

# GWSTC Test Report

Date: 2013-12-25

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NO: GP158744

**APPLICANT:** (Code: CML001)

Carpenters Manufactory Limited  
Huang Jin Ji Industrial Zone  
Shang Jie Village, Qi Shi Town  
Dongguan City, Guangdong Province  
China

Attn: Candy

**DESCRIPTION OF SAMPLE(S):**

Three (3) styles, six (6) pieces of submitted sample (photo attached at Appendix A) said to be:  
LACING BEE / LACING BUNNY / LACING FISH  
ITEM NO.: ET1A11 / ET1A10 / ET1A09  
COUNTRY OF ORIGIN: CHINA  
COUNTRY OF DESTINATION: EUROPE, USA  
SUPPLIER/MANUFACTURER: CARPENTERS MANUFACTORY LIMITED

**CONCLUSION:**

EN71:Part 1:2011

The submitted sample complied with the requirement.

EN71:Part 2:2011

The submitted sample complied with the requirement.

EN71:Part 3:2013

The submitted sample complied with the requirement.


The entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH

The submitted sample complied with the requirement.

The entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH

The submitted sample complied with the requirement.

Approved Signatory:

  
Feng Jun Guo  
Lab Manager  
Ellen, Xiao Wan Li  
General Manager

**Guangzhou Worldwide Standards and Testing Company Limited**

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## GWSTC Test Report

**Date: 2013-12-25**

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**NO: GP158744**

**DATE OF SAMPLE(S) RECEIVED:**

2013-11-22

**INVESTIGATION REQUESTED:**

1. European Standard for Safety of toys
  - EN71:Part 1:2011 for mechanical and physical properties test
  - EN71:Part 2:2011 for flammability test
  - EN71:Part 3:2013 for migration of certain elements
2. Total cadmium content in accordance with the entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH (Previously restricted by EEC Directive 91/338/EEC).
3. Phthalates content in accordance with the entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH (Previously restricted by Directive 2005/84/EC).

**DATE TESTED:**

EN71

Part 1 & 2: 2013-11-25

Part 3: 2013-11-22 to 2013-12-23

The entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH  
2013-11-22 to 2013-12-23

The entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH  
2013-11-22 to 2013-12-23

**AGE GRADING:**

The sample did not contain an age grade; however, the applicant requested it be tested according to the age grade of 18 months and up.

**AGE GRADING FOR TESTING:**

18 months and up

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**TEST RESULTS:**

1 EN71

1.1 EN71:Part 1:2011 - Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	----
4.1	Material	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
5	<u>Toys intended for children under 36 months</u>	----
5.1	General requirements	Pass
7	<u>Warning, marking and instructions for use</u>	----

Remark: Toys made available on the market shall bear the CE marking. The CE marking shall be affixed visibly, legibly and indelibly. The CE marking shall be at least 5 mm high.

The CE marking was found on the submitted sample.

The manufacturer (or importer)'s name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

The information was found on the submitted sample.

Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy.

There was no the information to be found on the submitted sample.

Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers.

There were no the instructions/safety information to be found in the submitted sample.

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1.2 EN71:Part 2:2011 - Flammability

<u>Applicable</u>	<u>Description</u>	<u>Result</u>
<u>Clause</u>		
4.1	General	Pass

1.3 EN71:Part 3:2013 - Migration of certain elements (Category III: Scraped-off materials) (see Remark 1)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer/  
 Gas Chromatograph-Mass Spectrometer/  
 Liquid Chromatograph-Inductively Coupled Plasma-Mass Spectrometer

Tested components

- (a) Lacing bee/bunny/fish: bright red coating (A1Y) (see Remark 3)
- (b) Lacing bee/bunny/fish: orange coating (A2Y) (see Remark 3)
- (c) Lacing bee/bunny/fish: light yellow coating (A3Y) (see Remark 3)
- (d) Lacing bee/bunny/fish: dark green coating (A5Y) (see Remark 4)
- (e) Lacing bee/bunny/fish: white coating (A14Y) (see Remark 4)
- (f) Lacing bee/bunny/fish: black coating (A19Y) (see Remark 5)
- (g) Lacing bee/bunny/fish: wood flesh (see Remark 3)

	<u>(a)</u>	<u>(b)</u>	<u>(c)</u>	<u>Limit</u>
Soluble cadmium .....	<2mg/kg	<2mg/kg	<2mg/kg	17mg/kg
Soluble arsenic .....	<5mg/kg	<5mg/kg	<5mg/kg	47mg/kg
Soluble mercury .....	<5mg/kg	<5mg/kg	<5mg/kg	94mg/kg
Soluble antimony .....	<10mg/kg	<10mg/kg	<10mg/kg	560mg/kg
Soluble chromium (III) .....	<10mg/kg	<10mg/kg	<10mg/kg	460mg/kg
Soluble chromium (VI) .....	<0.2mg/kg	<0.2mg/kg	<0.2mg/kg	0.2mg/kg
Soluble lead .....	<10mg/kg	<10mg/kg	<10mg/kg	160mg/kg
Soluble cobalt .....	<10mg/kg	<10mg/kg	<10mg/kg	130mg/kg
Soluble selenium .....	<10mg/kg	<10mg/kg	<10mg/kg	460mg/kg
Soluble barium .....	<10mg/kg	<10mg/kg	<10mg/kg	18750mg/kg
Soluble aluminium .....	55mg/kg	66mg/kg	140mg/kg	70000mg/kg
Soluble boron .....	<10mg/kg	<10mg/kg	<10mg/kg	15000mg/kg
Soluble copper .....	27mg/kg	29mg/kg	38mg/kg	7700mg/kg
Soluble manganese .....	<10mg/kg	<10mg/kg	<10mg/kg	15000mg/kg
Soluble nickel .....	<10mg/kg	<10mg/kg	<10mg/kg	930mg/kg
Soluble strontium .....	21mg/kg	15mg/kg	<10mg/kg	56000mg/kg
Soluble tin .....	<4mg/kg	<4mg/kg	<4mg/kg	180000mg/kg
Soluble zinc .....	210mg/kg	190mg/kg	290mg/kg	46000mg/kg
Soluble organic tin .....	<12mg/kg	<12mg/kg	<12mg/kg	12mg/kg

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	<u>(d)</u>	<u>(e)</u>	<u>(f)</u>	<u>Limit</u>
Soluble cadmium .....	<2mg/kg	<2mg/kg	<2mg/kg	17mg/kg
Soluble arsenic .....	<5mg/kg	<5mg/kg	<5mg/kg	47mg/kg
Soluble mercury .....	<5mg/kg	<5mg/kg	<5mg/kg	94mg/kg
Soluble antimony .....	<10mg/kg	<10mg/kg	<10mg/kg	560mg/kg
Soluble chromium (III) .....	<10mg/kg	<10mg/kg	<10mg/kg	460mg/kg
Soluble chromium (VI) .....	<0.2mg/kg	<0.2mg/kg	<0.2mg/kg	0.2mg/kg
Soluble lead .....	<10mg/kg	<10mg/kg	<10mg/kg	160mg/kg
Soluble cobalt .....	<10mg/kg	<10mg/kg	<10mg/kg	130mg/kg
Soluble selenium .....	<10mg/kg	<10mg/kg	<10mg/kg	460mg/kg
Soluble barium .....	<10mg/kg	<10mg/kg	<10mg/kg	18750mg/kg
Soluble aluminium .....	97mg/kg	86mg/kg	22mg/kg	70000mg/kg
Soluble boron .....	<10mg/kg	<10mg/kg	<10mg/kg	15000mg/kg
Soluble copper .....	35mg/kg	36mg/kg	<10mg/kg	7700mg/kg
Soluble manganese .....	<10mg/kg	<10mg/kg	<10mg/kg	15000mg/kg
Soluble nickel .....	<10mg/kg	<10mg/kg	16mg/kg	930mg/kg
Soluble strontium .....	<10mg/kg	12mg/kg	<10mg/kg	56000mg/kg
Soluble tin .....	<4mg/kg	<4mg/kg	<4mg/kg	180000mg/kg
Soluble zinc .....	2.3×10 <sup>2</sup> mg/kg	5.5×10 <sup>2</sup> mg/kg	4.8×10 <sup>2</sup> mg/kg	46000mg/kg
Soluble organic tin .....	<12mg/kg	<12mg/kg	<12mg/kg	12mg/kg

	<u>(g)</u>	<u>Limit</u>
Soluble cadmium .....	<2mg/kg	17mg/kg
Soluble arsenic .....	<5mg/kg	47mg/kg
Soluble mercury .....	<5mg/kg	94mg/kg
Soluble antimony .....	<10mg/kg	560mg/kg
Soluble chromium (III) .....	<10mg/kg	460mg/kg
Soluble chromium (VI) .....	<0.2mg/kg	0.2mg/kg
Soluble lead .....	<10mg/kg	160mg/kg
Soluble cobalt .....	<10mg/kg	130mg/kg
Soluble selenium .....	<10mg/kg	460mg/kg
Soluble barium .....	20mg/kg	18750mg/kg
Soluble aluminium .....	<10mg/kg	70000mg/kg
Soluble boron .....	<10mg/kg	15000mg/kg
Soluble copper .....	19mg/kg	7700mg/kg
Soluble manganese .....	<10mg/kg	15000mg/kg
Soluble nickel .....	<10mg/kg	930mg/kg
Soluble strontium .....	<10mg/kg	56000mg/kg
Soluble tin .....	<4mg/kg	180000mg/kg
Soluble zinc .....	<10mg/kg	46000mg/kg
Soluble organic tin .....	<12mg/kg	12mg/kg

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2. Entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH - Total cadmium analysis (see Remark 1)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Tested components

- (a) Lacing bee/bunny/fish: bright red coating (A1Y) (see Remark 2)
- (b) Lacing bee/bunny/fish: orange coating (A2Y) (see Remark 2)
- (c) Lacing bee/bunny/fish: light yellow coating (A3Y) (see Remark 2)
- (d) Lacing bee/bunny/fish: dark green coating (A5Y) (see Remark 2)
- (e) Lacing bee/bunny/fish: white coating (A14Y) (see Remark 2)
- (f) Lacing bee/bunny/fish: black coating (A19Y) (see Remark 2)
- (g) Lacing bee/bunny/fish: wood flesh (see Remark 3)

<u>Sample</u>	<u>Result</u>	<u>Acceptable Limit</u>
(a)~(g)	<5mg/kg	100mg/kg

3. Entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH - Phthalates analysis

Method used: EN14372-2004

Determined by: Gas Chromatograph-Mass Spectrometry

Plasticised material in toys and childcare articles which can be placed in the mouth by children

Tested components

- (a) Lacing bee/bunny/fish: bright red coating (A1Y) (see Remark 2)
- (b) Lacing bee/bunny/fish: orange coating (A2Y) (see Remark 2)
- (c) Lacing bee/bunny/fish: light yellow coating (A3Y) (see Remark 2)
- (d) Lacing bee/bunny/fish: dark green coating (A5Y) (see Remark 2)
- (e) Lacing bee/bunny/fish: white coating (A14Y) (see Remark 2)
- (f) Lacing bee/bunny/fish: black coating (A19Y) (see Remark 2)
- (g) Lacing bee/bunny/fish: wood flesh (see Remark 3)

<u>Short form</u>	<u>Full name</u>	<u>(a)~(g)</u>	<u>Limit</u>
(DEHP)	Di (2-ethylhexyl) phthalate	Non-detected	---
(BBP)	Butyl benzyl phthalate	Non-detected	---
(DBP)	Di-butyl phthalate	Non-detected	---
(DINP)	Di-iso-nonyl phthalate	Non-detected	---
(DIDP)	Di-iso-decyl phthalate	Non-detected	---
(DNOP)	Di-n-octyl phthalate	Non-detected	---
Sum of DEHP/BBP/DBP		Non-detected	0.1%
Sum of DINP/DIDP/DNOP		Non-detected	0.1%

Note: Method detection limit for BBP, DBP, DEHP, DNOP, DINP, DIDP = 0.01% (w/w)

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**Remark 1:**

The EN71:Part 3:2013 and EEC Directive 91/338/EEC for total cadmium is not covered by the CNAS accreditation.

**Remark 2:**

The test results are transferred from the test report GP158735 which issued on 2013-11-26.

**Remark 3:**

The test results are transferred from the test report GP158738 which issued on 2013-11-29.

**Remark 4:**

The test results are transferred from the test report GP158772 which issued on 2013-12-18.

**Remark 5:**

The test results are transferred from the test report GP158858 which issued on 2013-12-23.

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Appendix A



### PHOTOGRAPH(S) OF THE SAMPLE

\*\*\*\*\* End of Document \*\*\*\*\*

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