

Report No.: 58250SC10028201

# Test Report

ZHEJIANG YOUQI TECHNOLOGY CO., LTD. Client Name

No.229, Dongda Street, Shanshi, Daxi town, Wenling Address

City, Zhejiang Province

**Electric Scooter Product Name** 

Sept. 26, 2021 Date



Clearlavez Zhong
Teny 7/2



#### **TEST REPORT**

#### EN 17128

Light motorized vehicles for the transportation of persons and goods and related facilities and not subject to type -approval for on-road use - Personal light electric vehicles (PLEV)

- Requirements and test methods

Report reference No...... 58250SC10028201

Compiled by ...... Clearloveq Zheng

Approved by....: Terry Tian

Date of issue...... Sept. 26, 2021

Contents.....: 31 pages

Testing laboratory ..... Anbotek (Guangzhou) Compliance Laboratory Limited

Room.508, Building.2, No.232, Kezhu Road, Science City,

Guangzhou Economic & Technology Development Area,

Guangzhou, Guangdong, China

Testing location..... ...: Same as above

Applicant...... ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

Province

Test specification

Standard ...... EN 17128:2020

Test procedure ...... Type test

TRF No. ..... EN17128A

Type of test object

Description ...... Electric Scooter

Trademark.....: UKAYE

Manufacturer..... ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

Input: 42V==-, 2A



#### Possible test case verdicts

- test case does not apply to the test object .....: N (N.A.)

- test object does meet the requirement ...... P (Pass)

- test object does not meet the requirement...... F (Fail)

#### Testing

Date of receipt of test item .....: Aug. 18, 2021

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a  $\square$  comma /  $\boxtimes$  point is used as the decimal separator.

#### **General product information:**

If no otherwise specified, all tests were performed on model U2.

are the same except that the product appearance.

The power of EUT supplied by an approved AC/DC charger.

AC/DC charger input: 100-240V~, 50/60Hz, 2.0A Max

AC/DC charger output: 42.0V==, 2.0A, 84W

Battery: 36V==, 7500mAh, 270Wh

#### Factory:

Name: ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

Address: No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province

#### Copy of marking plate

**Electric Scooter** 

Model: U2 Input: 42V==, 2A

IP54

ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province





Clause	Requirement – Test	Result - Remark	Verdict
Jiause	Requirement – Test	Result - Remark	verdict
ARL	Tak potek Anbor An	Thotal Anbo	1000
otek An	Classes of vehicles	potek anboten	Bupp
Anbotek Anbotek	Various personal light electric vehicles (vehicles) exist covering as many different uses offered to different users based on their age, mass, size and driving.	Anbotek Anbotek	Anbore Anbore
	The main classes of vehicle are defined below combined with the main design choices that characterize them	otek Pupotek Vupor	olek bu
otek Ant	General safety requirements and protective measures	Anbotek Anbotek	pupolok
unbotek	Vehicle shall comply with the specific requirements of all clauses of this standard.	Anbotek Anbotek	Anbo'P
	For vehicles which are not sold fully assembled, there shall be a maximum of three separate parts requiring assembly (e.g. steering device, wheels	Anbotek Anbote	k Aup
	and batteries), the necessary tools and detailed assembly instructions shall be provided which specify by a text and diagrams the operations to be	potek Anbotek Anb	albotek
Pur Vur	carried out as well as the clamping force.	Aupoter Aupotek	Anbotek
wpo tek	Electrical components	Anbotek Anbotek	Anbore
5.1 <sup>Am</sup>	General mechanic al strength	Arr tek sabote	n Aug
	The ESA including the battery shall have adequate mechanical strength and be constructed to withstand such rough handling that may be	potek Anbotek Anb	olek P
	expected in intended use and foreseeable misuse. Compliance is checked by: Applying impacts to the enclosures of ESA	Anbotek Anbotek	Anbotek
	mounted on the vehicles by means of the spring hammer as specified in EN 60068-2-75:2014. The	Anbotek Anbotek	Anbote
	ESA is rigidly supported and three impacts are applied to every point of the enclosure that is likely to be weak with an impact energy of 0.7±0.05J.	tek Anbotek Anboro	ok Vun
	Detachable ESA are submitted to free fall on a rigid surface as specified in EN 22248:1992 at a	hotek Anbotek	, nootek
	height of 0.90 m in three different positions. The positions shall be one surface, one edge and one corner of the enclosure that are likely to be the	Anbotek Anbotek	Anborel
	most onerous position.  After the test the ESA shall show no damage that could lead to emission of dangerous	Anbotek Anbotek	Anbe
	substances(gas or liquid) ignition, fire or overheating. A temperature rise test shall be performed, in accordance with 6.32.2. During the	Potek Vupotek Vupo	nbotek p
	test, the temperature rises are monitored continuously and shall not exceed the values	Anbotek Anbotek	Anbotek Lak
	shown in EN 60335-1:201 2., Table 3 and after the test the ESA shall show no damage or malfunction that could impair the safe use of the vehicles.		Anbore



Anbore	EN 17128	k Anboten Anbo	k Aubol
Clause	Requirement – Test	Result - Remark	Verdict
ter Willer	atek anbore Ann	Potek Pupos Visa	400
	Batteries and other electric conductive power supply systems shall be assessed and tested in accordance with EN 62133-1:2017 and EN 62133-	Aupotek Vupotek	nbo' P
Anbo	2:2017 or other relevant standards.	Anbore An	abotek
6.2	Electrical power on/off control	Anborek Anbo.	, p
tek Anbotel	An electrical power on/off control shall be fitted to on and power-off the driving power. It shall be apparent, easy to reach and unmistakable. This electrical power on/off control shall be activated voluntary by the user to enable the driving power.	lek Anbotek Anbotek	nbotek An
	The electrical power on/off system shall be designed such that, in the event of a malfunction, the vehicle shall still be able to stop or be able to be stopped with a smooth deceleration (as defined in Electric failure braking compensation).	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
tek Anbotel	The electrical power on/off system shall be located in a position easily reachable by the user with appropriate symbol given in.	potek Pupotek Vupo	pojek Vul
	On self -balancing vehicles or vehicles with electric brake, the power -off control shall not disconnect the power while driving: the power -off control shall only work without user on the vehicle.	Anbotek Anbotek	Anbotek Anbotek
6.3	Electrical cables and connections	Aupor Am sporek	Anboth
6.3.1	General	Anbar stek Anba	ek Au
stek Amb	All electrical connectors shall be selected to prevent the corrosion	ooler Anbusek Ar	potek P
6.3.2	Cable and plugs	Anbo. At abotek	Anborer
6.3.2.1	Requirements	Anbot tek anbotek	Antores
Vupotek	After the test there shall be no deterioration of the insulation on either assembly.	k Anbolek Anbolek	Panbore
	The cable cross sections shall be selected in accordance with EN 61558 - 1:2005, EN 61558-2-16:2009, EN 60335 -1:2012, EN 60335 -2-	potek Anbotek Anbo	potek
	29:2004, Table 11 or a temperature rise test shall be performed, in accordance with the temperature of the cables and plugs in use shall be at least 5°C lower than the maximum specified by the	Ambotek Ambotek	Anbotek Anbotek
6222	manufacturer.  Test method	Anbo tek nbotek	Pupole
6.3.2.2	boten Ando hek abof	k Aupo, W.	dna 4s
6.3.3	Wiring	otek Aupo, Au	otek -
	Wiring shall be checked according to the following sequence at an ambient room temperature.  a) Wire way shall be smooth and free from sharp edges. b)shall be protected so that they do not come into	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek	contact with burrs, cooling fins or similar sharp edges that may cause damage to their insulation. c) Holes in metal through which insulated wires	Anbotek Anbotek	k Anbore



EN 17128			ton My
Clause	Requirement – Test	Result - Remark	Verdict
VI VIDO	otek Anbore And	Potek Wupou W	Nos
	pass shall have smooth well-rounded surfaces or	bur spotek	Bupo,
	be provided with bushings.	Anbors Ans	botek
	d)shall be effectively prevented from coming into	otek anbore	Burn
	contact with moving parts.	Anbe	supos.
	Compliance with a), b), c) and d) shall be	w spoten Anbo	
	checked by physical inspection.	Mr. W. Po	16) PU
	e) Separate parts of the vehicles that can move in	rek anbore Ans	40.
	normal use or during user maintenance relative to	y seek of	10010
	each other, shall not cause undue stress to	Poles Vupa	4010
	electrical connections and internal conductors,	A bolek	BUPPE
	including those providing earthing continuity.	ambore Am	1080K
	an open coil spring is used to protect wire, it shall	stek ambore	Ame
	be correctly installed and insulated. Flexible	Anbo	" upoli
	metallic tubes shall not cause damage to the	s botok Anbo	100
	insulation of the conductors contained within them.	Alle Make Mol	ON AN
Pupo,	Ar. Andrew Andrew	ok anbore Ann	- 1
.3.4	Wiring harness	k rotok pu	pose
600	When a wiring harness is installed, it shall be	Apoles Pube	woley P
	positioned to avoid a I!1 y damage related to	stek supore	Dir
	contact with moving parts or sharp edges. All	Anbo	abore
	connections shall withstand a tensile force of 10 N	hotek Anbo	by.
	in any direction.	Ans ak hotek	Aupor
.4	Moisture resistance	Vupose bus	- to
wo tok	Aupo, W. Tok Poles, Vupa	toda, Not	Pur.
	The enclosure of electrical components of a fully	Anb.	ek P
	assembled vehicles shall comply with and be	tok storen An	00
	tested in accordance with IPX4 tested in	noor An	potek
Jek Mip	accordance with EN 60335-1:2012 .15. 1.	rok anbore	No.
.5	Resistance to vibration for electric functions	Anbe ak hotek	Anbor
.5.1	Requirements	Aupole. Vun	, hore
polek	And sek anboy An	notek Anbore	Vien
	This requirements applies to all PLEV classes 1 to	Ans ak hot	yk Bup
	4. And have botten and	tak Anboles Ans	No.
	The vehicle shall withstand a vibration test	h. tek sul	ole,
	representing the foreseeable use on roads and	Motek Anbo. Anbo.	401
	public areas.	Asion Ho	All Do.
	When tested according to the method described all	Anbore Anu	motel.
	electric functions shall be fully maintained.	tek aboter	VUD
	Verification shall be by function test after the	Anbo. A.	abote
Thores.	vibration test.	potek anboy	br.
.5.2	Test method	And hote	K Pup
Aupo.	August August August W.	And And And	
	Driving power management	and work and	P
.1	Driving power activation	Apres Mub.	- Polek
anb.	tok apole Mun	notek Anbore	400
.1.1	Requirements	Anu hotek	Anboro
100° B	Driving power shall only be provided following at	Autore Aug	Diell
	least two independent and dissimilar intentional	otek suboter	Burn
	actions by the user. In addition:	Vupo.	4 200
	a) For vehicles of c1 ass 1 or 2 with a partially	anborek Anbore	br.



181	EN 17128		
Clause	Requirement – Test	Result - Remark	Verdict
er Vupo.	And Andrew Andrew	Potek Vupo, Vu	Non
	shall not be delivered while moving forward at a	tek abotek	Bupo.
	speed of less than 3 km/h.	Anbo. Ar	Spoten
	Verification shall be by the test of 7.12.	-otek Anbore	bu.
	b) For vehicles of class 1 or 2, it shall be possible	Anb	Anboy
	for the user to power – off the driving power at any	s shoren Anbo	
	time during use in accordance with the driving	Air.	P.U.
	power procedure described by the manufacturer in	tek Anbore Ans	V.
	the instruction manual (see For vehicles of class 3	ii alek ont	O. Lo.
	or 4, the Driving power management shall not	Potek Aupo	1010
	power -off motor power at any specified speed .	ak hotek	bupo.
	Verification shall be by inspection and function	anbore Ans	rotek
	test.	rek anboier	AME
	c) For vehicles of class 1 and 2, the cut-off of	Aupo. W.	hote
	driving power shall take priority over the	Potok Vupor	Pres.
	maintenance of power assistance (for example, if	Ann	lno M
	the user holds his accelerator grip while he is	ek aboter Anbo	
	actuating the brake , the power assistance shall be	All tolk	CERT
	cut off).	otek Anbore An	40.
	tek Aupo, W. Tek Potek W	100 Stok	poro
	d) Vehicles of class 3 or 4 shall act as follows:	abotek Anbo	10K
	Horizontal level foot rests (maintain constant)	VII.	Aupo.
	speed),	Augore Aug	wo <sup>te</sup>
	2) Tilt back of foot rest shall result in a progressive	k. sek anboier	VUIC
	controlled braking,	Anbo. A.	4
	3) Foot rest tilt to the front shall result in a	K hotek Anbor	br.
	progressive controlled acceleration,	And	lek.
	4) The vehicle shall be self-balancing in all	tek above. And	
	operating states.	100, W.	100100
	stek supote Ame	Fotok Aupon	No.
	e) When the vehicle approaches the maximum	And	anbore
	speed of its class , the driving power shall be	aboles And	210
	reduced in such a way that the maximum speed	W. Potok	MUPPO
	limit will not be exceeded. The driving power shall	anbors Air	
	be managed smoothly and progressively.	i siek anbore	VU
	f) In the case where a class 1 or 2 vehicle is	AND AND	101
	equipped with a mechanical brake system, the	ack botek Anbi	1
	driving power shall be cut off at the	Por Vu.	potek
	commencement of braking	otek Anbore A	100
	g) In the case where the vehicle is equipped with	Aup.	Vupole
	an electric brake, the driving power management	botek Anbo	10
	shall be such that braking starts immediately.	Arr. wotek	Anbo.
	h) For self-balancing vehicles, the driving power	Anboro Ant	1
	shall ensure that the vehicle speed cannot exceed	n tek aboten	Ano
	the maximum speed of the vehicle's class.	Or Vupo, VI.	1/2
	i) In case of overspeed during driving , the	ak sorek anbo	
	following shall apply to vehicles of class 3 or 4:	John Mup	-otek
	1) There shall be audible and if possible (in the	sek aboven Ar	Up.
	particular vehicle) visual and other (physical)	Aupor An	POLSK
	warnings to alert the user of a system issue.	otek anbore	VUL
	2) In all cases , the vehicle shall be slowed	Anbo	aboter
	automatically and brought to a safe speed (lower	hotek Anbors	Br.
	than the maximum speed) .	Ans K -otek	anbo
	j) In case of overheating of the driving power	ok aboter And	M.
	THE DESCRIPTION OF THE WITHING POWER	DA-7	4.00



lause	Requirement – Test	Result - Remark	Verdict
- npots	requirement rest	Tresuit Treman	Verdict
A. h.	apply for vehicles of class 3 or 4.	Pupor An	"potak
	There shall be audible and if possible (in the	abotek Anbo	No.
	particular vehicle) visual and other (physical)	Arr. sek abotek	Vupo.
	warnings to alert the user of a system issue.	Anbor Al.	Node.
	2) In all cases, the vehicle shall be slowed	w hotek Anbor	br.
	automatically and brought to a safe stop.	And ak hot	el Ant
	3) It shall not be possible to drive the self-	olek Aupole Aur	400
	balancing vehicle until the vehicle's control system	LK Sotek An	OOTO
	detects that the initiating problem has been	Apoles Ann	1010K
	corrected.	otek Anboren	PUD -K
	k) In case of insufficient battery following shall	Anbo	Vupose.
	apply for vehicles of class 3 or 4:	abotek Anbo	1,000
	There shall be audible and if possible (in the	A. stek abotek	Anbo
	particular vehicle) visual and other (physical)	Vipo. bi.	dra No
	warnings to alert the user of a system issue.	ek spotek Wipo,	by.
	2) In all cases , the vehicle shall be slowed	or but	OFOR
	automatically and brought to a safe stop.	botek Anbor Am	401
	3) It shall not be possible to drive the self-	lek hotek	Milos,
	balancing vehicle until the vehicle's control system	Anbore And	abolek.
	detects that the initiating problem has been	motek Anbore	Villa
	corrected.	And ak wotek	Anbore
	I) Acceleration Limitation	Anbore And	\/-
	The acceleration of the vehicle shall be smooth	k kotek anbote	Ann
	without shocks and limited to 2 mjs2 in order to	Var. Vuon	olek .
Anbore	avoid unstable riding conditions.	yek supoter And	N.
.1.2	Test method	upo potek	Wipole
.2	Power failure of control system	Anbor An otek	VUPOLOR
100,0	For class 1 and class 2 vehicles , in the event of an	antoten and	D (c)
	electrical power failure the vehicle shall be able to	hotek Anbore	bu
	brake normally come to a standstill with a	Am note	K Anb
	deceleration between (1.5 - 2) m/s2.	tak Anbore Ann	No.
	For class 3 and class 4 vehicles, a fault condition	de Veren No.	0
	in the power control system shall be indicated by a	Moto. Vub.	2010K
	warning signal on the vehicle itself or to the remote	notek Anboten	The Children
	control.	Anb. K Stok	anbore
	In a driving condition the loss of connection to the	anboten Anbo	10100
	In a driving condition the loss of connection to the warning device, on the remote control, shall result	w. atek anbotek	Anb
	in a speed reduction to 6 km/h or less for a Class 4		L anbo
	vehicle; the speed reduction shall happen in a safe		. por
	manner without creating additional hazards with	10K 70C	PASE D
	corresponding audio notification and tilt back of	Notek Anbo, An	Yer
	decks on self-balancing vehicles.	ek bolek A	upo,
- Ar	stek Importer Ann	rupor Au	" wolek
3	Unintended or unauthorized use of vehicle	Anbotek Anbot	All words
botek	Means shall be provided to prevent an unintended	otek anbotek	<sup>A™</sup> P
	or unauthorized use of the vehicle, e.g. keys,	AMOS	. 500



Notok.	Lupo, W. Voley Vupotely Vupo,	-k orek Ansore	0.0
Clause	Requirement – Test	Result - Remark	Verdict
AUDO	atek Anbore And	potok Anbor Am	Non
otek An	Speed limitation	Anbotek Anbotek	upo
3.1	Pedestrian mode	Anbotek Anbotek	Vupo.
3.1.1	General	k abotek Anbotek	Vope
Anbotek Anbot	Vehicles classes 2 and 4 shall be equipped with a pedestrian mode for limiting the speed to a maximum of 6 km/h.  A distinctive and visible warning light shall be	otek Anbotek Anbote	Pani stek shotek
	provided to indicate both to the user and others in the vicinity of the vehicle when pedestrian mode is in operation. It shall be active only when the pedestrian mode is activated.  Verification shall be in accordance with 8.1.2.	Anbotek Anbotek	Anbotek Anbote
3.1.2	Test method	k hotek anbotel	- bu
3 .2	Maximum speed with power assistance	otek anbotek Anb	10k
3.2.1	Requirements	potek Anbotek A	Upore.
	The maximum speed for which the electric motor gives assistance shall be in accordance with the maximum permitted speed for the class. It may differ by (:t 10 %) of the maximum speed marked on the vehicle given in the instruction manual sheet and determined according to the test method described in 8.2.2. The maximum speed in this mode shall not exceed 25 km/h.	Anbotek Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbote <sup>k</sup>
3.2.2	Test method	Aupo. W. Społek	Vupoter.
3.3	Reverse mode	Vupo, vek społek	Autote
3.3.1	Requirement	Anbor otek Anborek	<u>Vup,</u>
otek Anbote	Vehicles with a reverse driving function shall be equipped with a dev ice limiting its speed to 6 km/h when travelling in reverse. If travelling in reverse, an active sound signal shall be audible.	botek Anbotek Anbo	ootek ootek
9 unbotek	Electromagnetic compatibility	botek Anbote	And P
10.1 otok	General	Anbotek Anbotek	Vupo
Anbotek Anbotek Anbotek Anbotek	If a vehicle has an integrated and built-in battery charging system (i. e; integrated charger), the user shall be protected against hazards due to accidental contact with the charging connections on the vehicle and its charging systems. For enclosures of charging system, resistance. Battery charging systems shall be in accordance with EN IEC 62485 series and EN 60204-1 or EN 60335-2-29:2004 as appropriate.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Pitti ootek Anbotek Anbotek
	The charging system shall prevent any hazards arising because of overloading, overcharge and	ek Anbotek Anbotek	Anbo



Nator	Autoria Ani	An and	ton M
lause	Requirement – Test	Result - Remark	Verdict
Anbo	Antores Antores	Hotek Anbote A	No.
otek Ar	overcurrent and over discharge determined	An arek anbotek	Vupo,
0.2	Test method	Anbotek Anbotek	AnboP
0.3	Safeguarding and complementary protective	brigg rek spoken	NP O
	measures	el Anboro An	tel an
	The following measures shall be applied where appropriate:	polek Anbore And	*ok
	charging systems shall be designed in such a way	rek upotek M	400.
	that the charging connections are only activated	Wipo. W. Wek	anbolen
	when the vehicle is connected to them; charging	anbotek Anbo	Noto.
	systems shall display the charging status or give a signal when the battery is fully charged; charging	w. stek supoten	Ambo
	systems shall be designed in such a way that the	Vupo, br.	today
	correct charging of the battery is automatically	ek apotek Vupo,	by.
	supervised, and thus hazards caused by	VII. 100	ien Au
	overloading or charging of deeply discharged	o ek Anbors An	40.
· hode	batteries are prevented.	ok hotek Ar	100,
1	Energy storage within the vehicle	Mipole Ans	Napotek P
1.1	Requirements	Amboren Ambo	anbo'P"
ipole.	The vehicle as well as the sets of energy storage	"upotek Pupo	P
	(i. e. battery) shall be designed and constructed	A. sek anboten	Amo
	such as to prevent any risk of fire and mechanical	W. Wupo. W.	10 No.
	deterioration resulting from foreseeable abnormal	ak shotek Anbo	be.
	use.	DOL VILL	polek
	Compliance with this requirement is checked by	otek Anbors An	- No.
	the test described in 11.2.	Visor K Polek	MADOL
	During the test, the vehicle and the batteries shall	Anbore. Anb	10100
	not emit any flames, molten metal or release any	A anboie	VUD
	toxic or flammable gas in hazardous amounts.	Anbo. Melek	anbore
	Protective enclosures shall show no damage when	Anborek Anbo	be.
	checked visually.	All sak abot	Or VUP
	Safety and compatibility of the charger/battery	otak Anbors An	101
	assembly shall be provided in accordance with the charger/battery manufacturer's specifications.	ok wotok and	00
	Any exposed person shall be protected from direct	TUDOLO VUI	potek
	or indirect contact with live parts on the vehicle.	work Aupore	Mr.
	The energy storage shall be protected in order to	And	Anbore
	prevent any accidental short circuit. It is necessary	Anbotek Anbo	0,00
	to ensure that batteries are protected against any	A. atok abotek	AUDO
	overcharging, a suitable protective device against	Aupo. Air	do No
papole.	overheating and short circuits shall be provided.	k Potek Vupo,	b1.
1.2	Test method	or An otek and	jotek P
2	Structural integrity	inform Amb	anbotek P
2.1	General	Vupojer Wupo	anboteP
2.1.1	Numbers and conditioning of samples	Anboten Anbo	Pier
Vipoles.	In general, for static, impact and fatigue tests, each	h Anbotek Anbors	k Pa
	test shall be carried out on a new sample, but if	II An above	W. Bub.

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Clause	Requirement – Test	Result - Remark	Verdict
Vupos,	Aug Augores Augo, W.	wotek Anbotek Ank	No.
in You	carry out all of the tests on the same sample by	We Polek	Vupo.
	following the fatigue, then static and then impact	Anbore Ann	-botek
	test sequence.	hotek Anbore	Vien
	When more than one test is carried out on the	Anb K hotek	Aupor
	same sample, the test sequence shall be clearly	Aupole. Aup	V
	recorded in the test report or record of testing.  It should be noted that if more than one test is	k nick anbore	Dist
	carried out on the same sample, earlier tests can	Anb	York
	influence the results of subsequent tests. Also, if a	stek Anbotes Ant	-No.
	sample fails when it has been subjected to more	upo.	nboles
	than one test ,a direct comparison with the result of	abotek Anbo	Note
	a single test is not possible.	by. sek apolek	AUDO
	For all strength tests , samples shall be fully	Anbo, Air	nbote
- Albois	assembled.	anbo.	br.
2.1.2	Test condition tolerances	VII.	Pant
2.1.3	Crack detection	lek Vupo, v	e P
mbore	And alek auto, Air	ack spotek And	
	Standardized methods may be used to highlight	ibo, wek	nboter P
	the presence of cracks when visible cracks are	aborek Anbo	Norek
	specified as criteria of failure in the tests described in this standard.	All tek	Aupo
2.2	Static load test	Auto, by	MP N
anboy	All Anboy Mark	Anboren Anbo	
2.2.1	Deck/frame	ok botek Anbote	P <sub>Up</sub>
2.2.1.1	Requirement	tek spotek Aup	P
. V	When tested according to the method described in	Por.	P P
	sub clauses 12.2.1.2. 12.2.1.3 or shall be no	abotek Anbo	Note
	cracks or fractures, or collapse of the structure or	Vi. Yek - Społek	Anbo
	unfolding. Where the construction of the vehicle	Anbor Air	20010
	does not allow the full mass to be applied in	potek Anbo	ber.
	normal use to each deck then the maximum mass is divided by two to achieve the test load for each	Ann ak abotel	Anb
	deck.	ak Aupor Air	1/01
2.2.1.2	Test method -2-wheeled single track vehicle	otek Anbotek Anbo	Р
2.2.1.3	Test method -3-wheeled vehicle	sek aborek A	Р
***	stek suport Ann k motek	Aupo, N. Stak	poler
2.2.1.4	Test method -self-balancing vehicle	Anboren Anbo	Potel
2.2.2	Handle bar and steering column	nbotek Anbots	Р
2.2.2.1	Bending test	k potek Aupoten	P
2.2.2.1.1	Requirements	Ans rek ande	P
۷.۷.۷.۱.۱	ak bole And tek an	otek Wipp. W.	dek
	When tested according to the method described in	notek Anbore. Ar	Р
	1 2.2.2.1.2, there shall be no cracks or fractures,	Aug. K. Stok	Aupole.
	or deterioration of the operation of the handlebar or	aboten Anbo	, dok
22242	steering column.	Mr. Stek Subotek	Aupo
2.2.2.1.2	Test methods	Anbo. Air	P



No.	EN 17128	Allkote	N ANT
Clause	Requirement – Test	Result - Remark	Verdict
SK WUDO.	ntek anbores Ans	Potek Pupots Vis	Nos
12.2.2.2 .1	Requirements	otek oupotek	Wpo, b
Anbotek Anbotek	Following the test performed according to the method described in 12.2 .2.2.2. there shall be no cracks or fractures, or deterioration of the operation of the handlebar or steering column. Nor shall there be any movement of the telescopic part.	Anbotek Anbotek	Anb P
12.2.2.2.2	Test method	der Mipp	iek P
12.2.2.3	Torque test	Pipotok Bupo, W.	nbote <sup>k</sup> P
12.2.2.3.1	Requirement	Anbotek kobo	anbo P*
Anbotek Anbotek	When tested according to the method described in 12.2.2.3.2. there shall be no movement of the handlebar stem in relation to the steering tube.	Anbotek Anbotek	A Poste
12.2.2.3.2	Test method	lek Anbore An	P P
12.2.2.4	Handlebar grips and plugs	potek Aupor Au	notek-
2.2.2.4.1	Requirements	Aupotek Aupon	anbolek
Anbotek Anbotek	The ends of the handlebar shall be fitted with grips or end plugs. When tested according to the method described in 1 2.2.2.4.2, the grips or plugs shall withstand a dismantling force of 70 N.	Anbotek Anbotek	Pre Anbore
2.2.2.4.2	Test method	And hotek Anbo	le <sub>jr</sub> 1
12.2.2.5	Telescopic handbar(if fitted)	por Air.	potek
Anbotek Anbotek	The handlebar stem shall be provided with one of the two following means to guarantee a safe insertion depth into the steering column:  a) the handlebar stem shall be provided with a permanent, transverse mark, of a length greater	Anbotek Anbotek Anbotek Anbotek	Anbolek Anbolek
	than or equal to the external diameter of the handlebar stem clearly indicating the minimum depth for inserting its rod into the steering column.	otek Anbotek Anbo	ok b
	The insertion mark shall be positioned at least 2.5 times the external diameter of the rod from the lower end of the handlebar stem. The length	Anbotek Anbotek Ar	anbotek anbotek
	of the solid section of the handlebar stem below the mark shall be at least equal to the external diameter of the rod;	Anbotek Anbotek	Anbotok
	b) the handlebar stem shall be provided with a permanent stop to prevent it from being drawn out of the steering column beyond the minimum insert ion depth defined in a)	notek Anbotek Anbot	ootek p
2.3	Frontal impact resistance	Anbores Anbo	vupotek
2.3.1	Requirements for class 2	Aupoton Aupo.	Vuporek
Anbolek	When tested according to the method described in 12.3.3. there shall be no visible cracks or fractures	Anbotek Anbotek	Noo



You	EN 17128	by, and to	Ann Ant
Clause	Requirement – Test	Result - Remark	Verdict
Sk Vupo,	Arbores Anbores	hotek Anbotes And	Non
rek al	cracks or fractures in any part of the frame and	ok bolek	upo,
	there shall be no separation of any elements of the	Aupore Au	hotek
	suspension system. The assembly remains	atek anbore.	VUID
	operational even if significant clearances are	Anbo A. Kek	abole
	found. These clearances are acceptable if they do	hotek Anbo	b.
	not involve the safety of the user. In locking of the	Ann ok hotel	Anto
	folding system, if any, shall be checked when the	lek anbore Ans	.V.
	scooter is unfolded. If applicable, the folding	I Sek Joh	10.
Anb	mechanisms shall remain locked.	motek Anbo	You
2.3.2	Test method for vehicle of class 2	rick apolek	"po,
12.3.3	Requirements for class 4	Villa Villa	VUDO-GIV
2.0.0	The motor Aupo, In tak	abotek Anbo	P. (2)
	When tested according to the method described in	wotek Anbotek	N
	there shall be no visible cracks or fractures in any	And	day
	part of the frame and there shall be no separation	ek botek Anbo	Jan.
	of any elements of the suspension system . The	View View View	10/4
	assembly remains operational even if significant	otek anbore Ans	40.
	clearances are found. These clearances are	tok .	10010
	acceptable if they do not involve the safety of the	botek Anbo	No.K
	user.	VII.	Fupo.
2.3.4	Test method for vehicle of class 4	Auport Air	abote
anboter	The vehicle shall jump/drive over at 8-10 km/h of a	botek Anber	Р
	pavement step down (foreseeable risk) where the	Ann ok botek	Anb
	step should be limited to of the wheel diameter	ok anbore Ans	AG.
	(see Figure 13). The test shall be conducted	rek nbo	
	with the mass of the maximum design load	potek Anbo	401
	separated to the two platforms. If appropriate, tyre	ok botek Ar	100.
	pressure shall be adjusted according to the	anbore Ans	1010H
	maximum value given by the manufacturer.	rek abote.	And
	Repeat the test and then check for damages.	Anbo. A. Kok	" upole
anboter	And Andrew Andrew And	-botek Anber	br.
12.4	Fatigue test (dynamic)	Ar. tek abotek	+up.
Anb	O potek pabore And	lak vupo. br.	No
2.4.1	General	otek Anbotek Anbo	"
d. 49.	All types of vehicles fitted with a mechanical linked	Notes No	P
	handlebar shall be subjected to this test.	anbole Anto	Lotek
	The head tube/steering clearance/fork link can	rek aboter	AUD
	influence failures during handlebar fatigue tests.	Anbo. An	aboto!
	For this reason, a handlebar shall always be tested	Motel Anbors	Vien
	on a complete product. When there is a folding	And	anbo
	mechanism, this enables the handlebar's strength	K aboten Anbu	Pr.
	to be tested at the same time.	Vi. Vok Pol	Ble V.
	In the case of suspension frames where the rigidity	otek Anbore Ans	400
	of the suspensions can be adjusted, adjust the	in Nek an	porto
	suspensions to provide maximum stiffness.	aboter Anbe	Yor
	In the case of a pneumatic damper for which the	All Hotek	Aupo.
	air pressure cannot be adjusted, rep lace the	anbore Ans	hotek
	suspension unit with a rigid link, making sure that	otek suboter	AUL
	the end fastening systems and the lateral rigidity	Aupo W.	abo
	accurately simulate the characteristics of the	ok hotek Anbor	bere
	original system .	VU.	3%



Notak	Nupo, Mr. Poker Voctor Vupo,	Water Agent	Vis.
Clause	Requirement – Test	Result - Remark	Verdict
Anb.	atek Anbore And	hotek Anbo. Ar.	Non
	For suspension frames on which the chain stays	ek abotek	upo.
	do not have pivots but use the bending	Anbor An	-potek
	phenomenon, check that any dampers are	stek anbore	Vien
	adjusted to provide the minimum strength in order	Anbo	"hole
	to ensure a suitable check of the frame.	hotek Anbo	p.
	When a suspension frame has adjustable supports	Ant	ant
	0 1' links to vary the strength of the scooter against	rek abole And	V.
	the ground-contact forces or to modify the attitude	bek op	100
	of the these adjustable components to ensure	wołek Anbor An	400
	maximum forces in the frame.	A STORY	poro
2.4.2	Requirement	abole. And	- 0 <del>10</del> /c
	anbor Ann Ak notek Anbor	by apoton	Aupo
'Up	When tested according to the method described in	AUPO. W.	Nove
	there shall be no visible cracks	hotek Anbord	ber.
	or fractures in any point of the folding mechanism -	And	ant
	head tube-handlebar assembly . There shall be no	ek abotek Anb	
	visible cracks or fractures in any part of the frame	W. Pok Poc	100
	and there shall be no separation of any elements	-otek Anbors Air	400
	of the suspension system. The assembly remains	ribe a stok	100,00
	operational even if significant clearances are	aboten Anbo	North
	found.	Viv.	Aupo
	These clearances are acceptable if they do not	anbore And	510010
	involve the safety of the user. In locking of the	otok anbore	Vision
	folding system, if any, shall be checked when the	Anbo	dna
anbole.	scooter is unfolded.	ak shotek Anbo	he.
2.4.3	Test method for 2-wheeled single track vehicle	Ar. stek	I
And	And Andrews	potek Anbo. A.	1970-
2.4.4	Test method for 3-wheeled single track vehicle	abotek Anboten Ar	Note L
2.4.5	Test method for a self-balancing vehicle	Anbotes.	And
2 .5	Procedure	tup.	Anbore
Aupo.	otek Anboten Anbo k notek	Anbore Ans	-101
apoles	a) The self-balancing vehicle is positioned on the	k wolek Anbor	Р
	vibration machine supporting if necessary in	AUD.	elt o
	accordance with either, as appropriate, with the	stek anbotes Anbo	
	test load or test dummy applying the load(s) in	Do. W.	poter
	accordance to	holek Anboy Al	490
	b) Visible damage such as fractures, deformation,	Mu. Potek	Aupor
	jiggling, looseness or disengagement of parts,	Anbore Anb	1090
	and changes in self-balancing vehicle function	atek abotek	AUD
	shall be recorded.	Aupo. Wi.	20%
poter	And atek anbore And	k hotek Anbort	b., .
3	Edges and protrusions	Aug Not Not	B/K P
Aupo.	h. dek abote. Anb.	stek anbore And	L.M.
3.1	General	niek an	oye P
	These requirements are intended to address the	abotek Anbo	4910
	hazards associated with the users of vehicles	All botek	Aupo.
	falling on projections or rigid components (e.g.	Anbor Ans	botek
	handlebars , levers) on vehicle possibly causing	ntek anbore	Vien
VUL	internal injury or skin puncture.	Anbo Anbo	000
3. 2	Sharp edges	k kotek Anbo	60.
	LATE AND THE RESIDENCE OF THE PERSON OF THE		No.



Clause	Requirement – Test	Result - Remark	Verdict
the state of	rodan anibant root Anibana Ani	Troodic Tromain	od Granot
3.3	Protrusions	Wole Yu.	abotek
O.J. Ani	Tourdsions	abotek Anbo.	Pr.
upotek.	Tubes and rigid components in the form of projections which constitute a puncture hazard to the user shall be protected.	Anbotek Anbotek	Amb P Ambote
	Screw threads which constitute a puncture/cut hazard shall be limited to a protrusion length of one major diameter of the screw beyond the	lek Anbotek Anbot	ootek Ant
	internally threaded mating part.	abotek Anbo Ask	abolek.
4	Moving parts	Anbotek Anbotek	Anborok
4.1	Clearance between moving parts	Anbotek Anbotek	Anto Ofe
Anbotek	To prevent crushing of fingers the distance separating accessible moving parts from other moving parts or from fixed parts of the vehicle	ek Anbotek Anbote	potek panb
	shall, either be less than 5 mm, or greater than 18 mm in any position. This requirement does not apply to the wheel with	potek Anbotek	Albotek
	its support systems, or to the rear brake/braking system, if any, or to brake actuating levers.	Anbotek Anbotek	Anbore
4.2	Guarding of moving parts	ak Anbotek Anbote	w - Aup
20010	Wheels shall be covered to avoid unintentional	k kojek anb	P 1
	contact between a foot of the user and the moving wheel.	botek Anbotek	Arbotek Arbotek
4.3	Folding mechanism	hotek Anborek	Aupo,
4.3.1	General requirements	Anbotek Anbotek	k hupo,
4.3.1.1	General	ak Anborek Anbore	olek Pur
Anbore	Vehicles that can be folded for storage or	Polek Vupojen Vup	otek P
	transportation shall be fitted with one or more locking mechanism(s). The locking mechanism(s) shall comply with the requirements in	Anbotek Anboten	anbotek
	The function of any operating or locking device shall not be impaired after being tested in	Anbotek Anbotek	Anbotek
	accordance with 14.3.1.2. Folding mechanisms shall be designed so that the	Anbotek Anbotek	ak Anbo
	vehicles can be locked for u se in a simple, stable and safe way and folding shall not damage cables. No locking mechanism shall contact the wheels or	otek Anbotek Anbr	Polek W
	tyres during riding, and it shall be impossible to unintentionally loosen or unlock the folding	Anbotek Anbotes A	anbotek
	mechanisms during riding.	Anbotes Anbotek	Anbotek
4.3.1.2	Incomplete deployment	Aupo, W.	-500



Clause	Requirement – Test	Result - Remark	Verdict
Sir Vulpay	And Andrew Andrew	hotek Anboten And	No.
Anbotek Anbotek	at least one locking device shall engage automatically when the vehicle is unfolded for use. If the locking device is not visible damaging the vehicle, a second sample may be used.	Anbotek Anbotek	Anbotek Anbotek
14.3.1.3	Unintentional release of locking mechanism(s)	ak hotek Anbote	- Anb
otek Anbotek Anbotek Anbotek	To avoid unintentional release, one of the following conditions shall be fulfilled:  a) there shall be at least one operating device which fulfils the following:  1) the operating device shall require at least two consecutive actions, the second being dependent on the first having been carried out and maintained by the user; and	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbotek Anbotek
	2) the operating device shall not be activated or damaged in one single action during testing in accordance with 14.3.1.3; or b) there shall be two separate and independent	ek Anbotek Anbote Botek Anbotek Anbote	lek Vun
	operating devices which fulfil one of the following:  1) where one operating device is intended to be operated by foot (e . g. by its position , shape , according to the manufacturer's instructions for use.) it shall automatically return to its original status and the locking device shall	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbotek Anbotek
	reengage; or 2) where both operating devices are intended to be operated by hand(s) (e. g. by their position, shape, according to the manufacturer's instructions for use.) they shall both automatically return to their original status and the locking devices shall	Anbotek Anbotek Anbotek	potek Anbotek
Anbotek Anbotek	reengage. When tested in accordance to the vehicle shall not fold and the locking device(s) shall not be released.	ak Anbotek Anbotek	ek Aup.
14.3.2	Test methods	Potek Anbore Ann	otek
5 Anbi	Adequate stability	Aupotek Aupoter.	anbole <sup>tt</sup>
5.1	Footrest/ deck	Anbotek Anbotek	Anbotek
Anbotek	In case the user is standing permanently, each deck shall be equipped with an anti-slide surface with an area of at least 150 cm2.	k Anbotek Anbotek	ek Pupe
	In case the user is seating normally (not standing) while driving, the footrest shall be anti-slide and shall have a minimum length of 6.5 cm. In case the user is standing momentarily and the	Anbotek Anbotek An	ootek Anbotek
	vehicle has an integrated seat , the footrest shall be anti-slide and shall have a minimum length of 6.5 cm and a minimum width of 10 cm	Anbotek Anbotek	Anbotek Anbo
	270	K NO' AIL	



No appoint	D. Anbo. A. Coleit Anbetel Anb	District American	
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	Toll Bately Anbore And	Potek Pupo, W.	Non
	oble Ann tek anbotek Anbo	Lotek Anboten	Bupo
Anbotek Anbotek	The handlebar height adjustment system shall be fitted with devices to avoid inadvertent separation or detachment during use.	Ambotek Ambotek	Anboh Anboh
5.3	Surface	otek Anbotek Anbor	Vok -bu
5.3.1	Slippery surface	Posek Vuposen Vu	obolek-
5.3.1.1	Requirements for wheel adhesion	Anbotek Anbos	Anborok
Aupotek Vupotek	The wheels shall be constructed from non-slip material. This requirement is considered to be fulfilled if coefficient of adhesion, u0, of at least 0.3 is achieved in the test according to 15.1.3.2.	Anbotek Anbotek	Anti-
15.3.1.2	Wheel adhesion test	-otek Anbotek Anb	Cler
15.3.2	Irregular surface	abotek Anbotek	Alpo, otek
	When loaded with a 90 kg mass, the dimensions of the tyres of the vehicle shall be:  a) For vehicle with aligned wheels or with one front wheel: the front tyre shall have a minimum diameter of 125 mm and a minimum width of 25 mm the rear tyre shall have a minimum width of 25 mm b) For self-balancing vehicle: the tyre shall have a minimum diameter of 125 mm and a minimum width of25 mm c) For all others vehicles: - the tyre shall have a minimum diameter of 125 mm or a minimum width of 25 mm	Anbo. A.	Anbotek Anbotek Anbotek Anbotek
5.4	Braking devices	k Anhotek Anbo	1
nbotek Anb	All vehicles shall be equipped with service brake system and, when indicated, a parking brake or parking device as follows:  a) Class 1 and 2 single track vehicles (e.g. vehicle with aligned wheels) shall be equipped with at least one braking device;	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbotek
	1 and 2 multi-track vehicles (e.g. vehicle with unaligned wheels) shall be equipped with a parking device and one of the following:  1) If there are two rear wheels, the vehicle shall	otek Anbotek Anbo	lok b
	be equipped with a braking device on all rear wheels or an independent front and a combined rear wheels brake. The braking device shall be operated by the actuation of a single control or all wheel integrated braking system,  2) If there is one rear wheel, the vehicle shall be	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek



Anbotek	EN 17128	Anbotek Anbotes	k Anbo
Clause	Requirement – Test	Result - Remark	Verdict
VILLE VILLE	And Anbore And	Potek Vupo, Vi	Non
	or with independent front wheel and rear wheel brakes; c) Class 3 and 4 multi-track vehicles shall be equipped with an acceleration controlled braking system.	Anbotek Anbotek	Anbotek Anbotek
	d) Class 3 and 4 sing le track se If- balancing vehicles shall be equipped with a brake.  When a parking brake or parking device is not required, instructions to avoid the vehicle when unattended shall be provided in the owner's manual.	anbotek Anbotek Anbotek Anbotek	Vipotek Vipotek Visek Vipo
15.4.2	Braking performance	Vupojek Wupojek	Augotek
15.4.2.1	General requirements	ok Anbotek Anbotek	-Vupo,
	All vehicle shall meet each of the requirements specified in the following paragraphs unless otherwise indicated.  A vehicle shall have a configuration that enables a	botek Anbotek Anbr	potek
	user to actuate the braking device by hand with a lever or by foot while being in a normal driving position and with both hands on the steering control.  In case the vehicle is not equipped with a handlbar, the actuation of the braking device shall	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbore Anborek Anbor
	be performed according to the instructions provided by the manufacturer in accordance with the second sentence of 7.1. 1. d). These instructions shall be a part of the user's manual.	Anbotek Anbotek Anbo	Anbotek Anbotek
15.4.2.2	Hand operated braking system - Strength test	Anbotek Anbotek	MP hot
15.4.2.3	Dry stop	k Anbolek Anbole	ek vu
	When the brakes are tested in accordance with the test procedure set out, the following condition shall be met: - the Mean Fully Developed Deceleration: ≥1.7(m/s2).	Anbotek Anbotek Anbotek An	Anbatak
Anbotek Anbotek	The vehicle speed at the start of braking shall be 90 % of the maximum speed ofthe vehicle achievable solely by power assistance.	k Anbotek Anbotek	ar anton
15.4.2.4	Vehicle behaviour during braking	otek Vupote Vun	otek -
	During the tests, the following shall not occur in a way which causes the user to have to use his feet, other han for the application of the brake, to control the vehicle:  a) excessive juddering; b) front wheel locking;	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
	c) vehicle instability d) user 's loss of control or balance;	Anbo hotek Anbot	Pr. Dr.



Vur.	EN 17128	Anbo K wore	k anb
Clause	Requirement – Test	Result - Remark	Verdict
Vupo,	Mek Aupoles Aug	Hotek Anbors An	Non
	e) excessive side-skiddi	hotek Anbotek	upo,
15.4.2.5	Electric failure braking compensation	Anbotek Anbotek	Aupo-
Anbotek Anbotek	In the event of an electric bra king failure, the vehicle shall be ab le to brake normally come to a standstill with a minimum deceleration of 1.25 m/s2 as described.	lek Anbotek Anbote	PP Anb
15.4.2.6	Parking device	potek Anbotek	nborok
Anbotek Anbotek	When required in accordance with the parking device shall make it possible to maintain in the vehicle stationary on up or down gradient of 18 % even in the absence of the user. The user shall be able to achieve this parking action from the riding	Anbotek Anbotek  Anbotek Anbotek	Amb P Anbotel
	position. The parking dev ice system shall have a control which is separate from the service braking device controls. The vehicle shall be held in the locked in the park ing position by a purely mechanical device.	botek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
15.4.3	Test methods	Autoriek Autoriek	Anbe
16	Presence awareness	ak Anbo Motek Anbo	· b
6.1	Lighting	Poter, Vun	potek
6.1.1	Retro-reflectors	anbotek Anbotek	Anber
Anbotek Anbotek Anbote	Vehicles shall be fitted with front, side and rear retro-reflector according to I SO 6742-2:2015. The rear reflector shall be red in colour. The front reflector shall be white (clear) in colour. All side reflectors shall be of the same colour, either white (clear) or yellow.	ak Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	ek Anbo
6.1.2	Front and rear lightning	Anbotek Anbotek	Anbotek 
Anbotek Anbotek	Vehicles of class 2 and 4 shall be fitted with active front and rear lights according to ISO 6742-1:2015 (see 0.12).  The manufacturer shall indicate in the user's manual how an active front and rear light can be	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbo
e o	fitted to the vehicles of class 1 and 3. The controls for lighting shall be marked in accordance with Annex E	Anbotek Anbotek An	Anbolek Anbolek
6.2	Audible warning to alert persons	And Anbolek	Anburs
	An audible device shall be provided to allow a warning to be given to persons in the vicinity of the vehicle.	Anbotek Anbotek	W Kupo



- 0,5	Man At Male Male	10/4 1/40,	10%
lause	Requirement – Test	Result - Remark	Verdict
Aupo	stek anbore And	Potek Pupo, W.	400
otek Antotek	The audible warning device shall be controlled by a command from a device on the handlebar. On a vehicle without a handlebar, a warning device which can be carried by the user of a vehicle (remote control) shall be provided with the	Anbotek Anbotek	Anbotek Anbotek
	vehicle. The vehicle shall only be able to start if the remote control is connected either physically and/or via wireless.	ek Anbotek Anbote	Nek Pup.
	The control for the audible warning shall be marked in accordance with Annex F The device shall comply with 1 SO 14878:2015	Potek Vipotek	potek
nboten I	Class 1 1. A remote control shall comply with 17.1.	Vupotek Vupotek	Anbotel
7 Anhotek	System failure and malfunction warning devices	ek abotek Anbote	Anb
7.1	General	tek abotek Anb	c10 b
	The warning symbols audible signal are given in Annex F. Audible warning devices provided with the vehicle shall be unambiguous and easily perceived. The operator shall be able to check the operation of the audible warning devices at all times.	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
	If the vehicle is equipped with a remote control for any audible warning device required by this standard, the vehicle shall only be able to start if the remote control is connected either physically and/or via wireless.	ootek Anbotek Anbotek Anbotek	upotek Inpotek
7.2	Audible vibrating signalling	Anboten Anbo	Anborel
Anbotek	Audible devices required by this standard shall comply with ISO 14878:2015 Class 11.	ak Anbotek Anbotel	Panbr
7.3	Loss of connection to the warning system	Polek Vupoles Vup.	notek -
ibotek And	Loss of connection to the warning system shall be relayed by a warning signal on the vehicle or on the remote control.  In a driving condition the loss of connection to the	Anbotek Anbotek	Anbotak Anbotak
	warning device shall result in a speed reduction to 6 km/h for a Class 4 vehicle; the speed reduction shall happen in a safe manner without creating additional hazards and with corresponding audio	k Anbotek Anbotek	tak Anbo
	notification and tilt back of decks on balancing vehicles.	Pupotek Vupotek V	abotek Abotek
Boton M	Hot surfaces	Anbotek Anbor	Anborek
8.1	Requirements	Anbores Anb	-700



Anbotek	EN 17128	Aupotek Aupotek	r roo
Clause	Requirement – Test	Result - Remark	Verdict
otek Aupot	Aug Stelk Pupolek Pupo, W.	Potek Puporey Bup,	- 40.
nbotek Anh	systems, which are not in continuous contact with the user shall be protected to prevent inadvertent contact.  The seat, handgrips, handgrip levers, footrests	Anbotek Anbotek	Anbotek Anbotek
Anbotek	and decks are parts that are considered in continuous contact with the user. In no circumstance during the test of 18.2 shall their	Anbotek Anbotek	
tek Anbote	temperature exceed 43 °C.	otek Anbotek Anbr	
hotek Ant	A durable visible warning shall be fixed as close as possible to the brake if the temperature of the brake system could be above 60°C.	Anbotek Anbotek	Aupotek P
Ambotek Ambotek	The instructions manual shall contain a notice warning of the possible danger of burns if the brakes are touched after a prolonged or severe	ek Anbotek Anbotek	
tek Anbore	Outer surface temperature of cables and connections that can be reached by the user shall	Dotek Anbotek Anbo	
ipo, W.	not exceed 57°C while in use on performance test rig.	Anbote, And	Anborok
18.2	Test method	Anbotek Anbotek	Anbore.
19 Manbotek	Product information and marking	ok Anbotek Anbotek	- Aupo.
19.1	General	notek Anbotek Anbo	rek An
Aupotek Aup	The following product information should accompany each product. All text shall be printed in the official language or at least one of the official languages of the country of sale. If	Anbotek Anbotek	Anbotek Anbotek
Anbotek Anbotek	other languages are included, they shall be easy to distinguish, e.g. by separate presentation. All text shall be clearly legible. Sentences shall be	ak Anbotek Anbotek	
ok Aupo,	short and of simple construction. The words used shall be uncomplicated and in everyday	potek Anboros Ann	
Anbotek An	use. Information and warnings on the vehicle should preferably be provided in the form of readily understandable symbols or pictograms when available.	Anbotek Anbotek	
19.2	Marking	k abotek Anbotek	Pupote
19.2.1	General	Otek Anbotek Ansat	orek Anb
Aupotek Vur	The vehicle shall be legibly, visibly and permanently marked with at least the following -the business name and full address of the manufacturer or, where applicable, his authorized representative, importer or	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
k Aupor	organization responsible for its sale: - designation of the vehicle;	k Anbotes Anbote	dna Vi



Anbo.	EN 17128	k Anbore Ans Lotel	Anboth.
Clause	Requirement – Test	Result - Remark	Verdict
oten Anbe	atek Anbore And	Potek Wipo, Wi	Non
nbotek Anbotek Anbotek	-the mandatory marking; -reference to this document. ie. EN 17128:2020 -designation of series or class with maximum speed, kick scooter, class 2, 25km/h; -serial or identification number; It is	Anbotek Anbotek	
tek Anbotek	recommended that the identification number is in accordance with ISO 3779.  -year of construction, that is the year in which the	lek Anbotek Anbore	
Anbotek Anbotek	manufacturing process is completednominal power expressed in watts (W): -mass of the most usual configuration, in kilograms (kg): - maximum permissible payload, user including luggage	Anbotek Anbotek  Anbotek Anbotek	
19.2.2	Durability of marking of the frame or chassis	ek anbotek Anbote	Anbo
13.2.2	Anti-	botek Anbotek Anbo	Pun Pun
Anbotek Anbotek Anbotek	Rub the marking by hand for 15 s with a piece of cloth soaked in water and again for 15 s with a piece of cloth soaked in petroleum spirit. After the test the marking shall remain easily legible. It shall not be easy to remove any label nor shall any label show any sign of curling. After rubbing the text shall still be clearly legible	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek
19.2.3	Battery	tek abotek Anbo	Ans
Aupotek Aupo	Information concerning the battery shall comply with existing corresponding standards. Additionally, the following information shall appear on the battery: -the output voltage; -the charging voltage;	Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek  Anbotek
ek Anborek	-the power; -warning on the risks,	otek Vupotek Vupo,	
19.2.4	Tyres	anbotek Anbotek Ar	orek L
Anbotek Ar	The maximum pressure for inflatable tyres (if present) shall be marked on the tyre or in the instructions for use.19.3 Purchase information	Anbotek Anbotek	Ambotek Ambotek
19.3.1	General	k Aupote kup	Anbo
Sotek Anbo	Information at point of sale could be given on the packaging, on an information sheet in the store or on internet.	Anbotek Anbotek An	orek P Ar Anbotek
19.3.2	Information at point of sale	Anbotek Anbotek	Vupo.
k Anbotek	The following information shall be given: -Only use the product in accordance with local regulations:	Anbotek Anbotek	P Anbot



Clause	Requirement – Test	Result - Remark	Verdict
realize a	Anbo. A. Morek Anbote. Anb	rek spotek W	you con
-/L	- For which age the vehicle is designed	hipo, Viek	anbotek
	- Protective helmet is strongly recommended .	abotek Anbo	Note:
	All product information as required in this standard	All bolek	Anbo.
	shall be provided in the official language(s) of the	anbore And	10°4
	country of sale.	atek anbore	Pur
	Warning sentences shall be written in letters	Anbo	101
	whose upper case shall be at least 2 .5 mm in	lek abotek Anbo	
	height. The word "WARNING" shall be written in	All	10 tek
	upper case. The word "WARNING" can be given at	notek Anbore Ar	100
	the top of a list of warnings:	No colek	pupore
	"WARNING! Never use the product close to a	anboten Anbo	10% ok
	water source"	A. sek aboten	Ambo
	"WARNING! Stop using the product when	Anbo, Air	nbott
	damaged"	polek Aupor	br.
	The information needed to control machinery shall	And k not	el ant
	be provided in a form that is unambiguous and	lek Anboles Ans	-14-
	easily understood. It shall not be excessive to the	36k 20	pore
	extent of overloading the operator.	potek Anbo. A.	401
	Visual display units or any other interactive means	Notek hotek	Aupo.
	of communication between the operator and the	Ambore Am	Polok
	machine shall be easily understood and easy to	otek anbore	Anz
0000	use	Anbo Jak	NOO''
9.3.3	Information on the packaging	Anboten Anbo	V
Notok	In the case where the product is delivered in a	h. Hek Vilpay	P P
	package to the final following information	Anbo	dek
	shall appear on the packaging:	ek aboten Ani	
	-the business name and full address of the	po, bi.	poter
	manufacturer and , where applicable , his	Motek Anbore	PA.
	authorized representative ,	And k wotek	Aupola
	-the designation: PLEV	anbores And	-010
	-use warnings: "WARNING! Never use the product	were apolor	AUD
	out of the spaces authorized by the regulation "	Anbo. A.	do No
	-the number of this standard followed by the use	k hotek Anbo.	be.
	class,	AITS -K	19 el
	-for which age the vehicle is designed,	otek anbore An	
	-indication of the maximum weight of the user in	De stok	V. Dole.
	accordance with manufacturer recommendation	aboleh Anbo	Nor
	-indication of the maximum speed according with	W. Potek	Aupo.
	manufacturer declaration and within the range of	Anbore Ans	wo <sup>tol</sup>
	permitted speed corresponding with the declared	work Anbore	Vun
	class	And	Mana M
0.4 80000	Landaudia Military and Abatella Anaba' Anaba'	K VUPOLEL VUDO	36
9.4 The state of the least of t	Instructions for use	w stek and	0/10.
9.4.1	General	loter hupon h	-0164
3.4. I	General Mark	otek anboten	YUDO.
- e/V	Instructions concerning safe use of the vehicle	YUNO. N. W.	Aupoles P
	shall be provided with the vehicle in the form of	aboten Anbo	- tek
	instruction sheet, instruction manual, leaflet or	by spotek	Anbo.
	other similar physical support.	Ambore Am	6 200
	These instructions shall in include at least the	otek anbote	Ann
	following and shall be headed as follows:	700	100



Clause	Requirement – Test	Result - Remark	Verdict
Anbolt A	Aug Polek Vinole Vun	otek supotek prik	-V-
nek ant	otek Anborek Anborek	upotek upotek	upoisi
Nos	"IMPORTANT! Read carefully and keep for future	Vipo. W. Wolek	AUPOFOL
	reference"	Anbores Anto	10-1
	-The intended use of the vehicle.	ntek anbote	PULD
	-The name or trade mark of the manufacturer,	Anbo	100
	importer or organization responsible for its sale.	ek shotek Anbo.	br.
	-Means to identify the product.	All No.	Otok
	-The description of the propulsion system	Hotek Anbor An	101
	technology and its detailed method of operation;	ok holek	upor
	-Instructions for initial assembly, folding and	Anboise Ans	2018K
	erection, when applicable	ntek anbore	Amb
	-Explanation for light indicators.	Anbo	nodn
	-Instructions covering all functions of the vehicle , specially driving power assistance start mode	Thotel Anbo	100
	-Instructions for operating parking and/or braking	by toke	Anl
	device(s).	ek Vupos Vis	40.
	-An instruction that the parking device, if	ak hotek Anb	O.
	available , shall be engaged when vehicle is not on	pole. Wur	notek
	use.	ntek anbore	No.
You	hotek Anbo, Air tek obotek	Anbo	anbore
Upo,	-For vehicles fitted with load carrying accessory	aboles. Vue	
	(ies), details of the maximum permissible load.	Ar. Fek apolek	Anbo
	-A statement that any load attached to the	Anbo, Air	0/0
	handlebar will affect the stability of the vehicle.	ok sporek Aupo.	p.c.
	-Instructions for routine inspection , maintenance ,	And all the	lek.
	cleaning and/or washing.	otek anbore Ans	No.
	-A statement that the vehicle shall be used only for	y workey b	Npose .
	one personA statement that accessories and any additional	anbores Anb	-010K
	items which are not approved by the manufacturer	A. stek anboses	And
	shall not be used.	Anbo. A. A. Stek	, abote
	-Instruction concerning safe use of the vehicle	botek Anbo.	bre
	together with an indication of:	Arra cok	Aup
	1) the maximum weight of the user in kg,	ak anbore An	40.
	2) the maximum and if relevant minimum height of	k notek anbo	
	the	Potes And	1910-
	3) the maximum and/or minimum age of the user	atek anboter A	Con Tr
	as appropriate.	Anbo	anbore
	Indication the maximum continuous rated power of	abotek Anbo	250
	the electric motor according with manufacturer	by spotek	Aupo
	declaration	Aupor Arr	0/2
	-The mandatory marking.	k hotek Anbore	Die
by,	The way should also be the Bush of the Line in	Anu No	18 P
	-The user should check the limits of use in	otek anbotes Anb	P
	accordance with the local regulations areas, on- road).	a stok	pole
	-Description of the correct methods of use	abotek Anbo	Yele
	including braking techniques and warning on the	Ar botek	Vupo
	extension of braking distances during wet weather.	Anbor An	- botel
	-Description of intended surfaces	wotek Anbors	Die
	-The use of protective equipment such as:	And the botek	anbo
	hand/wrist , knee , head and elbow protections.	K anbores Ano	N.
	-The necessary preparations for using the	In.	D.



Anbo	EN 17128	K Anbors And Sotel	k anbo
Clause	Requirement – Test	Result - Remark	Verdict
St. Vupo.	atek anbore And	Potek Vupo, Vu	You
	product, for example: the notification that it is necessary to check that the steering system is correctly adjusted, that all connection elements (such as a folding system) are correctly tightened and not broken, and that the brakes and wheels	Anbotek Anbotek	
	are in good condition.	ak botek Anbotel	
otek Anbote	-Obligation to always wear shoesOthers recommendations such as: special precautions for use at dark; not to touch the brake discThe method for adjusting the suspensions if the	botek Anbotek Anbotek	hpotek Vapotek
	product has anyThe maximum permissible mass of the userWarning aiming to draw the user's attention to any damages related to intensive use and to recommend periodic inspections of the frame, fork	ek Anbotek Anbotek	
	and suspension attachments (if any). The warning may be formulated as follows: "WARNING! As with any mechanical component,	botek Anbotek Anu	
	a vehicle is subject to high stresses and wear. The various material and components may react differently to wear or fatigue. If the expected service life for a component has been exceeded, it may break risking causing injuries to	Anbotek Anbotek Anbotek Anbotek	
	the user. Cracks, scratches and discoloration in the areas subject to high stresses indicate that the component has exceeded its service li fe and should	ootek Anbotek Anbo	
Inpotek b	be replaced ."	Anbotek Anbotek	Anborratek
	-Traffic in the city has many obstacles to cross such as curbs or steps. It is recommended to avoid obstacle jumps. It is important to anticipate and adapt your trajectory and speed to those of a	k Anbotek Anbotek	ek Anbo
	pedestrian before crossing these obstacles. It is also recommended to get out of the vehicle when	otek Anbotek Anbo	
	these obstacles become dangerous due to their shape, height or slippage.  -An instruction to keep the printed instructions for	Anbotek Anbotek	
	further reference and to be read carefully before useWARNING Keep plastic covering away from	Anbotek Anbotek	
	children to avoid suffocation For inflatable tyres the maximum pressure shall be marked on the tyre or in the instructions for use.	otek Anbotek Anbot	
potek Anbu	Additionally, the following recommendations shall be given: -Take the time to learn the basics of the practice to	Ambotek Anbotek	Anbotek Anbotek
	avoid any serious accident that can take place in the first months; -Get closer to your seller so he can refer you to an appropriate training organization.	Anbotek Anbotek	

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Clause	Requirement – Test	Result - Remark	Verdict
Sk Vupo.	atek anbores Antes	hotek Anbors Am	400
Anbotek Anbotek	-Avoid high traffic areas or overcrowded areasIn any case, anticipate your trajectory and your speed while respecting the code of the road, the code of the sidewalk and the most vulnerableNotify your presence when approaching a	Anbotek Anbotek  Anbotek  Anbotek	Anbotek Anbotek
	pedestrian or cyclist when you are not seen or heardCross the protected passages while walkingIn all cases , take care of yourself and others.	lek Anbotek Anbote	Jek Pup
	-Do not divert the use of the vehicleThis vehicle is not intended for acrobatic useCaution, the brake may become hot in use Do not touch after use.	Anbotek Anbotek	hpotek Anbotek
	-Regularly check the tightening of the various bolted elements , in particular the wheel axles , the folding system , the steering system and the brake	ek Anbotek Anbotek	Anbo Anbo
	shaftEliminate any sharp edges caused by useDo not modify or transform the vehicle, including the steering tube and sleeve, stem, folding	botek Anbotek Anb	ibotek botek
Anbotek A	mechanism and rear brake.	Aupotek Aupoter	And
	Any other relevant information may be added, at the manufacturer's discretion. Any other valuable information specified by the manufacturer.	ek Anbotek Anbotek	M'P Anbo
19.4.2	Noise emission	potek Aupotek V	Dolog
19.4.2.1	General	Am Anbotek	Aupor - otek
Anbotek Anbotek	In case of doubt, a-weighted sound pressure levels shall be measured to a maximum 70 dB according to EN ISO 3744:2010, if necessary	ak Anbotek Anbotek	Anbo
19.4.2.2	Requirements	Sofek Anboros Anbo	potek
upotek V	The following information shall be inserted in the instructions for use:the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A); where this level does not exceed 70 dB(A), this fact shall	Anbotek Anbotek Anbotek Anbotek	Anbor P Anborok
	be indicated,the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa	otek Anbotek Anbot	orek Ar
	the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A).	Anbotek Anbotek Anbotek	Anbotek Anbotek
9.4.3	Charging	Aupotek Vupotek	Anbol

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EN 17128			
Clause	Requirement – Test	Result - Remark	Verdict
ek Aupo	atek anboise Ana	hotek Anbors Am	Yo.
Anbotek Anbotek	battery charging, in particular:recommendations on charging the battery and use of the charger;procedure for charging the battery;environmental conditions (e.g. outdoor or indoor	Anbotek Anbotek	Anbotek Anbotek
	charging);requirement to power-off the vehicle during charging, or into a certain non-operational mode;	otek Anbotek Anbote	Rek Ant
rek Vupo,	appropriate warnings.	Anbotek Anbotek Anb	nbotek
19.5	Instructions on servicing and maintenance	Anbore And abotek	Anborak
Anbotek Anbotek	It shall be clearly explained that regular maintenance of the vehicle is a factor of safety.  These explanations include the following points:	Anbotek Anbotek	Angoles Anto
	list regarding the maintenance that can be performed by the user himself;cleaning recommendations;	otek Anbotek Anbo	rek .
	description regarding the maintenance and replacement of wear parts;a note specifying that the self-tightening nuts as	Anbotek Anbotek	anbolek
	well as the other self-tightening fastenings may lose their efficiency and that they may need to be	Anborek Anborek	Anbote
	retightened;lubrication recommendations - locations and frequency of lubrication, recommended lubricant;	tek Anbotek Anbotek	lek And
	the method for adjusting the brakes and recommendations concerning the replacement of	potek Anboten Anb	potek
	friction components;method for adjusting or setting all of the components that would need to be adjusted	Anbotek Anbotek	Anbotek
	regularly or after replacement of a part;recommendation not make any modifications that	Ambotek Ambotek	Anbo
	are not noted in the manufacturer's instructions;information on where the user can find a qualified maintenance shop for items he cannot do by	tek Anbotek Anbo	10 K
	himself	pose Ann aposek Ar	potek















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-End of Report-