

GUANGDONG SENHAI SPORTING GOODS CO., LTD.
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FOSHAN, GUANGDONG PROVINCE 528300 CHINA

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

Sample Description : SIMPLE ICE SKATE
Style / Item No. : PW-220
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : May 22, 2018
Test Performing Date : May 22, 2018 to Jul 24, 2018
Test Result(s) : For further details, please refer to the following page(s)

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



Arthur Mak
Approved Signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.
Guangzhou Branch Testing Center Headlines

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Test Conducted: Refer to EN 15638:2009 Ice skating-Safety requirements and test methods

1. Scope:

This standard applies to ice skates intended for users with a body mass up to 100 kg for ice skating excluding the field of sports competitions.

It specifies the minimum safety requirements for ice-skates as well as requirements for test methods, marking and information supplied by the manufacturer to reduce the risk of injuries to both third parties and the user during their normal use.

2. Number of Test Specimen: 1 pair (EU 24-31).

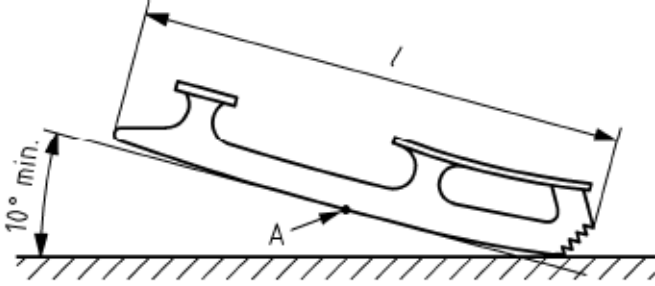
3. Test Results: Details shown as following table

Clause	Test Items	Verdict
4.2	Requirements for design	
4.2.1	Connection of the runner to the boot Binding elements shall prevent unintentional disconnection of the runner from the user's boot. This requirement is considered to be fulfilled, if the correct functioning of the ice skate is not impeded by broken, disconnected or loosened binding elements after the tests specified in Clause 5.	See remark 7 & 8
4.2.2	Attachment of the blade in the blade holder If blade and blade holder form a unit, it shall be so designed that when tested according Clause 5 the blade neither loosens nor disconnects.	NA
4.2.3	Linearity of the runner The runner of the ice skate shall not have a deviation from linearity of more than 0.5 mm over a length of 150 mm.	NT
4.2.4	Position of the runner Any part of the runner shall not protrude over the toe cap of the boot by more than 15% of the sole length.	Pass
4.2.5	Impact resistance The ice skate shall be designed so as to withstand the impact loads to which it is exposed during normal use. This requirement is considered to be fulfilled if the correct functioning of the ice skate is not impeded by any breaking, disconnection or loosening of the runner after the tests specified in Clause 5.	Pass* See remark 1, 4 & 5
4.2.6	Surface condition All protruding components and edges on the ice skate which can come into contact with body parts during normal use shall be deburred or shall be designed so as to prevent any injuries. Protruding fastening elements shall not stand out by more than the diameter of the fastening element.	Pass
4.2.7	Condition of the blade	
4.2.7.1	Hardness The blade shall have an effective hardening depth of at least 2.5 mm. The hardness value shall be at least 52 HRC on all hardening depth. These requirements do not apply, if the blade is not intended for regrinding.	NT
4.2.7.2	Grinding (sharpening) The blade shall be grinded so as to be functional. The necessity to regrind or replace the blade shall be indicated in the information supplied by the manufacturer.	NT



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Clause	Test Items	Verdict
4.2.7.3	<p>Teeth If a blade is equipped with teeth, the bottom teeth shall only come into contact with the ice, when the ice skate has an inclination of at least 10° towards the front, measured at the tangent of the runner at point A. See Figure 2.</p>  <p>Key A 1/2 L</p>	NA
4.2.7.4	<p>Shape of blade end The end of the blade shall either be rounded or shaped in such a manner that there is no angle smaller than 90°.</p>	Pass
4.2.7.5	<p>Thickness The blade shall have a thickness of at least 2.8 mm.</p>	See remark 6
6	<p>Marking Each ice skate shall be legibly and durably marked with the following information: a) The number of this standard; b) The name, trademark or other means of identification of the manufacturer or retailer; c) Means of identification of the model; d) The boot size; e) Information on material identification of the boot.</p>	NT
7	Information supplied by the manufacturer	
7.1	<p>General Easily understood information supplied by the manufacturer shall be provided with each pair of ice skates. This shall ensure that even a novice user will be able to use, handle and maintain the ice skates. Texts describing difficult or complicated operations are to be complemented with illustrations. The manufacturer's information shall be supplied together with the recommendation that this information shall be retained by the user for future reference.</p>	NT
7.2	Contents	
7.2.1	<p>General The information supplied by the manufacturer shall contain, in text or picture form, at least the information specified in 7.2.2, 7.2.3 and 7.2.4.</p>	NT



Clause	Test Items	Verdict
7.2.2	Information about the construction of the ice skate This information shall contain at least: a) Advice that no modifications shall be made that can impair safety; b) Advice indicating when self-locking nuts and other self-locking fixings may loose their effectiveness.	NT
7.2.3	Instructions for use The instructions for use shall contain at least: a) Description of the correct techniques for use and for braking; b) Advice that the user should always wear protective equipment; c) Instruction to check before each use that the connective components of the ice skate are firmly secured; d) Advice indicating any practical use (e.g. figure skating, ice hockey, normal skating); e) Advice concerning the elimination of any anticipated incorrect use of an ice skate; f) Instruction to use blade protectors outside the ice surface.	NT
7.2.4	Servicing and maintenance instructions Service and maintenance instructions shall state that regular maintenance enhances the safety of the equipment and shall include: a) Advice regarding the various properties of the ice skate and its maintenance; b) Advice concerning the replacement/exchange of individual parts; c) Note regarding the necessity of regrinding; d) Advice for running checks.	NT

Remark:

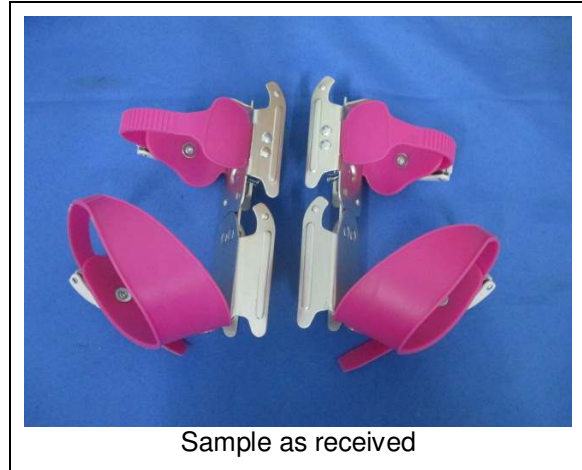
1. If the testing of Clause 5.5 Resistance against Impact Loads can't not be concluded within 5 min, the test shall be paused and the test sample shall be placement at temperature of (-20 ± 1) °C for another 1 hour;
2. NA --- Not applicable;
3. NT --- Not test as per client's request;
4. The blade deformed after test.
5. The adjustment system can not use as usual after test.
6. The blade is 1.62mm each side (total 2 side).
7. The shoe disconnected from the sample when the tensile force was 458N.
8. The sample deformed during the test of clause 5.4.



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Sample Photo(s):



End of Report



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