



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a.s.
Zlín, Czech Republic – www.itczlin.cz

CERTIFICATE

No. 17 0175 T/ITC

certifies that the product

Wooden toys

(specifications, color picture and description of the toy are in Annex that is an integral part of this Certificate)

manufactured by the company

«LAM» Joint Limited Liability Company

Vialiki Gastinec Str. 143L, 222310 Molodechno, Republic of Belarus
VAT reg. No.: 101086048

complies with the basic requirements of the following certification documents:

EN 71-1:2014

EN 71-2+A1:2014

EN 71-3+A1:2014

EN 71-9+A1:2007

Regulation (EC) No. 1907/2006 (REACH), Annex XVII, item 50

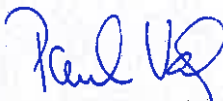
Institut pro testování a certifikaci, a.s. has performed assessment with a positive result according to the certification process, scheme 1a, in compliance with the requirements of ČSN EN ISO /IEC 17067 and the above-mentioned technical specifications. Descriptions of the product, documentation, evaluation processes and results of type examination are provided in the Final report no. 313300758/2017, which forms an annex of this Certificate.

Conditions of use of this Certificate and related information.

1. This Certificate is issued on a voluntary basis and is valid only in relation to the product(s) and its modifications shown on the Certificate and in relation to the issued certification document.
2. Institut pro testování a certifikaci, a.s., the issuer of this Certificate, confirms the existence of relevant certification document.
3. This Certificate does not suggest in any way that supervision or control of production was carried out by ITC.
4. This certificate remains valid unless there is a change in the production technology or in the relevant standards or regulations, but not longer than specified below.
5. The holder of this Certificate is obliged to organize their own system of production quality assurance so that the certified product complies with the requirements specified by the certification document and terms of use of this certificate permanently for the entire validity of this Certificate, and shall notify ITC of any change in raw materials or production technologies which could affect the characteristics of the certified product.
6. When using the Certificate, the holder of this Certificate shall comply with the Rules for certificate use publicly available on www.itczlin.cz.
7. The validity of the Certificate can be verified on www.itczlin.cz.

Issued on: 10. 04. 2017
Valid to: 09. 04. 2020




Ing. Pavel Vaněk
Head of the Certification Division

Annex

to Certificate No. 17 0175 T/ITC

No	Code	Description of toys	Dimensions of toy, mm
1.	1001	Candle	240x180x9
2.	1002	Telephone	240x180x9
3.	1003	Teapot	240x180x9
4.	1006	Little horse	240x180x9
5.	1007	Elephant	240x180x9
6.	1008	Dog	240x180x9
7.	1009	Lion	240x180x9
8.	1011	Car	320x320x9
9.	1012	Train/Steam locomotive	320x320x9
10.	1013	Boat/Sailing ship	320x320x9
11.	1014	Helicopter	320x320x9
12.	1016	Apples	375x104x9
13.	1017	Shoes	375x104x9
14.	1018	Telephones	375x104x9
15.	1019	Turtles	375x104x9
16.	1026	Young boy	160x300x9
17.	1029	Butterfly	240x240x5
18.	1030	Outward things	214x214x5
19.	1031	Geometry	214x214x5
20.	1032	Lines	214x214x5
21.	1300	Park	405x275x9
22.	1301	Park-School	405x275x9
23.	1302	School	405x275x9
24.	1304	Circus	405x275x9
25.	1305	Circus-Beach	405x275x9
26.	1306	Beach	405x275x9
27.	1308	Farm	405x275x9
28.	1309	Farm-Birthday	405x275x9
29.	1310	Birthday	405x275x9
30.	1312	Show the direction	280x280x9
31.	1314	Find the place	280x280x9
32.	1315	Select a toy	280x280x9
33.	1316	Find the garage	280x280x9
34.	1317	Compare and select	280x280x9
35.	1318	Dispose in space	280x280x9
36.	1319	Merging of colors	230x330x9
37.	1400	Child's play	205x295x9
38.	1401	Bathroom	205x295x9
39.	1402	Bees	330x240x9
40.	1404	Doggy with kennel	295x205x9
41.	1405	Sea animals	295x205x9
42.	1406	Animals	295x205x9
43.	1407	Cat and the kitten	295x205x9
44.	1408	Raccoons	295x205x9
45.	1409	Female chick	295x205x9
46.	1411	Fantastic travels	330x240x9
47.	1412	Dalmatian	295x245x9
48.	1413	Lion	295x245x9

No	Code	Description of toys	Dimensions of toy, mm
49.	1414	Elephants	295x205x9
50.	1415	Fruit, vegetables Breakfast	295x205x9
51.	1416	Crayons	BOX 205x145x55
52.	1417	Time relations	BOX 205x145x55
53.	1418	Light and shade	BOX 271x220x55
54.	1419	Before & after	BOX 271x220x55
55.	1420	Farm	205x295x9
56.	1421	Who lives where	205x295x9
57.	1422	Bisected fruit	205x295x9
58.	1423	Breakfast	205x295x9
59.	1424	Big house	205x295x9
60.	1425	Motor car	205x295x9
61.	1426	School bus	205x295x9
62.	1427	Firemen	205x295x9
63.	1430	City+ Park	BOX 350x280x55
64.	1431	City	BOX 350x280x55
65.	1432	Park	BOX 350x280x55
66.	1433	Building site	BOX 350x280x55
67.	1434	Exotic animals	295x205x9
68.	1440	Ecology	200x200x9
69.	1445	Biology	200x200x9
70.	1446	A tree & its parts	200x200x9
71.	1447	A flower & its parts	200x200x9
72.	1450	Big puzzle-boy	750x500x5
73.	1451	Big boy	750x500x5
74.	1462	Bear-cub	250x200x5
75.	1463	Fish	250x200x5
76.	1470	Apples	295x95x9
77.	1471	Chickens	295x95x9
78.	1472	Dog	295x95x9
79.	1473	My morning	295x95x9
80.	1474	Seasons	295x95x9
81.	1475	Child's play	295x95x9
82.	1476	Fruit	295x95x9
83.	1477	Farm	295x95x9
84.	1478	Cubs	295x95x9
85.	1480	Funny animals	145x145x9
86.	1501	Dominoes "Animals"	BOX 205x145x55
87.	1502	Dominoes "Shades"	BOX 205x145x55
88.	1503	Dominoes "Relation"	BOX 205x145x55
89.	1504	Dominoes "Opposites"	BOX 360x180x45
90.	1505	Dominoes "Sense Organs"	BOX 360x180x45
91.	1507	"Basya"	BOX 210x145x55
92.	1508	Dominoes "Numbers & Figures"	BOX 215x180x45
93.	1509	Draughts "Mouse-cat"	370x370x5
94.	1510	Draughts "Cat-Dog"	370x370x5
95.	1511	Dominoes "Actions order"	BOX 360x180x45
96.	1513	Learn to count	BOX 362x182x60
97.	1514	Hard currency	BOX 388x284x60
98.	1601	Animals	BOX 205x145x55
99.	1602	Look, listen	BOX 360x180x45
100.	1603	Sounds of outward things	BOX 385x280x55

No	Code	Description of toys	Dimensions of toy, mm
101.	1604	Man and it's surroundings	BOX 385x280x55
102.	1605	Musical instruments tones	BOX 205x145x55
103.	1610	Lotto: Vegetables, fruit, berries	BOX 205x145x55
104.	1611	Lotto: "Quantity/number"	BOX 205x145x55
105.	1630	Book: Boot	140x140x30
106.	1640	Book: Hen	140x140x30
107.	33570	Calendar (All the year round)	440x630x9
108.	33571	We are on duty	450x330x9
109.	33572	Little locks	350x500x13
110.	5000	We play at Zoo – Volumetric figures	BOX 205x145x55
111.	5001	Hands(Fingers)	400x200x4
112.	5002	Tactile hands	BOX 280x385x55
113.	5003	Geometrical figures (small)	483x363x9
114.	5004	Geometrical figures	483x400x9
115.	5005	Dominoes "Mathematics"	BOX 271x220x55
116.	5006	Bead	BOX 350x278x75
117.	5009	Dominoes "Geometry"	BOX 362x182x60
118.	5011	Clown	493x295x9
119.	5012	Engl. Worm	490x295x9
120.	5013	Europe map	410x295x9
121.	5014	Continents map	500x365x9
122.	5015	Caterpillar	413x295x9
123.	5018	Counting sticks	300x600x9
124.	5025	Road signs	Box 240x190x60
125.	5027	Planets	410x300x9
126.	5030	Make a picture	Box 178x98x40
127.	5031	Turnip theater	Box 270x218x55
128.	5032	Make a chain	Box 250x236x55
129.	5033	Kolobok theater	Box 270x218x55
130.	5035	Small tower theater	Box 270x218x55
131.	5036	Geometric	65x230x75
132.	5038	Knocker	135x220x90
133.	11465	Game –Biological bureau	490x350x160
134.	11466	Game –Geometrical bureau	490x350x270
135.	6026	Child's cymbals	370x202x40
136.	6027	Xylophone	240x340x40
137.	3002	Table theater screen	295x450x6

New article:

No	Code	Description of toys	Dimensions of toy (mm)
1.	5040	Clock	
2.	446-0	Basis for panels	595x70x1230
3.	446-1	Game panel Target hand bell	575x680x9
4.	446-2	Game panel Lacing embroidery	575x680x9
5.	446-3	Game panel Labyrinth	575x680x9
6.	446-4	Game panel Shooting gallery theater	575x680x9
7.	446-5	Game panel Pirate	575x680x9
8.	446-6	Game panel Hunter	575x680x9
9.	446-7	Game panel A mouse in cheese	575x680x9

Nº	Code	Description of toys	Dimensions of toy (mm)
10.	446-8	Game panel To throw rings	575x680x9
11.	446-9	Game panel Magnetic board	575x680x9
12.	446-10	Game panel Houses	575x680x9
13.	3005	Sensino	640x74x1230
14.	11467	Game Intoshka	685x445x870
15.	1624-1	Constructor "Sam" set No.1	1600x480x200
16.	1624-2	Constructor "Sam" set No.2	2280x480x200
17.	1624-3	Constructor "Sam" set No.3	1400x480x700
18.	1624-4	Constructor "Sam" set No.4	1400x480x700
19.	1624-5	Constructor "Sam" set No.5	1400x480x700
20.	1624-6	Constructor "Sam" set No.6	680x440x720
21.	1624-7	Constructor "Sam" set No.7	580x280x280
22.	1624-8	Constructor "Sam" set No.8	580x280x280
23.	1624-9	Constructor "Sam" set No.9	1480x580x290
24.	1624-10	Constructor "Sam" set No.10	320x320x240
25.	1624-11	Constructor "Sam" set No.11	1480x960x160
26.	1624-12	Constructor "Sam" set No.12	680x580x280
27.	1624-13	Constructor "Sam" set No.13	860x680x580
28.	1624-14	Constructor "Sam" set No.14	1000x360x320
29.	1624-15	Constructor "Sam" set No.15	680x450x400
30.	1624-16	Constructor "Sam" set No.16	680x450x400



INSTITUTE FOR TESTING AND CERTIFICATION

trída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

FINAL REPORT

Ref. No. 313300758/2017

Client: LAM Joint Limited Liability Company (LAM JLLC)
Vialiki Gastinec Str. 143 L, Molodechno
Republic of Belarus

Product: Wooden toys
(specification on the 2 page)

Manufacturer: LAM Joint Limited Liability Company (LAM JLLC)
Vialiki Gastinec Str. 143 L, Molodechno
Republic of Belarus

Assessed by: Dipl. Ing. Ludmila Antošová

Issued on: 2017-04-10



Dipl. Ing. Pavel Vaněk
Head of the Certification Department

**1. Product specification and requested service**

The client – **LAM Joint Limited Liability Company (LAM JLLC), Vialiki Gastinec Str. 143 L, Molodechno, Republic of Belarus**, ordered the estimation of the tests of the following sample:

Specification of product.: Wooden toys (Color pictures of the toys - see paint 5.)

<i>No</i>	<i>Code</i>	<i>Description of toys</i>	<i>Dimensions of toy, mm</i>
1.	1001	Candle	240x180x9
2.	1002	Telephone	240x180x9
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4.	1006	Little horse	240x180x9
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6.	1008	Dog	240x180x9
7.	1009	Lion	240x180x9
8.	1011	Car	320x320x9
9.	1012	Train/Steam locomotive	320x320x9
10.	1013	Boat/Sailing ship	320x320x9
11.	1014	Helicopter	320x320x9
12.	1016	Apples	375x104x9
13.	1017	Shoes	375x104x9
14.	1018	Telephones	375x104x9
15.	1019	Turtles	375x104x9
16.	1026	Young boy	160x300x9
17.	1029	Butterfly	240x240x5
18.	1030	Outward things	214x214x5
19.	1031	Geometry	214x214x5
20.	1032	Lines	214x214x5
21.	1300	Park	405x275x9
22.	1301	Park-School	405x275x9
23.	1302	School	405x275x9
24.	1304	Circus	405x275x9
25.	1305	Circus-Beach	405x275x9
26.	1306	Beach	405x275x9
27.	1308	Farm	405x275x9
28.	1309	Farm-Birthday	405x275x9
29.	1310	Birthday	405x275x9
30.	1312	Show the direction	280x280x9
31.	1314	Find the place	280x280x9
32.	1315	Select a toy	280x280x9
33.	1316	Find the garage	280x280x9
34.	1317	Compare and select	280x280x9
35.	1318	Dispose in space	280x280x9
36.	1319	Merging of colors	230x330x9
37.	1400	Child's play	205x295x9
38.	1401	Bathroom	205x295x9
39.	1402	Bees	330x240x9
40.	1404	Doggy with kennel	295x205x9
41.	1405	Sea animals	295x205x9
42.	1406	Animals	295x205x9



No	Code	Description of toys	Dimensions of toy, mm
43.	1407	Cat and the kitten	295x205x9
44.	1408	Raccoons	295x205x9
45.	1409	Female chick	295x205x9
46.	1411	Fantastic travels	330x240x9
47.	1412	Dalmatian	295x245x9
48.	1413	Lion	295x245x9
49.	1414	Elephants	295x205x9
50.	1415	Fruit, vegetables Breakfast	295x205x9
51.	1416	Crayons	BOX 205x145x55
52.	1417	Time relations	BOX 205x145x55
53.	1418	Light and shade	BOX 271x220x55
54.	1419	Before & after	BOX 271x220x55
55.	1420	Farm	205x295x9
56.	1421	Who lives where	205x295x9
57.	1422	Bisected fruit	205x295x9
58.	1423	Breakfast	205x295x9
59.	1424	Big house	205x295x9
60.	1425	Motor car	205x295x9
61.	1426	School bus	205x295x9
62.	1427	Firemen	205x295x9
63.	1430	City+ Park	BOX 350x280x55
64.	1431	City	BOX 350x280x55
65.	1432	Park	BOX 350x280x55
66.	1433	Building site	BOX 350x280x55
67.	1434	Exotic animals	295x205x9
68.	1440	Ecology	200x200x9
69.	1445	Biology	200x200x9
70.	1446	A tree & its parts	200x200x9
71.	1447	A flower & its parts	200x200x9
72.	1450	Big puzzle-boy	750x500x5
73.	1451	Big boy	750x500x5
74.	1462	Bear-cub	250x200x5
75.	1463	Fish	250x200x5
76.	1470	Apples	295x95x9
77.	1471	Chickens	295x95x9
78.	1472	Dog	295x95x9
79.	1473	My morning	295x95x9
80.	1474	Seasons	295x95x9
81.	1475	Child's play	295x95x9
82.	1476	Fruit	295x95x9
83.	1477	Farm	295x95x9
84.	1478	Cubs	295x95x9
85.	1480	Funny animals	145x145x9
86.	1501	Dominoes "Animals"	BOX 205x145x55
87.	1502	Dominoes "Shades"	BOX 205x145x55
88.	1503	Dominoes "Relation"	BOX 205x145x55
89.	1504	Dominoes "Opposites"	BOX 360x180x45
90.	1505	Dominoes "Sense Organs"	BOX 360x180x45
91.	1507	"Basya"	BOX 210x145x55
92.	1508	Dominoes "Numbers & Figures"	BOX 215x180x45
93.	1509	Draughts "Mouse-cat"	370x370x5



N^o	Code	Description of toys	Dimensions of toy, mm
94.	1510	Draughts "Cat-Dog"	370x370x5
95.	1511	Dominoes "Actions order"	BOX 360x180x45
96.	1513	Learn to count	BOX 362x182x60
97.	1514	Hard currency	BOX 388x284x60
98.	1601	Animals	BOX 205x145x55
99.	1602	Look, listen	BOX 360x180x45
100.	1603	Sounds of outward things	BOX 385x280x55
101.	1604	Man and it's surroundings	BOX 385x280x55
102.	1605	Musical instruments tones	BOX 205x145x55
103.	1610	Lotto: Vegetables, fruit, berries	BOX 205x145x55
104.	1611	Lotto: "Quantity/number"	BOX 205x145x55
105.	1630	Book: Boot	140x140x30
106.	1640	Book: Hen	140x140x30
107.	33570	Calendar (All the year round)	440x630x9
108.	33571	We are on duty	450x330x9
109.	33572	Little locks	350x500x13
110.	5000	We play at Zoo – Volumetric figures	BOX 205x145x55
111.	5001	Hands(Fingers)	400x200x4
112.	5002	Tactile hands	BOX 280x385x55
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118.	5011	Clown	493x295x9
119.	5012	Engl. Worm	490x295x9
120.	5013	Europe map	410x295x9
121.	5014	Continents map	500x365x9
122.	5015	Caterpillar	413x295x9
123.	5018	Counting sticks	300x600x9
124.	5025	Road signs	Box 240x190x60
125.	5027	Planets	410x300x9
126.	5030	Make a picture	Box 178x98x40
127.	5031	Turnip theater	Box 270x218x55
128.	5032	Make a chain	Box 250x236x55
129.	5033	Kolobok theater	Box 270x218x55
130.	5035	Small tower theater	Box 270x218x55
131.	5036	Geometric	65x230x75
132.	5038	Knocker	135x220x90
133.	11465	Game –Biological bureau	490x350x160
134.	11466	Game –Geometrical bureau	490x350x270
135.	6026	Child's cymbals	370x202x40
136.	6027	Xylophone	240x340x40
137.	3002	Table theater screen	295x450x6

New article:

N^o	Code	Description of toys	Dimensions of toy (mm)
1.	5040	Clock	
2.	446-0	Basis for panels	595x70x1230
3.	446-1	Game panel Target hand bell	575x680x9
4.	446-2	Game panel Lacing embroidery	575x680x9



N^o	Code	Description of toys	Dimensions of toy (mm)
5.	446-3	Game panel Labyrinth	575x680x9
6.	446-4	Game panel Shooting gallery theater	575x680x9
7.	446-5	Game panel Pirate	575x680x9
8.	446-6	Game panel Hunter	575x680x9
9.	446-7	Game panel A mouse in cheese	575x680x9
10.	446-8	Game panel To throw rings	575x680x9
11.	446-9	Game panel Magnetic board	575x680x9
12.	446-10	Game panel Houses	575x680x9
13.	3005	Sensino	640x74x1230
14.	11467	Game Intoshka	685x445x870
15.	1624-1	Constructor "Sam" set No.1	1600x480x200
16.	1624-2	Constructor "Sam" set No.2	2280x480x200
17.	1624-3	Constructor "Sam" set No.3	1400x480x700
18.	1624-4	Constructor "Sam" set No.4	1400x480x700
19.	1624-5	Constructor "Sam" set No.5	1400x480x700
20.	1624-6	Constructor "Sam" set No.6	680x440x720
21.	1624-7	Constructor "Sam" set No.7	580x280x280
22.	1624-8	Constructor "Sam" set No.8	580x280x280
23.	1624-9	Constructor "Sam" set No.9	1480x580x290
24.	1624-10	Constructor "Sam" set No.10	320x320x240
25.	1624-11	Constructor "Sam" set No.11	1480x960x160
26.	1624-12	Constructor "Sam" set No.12	680x580x280
27.	1624-13	Constructor "Sam" set No.13	860x680x580
28.	1624-14	Constructor "Sam" set No.14	1000x360x320
29.	1624-15	Constructor "Sam" set No.15	680x450x400
30.	1624-16	Constructor "Sam" set No.16	680x450x400

2. Conformity of product properties with specified regulation

2.1 Specification

	<i>Document</i>	
1	EN 71-1:2014	Safety of toys – Part 1: Mechanical and physical properties
2	EN 71-2+A1:2014	Safety of toys – Part 2: Flammability
3	EN 71-3+A1:2014	Safety of toys – Part 3: Migration of certain elements
4	EN 71-9+A1:2007	Safety of toys – Part 9: organic chemical compounds - Requirements
5	REACH , Annex XVII	Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; content of PAHs (polycyclic aromatic amines (art.50)

2.2. Place and method of sampling

The samples were delivered by the client. They were taken in compliance with ITC Body's instructions by random selection of representative samples from the goods delivered.

2.3. Place and date of tests

All tests were performed in the Accredited laboratory No.1004, ITC a.s., Zlin, Czech Republic.



2.4 Test results and their comparison with requirements

The meaning of the abbreviation in the column "Assessment" is as follows:

- **M** = Meets the requirement
- **F** = Failed to meet the requirement
- **n/a** = not/applicable (irrelevant requirement for the toy in question)
- **M*** = Conformity assessed by an ITC expert

2.4.1 Mechanical and physical properties to EN 71-1+A2

Serial number	Part tested	Plastic toys 3 years up
4.1	Materials	M*
4.7	Edges	M*
5.	Toys intended for children under 36 months	n/a
5.8	Shape and size of certain toys	n/a
6.	Packing	M*
7.1	Warning and instructions for use General	M*
7.2	Toys not intended for children under 36 months	M*

The results have been taken from the Document D3, D4 – see Chapter 4.

2.4.2. Flammability according to EN 71-2

Specified paragraph	Evaluated aspect of the toy safety	Plastic toys 3 years up
4.1	General (absence of nitrocellulose or other similarly flammable material)	M*
4.2	Beards, moustaches, wigs	n/a
4.3	Disguise costumes	n/a
4.4	Toys designed to be entered by a child	n/a
4.5	Stuffed soft toys	n/a

The results have been taken from the Document D3, D4 – see Chapter 4.

2.4.3 Migration of certain elements according to EN 71-3

Specified paragraph	Evaluated aspect of the toy safety	Wooden toys
8.1	Coatings of paints, varnishes, lacquers, printing inks and similar coatings	M
8.2	Plastics	M
8.3	Paper and board	n/a
8.4	Textiles	M
8.5	Glass, ceramics, metal	n/a
8.6	Other materials	n/a
8.7	Crayons, chalks, felt-tipped pens	n/a
8.8	Pliable modeling materials	n/a
8.9	Hand-applied coatings	n/a

The results have been taken from the Document D2, D4 – see Chapter 4.



Testing samples:

Wooden parts of toys, plastic parts, textile – cord.

Results of testing are included in Final report No.713301463/2012 and in Report No.313300758.

2.4.3.1 Determination of migration certain elements according to EN 71-3

Table - A Migration of certain elements –samples A 2420

Wooden toys - color yellow, red

Element	Migration limit (mg/kg)			Identified value (mg/kg)	
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Wood yellow	Wood red
Aluminium(Al)	5 625	1 406	70 000	< 300,0	< 300,0
Antimony (Sb)	45	11,3	560	< 10,0	< 10,0
Arsenic (As)	3,8	0,9	47	< 3,0	< 3,0
Barium (Ba)	4 500	1 125	56 000	< 40,0	< 40,0
Boron (B)	1 200	300	15 000	-	-
Cadmium (Cd)	1,9	0,5	23	< 1,9	< 1,9
Chromium (Cr)	-	-	-	< 15,0	< 15,0
Chromium III (CrIII)	37,5	9,4	460	- ^{d)}	- ^{d)}
Chromium VI (CrVI)	0,02	0,005	0,2	- ^{d)}	- ^{d)}
Cobalt (Co)	10,5	2,6	130	< 5,0	< 5,0
Copper (Cu)	622,5	156	7 700	< 5,0	< 5,0
Lead (Pb)	13,5	3,4	160	< 5,0	< 5,0
Manganese (Mn)	1 200	300	15 000	< 5,0	< 5,0
Mercury (Hg)	7,5	1,9	94	< 2,0	< 2,0
Nickel (Ni)	75	18,8	930	< 5,0	< 5,0
Selenium (Se)	37,5	9,4	460	< 5,0	< 5,0
Strontium (Sr)	4 500	1 125	56 000	< 5,0	< 5,0
Tin total (Sn)	15 000	3 750	180 000	< 10,0	< 10,0
Organic Tin (Sn org.)	0,9	0,2	12	- ^{e)}	- ^{e)}
Zinc (Zn)	3 750	938	46 000	< 10,0	< 10,0

Table B

Migration of certain elements –samples A 2420

Wooden toys – others parts (plastic yellow, textile cord)

Element	Migration limit (mg/kg)			Identified value (mg/kg)	
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Plastic yellow	Textile cord-red
Aluminium(Al)	5 625	1 406	70 000	< 300,0	< 300,0
Antimony (Sb)	45	11,3	560	< 10,0	< 10,0
Arsenic (As)	3,8	0,9	47	< 3,0	< 3,0
Barium (Ba)	4 500	1 125	56 000	< 40,0	< 40,0



Element	Migration limit (mg/kg)			Identified value (mg/kg)	
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Plastic yellow	Textile cord-red
Boron (B)	1 200	300	15 000	-	-
Cadmium (Cd)	1,9	0,5	23	< 1,9	< 1,9
Chromium (Cr)	-	-	-	< 15,0	< 15,0
Chromium III (CrIII)	37,5	9,4	460	- ^{d)}	- ^{d)}
Chromium VI (CrVI)	0,02	0,005	0,2	- ^{d)}	- ^{d)}
Cobalt (Co)	10,5	2,6	130	< 5,0	< 5,0
Copper (Cu)	622,5	156	7 700	< 5,0	< 5,0
Lead (Pb)	13,5	3,4	160	< 5,0	< 5,0
Manganese (Mn)	1 200	300	15 000	< 5,0	< 5,0
Mercury (Hg)	7,5	1,9	94	< 2,0	< 2,0
Nickel (Ni)	75	18,8	930	< 5,0	< 5,0
Selenium (Se)	37,5	9,4	460	< 5,0	< 5,0
Strontium (Sr)	4 500	1 125	56 000	< 5,0	< 5,0
Tin total (Sn)	15 000	3 750	180 000	< 10,0	< 10,0
Organic Tin (Sn org.)	0,9	0,2	12	- ^{e)}	- ^{e)}
Zinc (Zn)	3 750	938	46 000	< 10,0	< 10,0

Table C Migration of certain elements –samples A 2420
Wooden toys – wood colour green, blue

Element	Migration limit (mg/kg)			Identified value (mg/kg)	
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Wood green	Wood blue
Aluminium(Al)	5 625	1 406	70 000	< 300,0	< 300,0
Antimony (Sb)	45	11,3	560	< 10,0	< 10,0
Arsenic (As)	3,8	0,9	47	< 3,0	< 3,0
Barium (Ba)	4 500	1 125	56 000	< 40,0	< 40,0
Boron (B)	1 200	300	15 000	-	-
Cadmium (Cd)	1,9	0,5	23	< 1,9	< 1,9
Chromium (Cr)	-	-	-	< 15,0	< 15,0
Chromium III (CrIII)	37,5	9,4	460	- ^{d)}	- ^{d)}
Chromium VI (CrVI)	0,02	0,005	0,2	- ^{d)}	- ^{d)}
Cobalt (Co)	10,5	2,6	130	< 5,0	< 5,0
Copper (Cu)	622,5	156	7 700	< 5,0	< 5,0
Lead (Pb)	13,5	3,4	160	< 5,0	< 5,0
Manganese (Mn)	1 200	300	15 000	< 5,0	< 5,0
Mercury (Hg)	7,5	1,9	94	< 2,0	< 2,0
Nickel (Ni)	75	18,8	930	< 5,0	< 5,0



Element	Migration limit (mg/kg)			Identified value (mg/kg)	
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Wood green	Wood blue
Selenium (Se)	37,5	9,4	460	< 5,0	< 5,0
Strontium (Sr)	4 500	1 125	56 000	< 5,0	< 5,0
Tin total (Sn)	15 000	3 750	180 000	< 10,0	< 10,0
Organic Tin (Sn org.)	0,9	0,2	12	- ^{e)}	- ^{e)}
Zinc (Zn)	3 750	938	46 000	< 10,0	< 10,0

**Table D Migration of certain elements –samples A 2420
Wooden toys – wood orange**

Element	Migration limit (mg/kg)			Identified value (mg/kg)
	Dry toy material ^{a)}	Sticky toy material ^{b)}	Scrapped- of material of toy ^{c)}	Wood orange
Aluminium(Al)	5 625	1 406	70 000	< 300,0
Antimony (Sb)	45	11,3	560	22,5
Arsenic (As)	3,8	0,9	47	< 3,0
Barium (Ba)	4 500	1 125	56 000	15,4
Boron (B)	1 200	300	15 000	-
Cadmium (Cd)	1,9	0,5	23	< 1,9
Chromium (Cr)	-	-	-	< 15,0
Chromium III (CrIII)	37,5	9,4	460	- ^{d)}
Chromium VI (CrVI)	0,02	0,005	0,2	- ^{d)}
Cobalt (Co)	10,5	2,6	130	< 5,0
Copper (Cu)	622,5	156	7 700	< 5,0
Lead (Pb)	13,5	3,4	160	< 5,0
Manganese (Mn)	1 200	300	15 000	26,5
Mercury (Hg)	7,5	1,9	94	< 2,0
Nickel (Ni)	75	18,8	930	24,1
Selenium (Se)	37,5	9,4	460	< 5,0
Strontium (Sr)	4 500	1 125	56 000	< 5,0
Tin total (Sn)	15 000	3 750	180 000	< 10,0
Organic Tin (Sn org.)	0,9	0,2	12	- ^{e)}
Zinc (Zn)	3 750	938	46 000	< 10,0

The results are taken from the documentation D4

Notes:

- a) Limits for pro dry, brittle, powder-like or pliable toy material
- b) Limits for liquid or sticky toy material
- c) Limits for scraped-off toy material
- d) Meet the limits value is given by the total contain of chromium in the sample
- e) Meet the limits value is given by the total contain of tin in the sample
- f) Meet the limits value is declared in the manufacturer's technical documentation



Table E Migration of certain elements – samples
Wooden toys – A 5265

Parameter	Unit	Scrapped- of material of toy	Red plastic	Yellow cord	Plywood red	Plywood blue	Plywood brown	Plywood green, blue striped
Aluminium (Al)	mg/kg	70 000	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0
Antimony (Sb)	mg/kg	560	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Arzenic (As)	mg/kg	47	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Barium (Ba)	mg/kg	18 750	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0
Boron (B)	mg/kg	15 000	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Cadmium (Cd)	mg/kg	17	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20
Chromium (global)	mg/kg	-	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Chromium (Cr III)	mg/kg	460	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Chromium (Cr VI)	mg/kg	0,2	< 0,005	< 0,005	< 0,005	< 0,005	< 0,005	< 0,005
Cobalt (Co)	mg/kg	130	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Copper (Cu)	mg/kg	7 700	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Lead (Pb)	mg/kg	160	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Manganese (Mn)	mg/kg	15 000	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Mercury (Hg)	mg/kg	94	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Nickel (Ni)	mg/kg	930	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Selenium (Se)	mg/kg	460	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50	< 0,50
Strontium (Sr)	mg/kg	56 000	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0	< 5,0
Tin (Sn) – (global)	mg/kg	180 000	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20
Organic Tin (Sn)	mg/kg	12	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20	< 0,20
Zinc (Zn)	mg/kg	46 000	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0	< 20,0

The results are taken from the documentation D2

2.4.4. Organic chemical compounds according to EN 71-9
Applied tables of limits

Table No.	Evaluated organic chemical compound group	Assessment
2A	Flame retardants	n/a
2B	Colourants	n/a
2C	Primary aromatic amines	n/a
2D	Monomers	n/a
2E	Solvents - migration	n/a
2F	Solvents – inhalation	n/a



Table No.	Evaluated organic chemical compound group	Assessment
2G/a	Wood preservatives (a)	M
2G/b	Wood preservatives (b)	n/a
2H	Preservatives (other than wood preservatives)	n/a
2I	Plasticizers	n/a

Table of EN 71-9 : Determination of 2G a) – Wood preservatives (sample A 2024)

Organic compound	Limit (mg/kg)	Identified value (mg/kg)
		Wooden toys
Pentachlorophenol and its salts	not detected	< 2,0
- 2,4 – dichlor phenol		< 2,0
- 2,4,6 – trichlor phenol		< 2,0
- 2,4,5 – trichlor phenol		< 2,0
- 2,3,4,6- tetrachlorophenol ol and its salts		< 1,0
Lindane	not detected	< 2,0

The results are taken from the documentation D4

Determination of formaldehyde : EN 71-9 art.4.3 (sample A 2024)

Parameter	Unit	Result	Limit
Content of formaldehyde	mg/kg	< 5,0	max.80

The results are taken from the documentation D4

2.4.5 Determination of PAHs

Parameter	Unit	Sample	Limit
Benzo(a)pyren	mg/kg	< 0,20	0,5
Benzo(e)pyren	mg/kg	< 0,20	0,5
Benzo(a)antracen	mg/kg	< 0,20	0,5
Chrysen	mg/kg	< 0,20	0,5
Benzo(b+j)fluoranten	mg/kg	< 0,40	0,5
Benzo(k)fluoranten	mg/kg	< 0,20	0,5
Dibenzo(a,h)antracen	mg/kg	< 0,20	0,5

The results have been taken from the Document D2 – see Chapter 4.

3. Conclusion

The product „**Wooden toys**” (specified in Table 1) comply in all requirements of technical regulations (Table 2).

4. List of related documents

- D1 Application No. 313300758 from 2017-03-10
- D2 Test report No. 313300758 from 2017-04-06
- D3 Verification report No. 313300758 from 2017-04-06
- D4 Final report No. 713301463/2012

5. Color pictures of toys





1421



1422



1423



1424



1425



1426



1426a



1427



1431b



1432a



1433a



1440



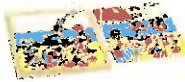
1440_1



1440a



1440b



1440c



1440d



1440e



1445a



1445b



1445c



1450



1451



1451a



1462



1462a



1463



1463a



1463b



1463c



1470



1470a



1471



1471a



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1474



1474a



1474b

