

CHART LINK HK LTD

ROOM 3, 3/F, KAI WONG COMMERCIAL BUILDING, 222 QUEEN'S ROAD, CENTRAL, HONG KONG

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

Sample Description : BRANDON 3' BUNK BED/ WHITE,SILVER,BLACK
 Style / Item No. : BRANDON 3' BUNK BED
 Buyer : SECONIQUE FURNITURE LIMITED
 Manufacture : ZHANGZHOU MINHANGFA STEEL PIPE CO., LTD
 Supplier : CHART LINK HK LTD
 Country of Origin : CHINA
 Country of Destination : UK
 Agent : CHART LINK HK LTD
 Sample Receiving Date : Sep. 30, 2019
 Further Information Receiving Date : Nov. 12, 2019
 Test Performing Date : Sep. 30, 2019 to Nov. 25, 2019
 Test Performed : Selected test(s) as requested by applicant
 Test Result(s) : For further details, please refer to the following page(s)

Test Result Summary

| Test(s) Requested | Result(s) |
|---|-----------|
| BS EN 747-1:2012+A1:2015 & BS EN 747-2:2012+A1:2015 | Pass |

Summary:

- For further details, please refer to the following page(s).

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



Beck Hong
 Approved Signatory



SGS-CSTC Inspection & Testing Services Co., Ltd.
 Xiamen Branch Testing Center Hardlines

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TESTS AND RESULTS

Test Conducted:

BS EN 747-1:2012+A1:2015 Furniture—Bunk beds and high beds - Safety, strength and durability requirements;
BS EN 747-2:2012+A1:2015 Furniture—Bunk beds and high beds - Test methods.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

| Test | Test Description and Requirements | Test Results |
|------------------------------|---|--------------|
| 4 Safety Requirements | | |
| 4.1 | Construction | |
| EN 747-1:2012+A1:2015, 4.1.1 | <p>General</p> <ul style="list-style-type: none"> - Accessible edges and corners shall be rounded or chamfered and free from burrs or sharp edges. - There shall be no open ended tubes. - All assembly and pilot holes shall be made by the manufacturer. - It shall not be possible to dismantle the bed or its components without the use of a tool. - Vertically protruding parts on the top of the upper bed shall either: <ol style="list-style-type: none"> a) have an uninterrupted minimum horizontal dimension of 300 mm without any other vertical protrusion, or b) have an uninterrupted vertical dimension of at least 600 mm measured from the highest adjacent part, or c) where the largest dimension is 50 mm or more, have a maximum height at which a line, drawn at 45° touches it, of not more than 5 mm above at least one adjacent/adjoining horizontal component; the maximum vertical protrusion above that component shall not exceed 20 % of the largest horizontal dimension of parts, or d) where the largest dimension is less than 50 mm, have a maximum height at which a line, drawn at 45° touches it, of not more than 5 mm above at least one adjacent/adjoining horizontal component; the maximum vertical protrusion above that component shall not exceed 10 mm of parts. - It shall not be possible to dismantle the bed or its components without the use of a tool. - The dimensional requirements apply both before and after testing without re-tightening. | PASS |



| Test | Test Description and Requirements | Test Results |
|--------------------------------|---|--------------|
| EN 747-1:2012+A1:2015, 4.1.2.1 | <p>Accessible holes gaps and openings-General</p> <p>There shall be no accessible holes, gaps or openings with a diameter/width greater than 7 mm and less than 12 mm, unless the depth is less than 10 mm when tested according to 5.3 of EN 747-2:2012+A1:2015.</p> <p>All other accessible holes, gaps or openings shall be either:</p> <ul style="list-style-type: none"> - at least 12 mm but not more than 25 mm, when tested in accordance with 5.3 of EN 747-2:2012+A1:2015; or - at least 60 mm but not more than 75 mm, when tested in accordance with 5.3 of EN 747-2:2012+A1:2015; or - at least 200 mm. | PASS |
| EN 747-1:2012+A1:2015, 4.1.2.2 | <p>Accessible holes gaps and openings-Head entrapment on the outside of the bunk bed/high bed</p> <p>The following requirements apply only to openings, where the lowest part is ≥ 600 mm from the floor. Partially bound, V and irregular shaped openings shall be constructed so that:</p> <p>a) portion B of the template shall not enter the opening to the full thickness of the template when tested in accordance with 5.3.2 of EN 747-2:2012+A1:2015; or</p> <p>b) the apex of portion A of the template shall contact the base of the opening when tested in accordance with 5.3.2 of EN 747-2:2012+A1:2015.</p> | PASS |
| EN 747-1:2012+A1:2015, 4.1.3 | <p>Bed base(s)</p> <ul style="list-style-type: none"> - The bed shall have a means (e.g. fastening) of preventing the side rails from bending outwards. This requirement is fulfilled if the bed base(s) or its elements do not fall down when tested with the horizontal outwards force of 500 N; - All gaps between the bed base and the side or ends shall not exceed 25 mm when measured in accordance with 5.3 of EN 747-2:2012+A1:2015. - All gaps between bed base components, (e.g. slats or springs) shall not exceed 75 mm when measured in accordance with 5.3 of EN 747-2:2012+A1:2015. - When tested in accordance with 5.4.3, 5.4.5 and 5.4.4 of EN 747-2:2012+A1:2015, the bed base and/or its elements shall not break, fall down or become detached. - The distance between the upper surface of the lower bed base and the underside of the upper bed base shall be at least 750 mm. - The bed base shall allow ventilation. This requirement is fulfilled if there is a minimum ventilation area of 35 cm² (e.g. 8 holes with a diameter of 24 mm in a solid bed base, gaps between slats). The openings shall fulfil the requirements in 4.1.2. | PASS |



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| Test | Test Description and Requirements | Test Results |
|-------------------------------------|--|--------------|
| <p>EN 747-1:2012+A1:2015, 4.1.4</p> | <p>Safety barriers</p> <ul style="list-style-type: none"> - Any upper bunk bed or high bed shall be equipped with continuous safety barriers all around the bed, with the exception of an opening for access, which shall be located on one long side only. Gaps between the ends of the safety barrier and the bed end structures shall not exceed 7 mm, when tested according to 5.3 of EN 747-2:2012+A1:2015. - In non-domestic use only, the structure of the building can act as a safety barrier, provided that the bed is fastened to it in accordance with the manufacturer's instructions. - The safety barriers shall be secured against unintentional loosening. This requirement is fulfilled if the safety barriers do not become damaged or loosened when tested in accordance with 5.4.2 of EN 747-2:2012+A1:2015. - The distance between the upper edge of the safety barriers and the upper surface of the bed base shall be at least 260 mm. - The top of the mattress shall be at least 160 mm below the upper edge of the safety barriers. The maximum thickness of the mattress shall be permanently marked. - With the exception of the upper corners of the safety barrier, which may end in a maximum radius of 85 mm, the opening for access shall have a width between 300 mm and 400 mm from the maximum mattress thickness mark to 160 mm above it. - With the exception of the long side, where the ladder or other means of access shall be mounted, the horizontal distance between the outside of the top safety barrier and the vertical projection of the outermost point of the legs/posts/panels, shall not exceed 55 mm nor shall be more than 230 mm. - With the exception of the opening for access, the safety barrier shall be designed so that in at least one direction the clear space between two adjacent retaining elements (e.g. bands, filler bars) is either ≤ 5 mm or is at least 60 mm and not more than 75 mm when tested in accordance with 5.3 of EN 747-2:2012+A1:2015. | <p>PASS</p> |



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| <p>EN 747-1:2012+A1:2015, 4.1.5</p> | <p>Ladder or other means of access</p> <ul style="list-style-type: none"> - The ladder or other means of access shall be either vertical or shall have a positive inclination towards the upper bed. - The distance from the floor to the upper surface of the first tread shall not exceed 400 mm. The distance between the upper surfaces of two successive treads shall be (250 ± 50) mm. - The distance between the upper surfaces of the treads shall be equal with a tolerance of ± 5 mm. - The distance between the top tread and the point of access shall not be more than 500 mm. - The clear distance between two successive treads shall be at least 200 mm. - The usable width of the treads shall be at least 300 mm. - The front edges of all treads shall lie on a straight line within ± 20 mm. - The gap between any tread and any part of the bed frame shall be: <ul style="list-style-type: none"> a) less than 7 mm; or b) at least 12 mm but not more than 25 mm; or c) at least 60 mm but not more than 75 mm; or d) at least 200 mm. - The effective step depth shall be at least 90 mm. - Frame parts of the bed, situated in the vicinity of treads, shall not interfere with the usable area of the tread. | <p>PASS</p> |
| <p>EN 747-1:2012+A1:2015, 4.2</p> | <p>Strength of ladder or other means of access: Attachment, deflection and strength</p> <p>The bed shall be provided with a means of access which shall not break, become detached or deform permanently by more than 5 mm when tested in accordance with 5.6 of EN 747-2:2012+A1:2015.</p> | <p>PASS</p> |
| <p>EN 747-1:2012+A1:2015, 4.3</p> | <p>Strength of frame and fastenings</p> <p>The frame and structural fastenings shall not be damaged or malfunction; nor shall any part detach when tested in accordance with 5.4.2 and 5.5 of EN 747-2:2012+A1:2015.</p> | <p>PASS</p> |
| <p>EN 747-1:2012+A1:2015, 4.4</p> | <p>Stability</p> <p>When tested in accordance with 5.7 of EN 747-2:2012+A1:2015, the bed shall not overturn.</p> | <p>PASS</p> |
| <p>EN 747-1:2012+A1:2015, 4.5</p> | <p>Fastening of the upper bed to the lower bed</p> <p>The upper bed shall be connected to the lower bed in such a manner that it does not disconnect when tested in accordance with 5.8 of EN 747-2:2012+A1:2015.</p> | <p>PASS</p> |



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|---------------------------------|---|--------------|
| <p>EN 747-1:2012+A1:2015, 5</p> | <p>Instructions for use</p> <ul style="list-style-type: none"> - All beds which claim compliance with this standard shall be provided with instructions for use in the official language(s) of the country where the bed is sold. The instructions shall be headed: IMPORTANT – READ CAREFULLY – RETAIN FOR FUTURE REFERENCE - The instructions for use shall include at least the following information: <ul style="list-style-type: none"> a) WARNING "High beds and the upper bed of bunk beds are not suitable for children under six years due to the risk of injury from falls"; b) WARNING "Bunk beds and high beds can present a serious risk of injury from strangulation if not used correctly. Never attach or hang items to any part of the bunk bed that are not designed to be used with the bed, for example, but not limited to ropes, strings, cords, hooks, belts and bags"; c) WARNING "Children can become trapped between the bed and the wall, a roof pitch, the ceiling, adjoining pieces of furniture (e.g. cupboards) and the like. To avoid risk of serious injury the distance between the top safety barrier and the adjoining structure shall not exceed 75 mm or shall be more than 230 mm"; d) WARNING Do not use the bunk bed/high bed if any structural part is broken or missing; e) always follow the manufacturer's instructions; f) the recommended size of the mattress(es); g) a statement that ventilation of the room is necessary in order to keep the humidity low and to prevent mould in and around the bed; h) all bunk beds and high beds intended to be assembled by other than the manufacturer or his/her representative shall include assembly instructions including a list of the parts supplied and details of any tools required to assemble the bed; i) instructions regarding positioning and connection of the means of access; j) the maximum thickness of the mattress (see 4.1.4) as well as information regarding the mattress maximum thickness marking; k) a statement to check regularly that all assembly fastenings are properly tightened; l) the number and year of this European Standard. | <p>PASS</p> |



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| Test | Test Description and Requirements | Test Results |
|--------------------------|---|--------------|
| EN 747-1:2012+A1:2015, 6 | <p>Marking</p> <p>All beds which claim compliance with this standard shall be clearly and permanently marked with the following information:</p> <ul style="list-style-type: none"> - Name, registered trade name or registered trade mark of either the manufacturer, distributor or retailer; - Maximum thickness of the mattress to be used with the bed. This can be in the form of text, a line on the bed at the correct height, or by other means. - either a text or a pictogram visible when in use as follows: <ul style="list-style-type: none"> a) Text on high beds: This high bed is not suitable for children under six years; or b) Text on each upper bed: This upper bed is not suitable for children under six years c) Pictogram at least 15 mm x 15 mm - Number and year of this European Standard. | PASS |

Remark:

1. Sample Size: 1965mm L x 1260mm W x 1603mm H

Sample photo(s):



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End of Report



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