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TEST REPORT No. BBC 19-092

01 03 2019
Vilnius

Determination of stability, strength, durability for
Children's cot YappyQu

Customer	SIA Yappy Kids
Address of customer	Zemitana iela 9, LV-1012 Riga, Latvia
Application for test	A 19-015-1, date 23 01 2019
Date of receive test object	23 01 2019, sampling was made by the Customer
Manufacturer name	SIA Yappy Kids
Indication of normative document	EN 716-1:2017, EN 716-2:2017
Date of test	23 01 2019 (beginning) 01 03 2019 (end)

Conclusion

Children's cot YappyQu **complies** with the standard EN 716-1:2017 "Furniture - Children's cots and folding cots for domestic use - Part 1: Safety requirements" requirements.

Clause 4.2 *Materials* was not tested, manufacturer provided verification documents, see annex A and annex B at the end of this report.

Test object

Children's cot YappyQu with movable front side part and height adjustable sleeping base (three positions). Legs are made of (72x25) mm beech wood and there are castors with stops fixed at the bottom of legs. Frames of sides are made of (25x25) mm, (21x34) mm and (17x32) mm, frame of sleeping base is made of (34x17) mm and (25x29) mm beech wood. Vertical safety elements of sides and ends and slats of sleeping base are made of (35x10) mm beech wood. Three elements in the middle are removable. Fastenings are used to connect sleeping base with cot ends.

External dimensions of cot are: length 1250 mm, depth 685 mm, height 980 mm. Dimensions are for general information only.





Figure 1. Children's cot YappyQu



Test method

EN 716-1:2017 Furniture - Children's cots and folding cots for domestic use - Part 1: Safety requirements.

EN 716-2:2017 Furniture - Children's cots and folding cots for domestic use - Part 2: Test methods

Test apparatuses

Apparatus 194 MP certificate No. 27, apparatus 241 MP certificate No. 22, apparatus 645 MB certificate No. 1, apparatus 115 P certificate No. 8.

Unless otherwise stated, the following tolerances are applicable:

- forces $\pm 5\%$ of the nominal force;
- masses $\pm 0,5\%$ of the nominal mass;
- dimensions $\pm 1,0$ mm of the nominal dimension;
- angles $\pm 2^\circ$ of the nominal angle.
- positioning of loading pads ± 5 mm;
- duration of forces: (2 ± 1) s for durability tests
 (10 ± 2) s for static load tests, including tension, torque and bite tests.

Children's cot YappyQu was stored in the laboratory room before the tests was performing. The tests were carried out in normal indoor ambient conditions at the temperature of $(20 \pm 5)^\circ\text{C}$.

Table 1. Children's cot YappyQu test results

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.2 Materials, EN 716-1:2017		EN 716-1:2017		
4.2.1	Materials and surfaces The manufacturer/importer/retailer	shall provide verification that all accessible parts meet the relevant requirements from EN 71-3	not tested, Manufacturer provided verification document, see Annex A	pass
4.2.2 5.4 EN 71-2:2006 EN 1103	Flammability of textiles, coated textiles and plastics coverings	the maximum rate of spread of flame of textiles, coated textiles or plastic coverings shall be 30 mm/s. When tested in accordance with EN 1103, there shall be no flash-effect.	not tested, Manufacturer provided verification document, see Annex B	pass
4.3 Initial stability, EN 716-1:2017		EN 716-1:2017		
4.3 EN 716-1:2017 5.2 EN 716-2:2017	Stability – test - test mass of 10 kg - horizontally outwards force of 30 N	the cot shall not overturn, 4.3	not overturns	pass
4.4 Construction, EN 716-1:2017		EN 716-1:2017		
4.4.1.1 EN 716-1:2017	Edges and protruding parts accessible during normal use	shall be rounded or chamfered and free of burrs and sharp edges, 4.4.1.1	no remarks	pass
4.4.1.2 EN 716-1:2017	Self-tapping screws	shall not be used to fasten any component that is designed to be removed or loosened when dismantling the cot for purposes of transportation or storage, 4.4.1.2		N/A
4.4.1.3 EN 716-1:2017	Labels and decals Glued labels and decals	shall not be used on the internal surfaces of cot sides and ends unless they are, below the level of the cot base or mattress base, 4.4.1.3	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.4.1.4 Small parts, EN 716-1:2017		EN 716-1:2017		
5.5.2 EN 716-2:2017	Torque test	no accessible part that can be detached shall fit wholly within the small parts cylinder, 4.4.1.4		N/A
5.5.3 EN 716-2:2017	Tension test			N/A
4.4.1.5 Castors and wheels, EN 716-1:2017		EN 716-1:2017		
4.4.1.5 EN 716-1:2017	Castors and wheels	shall not be fitted except in the following configuration, either: a) two or more castors/wheels and at least two other support points, or, b) at least four castors/wheels, of which at least two can be locked, 4.4.1.5	4 castors are fitted, all with locking function	pass
4.4.2 Holes, gaps and openings on the inside of the cot, EN 716-1:2017		EN 716-1:2017		
4.4.2.2 EN 716-1:2017	Assembly holes - cylindrical probe of 7 mm with force of 30 N; - cylindrical probe of 12 mm with no force	shall be no accessible holes between 7 mm diameter and 12 mm diameter, unless the depth is less than 10 mm, 4.4.2.2	no remarks	pass
4.4.2.3 EN 716-1:2017 5.4.1 EN 716-2:2017	Distance between cot base and sides and ends - cone of 25 mm with force of 30 N	shall not be possible for the 25 mm cone to pass between the cot base and the sides, and between the cot base and the ends, 4.4.2.3	no remarks	pass
4.4.2.4 EN 716-1:2017 5.4.1 EN 716-2:2017	Openings in mesh sides and ends - cone of 7 mm with force of 30 N	shall not be possible for the 7 mm cone to pass through the holes of the mesh, 4.4.2.4		N/A
4.4.2.5 EN 716-1:2017 5.4.1 EN 716-2:2017	Distance between slats of the cot base - cone of 60 mm with force of 30 N	shall not be possible for the 60 mm cone to pass between two adjacent slats of the cot base, 4.4.2.5	no remarks	pass
4.4.2.6 EN 716-1:2017 5.4.1 EN 716-2:2017	Openings in mesh of the cot base - cone of 85 mm with force of 90 N	shall not be possible for the 85 mm cone to pass through a cot base made of mesh, 4.4.2.6		N/A
4.4.2.1 EN 716-1:2017 5.4.1 EN 716-2:2017	All other accessible holes, gaps and openings - cylindrical probe of 7 mm and cones of 25 mm and 65 mm with force of 30 N - cylindrical probe of 12 mm and cone of 45 mm with no force	shall be less than 7 mm, between 12 mm and 25 mm, or between 45 mm and 65 mm, 4.4.2.1	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.4.3 Head entrapment on the outside of the cot, EN 716-1:2017		EN 716-1:2017		
4.4.3 EN 716-1:2017 5.4.2 EN 716-2:2017	Head entrapment on the outside of the cot - small head probe with the highest force possible up to 30 N - large head probe with a force of up to 5 N Partially bound, V and irregular shaped openings	completely bound openings on the outside (exterior) of the cot that allow passage of the small head probe, shall also allow the large head probe to pass completely through the bound opening; completely bound openings that allow the large probe to pass completely through shall comply with the requirement for partially bound, V and irregular shaped openings, 4.4.3 shall be constructed so that: a) portion B of the template does not enter the opening or b) apex of portion A of the template contacts the base of the opening, 4.4.3	no remarks	pass
4.4.4 Shear and squeeze points, EN 716-1:2017		EN 716-1:2017		
4.4.4.1 EN 716-1:2017	Shear and squeeze points when setting up and folding	If 4.4.4.2 or 4.4.4.3 are not applicable, shear and squeeze points that are created only when setting up or folding are permitted, 4.4.4.1	no remarks	pass
4.4.4.2 EN 716-1:2017	Shear and squeeze points under the influence of powered mechanisms	the distance between two accessible parts moving relative to each other shall always be greater than 18 mm or smaller than 5 mm, 4.4.4.2		N/A
4.4.4.3 EN 716-1:2017 5.9.1 EN 716-2:2017	Shear and squeeze points during use	shall be no accessible shear and squeeze points which close to less than 18 mm unless they are always less than 5 mm during the last load application, 4.4.4.3	no remarks	pass
4.4.5 Snag points, EN 716-1:2017		EN 716-1:2017		
5.10 EN 716-2:2017	Snag points	the mass shall not be supported by any part accessible from inside the cot. Parts of cot sides and ends more than 1 400 mm above the cot base are considered not accessible, 4.4.5	no remarks	pass
4.4.6 Locking systems, EN 716-1:2017		EN 716-1:2017		
4.4.6.1 EN 716-1:2017	Locking systems for folding cots	Folding cots that fold towards the inside shall be equipped with at least two locking systems fulfilling the requirements of 4.4.6.2, 4.4.6.1 all other folding cots shall be equipped with a locking system fulfilling the requirements of 4.4.6.2, 4.4.6.1		N/A
5.11.2 EN 716-2:2017	Strength of locking mechanism - force of 200 N - 5 times for 2 min	the cot shall not fold and the locking system shall fulfil its function, 4.4.6.1		N/A



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.4.6.2 EN 716-1:2017 5.11.1 EN 716-2:2017	All locking systems	With the exception of the locks on castors/wheels, all locking systems shall: a) have a residual force of at least 50 N (tangential when relevant) for operation when tested in accordance with EN 716-2:2017, 5.11 or	no remarks	pass
		b) require at least two consecutive actions operating on different principles, the second being dependent on the first having been carried out and maintained; or	no remarks	pass
		c) require at least two separate but simultaneous actions operating on different principles; or		N/A
		d) have two operating devices separated by a distance of at least 850 mm and required to be operated simultaneously; or		N/A
		e) require the cot base to be lifted to allow folding of the cot. If the weight of the child on the cot base has a positive effect on the locking, this is accepted as an operating device.		N/A
5.11.1 EN 716-2:2017	Durability - operate the locking mechanism 300 times	The locking system shall fulfil its function before and after testing, 4.4.6.2	no remarks	pass
4.4.7 Cot base, EN 716-1:2017		EN 716-1:2017		
4.4.7.1 EN 716-1:2017 5.7.1 EN 716-2:2017	Folding mattress base and cot base - pulling or pushing force of 50 N	any folding mattress base or cot base shall not fold, 4.4.7.1		N/A
4.4.7.2 EN 716-1:2017	Adjustable cot base	if the cot base is adjustable, adjustment from a higher position to a lower position shall require the use of a tool or operation of a locking system, which fulfils the requirements of 4.4.6.2., 4.4.7.2	no remarks	pass
4.4.7.3 EN 716-1:2017 5.7.2 EN 716-2:2017	Strength of the cot base - impact distance of 150 mm above the base - 1 000 times at the positions a) to f)	no element of the cot base shall break, nor shall the cot base become dislodged and the function of the cot shall not be impaired, 4.4.7.3	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.4.8 Sides and ends, EN 716-1:2017		EN 716-1:2017		
4.4.8.1 EN 716-1:2017	Movable sides	shall be provided with a locking system fulfilling the requirements of 4.4.6.2. The locking system shall engage automatically when the movable side is adjusted to its highest position, 4.4.8.1	locking system of type b) according to clause 4.4.6.2.	pass
	To avoid entrapment hazards when the movable side is in the lowest position one of the following conditions shall be met:	a) The locking system shall fulfil the requirements of 4.4.6.2, and shall engage automatically when the movable side is in its lowest position; or	no remarks	pass
		b) in its lowest position, the lower component of the movable side is always above the bed base or mattress base; or		N/A
		c) when the movable side is in the lowest position the gap between the lower component of the movable side and the ground or any other component below is always greater than 223 mm, 4.4.8.1		N/A
4.4.8.2 EN 716-1:2017 5.9.1 EN 716-2:2017	Distance between footholds and top of cot sides and ends - force of 300 N 10 times	under load, the distance between the upper side of the mattress base and the upper edge of the cot side and end shall be at least 500 mm, 4.4.8.2	no remarks	pass
4.4.8.2 EN 716-1:2017	With the mattress base and the sides/ends in the highest position	the minimum vertical distance between the upper side of the mattress base and the upper edge of the cot side and end shall be at least 200 mm, 4.4.8.2	no remarks	pass
4.4.8.2 EN 716-1:2017 5.3.3 EN 716-2:2017	Measurement of distance between footholds and/or top of cot sides and ends	the minimum distance between the top of any foothold and the upper edge of the cot side and end shall be at least 500 mm, 4.4.8.2	no remarks	pass
4.4.8.2 EN 716-1:2017	If the mattress is not an integral part of the cot	the measurement shall be made from the mark of the maximum thickness of the mattress (see Clause 6 j) and the upper edge of the cot side and end; or if the indication of the maximum thickness of the mattress is provided by a text, the measurement shall be made from the top surface of the cot base and the upper edge of the cot side and end, minus the maximum thickness of the mattress (see Clause 6 j)	measurements were taken considering maximum thickness of the mattress of 100 mm, maximum thickness is marked on the cot, included in the instructions	pass



Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
4.4.8.3 Strength of side and end components, EN 716-1:2017		EN 716-1:2017		
5.8.1 EN 716-2:2017	Static load test of slats (bending test) - horizontal force of 250 N for 30 s	the slats or sides and ends and corners shall neither break nor become detached. The function of the cot shall not be impaired, 4.4.8.3	no remarks	pass
5.8.2 EN 716-2:2017	Strength of sides or side slats - height of 200 mm below the top edge of the side - 10 times for one impact point		no remarks	pass
5.8.3 EN 716-2:2017	Strength of corners (impact test) - impacter angle of 60° to the vertical - 5 impacts at each side member in each corner from inside the cot and five impacts from outside the cot at each position		no remarks	pass
5.8.4 EN 716-2:2017	Strength of mesh and flexible sides and ends (static load test) - horizontal outwards force of 250 N - 3 times for 30 s	the threads of the mesh and other flexible materials, e.g. fabrics, plastics shall not break and the function of the cot shall not be impaired, 4.4.8.3		N/A
4.4.8.4 Strength of frame and fastenings, EN 716-1:2017		EN 716-1:2017		
5.9.1 EN 716-2:2017	Vertical static load test - force of 300 N - 10 times	there shall be no breakage. The function of the cot shall not be impaired, 4.4.8.4	no remarks	pass
5.9.2 EN 716-2:2017	Durability test - mass of 20 kg - forces of 100 N in the directions A, B, C, D - 2 000 cycles		no remarks	pass
4.4.9 Cot rim, EN 716-1:2017		EN 716-1:2017		
5.6 EN 716-2:2017	Bite test - pulling force of 50 N, maintaining for 10 s	no filling shall be removed from the cot rim, 4.4.9		N/A
4.5 Final stability, EN 716-1:2017		EN 716-1:2017		
5.12, 5.2 EN 716-2:2017	Stability test - test mass of 10 kg - horizontally outwards force of 30 N	the cot shall not overturn, 4.5	no remarks	pass
4.6 Mattress size, EN 716-1:2017		EN 716-1:2017		
4.6, 6 EN 716-1:2017	If a mattress is supplied with the cot	the length and width shall be such that the gap between the mattress and the sides and ends does not exceed 30 mm, 4.6, 6 l)		N/A
5 Packaging, EN 716-1:2017		EN 716-1:2017		
5 EN 716-1:2017	Any plastic covering used as packaging for cots, folding cots or mattresses, if applicable, that does not fulfil the requirements of EN 71-1	shall be conspicuously marked with the following information or its equivalent: "To avoid danger of suffocation keep this plastic bag away from babies and children.", 5		N/A

Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
6 Instructions for use, EN 716-1:2017		EN 716-1:2017		
6 EN 716-1:2017	Instructions shall be provided in the official language(s) of the country where the cot is sold	These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY" in letters not less than 5 mm high.	no remarks	pass
	Warnings The instructions for use shall include the following warnings:	a) Warning: Be aware of the risk of open fire and other sources of strong heat, such as electric bar fires, gas fires, etc. in the near vicinity of the cot;	no remarks	pass
		b) Warning: Do not use the cot if any part is broken, torn or missing and use only spare parts approved by the manufacturer;	no remarks	pass
		c) Warning: Do not leave anything in the cot or place the cot close to another product, which could provide a foothold or present a danger of suffocation or strangulation, e.g. strings, blind/curtain cords;	no remarks	pass
		d) Warning: Do not use more than one mattress in the cot	no remarks	pass
	The instructions for use shall include the following statements:	e) Statement that a cot is ready for use, only when the locking mechanisms are engaged and to check carefully that they are fully engaged before using the folding cot;	no remarks	pass
		f) If the height of the cot base is adjustable, a statement that the lowest position is the safest and that the base should always be used in that position as soon as the baby is old enough to sit up;	no remarks	pass
		g) When movable sides are provided, a statement that "if you leave the child unattended in the cot, always make sure that the movable side is closed";	no remarks	pass
		h) Where detachable support rails are provided to support the cot base above its lowest position, a statement that it is essential to remove these rails before the cot is used in its lowest position;		N/A
		i) Assembly drawing, a list and description of all parts and tools required for assembly and a diagram of the bolts and other fastenings required;	no remarks	pass

Table 1. (continued)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
6 Instructions for use, EN 716-1:2017		EN 716-1:2017		
6 EN 716-1:2017	The instructions for use shall include the following statements:	j) Thickness of the mattress shall be such that the internal height (surface of the mattress to the upper edge of the cot frame) is at least 500 mm in the lowest position of the cot base and at least 200 mm in the highest position of the cot base;	maximum thickness of the mattress is 100 mm, no remarks	pass
		k) Where the requirement in 6 j) is fulfilled by a mark on the cot, a statement that the mark indicates the maximum thickness of the mattress to be used with the cot;		N/A
		l) Statement about the minimum size of mattress to be used with the cot. The length and width shall be such that the gap between the mattress and the sides and ends does not exceed 30 mm;	no remarks	pass
		m) Statement that all assembly fittings should always be tightened properly and that fittings should be checked regularly and retightened as necessary;	no remarks	pass
		n) Instructions for washing/cleaning, when applicable;	no remarks	pass
		o) Statement to prevent injury from falls that when the child is able to climb out of the cot, the cot shall no longer be used for that child;	no remarks	pass
		p) The following warnings shall appear on the instruction for use of folding cots which the mattress is an integral part of the product through a mattress base. “WARNING — Only use the mattress sold with this cot, do not add a second mattress on this one, suffocation hazards” A pictogram may be added, however the pictogram won't replace the warning, 6		N/A

Table 1. (end)

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
7 Marking, EN 716-1:2017		EN 716-1:2017		
7 EN 716-1:2017	All cots for which a claim of conformity to this standard is made shall be permanently marked with the following information:			
	a) if the mattress is an integral part of the folding cot (example: mattress base):	1) the following warning shall appear on the mattress with letters with a height of 3 mm or more: "WARNING — This is a mattress, do not add a second mattress, suffocation hazards";		N/A
		2) name, registered trade name or registered trade mark of either the manufacturer or distributor or retailer together with additional means of identifying the product;		N/A
		3) reference to this EN (EN 716-1);		N/A
	b) if the mattress is not an integral part of the cot:	1) name, registered trade name or registered trade mark of either the manufacturer or distributor or retailer together with additional means of identifying the product;	no remarks	pass
		2) reference to this EN (EN 716-1);	no remarks	pass
		3) the maximum thickness of the mattress to be used; this can be in the form of text, a distinct mark on the cot at the correct height, e.g. a line, or by other means.	no remarks, maximum thickness of the mattress is 100 mm	pass
Remarks, comments				

*N/A: not applicable

Head of furniture testing centre

Manvydas Mickus

Tests were carried by engineer

Mindaugas Mickus

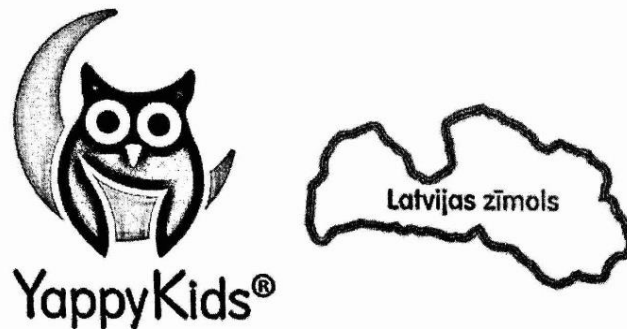


The test results is relate only to the tested items.

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Annex A

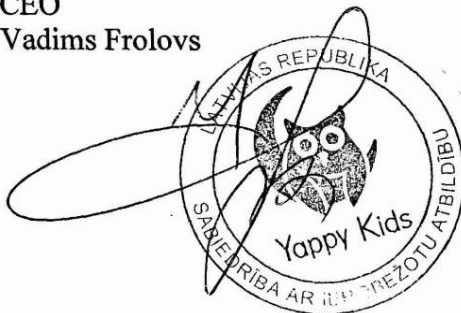
Verification letter regarding clause 4.2.1 Materials and surfaces



LETTER OF CONFIRMATION

Here by SIA Yappy Kids confirms that provided baby cot sample – YappyQu cot in WHITE colour meets the relevant requirements of EN 71-3 Migration of certain elements standart.

21.01.2019
SIA Yappy Kids
CEO
Vadims Frolovs



Annex B

Verification letter regarding clause 4.2.2 Flammability of textiles, coated textiles and plastics coverings



LETTER OF CONFIRMATION

Here by SIA Yappy Kids confirms that provided baby cot sample – YappyQu cot in WHITE colour meets the standart saying that the maximum rate of spread of flame of textiles, coated textiles or plastic coverings is less than 30 mm/s. When tested in accordance with EN 1103, there are no flash- effect.

21.01.2019
SIA Yappy Kids
CEO
Vadims Frolovs

