



Test Report

No.: SHHG1309034154IP

Date: SEP.24,2013

Page: 1 of 10

GROCORP
10 MARTINI PARADE LITHGOW NSW 2790 AUSTRALIA

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

Sample Description : COT
Style/ Item No. : C61 BACKSAVER 2
Buyer : GROCORP
P.O. No. : C61 BACKSAVER 2
Manufacturer : HUAU FURNITURE
Supplier : GROCORP
Country of Origin : CHINA
Country of Destination : AUSTRALIA
Sample Receiving Date : SEP.11,2013
Testing Period : SEP.11,2013 TO SEP.24,2013
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : AS/NZS 2172:2013- COTS FOR HOUSEHOLD USE—
SAFETY REQUIREMENTS
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.

Oliva Kou
Operation Manager

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Test Conducted:

AS/NZS 2172:2013- cots for household use—safety requirements

1. Scope:

This Standard specifies safety requirements and test methods for cots. These include material, design, construction, performance, labeling and marking requirements, all of which are important for the well-being of children who use cots. The Standard is applicable to cots for use in household situations. It is not applicable to most types of folding cots. Folding cots are covered in AS/NZS 2195, however, timber folding cots or cots made with rigid materials are required in AS/NZS 2195 to comply with all applicable requirements of this Standard. Requirements for cots in day nurseries, hospitals and institutions are given in AS/NZS 2130.

2. Number of test sample: 1 Piece of sample with package

3. Mattress size recommended by manufacturer: 1000mm X 630mm

4. Internal size of the cot: 1020mm X 665mm

5. Test Result: Details Shown As Following Table:

Clause	Test Method/ Requirement	Rating
4	Materials	
4.1	Timber a) Not contain splinters, loose knots, compression failures, pith or reaction wood as defined in AS/NZS 4491. b) Be free from decay and insect attack; and c) Be free from the intentional addition of hazard chemicals such as copper chrome arsenate.	Pass (Guarantee letter was provided)
4.2	Metals All the metal parts shall be either made of corrosion-resistant material or be protected form corrosion.	Pass
4.3	Toxicological requirement All exposed surface of the cot shall comply with the toxicological requirement specified in AS/NZS 8124.3	Pass (See chemical result)
5	Construction	
5.1	General All components of the cot shall— a) be permanently fixed or require the use of a tool to enable partial or total disassembly, so that the requirements of Clause 9 are complied with; and b) utilize a system of assembly/disassembly that precludes possible tampering by a child within the cot. All joints shall be close fitting and in accordance with Clause 9.2.	Pass

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Clause	Test Method/ Requirement	Rating
5.2	Small parts Removable components and components that detach during testing in accordance with Appendices B to F, H and I shall not fit entirely into the small parts cylinder when tested in accordance with Appendix J.	Pass
5.3	Open-ended tubes There shall be no open-ended tubes.	Pass
6	Design	
6.1	Dimensions a Fix base cots: The vertical distance between the top of the mattress base and top edge of the lowest cot side or end when: 1) The access is closed shall not be less than 600 mm. 2) The access is open shall not be less than 250 mm.	Pass
	b Adjustable base cot: The vertical distance between the top of the mattress base and top edge of the lowest cot side or end when: 1 lower position: 1) the access is closed shall not be less than 600 mm. 2) the access is open shall not be less than 250 mm. 2 upper position 1) the access is closed shall not be less than 400 mm. 2) the access is open shall not be less than 250 mm.	N/A
	c The distance between adjacent filler bars or filler bars and filler panel shall be not less than 50 mm.	Pass
	d Distance between mattress and any part of the cot sides or ends at its centred measured horizontal shall be not more than 20mm.	Pass
	e Distance between the bottom rail of the dropside and the mattress base measured horizontal with the mattress base in the lower position and the dropsied in the closed position shall be not less than 12 mm and not more than 30 mm.	Pass
	f Distance between the floor and the bottom rail of the dropside at its lowest point of the travel shall not be less than 50 mm.	Pass
	Footholds	
6.2	There shall be no structural or components between 150 and 550 mm above the mattress base that could be used as footholds or toeholds for climbing	Pass
6.3	Access Fastening Device Any access fastening device shall engage automatically when the dropside is raised and shall consist of : a) two fastening devices separated by a distance of at least 850 mm that have	Pass

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	<p>to be operated simultaneously; or</p> <p>b) a system that requires at least two separate but simultaneous actions operating on different principles.</p> <p>c) A system that requires at least two consecutive actions operating on different principles the operation of the second being dependent on the first having been carried out and sustained; or</p> <p>d) Locking mechanisms so constructed that the residual force for operating them is at least 50 N when measured after the test in Appendix E; or</p> <p>e) By so positioning the device that it is inaccessible to the child within the cot. For a mechanism designed for a lift and push dropside release, either action (lift or push) shall comply with Item (d).</p>	
6.4	<p>Dropside Guides</p> <p>a The guides shall be designed and fastened to enable the dropside to move freely up and down.</p> <p>b Each guide shall be fastened firmly to the cot frame at both ends and, where practicable , at an intermediate level near to the mattress base.</p>	Pass
6.5	<p>Bottom Rails</p> <p>The bottom surface of the bottom rail on the sides and the ends of the cot shall not be higher than the upper surface of the mattress base.</p>	Pass
6.6	<p>Castors Or Glides</p> <p>Where castors glides are provided, one of the following shall apply:</p> <p>A) Two castors</p> <p>B) Two glides</p> <p>C) Two castor, both having brakes, and two glides.</p> <p>D) Four castors, of which at least two have brakes.</p>	Pass
6.7	<p>Snag points.</p> <p>Protrusion shall not be more than 5 mm unless they are so designed that they can not snag onto clothing</p>	Pass
6.8	<p>Sharp Edges And Sharp Points</p> <p>Unless covered by padding or not accessible to the child, edges, protrusions or sharp points shall comply with the following:</p> <p>a) There shall be no protrusions that are accessible to the 95 mm diameter spherical probe specified in Appendix A unless they have a radius of at least 2 mm and not exceeding 5 mm in height. The spherical probe access check shall be conducted within the cot, and shall be conducted both with and without the mattress, with the mattress base in upper and lower position, and with the dropside in the closed position.</p> <p>NOTE: The intention of this Clause is to ensure that the inside of a cot is free from protrusions that could injure a child (especially its head) if the child fell or rolled onto the protrusion.</p> <p>b) Edges within the cot and along the top of the cot shall have a radius of at least 2 mm or chamfered in accordance with Figure 4.</p>	Pass

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Clause	Test Method/ Requirement	Rating
	c) Cots and all components such as hinges, brackets and catches, shall be free of burrs, sharp points and sharp edges. Potential sharp points and sharp edges shall be tested in accordance with AS/NZS ISO 8124.1.	
7	Toys Included With Cot Where a cot incorporates a toy, that toy shall comply with AS/NZS ISO 8124.1 and AS/NZS ISO 8124.2 and AS/NZS ISO 8124.3	N/A
8	TRANSFERS Decorative transfers shall not be accessible to the child within the cot.	N/A
9	Safety And Performance Requirements	
9.1	General The tests specified in this Clause shall be performed on the same cot and in the following sequence: Clauses 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.2 and 9.12. At the end of the test sequence, the dropside shall be able to move freely up and down and the access fastening device shall properly engage.	Pass
9.2	Entrapment hazard test When tested in accordance with Appendix A, all holes and gaps within the cot shall be a) sufficiently large to allow a sphere of 50 mm diameter to pass through but not allow a sphere of 95 mm diameter to pass through; or	Pass
	b) sufficiently large to allow a cylindrical probe of 12 mm diameter to enter but not allow a sphere of 30 mm diameter to pass through; or	Pass
	c) sufficiently small as not allow a cylindrical probe of 5 mm diameter to enter to a distance of at least 10 mm unless it allows lateral movement of the probe by at least 20 mm in any direction.	Pass
9.3	Impact Test When tested in accordance with Appendix B, no component of the cot shall fracture, detach or permanently deform; nor shall any fastening device (e.g. screws) or joint between components loosen; and the access shall not inadvertently open.	Pass
9.4	Filler bar, filler panel and corner post strength test When tested in accordance with Appendix C, no filler bar, filler panel or corner post shall break, permanently deform or suffer joint failure. No part shall detach and the dropside shall not inadvertently open.	Pass
9.5	Access fastening device and dropside mechanism strength test When tested in accordance with Appendix D, the access fastening device or dropside mechanism shall not break or fracture. No part shall detach or suffer joint failure, and the dropside shall not inadvertently open.	Pass

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Clause	Test Method/ Requirement	Rating
9.6	Access fastening device durability test When tested in accordance with Appendix E, no part shall detach, and the access fastening device or dropside mechanism shall not fail to hold the access in a fully closed position.	Pass
9.7	Dropside mechanism durability test When tested in accordance with Appendix F, no part shall detach, there shall be no damage to the dropside, and the dropside mechanism shall not permanently deform or suffer damage.	Pass
9.8	Stability test When tested in accordance with Appendix G, no legs of the cot shall lift off the floor.	Pass
9.9	Torque test When tested in accordance with Appendix H, components that detach shall not fit entirely into the small parts cylinder when tested in accordance with Appendix J.	Pass
9.10	Tension test When tested in accordance with Appendix I, components that detach shall not fit entirely into the small parts cylinder when tested in accordance with Appendix J.	Pass
9.11	Dropside strength test When tested in accordance with Appendix K, the bottom or top rail shall not break or fracture. No filler bars shall separate from either the bottom or top rail or suffer joint failure.	Pass
9.12	Mattress or other sleep surface firmness test If a mattress is supplied with the cot, it shall be tested in accordance with AS/NZS 8811.1. When tested in accordance with AS/NZS 8811.1, the feeler arm shall make no contact with the sleep surface or any covering thereof.	N/A
10	Plastic Packaging Flexible plastic packaging or wrapping, which is a bag, capable of being formed into a bag or capable of forming an opening with a circumference of 350 mm or more and a depth of 130 mm or more, shall be either— (a) perforated with round holes of at least 5 mm in diameter (or other shaped holes of equivalent area) so that when the whole of a square template (measuring 150 mm along each side) is placed anywhere on the packaging the template will completely cover at least one of the perforation holes; or (b) made from a plastic material that has a thickness of 38 µm or more and carry a cautionary label similar to the following: WARNING: TO AVOID DANGER OF SUFFOCATION TO BABIES AND CHILDREN DISPOSE OF THIS IMMEDIATELY. NOTE: The dimensions of 350 mm and 130 mm are measured after the packaging has been spread out to its fullest extent without distorting.	N/A
11	Informative Labeling	
11.1	Information on leaflet Each cot shall include the following information on a leaflet in the cot package:	Pass

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Clause	Test Method/ Requirement	Rating
	<p>(a) Clear and complete instructions for assembly of the cot.</p> <p>(b) Clear and complete instructions for maintenance of the cot.</p> <p>(c) The following statement: RECOMMENDED MATTRESS SIZE This cot has been manufactured for use with a mattress which measures XX mm wide by YY mm long and ZZ mm in thickness. The width and length are specified because it is important that the gaps between the mattress and the sides and ends of the cot will not exceed 40 mm when the mattress is pushed to one side or end, and 20 mm when the mattress is centred in the cot. The thickness of the mattress has been specified to ensure that the depth of the cot is greater than 500 mm with the mattress base in the lower position to minimize the risk of a child climbing or falling out of the cot.</p> <p>(d) For adjustable base cots a warning notice as follows: WARNING: TO PREVENT FALLS, THE MATTRESS BASE OF THIS COT SHOULD BE ADJUSTED TO THE LOWEST POSITION BEFORE THE CHILD CAN SIT UP.</p> <p>(e) The manufacturer's, importer's or distributor's name and contact address.</p> <p>(f) A statement drawing attention to—</p> <p>(i) the need to follow the manufacturer's assembly instructions in detail to ensure the safety features of the cot are not compromised;</p> <p>(ii) the need to ensure the cot is placed at a reasonable distance from curtains, blinds, heaters and power points; and</p> <p>(iii) the need to keep medication, string, elastic, small toys or small items, such as money, out of reach from any position in the cot.</p>	
11.2	<p>Information on external packaging Each cot should include the following information on the external surface of the packaging: WARNING: TO PREVENT SUFFOCATION AND FALLS, THE RECOMMENDED MATTRESS SIZE SHOULD BE XX mm WIDE x YY mm LONG AND NO MORE THAN ZZ mm THICK. NOTE: It is the intention of this Clause (11) to ensure that—</p> <p>(a) a minimum distance of 500 mm is maintained between the top surface of the mattress and the top of the lowest side or end with the access closed and the base in its lower position; and</p> <p>(b) a minimum distance of 300 mm is maintained between the top surface of the mattress and the top of the lowest side or end with the access closed and the base in its upper position.</p>	Pass
12	Marking	
12.1	<p>Marking requirements All parts of the marking in this Clause (12.1) shall be able to pass the tests specified in Clauses 12.2 and 12.3. All cots shall be prominently marked on the top surface of the mattress base, or on both surfaces if the base is reversible, as follows:</p> <p>(a) For cots of Australian or New Zealand manufacture—the manufacturer's, importer's or distributor's name and contact address.</p> <p>(b) For cots not manufactured in Australia or New Zealand—</p>	Pass

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Clause	Test Method/ Requirement	Rating
	(i) the country of origin; and (ii) the importer's name and contact address. (c) RECOMMENDED MATTRESS SIZE: XX mm wide × YY mm long × ZZ mm thick (d) A warning notice as follows: WARNING: TO PREVENT FALLS, THE MAXIMUM MATTRESS THICKNESS SHOULD NOT EXCEED ZZ mm. NOTE: It is the intention of this Clause to ensure that— (a) a minimum distance of 500 mm is maintained between the top surface of the mattress and the top of the lowest side or end with the access closed and the base in its lower position; and (b) a minimum distance of 300 mm is maintained between the top surface of the mattress and the top of the lowest side or end with the access closed and the base in its upper position. (e) For adjustable base cots, a warning notice as follows: WARNING: TO PREVENT FALLS, THE MATTRESS BASE OF THIS COT SHOULD BE ADJUSTED TO THE LOWEST POSITION BEFORE THE CHILD CAN SIT UP. (f) The month and year of manufacture. NOTE: To facilitate any necessary recall action, it is suggested that a manufacturing batch number or other identification be marked on the cot.	
12.2	Marking legibility Wording shall be clearly legible in monoline, geometric, lineale typeface of medium width characters not less than 2.5 mm high (see Note). Each warning statement in its entirety shall be in bold, uppercase, typeface and not less than 5 mm high. NOTE: Typeface descriptions of 'monoline', 'geometric', 'lineale' and 'medium width' are defined as follows: (a) Monoline—any typeface in which all strokes of the letters are apparently of equal thickness. (b) Geometric—lineale typefaces constructed on simple geometric shapes, circle or rectangle. (c) Lineale—typefaces without serifs (formerly called 'sans serif'). (d) Medium width—the width which the manufacturer (of the type) puts forward under the name of the family (i.e. the group of typefaces that are derived from one basic design) as representing the design in that normal width from which variants in the family have been or may be derived.	Pass
12.3	Marking durability Labels shall show no detachment from the cot, and the wording on labels either fixed to the product or on marking shall be easily legible when rubbed by hand for 15 s with a piece of cloth soaked in water, allowed to dry and rubbed for 15 s with a piece of cloth soaked with undiluted liquid domestic dishwashing detergent.	Pass

Note: N/A = Not applicable

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Chemical result:

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA13-183936.001	Brown coating

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

AS/NZS ISO 8124.3:2012- Migration of Certain Elements

Test Method : As specified in the AS/NZS ISO 8124.3:2012. analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001
Soluble Lead (Pb)	90	mg/kg	5	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND
Soluble Selenium (Se)	500	mg/kg	10	ND

Notes :

- (1) Results shown are of the adjusted analytical results.

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Test Report

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Sample Photo:

Received sample (front view)



Received sample (side view)



End of Report

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