

Test Report

Number: SZHH01259476S1

Applicant: SSD TECH CO., LTD
ROOM 904, 9F, R&D BUILDING, SHENZHEN
TSINGHUA HI-TECH PARK, NANSHAN
DISTRICT, SHENZHEN, CHINA.

Date: Jul 30, 2018

Attn: TANBING

This is to supersede Report No.
SZHH01259476 dated Jul 10,
2018

Sample Description:

Eight (8) pieces of submitted sample said to be:

Item Name : **Smart4U Helmet.**
Item No. : **SH50L, SH50.**
Size : **57-61cm.**
Material for Helmet : **Shell**
Liner.
Date Sample Received : **May 28, 2018.**



To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.


Michael, Zhang Jian
Title: Manager
CNAS Approved Signatory



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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

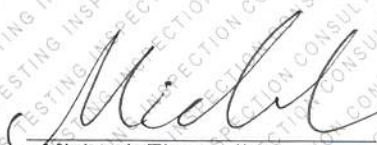
Tested sample
Submitted helmets

Standard
EN 1078:2012+A1:2012 Standard Specification
for Helmets Worn by Users of Pedal Cycles,
Skateboards and Roller Skates

Result
Pass

ORIGINAL

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For Intertek Testing Services
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Michael, Zhang Jian
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1 Standard Specification for Helmets Worn by Users of Pedal Cycles, Skateboards and Roller Skates

As per EN 1078:2012+A1:2012: standard specification for helmets worn by uses of pedal cycles, skateboards and roller skates.

Number of samples tested: Eight (8) sets.

Helmets size: 57-61cm

Test headform: J/M

Clause	Test Items	Result
4.1	Materials For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries. Materials shall not be used which are known to cause skin disorders.	
4.2	Construction The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident. The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use. NOTE Helmets should: - have low weight; - be ventilating; - be easy to put on and take off; - be usable with spectacles; - not significantly interfere with the ability of the user to hear traffic noise.	P
4.3	Field of vision When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1 in EN 1078:2012+A1:2012): -horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides; -upwards: min. 25° from the reference plane; -downwards: min. 45° from the basic plane.	P (Horizontally: >105° Upwards: >25° Downwards >45°)



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Clause	Test Items	Result
4.4	S hock absorbing capacity The helmet shall give protection to the forehead, rear, sides, temples and crown of the head. When tested in accordance with 5.3 and 5.4 the peak acceleration shall not, for each impact, exceed 250 g for the velocity of 5,42 (+0.1, 0), m/s on the flat anvil, and 4,57 (+0.1, 0)m/s on the kerbstone anvil. NOTE These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.	P (See appendix)
4.5	Durability After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).	P (No damage & significant injury)
4.6	Retention system	
4.6.1	General Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.	P
4.6.2	Chin strap The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide (W). Chin straps may be fitted with means of enhancing comfort for the wearer.	P (W: 15.2 mm)
4.6.3	Fastening device Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.	P
4.6.4	Colour No part of the retention system shall be coloured green. NOTE It is recommended that the opening mechanism be marked with red or orange colour.	P (Brown)



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Clause	Test Items	Result
4.6.5	<p>Strength When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device. Damage to the retention system shall be accepted provided that the above requirements are met.</p> <p>NOTE In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.</p>	P (See appendix)
4.6.6	<p>Effectiveness When tested in accordance with 5.6 the helmet shall not come off the headform.</p>	P (Did not come off)
4.6.7	<p>Ease of release Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.</p>	P
5.2	<p>Inspection and determination of mass Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2.</p> <p>Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.</p>	P (See appendix)



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Clause	Test Items	Result
6	<p>Marking</p> <p>Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:</p> <p>a) number of this European Standard; b) name or trademark of the manufacturer; c) designation of the model; d) designation, which shall be one or more of the following: Helmet for pedal cyclists, skateboarders or roller skaters; e) size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit; f) weight of the helmet (the average mass in grams determined according to 5.2); g) year and quarter of manufacture; h) following text:</p> <p>"Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet."</p> <p>In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.</p>	P
	<p>If there is a consumer sales packaging, the information specified in a), b), d) and h) shall also be given on that package. The text shall be of minimum font size 12.</p>	P



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Clause	Test Items	Result
7	<p>Information supplied by the manufacturer</p> <p>With every helmet, clear information in the language of the country of sale shall be given as follows:</p> <p>a) that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;</p> <p>b) that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;</p> <p>c) how the helmet should be positioned on the head to ensure the intended protection is provided (e.g. hat it should be placed so as to protect the forehead and not be pushed too far over the back of the head);</p> <p>d) that a helmet cannot always protect against injury;</p> <p>e) that a helmet subjected to a severe impact should be discarded and destroyed;</p> <p>f) a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.</p>	P

Abbreviation : P = Pass

Appendix:

Section 5.2 – Inspection and determination of mass

Sample No.	Mass (g)
1	379.6
2	380.0
3	374.6
4	374.0
5	384.3
6	383.0
7	387.1
8	379.2
Average(rounded off to nearest 10g)	381.4(380)



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Section 4.4—Shock absorbing capacity

Ambient temperature at time of test: 22.3 °C

Test headform: J

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
1	High	Kerbstone	Front	4.58	87.7	Pass
		Flat	Right	5.42	207.3	Pass
2	Low	Flat	Left	5.45	194.6	Pass
		Kerbstone	Rear	4.61	117.0	Pass
3	Artificial ageing	Kerbstone	Front	4.62	91.9	Pass
		Flat	Crown	5.44	179.9	Pass

Test headform: M

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
5	High	Kerbstone	Rear	4.58	112.9	Pass
		Flat	Left	5.43	179.7	Pass
6	Low	Flat	Crown	5.49	173.6	Pass
		Kerbstone	Left rear	4.59	86.3	Pass
7	Artificial ageing	Kerbstone	Rear	4.61	90.8	Pass
		Flat	Front	5.44	157.5	Pass

Section 4.6.5—Retention system strength

Test headform: J

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
2	10.1	8.3	Pass
3	15.5	4.1	Pass

Test headform: M

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
6	17.1	5.2	Pass
7	17.4	10.6	Pass



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Photos for reference:





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Bottom view	
Label	<div> <p>Product: Bling Helmet Model No.: SH50L Production Lot: A1 Size: 57-61cm EN 1078: 2012+A1:2012 Weight: 380g Helmet for Pedal Cyclists Date of manufacture: 2018/05 Made in China Manufacturer: SSD Tech Co., Ltd. Manufacturer address: Room 904, 9F, R&D Building, Shenzhen Tsinghua Hi-Tech Park, Nanshan District, Shenzhen, China</p> </div> <div> <p>Product: Bling Helmet Model No.: SH50 Production Lot: A1 Size: 57-61cm EN 1078: 2012+A1:2012 Weight: 380g Helmet for Pedal Cyclists Date of manufacture: 2018/05 Made in China Manufacturer: SSD Tech Co., Ltd. Manufacturer address: Room 904, 9F, R&D Building, Shenzhen Tsinghua Hi-Tech Park, Nanshan District, Shenzhen, China</p> </div>

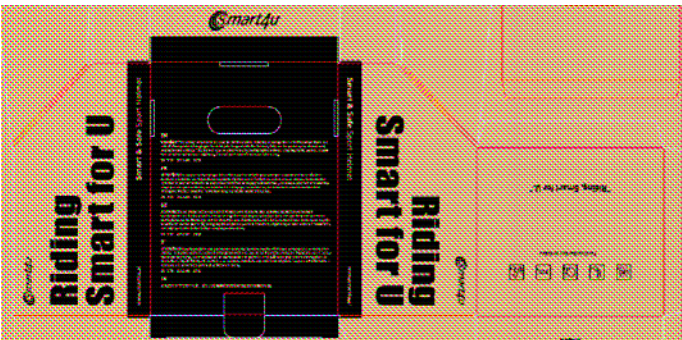


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	<p>WARNING! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet. Do not clean with solvents, bleaches and strong detergents. They can damage helmet, sometimes invisibly. Use mild soap and water only. Designation, which shall be one or more of the following: Helmet for pedal cyclists, skateboarders or roller skaters; Read manual.</p> <p>US telephone: +1 253 200 6633 US importer: Livall IoT Technology, Inc. US address: 15105 Concord Circle, Suite 210 Morgan Hill, CA 95037</p> <p>WARNING! No helmet can prevent all head injuries. Even in very low speed accidents, serious injury or death can occur. For best protection, follow manual fitting instructions: Helmet must fit snugly. Wear chin strap comfortably tight against throat. Fasten buckle securely. Destroy and replace helmet after impact. Protection may not be adequate in future impacts. Damage can be invisible. Don't modify anything on this helmet. It could reduce the helmet's ability of protection. Complies with U.S. Consumer Product Safety Commission Safety Standard for Bicycle Helmets for Persons Age 5 and Older.</p>
Package	

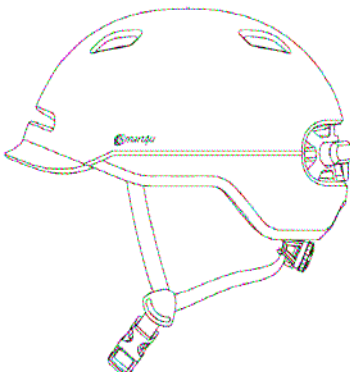



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<p>Instruction</p>	 <p>Smart4u</p> <p>SH50L Smart Cycling Helmet</p> <p>Quick Start Guide</p> <p>EN DE FR IT ES</p> <p>www.smart4u.ai</p>  <p>Smart4u</p> <p>SH50 Range Smart Cycling Helmet</p> <p>Quick Start Guide</p> <p>EN DE FR IT ES</p> <p>www.smart4u.ai</p> <p>That the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head.</p> <p>That the helmet should be adjusted to fit the user e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm.</p> <p>How the helmet should be position on the head to ensure the intended protection is provided (e.g. that it should be placed so as to protect the forehead and not be pushed too far over the back of the head.</p> <p>That a helmet cannot always protect against injury.</p> <p>That a helmet subjected to a severe impact should be discarded and destroyed.</p> <p>A statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer</p> <p style="text-align: right;">6</p>
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	<p>III. Wearing Instructions</p>  <p><i>Incorrect</i> <i>Incorrect</i> <i>Correct</i></p>  <p><i>Adjust the length of the chinstrap</i> <i>Leave a gap as thick as one finger</i> <i>Correctly position the helmet</i> <i>Check whether the buckle is properly fastened</i></p>
<p>Test line (Test Headform:J)</p>	



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<p>Test line (Test Headform:M)</p>	
<p>Impact sites #1</p>	



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Impact sites #2



End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.



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To: SSD TECH CO., LTD
Attention: TANBING

Date: Jul 30, 2018

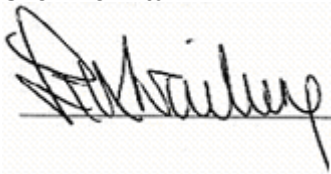
Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01259476 Dated Jul 10, 2018

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report, SZHH01259476S1.

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Ben N.L. Lin
General Manager

