post
8.1.6.2	Test method	Open			02		Р
Ostlab	Test the wheelchair 7176-10:2008 for cl obstacle of the heigh	imbing and des	scending a to Fable 3 for the contract of the		b Ostlal	Ostlab	Ostlob P



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.igb	- 180	الماد	EN 12		العاني الأو	10. QSI-231109	اد .
Clause	Requirement + T	est	0511	09-	Result - Remark	0500	Verdict
selab selab	If the manufactur and descending specified in ISO manufacturer's m specifies a run-u specified in ISO distance to the m document.	steps, kerbs 7176-10:20 nethod. If the p distance of 7176-10:20	s or obstacles, 08 using only e manufacture greater than th 08, limit the ru	test as the er at	Ostlab Ostlab	Ost Ostlab	P Qsf
Ostlab Jab	If the manufactur specify a method steps, kerbs or c 7176-10:2008 us document.	l for climbin obstacles, te	g and descend est as specifie	ding d in ISO	Ost ^l	راه ر	Ostlati P
8.1.7	Static stability	Ozlan	Oztlan	Q ²	Ostla.	Ostra	05 P
8.1.7.1	Requirements		octlab	ad	ıb o	dab	P
	The wheelchair s requirements for for the type class	static stabil	ity specified in		المد		Р
8.1.7.2	Test method	(2) (1)	(151100	Ospan	050	Р
stlali	Test the loaded value configuration for ISO 7176-1:2014 exceeds the angle the wheelchair.	each direct 4 to determi	ion as specifie ine whether it	d in meets or	Qst ^{ll}	ab	QS P
Ostlali	Where the maxin 100 kg, repeat th with a 100 kg du	e rearward	static stability	test	Ostlab Os	thio ostal	Р
8.1.8	Maximum speed	d Adl	b	ndlab	ostlab	ಗಳ	all P
8.1.8.1	Requirements	U.		Ur.	0		Р
istlad Lab	The maximum sp travelling forward horizontal shall n requirements spe of the wheelchair	ls and trave ot exceed t ecified in Ta	elling in reverse he maximum s	e on the speed	Ost ^{lato}	Ost ^{laD} Lab	P
8.1.8.2	Test method	Q	P**	O	0,		Р
Ostlab	Test the loaded v 7176-6:2018 for maximum revers	the maximu	ım forward spe	eed and	dah ostlal	Ostlab	P
لأهام	Record the result requirement has		rmine whether	the	b	الماء	Р
8.1.9	Distance range	<u> </u>	(D)	0,0	0		P
8.1.9.1	Requirements	relati	adi	b	ostab	ostab	Р



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الالاب	العام	الهاب	EN 1218	34	العاب ال	القائد	- 1
Clause	Requirement	+ Test	0,,,		Result - Remark	O"	Verdict
351111	for the wheel	al continuous d chair shall not b specified in Tab hair.	e less than the	net lav	Ostlab	Ost	P
8.1.9.2	Test method	ostlab	asti	b	actab	ostlab	Р
ostlab	7176-4:2008	eelchair as spec , except that the num occupant m the lower.	e mass of the lo		ost	jab da	P
- In	Test the load 7176-4:2008	ed wheelchair a	as specified in I	SO	h	hh	Р
Stan	1 1.70	esults and deter has been met.	mine whether t	he	dan Ostia	Ostilli	05P
Ostlab	range specific smaller value	ed the use of shed by ISO 7176 s of theoretical pecified track lere method.	-4:2008 can gi distance range	ve . Use of	b	stlab	P
8.2	Static, impac	ct and fatigue	strength	tial	Ostlan	Ostl	Р
8.2.1	Requiremen	ts)	det.		al)	P
ostlab	of ISO 7176- wheelchairs of	air shall conforn 8:2014 with the of Class A are n ecified in ISO 71	exception that ot required to b	oe	ostlab o	stlab ostlal	P
أعاد	requirements	shall conform to of ISO 7176-8 tended operatin	:2014 in the lea		-dah	ad a	ab P
8.2.2	Test method	(Jan		10.	(D)	Q,	Р
Stlato		elchair in accord with modification		INC.	Ostlab	Ostlab	Post
8.3	Wheelchairs	for use as sea	ats in motor ve	hicles)	alab	P
Ostab	of the wheeld vehicle, the w requirements	cturer specifies hair includes us heelchair shall of ISO 7176-19 diffications to sul 8 13).	se as a seat in a conform to the 9:2008 12), with	a motor	tab Ostla	b Ostlab	Ph
- dab	4.1.2 is repla	ced by the follo	wina:	. Als	b	طهام	Р

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العاد	العاد	- 407	EN 12		الهدرال	NO. QSI-23INUS	
Clause	Requirement	+ Test	0515	O.	Result - Remark	0,	Verdict
stiali stiali	also be secu in public tran vehicles, the and/or of the	air is intended by red by a docking sportation and/off securement potential wheelchair tied the performance	g securement or different privints on the who lown adaptors	device vate eelchair shall	Ostlab Ostlab	Qst Ostlab	3D P
det.	5.1, second	paragraph, is re	placed by the	following:	-0	ali)	P
05110	shall have a	of wheelchair-ar burning rate not in tested as spe	t exceeding 10	00	Q5 ¹⁾		P
stlab	5.2.1 a) is re	placed by the fo	ollowing:	05	dal ^o ostial	ostlab	05 P10
Ostlab	horizontal ex wheelchair, v	hair has a head ccursions of the with respect to the he limits in Tabl	ATD and the he impact sled		b O	stlab	P. 1
stläl ^j	the horizonta wheelchair w exceed the li test, with the Table 7 for e	hair does not ha al excursions of vith respect to the mits in Table 7 exception that excursion of the R, do not appl	the ATD and to the impact sled at any time du the limits spect back of the he	he shall not ring the ified in	Ostlah Ostl	Qst ^l 10	p Ostláb
Ostlab	Primary occu	placed by the fo	ring componen sible signs of f	ailure,	Ostlah Os	tiab Ostial	P P
Stali	If the wheeld risks associa forces to whi during vehicl	is a backup sys hair does not ha ted with head e ch the occupan e collisions sha ment process (s	ave a head res xcursion and r t can be expos Il be addresse	straint, neck sed	Ostlab	Qs ^d	ab P
8.4	Climatic per	Adla	Ost	Op.	OSTIAL	Q5Uau	P.
adlab	The wheelch	air shall conforr -9:2009.	m to the requir	ements	1 04	lab	P
ostab	ingress of liq	2009 includes to uid, which is als 4:2008, 13.1. It i e test.	so required by		tab ostal	ostlab	Postlab
9	Componen	t properties	L.	16	L.		Р
9.1	Foot support	rts, lower leg s oports	upport assen	nblies	0	Star	Р
9.1.1	Requiremen	nts la		.la	1.0	- N	Р



Ostlab G	stl	ah	Qstlab	Qst	Jab	Qst ^l	ab	Ostlab
. In	(3CI	u N	Pa	ge 22 of 43	147	Rep	ort No. Qst-23	N090071-1SR
nst ^{lati}	estigl)	nstial ,	rill ^D	EN 12184	الهم	P ndli	p Adap	ndli
	Clause	Requirement + Tes	st	V'		Result - Rema	ark	Verdict
Ostlab	ostlab	The wheelchair sh that have a means feet at the required occupant's feet fro	of positioning height and p	the occupan revent the		Ostla	Ó	Ostab P
Ostlab	stab	Any swing away, r support, lower leg fitted on the wheel	support asser		upport	Ostlab	Ostlab	Post
الماء	dela	a) incorporate a m intended operating		e it securely in	any		(أو) <u>.</u>	P
Osthe	Carre	b) be adjustable in mm in any directio		ot exceeding	25		351	OS P
Ostiab	stab	c) be accessible a an assistant or bot manufacturer's into	h in accordan	ce with the	Al	dah Os	tiab ostial	o grab
الماد	.110	d) be within the rea	ach space sho	own in Figure	1; and	b	المار	P
O _{SUP}		e) be operable with	hout the use o	of a tool.	Q5 ^L		QSU	P
Ostlab		Where the wheelc which have a gap a gap being forme	between them	or the possib		Ostlati		ostili p
Jab	Jali	f) means to prever into the gap shall to	pe provided; o	r	المدر		راها.	P
Ostlon.	35110°	g) when the foot so with 9.1.2.2, any g than:)Sta-	OSIP P
Ostlab	Ostlab	-25 mm if the whee child;	elchair is inter	nded for use b	y a	ostlab	ost ^{jalo} os	p P
Jal	.60[5	-35 mm if the wheel a child.	elchair is not i	ntended for us	se by	Ja	'n	P
Qsilla	9.1.2	Test methods	Ostron	09		0500		051 P
astlab	9.1.2.1	General performa	ance	octlab		octab	ostlab	P
Jab	de salt	Fit foot supports, le arm supports in the in the manufacture	e operating po er's instruction	osition(s) spec s.		1	u selti	P
QSTIDE	Qsto	Adjust the foot sup assemblies and ar manufacturer's ins	m supports as tructions.	s specified in t	the		Q5Do-	O'P
Ostlab	Ostlab	Record whether th support assemblie requirements.			et the	gab Oc	tiab ostial	Ospid
a delab	9.1.2.2	Foot support gap		ab	ادر	b	المام	P
Ostlab	Ostar Os	Simultaneously ap centroid of each for the unloaded foot support has no ide within 5° of vertica the following equa	oot support, no support. In casentifiable plane I. The force F	ormal to the pl ses where the e, apply the fo	foot rce	Ostlab	OST OST	ab P

Qstlab

-12D	العام	-lal)	EN 12184	10	امد القام ا	ام م
Clause	Requirement + Test		O.	li Sur	Result - Remark	Verdict
stali	F = 0,125	<m×g< td=""><td>OS</td><td>ab</td><td>ostlab</td><td>OSTAD P</td></m×g<>	OS	ab	ostlab	OSTAD P
- Ta	Apply the force for 5	s to 10 s.	6			Р
stab	While the force is be largest distance bet follows:				Ostlali Ostlali	PDST
ostlab	1) identify the surface enclose the gap bet			dab	ostlab	P
.100	2) from each point of support, measure the on the surface of the	e distance	to the nearest p	oint	det. det	Jab Jab
SIP.	3) record the larges accuracy of ±1 mm.		neasured to an	O ₈	Ostro. O	QSI P
ostlab	Record whether the requirements.	foot suppor	rts have met the		b ostab	Polia
9.2	Component mass					Р
astlab Ostlab	If the wheelchair is is storage or transport requires moving or harding devices (e. shall provide informations where such comport describing how they disassembly lifting, reduce risks to the phandling them.	ation, any c nandling and hall be proving, handles) ation indicate tents can be shall be ha carrying, an	component that d that has a mas vided with suitable. The manufacturing the points be lifted and andled during and assembly to	ss ble urer	Ostlab Ostlab Ostlab	Ostlab Ostlab
9.3	Pneumatic tyres	adlab	Λď	gb	actab	ostal) P
, edab	All pneumatic tyres the same type of va be readily accessibl inflating tool.	lve connect	ion. Valves shou		ostlati ostlal	P
	The tyres or the rime maximum pressure				U' U'	Р
9.4	Means for maintain	ning a sittir	ng posture	05tlal)	Ostlab	O.Plab
adilib	The wheelchair shall be fitted that enable sitting posture.	s the occup	ant to maintain	a	tab ostlab	dab Pab
Ostlab	If the risk managem risk of the occupant when the wheelchai shall be provided wi the manufacturer of available such mean	tipping or s r is decelera th the whee the wheelc	liding forwards ating, the means elchair; otherwis hair shall make	s se	b Ostlab	Ostla
9.5	Resistance to ignit	ion	ostlab		ostlab	ostlab P
	1/2*		LD*		W"	U.

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الوابي	EN 12184	الهام الفام ال	adl
Clause	Requirement + Test	Result - Remark	Verdict
9.5.1	General	ostlab ost	ab P
stlab	The surfaces of components which support the occupant, or which stay in contact with the occupant or the occupant's clothing, shall be tested as specified in 9.5.2. Progressive smouldering ignition or laming ignition as defined in the standard applied shall not occur	ostlab ostlab	Post
Ostlab	This requirement does not apply to components of the power and control system, which are covered by 9.5.3.	Qstlati	OSIP
deli	It is not necessary to test components that are inherently resistant to ignition, e.g. steel frame tube.	Hab adab adab	Pab
9.5.2	Test methods	Dr Dr	Р
9.5.2.1	Selection of test method	ostlab ostlab	P
See	The test method specified in 9.5.2.2 is the preferred test method. It is the referee test method, which is used to resolve doubts or dispute.	artial) artic	Р
	The test methods specified in 9.5.2.3 may be used as alternatives.	Opt Opt	Р
9.5.2.2	Referee test method	ostlab	P
.talî	Select and test a sample of the component as specified in ISO 16840-10:2021.	lat that the	Р
9.5.2.3	Alternative test methods	Ostran Ostran	Р
distr	Test the material of each component in accordance with EN 1021-2:2014 or ISO 8191-2:1988.	ostlab ost	al) P
9.5.3	Power and control systems	0	N/A
1511010	Either of the following options a) or b) shall apply:	Ostlab Ostlab	N/A
Ostlab	a) The manufacturer shall adopt appropriate means to eliminate or reduce as far as reasonably practicable the risk of a hazardous situation developing from the ignition of any part of the power and control system of the wheelchair. The	o Ostlab	N/A
Ost ^{lab}	manufacturer shall apply the risk management process (see 6.1) to manage that risk. b) The power and control system of the wheelchair	tlab ostlab ostlab	Of the
, (a)	shall meet the requirements of ISO 7176-14:2008, 9.7, resistance to ignition.	the the the	N/A
10	Propulsion and braking systems	QSDE	Р
10.1	Means for operating brakes	ostlab ostlab	Р
10.1.1	Requirement	U. U.	Р

stlab C)stla	ab	Qstlab	0	stlab	Qst)	ab	Qstlab
. colt	.tall)	.40 1	: rall	Page 25 of 43 EN 1218	ο ₄ : Γ	Rep	ort No. Qst-23N	090071-1SR
OSTUR	Clause	Requirement +	Test	EN IZIO	04	Result - Rem	ark	Verdict
	Olause	requirement	1031			result rem	an	VOIGIOU
ostlati	istali	a) Means for or	(15)		istlal)	ostla	þ	A P
		1) be accessibl an assistant or			ant or			Р
adab		manufacturer's				للواري	العام	241
Ü>,	D.	2) be within the the wheelchair the occupant;				Q.	Op.	Р
Ostlab	Ostlab	be within the the wheelchair by an assistant	is intended to			(25tla ¹⁰	Ost PD
ostlab	astlab	4) have operatidisengaging the Table 3 when to	at do not excee	ed those stated		dab os	stlab ostlab	Poli
		b) If one or more wheelchair in the			146			P
الأمام	dela	mopeds:		JaD	all:	b	لأوبي	det.
05	(2)	1) for wheelcha					QSLL-	Q51P
. 6		lever to hold the	e loaded whee	Ichair stationar		6		P
actab		the rated slope 2) for wheelcha			t mass	Astal)	Λ.	110
W.	()	greater than 15	60 kg, the force	applied to each	ch lever	Q.	U	P
uh	Laly	to hold the load rated slope sho			the		ral)	call)
Ostlan	Killing.	3) the grip widt	h of such brake	e levers when i	no force		Still	Ostron
81		is applied, mea of the brake lev			100	18		P
ostali	actials	mm and should (see Figure 3).				ostlab	nation and	ab
	W.	c) Means for re				W	W W	Р
راه ال الأهاب	Jab	protected agair contact.	ist activation c	aused by acci	dentai	Jo	b	راول.
QSUa	10.1.2	Test method for operating force		ion of brake	181	0500	0	Р
ostlab	netlab	a) Adjust the bi manufacturer.	rakes as specif	ied by the	b	odlah	ostlab	Podl
<i>u</i> -	<i>a</i> *	b) Select the pa force is to be a			the	W.	<u>.</u>	P
Ostlad	Qstlab	1) If the lever is knob, apply the knob.					Ostlav	QP
ostlab	ostlab	2) If the lever is the point where intersects the c	the largest cre	oss section	ough	dab Os	stlab ostlab	P
		3) If the lever is				-		Р
المامد	المام	those above, at the centre line				()	الأهاء	الالفاء
Della Control		4) If the form of	f the lever is su	ich that the lev				
: la		gripped by the through the cer			om the	. [4		Р
ostlan	nsl	end. 5) If the brake i	s operated by	nushing or null	ling a	nstall	nstal	7
U'	L.	bar or pad, app				W	W.	Р
		or pad.						



Ostlab Co	etl	ab	istl ^{ab} o	stlab	Ostlab	0	tab
ral)	tal)	tal) tal	Page 26 of 43 EN 1218	24	Report No	o. Qst-23N09	0071-1SR
OSTIGIO	Clause	Requirement + Test	EN 1210	09	Result - Remark	Ostlan	Verdict
	Clause				Result - Remark		verdict
astlab	05t ^{1al)}	c) Apply the brakes whi the device specified in a of travel of the point of order to measure the m force required.	4.4 aligned in the direction application of the for	ection	Ostlab	Ost	P
Ostlav	Ostlan Catlab	 d) Release the brakes with the device specified direction of travel of the force in order to measure force required. 	d in 4.4 aligned in the point of application	e of the	Ostlav O	stield)	Ostia P
De.	2	e) Perform c) and d) thr the measurements.	ee times in total and	record	(P°		Р
ostiab	ast ^{lab}	 f) Calculate and record of the application and the measured separately. 		value	dab ostlab	Ostlab	05P
adab	dala	g) Determine whether operating forces stated			(b)	lab	P
D	10.2	Braking functions	W ^r	(pr	Œ,		P
ostlab	10.2.1	Requirements	05	(lab	ostlati	osti	Р
Ostlab	ost ^{lab}	a) The wheelchair shall operates independently inflation pressure and with maximum stopping distinctions when tested in accordary.	of tyre wear and tyr which does not excee ance specified in Tal	e ed the	Qstlal)	OSI PID
Ostiab	Ostlab	b) The wheelchair shall which, when operated a been put into freewheel wheelchair to a stop.	after the wheelchair h	nas	Ost ^{jab} Ost	ab Ostlab	Р
gsilab	istlab	The maximum stopping apply for a running brak wheelchair has been pu	ce operated after the ut into freewheel mod	de.	ostlab	05	al) P
القائمة	الماد	 c) The risk managemer risks due to loss of brak with the ground (see 6. 	king if a wheel loses 1).	contact	المادر	الماء	P
ad lab	Tan Tab	 d) The wheelchair shall which operates indeper tyre inflation pressure a releasing the control de 	ndently of tyre wear a and which is operated	and d by) (25° (2	10	P
Ostar dala	لاهام	speed command. e) The wheelchair shall operates independently inflation pressure.			usb stab	لأواد	P
Q51 P	02	f) Parking brakes shall a effectiveness requirement accordance with 10.2.2	ent in Table 3 when t .2.	ested in	051	034	P
ostlan	Ostlab	 g) Parking brakes shall no power from the batte system. 	be operable when the		ost ost	aD	P
ostlab		h) Parking brakes shall wheelchair is in freewho			ostlab	octab	Р

Q	stl	a	b

العاد	-460	الماء	EN 12		العامر ال	الهام	
Clause	Requirement +	Test	0,4		Result - Remark	<	Verdict
stlab	i) If they are su have provision as specified by	for adjustmen	nt and/or repla		Ostlab	OSÍ	ab P
etlab Jetlab	j) If the wheelcd can be moved occupant into continuous accordance brakes shall not level of the occupant	hair is fitted wor removed to or out of the worth 10.2.2.3, of have parts the cupied seat the	ith arm suppo enable trans heelchair, wh engaged par hat protrude a at can make o	fer of the en tested king above the	Qstlab	Ostlab	PQSt ^{ll}
Ostlab Istlab	with the occupa k) When parkin with 10.2.2.4, r move from the or assembly of of cracks, brea play, loss of ac	ng brakes are no parking bra pre-set position parts shall sh kages, gross ljustment, or a	tested in acco ke mechanisi on and no cor low visible sig deformations any other dam	m shall mponent ins , free lage, that	tlab Ostl	ab Ostlab	OS POD
Ostlab	adversely affective adversely affective with 10.2.2.4, parking brake when tested ag	of the parking parking brakes effectiveness i	brake in acco s shall meet the requirement in	ordance ne n Table 3	j)	25t ^{tab}	OSIAN
10.2.2	Test methods	Q511810		151100	Ostlan	Osti	Р
10.2.2.1	Determination brakes	of the effect	iveness of r	unning		Jab	P
Ostlab Sstab	Perform the test emergency open of ISO 7176-3: on the horizont specified in ISO whichever is strequirement if the specified in Tallon the horizont on the test slopen.	eration specification specification and on the D 7176-3:201: eepest. The wather maximum ble 4 of this deal, or if the wholes.	ed in 7.3, 7.4 the loaded whe steepest slop 2 or the rated wheelchair fail stopping distrocument is ex	and 7.5 eelchair ee slope, s the ance	Ostlab Ostlab	est ^{ialo} ost ^{ial}	P ab
10.2.2.2	Determination brakes		ness of parki	ng	octlab	ostlab	Pad
الأول	a) Adjust the parameter's the operating for	instructions v	vithout excee	ding	1	Jali	P
Ostlab	b) Test the load accordance wit plane inclined thangle stated in wheelchair or a manufacturer,	th ISO 7176-3 to the horizont Table 3 for th at the rated slo	3:2012, with the tall at the apple type class of	ne test icable of the	tlab osti	sur Ostlab	Qsua Qstlab
dalta	c) Repeat b) w	ith the wheelc	hair facing do	wnhill.	b	الفائد	P
	d) Determine w requirement.	vhether the pa	rking brake n	neets the		P	Р
10.2.2.3	Protrusion of	parts of the p	oarking brak	es	ostab	astab	Р



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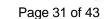
	EN 12184	1 ^D satis ^D satis ^D	
Clause	Requirement + Test	Result - Remark	Verdict
stlab	a) Engage the parking brake.	ostlab ost	ab P
. la	b) Move or remove the arm support to enable transfer.	. 10 . 10	Р
Still	c) Identify any parts of the parking brake that protrude above the plane of the lower surface of the thigh loading plate of the test dummy.	Ostlan Ostlan	Р
ostlab	d) Determine whether the parking brake meets the requirement.	ostlab	(st ^P)
10.2.2.4	Fatigue strength of parking brakes	W 6. 16	Р
st ^{lab}	a) The parking brake may be tested in accordance with b) to g) below, or as specified in ISO 7176-8:2014, 10.5.	tlad Ostlad Ostlad	05 P
Ostlab	b) Carry out the test with the parking brake mounted on the wheelchair or mounted on a suitable test fixture that simulates mounting on the wheelchair. If the wheelchair is fitted with two identical brakes (left and right), test only one of the	ostlab	Ostlab 6
	brakes. c) Adjust the parking brake in accordance with the manufacturer's instructions without exceeding	Ostlán Ostli	P
stlab	the operating force requirements stated in Table 3. d) Set up the means for moving the brake lever (4.12) so that no twisting or bending forces are applied to the brake lever.	Ostliib	Ostlah P
Ostlab Jab	e) Move the lever operating the brake smoothly from the non-braking position to the braking position for 60 000 cycles at a frequency not greater than 0,5 Hz. Carry out maintenance during testing only in accordance with the manufacturer's instructions.	ostlab ostlab	P
150"	f) Inspect the brake mechanism and determine whether it has met the requirement	Or Or	Р
stlali	g) If a test fixture was used, return the brake mechanism to the wheelchair.	Ostlab Ostlab	Post
10.3	Freewheel device	t call	P
QSII	The wheelchair shall be fitted with a freewheel device that shall:	Qstlob	(P
OST ^I	-e accessible and operable by the occupant or an assistant or both in accordance with the manufacturer's intended use of the wheelchair;	dab ostlab ostlab	P
lab	-be within the reach space shown in Figure 1, if the wheelchair is intended to be operated by the occupant;	dala_ d	P
	-be within the reach space shown in Figure 2, if the wheelchair is intended to be operated solely by an assistant;	(D)	Р
O5	-have operating forces for engaging and disengaging that do not exceed those stated in Table 3;	Ostlab Ostlab	Р



Qstl	ab ostlab	Ost	ab	Qstlab	Q ⁵	stlab
10	tall tall	Page 29 of 43 EN 12184	- 6	Report N	lo. Qst-23N09	0071-1SR
Clause	Requirement + Test	EN 12104	odil	Result - Remark	Office	Verdict
ndali	-be operable without detaching	g any parts;	dab	odlab	nd	all P
E la	-not depend on the battery pov motor drive system;	ver supplying th	ie	(J2*	16	Р
Slight	-have two defined positions incindication of freewheel mode a			O5tlair	Ostlan	P
delta	-prevent use of the wheelchair freewheel device is activated.	ID.	~13 ⁰	nd li	b	Ph
(D)	These requirements apply in a concerning non-powered mobi ISO 7176-14:2008.		D.	ush sah	, la	P
25th	A battery independent from the may be used to supply energy freewheel mode.		attery	Ostlan	Ostlan	OS P
ostlab	Freewheel devices shall be pro activation caused by accidenta		osti	l) OS	tlab	Pili
11	Operations					Р
11.1	Operations intended to be ca occupant and/or assistant	arried out by th	ne	Ostlah	Osti	Р
rstlab	Wheelchairs shall be designed operation by the occupant and specified in the manufacturer's	or assistant as		ostl	Ď	osteb
	Examples include:					Р
Ostlati	-operation of adjustable seating postural supports;	g and adjustme	nt of	Ostlab Os	thip Ottal	Р
stlab	 -use of detachable component removable arm supports, lower assemblies, etc., to facilitate s and out of the wheelchair; 	r leg support safe transfers in	to	Qstlab	Ost	ab P
dab	 -use of folding mechanisms, in frames, etc., to facilitate storag of unoccupied wheelchairs; 		tation	ostlab	nstab	P
	-carrying out maintenance, incl	luding use of to	ols,			Р
Ostlato	-use of manual steering contro	ıls;	Osilia	Ost	[aD	0.P
dala	-use of braking systems and from	eewheel device	es;	لأواء طواء	العاد	Ph
	-use of assistant controls;	Or	Q)	O.	D.	P
ostlab	-use of control devices.	tlab	Osti	D OS	tlab	Blab
11.2	Controls intended for operat occupant	raln		1.0	الأما	N/A
0	Controls intended to be operat while seated shall be within the space shown in Figure 1.	ed by the occup e occupant reac	oant ch	Ostion	Ostian	N/A



stlab	1041	ostlab ostlab	ostlab	ostlab	Ostlab
C	etl	ap ,	Page 30 of 43	Report No. Qst-23	3N090071-1SR
ostab	edia)	ostal) ostal)	EN 12184	ib ostlab ostlab	ngli
	Clause	Requirement + Test	W'	Result - Remark	Verdict
stlab	ostlab	The following controls, if they intended to be operated by the included:		Qstlab	N/A
.tal1	1.0	-on/off switch or key;	. Lali	الما الما	N/A
Ostron	Silv	-speed regulator;	05000	Ostra Ostra	N/A
tlab	ostlab	-speed pre-setting;	ab ostlab	ostlab	N/A
	la la	-running brake;			N/A
Ostlali	Ost ^{jab}	-parking brake;	Ostlalia Os	tialo ostialo ostia	N/A
dela	Jalo	-acoustic warning device;	ال فاوال	det. de	N/A
Sila	03.00	-direction indicator;	GO GO	Oppor	N/A
Ostlab		-direction switch;	Ostlab	Ostlab	N/A
	[6	-control device;			N/A
3/34	Ostian	-lighting controls;	Qstlav	Ostland	N/A
المام	المان	-seating adjustments;	dala	طهاه طهاه	N/A
QSUD silab	ndlab	-detachable components, inclusive supports, lower leg support as facilitate safe transfers into an wheelchair;	semblies, etc., to	Ostra Ostra O	N/A
	D.	-steering controls;	U.	U.	N/A
Ostlab	Ostlab	-freewheel device.	Ostlab	Ostlab Ostlab	N/A
c.lt	11.3	Controls intended for opera	tion by an assistant	1(1)	N/A
stlan	Qstlaw	Controls intended to be operar shall be within the reach space		Ostlan	N/A
ostlab	ostilb	Examples include:	ostlab os	tlab ostlab ostla	N/A
		-brakes;		i.	N/A
511aD	Ostlan	-control devices;	stan Ost	Ostlab	N/A
actlab		-push handles; and	odlab	adlab ad	N/A
U.		-electrical ancillary equipment	Ur.	U U	Р





erigi)	actial actial	EN 12184	1 ^D 2018 ^D 2018 ^D	. od
Clause	Requirement + Test	G. U.	Result - Remark	Verdict
11.4	Assistant control unit, pus handgrips	sh handles and	ostlab o	d delta
11.4.1	Requirements			Р
Stan	Switches intended to be ope while driving the wheelchair assistant control unit.		Ostlad Ostlad	Р
ostlab	When an assistant control un	nit is fitted:	ostlab	Ρ)
e lab	-the unit shall be positioned back support, between 900 in from the floor to the centre of for the control device (e.g. jo	mm and 1 200 mm of the operating means	dab ostlab ostlab	Pal
i la	-there shall be a means to si hand or hands used to opera		6	Р
Ostlan	When push handles are fitte wheelchair shall lie within a wheelchair bounded by the f	space to the rear of the	Ostalia	P
	-a plane at 85° to the horizon rearmost points of the push in Figure 5;		Ostlab Os	Р
stlab	-two planes not less than 35 from a vertical plane parallel direction of travel that bisect unless the intended occupar	to the forward street wheelchair,	Ostlab	Ostab
1.0[1	-the horizontal test plane.	iali	call calls o	Р
Ostlan	When the wheelchair is fitted the handgrips shall be at lea between 20 mm and 50 mm	st 75 mm in length and	OSCIAL OSCIAL OSCIA	Р
et lab	When push handles are fitte intended to be used by being the grip width when no force greater than 100 mm and sh than 80 mm (see Figure 3).	g gripped by one hand, is applied shall not be	Ostlab O	P
11.4.2	Test method	Ostra	Ostlan Ostlan	P
odlab	a) Place the wheelchair in the horizontal test plane.	ne test area of the	odlab	Pal
المد	b) If an assistant control dev position and measure the he means above the test plane.	eight of its operating	المن المن المن	P
OSTIN	c) Project the planes specific determine whether any part within the enclosed space.		Ostlan Ostlan	P
ostlab	d) Measure the dimensions of push handles.	of the handgrips on the	ib ostlab	P
	e) Where applicable, measu controls fitted to the push ha intended to be used by being	indles that are	Jeis Cleis	Р
0	f) Inspect the wheelchair for assistant's hand or hands us control device while the whe	means to support the sed to operate the	Ost Ost	Р



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SIP	EN 12184	die 900 900 -	- A
Clause	Requirement + Test	Result - Remark	Verdic
stab	g) Record whether the wheelchair has met the requirements.	ostlab os	P (III)
11.5	Operating forces	lala	Р
11.5.1	Requirements	Ostlan Ostlan	Р
Ostlab	All controls, except for means to operate brakes, shall have operating forces for engaging and releasing that do not exceed those stated in Table 3 when tested in accordance with 11.5.2.	W .	Ostell
stlab	In addition, to achieve the intended function of the system or device being operated, for knobs intended to be gripped and turned by one hand:	ostlab ostlab	P
ostlab	-where the diameter of the knob is greater than or equal to 25 mm and the force is transmitted by friction, the numerical value of the torque, expressed in Nm, shall not be greater than 0,05 times the numerical value of the diameter of the knob, expressed in mm; and	stlib	QS()
. Is	-where the diameter of the knob is less than 25 m diameter, the numerical value of the torque, expressed in Nm, shall not be greater than 0,025 times the numerical value of the diameter of knob expressed in mm.	Ostor Ost	P
11.5.2	Test method	OSTAL	05/8
11.3.2	Test method	Na Taranta	186
redali	 a) Position a means to apply force or torque as applicable: 	octlab octlab octla	Р
dab	1) where the operation is performed by pushing or pulling, position the means to apply force parallel to the direction of operation and in the middle of the knob or button;	ostlab	P P
رامل	 in the case of a lever of length 30 mm or greate position the means to apply force at a distance of 15 mm from the end of the operating lever; 	er, salt salt	Р
	 in the case of a lever of length less than 30 mm position the means to apply force at the midpoint of the lever; 	<i>D</i> - <i>D</i> -	Р
Ostlab	4) for a turning knob, use a suitable means (e.g. a force gauge) to measure torque concentrically on the knob.	da) Ostlab	O.P.
Ostlab	b) Gradually increase the force or torque until the intended function of the system or device as specified by the manufacturer's instructions is achieved.	Ostlab Ostlab Ostlab	P
الماد	c) Measure and record the maximum operating force	det, det,	Р
	d) Perform b) to c) three times in total.	Str. (25tr.	Р
	e) Calculate and record the arithmetic mean of the	Max Max e	Р





	stla	ab b ostla	ab Q	stlab	Qstlab	Ostlab
	SLIC	1 1 1	Page 33 of 43		Report No. Qs	t-23N090071-1SR
A	IDD .	nation nation	EN 1218	34	i ^p adla ^p adli	aD netli
C	lause	Requirement + Test	W.		Result - Remark	Verdict
1:	1.6	Occupied seating adjustr	ments	stlab.	ostlab	N/A
1	1.6.1	Requirements				N/A
S	The state of the s	If the manufacturer specific be adjusted by an assistan while the occupant is seate	t or the occupant		Ostlati Ostlati	N/A
	estlab	-the assistant and/or the oc apply or withstand a force (weight of the occupant and presents a moving and har the assistant and/or the occ	(e.g. the combine I the seating) whi adling safety haza	ed ch	Qstlab	N/A
)5) JV	-movement of the seating, incremental, shall automati when the assistant or occu of operation	whether continuo cally be prevente	ed 📗	tian ostian o	N/A
	Bildio	Controls for seating adjustr operated by the occupant soccupant from all seating p	shall be accessib		Ostlan	N/A
1	1.6.2	Test method	05	dab	ostati	N/A
	la la	a) Adjust the seating as spending and acturer's instructions		T _a		N/A
35		b) Record whether the whe requirements	elchair has met t	he	Qstau	N/A
1:	2. 	Electrical systems	Lelak		الفام الفام	P
12	2.1	General requirements	U2"		0, 0,	P
35	lab dala	The wheelchair shall confo of ISO 7176-14:2008, exce			ostlab	OSTAD P
	ial?	The wheelchair shall confo of ISO 7176-21:2009.	rm to the require	ments	المن المن	Р
12	2.2	Circuit protection	0500	lin.	Ostlan Ostlan	P
12	2.2.1	Requirement	adlab	الالم) adjab	Pali
	up-	Operation of the circuit profollowing functions shall no the remaining functions:			uh uh	P reli
(151111	a) electrically powered driv steering;	ing, braking and	05	dan Ostlan O	O'P
	actab	b) electrically powered part system;	actlap	adi	b ostlab	Palab
	M.	c) electrically powered light and hazard warning flasher		ators	Ur.	Р
1:	2.2.2	Preparation	(8)		(a)	ostlab P



	stl	ab 0	itlab	Ostlab	ostlab	Q5	tlab
ral)	tal)	(all) -(all)	Page 34 of 4		Report No	o. Qst-23N09	0071-1SR
Stal	Clause	Requirement + Test	EN 12	2184	Result - Remark	Office	Verdict
	Clause				Tresuit - Tremain		verdict
	sciel)	Examine the wheelchair locate:	15 ¹¹⁰¹	CELION	ostab	روا	all P
i.alf		a) conductors for each n drive, brake and/or steer		r used to		[6	Р
Sign	Still	b) conductors for each n move parts of the body s		r used to	Ostlav O	Stillio	P
j	ظهام	c) conductors for each line hazard warning flasher.	ght, direction indi	cator and		j	P
	12.2.3	Test method	O.	D.	D.		Р
de	ostlab	a) For each pair of conding turn, apply a short circle operate the control device protection can operate, to the control of the control	cuit between them be so that any rela	n and ated circuit	dab Ostlab	Ostlab	Ostlab P
	ostlab	functions identified in 12 whether their operation ib) For each pair of conditions	.2.1 b) and c) and s affected. uctors identified in	d observe n 12.2.2 b)	ib <u>O</u> st	lab	ostali
dab	to lo	in turn, apply a short circ operate the controls for that any related circuit p attempt to operate the fu a) and c) and observe w affected.	the body support rotection can ope unctions identified	system so rate, then in 12.2.1	Ostlab uslab	Qstl	P P
	ostlab Ostlab	b) For each pair of condin turn, apply a short circ operate the controls for that any related circuit p then attempt to operate 12.2.1 a) and c) and obs	cuit between them the body support rotection can ope the functions iden	n and system so rate, itified in	Ostialo Osti	iab ostlab	QSÜ ^{QQ}
	12.3	operation is affected. Battery chargers	sciali	ostlab	ostlab	nst	ab P
	12.3.1	General	. fo	L.		La Carrier	Р
	nst ¹⁹¹⁰	Battery chargers for whe the requirements of ISO following modification.			Ost ^{lab} O	5100	P
	nstlab	5.1.2.2 is replaced by th	e following:	ostla	nstli	b	Par
)	Ostlab	Battery chargers shall m 60335-2-29:2004 14) fo applicable electrical requ 60601-1:2006 15) for cla be applied as an alterna	r class II appliand uirements of EN ass II ME equipme	ces. The ent may	tab ostlab	Ostlab	() P
ilh	Ostlab	electrical requirements of 16). In addition, wheelchairs battery charger shall correlectrical requirements of the statements of the statements of the statement of the statemen	that include an or nform to the applic	n-board cable	do cost	lab b	Ostalia P
Stille	0	Battery chargers shall co of ISO 7176-21:2009.	A.		Ostron	Ostra	Р



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211	134	75" 75"		139
Clause	Requirement + Test	y y	Result - Remark	Verdic
12.3.2	Operation	ostlab	ostlab	ost all P
stlali	Battery chargers shall operate intervention or supervision apand turning on at the start of off and disconnecting at the e	part from connecting charging, and turning	ostla ^{ld} ostlal	p P
12.3.3	Manual adjustment for batto	ery type	-	P
Qst ^{lab}	Where a battery charger is in more than one type of battery operation is necessary to sele	, and a manual	Qstlab	QST P
stlab	-the selected battery type sha visible from the exterior of the		dab ostlab	stab ostab
Jab	-it shall not be possible to sel- without a tool, key entry comb means for restricting access;	oination or similar	المدر الم	Р
Q51P	-the method for selecting the consist of operations which a normal use of the charger.		QSD	P
12.4	Charging connector	ostlab	ostab	OSÍM P
stlab	The wheelchair shall have a contract that is readily accessible and occupant or an assistant or buthe manufacturer's intended to	operable by the oth in accordance with	Ostlab	Ostleb
Jali	The requirement is verified by	/ inspection.	des. des.	P
12.5	Battery enclosures and con	ntainers	Ostra Ostra	Р
stlab	Battery enclosures and conta protection so that it should no liquids dripping from above to onto any cell or battery they contains the same of the sam	ot be possible for one of the	Qstlab	Ost ^{ab} P
12.6	Emergency stop	artlab	الهادي والهادي) P
, infl	The wheelchair shall be fitted emergency stop devices to en impending danger to be avert	nable actual or	On On	P
Ostran	Each emergency stop device	shall:	Ostron	()P
adlab	-be clearly identifiable, clearly accessible by the intended op		tlab actlab	stab setab
<u> </u>	-stop the hazardous process practicable, without creating a		U* 0	P



(اواد	العاد	الماد	EN 12	2184	الهائد ال	الهاد	نام .
Clause	Requirement +	Test	024	Ú5Le	Result - Remark	0"	Verdict
stlab	Once active op device has cea command shall that engageme	sed following I be sustaine	g a stop comned by the whee	nand, that elchair until	Qstlab	Ost	ab
stlab	not be possible triggering a sto disengage the operation, and restart the whe	e to engage to p command. device only l disengaging	he device with It shall be po by an appropr the device sh	out ssible to ate all not	Ostlab C	stlab	O51
Ost ^{lato}	The emergency operational at a operating mode	y stop function all times, reg e.	on shall be ava ardless of the	ailable and	Qst ^{la}	0	(S ¹ P
stlab	Emergency sto other safeguard for them.	ding measur	es and not a s	ubstitute	tlab Ostlab	Ostlab	P
Ostlab	Additional eme attached to a w assistant. Whe impairment wh emergency sto process (6.1) s	wheelchair to re the intend ich restricts to p device, the	be operated be led occupant he heir ability to earlier risk manager	by an nas an operate an ment	D Q5 ⁴	lab	Blill
12.7	Lighting	Ostlan		Ostlan	Ostlan	Ostli	Р
stlab	Wheelchairs in outdoor use sh suitable for the absence therecambient lighting	all be supplice operations of is likely to	ed with integra concerned who cause a risk d	al lighting ere the	Qstla	b	OstPb
Ostlab	Wheelchairs ca requirements for	an be subjec	t to national	ab	ostlab ost	jab _{Ost} jab	Р
st ^{lab}	If there are no wheelchair is e lighting require the European ([18]).	expected to coments in au	onform to rele tomotive Regi	vant ulations of	Ostlab	Ost	al) P
12.8	Switching off	while drivin	g	dab	odal)	ctlab	Р
P Joh	If the wheelcha horizontal, it sh maximum stop	nall come to a	a stop within tl	ne	1	-h	P
12.9	Software		05110	Ospe	050		P
ostlab	Software that is an integral part malfunction of situation, shall accordance wit	t of the whee which can gi be develope	lchair, and the ve rise to a ha d and maintai	e zardous	tlab Ostlab	Ostlab	OSP ^b
12.10	Lithium cells a	and batterie	sastala	Ostl	D (25)		Р
Λ.	Sealed second containing non-requirements of	-acid electro	lyte shall conf		ostlab	ostlab	Р
12.11	Remote contro	ol	Ų,		W.	W"	Р



stlab C	etl	ah	Qstlab	Q5 ^t	Jab	Qstlab	Q	stlab
. 19	43 CI	CI IV	. [a	Page 37 of 43		Report	No. Qst-23N09	0071-1SR
OSTIBLE	12:101	105 ¹³¹	-6 ¹³¹	EN 12184	- odli	N 051111	nstlav	odli
	Clause	Requirement +		y.		Result - Remark	Mar.	Verdict
stlab	ostab	of the wheelch	e control is used nair or any lightio ects shall be incl process:	ng function, the	3100	Ostlab	Ost	P
ostlab	st ^{lab}	-loss of signal;	, Ostlab	ostali		ostlab	ostlab	P
. (4	. 14	-signal errors;		, fa	la la		ls.	Р
stlaD	Ostlan	-reliability leve	el; Ost	ap.	Ostlan	Ost	an	(5 P
الاداد	العاد	-correct pairing	g between the re	emote control a	nd the	واد الواد	العاد ال	Pab
Ospe)511°		fication of the pa ir to the operato		ntrol	Öz-	Dec.	Р
stlab	Ostlab	-interference f	rom multiple rer	mote controls;	osti	0	stlab	Pili
		-security and r	malicious interfe	erence;	lh			Р
Ostlan	1	-security and r	malicious interfe	erence;	Die.	Ospan	050	Р
dab	oct a)	-gradual loss of	of power in the r	remote control;	adlab	net	ab	P
	<i>3</i> "	-range.	LP*		W			Р
Ostiali	Qstlab	remote contro	ent applies rega I acts between o between an ext	components of t	he	Ostlab Os	stall ostal	Р
stlati	13	Information	supplied by tl	he manufactu	rer	ostlab	05	P
الأون	13.1	General	dela	راور		الأواد	المار	Р
OSTIG	Bir		air shall be prov		ho	Q5111	051	QSI
ostlab	ostlab	applicable req	uirements in EN requirements s	NISO 20417:202) nd	tlab	P
27"	U/	The manufacti	urer shall provid			- U		La Company
Ostlab	Ostlab	servicing information 13.4 respective separate printer	ate sections: premation, as speciely. These may ed documents of the needs of in	cified in 13.2, 13 be provided as or in other forms	.3 and of	tlab Ostla	Ostlab	OSPID
dab	a delab	their assistants		العابر	- Adi	ر	الوار	ألطب
2"	13.2	Pre-sale infor	rmation	7"	To h	U	2"	Р
10/1		Pre-sale inform	mation chall incl	udo the followin	α·	10/2	101	Р



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العاد	اد. (اداد.	EN 1	2184	العاد ال	NO. QSI-231NU9	الله
Clause	Requirement + Test	O Comment		Result - Remark	0,0	Verdict
stlab	a) information on how in a format appropriat impaired people;			Ostlab	Ost	ab P
.1510	b) a description of the wheelchair, including			الواء	الأواد	Р
Sur	c) the intended opera both), intended use a			0511	0500	Р
netlab	d) the type class of th B or Class C;	e wheelchair: Clas	s A, Class	ostli	b	P
stali	e) the overall dimensi of the wheelchair and use and, if applicable dismantled for storage	its mass when it is , when it is folded a	ready for and/or	tlab ostlab	nstlab	Ph
ostlab	f) the minimum width wheelchair can be tur direction;	ned to face the opp	oosite	JD 05	ilal)	P
	g) the rated slope, ex			JaĎ		P
	wheelchair; i) if the wheelchair caremovable parts, the			0500	QST)	Р
stläli	j) a statement that the used as a seat in a m the wheelchair is not in a motor vehicle;	e wheelchair is inte otor vehicle, or a w	nded to be varning that	Ost ^{la}	b .	Ostlati P
Ostlati Stilati	k) the theoretical cont expressed in kilometr travel under its own p tested in accordance with the addition of a distance will be reduce frequently on slopes, kerbs, etc.;	es, that the wheeld ower on the horizo with ISO 7176-4:2 note explaining tha sed if the wheelchal	hair can ntal when 008, It the Ir is used	Ostlab Os	tlali Ostlali Ost	a) P
151/20	I) the maximum heigh can descend safely;	t of kerb which the	wheelchair	OSTAN	Ostlad	PJS
Qstlab	m) if a programmable on the method of prog required to carry out t effects it can have on	gramming, the com the programming a	petency nd the	o ost	jab	QsUab
13.3	User information	iab	lab	الماء الماء	ظهند	P
Ostlab	User information shall manufacturer with ear shall also be available the wheelchair. User following where applicable the unique identification.	ch wheelchair. Furt e for any subseque information shall co cable:	her copies nt user of ontain the	b Os	tab	Ostab Ostlab
	a) the unique identific wheelchair or informa unique identification r	ition on the location number on the whe	of the elchair;	dala	الماد	Р
<u>w</u>	b) any adjustment or wheelchair can be us adjustments or setting	ed and warnings of		01-		Р



ostlab	Qstl	ah	Ostlab	Qst	Jab	ostl	ab	Ostlab
. In	436 1	an	Pa	ge 39 of 43		Rep	ort No. Qst-23	N090071-1S
nst ^{lav}	AST DV	ostian	18 ¹³¹	EN 12184	ngtl	لاور را	IV ASTAV	- 06
	Clause	Requirement + T	est	4		Result - Rema	ark —	Verdic
astlab	astlab	c) information on made, and the co these adjustmen	ompetency requ			Ostla	b	Ost all P
الماد	, la D	d) instructions or brakes;	operation of al	I controls, inc	luding		الماء	Р
031	OSLI	e) instructions or the drive system:		and disenga	ge	051	0511	Р
istlab	Ostlab	f) the wheelchair pressure(s), exp			ed tyre		istlab	Ostab
المار	le	g) instructions fo	r dealing with ty	re punctures;		- la	rali) ral	Р
Ostra	OSTA	h) the battery typ	e and nominal	voltage;	05	Do. Oz	the Ostion	Р
adab	delte	i) instructions for	- A	N N		D	القامم	Р
Ostlal	0	 j) instructions for including warning hazards (e.g. a p the charging area battery charger); 	gs regarding any cossibility of gas a, use of the wro	y potential sat accumulating ong type of	fety g in	Ostlab	(P)	ostlab P
astlab	ostlab	k) if required by t fitting an addition the intended occ can restrict their	al emergency s upant has an im	top device who	nere		stlab	Ostab
المر	100	I) instructions on can be folded to				rali	sah	P
OSTA	Ospa	m) instructions of the wheelchair of			ly of	0500	OSTAL OF	P
redati	adilib	n) instructions re when it is unoccu	upied (e.g. in a d	car or aeropla	ne);	ada	b	adah P
Ostlab	stali	 o) if the manufacting is intended for use the method of attoccupant restrains suitable tiedown 	se as a seat in a caching wheelch nts, and recommand restraint sy	n motor vehicle pair tiedown a mendations ab estems;	e, nd oout	ostlab	Qstlab	P
Ostlab	ostlab	p) if the manufactis not intended for warning to that e	or use in the mo ffect; n how to use the	tor vehicle, a e means for	Osila		ostlab	P
delta	~elab	maintaining a sitt circumstances in r) instructions on	which it should	be used;		riali	elah dalah	P
O.	O.	for maintaining a supplied with the	sitting posture			0	O.	P
ostlab	ostlab	s) the positions of additional loads;	050		asti	b	ostab	Р
ثامن		t) instructions for term storage (e.g for preparing it fo	g. longer than fo	ur months) ar		راه ر		P
action	-/1	i.e. proparing it is	nelle alloi wala	7 ASTE		ACTIVITY	/stl	S



Ostlab C) Qstl	ah	Ostlab		etlab	Qstlal	0	itlab
la .	X3LI	ab		Page 40 of 43	3	Repoi	rt No. Qst-23N09	0071-1SR
05 ¹⁰ 17	relip)	ostialo	adala	EN 121	84		nda ^D	ndli
	Clause	Requirement + T	est	U'	W.	Result - Remar	rk	Verdict
Ostlab	stlab	u) warning that to operation of develectromagnetic shops, automation	ices in its env fields (e.g. al	rironment that arm systems	emit	ostlab	Qsi	ab P
Ostlab	estlab	v) a warning tha wheelchair can the fields (e.g. those high-power sour	pe influenced e emitted by e	by electroma	gnetic	ostlab	Ostlab	Post
Ostlab	ostab	w) a warning that can be significar				.05	tlab	OS PD
		x) information or and of the whee		g of used batt	eries	. la	. la . la	P
Ostiali	Ostialia Ostialia	y) if the character the occupant as specified in Appe (EU) No 1300/20 (see Annex D fo	applicable) e endix M of Co 014 [19], a sta	exceed the lime commission Repartment to the	its gulation	dalu Osti Ib	ostiali autab	Ostlali P
Ostlati	(P)	z) information or safety notices ar ensuring the sup details;	nd product repolier has up-	calls, for exan to-date contac	nple by ct	Ostlab	(p) (St	P
dela	,120	bb) information of	der.		da).		, laD	P
060-	3500	cc) warranty info	LD**		or violing,	0:	j kom	OSLP P
الماد	الماني	oo, warranty iine	arriadion:		<u> </u>	delta	اماحہ طواحہ	
Open	13.4	Service informa	ation	090		0500	0317	Р
Ostlab	Stab	The service information necessary for the repair of the wheeparts	e maintenand	e, adjustmen	t and	Ostlab	Qsf	ab _P
astlab	13.5	Labelling	ostab	nd	de	octab	octlab	P
U.	W.	The manufacture for the following:		permanent la	belling		<i>W</i>	Р
Ostlad	Ostlab	 a) the maximum of the maximum mass of any other the wheelchair; 	occupant ma	ass and the m	aximum	(Istl ^{aD}	Optab
Ostlab	Ostab	b) devices for dis showing engage including a warn re-engaged befo	d and diseng ing that the d	aged position Irive system s	s, hould be	dan Ost	Qstlab Ostlab	Ostlan
Ostlab Jab	Ostab	or attempts to op c) for wheelchair use as a seat in attachment point occupant restrai	perate the whome services the interest of the contract of the	eelchair; Intended use cle, the positionair tie-down a	includes on of	de.	OstleD OstleD	05 ¹ P
0500	Q	d) for wheelchair seat in a motor v	rs not intende	ed to be used		Q5111	051	Р



الاام	addlo .	الهابي	EN 12184	Adl	فأمر فأو	الهامي ال	ad
Clause	Requirement + Tes	st	O.		Result - Rema	ark	Verdict
stlab	e) for Class A whe outdoors, a warnin			e	ostlak)	nstall P
14	Test report, tab	les and figu	ires		la.	- fe	Р
Silab	The test report sha information:	all contain the	following		Ostlan	Ostlan	P)5
delp	a) a unique report	number;)	dah		فأهاب	P
	b) the name and a	ddress of the	testing institut	ion;	Q.	P	Р
silab	c) the date of issue	e of the test re	eport;	05	dalo os	tlab ostlab	OS POD
uli	d) a reference to the 12184:2022;	nis document,	, i.e. EN		, la	roll)	Р
25	e) the name and a wheelchair;	ddress of the	manufacturer	of the	g and	CSUR	P
ļ	f) a description of the manufacturer's or type, unique identitivariations or access	vendor's trade fication numb	emark, model	or	Ostlah	(sthb P
stlab	g) the manufacture and motors and the batteries fitted to the	e type and ca	pacity of the	laP	0	stlab	osteb
r-lii	h) the supplier of the	ne sample;			. 10	ls	Р
Ostlan	i) details of the set specified in ISO 71 how it was equippe	76-22:2014,	including deta	ils of	Ostlan	Ostlan Os	Р
stab	j) the masses of th occupants and we		r human test	(lab)	ostlat)	05t al P
. Inli	k) where the contro settings used while		mmable, the		.tel\$	المن.	Р
STIG	I) a photograph of the test;	the sample e	quipped as du	ring	Ostin	05000	P
actab	m) the results of th	e tests;	D	adi	7	actiab	Pal
ostlab	n) if not all of the re have been applied requirements that have not;	(see Annex (have been ap	G), a list of the pplied and thos	e that	tah no	tlab ostlab	Pastlali
ortab	o) a statement as sample has met al of this document a requirements it has	l of the applic nd a list of all	able requirem	ents	b	artab	P
1.07	1334			1251	1	1.07	(15)



-Attachment 1: Photo attachment.



Photo 1: Overall view



Photo 2: Overall view





Photo 3: Overall view



Photo 4: Overall view

----- End of test report -----