

DONGGUAN CIGNA SPORTS CO. LTD
#7 BUILDING, SHUIBIAN INDUSTRIAL PARK, HENGLI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Description : BICYCLE HELMET
Model of sample : TT-32
Size : 48cm-52cm,54cm-57cm
HPI (from basic plane) : 48cm-52cm:43mm For EN960 495
54cm-57cm:53mm For EN960 575
Manufacturer : DONGGUAN CIGNA SPORTS CO. LTD
Test Performed : BS EN 1078:2012+A1:2012
Sample Receiving Date : Sep 13, 2018
Test Performing Date : Sep 13, 2018 to Sep 27, 2018
Test Result(s) :

Test Requested	Result
BS EN 1078:2012+A1:2012 (Exclude clause 4.1)	Pass

Signed for and on behalf of
Guangzhou Branch
SGS-CSTC Ltd.



Arthur Mak
Approved Signatory



Test Conducted: Based on **BS EN 1078:2012+A1:2012**

Helmets for pedal cyclists and for users of skateboards and roller skates

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4.1	<p>Materials</p> <p>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.</p> <p>Materials shall not be used which are known to cause skin disorders.</p>	NT
4.2	<p>Construction</p> <p>The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident.</p> <p>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.</p> <p><i>NOTE: Helmets should:</i> <i>have low weight;</i> <i>be ventilating;</i> <i>be easy to put on and take off;</i> <i>be usable with spectacles;</i> <i>not significantly interfere with the ability of the user to hear traffic noise.</i></p>	Pass See annex 1
4.3	<p>Field of vision</p> <p>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):</p> <ul style="list-style-type: none"> - 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. 	Pass See annex 4
4.4	<p>Shock absorbing capacity</p> <p>The helmet shall give protection to the forehead, rear, sides, temples and crown of the head.</p> <p>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.</p> <p><i>NOTE: These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.</i></p>	Pass See annex 2
4.5	<p>Durability</p> <p>After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).</p>	Pass
4.6	<p>Retention system</p>	
4.6.1	<p>General</p> <p>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>	Pass



4.6.2	<p>Chin strap The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide. Chin straps may be fitted with means of enhancing comfort for the wearer.</p>	Pass
4.6.3	<p>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>	Pass
4.6.4	<p>Color No part of the retention system shall be colored green. <i>NOTE: It is recommended that the opening mechanism be marked with red or orange color.</i></p>	Pass
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. <i>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.</i></p>	Pass See annex 3
4.6.6	<p>Effectiveness When tested in accordance with 5.6 the helmet shall not come off the headform.</p>	Pass
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>	Pass
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. 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>	Pass See annex 1
6	<p>Marking 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>	Pass
	a. the number of this European standard;	Pass
	b. the name or trademark of the manufacturer;	Pass
	c. the designation of the model;	Pass
	d. the designation, which shall be one or more of the following:-helmet for pedal cyclists, skateboarders or roller skaters;	Pass
	e. the size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit;	Pass
	f. the weight of the helmet (the average mass in g determined according to EN 1078,5.2);	Pass



	g. year and quarter of manufacture;	Pass
	h. a label carrying the instructions –“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”	Pass
	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.	Pass
	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.	NA
7	Information supplied by the manufacture	
	With every helmet clear information in the language of the country of sale shall be given as follows:	Pass
	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;	Pass
	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;	Pass
	c. how the helmet should be positioned on the head to ensure the intended protection is provide (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); to protect the forehead and not be pushed too far over the back of the head);	Pass
	d. that a helmet cannot always protect against injury;	Pass
	e. that a helmet subjected to a severe impact should be discarded and destroyed;	Pass
	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.	Pass

Remark:

1. NA = Not applicable.
2. NT = Not tested as per client's request.



Test Report

No.: GZHL1809040353HM

Date: Sep 28, 2018

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Model: TT-32

Size: 48-52 cm

Test headform: 495 (EN 960:2006)

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	406.4
2	411.7
3	409.6
4	407.4
Average	408.8

Annex-2: Impact energy attenuation test

Test Specification: BS EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.2 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	4.62	107.6	Pass
		Flat	Left	5.45	196.6	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.48	198.8	Pass
		Kerbstone	Left Rear	4.61	93.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Crown	4.59	103.8	Pass
		Flat	Rear	5.47	147.7	Pass

Annex-3: Retention system strength

Test Specification: BS EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.2 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	20.9	6.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	20.7	6.2	Pass

Annex-4: Field of vision

Test Specification: BS EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



Test Report

No.: GZHL1809040353HM

Date: Sep 28, 2018

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Model: TT-32

Size: 54-57 cm

Test headform: 575 (EN 960:2006)

Annex-1: Mass

Mass of the samples:

Sample No.	Mass (g)
1	457.6
2	457.0
3	450.0
4	458.5
Average	455.8

Annex-2: Impact energy attenuation test

Test Specification: BS EN 1078:2012+A1:2012-5.4

Ambient temperature at time of test: 22.2 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	4.60	93.9	Pass
		Flat	Left	5.45	230.9	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	5.46	165.7	Pass
		Kerbstone	Left Rear	4.60	96.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Crown	4.63	101.1	Pass
		Flat	Rear	5.50	149.3	Pass

Annex-3: Retention system strength

Test Specification: BS EN 1078:2012+A1:2012-5.5

Ambient temperature at time of test: 22.2 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	20.7	7.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	20.8	7.5	Pass

Annex-4: Field of vision

Test Specification: BS EN 1078:2012+A1:2012-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



Sample Photo(s):

<p>Front view</p>	
<p>Side view</p>	




<p>Back view</p>	
<p>Top view</p>	



<p>Bottom view</p>	
<p>Label</p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>TT-32 S(48-52cm) ca.410g</p> </div> <div style="text-align: center;">  DIN EN 1078 </div> <div style="text-align: center;"> <p>TT-32 M(54-57cm) ca.450g</p> </div> <div style="text-align: center;">  DIN EN 1078 </div> </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; margin-top: 10px;"> <p>The designation, helmet for pedal cyclists, skateboarders or roller skaters WARNING! This helmet should not be used by children while climbing or doing other activities when there is risk of hanging if trapped by the helmet. The helmet, can be damaged by contact with common substance such as hydrocarbons, certain solvent (ammonia), cleaning fluids(bleach), paints, transfers or other extraneous additions. This damage may not be visible to the user. wipe with mild soap and water only. Please, refer to the user instruction manual for more specific care cleaning information. MADE IN CHINA Manufacturer: Dongguan Xinnuo Sport Goods CO.,LTD PRODUCTION DATE: 2018.05</p> </div>



<p>Instruction</p>	<h2 style="text-align: center;">Instructions</h2> <ol style="list-style-type: none"> 1.-For an optimum protection, the helmet should fit perfectly to the user's head, choose the size which best adapts to your necessities 2.-Once the helmet is adjusted: <ul style="list-style-type: none"> -The straps should form a "Y" forward of and below the ears, just like the figure indicate (the straps may not cover the ears) -The fastening system should be maintained under your chin -The helmet should be kept fastened on your head making sure the helmet cannot be removed from your head or rolled forward or backward excessively -You should have covered the forehead and the nap of the neck, just like the figure indicates, in a way that they are protected and the helmet does not block your vision 3.-It is necessary to replace the helmet in the next situation, which can damage the integrity of the helmet or its materials <ul style="list-style-type: none"> -After receiving a strong impact due to an accident (even if you do not observe any damages there can be an internal one) -After the helmet has been in contact with solvents or other products that attack the materials of the helmet -After the helmet has been exposed to temperatures exceeding 60°C -After a few years of careful use 4.-For cleaning use a soft cloth, mild soap and water only 5.-The use of pieces which are not recommended by the manufacturer or changes to the helmet can seriously damage the protection capacity of the helmet 6.-No helmet can protect the user against all kind of blows or unexpected impacts <p>How to wear it:</p>  <ul style="list-style-type: none"> ◆ 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 worn correctly, Make sure all the parts are in correct position ◆ Adjust the strap so that it fits snug under the chin. When the strap is adjusted properly and buckled. It should hold the helmet firmly in place. The strap forms a "Y" under the ears, and must be closed under the jaw and on the side of the neck. Make sure the strap is back against the throat, and NOT placed on the point of the chin. If you open your mouth and feel a slight pressure from the chin strap, the helmet fits well. Any slack in the strap must be pulled through the chin buckle. The loose ends of the strap must pass through the rubber "O" ring on the strap <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>"This helmet should not be used by children who climb or practice other activities which imply a risk to the child of falling or of remaining hanging when the child is trapped by the helmet"</p> <p style="text-align: center;">This product satisfies the regulation: EN 1078</p> </div>
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Test line for (495)
EN 960:2006 head
form



Test line for (575)
EN 960:2006 head
form



End of Report

