

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

Sample Description : TRAMPOLINE
Style No. : 8FT CURVED TRAMPOLINE WITH SAFETY ENCLOSURE
Item No. : TX-B7123-8FT

Sample Receiving Date : JAN.04, 2017
Sample Resubmitted Date : APR.01, 2017
Testing Period : JAN.04, 2017 TO APR.01, 2017
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : AS 4989-2015 TRAMPOLINE-SAFETY ASPECTS
EXCLUDING CLAUSE 2.2.4
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 Standards Technical Services (Tianjin) Co., Ltd.



Michael Wen

Section Head



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Test Conducted:

AS 4989 – 2015 Trampoline – Safety aspects excluding clause 2.2.4

1. This Standard specifies minimum design requirements for trampolines for domestic use and provides test methods to ensure compliance. The Standard also contains requirements and recommendations for the marking of domestic trampolines and the provision of consumer information.

The requirements in this Standard do not apply to mini-trampolines (rebounders), in-ground trampolines, gymnastic trampolines, inflatable trampolines solely for water borne usage, trampolines intended for therapeutic purposes only and trampolines installed in trampoline parks.

2. Number of Test Specimen: 1 pieces of sample
3. Maximum user's weight: 100 kg
4. Initial inspection: No damage was found.
5. Test results: details shown as following table:

Clause	Test Requirement & Test method	Rating
2.1	<p>Components</p> <p>A trampoline shall include the following as a minimum:</p> <p>(a) A frame that provides structural integrity and stability in accordance with Clauses 2.2.2 and 2.2.3.</p> <p>(b) A bed.</p> <p>(c) A frame-edge impact attenuation system in accordance with Clause 2.2.7.</p> <p>(d) An enclosure system in accordance with Clause 2.2.8.</p> <p>(e) No sharp edges or points in accordance with Clause 2.2.9.</p> <p>(f) No pinch, crush or shear locations in accordance with Clause 2.2.10.</p> <p>(g) An information packet in accordance with Appendix A, Paragraph A1.</p> <p>(h) Suitable product markings in accordance with Appendix A, Paragraph A4.</p>	Pass
2.2	Design	
2.2.1	<p>General</p> <p>The trampoline shall comply with the following:</p> <p>(a) It shall be designed and manufactured so that no part of the frame or legs can be impacted by the user while bouncing.</p> <p>(b) The maximum height of the bed from the ground shall not exceed 1160 mm.</p> <p>(c) When installed in accordance with the manufacturer's instructions, fasteners, lock washers, self-locking nuts, or other locking means shall be provided for all nuts and bolts to protect them from unintentional loosening. Hardware in moving joints shall also be secured against unintentional loosening.</p>	Pass
2.2.2	Structural integrity	
2.2.2.1	<p>General</p> <p>All trampolines shall be designed and constructed so that they maintain their structural integrity. When tested in accordance with Appendix G, the trampoline shall show no signs of any permanent deformation of rigid components or fracture or rupture of any component. The suspension system shall not show permanent deformation to any element in the system.</p>	Pass



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Clause	Test Requirement & Test method	Rating
2.2.2.2	Enclosure system structural integrity All trampolines shall be designed and constructed so that the enclosure barrier, enclosure support and attachment system and enclosure barrier exit/entry system maintain their structural integrity for the expected life of the product. When tested in accordance with Appendix E, the trampoline and the enclosure barrier, enclosure pole or frame and enclosure barrier exit/entry system shall show no signs of permanent deformation of rigid components or fracture or rupture of any component.	Pass
2.2.2.3	Assembly verification The trampoline shall be capable of being assembled without modification in accordance with the manufacturer's/supplier's instructions. The construction of the trampoline shall ensure that during play or movement, the trampoline components cannot become dislodged.	Pass
2.2.3	Structural stability Trampolines shall be designed and constructed so that they are stable.	Pass
2.2.4	UV degradation	
2.2.4.1	General A laboratory sample for testing shall consist of a trampoline either in the form in which it is marketed, or in the form in which it is intended to be marketed.	N/C
2.2.4.2	Trampoline bed fabric The trampoline bed fabric shall be UV stabilized to extend its life. The trampoline bed fabric shall meet the requirements of ASTM F2774, including the 5000 h UV test.	N/C
2.2.4.3	Bed attachment and suspension system components exposed to sunlight The bed attachment and suspension system components that are exposed to sunlight, such as springs, bed straps, bed connectors and bed stitching, shall be UV stabilized to extend their life and shall be tested in accordance with Appendix C. When tested in accordance with Appendix C, the bed attachment and suspension system components that are exposed to UV shall retain 80% or more of the pre-test strength properties at not less than 1000 h.	N/C
2.2.4.4	All other components exposed to sunlight All other components that are exposed to sunlight shall be UV stabilized to extend their life and shall be tested in accordance with Appendix C. When tested in accordance with Appendix C, all other components that are exposed to sunlight shall retain 80% or more of the pre-test strength properties at not less than 500 h.	N/C
2.2.5	Maximum user weight All trampolines shall be marked with a maximum user weight expressed in kilograms. The maximum user weight shall be not more than 0.2 multiplied by the weight to displace the bed to 80% of its possible deflection to the flat level ground when loaded using the loading device specified in Appendix G, Figure G1. The maximum user weight used for testing to the requirements of this Standard shall be that specified by the supplier.	Pass
2.2.6	Protection against entrapment	



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Clause	Test Requirement & Test method	Rating
2.2.6.2	<p>Entrapment of the head, neck and torso</p> <p>Trampolines shall be designed and constructed so that any openings that are more than 600 mm above the ground, either inside or outside of the trampoline, do not create head, neck or torso entrapment hazards either by head-first or feet-first passage.</p> <p>The following situations in which this type of entrapment can be encountered shall be considered when evaluating this requirement:</p> <p>(a) Partially bound or V-shaped openings.</p> <p>(b) Completely bound openings through which a user may slide feet first or head first.</p> <p>(c) Enclosure barrier and attachments.</p> <p>(d) The enclosure barrier exit/entry system.</p> <p>(e) Other openings such as shearing or moving openings where the head, neck or torso can become trapped.</p> <p>When tested in accordance with Appendix F, Paragraph F5, if accessible openings with a lower edge more than 600 mm above the ground allow passage of the small probe, the opening shall also allow passage of the large probe.</p> <p>Partially bound and V-shaped openings with a lower edge more than 600 mm above the ground shall be constructed so that either—</p> <p>(i) the opening is not accessible as illustrated in Figure F3 when tested in accordance with Appendix F, Paragraph F6.3(a); or</p> <p>(ii) the tip of the template contacts the base of the opening when tested in accordance with Appendix F, Paragraph F6.3(b).</p>	Pass
2.2.6.3	<p>Entrapment of clothing</p> <p>Trampolines shall be constructed so that hazardous situations in which clothing entrapment, which may result in strangulation, are not created; and shall be tested in accordance with Appendix F, Paragraph F7.</p> <p>The following situations in which this type of entrapment can be encountered while or immediately before the user is undergoing a forced movement or falling shall be considered when evaluating this requirement:</p> <p>(a) Gaps or V-shaped openings in which part of clothing can become trapped.</p> <p>(b) Enclosure barrier and attachments in which part of clothing can become trapped.</p> <p>(c) The enclosure barrier exit/entry system in which part of clothing can become trapped.</p> <p>(d) Protrusions and projections such as bolts and access ladders in which part of clothing can become trapped.</p>	Pass
2.2.7	Frame-edge impact attenuation system	



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Clause	Test Requirement & Test method	Rating
2.2.7.2	Performance requirements The impact-attenuating material or impact attenuation system shall have the following properties: (a) The Gmax shall be less than 200 G when the frame-edge impact attenuation system is tested in accordance with Appendix D. (b) It shall be designed to withstand direct impact of the user's body without allowing any limbs to penetrate into the suspension system. (c) It shall retain the following physical integrity at completion of the impact test: (i) The post-test thickness shall be at least 50% of the pre-test thickness when measured at the impact point 30 ±5 min after the impact test. (ii) There shall be no evidence of cutting or puncture of the impact attenuating material. The impact attenuating material shall be visually examined by dissection at the impact point to verify the post-test physical integrity after the final impact and noted.	Pass
2.2.7.3	Frame-padding If supplied, frame-padding shall cover the entire top surface of the frame, and the entire top surface of the suspension system and frame hardware in the unloaded state, and be securely attached to the frame. The frame-padding attachment system shall not break or separate from the pad or frame throughout the test procedure given in Appendix D when fitted in accordance with the manufacturer's instructions. At the completion of the impact test of Appendix D, the frame padding system shall retain the following physical integrity: (a) The post-test thickness shall be at least 50% of the pre-test thickness when measured at the impact point 30 ±5 min after the impact test. (b) There shall be no evidence of cutting or puncture of the frame-padding system. The frame-padding system shall be visually examined by dissection at the impact point to verify the post-test physical integrity after the final impact and noted.	Pass
2.2.7.4	Colour The frame-edge impact attenuation system shall contrast with the colour of the trampoline bed or include a band of colour that contrasts with the colour of the trampoline bed.	Pass
2.2.8	Enclosure system	
2.2.8.1	Components A trampoline enclosure system shall include the following components: (a) Enclosure barrier. (b) Enclosure barrier support and attachment system. (c) Enclosure barrier exit/entry system. (d) Poles that pose no hazard to the user.	Pass



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Clause	Test Requirement & Test method	Rating
2.2.8.2	<p>General requirements</p> <p>The general requirements for the enclosure system are as follows:</p> <p>(a) The enclosure support and attachment system and enclosure system materials shall be of sufficient strength and rigidity to hold the enclosure system in place and withstand the loads outlined in Appendix E. The enclosure height shall be verified after the trampoline has been tested in accordance to Appendix E and a fail recorded if the enclosure height does not meet the minimum enclosure height required of Item (b) below.</p> <p>(b) For trampolines with an outer frame area less than 5.2 m², the enclosure height shall be 1.5 m or higher when measured relative to the bed. For all other trampolines, the enclosure height shall be 1.8 m or higher when measured relative to the bed.</p> <p>(c) Connecting devices shall be closed and not overlap (see Note 1).</p> <p>(d) Rigid components of the enclosure support and attachment system exposed to contact during foreseeable usage shall be padded.</p> <p>(e) Rigid upright components of the support and attachment system shall have a device to protect against impalement. An example of this is a capping with a minimum cross-sectional area of more than 2000 mm² and an edge radius of greater than 3 mm.</p> <p>(f) The enclosure support and attachment system shall consist of the following:</p> <p>(i) Upper attachment to the support frame.</p> <p>(ii) Lower attachment to trampoline bed or trampoline frame top rails. The attachment of the enclosure system shall be of sufficient strength and durability to withstand tearing, deformation or failure as a result of the loads outlined in Appendix E.</p> <p>(g) The enclosure barrier shall include an opening to allow entry and exit of the user from the trampoline bed. The enclosure barrier exit/entry system shall comply with the following:</p> <p>(i) It shall be provided with a means of closing.</p> <p>(ii) When closed according to the manufacturer's instructions, it shall be of sufficient strength and durability to withstand tearing, deformation or failure as a result of the loads outlined in Appendix E.</p>	Pass
2.2.8.3	<p>Enclosure user containment test</p> <p>The trampoline enclosure shall be designed and constructed so that when it is assembled, and the enclosure barrier exit/entry system is closed, there is no accessible rigid or non-rigid opening from within the enclosure that presents the risk of unintentional user exit.</p> <p>An opening shall be deemed to fail the containment test if it allows full passage of the small probe, providing access outside the containment of the trampoline enclosure and bed, when tested in accordance with Appendix F, Paragraph F4.</p>	Pass
2.2.9	<p>Sharp edges and points</p> <p>The trampoline shall be designed so that when assembled there are no sharp edges or points on any part of the trampoline capable of inflicting an injury to the user during normal use and foreseeable misuse. All edges and points on the trampoline shall meet the requirements of AS/NZS ISO 8124.1:2013, Clauses 4.6 and 4.7.</p>	Pass



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Clause	Test Requirement & Test method	Rating
2.2.10	Pinch, crush and shear locations The following requirements apply: (a) There shall be no pinch, crush, or shear locations caused by junctures of two or more components moving relative to one another in any accessible area of the trampoline both in the jumping area and outside of it. (b) Holes, slots and gaps in or between any rigid materials that are accessible while the user is bouncing shall also admit a 12 mm diameter rod if they can admit a 5 mm diameter rod to a depth of 10 mm or more. (c) Springs shall meet the requirements of AS/NZS ISO 8124.1:2013, Clause 4.14.	Pass
2.2.11	Metallic parts Metallic parts of trampolines, including fasteners and fixing mechanisms, shall meet the following requirements: (a) When tested with a 5% neutral salt spray in accordance with ISO 9227 for a duration of 48 h, all structural metallic parts, coated or non-coated, shall present a surface aspect with less than 8% red-rusted surface. (b) No welds shall be made to any steel frame or accessory component with a thickness of less than 1.5 mm. (c) No 'saddle' welds shall be made to any steel frame or accessory component with a thickness of less than 1.8 mm. (d) Welds should appear fit for purpose with good fusion.	Pass
2.2.12	Protruding parts	
2.2.12.2	All protrusions No protrusion shall extend beyond the full depth of the test gauges when tested in accordance with Appendix H. No protrusion shall terminate in a dimension greater than that of the base dimension. In the case of hardware, the base dimension shall be defined as the major dimension of the attachment nut or bolt head.	Pass
2.2.12.3	Upright protrusions Protrusions that fit within any of the gauges defined in Appendix H and that project upwards from a horizontal plane shall have no projection perpendicular or at an acute angle to the plane of the initial surface extending more than 3 mm in height, as shown in Figure 2.6.	Pass
Appendix A	Information and marking requirements	
A1	Information packet	
A1.1	General	Pass
A1.2	Information packet marking	Pass
A2	Installation, care and maintenance instruction	
A2.1	General	Pass
A2.2	Installation instructions	Pass
A2.3	Care and maintenance instructions	Pass
A3	Safety Information	



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Clause	Test Requirement & Test method	Rating
A3.1	General	Pass
A3.2	Safe use information	Pass
A3.3	Safe use instructions	Pass
A3.4	Basic trampolining instructions	Pass
A4	Product Marking	
A4.1	Warning labels	Pass
A4.2	Location of warning labels	Pass
A4.3	Warning performance requirements	Pass
A4.4	Identification	Pass
A5	Packaging	Pass

Note:

Pass means meet the requirement

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



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End of Report



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