1) Lead Content (Surface Coating)

Method: CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

Test item	1	Warning Limit (ppm)	Permissible Limit
Lead (Pb)	ND	40 ppm*	90 ppm
Conclusion	**PASS**	---	---

Sample Description:

1. Coating on Honey Pine Wood

Note: 1. ND = not detected
2. Method Detection Limit = 20 ppm
3. * = Effective 1 January, 2010, total Lead content in any surface Coating materials of toy, children's jewelry and childcare article that is more than 0.004% but lower than 0.009% should bear the following warning statement on the product or the packaging to indicate the product contains Lead.

2) CPSIA section 101(a)(2) – Lead in accessible substrate materials

Method (metal materials): CPSC Test Method: CPSC-CH-E1001-08.1 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item	Result (%)			Detection Limit (%)	Permissible Limit (%)
	1+2+3	4	5		
Lead (Pb)	ND	ND	ND	0.002	0.010**
Comment	PASS	PASS	PASS	--	--

** Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

Sample Description:

1. Large Metal Screws – **Full Sized Bed**
2. Small Metal Screws – **Full Sized Bed**
3. Metal Hook – **Full Sized Bed**
4. Metal Screws – **Twin Sized Bed**
5. Small Metal Screws – **Twin Sized Bed**

Note : 1. % = percentage by weight
2. 1% = 10000 mg/kg
3. Composite test has been performed and the result is calculated using the minimum sample weight.

3) Standard Consumer Safety Specification for Toy Safety, ASTM F963-16 Clause 4.3.

a) Total lead in paint/similar surface Coating material

Method : CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operation Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

Test Item	Results (%)	Reporting Limit (%)	Limit (%)
	1		
Lead (Pb)	ND	0.002	0.009
Conclusion	**PASS**	--	--

Sample Description:

1. Coating on Honey Pine Wood

Note : 1. % = percentage by weight
2. 1% = 10000 mg/kg
3. ND = Not Detected

b) Soluble heavy metals in surface Coating material

Method : With reference to ASTM F963-16 Clause 8.3.1 – Total Element Content Screening (CPSC-CH-E1003-09.1). Analysis was performed by Inductively Coupled Argon Plasma – Optical Emission Spectrometry and/or ICP-MS.

Test Item		Result (mg/kg)	Reporting Limit (mg/kg)	Soluble Limit (mg/kg)
		1		
Total Lead	(Pb)	ND	20	90
Total Antimony	(Sb)	ND	20	60
Total Arsenic	(As)	ND	20	25
Total Barium	(Ba)	ND	100	1000
Total Cadmium	(Cd)	ND	20	75
Total Chromium	(Cr)	ND	20	60
Total Mercury	(Hg)	ND	20	60
Total Selenium	(Se)	ND	20	500
Conclusion		**PASS**	--	

Sample Description:

1. Coating on Honey Pine Wood

Note : 1. mg/kg = milligram per kilogram
2. ND = Not Detected

Remark : 1. The above total heavy metals contents of the submitted samples were not within their corresponding soluble limits; hence additional analysis was performed in accordance with ASTM F963-16 Clause 8.3.1.3.

a) Total lead in substrate material

Method (metal materials): CPSC Test Method: CPSC-CH-E1001-08.1 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item	Result (%)			Detection Limit (%)	Permissible Limit (%)
	1+2+3	4	5		
Lead (Pb)	ND	ND	ND	0.002	0.010
Comment	PASS	PASS	PASS	--	--

Sample Description:

1. Large Metal Screws – **Full Sized Bed**
2. Small Metal Screws – **Full Sized Bed**
3. Metal Hook – **Full Sized Bed**
4. Metal Screws – **Twin Sized Bed**
5. Small Metal Screws – **Twin Sized Bed**

Note : 1. % = percentage by weight
2. 1% = 10000 mg/kg
3. ND = Not Detected
4. Composite test has been performed and the result is calculated using the minimum sample weight.

*** End of Report ***