

TEST REPORT

Sep. 30, 2022

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ISSUE DATE:

PAGE:

LAB LOCATION: **VIET NAM REPORT NUMBER:** 76122-090377

Applicant:	MINH HANH CO., LTD		
Address:	LOT B2-36, ROAD NO. 2, TAN DONG HIEP B INDUSTRIAL ZONE, DI AN TOWN, BINH DUONG PROVINCE, VIETNAM		
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Copy To:	_		

OVERALL RATING	
PASS	<u>X</u>
FAIL	-
DATA	-

Sample Information			
Sample Description	TWIN OVER FULL WITH SHELVES AND STORAGE STAIRCASE		
Style Number	-		
SKU	WF296634/WF2966	335/WF296636	
Vendor Name	MINH HANH CO., L	TD	
Vendor Style Number	Number YMX		
Quantity	-	PO Number	-
Buyer's Name	GIGACLOUD	Manufacturer	MINH HANH CO., LTD
Country of Origin	VIETNAM	Country of Destination	USA
Code Number	-	Dept./Key#	-
Reference item/ style number	-	Color	GRAY + WHITE + ESPRESSO
Date of Submission	Sep. 21, 2022	Test Performance Dates	Sep. 21, 2022
Testing Status			
Pre-Shipment Lead Test		Test for Protocol	-
Retest		Previous Report No.: -	



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Sample Photos



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For and on behalf of

Eurofins MTS Consumer Product Testing Vietnam Ltd.

HARRY VU

HL. DEPARTMENT SUPERVISOR





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EXECUTIVE SUMMARY:

TESTING RESULT SUMMARY						
Test Property	PASS	FAIL	DATA	COMMENTS		
Total Lead Content in Surface Coating – 16 CFR 1303	Х	-	-	-		
Total Lead Content in Substrate	X	-	-	-		
ASTM F1427 – 21e1, Standard Consumer Safety Specification for Bunk Beds	Х	-	-	-		
16 CFR Part 1213 Safety Standard For Entrapment Hazards In Bunk Beds	Х	-	-	-		
16 CFR Part 1513 Requirements For Bunk Beds	Х	-	-	-		
Sharp Point, Sharp Edges	Х	-	-	-		





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COMPONENT BREAKDOWN LIST:

Test Item	Component Description
01	Silvery metal (Long - Allen head bolt)
02	Silvery metal (Medium - Allen head bolt) (Same item 1)
03	Silvery metal (Short - Allen head bolt) (Same item 1)
04	Silvery metal (Long - Allen head screw) (Same item 1)
05	Silvery metal (Medium - Allen head screw) (Same item 1)
06	Silvery metal (Short - Allen head screw) (Same item 1)
07	Silvery metal (Cross dowel) (Same item 1)
08	Silvery metal (Metal plate) (Same item 1)
09	Silvery metal (Hinge) (Same item 1)
10	Silvery metal (Pin - Hinge) (Same item 1)
11	Silvery metal (Hinge) (Same item 1)
12	Silvery metal with golden plating (Big - Screw)
13	Silvery metal with golden plating (Long - Screw) (Same item 12)
14	Silvery metal with golden plating (Medium - Screw) (Same item 12)
15	Silvery metal with golden plating (Short - Screw) (Same item 12)
16	Silvery metal with golden plating (Bracket) (Same item 12)
17	Dark brown plastic (Door catcher)
18	Silvery metal (Door catcher) (Same item 1)
19	Plywood (Bunk bed)
20	MDF wood (Bunk bed)
21	Natural (Bunk bed)
22	White coating on wood (Color panel)
23	Grey coating on wood (Color panel)
24	Espresso coating on wood (Color panel)

Remark:

- (1) Test Result was transferred from report #76122-060941 Revised 1.
- (2) Test Result was transferred from report #76122-070380
- (3) Test Result was transferred from report #76122-060942.





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EXHIBIT BREAKDOWN:







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TEST RESULT(S):

1. <u>Total Lead Content in Paint or Similar Surface Coating – U.S. CPSC 16 CFR 1303 and U.S. Consumer Product Safety Improvement Act of 2008 (CPSIA), Title I, Section 101</u>

Test Method: CPSC-CH-E1003-09.1. Analysis was performed by AAS/ ICP-OES/ ICP-MS.

Took Itom	Total Lead	(Pb) (ppm)	Canalusian
Test Item	Result	Limit	Conclusion
22 ⁽¹⁾	ND	90	PASS
23 ⁽¹⁾ +24 ⁽¹⁾	ND	90	PASS

Note: ND = Not Detected (Lab reporting limit: 10 ppm)

ppm = part per million = mg/kg = milligram per kilogram

2. <u>Total Lead Content in Accessible Substrate – U.S. Consumer Product Safety Improvement Act of</u> 2008 (CPSIA), Title I, Section 101

Test Method:

1) Metal components: CPSC-CH-E1001-08.3. Analysis was performed by AAS/ ICP-OES/ ICP-MS.

 Non-metal materials including plastics, glass and leather material: CPSC-CH-E1002-08.3. Analysis was performed by AAS/ ICP-OES/ ICP-MS.

Test Item	Total Lead	(Pb) (ppm)	Conclusion	
restitem	Result	Limit	Conclusion	
01 ⁽¹⁾ +13 ⁽¹⁾	ND	100	PASS	
12 ⁽³⁾	ND	100	PASS	
18 ⁽²⁾	ND	100	PASS	
19 ⁽¹⁾ +20 ⁽¹⁾	17	100	PASS	
21	NA	100	NA	

Note: ND = Not Detected (Lab reporting limit: 10 ppm)

ppm = part per million = mg/kg = milligram per kilogram





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3. ASTM F1427 - 21e1 STANDARD CONSUMER SAFETY SPECIFICATION FOR BUNK BEDS

Clause	Requirement	Rating	Notes		
4 Perfor	4 Performance Requirements:				
4.1 Vertic	4.1 Vertical Protrusions:				
4.1.1	All vertical protrusions along the top inside surfaces of any individual component (including but not limited to bed end structures and guard rails) of the upper bunk shall not extend more than 3/16 in. (4.8 mm) above the upper edge of the adjacent surface. Ladder stiles (uprights) shall not extend more than 3/16 in. (4.8 mm) above the upper edge of the adjacent surface.	Р	✓ Vertical protrusion:0.13in. Position: corner post. □ Ladder stiles:in.		
4.1.2	Any cap used along the top surface of the upper bunk shall not have a vertical protrusion greater than 3/16 in. (4.8 mm) at the edge of the protrusion above the upper edge of the adjacent surface. If the cap is flush with or overhangs the edge of the corner post or other vertical protrusion, the maximum vertical protrusion shall not exceed 3/16 in. (4.8 mm). The cap shall have a maximum height of no more than 20% of the width or diameter of the cap. At no point shall the cap overhang the post more than 1/16 in. (2 mm). The cap shall fit flush with the top of the corner post.	NA	☐ H:in. W:in. (H _{max} = 20%W) ☑ No cap		
4.2	Fit of Top Bed to Bottom Bed:	NA	Record:in.		
	The bed post shall be designed so that the minimum height of lift to allow horizontal disengagement of the top bed from the bottom bed shall be 1.25in., or a fastening mechanism may be used that will prevent the disengagement of the top bed from the bottom bed.		☐ A fastening mechanism provided☑ Bed post no separate		
4.3	Mattress and Foundation Size and Fit (Top Bed):	Р			
	There shall be no gaps between the interior bed structure and the edges of the mattress and foundation that will permit complete passage of the wedge block when tested in accordance with 5.2.				
4.4	Mattress Size and Fit (Lower Foundation):	Р			
	There shall be no space, between the edge of the manufacturer's recommended mattress and the interior boundary of any component(s) attached to lower bunk (for example, ladders, book shelves, desk), greater than 1.88 in. (48 mm) and smaller than 9 in. (229 mm), when tested in accordance with 5.3.				
4.5 Uppe	r and Lower Foundation Support Systems:				
4.5.1	The foundation support systems shall confine the horizontal position of the mattress and the foundation and shall prohibit the mattress and foundation from falling when the mattress or foundation is manipulated.	Р			



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Clause	Requirement	Rating	Notes
4.5.2	In the event cross-members are utilized, a minimum of two per bed are required. If more than two cross-members are utilized, they shall be spaced so that the distance between adjacent cross-members or between the cross-members and the bed end structures will not permit complete passage of the wedge block or will allow complete passage of both the wedge block and the 9 in. (229 mm) diameter rigid sphere when tested in accordance with 5.9.		Upper foundation: -Slat to slat: 3_inSlat to Bed end structure: 2-1/4_in. Lower foundation: -Slat to slat: 3_inSlat to Bed end structure: 2-1/4_in.
4.5.3	The foundation support system shall not be capable of being dislodged without the release of positive fastening devices or the use of hand tools.	Р	
4.5.4	The foundation support system shall not fail when tested in accordance with 5.4.	Р	
4.6 Side	Rails:		
4.6.1	Bolt-On Side Rails, that attach at their ends or on their side to the bed post, are secured at each end by2 bolts with a minimum size of M6 in. diameter/ ISO/ANSI size M6 (REQ: >0.25 in. diameter or M6)	Р	If it is Hook-On side rail, NA
	If it is wood bed, these bolts are spaced a minimum of:1- <u>7/8"in.</u> apart on their center. (REQ: ≥1.5in.)		
	When the bolts are fully tightened in the assembled bed, no more than 0.25 in . of thread is exposed? $\underline{\text{No}}$		
4.6.2	Hook-On Side Rails, securely attached to the bed post. Hook-on attachments shall require an additional action other than an upwards force to disengage.	NA	If it is Bolt-On side rail, NA
4.6.3	Side Rail Attachments:	Р	
	There shall be no structural failure of bed side rail fastening systems when tested in accordance with 5.5.		
4.7 Guar	drails:		
4.7.1	The underside of the foundation is: 50-1/2" in. from the floor. (REQ: over 30 inches.) How many guardrail(s) accompany the bed: 2 (REQ: 2 guardrails.)	Р	
4.7.2	Any intentional release of fastening device is present for guardrails so that they cannot be removed unless forces are applied sequentially in different direction? Yes	Р	
4.7.3	The upper edge of the guardrails is: 7 in. above the sleeping surface when a mattress of the thickness that is the maximum specified by the manufacturer's instruction is used on the bed. ($REQ: \geq 5in.$)	Р	
4.7.4	With no mattress on the bed, there shall be no openings in the rigid bed structure below the lower edge of any opening of the guardrail that would permit complete passage of the wedge block when tested in accordance with 5.6.	Р	



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4.7.5	The guardrail terminate before reaching the bed end structure, the distance between either end of the guardrail and the bed end structures in the same plane when measured at a point 5 in. above the sleeping surface as established by the maximum mattress thickness specified by the manufacturer:in. $(R: \leq 15in.)$ The second guardrail terminate before reaching the bed end structure, the distance between either end of the guardrail and the bed end structure when measured horizontally between the bed end structure and the nearest point on the guardrail:in. $(R: \leq 0.22in.)$	NA	
4.8 Bed \$	Structure:		
4.8.1	The total distance between the two posts at the head of the upper bunk: $\underline{52-3/4}$ in. The distance between the two posts at the head of the upper bunk at 5 in above the sleeping surface: $\underline{52-3/4}$ in. Percentage of that at the head: $\underline{100}$ % (R : $\geq 50\%$)	Р	
	The total distance between the two posts at the foot of the upper bunk: $\underline{52\text{-}3/4"}$ in. The distance between the two posts at the foot of the upper bunk at 5in above the sleeping surface: $\underline{37\text{-}3/4"}$ in. Percentage of that at the foot: $\underline{71.8}$ % (R : \geq 50%)		
4.8.2	There shall be no openings in the rigid end structures of the upper bunk/bunks that will permit the free passage of the wedge block when tested in accordance with 5.7.1. This requirement shall apply only to those portions of the bed end structure that are above the foundation support system of the upper bunk/bunks.	Р	
4.8.3	When tested in accordance with 5.7.2, there shall be no openings within the entire boundary of the lower bunk that will permit free passage of the wedge block, unless they are large enough to permit the free passage of a 9 in. (229 mm) diameter rigid sphere. This requirement does not apply to openings that are below the level of the lower bunk foundation support system. This requirement shall apply to that portion of the bed structure that is between the level of the lower bunk foundation support system and the level of the upper bunk foundation support system. Such openings include, but are not limited to, bed end structures, foundation, ladders, desks, or bookshelf components, or a combination thereof, as offered with the bed for purchase and designed to be attached to the bed structure.	P	
4.8.4	When tested in accordance with 5.7.2.3 and 5.7.2.4, all portions of the boundary of any opening of the entire lower bunk boundary that permits free passage of a 9 in. (229 mm) diameter rigid sphere also must conform to the neck entrapment requirement.	Р	



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4.9 Ladd	4.9 Ladders:				
4.9.1	Type of ladder:	Р	☐ Not Provided		
	incorporated as part of the bed structure		□ No Ladder		
	Is the ladder attached in a manner that prevents inadvertent disengagement, repositioning, or tilting while in use? <u>Yes</u>				
4.9.2	Are there openings between ladder structures that allow complete passage of the wedge block? No	Р	_L a _A		
	If Yes, does the 9 in. diameter rigid sphere pass freely through the openings? Yes/No				
	Width of the ladder measured from the inside of the stiles:14- in. (R: >10in.) (a)				
	Vertical spacing of ladder steps measured between steps: in. (R: ≤12in.; if bed structure are used as ladders, vertical spacing ≤16in.) (b)				
	Vertical spacing of ladder steps measured from the floor to the first step:in. (R: <12in.; if bed structure are used as ladders, vertical spacing <16in.)				
4.9.3	Are there openings between the ladder step and the upper bunk boundary that allow complete passage of the wedge block? No	Р			
	If Yes, does the 9 in. diameter rigid sphere pass freely through the openings? Yes/No				
4.9.4	For ladders attached to the side of the lower bed and for which mattress height is above the side rail, there shall be no gaps between the edge of the manufacturers recommended mattress and the interior vertical stile between 1.88 in. (48 mm) and 9 in. (229 mm) when tested in accordance with 5.3.	NA	Record:in.		
4.10	Metal Beds: Frame and Fastenings:	NA			
	There shall be no separation of any of the attachments of the foundation support system to the end structures of the bed when tested in accordance with 5.8.1.1 and 5.8.2.				



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Clause	Requirement	Rating	Notes
5 Test M	ethods:		•
5.1	Is the bed assembled in accordance with the provided instructions? Yes	Р	
5.2 Mattr	ess and Foundation Size and Fit—Upper Foundation:		•
5.2.1- 5.2.3	Is any gap produced in the horizontal plane between the interior bed structure and the edges of the mattress and foundation as per section 5.2.2? <u>Yes</u>	Р	If F, attach photo and locate the failure gap(s):
	If Yes , does the wedge block pass through the gap(s) as per section 4.3 ? <u>No</u>		
5.3	Mattress Size and Fit—Lower Foundation	Р	
	Are there any space between the edge of the manufacturer's recommended mattress and the interior boundary of any attached component is between 1.88 in. (48 mm) and 9 in. (229 mm)? No		
5.4	Foundation Support System	Р	
	Does the foundation support system remain in place for a minimum of 5 min as per section 4.5.4? Yes		
5.5	Side Rails	Р	
	Apply force at Corner 1 of the bed? <u>Yes</u>		
	Apply force at Corner 2 of the bed? Yes		
	Apply force at Corner 3 of the bed? Yes		
	Apply force at Corner 4 of the bed? <u>Yes</u>		
	Is there no structural failure of bed side rail fastening systems as per section 4.6.3? <u>Yes</u>		
5.6	Guardrails	Р	
	Is there no opening in the rigid bed structure below the lower edge of any opening of the guardrail that would permit complete passage of wedge block as per section 4.7.4? Yes		
5.7 Bed I	End Structures:		•
5.7.1	Is there no opening in the rigid end structures of the upper bunk that will permit the free passage of the wedge block as per section 4.8.2 <u>Yes</u>	Р	
	(This requirement shall apply only to that portion of the bed end structure that is above the foundation support system of the upper bunk.)		
5.7.2 Lov	ver Bunk Boundaries:		1
5.7.2.1	Without a mattress or foundation on the lower bunk foundation support, place the wedge block into any opening, tapered side first, in the most adverse orientation. Determine if the wedge block can pass freely through the opening. If the wedge block passes freely through the opening, determine if a 9 in. (229 mm) diameter rigid sphere can pass freely through the opening.	Р	



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5.7.2.2	With the manufacturer's recommended mattress and foundation size in place, on the lower bunk foundation support, repeat the test in 5.7.2.1.	Р	
5.7.2.3- 5.7.2.4	Is any portion of the boundary of any opening of the lower bunk end structure that permits free passage of a 9 in. diameter rigid sphere? Yes If Yes, is there simultaneous contact between the boundary of the opening and both sides of the A section of the template? Yes If Yes, does the neck portion of the B section of the template completely enter the opening (passes 0.75in. or more beyond the points previously contacted by the A section of the template)? No	P	
	If Yes , does its lower boundary slope downward less than 45° for the whole distance from the narrowest part of the opening the neck can reach to the part of the opening as per section 4.8.4? * <u>Yes/No/NA</u>		
5.8 Meta	l Beds- Frame and Fastenings:		
5.8.1- 5.8.1.1	Number of cycle/	NA	
5.8.2	Apply force at each point of attachment of the foundation support system to the end structure. Is there no separation of any attachments of the foundation support system to the end structure of the bed as per section 4.10? Yes/ No	NA	
5.9	Are cross-members utilized? <u>Yes</u> If Yes, Number of cross-members per bed: Upper bunk bed14 & Lower bunk bed14 (R: ≥2) If More than 2, does any gap(s) between adjacent cross-members or between the cross-members and the bed end structure permit complete passage of the wedge block? <u>No</u> If Yes, does the gap(s) also permit complete passage of the 9 in. diameter rigid sphere? <u>Yes/No</u> This requirement applies to both the upper and lower bunk foundation support systems.	P	



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Clause	Requirement	Rating	Notes			
5.10 Peri	5.10 Permanency of Labels and Warnings					
5.10.1- 5.10.2	It is a <u>Paper Label</u> Label on the bed	Р				
	Is it a permanent label as tested per section 5.10.1 or 5.10.2? Yes					
5.10.3	Is the label attached by a seam? Yes/ No	NA				
	Does it detach when subjected to a 15-lbf. Pull force applied as per section 5.10.3? <u>Yes/ No</u>					
5.10.4	Can the tape test defined in Test Method B, Cross –Cut Tape Test of Test Methods D 3359 apply on all the warnings label? Yes/ No	NA				
	Is the printing in the area tested legible or attached after being subjected to this test? Yes/ No					
5.10.4. 4	Shall the non-paper label during an attempt to remove it without the aid of tools or solvents, not be removed or not fit entirely within the small parts cylinder defined in 16 CFR 1501 if it can be removed? Yes/No	NA				
6 Markin	g and Labeling:		,			
6.1	Each bunk bed set shall have label or marking to indicate the following: Name, City, State, & Zip code (1) of the manufacturer, distributor, or seller. Model number (2), the Month & Year (3) of manufacture	Р	(1): GIGALOUD TECHNOLOGY(USA) INC 18961 ARENTH AVENUE, CITY OF INDUSTRY, CA, 91748 (2): WF296634/WF296635/W F296636 (3):10/2022			
6.2	Warnings					





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Clause	Requi	rement	Rating	Notes
6.2.1.1	If the foundation is not an integ warning label shown in either attached permanently to the ins upper bunk in a location that ca but that may be covered by the	Р		
	⚠ warning	△ WARNING		
	To help prevent serious or fatal injuries from entrapment or falls: Never allow a child under 6 years on upper bunk. Use only mattress which is 74"-75" long and 371/2"-381/2" wide on upper bunk. Ensure thickness of mattress and foundation combined does not exceed and mattress is at least 5" below upper edge of guardrails. Use guardrails on both sides of upper bunk. Prohibit horseplay on or under bed(s). Prohibit more than one person on upper bunk. Use ladder for entering and leaving upper bunk. STRANGULATION HAZARD — Never attach or hang items to any part of the bunk bed that are not designed for use with the bed; for example, but not limited to, hooks, belts, and jumpropes. DO NOT REMOVE THIS LABEL	To help prevent serious or fatal injuries from entrapment or fails: Never allow a child under 6 years on upper bunk. Use only mattress meeting the following specifications on upper bunk: Bed Type Length Standard Length 74"-75" 371½,"-381½" Extra Long 79"-80" 371½,"-381½" Ensure thickness of mattress and foundation combined does not exceed 'and mattress is at least 5" below upper edge of guardrails. Use guardrails on both sides of upper bunk. Prohibit horseplay on or under bed(s). Prohibit horseplay on or under bed(s). Prohibit more than one person on upper bunk. STRANGULATION HAZARD — Never attach or hang items to any part of the bunk bed that are not designed for use with the bed; for example, but not limited to, hooks, belts, and jumpropes. DO NOT REMOVE THIS LABEL		
6.2.1.2		I part of the bed structure, the	NA	
0.22	warning label shown in either attached permanently to the ins	Fig. 10(c) or Fig. 10(d) shall be ide of a bed end structure of the annot be covered by the bedding		
	⚠ WARNING	⚠ WARNING		
	To help prevent serious or fatal injuries from entrapment or falls: Never allow a child under 6 years on upper bunk. Use only mattress which is 74"—75" long and 37½"—38½" wide on upper bunk. Ensure thickness of mattress does not exceed ———————————————————————————————————	To help prevent serious or fatal injuries from entrapment or falls: Never allow a child under 6 years on upper bunk. Use only mattress meeting the following specifications on upper bunk: Bed Type Length Width Standard Length 74"-75" 371/2"-381/2" Ensure thickness of mattress does not exceed "and mattress is at least 5" below upper edge of guardralis. Use guardralis on both sides of upper bunk. Prohibit horseplay on or under bed(\$). Prohibit more than one person on upper bunk. STRANGULATION HAZARD — Never attach or hang items to any part of the bunk bed that are not designed for use with the bed; for example, but not limited to, hooks, belts, and jumpropess.		
	(c)	(d)		





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Clause	Requirement	Rating	Notes
6.2.2	The height of the letters of the word "WARNING":0.26in. (R: >0.1875 in. (4.8 mm) and uppercase boldface type.)	Р	
	The height of the letters of the word "DO NOT REMOVE THIS LABEL":0.13in. (R: >0.125 in. (3.175mm) and uppercase boldface type.)		
	The height of the words "To help prevent":0.13in. (R: >0.125 in. (3.175mm) and boldface type.)		
	The height of the remainder of the text in warning statement:0.13in. (R: >0.125 in.(3.175mm))		
	The label contains sizes appropriate to that mattress as defined in the ISPA Voluntary Dimensional Guideline for Bedding Products and Components. Yes		
	The label is attached to the inside of a bed end structure of the upper bunk. Yes		
	The label is not covered by the bedding. Yes (Exception: it may be covered by the placement of a pillow.)		
6.2.3	Do warnings, including applicable mattress dimensional specifications, appear on the carton containing bed ends on at least one face and one end? Yes	Р	
	The height of the letters:0.19in. (R: >0.1875 in.(4.8mm))		
6.3	Do the permanent labels (section 6.1) meet the requirement of section 5.10? Yes	Р	
	Do warning labels (section 6.2.1) applied to the bed meet the requirement of section 5.10? Yes		



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7 Instruc	ctional Literature					
7.1	Is the instruction provided with the bed? Yes	Р				
7.2	Are all parts necessary to assemble the bunk bed set listed? Yes Are the tools necessary for the bunk bed assembly listed as well? Yes	Р				
7.3	Does the assembly instruction containing detail diagram showing exactly how the bed should be assembled? Yes It contains the specific instructions pertaining to the following: 7.3.1 Bed end structures Yes Attachment of side rails	Р				
	7.3.2 Attachment of side rails Yes 7.3.3 Installation of the mattress/ foundation support system 7.3.4 Fit of upper bunk to lower bunk 7.3.5 Attachment of guardrail Yes 7.3.6 Attachment of ladder					
7.4	Is the size of the intended mattress clearly stated? Yes *Conventional Bedding term: other: TWIN/FULL *Dimensions for finished mattress: Upper bed: 74-75" (length) x 38-1/2" (width) Lower bed: 74-75" (length) x 53-1/2" (width) Is the maximum thickness of the mattress that will ensure conformance to the guardrail provision of section 4.7.3 stated? Yes	Р				
7.5	Is replacement parts information present? Yes	Р				
7.6	Does the instruction contain the Safety Warnings as per section 7.6.1-7.6.13? Yes	Р				
7.6.1	Follow the information on the warnings appearing on the upper bunk end structure and on the carton. Do not remove warning label from bed.	Р	✓ Provided☐ Not Provided			



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Clause	Requirement	Rating	Notes
7.6.2	Always use the recommended size mattresses or mattress supports, or both, to help prevent the likelihood of entrapment or falls.	Р	☑ Provided☐ Not Provided
7.6.3	Surface of mattress must be at least 5 in. (127 mm) below the upper edge of guardrails.	Р	☑ Provided☐ Not Provided
7.6.4	Do not allow children under 6 years of age to use the upper bunk.	Р	☑ Provided☐ Not Provided
7.6.5	Periodically check and ensure that the guardrail, ladder, and other components are in their proper position, free from damage, and that all connectors are tight.	Р	☑ Provided □ Not Provided
7.6.6	Do not allow horseplay on or under the bed and prohibit jumping on the bed.	Р	☑ Provided □ Not Provided
7.6.7	Always use the ladder for entering and leaving the upper bunk.	Р	☑ Provided □ Not Provided
7.6.8	Do not use substitute parts. Contact the manufacturer or dealer for replacement parts.	Р	☑ Provided □ Not Provided
7.6.9	Use of a night light may provide added safety precaution for a child using the upper bunk.	Р	☑ Provided☐ Not Provided
7.6.10	Always use guardrails on both long sides of the upper bunk. If the bunk bed will be placed next to the wall, the guardrail that runs the full length of the bed should be placed against the wall to prevent entrapment between the bed and wall.	Р	☑ Provided □ Not Provided
7.6.11	The use of water or sleep flotation mattresses is prohibited.	Р	☑ Provided □ Not Provided
7.6.12	STRANGULATION HAZARD—Never attach or hang items to any part of the bunk bed that are not designed for use with the bed; for example, but not limited to, hooks, belts and jump ropes.	Р	☑ Provided □ Not Provided
7.6.13	Keep these instructions for future reference.	Р	☑ Provided ☐ Not Provided

NOTE: P = Pass F = Fail NA = Not Applicable NR = Not Requested

NT = Not Tested





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4. 16 CFR Part 1213 Safety Standard For Entrapment Hazards In Bunk Beds

Clause	Requirement	Rating	Notes
1213.3	Requirements		
1213.3(a)	Guardrails		
	Any bunk bed shall provide at least two guardrails, at least one on each side of the bed, for each bed having the underside of its foundation more than 30 inches (760 mm) from the floor.	Р	
	One guardrail shall be continuous between each of the bed's end structures. "Continuous" means that any gap between the guardrail and end structure shall not exceed 0.22 inches (5.6mm) (so as to not cause a finger entrapment hazard for a child).	Р	
	The other guardrail may terminate before reaching the bed's end structures, providing there is no more than 15 inches (380mm) between either end of the guardrail and the nearest bed end structures.	Р	
	For bunk beds designed to have a ladder attached to one side of the bed, the continuous guardrail shall be on the other side of the bed.	Р	
	Guardrails shall be attached so that they cannot be removed without either intentionally releasing a fastening device or applying forces sequentially in different directions.	Р	
	The upper edge of the guardrails shall be no less than 5 inches (130 mm) above the top surface of the mattress when a mattress of the maximum thickness specified by the bed manufacturer's instructions is on the bed.	P	
	This requirement does not prohibit a wall-side guardrail that terminates in a quarter-circle bend and attaches to the side rail of the upper bunk foundation.	·	
	With no mattress on the bed, there shall be no openings in the structure between the lower edge of the uppermost member of the guardrail and the underside of the upper bunk's foundation that would permit passage of the wedge block of this part when tested in accordance with the procedure at §1213.4(a).	Р	
1213.3(b)	Bed end structures.		
	The upper edge of the upper bunk end structures shall be at least 5 inches (130 mm) above the top surface of the mattress for at least 50 percent of the distance between the two posts at the head and foot of the upper bunk when a mattress and foundation of the maximum thickness specified by the manufacturer's instructions is on the bed.	Р	
	With no mattress on the bed, there shall be no openings in the end structures above the foundation of the upper bunk that will permit the free passage of the wedge block when tested in accordance with the procedure at § 1213.4(b).	Р	



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Requirement	Rating	Notes
When tested in accordance with § 1213.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block, unless the openings are also large enough to permit the free passage of a 9 inch (230 mm) diameter rigid sphere.	Р	
All portions of the boundary of any opening required by §§ 1213.4(c)(1) and (2) to be probed by the wedge block, and that permits free passage of a 9-inch diameter sphere, must conform to the neck entrapment requirements of § 1213.4(c)(3).	Р	
Marking and labeling.		
There shall be a permanent label or marking on each bed stating the name and address (city, state, and zip code) of the manufacturer, distributor, or retailer; the model number; and the month and year of manufacture.	Р	
The following warning label shall be permanently attached to the inside of an upper bunk bed end structure in a location that cannot be covered by the bedding but that may be covered by the placement of a pillow.		
△ WARNING		
To help prevent serious or fatal injuries from entrapment or falls:		
Never allow a child under 6 years on upper bunk	Р	
Use only a mattress that is inches long and inches wide on upper bunk		
Ensure thickness of mattress and foundation combined does not exceed inches and that mattress surface is at least 5 inches below upper edge of guardrails		
DO NOT REMOVE THIS LABEL		
Instructions.	Р	
Instructions shall accompany each bunk bed set, and shall include the following information.		
Size of mattress and foundation.	Р	
The length and width of the intended mattress and foundation shall be clearly stated, either numerically or in conventional terms such as twin size, twin extra-long, etc. In addition, the maximum thickness of the mattress and foundation required for compliance with § 1213.3(a)(5) and (b)(1) shall be stated.		
Safety warnings The instructions shall provide the following safety warnings:	Р	
Use guardrails on both sides of the upper bunk.	Р	1
	When tested in accordance with § 1213.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block, unless the openings are also large enough to permit the free passage of a 9 inch (230 mm) diameter rigid sphere. All portions of the boundary of any opening required by §§ 1213.4(c)(1) and (2) to be probed by the wedge block, and that permits free passage of a 9-inch diameter sphere, must conform to the neck entrapment requirements of § 1213.4(c)(3). Marking and labeling. There shall be a permanent label or marking on each bed stating the name and address (city, state, and zip code) of the manufacturer, distributor, or retailer; the model number; and the month and year of manufacture: The following warning label shall be permanently attached to the inside of an upper bunk bed end structure in a location that cannot be covered by the bedding but that may be covered by the placement of a pillow. A WARNING To help prevent serious or fatal injuries from entrapment or falls: Never allow a child under 6 years on upper bunk Bensure thickness of mattress and foundation combined does not exceed inches and that mattress surface is at least 5 inches below upper edge of guardrails DO NOT REMOVE THIS LABEL Instructions. Instructions. Instructions shall accompany each bunk bed set, and shall include the following information. Size of mattress and foundation. The length and width of the intended mattress and foundation shall be clearly stated, either numerically or in conventional terms such as twin size, twin extra-long, etc. In addition, the maximum thickness of the mattress and foundation required for compliance with § 1213.3(a)(5) and (b)(1) shall be stated. Safety warnings The instructions shall provide the following safety warnings: Do not allow children under 6 years of age to use the upper bunk.	When tested in accordance with § 1213.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block, unless the openings are also large enough to permit the free passage of a 9 inch (230 mm) diameter rigid sphere. All portions of the boundary of any opening required by §§ 1213.4(c)(1) and (2) to be probed by the wedge block, and that permits free passage of a 9-inch diameter sphere, must conform to the neck entrapment requirements of § 1213.4(c)(3). Marking and labeling. There shall be a permanent label or marking on each bed stating the name and address (city, state, and zip code) of the manufacturer, distributor, or retailer; the model number; and the month and year of manufacture. The following warning label shall be permanently attached to the inside of an upper bunk bed end structure in a location that cannot be covered by the bedding but that may be covered by the placement of a pillow. MARNING To help prevent serious or fatal injuries from entrapment or falls: Never allow a child under 6 years on upper bunk Permanent thickness of mattress and foundation combined does not exceed inches and that mattress surface is at least 5 inches below upper edge of guardrails DO NOT REMOVE THIS LABEL Instructions. The length and width of the intended mattress and foundation shall be clearly stated, either numerically or in conventional terms such as twin size, twin size





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Clause	Requirement	Rating	Notes
	Prohibit more than one person on upper bunk.	Р	
	Use ladder for entering or leaving upper bunk.	Р	
	If the bunk bed will be placed next to a wall, the guardrail that runs the full length of the bed should be placed against the wall to prevent entrapment between the bed and the wall.	Р	
	This applies only to bunk beds without two full-length guardrails.		

NOTE: F = Fail NA = Not Applicable NR = Not Requested P = Pass

NT = Not Tested





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5. 16 CFR Part 1513-Requirements For Bunk Beds

Clause	Requirement	Rating	Notes
	quirements.		
(a) Guard (1)	Any bunk bed shall provide at least two guardrails, at least one on each side of the bed, for each bed having the underside of its foundation more than 30 inches (760 mm) from the floor.	Р	
(2)	One guardrail shall be continuous between each of the bed's end structures. "Continuous" means that any gap between the guardrail and end structure shall not exceed 0.22 inches (5.6 mm) (so as to not cause a finger entrapment hazard for a child).	Р	
(3)	The other guardrail may terminate before reaching the bed's end structures, providing there is no more than 15 inches (380 mm) between either end of the guardrail and the nearest bed end structure.	Р	
(4)	For bunk beds designed to have a ladder attached to one side of the bed, the continuous guardrail shall be on the other side of the bed.	Р	
(5)	Guardrails shall be attached so that they cannot be removed without either intentionally releasing a fastening device or applying forces sequentially in different directions.	Р	
(6)	The upper edge of the guardrails shall be no less than 5 inches (130 mm) above the top surface of the mattress when a mattress of the maximum thickness specified by the manufacturer's instructions is on the bed. This requirement does not prohibit a wall-side guardrail that terminates in a quartercircle bend and attaches to the side rail of the upper bunk foundation.	Р	
(7)	With no mattress on the bed, there shall be no openings in the structure between the lower edge of the uppermost member of the guardrail and the underside of the upper bunk's foundation that would permit passage of the wedge block shown in Figure 1 of this part when tested in accordance with the procedure at § 1513.4(a).	Р	
(b) Bed er	nd structures.		
(1)	The upper edge of the upper bunk end structures shall be at least 5 inches (130 mm) above the top surface of the mattress for at least 50 percent of the distance between the two posts at the head and foot of the upper bunk when a mattress and foundation of the maximum thickness specified by the manufacturer's instructions is on the bed.	Р	
(2)	With no mattress on the bed, there shall be no openings in the rigid end structures above the foundation of the upper bunk that will permit the free passage of the wedge block shown in Figure 1 when tested in accordance with the procedure at § 1513.4(b).	Р	
(3)	When tested in accordance with § 1513.4(c), there shall be no openings in the end structures between the underside of the foundation of the upper bunk and upper side of the foundation of the lower bunk that will permit the free passage of the wedge block shown in Figure 1, unless the openings arealso large enough to permit the free passage of a 9-inch (230-mm) diameter rigid sphere.	Р	



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Clause		Requirement	Rating	Notes
(4)	1513.4(c)(1) and and that permits	the boundary of any opening required by §§ I (2) to be probed by the wedge block of Figure 1, a free passage of a 9-inch diameter sphere, must eck entrapment requirements of § 1513.4(c)(3).	Р	
1513.5 Ma	arking and labelin	g		
(a)	the name and	permanent label or marking on each bed stating address (city, state, and zip code) of the stributor, or retailer; the model number; and the of manufacture.	Р	
inside of an u		arning label shall be permanently attached to the er bunk bed end structure in a location that cannot ne bedding but that may be covered by f a pillow.	Р	
		[△] WARNING		
	To help prevent	serious or fatal injuries from entrapment or falls:		
	Never allo	w a child under 6 years on upper bunk		
	Use only a wide on up	a mattress that is inches long and inches oper bunk		
	does not e	exceed inches and foundation combined exceed inches and that mattress surface is at thes below upper edge of guardrails		
		DO NOT REMOVE THIS LABEL		
1513.6 Ins	structions	Instructions shall accompany each bunk bed set information.	, and shall ir	l nclude the following
(a)	The length and v be clearly stated terms such as maximum thickr	and foundation. vidth of the intended mattress and foundation shall I, either numerically or in conventional twin size, twin extra-long, etc. In addition, the ness of the mattress and foundation required for § 1513.3 (a)(5) and (b)(1) of this part shall be	Р	
(b)	Safety warnings	s. The instructions shall provide the following		
(1)	Do not allow chi	Do not allow children under 6 years of age to use the upper bunk.		
(2)	Use guardrails	Use guardrails on both sides of the upper bunk.		
(3)	Prohibit horsepla	ay on or under beds.	Р	
(4)	Prohibit more th	an one person on upper bunk.	Р	
(5)	Use ladder for e	ntering or leaving upper bunk.	Р	





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Clause	Requirement	Rating	Notes
(6)	If the bunk bed will be placed next to a wall, the guardrail that runs the full length of the bed should be placed against the wall to prevent entrapment between the bed and the wall. (This applies only to bunk beds without two full-length guardrails.)	Р	

P = Pass NOTE: F = Fail NA = Not Applicable NR = Not Requested

NT = Not Tested

6. Sharp Point, Sharp Edges

TEST METHOD	TEST REQUIREMENT	RESULT
Hazardous sharp	There shall be no hazardous sharp edges as defined by	
edges (16 CFR	16 CFR 1500.49 before or after testing to this	PASS
1500.49)	specification	
Hazardous sharp point	There shall be no hazardous sharp points as defined by	
(16 CFR 1500.48)	16 CFR 1500.48 before or after testing to this	PASS
,	specification	



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Exhibit 7

WARNING: This product can expose You to Wood Dust a chemicals Known to the State of California to cause Cancer or birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov/furniture www.P65Warnings.ca.gov/wood

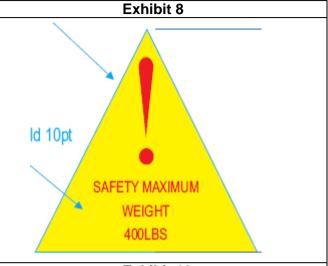


Exhibit 9

Exhibit 10

TO HELP PREVENT SERIOUS OR FATAL INJURIES FROM ENTRAPMENT OR FALLS:

- · Never allow a child under 6 years on upper bunk.
- · Use only mattress(es) meeting the following specifications on the upper bunk:

Bed Type Length Width Twin Standard 38 1/ 2 Full Standard

Ensure thickness of mattress and foundation combined does not exceed 6" and mattress is at least 5" below upper edge of guardrails

Use quardrails on both sides of upper bunk.

Prohibit horseplay on or under bed(s).

打單號碼 MS Đơn Đất Hản

Prohibit more than one person on upper bunk.

Use ladder for entering and leaving upper bunk.

STRANGULATION HAZARD - Never attach or hang items to any part of the bunk bed that are not designed for use with the bed example, but not limited to hooks, belts and jump ropes.

DO NOT REMOVE THIS LABEL

Exhibit 12

CÔNG TY TNHH KH GROUP

Exhibit 11

Model

WF296634/WF296635/WF296636 V882YMX20220913LE

Distributed by:

GIGACLOUD TECHNOLOGY(USA) INC 18961 ARENTH AVENUE, CITY OF INDUSTRY, CA, 91748 Manufactured:

10/2022

TSCA Title VI Compliant California 93120 phase 2 Compliant For Formaldehyde

MADE IN VIET NAM

1505*625*145 MÃ BẢNG GHI CHÚ MANUSA NE SONN MET 1971 I MOSET TOPOS NEN SONS EN DET SONS DES DES DE SONS SONS EN DE SONS DES DES DE SONS Important Import 10/2022 WF296634AAK MEAS: 59.25*24.60*5.70 INCH P.O. NO.: V882YMX20220913LE N.W: 105.82 LBS GW: 114.64 LBS MADE IN VIETNAM

Use only method in the second second

Eurofins MTS Consumer Product Testing Vietnam Ltd.

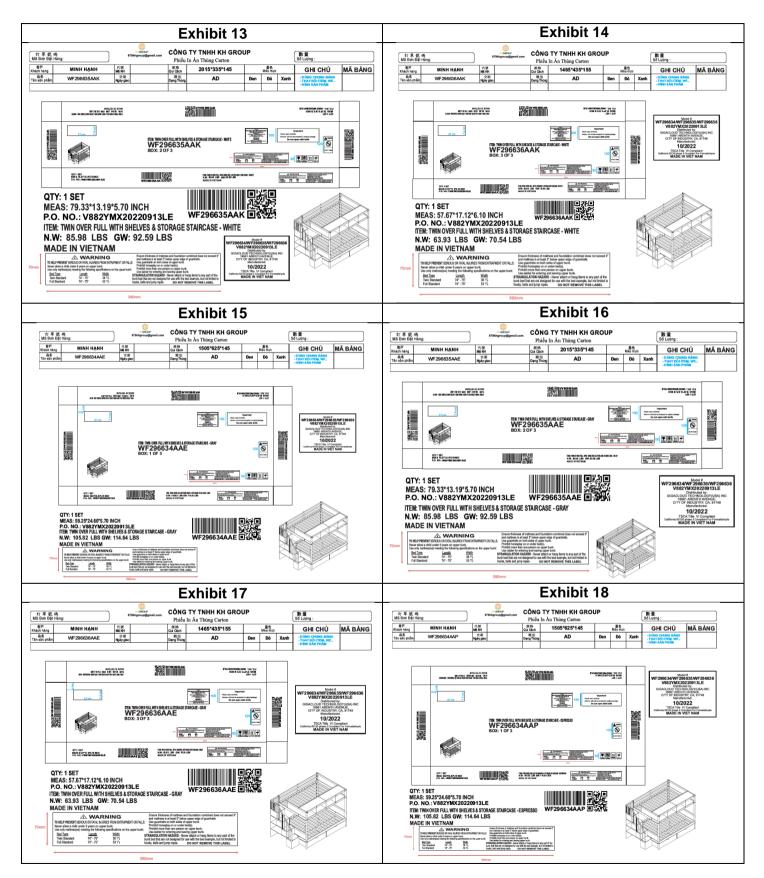
Lot II-12, Street 19/5A, Tan Binh Industrial Park, TayThanh Ward, Tan Phu District, HCM City, Vietnam Tel: (+84) 862896363 Fax: (+84) 862896262 Email: info@mtsvietnam.com.vn Website: www.mts-global.com



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Tel: (+84) 862896363 Fax: (+84) 862896262 Email: info@mtsvietnam.com.vn Website: www.mts-global.com

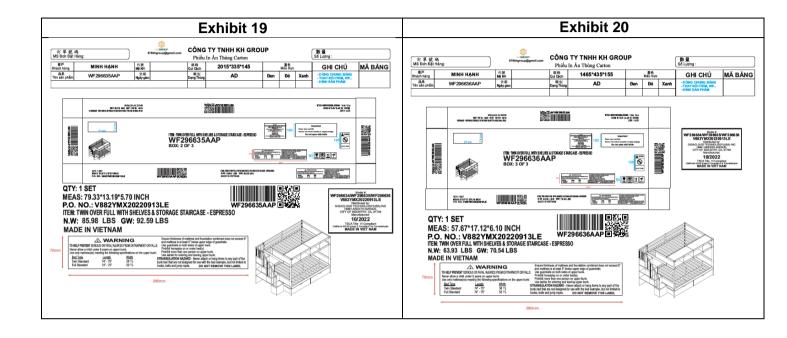




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NOTE:

If there is question or concern regarding the above results, please contact the appropriate lab person below:

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