



Technical Report: 96223160080
Date Received: NOVEMBER 12, 2022

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ZHIAO VIET NAM COMPANY LIMITED
PLOT NO. 713, MAP SHEET NO. 45, GROUP 5, KHANH TAN QUARTER, KHANH BINH WARD, TAN UYEN TOWN,
BINH DUONG PROVINCE, VIETNAM (POSTT CODE: 75412)

Sample Description:	LOFT BED	Sample Size:	01 PC
Vendor:	ZHIAO VIET NAM COMPANY LIMITED	VPN:	/
Manufacturer:	ZHIAO	SKN/SKU No.:	MF298235AAB & MF298236AAB
Buyer:	GIGACLOUD TECHNOLOGY(USA) INC	PO No.:	/
Agent:	/	Ref #:	/
Labeled Age Grade:	/	Country of Origin:	VIETNAM
Appropriate Age Grade:	/	Assortment No.:	/
Client Specified Age Grade:	/	Department No.:	/
Tested Age Grade:	/	Item#:	/
UPC Code:	/	Date of Production:	/
Phase of Production:	PRODUCTION	Model/Style#:	2203-US-LE-168
Color:	BLACK	Country of Destination:	USA
Program:	/		
Previous No:	N/A		

TEST PROPERTY	PASS	FAIL	DATA	N/A	Remark
CPSIA Total lead content in Surface Coating	X				
CPSIA Total Lead Content In Substrate Materials	X				
16 CFR 1213 Bunk Beds	X				
16 CFR 1513 Requirements for Bunk Beds	X				
ASTM F1427-21e1 Bunk Beds (Metal)	X				
ASTM F1148-21	X				
16 CFR 1500.48; 16 CFR 1500.49 (Modify), Sharp points and edges	X				



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Note(s):

- This report includes the test result(s) which was conducted & reviewed by Analytical department.

If there is any question regarding this report, please contact the following lab personnel:

Administrative inquiries, please contact:

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BUREAU VERITAS CONSUMER PRODUCTS SERVICES (VN) LTD.

TERRY NGUYEN

AUTHORIZED REPORT APPROVER – HARDLINE, TOYS & JUVENILE PRODUCTS DIVISION

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

Test Item(s)	Sample description/ Location	Material	Style(s)
I001	Black Coating/ Metal Frame	Coating	-
I002	Black Coating With Paper Veneer	Coating	-
I003	Brown Coating With Paper Veneer	Coating	-
I004	No Coating/ Hardware	-	-
I005	No Coating/ Tracking Label	-	-
I006	Particleboard	Wood	-
I007	Metal Frame	Metal	-
I008	Screw	Metal	-
I009	Bolt	Metal	-
I010	No Coating/ Warning Label	-	-
I011	Orange/ Black/ White Coating/ Warning Label Of Slide	Coating	-
I012	Yellow/ Red Coating/ Maximum Weight Label	Coating	-

TEST RESULT

Total Lead Content in Surface Coating:
 - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(a)(2) / United States Code of Federal Regulations (CFR), Title 16, Part 1303

Test Method : U. S. CPSC-CH-E1003-09.1 (February 25, 2011).

Maximum Allowable Limit :	90 mg/kg
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-	Unit	Result				
Test Item(s)	-	I001	I002	I003	I004	I005
Parameter	-	-	-	-	-	-
Total Lead (Pb)	mg/kg	ND	ND	ND	-	-
Conclusion	-	PASS	PASS	PASS	NA	NA

-	Unit	Result		
Test Item(s)	-	I010	I011	I012
Parameter	-	-	-	-
Total Lead (Pb)	mg/kg	-	ND	ND
Conclusion	-	NA	PASS	PASS

Note / Key :

ND = Not detected NA = Not applicable ">" = Greater than
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million
 Detection Limit (mg/kg) : 10

Remark :

- Component(s) in Test Item(s) may not able to be tested individually due to overlapping.



TEST RESULT

Total Lead Content in Substrate:
- United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method : U. S. CPSC Test Method CPSC-CH-E1001-08.3 (November 15, 2012) or U. S. CPSC Test Method CPSC-CH-E1002-08.3 (November 15, 2012).

Maximum Allowable Limit :		100 mg/kg			
-	Unit	Result			
Test Item(s)	-	I006	I007	I008	I009
Parameter	-	-	-	-	-
Total Lead (Pb)	mg/kg	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS

Note / Key :

ND = Not detected NA = Not applicable ">" = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10000 mg/kg = 1 % % = percent
Detection Limit (mg/kg) : 10

Remark :

- According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices; Final Rule, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.
 - According to Petition Requesting Exception from Lead Content Limits; Notice Granting Exception, exemption was granted to certain aluminum alloy on certain ride-on children's products containing up to 0.03 % lead weight.
-



REQUIREMENTS FOR BUNK BEDS (FHSA, Title 16, CFR, Part 1213 & 1513)

Section	Description	Results
1213.3 1513.3	Requirements	
1213.3(a) 1513.3(a)	Guardrails	
1213.3(a)(1) 1513.3(a)(1)	Two guardrails required if bed is > 30 inches from ground	M
1213.3(a)(2) 1513.3(a)(2)	One guardrail shall be continuous	M
1213.3(a)(3) 1513.3(a)(3)	No greater than 15 inches between either end	M
1213.3(a)(4) 1513.3(a)(4)	Bunk Beds with ladder, continuous guardrail on other side	M
1213.3(a)(5) 1513.3(a)(5)	Guardrails attached so they cannot be removed without releasing a device	M
1213.3(a)(6) 1513.3(a)(6)	The upper edge shall be no less than 5 inches above top surface	M
1213.3(a)(7) 1513.3(a)(7)	No openings in the structure between lower edge and underside	M
1213.3(b) 1513.3(b)	Bed End Structures	
1213.3(b)(1) 1513.3(b)(1)	The upper edge of end structure shall be at least 5 inches above mattress	M
1213.3(b)(2) 1513.3(b)(2)	No openings in the structure above foundation of the upper bunk that permits passage of the wedge block	M
1213.3(b)(3) 1513.3(b)(3)	Tested in accordance with Section 1213.4(c)	M
1213.3(b)(4) 1513.3(b)(4)	Neck entrapment requirements of Section 1213.4(c)(3)	M
1213.5 1513.5	Marking and Labeling	
1213.5(a) 1513.5(a)	Permanent label with name and address, model # and date code	M
1213.5(b) 1513.5(b)	Permanent Warning Label placement	M
1213.6 1513.6	Instructions	
1213.6(a) 1513.6(a)	Size of mattress and foundation	M
1213.6(b) 1513.6(b)	Safety Warning	-
1213.6(b)(1) 1513.6(b)(1)	Do not allow children under 6 years of age to use the upper bunk	M
1213.6(b)(2) 1513.6(b)(2)	Use guardrails on both sides of the upper bunk	M



REQUIREMENTS FOR BUNK BEDS (FHSA, Title 16, CFR, Part 1213 & 1513)

Section	Description	Results
1213.6(b)(3) 1513.6(b)(3)	Prohibit horseplay on or under beds	M
1213.6(b)(4) 1513.6(b)(4)	Prohibit more than one person on upper bunk	M
1213.6(b)(5) 1513.6(b)(5)	Use ladder for entering or leaving upper bunk	M
1213.6(b)(6) 1513.6(b)(6)	If the bed is placed against a wall, use full length guardrail along wall	M

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section

STANDARD CONSUMER SAFETY SPECIFICATION FOR BUNK BEDS (ASTM F1427-21e1)

Section	Requirement	Result
4	Performance Requirements	
4.1	Vertical Protrusions	-
4.1.1	Vertical protrusions along the top inside surface	M
4.1.2	Cap used along the top surface of upper bunk	NA
4.2	Fit of Top Bed to Bottom Bed	NA
4.3	Mattress and Foundation Size and Fit (Top Bed)	M
4.4	Mattress Size and Fit (Lower Foundation)	M
4.5	Upper and Lower Foundation Support Systems	-
4.5.1	Horizontal position of the mattress and the foundation	M
4.5.2	Utilized event cross-members	M
4.5.3	Release of positive fastening devices or use of hand tools	M
4.5.4	Static load for the foundation support system	M
4.6	Side Rails	-
4.6.1	Bolt-On Side Rails	NM
4.6.2	Hook-On Side Rails	NA
4.6.3	Side rail attachments	M
4.7	Guardrails	-
4.7.1	Presence of guardrails	M
4.7.2	Requirement of attachment	M
4.7.3	Requirement of height of the upper edge above the sleeping surface	M
4.7.4	Opening of the guardrail	M
4.7.5	Opening between the either end of the guardrail and the bed end structure	M
4.8	Bed Structure	-
4.8.1	The upper edge of the upper bunk end structures	M
4.8.2	Openings in the rigid end structures of the upper bunk	M
4.8.3	Openings in the end structures of the lower bunk	M
4.8.4	Neck entrapment requirement of all portions of the boundary of any opening of the lower bunk end structure	M
4.9	Ladders	-
4.9.1	Presence of ladder	M
4.9.2	Dimension requirement of ladder	M
4.9.3	Openings between ladder step and upper bunk boundary	M
4.9.4	Gaps between edge of mattress and interior vertical stile	M
4.10	Metal beds: frame and fastenings	M
6	Marking and Labeling	M
7	Instructional Literature	M

M = Meet NM = Not Meet NA = Not Applicable NR = Not Required R = Refer to Comment Section

RESULTS:

Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-22)

Section	Requirements	Result
4	Materials and Manufacture	-
4.1	General	NT
4.1.1	Metal, wood, plastic	NT
4.1.2	Ingestion, inhalation, or absorb of substance	NT
4.1.3	Lead in Paint	M
5	General Requirements	-
5.1	Applicable to All Home Playground Equipment	NA
5.1.1&5.1.2	Statement of conformance	NA
5.2	Small Parts	NA
6	Performance Requirements	-
6.1	Head and Neck Entrapment	-
6.1.1	Accessible Openings	NA
6.1.2	Completely bounded openings	NA
6.1.3	Nonrigid Completely Bounded Openings	NA
6.2	Acute Angles	NA
6.3	Protrusions	M
6.4	Edges, Points, and Surfaces	M
6.5	Open Tubing	NA
6.6	Crush and Shear Points	NA
6.7	Holes and Slots	M
6.8	Hardware	NM
6.9	Hooks	NA
6.10	Hand Support: Hand Gripping/Grasping Components	NA
7	Requirements for Access	-
7.1	Rung Ladders, Stepladders, and Stairways	NA
7.2	Handrails	NA
7.3	Guardrails and Protective Barriers	NA
8	Equipment	-
8.1	Swings	NA
8.2	Slides	M
8.3	Merry-Go-Rounds	NA
8.4	Ropes	NA
9	Equipment Layout	-
9.1	Play Structure Use Zone	NA
10	Installation	-
10.1	Installation Instructions and Information	NM
11	Structural Integrity	-
11.1	General	NA
11.1.1	Handholds, Footholds, and Horizontal Supporting Members	NA
11.1.2	Top Support Bar	NA
11.1.3	Individual Suspended Units	NA
11.1.4	Slides	M
11.1.5	Rockers	NA
11.1.6	Merry-Go-Rounds	NA
11.1.7	Climbing Towers/Jungle Gyms	NA
11.1.8	Platforms	NA



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Standard Consumer Safety Performance Specification for Home Playground Equipment (ASTM F1148-22)

Section	Requirements	Result
11.1.9	Climbing Components	NA
12	Maintenance Instructions	M
13	Labeling and Signage	M
14	Information	M

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RESULT(S):

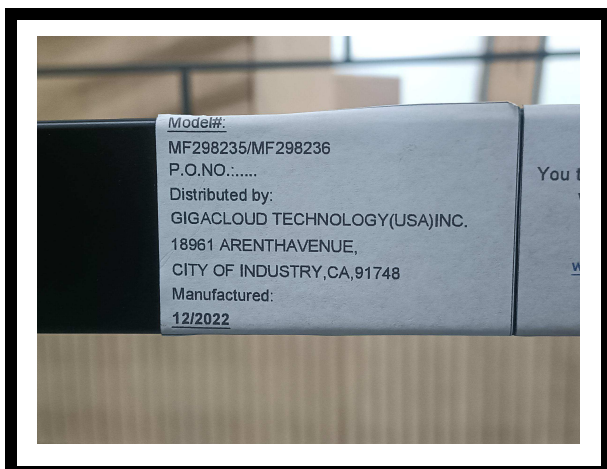
Evaluation	Citation / Method	Test procedure	Results	Rating
Sharp points and Sharp edges	16 CFR 1500.48 16 CFR 1500.49 (Modify)	Shall not have accessible, potentially hazardous sharp point and/ or sharp edge before or after use and abuse testing. Modify: Expends scope to all children products.	M	PASS

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section





CA PROP65 LABEL

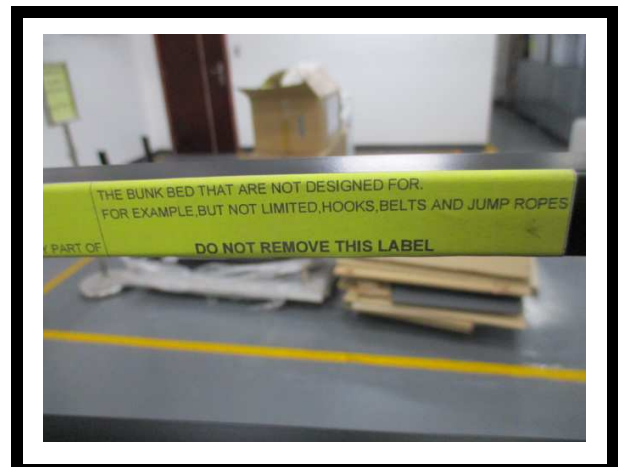
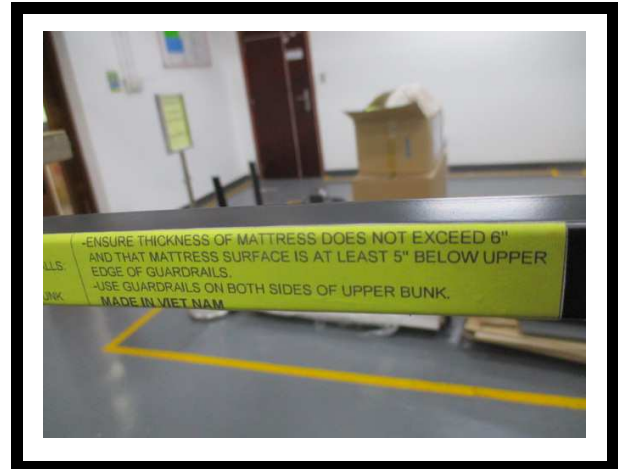


TRACKING LABEL



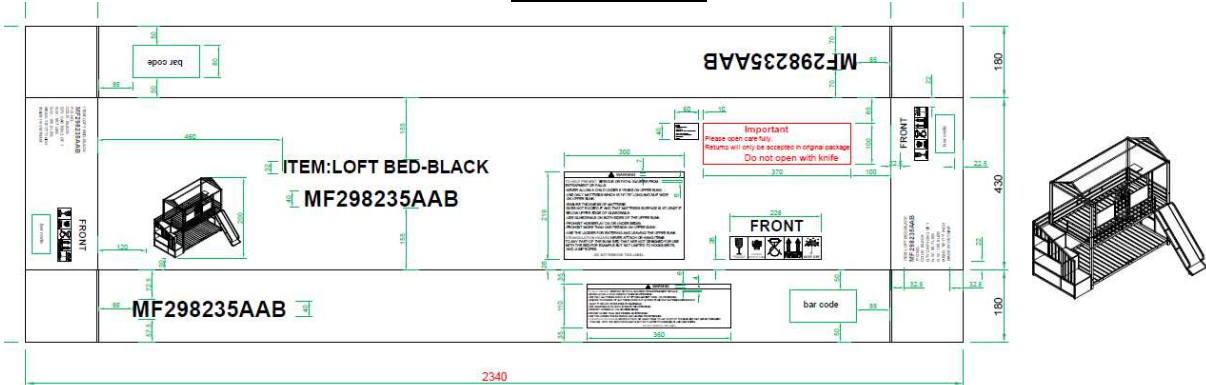
WARNING LABEL OF SLIDE

WARNING LABEL





CARTON LAYOUT



ITEM:LOFT BED-BLACK
MF298235AAB
P.O.NO.:
COLR: BLACK
QTY:CARTON 2 OF 1
N.W.: 95.7 LBS
G.W.: 105.6 LBS
MEAS: 78*17*7 INCH
MADE IN VIETNAM

ITEM:LOFT BED-BLACK MF298235AAB

