

ZHUHAI SAFETY HELMETS MANUFACTURE CO., LTD
QINSHI INDUSTRIAL PARK, SANZAO, ZHUHAI, GUANGDONG, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : BICYCLE HELMET
Style / Item No. : MODEL37(L)
Size : 59-61CM
Buyer : TBA
Manufacturer & Supplier : ZHUHAI SAFETY HELMET MANUFACTURE CO., LTD
Country of Origin : CHINA
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Aug 21, 2008
Test Performing Date : Aug 21, 2008 to Aug 29, 2008
Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Co., Ltd.

Sunny Sun
Engineer

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Test Conducted: Based on CPSC 16 CFR Part 1203 Safety Standard for Bicycle Helmets

Clause	Requirement	Result/Note
1203.5	Construction requirements – projections.	—
	Any unfaired projection extending more than 7 mm (0.28 in.) from the helmet's outer surface shall break away or collapse when impacted with forces equivalent to those produced by the applicable impact-attenuation tests in § 1203.17 of this standard. There shall be no fixture on the helmet's inner surface projecting more than 2 mm into the helmet interior.	Pass
1203.6	Labeling and instructions	—
	a) Labeling. Each helmet shall be marked with durable labeling so that the following information is legible and easily visible to the user: (1) Model designation. (2) A warning to the user that no helmet can protect against all possible impacts and that serious injury or death could occur. (3) A warning on both the helmet and the packaging 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. (4) A warning to 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 shall also state that a helmet that has sustained an impact should be returned to the manufacturer for inspection, or be destroyed and replaced. (5) A warning to the user that the helmet can be damaged by contact with common substances (for example, certain solvents [ammonia], cleaners [bleach], etc.), and that this damage may not be visible to the user. This label shall state in generic terms some recommended cleaning agents and procedures (for example, wipe with mild soap and water), list the most common substances that damage the helmet, warn against contacting the helmet with these substances, and refer users to the instruction manual for more specific care and cleaning information. (6) Signal word. The labels required by paragraphs (a) (2) through (5) of this section shall include the signal word "WARNING" at the beginning of each statement, unless two or more of the statements appear together on the same label. In that case, the signal word need only appear once, at the beginning of the warnings. The signal word "WARNING" shall be in all capital letters, bold print, and a type size equal to or greater than the other text on the label.	Pass
	(b) Instructions. Each helmet shall have fitting and positioning instructions, including a graphic representation of proper positioning	Pass
1203.12	Test requirements.	—
	(a) Peripheral vision. All bicycle helmets shall allow unobstructed vision through a minimum of 105° to the left and right sides of the mid-sagittal plane when measured in accordance with § 1203.14 of this standard.	Pass
	(b) Positional stability. No bicycle helmet shall come off of the test headform when tested in accordance with § 1203.15 of this standard.	Pass

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Clause	Requirement	Result/Note
	<p>(c) Dynamic strength of retention system. All bicycle helmets shall have a retention system that will remain intact without elongating more than 30 mm (1.2 in.) when tested in accordance with § 1203.16 of this standard.</p>	Pass
	<p>(d) Impact attenuation criteria. (1) General. A helmet fails the impact attenuation performance test of this standard if a failure under paragraph (d)(2) of this section can be induced under any combination of impact site, anvil type, anvil impact order, or conditioning environment permissible under the standard, either with or without any attachments, or combinations of attachments, that are provided with the helmet. Thus, the Commission will test for a "worst case" combination of test parameters. What constitutes a worst case may vary, depending on the particular helmet involved. (2) Peak acceleration. The peak acceleration of any impact shall not exceed 300 g when the helmet is tested in accordance with § 1203.17 of this standard.</p>	Pass

Marked: 1. N/A means not applicable.
2. N/T means not tested as per client's request.

Model: 37 Size: 59-61CM Test headform: M ISO HPI: 27 mm

Annex 1: Peripheral vision test

Test Specification: CPSC 1203.14

Ambient temperature at time of test: 23 °C

Condition	Horizontal vision	Assessment
Ambient No. 1	>105°	PASS

Annex 2: Positional stability test

Test Specification: CPSC 1203.15

Ambient temperature at time of test: 23 °C

Condition	Come off or not		Assessment
Ambient No. 5	From rear	Helmet didn't come off the headform	PASS
	From front	Helmet didn't come off the headform	PASS

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Annex 3: Retention system strength

Test Specification: CPSC 1203.16

Ambient temperature at time of test: 23 °C

Condition	Max. elongation	Assessment
Ambient No.1	27.3MM	PASS
Hot No.2	29.2MM	PASS
Cold No. 3	27.7MM	PASS
Wet No.4	26.8MM	PASS

Annex 4: Impact energy attenuation test

Test Specification: CPSC 1203.17

Ambient temperature at time of test: 23 °C

CONDITION	TEST ANVIL	TEST SITE	PEAK'G	ASSESSMENT
Ambient No.1	Flat	FRONT	156.3	PASS
	Flat	LEFT	279.6	PASS
	Hemispherical	RIGHT FRONT	124.3	PASS
	Hemispherical	CROWN	81.6	PASS
HOT No.2	Flat	FRONT	145.6	PASS
	Flat	LEFT	277.3	PASS
	Hemispherical	RIGHT FRONT	128.9	PASS
	Hemispherical	CROWN	93.6	PASS
Cold No.3	Flat	RIGHT REAR	248.1	PASS
	Flat	LEFT FRONT	257.4	PASS
	Hemispherical	RIGHT FRONT	102.5	PASS
	Hemispherical	LEFT REAR	254.1	PASS
Wet No.4	Flat	RIGHT REAR	256.0	PASS
	Flat	LEFT FRONT	259.7	PASS
	Hemispherical	RIGHT FRONT	87.2	PASS
	Hemispherical	LEFT REAR	268.5	PASS
Ambient No. 5	Curbstone	LEFT	141.0	PASS
Hot No. 6	Curbstone	LEFT	92.7	PASS
Cold No. 7	Curbstone	RIGHT FRONT	101.6	PASS
Wet No. 8	Curbstone	LEFT REAR	114.1	PASS

Remark: Photo appendix is included

End of Report

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