



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
 REPORT NO: C80131623  
 DATE: March 8, 2016

Attn: Kelly Xiong  
 Sample Description: Hexagon Puzzle / Spiral Wheel Board

Quantity Submitted: 2 pieces x 2 styles  
 Supplier: Carpenters Manufactory Limited  
 Buyer: Not provided  
 Style/Item No.: MK02297/ MK03225  
 P.O. No.: Not provided  
 Labeled Age Grading: 18 m+  
 Destination: Global  
 Country of Origin: China  
 Date(s) of samples received: March 2, 2016 (.p.m.)

**TEST METHOD & RESULTS:** Please refer to next page(s)

**CONCLUSION:** Please refer to page two(2)

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SZ-FAF-001 (2013-04-10)



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## CONCLUSION:

### USA:

ASTM F963-11 Physical & Mechanical Requirements	PASS
16 CFR 1500 & 1501 Physical & Mechanical Requirements	PASS
ASTM F963-11 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in Surface Coating	PASS <sup>#2</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate	PASS <sup>#4</sup>
ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS <sup>#3</sup>
16 CFR 1303 Total Lead Content Requirements	PASS <sup>#3</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS <sup>#3</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS <sup>#4</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS <sup>#4</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in Metallic Small Part	NOT APPLICABLE <sup>#1</sup>
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS <sup>#2</sup>

### CANADA:

Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 Flammability Requirements (Cellulose Nitrate and Celluloid)	PASS
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS <sup>#3</sup>
Canada Consumer Products Containing Lead (Contact mouth) Regulation	PASS <sup>#3,4</sup>
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	PASS <sup>#3</sup>

### AU:

AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2009 Flammability Requirements	PASS
AS/NZS ISO 8124.3:2012 Migration of Certain Elements	PASS <sup>#2,4</sup>
DEHP requirement per Australia Government	PASS <sup>#2</sup>

### EU:

EN 71-1:2014 Mechanical & Physical Properties	PASS
EN 71-2:2011 + A1:2014 Flammability	PASS
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS <sup>#2,4</sup>
Total Cadmium Content and European Reach Regulation Annex XVII	PASS <sup>#2</sup>
Total Phthalate Content European Reach Regulation Annex XVII	PASS <sup>#2</sup>
Azo Dyes Test and European Reach Regulation Annex XVII	NOT APPLICABLE <sup>#1</sup>

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- #1: There is no component on the submitted test samples under the testing scopes.
- #2: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8 listed in the report is identical with the one in report C81021583. The test data of sample 2, 3, 4, 5, 6, 7, 8 in the report was referred from report C81021583 issued on October 20, 2015.
- #3: As claimed by client, the sample 2, 3, 4, 5, 6, 7, 8 listed in the report is identical with the one in report C81021581. The test data of sample 2, 3, 4, 5, 6, 7, 8 in the report was referred from report C81021581 issued on October 20, 2015.
- #4: As claimed by client, the sample 1, 9 listed in the report is identical with the one in report C81061528. The test data of sample 1, 9 in the report was referred from report C81061528 issued on November 4, 2015.

For and on behalf of :  
 UL VS Shanghai Limited Shenzhen Branch

Benson Ye  
 Technical Manager -  
 Toys Department

Ms. Carol Ke  
 Laboratory manager-  
 Chemical Department

**Important Notes :**  
 The results only relate to the samples tested.

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## TEST RESULTS

### 1. USA

#### 1.1 MECHANICAL AND PHYSICAL TEST

##### 1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-11

The following clauses are identified to be applicable:

Age grading for testing : Ages 18 months+  
Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.6	Small objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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## TEST RESULTS

### 1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ TESTS:

The following clauses are identified to be applicable:

Age grading for testing : Ages 18 months+  
 Samples Quantity : 2 style(s) x 1 set(s)

	<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)	<u>SMALL PART</u> (1501)
	As received	P	P	P
1500.53	Impact Test	P	P	P
1500.53	Torque Test	P	P	P
1500.53	Tension Test	P	P	P
1500.53	Compression	P	P	P
1500.52	Bite Test	P	P	P

Remark: P = Pass

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## TEST RESULTS

### 1.2 FLAMMABILITY TEST

#### 1.2.1 AS ASTM STANDARD ON SAFETY OF TOYS F963-11 ANNEX A5:

Samples Quantity: 1 set(s) x 2 style(s)  
 Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.  
 Results: The sample was tested to be ignited but extinguished.

#### 1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity: 1 set(s) x 2 style(s)  
 Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.  
 Results: The sample was tested to be ignited but extinguished.

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## TEST RESULTS

### 1.3 CHEMICAL TESTS:

#### 1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 8	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"

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## TEST RESULTS

### 1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"

### 1.3.3 TOTAL LEAD CONTENT TEST: COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
Total Lead	14.6	<10.0	14.4	<10.0	17.6
	<u>Sample 7</u>	<u>Sample 8</u>			
Total Lead	<10.0	<10.0			

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

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### 1.3.4 TOTAL LEAD CONTENT TEST: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
Total Lead	14.6	<10.0	14.4	<10.0	17.6
	<u>Sample 7</u>	<u>Sample 8</u>			
Total Lead	<10.0	<10.0			

All concentrations expressed in milligrams per kilogram  
 “<” means “less than”

### 1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>	<u>Sample 6</u>
Total Lead	14.6	<10.0	14.4	<10.0	17.6
	<u>Sample 7</u>	<u>Sample 8</u>			
Total Lead	<10.0	<10.0			

All concentrations expressed in milligrams per kilogram  
 “<” means “less than”

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## TEST RESULTS

### 1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal;  
 CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results:

Total Lead Sample 9  
 <10.0

All concentrations expressed in milligrams per kilogram  
 "<" means "less than"

### 1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);  
 CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

Total Lead Sample 9  
 <10.0

All concentrations expressed in milligrams per kilogram  
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### 1.3.8 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article.  
 DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
 2) ND= not detected

Key : DBP = Di-butyl phthalate DEHP = Di (2-Ethylhexyl) phthalate  
 BBP = Benzyl butyl phthalate DINP = Di-"isonomy" phthalate  
 DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octal phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 2. CANADA

#### 2.1 MECHANICAL AND PHYSICAL TEST

##### AS PER CANADA TOYS REGULATIONS, SOR/2011-17

The following clauses are identified to be applicable:

Age grading for testing : Ages 18 months+  
Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
7	Small parts	P
9	Ends	P
11	Exposed Wooden Surfaces, Edges And Corners	P

Remark: P = Pass

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SZ-FAF-001 (2013-04-10)



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 2.2 FLAMMABILITY TEST

#### AS PER CANADA TOYS REGULATIONS SOR/2011-17 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire  
(except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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SZ-FAF-001 (2013-04-10)



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 2.3 CHEMICAL TESTS:

#### 2.3.1 HEAVY METAL CONTENT TEST :CANADA TOYS REGULATION SOR/2011-17

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	14.6	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 3	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 4	14.4	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 5	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 6	17.6	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 7	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 8	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0

All concentrations expressed in milligrams per kilogram  
“<” means “less than”  
“N/D” means “None Detected”  
\*\*Detection Limit is 10.0 milligrams per kilogram.

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SZ-FAF-001 (2013-04-10)



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 2.3.2 LEAD CONTENT IN PRODUCTS CONTACT WITH MOUTH

Criteria: The submitted sample shall meet Canada Consumer products containing lead (contact with mouth) regulation and shall not contain total lead content greater than 90 mg/Kg,

Method: Reference to Canada Product safety reference manual, Book 5, Part B, Method C-02.3 Determination for total lead in polyvinyl by closed-vessel microwave digestion and following by Atomic Absorption Spectrometry (AAS) analysis.

Results:

	<u>Sample 1</u>	<u>Sample 9</u>
Total Lead	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
 "<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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 REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 2.3.3 TOTAL PHTHALATE TEST: CLIENT'S REQUIREMENT WITH REFERENCE TO CANADA PHTHALATES REGULATION SOR/2010-298

Requirement : The vinyl in a toy or childcare article must contain not more than 1,000 mg/kg of DEHP, DBP, or BBP.  
 The vinyl in any part of a toy or childcare article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1,000 mg/kg of DINP, DIDP, or DNOP.

Method : C-34  
 Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
 2) ND= not detected

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate  
 BBP = Benzyl butyl Phthalate DINP = Di-"isononyl" phthalate  
 DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octyl phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 3. AUSTRALIA

#### 3.1 MECHANICAL AND PHYSICAL TEST

**AS PER INTERNATIONAL STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.1:2013 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES.**

**The following clauses are identified to be applicable:**

**Age grading for testing : Ages 18 months+**  
**Samples Quantity : 2 style(s) x 1 set(s)**

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4	Small parts	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labelling guidelines and manufacturer's markings	P

Remark: P = Pass

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 3.2 FLAMMABILITY TEST

#### AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2009 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
 Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 3.3 CHEMICAL TESTS:

#### 3.3.1 MIGRATION OF CERTAIN ELEMENTS : AZ/NZS ISO 8124.3:2012

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 1	<6.0	<2.5	16.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 8	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

#### Remark:

1. Method for determination of each soluble element present
  - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.

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# TEST REPORT

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ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 3.3.2 DEHP Content

Criteria: Commonwealth of Australia Trade Practices Act 1974, Consumer Protection Notice No 6 of 2010 Special Gazette No S 19 (2 March 2010)

Method: CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.  
Results:

	<u>Limit</u>	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>
Di (2-Ethylhexyl) Phthalate (DEHP)	1 %	ND	ND	ND	ND

	<u>Limit</u>	<u>Sample 6</u>	<u>Sample 7</u>	<u>Sample 8</u>	<u>Sample 9</u>
Di (2-Ethylhexyl) Phthalate (DEHP)	1 %	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi  
Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

## TEST RESULTS

### 4. EU

#### 4.1 MECHANICAL AND PHYSICAL TEST

##### AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 18 months+  
Samples Quantity : 2 style(s) x 1 set(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points And Metallic Wires	P
5.1	General requirements – toys intended for children under 36 months	P

Remark: P = Pass

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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# TEST REPORT

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 REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 4.2 FLAMMABILITY TEST

**AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014  
 SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):**

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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 DATE: March 8, 2016

## TEST RESULTS

### 4.3 CHEMICAL TESTS:

#### 4.3.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013 Migration of certain elements

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	16.5	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	80.5	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	<50	2900.0	1145.0	1500.0	1700.0

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SZ-FAF-001 (2013-04-10)



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 6	Sample 7	Sample 8	Sample 9
Antimony	560	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>A</sup>	<0.2 <sup>A</sup>	<0.2 <sup>A</sup>	<0.2 <sup>A</sup>
Lead	160	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	7.0
Tin	180,000	<4.0	<4.0	<4.0	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--	--	--
Zinc	46,000	2700.0	2400.0	<50	<50

All concentrations expressed in milligrams per kilogram  
 "<" means "less than"

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SZ-FAF-001 (2013-04-10)





# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### REMARK:

1. Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.  
# : The chromium VI content is determined by LC-ICP-MS
3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
4. Δ : Chromium VI data is based on total Chromium

### 4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 2	<5.0
Sample 3	<5.0
Sample 4	<5.0
Sample 5	<5.0
Sample 6	<5.0
Sample 7	<5.0
Sample 8	<5.0

All concentrations expressed in milligrams per kilogram  
 "<" means "less than"

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SZ-FAF-001 (2013-04-10)



# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
 REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### 4.3.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

Test Method : EN 14372: 2004  
 Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article.  
 DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.  
 Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 8	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
 2) ND = not detected

Key : DBP = Di-butyl phthalate      DNOP = Di-n-octyl phthalate  
 BBP = Butyl-benzyl phthalate      DINP = Di-iso-nonyl phthalate  
 DEHP = Di-(2-ethyl-hexyl) phthalate      DIDP = Di-iso-decyl phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
 ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
 REPORT NO: C80131623  
 DATE: March 8, 2016

## TEST RESULTS

### Key to sample(s):

- Sample 1 = Brown wood excluding coatings (wooden pieces of both styles)
- Sample 2 = Bright red coating on wood/plywood (wooden pieces & logo on board of both styles) (A1Y)
- Sample 3 = Orange coating on wood (wooden pieces of both styles) (A2Y)
- Sample 4 = Light yellow coating on wood (wooden pieces of both styles) (A3Y)
- Sample 5 = Dark green coating on wood/plywood (wooden pieces & logo on board of both styles) (A5Y)
- Sample 6 = Light green coating on wood (wooden pieces of both styles) (A6Y)
- Sample 7 = Light blue coating on wood (wooden pieces of both styles) (A8Y)
- Sample 8 = Clear lacquer coating on wood/plywood (wooden pieces & board of both styles) (A21Y)
- Sample 9 = Beige plywood excluding coatings (board of both styles)

Date(s) of test(s) conducted: March 2, 2016 to March 4, 2016

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SZ-FAF-001 (2013-04-10)

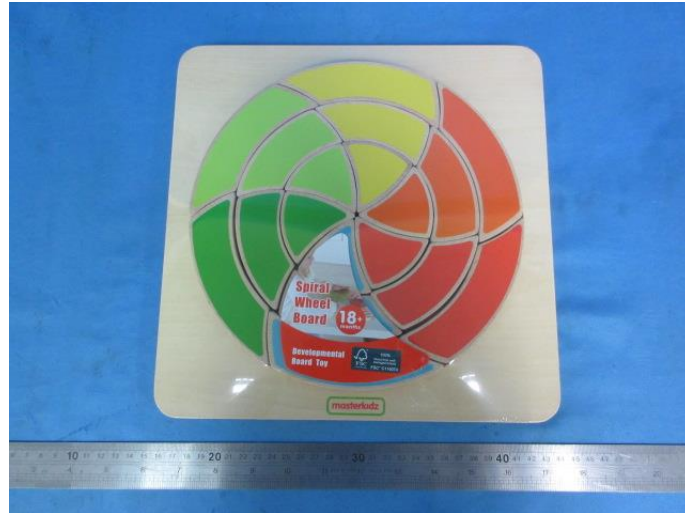


# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80131623  
DATE: March 8, 2016

### Product Photo:



\*\*\*\*\* THE END \*\*\*\*\*

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