



TEST REPORT

Report No. 010124050057

DATED: 29 MAY 2024

Client : ZHIN SHENG FURNITURE SDN BHD
LOT 3315, JALAN BYRAM,
14300 NIBONG TEBAL, PULAU PINANG

Buyer : DECOBUS HANDLE GMBH

Sample Description : HIGH SLEEPER BED

SKU No. : /

Model / Style : 8322-ST

Production Date : MAY 2024

Age Grade : /

Manufacturer : /

Country of Origin : MALAYSIA

Country of Destination : GERMANY

Test Sample Received : RECEIVED ON 17/05/2024

Test Period : FROM 17/05/2024 TO 28/05/2024

TEST REQUESTED	CONCLUSION	REMARK
BS EN 747-1:2024 – BUNK BEDS AND HIGH BEDS	PASS	/

Remark(s):

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council.

For technical enquiries or any other concerns,
please contact:

GIC TESTING & INSPECTION SERVICES PTE LTD

Tel: +65 6741 2260

Email: services.sg@gicgrp.com

PREPARED BY:

WONG KOK LEONG

Laboratory Supervisor

APPROVED BY:

SUZEN CHONG

Senior Vice President

GIC Testing & Inspection Services Pte Ltd

158 Kallang Way #08-01
Singapore 349245





Report No. 010124050057

DATED: 29 MAY 2024

SAMPLE PHOTOS



LABEL PHOTO**8322-ST HIGH SLEEPER BED**

Distributed by : DECOBUS HANDEL GMBH
Ritscherstrasse 11,
21244 Buchholz i.d.N
17660890046

Name Of Producer: Manufactured in Malaysia
Manufacturing Batch: May 2024

ATTENTION

This childrens bed has been tested by an
independent laboratory and is in compliance
with BS EN747-1: 2024, BS EN747-2: 2024 -
Standard Consumer Safety Specification For
Bunk Beds

WARNING: Not suitable for children under 6 years.



ARTWORK PACKAGING

	P A01 T 1000	
BEDI 1 - OP 4 BEDI 1 - OP 4	Recommended Mattress Size: 90cm x 200cm with a depth of no more than 17.6cm 832Z-ST HIGH SLEEPER BED Distributed by : DICKSON HANDELL GAMBIH Ritschevstrasse 11, 21244 Buchholz i.d.N 17660890046 Name Of Producer: Manufactured in Malaysia Manufacturing Batch: May 2024 ATTENTION This children's bed has been tested by an independent laboratory and is in compliance with BS EN747-1: 2024, BS EN747-2: 2024 - Standard Consumer Safety Specification For Bunk Beds. WARNING: Not suitable for children under 6 years.	BEDI 1 - OP 4 BEDI 1 - OP 4
	HIGH SLEEPER BED 1 OF 4	



TEST RESULTS:

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
EN 747-2:2024 Clause 4.1	Preliminary preparation	C (See note IV)
4	Safety requirements	
4.1	Construction	
4.1.1	General 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 600mm from the floor If the lowest point of vertically protruding parts are above 600mm from the floor, they shall either: 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 NA (See note II) PASS PASS
4.1.2	Accessible holes gaps and opening	
4.1.2.1	General There shall be no accessible completely bound openings in rigid material with a diameter/width greater than 7mm and less than 12mm unless the depth is less than 10mm or unless the shape assessment probe enters when tested according to 6.3.1 of 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, 4.1.3, 4.1.4 and 4.1.5	PASS PASS
4.1.2.2	Head entrapment on the outside of the bunk bed/high bed The following requirements apply only to openings, where the lowest part is 600mm or more from the floor. Partially bound, 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 in accordance with 6.3.2 of EN747-2:2024; or b) the apex of portion A of the template shall contact the base of the opening when tested in accordance with 6.3.2 of EN747-2:2024.	NA (See note II)



TEST RESULTS: (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
4.1.3	Bed base(s)	
4.1.3.1	<u>Dimensional requirements</u> 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 750mm.	NA (See note II)
4.1.3.2	<u>Gaps and openings</u> Gaps adjacent to the inner surface of the side and end rails shall be less than 25mm.	PASS
	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 25mm when tested according to 6.3.1 of EN 747-2:2024.	PASS
	For beds where the side and/or end rails are 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 25mm directly adjacent to the side and end rails. The design shall be tested according to 6.3.1 of EN 747-2:2024.	PASS
	All gaps between bed base components, (e.g. slats, mesh) shall not exceed 75 mm when measured in accordance with 6.3.1 of EN 747-2:2024.	PASS
4.1.3.3	<u>Ventilation</u> The bed base shall allow ventilation	PASS
	This requirement is fulfilled if there is a minimum ventilation area of 35cm ² distributed across the bed base. (e.g. 8holes with a diameter of 24mm in a solid bed base, gap between slats). The ventilation shall be in more than one location. The openings shall be fulfil the requirement 4.1.2.	PASS
4.1.3.4	<u>Structural Integrity</u> The bed base 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 EN 747-2:2024.	PASS
	When tested according to 6.4.2.1, 6.4.2.2, and 6.4.2.3 of EN 747-2:2024, the bed base and/or its elements shall not break or become detached.	PASS
4.1.4	Safety barriers around upper beds	
4.1.4.1	<u>General requirements</u> Any upper bunk bed shall be equipped with continuous safety barriers all around the bed, with the following exceptions to facilitate access and egress. - A single bed 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 to 4.1.5.5 is permitted on any side of the bed	PASS
	When the bed is intended for use only in non-domestic settings, the structure of the building can act as a safety barrier, provided the bed is fastened to its according to manufacturer's instruction.	NA (See note II)
4.1.4.2	<u>Dimensional requirements</u> The distance between the upper edge of the safety barriers and the upper surface of the bed base shall be at least 260 mm.	PASS
	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 (see 5.1 b) and 5.2 k)). The measurement shall be made from maximum mattress thickness mark. (see figure 3) to the upper edge of the safety barriers.	PASS
	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 (see 5.1b) to at least 160 mm above it(see figure 3).	PASS



TEST RESULTS: (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
4.1.4.2	With the exception of the means of access, the horizontal distance between the outside of the top safety barrier and vertical projection of the outermost point of the legs/posts/panels, shall not exceed 55mm or shall be more than 230mm (see figure 4).	PASS
	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 (eg. bands, filler bars) is either $\leq 7\text{mm}$ or is at least 60 mm and not more than 75 mm when tested in according to 6.3.1 of EN 747-2:2024.	PASS
4.1.4.3	Gaps and openings Gaps between the end of safety barrier and the bed structures shall not exceed 7mm, when tested according to 6.3.1 of EN 747-2:2024.	PASS
4.1.4.4	Structural integrity Safety barriers shall not become damaged or loosened when tested according to 6.4.3 of EN 747-2:2024.	PASS
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 two means of access shall be more than 500mm.	PASS
	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 500mm, the bed frame of any upper bed is not considered to be tread.	PASS
	There shall no components, e.g drawers, shelves, flaps and doors, that interfere with the usable area of treads.	PASS
4.1.5.2	Gaps and openings When tested according to 6.3.1 of EN 747-2:2024, the gap between the means of access and any part of the bed frame shall be: a) Less than 7mm: or b) At least 12mm but not more than 25mm: or c) At least 60mm but not more than 75mm: or d) At least 200mm.	PASS
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).	PASS
	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 500mm.	PASS
	The distance from the floor to the upper surface of the first tread shall not exceed 400 mm.	PASS
	The vertical distance between the upper surfaces of two successive treads shall be (250 ± 50) mm.	PASS
	The distance between the upper surfaces of the treads shall be equal with a tolerance of ± 5 mm.	PASS
	The tread shall be horizontal in width within $\pm 3^\circ$	PASS
	The clear distance between two successive treads shall be at least 200 mm.	PASS
	The usable width of the treads shall be at least 300 mm.	PASS
	The front edges of all treads shall lie on a straight line within ± 20 mm.	PASS
	With and exception of the frame of any upper bed, the bed frame can be used as a tread as long as the requirement in 4.1.5.2 are fulfilled.	PASS
	The effective step depth shall be measured without the mattress in place and shall be at least 90mm (see figure 5)	PASS



TEST RESULT(S): (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
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). 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 safety barrier around the access platform or the bed. Any gaps in or below the handrails shall conform with the requirement of 4.1.7(a) 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.	NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II)
4.1.5.4.2	Dimensional requirements The handrail shall be not less than 600mm and not more than 850mm above the standing surface. The width of the handrail shall not exceed 60mm. 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 tread shall be horizontal in 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 shall be 200mm	NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II) NA (See note II)
4.1.5.4.3	Structural integrity When tested according to EN 747-2:2024, 6.4.5.5, the handrails shall not break or detach	NA (See note II)
4.1.5.5	Additional requirement 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 the tool. The access platform shall have a minimum width of at least the suable treads width and the depth shall be at least the width of the opening for access to the sleeping surfaces (see Figure 6) The access platform shall be vertically in line with opening for access to the sleeping surfaces (see Figure 6a) 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 6a).	NA (See note II) NA (See note II) NA (See note II) NA (See note II)
4.1.5.5.2	Dimensional requirements If the is an opening for access in the safety barrier, the vertical distance between upper surface of the access platform and maximum matters thickness mark shall not be more than 500mm. The height of the platform barrier shall be at least 600mm above upper surface of the access platform	NA (See note II) NA (See note II)



TEST RESULT(S): (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
4.1.5.5.3	Gaps and openings The gap in the access platform barriers shall conform with the requirement of 4.1.7(a) and (b).	NA (See note II)
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 EN 747-2:2024.	NA (See note II)
	The access platform frame and structural fastening shall not become damaged or loosened when tested with downward static load and impact test static load according to 6.4.6.3 and 6.4.6.4 of EN 747-2:2024.	NA (See note II)
4.1.6	Shear and squeeze points	
4.1.6.1	General Drawers, doors, and flaps area excluded from this requirement.	-
4.1.6.2	Shear and squeeze points when setting up and folding If 4.1.6.3 and 4.1.6.4 are not applicable, shear and squeeze points that area created only when setting up or folding are permitted.	NA (See note II)
4.1.6.3	Shear and squeeze points under influence of powered mechanism When powered or spring-loaded mechanism are used, the distance between two accessible parts moving relative to each other shall always be greater than 18mm or smaller than 7mm.	NA (See note II)
4.1.6.4	Shear and squeeze points during use The shall no accessible shear and squeeze points which close to less than 18mm unless they are always less than 7mm. This test shall be performed before and during the last load application according to relevant test in EN 747-2:2024, 6.4 to 6.6.	PASS
4.1.7	All other accessible holes, gaps, or openings When all other accessible holes, gaps or openings not covered in 4.1.2 to 4.1.6 shall be either: a) At least 12mm but not more than 25mm, when tested according to 6.3.1 of EN 747-2:2024; or b) At least 60mm but not more than 75mm, when tested according to 6.3.1 of EN 747-2:2024; or c) At least 200mm.	PASS
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 in accordance with 6.4.5.1 to 6.4.5.4 of EN 747-2:2024.	PASS
4.3	Strength of frame and fastenings Regardless of the manufacturer's instruction the tests according 6.4.4 of 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.	PASS
4.4	Stability Regardless of the manufacturer's instruction the stability test is applicable to all beds which can be free standing. When tested according to 6.5 of 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.	PASS
4.5	Fastening of the higher bed to the lower bed The bunk bed, 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 EN 747-2:2024	NA (See note II)

TEST RESULT(S): (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
5	Product Information	
5.1	Marking All bed shall be clearly and permanently marked with the following information: a) Name or trademark of 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 then 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 25mm x 25mm: see Figure 7  Figure 7 — Example of pictogram d) Number and year of this European Standard: "EN 747-1:2024"; e) If applicable, the marking WARNING "This product must be attached to a wall or building structure".	- PASS PASS PASS NA (See note II)
5.2	Instruction for use All beds shall be provided with instruction 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 "The 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 bed / high bed can be present a serious risk of injury from strangulation if not used correctly. Never attach or hang items to any part of bunk bed / high bed that are designated to be used with the bed, for example, but not limited to ropes, strings, cords, hooks, belt 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 th top safety barrier and the adjoining structure must not exceed 75mm or must be more than 230mm"; WARNING "Do not use this bunk bed / high bed if any structural part is broken or missing";	PASS - NA (See note II) PASS PASS



TEST RESULT(S): (Continued)

BS EN 747-1:2024 – Bunk Beds and High Beds

Clause	Requirement	Result
	d) If the product fitted with a platform; WARNING "Always ensure the platform and the ladder / stairs are permanently attached to this bunk bed before use";	NA (See note II)
	e) If the product is required to be attached to structure of the building or fail the requirement in 4.4 the following warning; WARNING "This product must be attached to a wall or building structure";	NA (See note II)
	f) Always follow the manufacture instructions;	PASS
	g) The recommended size (length, width, and thickness) of the mattress(es);	PASS
	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;	PASS
	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 required to assembled to the bed;	PASS
	j) Instruction regarding positioning and connection of means of access;	PASS
	k) The maximum thickness of the mattress (see 4.1.4) as well as information regarding the mattress maximum thickness marking;	PASS
	l) A statement to check regularly that all fastening are properly tightened;	PASS
	m) The number and year of this European Standard: "EN 747-1:2024";	PASS
	n) Name and / or trademark of the manufacturer or importer and the respective European address.	PASS
5.3	Purchase information Purchase information shall be available at the point of sale and shall contain the following:	PASS
	a) Name and / or trademark of the manufacturer or importer and the respective European address.	PASS
	b) A statement or pictogram to inform that the high/ upper bed is not suitable for children under six years (see Figure 7)	PASS
	c) If not supplied with the product, the recommend size (length, width and thickness) of the mattress;	PASS
	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.	NA (See note II)

COMMENTS:

Note I NC = Not Conducted. Preconditioning was not conducted prior to the tests. The submitted sample for requested testing was not stored in indoor ambient conditions for 24 hours prior to testing as per client's request.

Note II NA = Not Applicable.

Note III NR = Not Requested

Note IV C = Conducted



Report No. 010124050057

DATED: 29 MAY 2024

END OF REPORT

This report sets forth our findings solely with respect to the test samples identified herein. The results in this report are not representative of the quality or characteristics of the lot/batch from which a test sample was taken or any similar or identical product unless specifically and expressly noted. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client, GIC Testing & Inspection Services Pte. Ltd. therefore assumes no responsibility for the accuracy of information on the brand name, model/ style number, consignment or any information supplied. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.

GICG - ENABLING TRUST IN A CHANGING WORLD