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检测
TESTING
CNAS L0167

Test Report

No.: GZHL2406026757HM

Date: Jul 05, 2024

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HUI ZHOU CHINION SPORTS TECHNOLOGY CO., LTD
125 FUXING AVENUE, FUXING INDUSTRIAL ZONE, FUTIAN TOWN, BOLUO COUNTY, HUIZHOU CITY,
GUANGDONG PROVINCE

Sample Description : BICYCLE HELMET
Item No. : ZL-B068
Style No. : M(55-58cm) L(59-61cm)
Country of Origin : CHINA
Country of Destination : USA
Size : M 55cm-58cm, L 59cm-61cm

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

HPI (from basic plane) : 55cm-58cm: 45mm For J F2220
59cm-61cm: 49mm For M F2220
Tested Age grading : 5 and older
Sample Receiving Date : Jun 26, 2024
Test Performing Date : Jun 26, 2024 to Jul 05, 2024
Test Performed : ASTM F1952-22 plus ASTM F1446-20
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

William Cao
Authorized Signatory

Scan to see the report



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Test Conducted: Based on **ASTM F1952-22** Standard Specification for Helmets Used for Downhill Mountain Bicycle Racing.

Number of Tested Sample: 5 piece(s) / size

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
3	Labels and Warnings	
3.1	Shall meet the requirements of the Test Methods F1446	Pass
3.2	Shall have the words "For Downhill Mountain Bicycle Racing"	Pass
6	Retention System Test	
6.2	The ambient helmet shall be subjected to the positional stability (roll-off) test in accordance with Test Methods F1446 using a 4-kg drop mass from a height of 0.6 m.	Pass See annex 4
6.4	The retention system shall remain intact without elongating more than 30 mm.	Pass See annex 2
7	Impact Sites and Projections	
7.2	Projections—Any unfaired projection extending more than 7 mm from the helmet's outer surface shall break away or collapse when impacted with forces equivalent to those produced by applicable impact-attenuation tests described in Section 9.	Pass
7.2.1	There shall be no fixture on the helmet's inner surface projecting more than 2 mm into the helmet interior except occipital stabilizers and foam fit pads.	Pass
9	Impact Test	
9.8	The peak acceleration of any impact shall not exceed 300 g.	Pass See annex 1
10	Chin Bar Impact Test	
10.1	The chin bar rigidity test applies to helmets with a chin bar only.	Pass
10.2	If a chin bar is present, it shall be tested in accordance with the procedures in Test Methods F1446, Chin Bar Rigidity Test, with an impact velocity of 2.8 m/s 6 5 % (corresponding to a theoretical drop height of 0.4 m), using a fifth ambient sample that has not been subjected to any other impact testing. The maximum deflection of the chin bar shall not exceed 60 mm.	Pass

Test Conducted: Based on **ASTM F1446-20** Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
12.2	Configuration The helmet shall be constructed to reduce or minimize injury to that portion of the head that is within an area above the test line and to remain on the wearer's head during impact.	Pass
12.3	Materials Materials known to cause skin irritation or disease cannot be used in the helmet. Lining materials, if used, may be detachable for washing. If hydrocarbons, cleaning fluids, paints, transfers or other additions will affect the helmet adversely, a warning shall be provided.	Declaration submitted



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Clause	Test Method/Requirement	Result
12.4	Labeling Each helmet shall contain labels with at least the following information, using terms and symbols commonly known and visible to users. The label(s) should be likely to remain on the helmet and legible throughout the intended design life of the helmet.	Pass
12.4.1	The number of the standard specification which the manufacturer certifies that it meets, including the two-digit version year appended to the number.	Pass
12.4.2	Model designation.	Pass
12.4.3	Name of manufacturer.	Pass
12.4.4	Month and year of manufacture.	Pass
12.4.5	A label that warns the user that no helmet can protect against all possible impacts and that for maximum protection the helmet must be fitted and attached properly to the wearer's head in accordance with the manufacturer's fitting instructions.	Pass
12.4.6	A label that warns the user that the helmet may, after receiving an impact, be damaged to the point that it is no longer adequate to protect the head against further impacts, and that this damage may not be visible to the user. This label should also state that a helmet that has sustained an impact should be returned to the manufacturer for competent inspection or be destroyed and replaced.	Pass
12.4.7	A label that warns the user that the helmet can be damaged by contact with common substances (for example, certain solvents, cleaners, hair tonics, etc.) and that this damage may or may not be visible to the user. This label should also list any recommended cleaning agents or procedures, or both.	Pass
12.4.8	Any other warnings, cautions, or instructions specified in the individual standard specification.	Pass
12.4.9	Each helmet shall have accompanying fitting and positioning instructions including graphic representation of proper positioning.	Pass
12.5	Projections	
12.5.1	Interior Projections Any internal rigid projections that can contact the wearer's head during impact shall be protected by some means of cushioning or force spreading. Visually inspect a single helmet form the set form the presence of any interior projections. Verify that if projections are present they are protected	Pass
12.6	Vision	
12.6.1	Peripheral Vision The helmet to be tested shall be placed on a reference headform the same size as the test headform to be used. The helmet shall be centered laterally and seated firmly on the reference headform with the preload ballast on the helmet, then positioned according to the HPI. Ensure that the brow is parallel to the basic plane. Measure the peripheral vision on a single sample of each helmet set. The peripheral vision is measured horizontally to each side of the midsagittal plane through Point K. The vision shall be unobstructed through an angle on either side of the midsagittal plane from Point K as identified in the individual performance standards.	Pass See annex 3

Remark: 1. NA = Not applicable.
2. NT = Not tested as per client's request.
3. Clause 12.3 of ASTM F1446-20 is not within CNAS accreditation testing scope of the lab.



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Impact attenuation instrument system check:

Systems check	Trial drop	Drop Height (cm)	VEL. m/sec	Milliseconds at		
				Peak G	150 g	200 g
Pre-test	1	162.3	5.39	387.5	2.78	2.33
	2	162.0	5.42	393.1	2.79	2.34
	3	162.1	5.43	391.6	2.79	2.33
Pretest average		-	-	390.7	-	-
Post test	1	162.0	5.41	391.1	2.79	2.33
	2	162.0	5.41	391.6	2.79	2.33
	3	162.2	5.44	395.6	2.79	2.34
Post test average		-	-	392.7	-	-
Difference between pretest and post test averages				2.0g	Difference not to exceed 5%	

Model: ZL-B068

Size: 55-58 cm

Headform: J F2220

HPI (from basic plane): 45 mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22.0 °C

Condition	Sample Mass (g)	Anvil	Impact Loc.	Vel.-m/sec	Peak'G	Result
Ambient Condition No.1	709	Flat	Front	6.19	211.0	Pass
		Flat	Rear	6.22	256.8	Pass
		Hemispherical	Left	5.59	197.3	Pass
		Curbstone	Crown	5.54	183.1	Pass
High Temperature No.2	698	Flat	Crown	6.21	244.1	Pass
		Flat	Left	6.17	227.3	Pass
		Hemispherical	Front	5.60	150.0	Pass
		Curbstone	Rear	5.58	180.5	Pass
Low Temperature No.3	696	Flat	Front	6.19	194.8	Pass
		Flat	Rear	6.18	250.2	Pass
		Hemispherical	Crown	5.60	207.0	Pass
		Curbstone	Left	5.57	186.1	Pass
Water Immersion No.4	699	Flat	Crown	6.21	251.2	Pass
		Flat	Left	6.17	209.0	Pass
		Hemispherical	Rear	5.59	177.5	Pass
		Curbstone	Front	5.59	156.1	Pass



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Annex-2: Retention system strength test data

Ambient temperature at time of test: 22.0 °C

Condition	Elongation (mm)	Result
High Temperature No.2	18.3	Pass
Low Temperature No.3	19.6	Pass
Water Immersion No.4	19.2	Pass

Annex 3: Peripheral vision test results

Ambient temperature at time of test: 22.0 °C

Positioning Index: 45 mm Peripheral Vision: >105 degrees

Annex 4: Position stability test results

Ambient temperature at time of test: 22.0°C

Condition	Test description	Result
Ambient Condition No.1	Helmet remained on the test headform after testing	Pass

Model: ZL-B068

Size: 59-61 cm

Headform: M F2220

HPI (from basic plane): 49 mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22.0 °C

Condition	Sample Mass (g)	Anvil	Impact Loc.	Vel.-m/sec	Peak'G	Result
Ambient Condition No.1	692	Flat	Front	6.19	191.2	Pass
		Flat	Rear	6.19	222.7	Pass
		Hemispherical	Left	5.59	213.1	Pass
		Curbstone	Crown	5.60	171.9	Pass
High Temperature No.2	707	Flat	Crown	6.24	234.4	Pass
		Flat	Left	6.19	211.5	Pass
		Hemispherical	Front	5.57	177.5	Pass
		Curbstone	Rear	5.59	192.2	Pass
Low Temperature No.3	690	Flat	Front	6.18	204.9	Pass
		Flat	Rear	6.18	238.0	Pass
		Hemispherical	Crown	5.60	230.4	Pass
		Curbstone	Left	5.56	205.4	Pass
Water Immersion No.4	697	Flat	Crown	6.20	229.9	Pass
		Flat	Left	6.18	214.6	Pass
		Hemispherical	Rear	5.55	221.2	Pass
		Curbstone	Front	5.56	150.0	Pass



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Annex-2: Retention system strength test data

Ambient temperature at time of test: 22.0 °C

Condition	Elongation (mm)	Result
High Temperature No.2	21.4	Pass
Low Temperature No.3	23.5	Pass
Water Immersion No.4	19.8	Pass

Annex 3: Peripheral vision test results

Ambient temperature at time of test: 22.0 °C

Positioning Index: 49 mm Peripheral Vision: >105 degrees

Annex 4: Position stability test results

Ambient temperature at time of test: 22.0°C

Condition	Test description	Result
Ambient Condition No.1	Helmet remained on the test headform after testing	Pass

Sample Photos:

Front view



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Side view	
Back view	



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Top view	
Bottom view	



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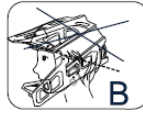
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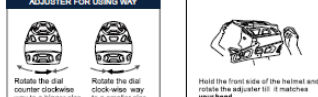
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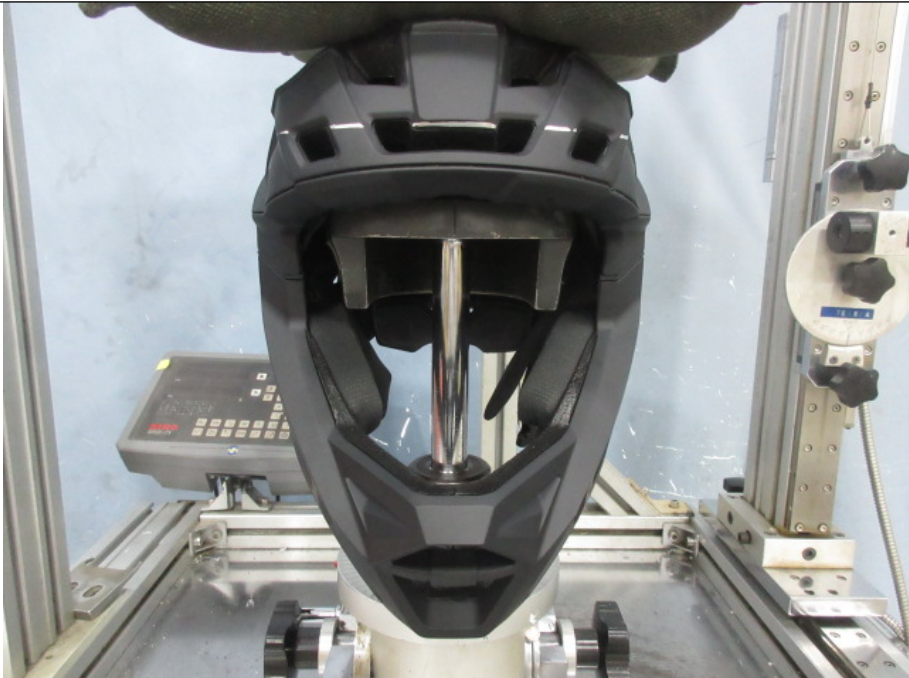
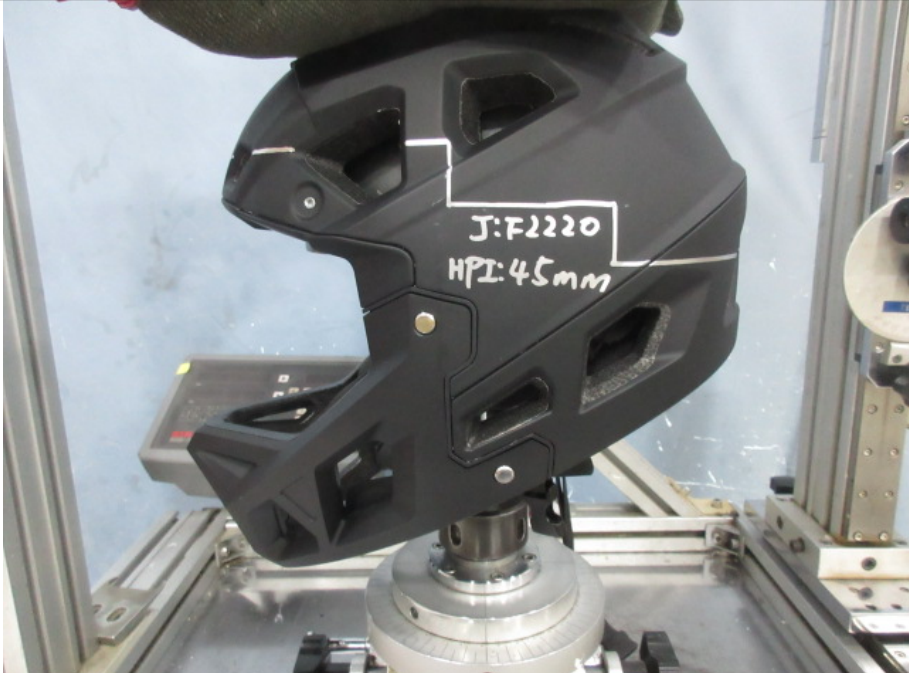
Label	WARNING! No helmet can prevent all head injuries. Even in very low speed accidents, serious injury or death can occur. For best protection, follow manual fitting instruction; Helmet must fit snugly. Wear chin strap comfortably tight against throat. Fasten buckle securely. Destroy and replace helmet 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. Do not clean with solvents, bleaches or strong detergents. They can damage helmet, sometimes invisibly. Use mild soap and water only. Read manual.↵ MADE IN CHINA <u>Manufactured Date: 2024.06.28</u>↵
Label	WARNING! No helmet can prevent all head injuries. Can't be used by children while climbing or doing other activities when there is a risk of strangulation/Hanging if the child gets trapped. Even in low speed accidents, serious injury or death can occur. Helmet should be adjusted to fit the user, 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. It should be placed so as to protect the forehead and not be pushed too far over the back of the head. Straps position do not cover the ears. Buckle position should away from the jawbone. Strap, buckle and chin strap position should be comfortable and firm. 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.↵ meet the requirements of the Test Methods F1446.↵ For Downhill Mountain Bicycle Racing.↵ ASTM F1952-22↵ ↵
Label	Distributed by:↵ Chinion Sports Technology Co., LTD↵ Telephone: 1-713-529-4743↵ MADE IN CHINA↵ 11960 Westline Industrial Drive Suite 283↵ Complies with U.S. CPSC Safety Standard for Bicycle Helmets for Persons Age 5 and Older↵
Label	Ref/Lot#: 2024.06↵ Location: <u>HuiZhou,China</u>↵ Production: <u>June. 4, 2024</u>↵ Manufactured by:↵ Hui Zhou Chinion Sports Technology Co., LTD↵ 125 Fuxing Avenue, Fuxing Industrial Zone, Futian Town, Boluo County, Huizhou City, Guangdong Province↵ Phone: 86-15107552100↵
Label	MODEL: ZL-B068↵ SIZE: M(55-58CM)↵ MADE IN CHINA <u>ASTM F1952-22</u>↵ WEIGHT: 700g↵
Label	MODEL: ZL-B068↵ SIZE: L(59-61CM)↵ MADE IN CHINA <u>ASTM F1952-22</u>↵ WEIGHT: 700g↵



Label		
Label		
Instruction	INSTRUCTIONS	◆ HELMET'S INSTRUCTION MANUAL ◆ • Functions A) Safety The helmet can prevent your head from being accidental injured. When you wear this helmet please carefully read the manual instruction. However, not all kinds of accidents can be prevented by the helmets. Please obey the traffic regulation and the safety tips of cycling so that your cycling can be safe. B) Comfort Vents designed on the helmets will ensure the heat will be taken away fast. You will still feel comfortable after a long time wearing with the vents & soft inner pad. • How to wear it A) Position Ensure that the helmet brings your head slight pressure and is positioned horizontally on the head which make it higher than your eyebrow and ear. Safety problems may happen if the helmet is not wore correctly. ☐ Correct ☒ Wrong  



Instruction	Make sure all the parts are in correct position.(Chart A, B) B)Adjustment system ① Side strap buckles The side strap buckles should be on the proper and most comfortable position, the buckles should be away from the mandible. (Chart C)   ② Chin strap buckle The proper way of releasing the chin-buckle is as shown below:  C)Size system Way of functioning the adjuster is as shown in the picture below:  •REMARK 1. Since other solvents may damage the EPS, the helmet shell should be cleaned with lukewarm water. 2. The helmet must not be exposed to temperatures over 66 centigrade. 3. Use the auto-dialer to adjust the size to the most comfortable one, which can perform the full protection function of the helmet.
Declaration submitted	Declaration of Product Material We Hui Zhou Chinion Sports Technology Co., LTD , hereby declare that the products, item# <u>ZL-B068</u> , product name: <u>Bicycle helmet</u> do not include any materials known to cause skin irritation or disease. <u>Company:HuiZhouChinionSportsTechnology Co., LTD_</u> <u>Authorized Company Representative Name: PengBen</u> <u>Signature:</u> _____ 

Front test line for (J) F2220 head form	
Side test line for (J) F2220 head form	



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Rear test line for (J) F2220 head form	
Front test line for (M) F2220 head form	



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Side test line for (M)
F2220 head form



Rear test line for (M)
F2220 head form



Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report



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