



Test Report

No.: SHHG1406021039SP

Date: JUL. 17, 2014 Page: 1 of 11

AURELIAN SPORTS LIMITED

BURLEIGH MANOR, PEEL ROAD, DOUGLAS, ISLE OF MAN IM1 5EP

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

Sample Description : DANCE/FITNESS POLE
Style/ Item No. : GRIP POLE / 1
Buyer : AURELIAN SPORTS LIMITE
P.O. No. : 111
Manufacturer : ZHEJIANG DONGHAO FITNESS EQUIPMENT CO., LTD
Supplier : ZHEJIANG DONGHAO FITNESS EQUIPMENT CO., LTD
Country of Origin : CHINA
Country of Destination : UNITED KINGDOM, AUSTRALIA, EUROPE, CHINA, USA
Sample Receiving Date : JUL. 01, 2014
Sample Resubmitted Date : JUL. 16, 2014
Testing Period : JUL. 01, 2014 TO JUL. 17, 2014
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : EN ISO 20957-1:2013 STATIONARY TRAINING EQUIPMENT
PART 1: GENERAL SAFETY REQUIREMENTS AND TEST
METHODS EXCLUDED CLAUSE 5.15, 5.16, 5.17, 5.18
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Ltd.

Vincent Feng
Technical Manager

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Test Conducted:

1. **EN ISO 20957-1: 2013 Stationary training equipment Part 1: General safety requirements and test methods excluded clause 5.15,5.16,5.17,5.18**
 - a) Number of Tested Specimen: 1 piece of sample
 - b) Usage class: Class H
 - c) Maximum user's weight specified by manufacturer: 200kg
 - d) Test Result: Details shown as following table.

Clause	Test Items	Rating
5	Safety Requirement	
5.1	General If any of the following safety requirements are applicable, the equipment shall meet the requirements using the test methods described in clause 6.	
5.2	Stability of equipment The stationary training equipment shall be stable in any direction, in training, folding and storage positions. The test shall be in accordance with 6.2	N/A
5.3	External construction	
5.3.1	Edges and corners All edges and corners of surface supporting bodies shall have a radius $r > 2.5\text{mm}$. All other edges of components which are accessible to the user or third parts shall be free of burrs, rounded or protected. Test in accordance with 6.3.1.	Pass
5.3.2	Tube ends When tested in accordance with 6.3.2, accessible tube ends shall be closed off, e.g. by parts of the equipment or by plugs. If plugs are used. They shall remain in position at the end of the endurance load test, as described in the relevant parts of the applicable specific standards. If no endurance test is described in a specific standard the pullout force of the plug shall be $\geq 20\text{ N}$.	Pass

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Clause	Test Items	Rating
5.3.3	Squeeze and shear points between moving parts, between moving parts and fixed parts, or between a moving part and the floor shall be guarded or shall have a minimum clearance of at least 60mm, except as follows: - If only the fingers are at risk, the dimension shall be at least 25mm; - If third party access is prevented by the user's body position, and where the user is able to immediately stop the movement, the distance shall be at least 25mm; - If the angle between two adjacent moving parts or between a rigid part and an adjacent moving part is always 50 degrees or greater, it is not considered a shear point; - Open and obvious stops are excluded; however, if the stop is the part which is moving, then it shall pass no clear than 25mm from any fixed frame member throughout its range of movement. All products shall fulfil the above requirements during use. For foldable products during folding or unfolding, the above requirements are waived if the following three requirements are simultaneously met: - Inadvertent movement is not possible during folding, unfolding, transportation and/or storage; - Access to squeeze and shear points remain at all times in the user's field of vision; - The user can stop the motion at any time. Test in accordance with 6.3.3.	N/A
5.3.4	Squeeze and shear points as well as rotating and reciprocating points in the accessible hand and foot area The distance between movable parts or between a movable and a fixed part shall be at least 60 mm except as follows: - if only fingers are at risk, the dimension shall not be less than 25 mm; - if the distance between the moving part and fixed part, or between two moving parts, does not change during use or setup, the distance shall be greater than 25 mm or less than 9,5 mm; - open and obvious stops are excluded. However, if the stop is the part which is moving, then it shall pass no closer than 25 mm to any fixed frame member throughout its range of movement. Test in accordance with 6.3.3.	N/A

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Clause	Test Items	Rating
5.3.5	Weights and resistant means The range of motion of all weights attached to the stationary training equipment shall be limited to that required to perform the exercise. Test in accordance with 6.3.4. Weights and resistant means with stored energies (e.g. bungee cords, elastic tubes, mechanical springs) shall move freely and return to the starting point. Weights shall be securely retained during use.	N/A
5.4	Entrapment of the user The possibility of users not being able to exit the equipment when using it according to the user's manual shall be avoided (e.g. providing assisted means of escape). Test in accordance with 6.4.	N/A
5.5	Adjustment components and locking mechanisms Adjustment components and locking mechanisms on the stationary training equipment shall function securely, be conspicuous, self-evident and safely accessible to the user. The possibility of unintended change shall be eliminated. Adjustment components and locking mechanisms e.g. knobs and levers shall not interfere with the user's range of movement. Weight selection pins shall be fitted with a retention device to prevent unintended change or movement during the exercise. Test in accordance with 6.5.	Pass
5.6	Ropes, belts, chains and attachment components	
5.6.1	General Ropes, belts, chains and their attachment components (e.g. snap links, shackles, carabineers, clamps or similar) shall have a safety factor against breakage of 6 times the maximum possible tension that can be developed. The design of the pulleys and the bending radius shall be in accordance with the applicable requirements of the rope, belt or chain manufacturers. Ropes, belts, chains and their attachment components shall not break and function as described in the user's manual. Test in accordance with 6.6.	N/A
5.6.2	Ropes and belts Rope and belt ends shall be, as a minimum, flush with the end of the termination means and shall be visible for inspection. Pressed connections shall not be subjected to bending. Rope and belt ends and grips shall have no sharp edges or frayed ends. Test in accordance with 6.6.	N/A

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Clause	Test Items	Rating
5.6.3	Rope and belt guides A means shall be provided to prevent a rope or a belt becoming unintentionally disengaged during use or set-up. Test in accordance with 6.7.	N/A
5.7	Pull-in points Pull-in points of rope or belt drives up to 1 800 mm height shall be protected except if the surface pressure is ≤ 90 N/cm ² or when access to the pull-in point is prevented by the user's body during exercising. This may be achieved by ensuring that the angle between the rope and the guard is not less than 50° in all positions. The guard shall not rotate together with the pulley. Test in accordance with 6.3.5. Pull-in points for chains, gears and sprockets shall be protected in accordance with ISO 12100. For flywheels the test finger (see Figure 1) shall not become trapped when tested in accordance with 6.8.	N/A
5.8	Hand grips	
5.8.1	Integral handgrips Gripping positions shall be easily identifiable and designed to reduce slipping (e.g. textured, coated, knurled). Test in accordance with 6.9.	N/A
5.8.2	Applied handgrips When tested in accordance with 6.10, applied handgrips shall not be removed. Applied handgrips shall be equipped with a surface that reduces hand slip.	N/A
5.8.3	Rotating handgrips Rotating handgrips shall be secured during use and shall be designed to reduce slipping (e.g. textured). Test in accordance with 6.11.	N/A
5.9	Endurance test The stationary training equipment shall function as specified in the manufacturer's instructions after the test has been carried out. Test in accordance with 6.12.	N/A

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Clause	Test Items	Rating
5.10	Isometric test requirements If the stationary training equipment is designed to perform an isometric test, then the load or force on the user's body shall be displayed with an accuracy of $\pm 10\%$ in the range of measurement given in the user's manual and the read outs shall be SI units. Test in accordance with 6.13.	N/A
5.11	Heart rate measurement system The function of the heart rate measurement system shall be indicated on the display when the equipment is receiving a usable signal from the user, e.g. a blinking heart. Test in accordance with 6.14.	N/A
5.12	Heart rate control mode The function of the heart rate measurement system shall be permanently indicated on the display when the equipment is receiving a usable signal from the user, e.g. a blinking heart. The loss of heart rate signal shall result in effort intensity remaining at the same intensity for maximum 60 s and then decrease until the minimum intensity is reached. The rate of decrease shall be at least 10 % in each 20 s time period. Test in accordance with 6.15.	N/A
5.13	Electrical safety Concerning electrical and electronic aspects of stationary training equipment EN 60335-1 shall be applied. For medical devices EN 60601-1 shall be applied.	N/A
5.14	Loading	
5.14.1	Intrinsic loading Each piece of equipment loaded with the user's bodymass shall withstand a force F of 2.5 times the bodymass. After the test the equipment shall not be broken and shall still function as intended by the manufacturer. Test in accordance with 6.16.	Pass

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Clause	Test Items	Rating
5.14.2	Extrinsic loading When tested according to 6.3.4 and loaded with the user's bodymass and/or reaction forces or moments of the user as well as other forces or moments caused by any other source (e.g. additional weights supported by a stand), each piece of equipment shall withstand a load F according to Formula (1): $F = [G_k + 1,5 G] \cdot 2,5 \cdot 9,81m/s^2 (1)$ where F is the load in newton; G is the maximum load in kilograms indicated by the manufacturer (see 5.17); G_k is the load in kilograms applied by the bodymass to the support being tested; 1,5 is the dynamic factor; 2,5 is the safety factor. After the test the equipment shall not be broken and shall still function as intended by the manufacturer. Test in accordance with 6.17.	N/A
5.15	Care and maintenance Care and, if applicable, maintenance advice shall be provided with each piece of equipment. The advice shall include at least: a) a warning notice to the effect that the safety level of the equipment can be maintained only if it is examined regularly for damage and wear, e.g. ropes, pulleys, connection points; b) an advice to replace defective components immediately and/or keep the equipment out of use until repair; c) special attention to components most susceptible to wear. Test in accordance with 6.18.	N/C

Clause	Test Items	Rating
5.16	Assembly instructions If the stationary training equipment requires assembly, then a manual shall be supplied (in the national language), giving clear and accurate assembly instructions relating to the stationary training equipment and with an emphasis on safe assembly. If the stationary training equipment requires assembly, then a list of tools needed shall be provided. If the stationary training equipment requires assembly, then a comprehensive parts list shall be supplied, including identifying part numbers. The manufacturer shall indicate the total mass and the total surface area (e.g. foot print) of equipment. When stationary training equipment is attached/anchored, e.g. to a wall or the floor, assembly instructions including the attaching/anchoring operations shall be provided. The manufacturer shall provide the minimum value (force) each attachment shall support. Test in accordance with 6.18.	N/C

Clause	Test Items	Rating
5.17	General instructions for use Each item of stationary training equipment shall be accompanied by a user's manual, in the national language including at least the following information. a) Customer service address. b) Full address of the manufacturer or importer. c) Indication of field of application (e.g. indoor use, explanation of the usage class). d) Indication that the free area shall be not less than 0.6 m greater than the training area in the directions from which the equipment is accessed. The free area must also include the area for emergency dismount. Where equipment is positioned adjacent to each other the value of the free area may be shared. The free area and training area shall be illustrated with a dedicated figure. e) Information on the correct use of the equipment and its features with the emphasis on safe operation, and the importance of keeping unsupervised children away from the equipment. f) Exercise instructions with advice with regard to correct biomechanical positioning of the user on the stationary training equipment. A warning indicating that injuries to health may result from incorrect or excessive training. Instructions shall be given in respect of every major exercise type for which the equipment is designed. g) Texts concerning difficult or complicated manoeuvres shall be accompanied by illustrations. h) Instruction on how to safely use access and escape assist means. i) Design illustration. j) Warning that if any of the adjustment devices are left projecting, they could interfere with the user's movement. k) Warning that free standing equipment shall be installed on a stable and levelled base. l) Setting of the load and equipment further adjustments (e.g. seat adjustments). m) Indication of the maximum user body mass. n) Indication of the maximum training mass, if applicable. o) Explanation of the displayed data, if applicable. p) If the heart rate is displayed, a warning with the following content shall be given: "WARNING! Heart rate monitoring systems may be inaccurate. Over exercising may result in serious injury or death. If you feel faint stop exercising immediately". Test in accordance with 6.18.	N/C

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Clause	Test Items	Rating
5.18	Marking Stationary training equipment shall be permanently marked with the following minimum information: a) name or trademark and full address of the manufacturer, supplier or importer; b) maximum body mass of user and the maximum training mass for the individual exercise stations (if applicable); c) usage classes S, H or I and accuracy classes A, B, C, which can be combined (e.g. SA) if both classes are specified in that part of this International Standard; d) individual code number (which contains information about type and year of manufacture); e) graphical symbol or written information in the national language(s) instructing the user to read the information supplied by the manufacturer; f) for class S and I equipment, a conspicuous graphical symbol or written information in the national language(s) shall be applied if the equipment needs attachment/anchoring for safe operation. It is the responsibility of the manufacturer to display compliance with this International Standard by the additional indication of ISO 20957 in connection with the letter symbol of the designation class(es) (class S, H and I). Test in accordance with 6.18.	N/C

Note:

N/A means not applicable.

N/C means not conducted as per client's requirement.

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Sample Photo:



End of Report

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