Test Report Number: SZHH02220498

Applicant: GIGACLOUD TECHNOLOGY JAPAN CO., LTD
LANDBOAT HACHIOJI 2F, 2969-16 ISHIKAWACHO,
HACHIOJI, TOKYO 192-0032

Date: Aug 07, 2026

Attn: GIGACLOUD TECHNOLOGY JAPAN CO., LTD

Sample Description:

One (1) set of submitted sample said to be :

Item Name	:	**Metal bed 97*195cm.**
Item No.	:	**N511P545628.**
Country of Origin	:	China.
Country of Destination	:	Japan.
Date Sample Received	:	Jul 15, 2026 & Jul 31, 2026.
Testing Period	:	Jul 15, 2026 – Aug 06, 2026.



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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Conclusion:

Tested Sample	Standard	Result
Submitted Sample	EN 747-1:2024 Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd
Xiamen Branch





Rachel L. Guo
Vice President

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1 Safety, Strength and Durability Requirements for Bunk Beds and High Beds

As per EN 747-1:2024 Furniture – Bunk beds and high beds – Part 1: Safety, strength and durability requirements & EN 747-2:2024 Furniture – Bunk beds and high beds – Part 2: Test methods, the submitted sample was subjected to the following tests.

Number of samples tested: One (1) piece.

Executive summary:

Clause	Testing items / Requirements	Result
1	Scope	--
2	Normative references	--
3	Terms and definitions	--
4	Safety requirements	--
4.1	Construction	--
4.1.1	General When the bed is fully assembled, 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. There shall be no clothes hooks or similar items more than 600 mm from the floor. If the lowest point of the vertically protruding parts are above 600 mm from the floor, they shall either a) have an uninterrupted minimum horizontal dimension of 300 mm in at least one direction without any other vertical protrusion (see Figure 1 a), or b) have an uninterrupted vertical dimension of at least 600 mm measured from the highest adjacent part (see Figure 1 b), or c) where the largest dimension is 50 mm or more (see Figure 1), 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 (see Figure 1 c), 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 (see Figure 1) of parts (see Figure 1 d). It shall not be possible to dismantle the bed or its components without the use of a tool.	P

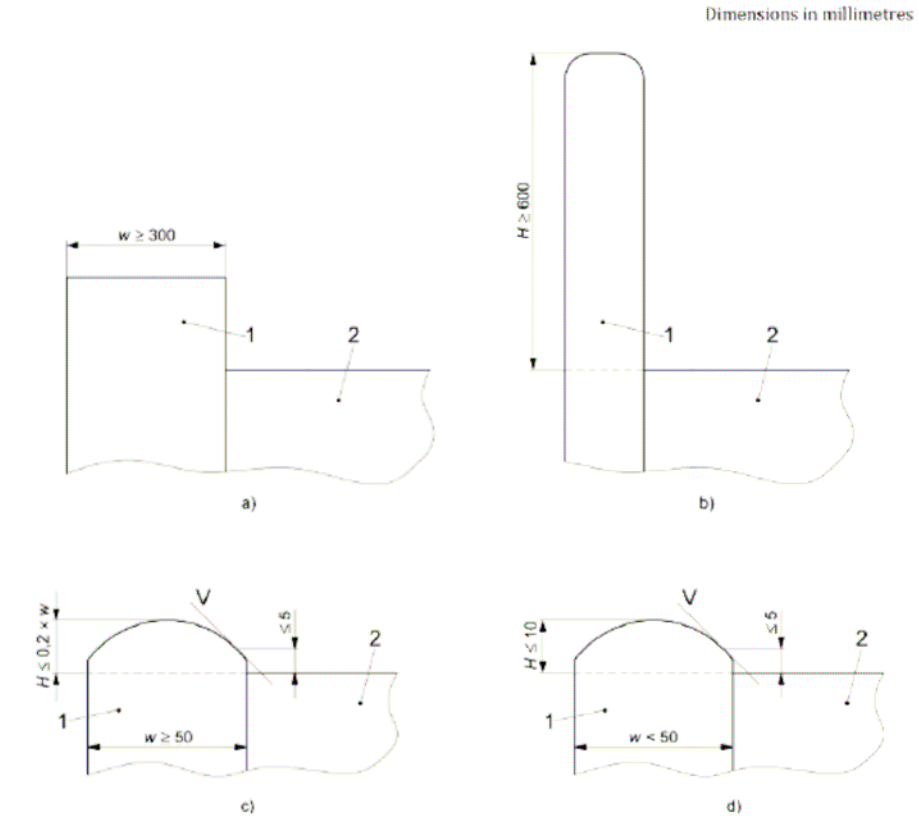
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Clause	Testing items / Requirements	Result
	The dimensional requirements in this clause apply both before and after testing without re-tightening.  **Key** 1 vertically protruding part 2 highest adjacent part *w* width of protruding part *H* height of protruding part V 45° angle to the horizontal **Figure 1 — Examples of a vertically protruding part**	
4.1.2	Accessible holes, gaps and openings	--
4.1.2.1	General There shall be no accessible completely bound openings in rigid material with a diameter/width greater than 7 mm and less than 12 mm, unless the depth is less than 10 mm or unless the shape assessment probe (BS EN 747-2:2024, 5.2.2) enters when tested according to 6.3.1 of BS EN 747-2:2024. Additionally, accessible completely bound openings in bed bases, safety barriers, and treads shall fulfil the requirements specified in the respective clauses, i.e. 4.1.3, 4.1.4 and 4.1.5.	P
4.1.2.2	Head entrapment on the outside of the bunk bed/high bed	P

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	The following requirements apply only to openings where the lowest part is 600 mm or more from the floor. Partially bound openings, and V and irregular shaped openings shall be constructed so that: a) portion B of the template shall not enter the opening to the full thickness of the template when tested according to 6.3.2 of BS EN 747-2:2024; or b) the apex of portion A of the template shall contact the base of the opening when tested according to 6.3.2 of BS EN 747-2:2024.	
4.1.3	Bed base(s)	--
4.1.3.1	Dimensional requirements For bunk beds, the distance between the upper surface of the bed base of the lower bed and any part of the underside of the bed base of the top bed shall be at least 750 mm.	P
4.1.3.2	Gaps and openings Gaps adjacent to the inner surfaces of the side and end rails (see Figure 2) shall be less than 25 mm. For beds where the bed base is an independent component, which is fitted between the side and end rails, the gap between the base and the side and end rails, shall be less than 25 mm when tested according to 6.3.1 of BS EN 747-2:2024. For beds, where the side and/or end rails are an integral part of the bed base, e.g. where slats are mounted directly into the side/and or end rails, or where a slatted bed base is supported by a load bearing component fixed to the side and/or end rails, there shall be no gaps greater than 25 mm directly adjacent to the side and end rails. These designs shall be tested according to 6.3.1 of BS EN 747-2:2024. All gaps between bed base components, (e.g. slats, mesh) shall not exceed 75 mm when measured, according to 6.3.1 of BS EN 747-2:2024.	P

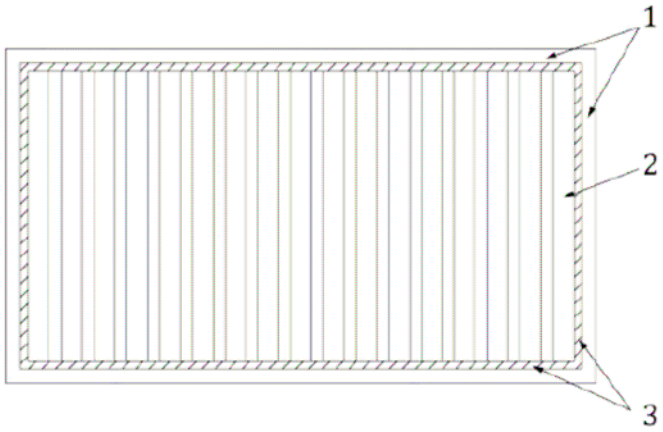
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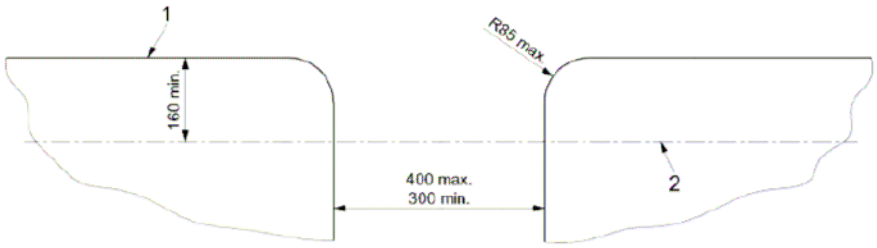
Tests Conducted

Clause	Testing items / Requirements	Result
	 Key 1 bed frame (side and end rails) 2 bed base (slat) 3 gaps between bed base and bed frame **Figure 2 — Illustration of zone in which 25 mm gaps are not permitted**	
4.1.3.3	Ventilation The bed base shall allow ventilation. This requirement is fulfilled if there is a minimum ventilation area of 35 cm^2 distributed across the bed base (e.g. 8 holes with a diameter of 24 mm in a solid bed base, gaps between slats). The ventilation shall be in more than one location. The openings shall fulfil the requirements in 4.1.2.	P
4.1.3.4	Structural integrity The bed shall have means (e.g. fastening) of preventing the side rails from bending outwards. This requirement is fulfilled if the bed base(s) and/or its elements do not break or become detached when tested with the horizontal outwards force according to 6.4.3 of BS EN 747-2:2024. When tested according to 6.4.2.1, 6.4.2.2 and 6.4.2.3 of BS EN 747-2:2024, the bed base and/or its elements shall not break or become detached.	P
4.1.4	Safety barriers around upper beds	--
4.1.4.1	General requirements Any upper bed shall be equipped with a continuous safety barrier all around the bed with the following exceptions to facilitate access and egress: - a single opening in the barrier leading directly to the means of access is permitted on the long side of the bed, or - a single opening in the barrier leading directly to an access platform conforming	P

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Clause	Testing items / Requirements	Result
	to 4.1.5.5 is permitted on any side of the bed. When the bed is intended for use only in non-domestic settings, the structure of the building can act as a safety barrier, provided that the bed is fastened to it according to the manufacturer's instructions.	
4.1.4.2	Dimensional requirements 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. The measurement shall be made from the maximum mattress thickness mark (see Figure 3) to the upper edge of the safety barriers. 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 in the safety barrier shall have a width between 300 mm and 400 mm from the maximum mattress thickness mark to at least 160 mm above it (see Figure 3). Dimensions in millimetres  Key 1 safety barrier 2 maximum mattress thickness mark **Figure 3 — Opening in the top safety barrier – Example** With the exception of the means of access, 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 or shall be more than 230 mm (see Figure 4).	P

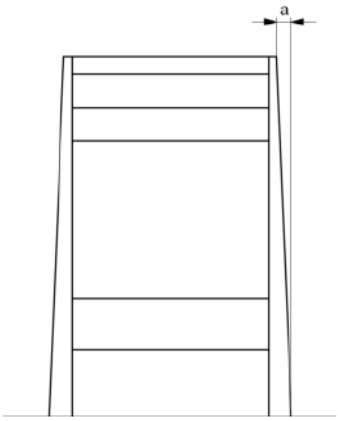
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Clause	Testing items / Requirements	Result
	 **Key** Range a < 55 mm or a > 230 mm **Figure 4 — Distance between the top safety barrier and the vertical projection** With the exception of the opening for access, the safety barrier shall be designed so that in at least one direction the clear space between two adjacent retaining elements (e.g. bands, filler bars) is eithers 7 mm or is at least 60 mm and not more than 75 mm when tested according to 6.3.1 of BS EN 747-2:2024.	
4.1.4.3	Gaps and openings Gaps between the ends of the safety barrier and the bed end structures shall not exceed 7 mm, when tested according to 6.3.1 of BS EN 747-2:2024.	P
4.1.4.4	Structural integrity Safety barriers shall not become damaged or loosened when tested according to 6.4.3 of BS EN 747-2:2024.	P
4.1.5	Means of access	--
4.1.5.1	General The upper bed shall have at least one separate means of access. If the upper bed has more than one means of access, the horizontal distance between the two means of access shall be more than 500 mm. If there is no opening for access in the safety barrier the distance between the top tread or upper surface of the access platform and the top of the safety barrier shall not be more than 500 mm. The bed frame of any upper bed is not considered to be a tread. There shall be no components, e.g. drawers, shelves, flaps and doors, that interfere with the usable area of the treads.	P
4.1.5.2	Gaps and openings When tested according to 6.3.1 of BS EN 747-2:2024, the gap between the means	P

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	of access and any part of the bed frame shall be: 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.	
4.1.5.3	Ladders The ladder shall either be vertical or shall be inclined towards the upper bed or the access platform (see 4.1.4.1). If there is an opening for access in the safety barrier, the distance between the top tread and the highest point of the opening shall not be more than 500 mm. The distance from the floor to the upper surface of the first tread shall not exceed 400 mm. The vertical 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 treads shall be horizontal in width within ± 3°. 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. With the exception of the frame of any upper bed, the bed frame can be used as a tread as long as the requirements in 4.1.5.2 are fulfilled. The effective step depth shall be measured without the mattress in place and shall be at least 90 mm (see Figure 5).	P

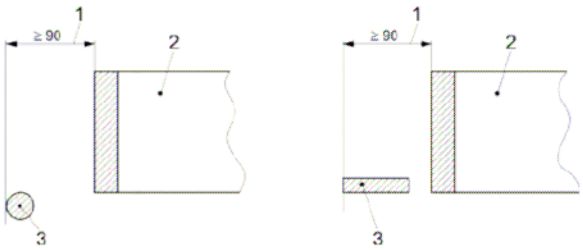
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	Dimensions in millimetres  Key 1 step depth 2 frame part or any vertical element 3 tread **Figure 5 — Gaps and step depth - Example of construction**	
4.1.5.4	Stairs and handrails	--
4.1.5.4.1	General requirements The uppermost tread of stairs is considered to be the access platform (see 4.1.5.5 and Figure 6).	NA

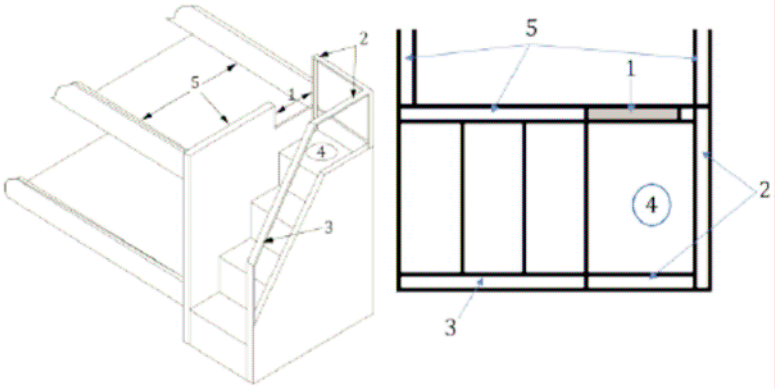
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Tests Conducted

Clause	Testing items / Requirements	Result



Key
1 opening in safety barrier around bed
2 platform barrier
3 handrail
4 access platform
5 safety barrier around bed

Figure 6 — Example of upper bed with access platform and stairs

A handrail shall be provided on the side of the stairs not adjacent to the bed. If the stairs are not adjacent to the bed, there shall be handrails on both sides.

The handrail shall commence at the lowest tread and continue to the safety barrier around the access platform or the bed.

Any gaps in or below the handrail shall conform with the requirements of 4.1.7 (a)

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	and (b). The front of each tread shall be vertically above, or extended beyond, the back of each tread below, so that, when viewed from above, no gap is visible.	
4.1.5.4.2	Dimensional requirements The handrail shall be not less than 600 mm and not more than 850 mm above the standing surface. The width of the handrail shall not exceed 60 mm. The vertical distance between the upper surfaces of two successive treads shall be (250 ± 50) mm. The clear distance between two successive treads shall be at least 200 mm. The distance between the upper surfaces of the treads shall be equal with a tolerance of ± 5 mm. The treads shall be horizontal in both depth and width within ±3°. The usable width of the treads shall be at least 450 mm. The front edges of all treads shall lie on a straight line within 20 mm. The minimum depth of each tread shall be 200 mm.	NA
4.1.5.4.3	Structural integrity When tested according to BS EN 747-2:2024, 6.4.5.5, the handrails shall not break or detach.	NA
4.1.5.5	Additional requirements for access platforms	--
4.1.5.5.1	General requirements The access platform shall be secured to the bunk bed/ high bed structure and shall not be able to be detached from the structure without the use of a tool. The access platform shall have a minimum width of at least the usable tread width and the depth shall be at least the width of the opening for access to the sleeping surface (see Figure 6). The access platform shall be vertically in line with the opening for access to the sleeping surface (see Figure 6 a)). With the exception of the side attached to the bed and the opening for the means of access to the access platform, it shall be fitted with continuous barriers. If the access platform is at a short end of the bed, the direction of the means of access shall be perpendicular to the direction of access to the bed through the opening (see Figure 6 a))	NA

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4.1.5.5.2	Dimensional requirements If there is an opening for access in the safety barrier, the vertical distance between the upper surface of the access platform and the maximum mattress thickness mark shall not be more than 500 mm. The height of the platform barriers shall be at least 600 mm above the upper surface of the access platform.	NA
4.1.5.5.3	Gaps and openings The gaps in the access platform barriers shall conform with the requirements of 4.1.7 (a) and (b).	NA
4.1.5.5.4	Structural integrity The access platform barriers shall not become damaged or loosened when tested with horizontal outward static load and downwards static load according to 6.4.6.2 of BS EN 747-2:2024. The access platform frame and structural fastenings shall not become damaged or loosened when tested with downward static load and impact test according to 6.4.6.3 and 6.4.6.4 of BS EN 747-2:2024.	NA
4.1.6	Shear and squeeze points	--
4.1.6.1	General Drawers, doors and flaps are excluded from this requirement.	--
4.1.6.2	Shear and squeeze points when setting up and folding If 4.1.6.3 or 4.1.6.4 are not applicable, shear and squeeze points that are created only when setting up or folding are permitted.	NA
4.1.6.3	Shear and squeeze points under the influence of powered mechanisms Where powered or spring-loaded mechanisms are used, the distance between two accessible parts moving relative to each other shall always be greater than 18 mm or smaller than 7 mm.	NA
4.1.6.4	Shear and squeeze points during use There shall be no accessible shear and squeeze points which close to less than 18 mm unless they are always less than 7 mm. This test shall be performed before and during the last load application according to relevant tests in BS EN 747-2:2024, 6.4 to 6.6.	P
4.1.7	All other accessible holes, gaps or openings All other accessible holes, gaps or openings not covered in 4.1.2 to 4.1.6 shall be either: a) at least 12 mm but not more than 25 mm, when tested according to 6.3.1 of BS EN 747-2:2024; or b) at least 60 mm but not more than 75 mm, when tested according to 6.3.1 of BS EN 747-2:2024; or	P

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Test Report Number: SZHH02220498

Tests Conducted

Clause	Testing items / Requirements	Result
	c) at least 200 mm.	
4.2	Strength of means of access: attachment, deflection and strength An upper 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 according to 6.4.5.1 to 6.4.5.4 of BS EN 747-2:2024.	P
4.3	Strength of frame and fastenings Regardless of the manufacturer's instructions the tests according to 6.4.4 of BS EN 747-2:2024 are applicable to all beds which can be free standing. When tested, the frame and structural fastenings shall not be damaged or malfunction; nor shall any part detach.	P
4.4	Stability Regardless of the manufacturer's instructions the stability test is applicable to all beds which can be freestanding. When tested according to 6.5 of BS EN 747-2:2024, the bed shall not overturn. If the product overturns, the product shall be supplied with wall attachment device(s), be visibly and permanently marked in accordance with 5.1 e), and the Warning sentences given in 5.2 e) and 5.3 d) shall be provided.	P
4.5	Fastening of the higher bed to the lower bed For bunk beds, the higher bed shall be connected to the lower bed in such a manner that it is not separated after testing according to 6.6 of BS EN 747-2:2024.	NA
5	Product information	--
5.1	Marking All beds shall be clearly and permanently marked with the following information: a) name or trademark of the manufacturer or importer; b) 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; c) any bed with a bed base higher than 600mm shall be marked with either the text or pictogram visible when in use as follows: This bed is not suitable for children under six years. Pictogram at least 25 mm x 25 mm: see Figure 7.	P

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	 **Figure 7 — Example of pictogram** d) number and year of this European Standard: " BS EN 747-1:2024"; e) if applicable, the marking WARNING "This product must be attached to a wall or building structure".	
5.2	Instructions for use All beds 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: The word WARNING can be given at the top of a list of warnings. Alternative wording is permitted provided the meaning is complete and identical. a) If the product is a bunk bed: **WARNING** "The upper bed is not suitable for children under six years due to the risk of injury from falls"; b) If the product is a high bed: **WARNING** "This bed is not suitable for children under six years due to the risk of injury from falls"; c) For bunk beds and high beds: **WARNING** "Bunk beds / 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 / high bed that are not designed to be used with the bed, for example, but not limited to ropes, strings, cords, hooks, belts and bags"; **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 must not exceed 75 mm or must be more than 230 mm"; **WARNING** "Do not use this bunk bed / high bed if any structural part is broken or missing"; d) If the product is fitted with a platform; **WARNING** "Always ensure the platform and the ladder / stairs are permanently attached to this bunk bed before use" e) If the product is required to be attached to a structure of the building or fails the	P

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	requirement in 4.4 the following warning: **WARNING** "This product must be attached to a wall or building structure" f) Always follow the manufacturer's instructions; g) The recommended size (length, width and thickness) of the mattress(es); h) 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; i) For bunk beds/high beds capable of being assembled or disassembled, assembly instructions including a list of the parts supplied and details of any tools required to assemble the bed; j) Instructions regarding positioning and connection of the means of access; k) The maximum thickness of the mattress (see 4.1.4) as well as information regarding the mattress maximum thickness marking; l) A statement to check regularly that all assembly fastenings are properly tightened; m) The number and year of this European Standard: "BS EN 747-1:2024"; n) Name and/or trademark of the manufacturer or importer and the respective European address.	
5.3	Purchase information Purchase information shall be available at the point of sale and shall contain the following: a) name and/or trademark of the manufacturer or importer and the respective European address; b) a statement or a pictogram to inform that the high/upper bed is not suitable for children under six years (see Figure 7); c) if not supplied with the product, the recommended size (length, width and thickness) of the mattresses; d) if the product is required to be attached to a structure of the building or fails the requirement in 4.4 the following warning: WARNING "This product must be attached to a wall or building structure" NOTE: If the product is sold through internet, the point of sale is the web page where the product is sold.	P

Abbreviation: P = Pass; NA = Not Applicable; NR = Not Requested by the Applicant

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End of report

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*The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8:09/2019-(Non-binary acceptance based on guard band **w** = **U**) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results. Full details of our agreed decision rules and the associated risk can be viewed: https://www.intertek.com.cn/diypage/upload/SZ-AP15-HLS-QA.pdf.*

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