



Test Report

Number: SZHH01567011

Applicant: GTS SPORTS CO., LIMITED
Yanjiang Industrial Zone, Gekeng village
Hengli Town Dongguan City
Guangdong Province, China

Date: Jun 08, 2021

Attn: Harry

Sample Description:

Four (4) pieces of submitted sample said to be :

Item Name : **Bicycle Helmet**

Item/Model No. : **HS-558**

Helmet Size : M:55-58cm

Material for Helmet : Shell : PC+EPS

Liner

Date Manufactured : 2021/04

Country of Origin : China

Date Sample Received : May 06, 2021

Testing Period : May 06, 2021 ~ Jun 08, 2021



Tests conducted:

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





中国认可
国际互认
检测
TESTING
CNAS L0327

Test Report

Number: SZHH01567011

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

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Andy, Fu Bo
Title: Asst. Manager
CNAS Approved Signatory



Page 2 of 14



Test Report

Number: SZHH01567011

Tests Conducted

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 users of pedal cycles, skateboards and roller skates.

Number of samples tested: Four (4) sets.

Helmets size: 55-58 cm.

Test headform: J.

| 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°) |
| 4.4 | Shock 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) |



Page 3 of 14



Test Report

Number: SZHH01567011

Tests Conducted

| Clause | Test Items | Result |
|--------|---|---------------------------------------|
| 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:15.6 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 (Black) |
| 4.6.5 | 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. 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 (See appendix) |
| 4.6.6 | Effectiveness When tested in accordance with 5.6 the helmet shall not come off the headform. | P (Did not come off) |
| 4.6.7 | 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 |



Page 4 of 14



Test Report

Number: SZHH01567011

Tests Conducted

| Clause | Test Items | Result |
|--------|---|---------------------|
| 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) |
| 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: 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: "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." 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> | NA |





Test Report

Number: SZHH01567011

Tests Conducted

| 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; NA = Not Applicable

Appendix:

Section 5.2 – Inspection and determination of mass

| Sample No. | Mass (g) |
|-------------------------------------|-------------|
| 1 | 243.4 |
| 2 | 242.4 |
| 3 | 240.8 |
| 4 | 241.3 |
| Average(rounded off to nearest 10g) | 242.0 (240) |



Test Report

Number: SZHH01567011

Tests Conducted

Section 4.4—Shock absorbing capacity

Ambient temperature at time of test: 21.4°C

| Sample No. | Environment Impact | Test anvil | Location Impact | Velocity (m/s) | Peak (Gn) | Compliant |
|------------|--------------------|------------|-----------------|----------------|-----------|-----------|
| 1 | High | Kerbstone | Left | 4.58 | 116.4 | Pass |
| | | Flat | Crown | 5.45 | 180.5 | Pass |
| 2 | Low | Flat | Front | 5.49 | 131.7 | Pass |
| | | Kerbstone | Right | 4.59 | 90.2 | Pass |
| 3 | Artificial ageing | Kerbstone | Left | 4.58 | 93.5 | Pass |
| | | Flat | Rear | 5.43 | 161.1 | Pass |

Section 4.6.5—Retention system strength

| Sample No. | Dynamic extension (mm) | Residual extension (mm) | Compliant |
|------------|------------------------|-------------------------|-----------|
| 2 | 5.6 | 3.8 | Pass |
| 3 | 15.6 | 5.4 | Pass |

Photos for reference:



Page 7 of 14

Test Report

Number: SZHH01567011

Tests Conducted

| | |
|-----------|--|
| Side view |  |
| Back view |  |



Page 8 of 14

Test Report

Number: SZHH01567011

Tests Conducted

| | |
|-------------|--|
| Top view |  |
| Bottom view |  |



Page 9 of 14

Test Report

Number: SZHH01567011

Tests Conducted

| | |
|-------|---|
| Label | <div data-bbox="691 501 1254 786" style="border: 1px solid black; padding: 10px; margin-bottom: 10px;"> <p>Model: HS-558 Size:M (55-58)cm Weight:240g Production:May 2021 Made in China</p> </div> <div data-bbox="611 808 742 916" style="border: 1px solid red; padding: 5px; margin-bottom: 10px;">  </div> <div data-bbox="611 934 718 954" style="font-size: small;">size:15*20mm</div> <div data-bbox="630 963 699 1050" style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="font-size: 2em; text-align: center;">CE</p> <p style="font-size: x-small; text-align: center;">EN1078:2012 +A1:2012</p> </div> <div data-bbox="844 804 1272 934" style="font-size: x-small;"> <p>WARNING! 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. Helmet meets EN 1078: 2012 +A1:2012 standards. Lightweight protective helmet designed for Pedal Cycles, Skateboarding and Roller Skating use only. Constructed of expanded polystyrene. Helmets can be seriously damaged by substances such as solvents, paints, adhesives and cleaning solutions. Make no modifications. Helmet is made almost entirely of polystyrene and may be easily penetrated by sharp objects. No Protective headgear can protect the wearer against all unforeseen impacts and this will not eliminate all possibility of injury even when worn properly & helmet subjected to severe impact shall be discarded and destroyed. This helmet must be of good fit and fastened securely under the jaw. Manufacture Factory: GTS SPORTS CO., LIMITED Address: Tangang Industrial Zone, Gekang Village, Hengli Town Dongguan City, Guangdong Province, China</p> </div> |
|-------|---|




Page 10 of 14



Test Report

Number: SZHH01567011

Tests Conducted

| | |
|--|--|
| Instruction |  |
| <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ENGLISH</div> | <p>EN 1078:2012+A1:2012 EUROPEAN STANDARDS HELMET OWNERS MANUAL</p> <p>This helmet is in conformity with the regulation (EU) 2016/425. INSTRUCTION LEAFLET</p> <p>Before using your new helmet read carefully the instructions below.</p> <ol style="list-style-type: none"> 1. This helmet was tested and homologated according to European Norm EN 1078:2012+A1:2012 - "Helmets for pedal cyclists and for users of skateboards and roller skates." 2. This helmet was designed for the uses mentioned above. It must not be used in motorsports, to ride motorbikes or any other kind of utilization; 3. It is strictly prohibited to remove/modify any components that are part of this product. Such practice, besides representing a serious risk to the user, will void the guarantee given by Sport Direct Ltd; 4. Some models of AWE's helmets are supplied with a removable visor. The application of this visor to the EPS cap of the helmet does not influence the absorption capacity of the helmet. The visor itself does not provide any kind of protection; 5. Any helmet subjected to an impact must be destroyed and replaced even if it does not show any visible damage - as it's absorption capacity might be diminished. In any case, we recommend that the helmet is substituted at the end of five years (counting from the date of production) or when they do not fit any longer; 6. As this helmet is made of expanded polystyrene covered by plastic pellicle (of PVC or PC used to protect the EPS cap from splinters and minor damages as well as to give a better look to the product), there is the possibility it may be penetrated by sharp objects; 7. No helmet can protect the user against all possible accidents (including those involving bicycle collisions with motor vehicles). Inclusive, accidents at low speed may result in serious injuries to the head or even death. This helmet is made to protect the head and it cannot avoid cervical or backbone injuries, or any other physical injuries resulting from an accident; 8. The helmet must not be used by children when playing in order to avoid the risk of strangling; 9. Please obey all traffic rules in order to avoid accidents; 10. Make no modifications, including the attachment of helmet camera's, etc to this helmet as it may affect its protective capacity. <p>HELMET FITTING</p> <p>Helmet selection</p> <p>The helmet must be adapted to the users' head. Select the right helmet by trying on several sizes and choose the size that appears most comfortable and secure according to its morphology.</p> |



Page 11 of 14



Test Report









Number: SZHH01567011

Tests Conducted

ENGLISH

Adjusting the retention system

Start by putting the helmet on your head in such a way that the anterior and posterior parts of the helmet are at the same level and parallel to the floor. When the helmet is fitted perpendicularly to your head, the anterior and posterior belts must be at the same level (check the level of the straps - situated immediately under your ears).

If the belts are not at the same level, they may be adjusted by pulling them through the posterior side of the helmet. To adjust the length of the belts, slide the belt that needs to be adjusted, up or down, until it reaches the correct position. Any looseness of the belt must be eliminated using the buckle.

Attention:

- The belts must not cover your ears;
- The buckle must be away from the jaw bone;
- The extremities of the belt must be fastened to the rubber rings.

To see if the belts are correctly adjusted, try to remove the helmet from the front and from the back of the head. If it slides to the front, fasten the posterior belts. If it slides to the back then fasten the interior belts.

CLEANING / MAINTENANCE

- The helmet must be kept away from any heat source (do not leave it inside the car or any other place directly or indirectly exposed to solar radiation). High temperatures lead to the deterioration of the helmet and consequent loss of its characteristics (namely the absorption of energy);
- The maximum temperature at which the helmet may be exposed to is 50°C (112°F);
- The helmet must be cleaned only with water and a soft cloth. The use or application of sprays or cleaning agents, chemical substances (including ammonia) and solvents, may result in the degradation of the characteristics of the helmet (and in the loss of the guarantee);
- After cleaning, leave the helmet to dry, exposed to the air.

Notified Body: Telefication B.V. with its office located at
Wilmsdorf 50, 7327 AC Apeldoorn
Country: Netherlands Notified Body No. 0560

GTS SPORTS CO., LIMITED
Address:
Yanjiang Industrial Zone Gekeng village, Hengli Town, Dongguan
City, Guangdong Province, China.

The EU doc can be accessed from the link :
www.haoshenghelmet.com



Page 12 of 14



Test Report

Number: SZHH01567011

Tests Conducted

| | |
|-----------------|--|
| Test line |  |
| Impact sites #1 |  |



Page 13 of 14

Test Report

Number: SZHH01567011

Tests Conducted

Impact sites #2



End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. 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. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Ltd.



Page 14 of 14