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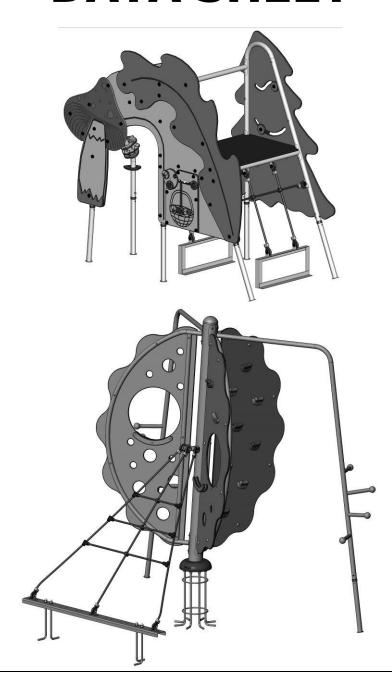
PRODUCTION AND SALE OF PLAYGROUND AND OUTDOOR EQUIPMENT

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LK621 - Playground "Forest Adventures"

LK622 – Climbing complex

DATA SHEET



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			1527			2397	
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			luct to another loc				
manufacturer's pa		- p			-,		

If long-term storage of the product is required, the following storage rules must be observed (the list of

- protect the product from external factors (dust, water drops, etc.) with a large plastic bag, leaving space for

- take other measures to preserve the appearance and characteristics of the product during storage. When removing the product from storage and preparing for installation, follow the next recommendations: - remove the product from the packaging material (polyethylene, cardboard, other packaging materials);

1.3 Manufacturer LLC«Company Sporttechnika», Ukraine, city of Chernihiv, Ushynsky St., 24.

, «

- $\mbox{\it remove}$ dust and other contaminants from the surface of the product;

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- place the product in a closed dry room with natural ventilation;

conditions is not complete):

free air circulation;

1. GENERAL INFORMATION

1.4 Serial number and production date:

1.1 Article number _

1.2 Name

- check completeness and absence of parts damage.

Storage information

Date	Date		Full name	Cianatura
Putting into storage	Removal from storage	conditions	Full name	Signature

After the end of the equipment's service life, the buyer independently determines the procedure for its use. If you decide to recycle, contact the seller or specialized organizations.

The equipment does not contain harmful impurities and materials that can harm your health and is not subject to special recycling.

6. INSPECTION AND TESTING

Before starting the operation of the product, it is visually inspected, checked: the integrity of paint coating, fasteners and structural strength.

If there are concrete support parts of the product, make sure that they are securely fixed and do not move. Check that the equipment and site are free from packaging materials, construction debris and other foreign objects.

Check the proper condition of the shock-absorbing surfaces on the playground.

7. PRODUCT MAINTENANCE

Timely maintenance of the product is the responsibility of the buyer (or a responsible person) and includes:

- 1. Daily inspection before using the product, check its performance, visual inspection for the absence of breakdowns, damage, sharp edges on components and parts, structural integrity, strength of wooden structures and element connection points, absence of unnecessary objects on the platforms. If the product is damaged, fully or partially inoperable, or otherwise defective, it is prohibited to use the product.
 - 2. Scheduled inspection is carried out every three months.

It involves a detailed visual and operational inspection of the operation and stability of the equipment, especially with regard to any wear.

In the process of inspection, they determine:

- cleanliness and appearance of the surface of the playground and equipment;
- maintaining distances from parts of the equipment to the surface of the playground;
- absence of protruding parts of the foundations;
- absence of defects/malfunctions of equipment elements;
- wear of moving parts;
- structural integrity of equipment.

Special attention should be paid to hidden and inaccessible parts of the equipment.

3. Annual inspection is held every 12 months to establish the overall safety level of the equipment.

In the process of visual and functional inspection it is determined:

- structural stability;
- integrity of the foundation;
- strength of units of item elements connection;
- wear of sliding surfaces and grips.

Special attention should be given to:

- assessing the impact of weather events;
- the presence of rot or corrosion;
- parts that are closed to access during the entire period of operation.

The results of the inspection, repair or replacement of equipment components must be recorded in the maintenance record sheet.

Maintenance recording

Date and type of inspection	Name of the work done	Remarks on the technical condition	Position, full name, signature of the responsible person

8. REPAIR AND RECORDING OF FAULTS

Replace all defective components with parts from the manufacturer.

It is forbidden to manufacture and replace components and parts of the equipment independently.

Recording malfunctions during operation

		· · · · · · · · · · · · · · · ·	
Date of failure of the product, its component part or structural element	Nature (external manifestation) of the malfunction	Corrective actions taken	Position, full name, signature of the responsible person

Information about the repair

Name of a component	The reason for	Dat	te	Name of the organisation, position, full
or structural element	the repair	Put	Out of	name, signature of the person who
	ине геран	for repair	repair	performed the repair

9. INSTRUCTIONS FOR SAFE USE

WARNING! Children are allowed on the equipment only under adult control.

Before operating the product, conduct a visual inspection, check the fasteners and structural strength.

The equipment is used on the playgrounds without constant supervision by operating personnel. In order to ensure the safe operation of the product, the owner must conduct a daily visual inspection. If malfunctions are detected during the inspection, they must be immediately eliminated, and if this is not possible, the equipment must be closed for users.

There should not be any foreign objects, sharp elements, protrusions on the surface of the playground.

Under playground equipment with a free-fall height of more than 600 mm, an impact-absorbing coating must be provided over the entire fall zone. With a free fall height of less than 1000 mm, a turf shock-absorbing coating is allowed.

Examples of impact-absorbing coatings

Material ¹	Description	Minimal depth, mm	Fall height, mm
Turf			≤1000
Tree bark	grain size 20-80 mm	200	≤2000
iree bark	grain size 20-60 mm	300	≤3000
Sawdust	grain size 5-30 mm	200	≤2000
Sawuust	grain size 5-30 mm	300	≤3000
Sand ²	grain size 0.2.2 mm	200	≤2000
Saliu-	grain size 0,2-2 mm	300	≤3000
Gravel ²	grain size 2.9 mm	200	≤2000
Giavei	grain size 2-8 mm	300	≤3000
		<u> </u>	Critical fall height
Other materials ³	Characteristics of th	e tested material	obtained during
			testing

- 1. Materials specially prepared for playgrounds.
- 2. There should not be any clay inclusions.
- 3. The grain size is obtained by sieving through a sieve as in EN933-1.

WARNING! Operating the product without an impact-absorbing coating may result to serious injury during falling down.

Playground surface materials with low impact-absorbing features should only be used outside the fall zone. **Product use:**

- it is recommended to show or tell children how to use the equipment;
- during use it is recommended to hold onto handrails, railings, handles;
- it is forbidden to use until the completion of its full and final installation;
- it is forbidden to use by users of a different age and weight category;
- before using clear the surface from foreign objects, sharp elements, protrusions;
- it is forbidden to move the product elements which are not intended for this;
- do not use in difficult weather conditions (ice, snow, rain, hail, strong wind, etc.), in which there is a possibility of injury to the child.

The manufacturer is not responsible for the consequences:

- poor quality and improper installation of the product;
- use of low-quality materials and inadequate qualifications of personnel during installation of the product;
- use of the product earlier than the period necessary to fix the product in the soil or other material;
- design changes to the product that caused injury;

- lack of proper adult control;
- violation of age and weight restrictions by users;
- damage to the product due to improper storage, installation or use of the product for purposes other than those intended.

10. INSTALLATION INSTRUCTIONS

Installation of the product can be carried out by the manufacturer, service centre or other legal entities and individuals who have the necessary material and technical base and qualifications.

The product is installed on a prepared flat area, free from debris, trees and other obstacles that interfere with installation (when installed in winter, the area shall be additionally free from snow). The required size of the site is determined by the fall zone of the equipment. When installing in winter on natural ground, it is recommended to choose a site with compacted soil in the area of foundation placement.

The height difference of the prepared site should be:

- a) no more than 50 mm for natural substrates, including substrates with subsequent shock-absorbing coating.
- b) no more than 10 mm for hard substrates (asphalt, concrete), including substrates with subsequent application of a synthetic protective coating.

Before starting the installation, you must:

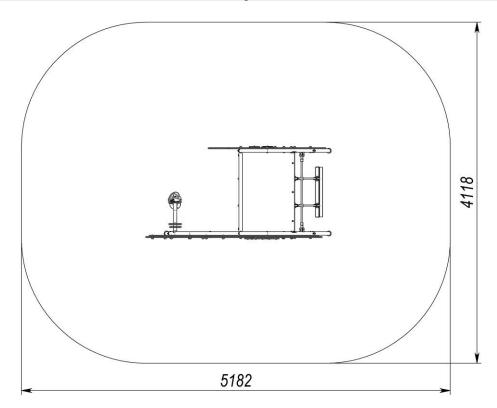
- study the documentation supplied with the product;
- check the completeness in accordance with the documents supplied with the product;
- remove the original packaging from the component part;
- comply with safety requirements.

To avoid cracking of the wood, for screws with a diameter of more than 4 mm, drill holes with a diameter of 0.6...0.7 mm to a depth of 0.8 of the screw's length.

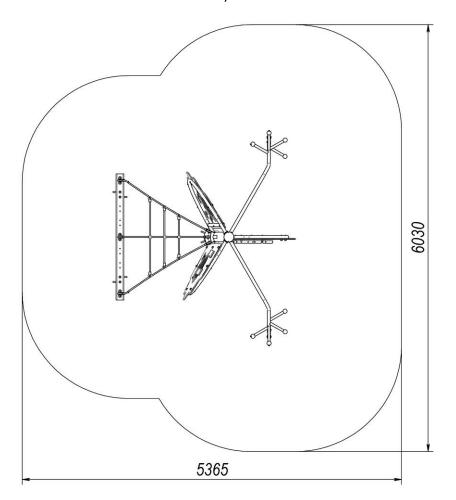
WARNING! The presence and participation of children during the installation of the product is not allowed.

Install the product in stages, following the instructions in the appendix.

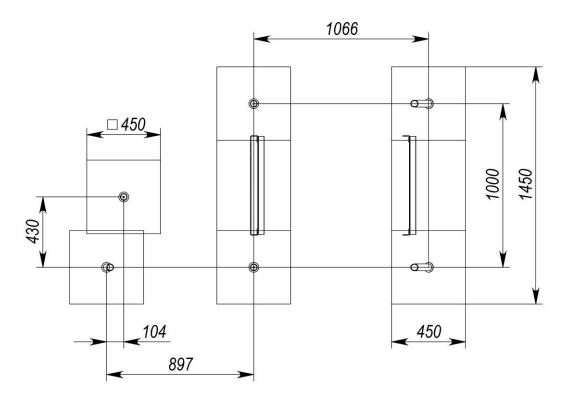
Assembly schemes



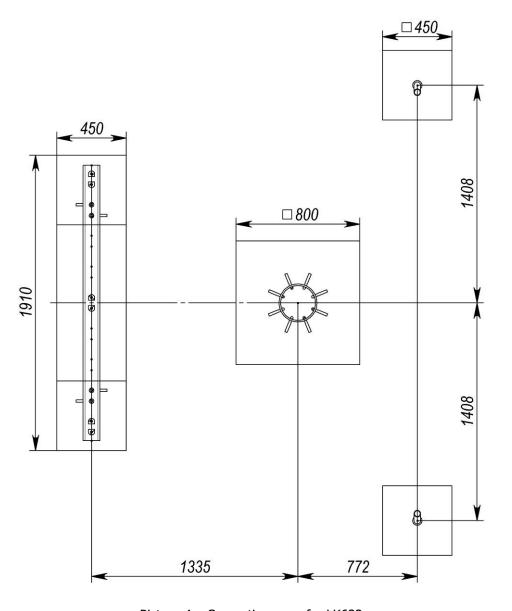
Picture1 – Safety zone for LK621



Picture 2 – Safety zone for LK622



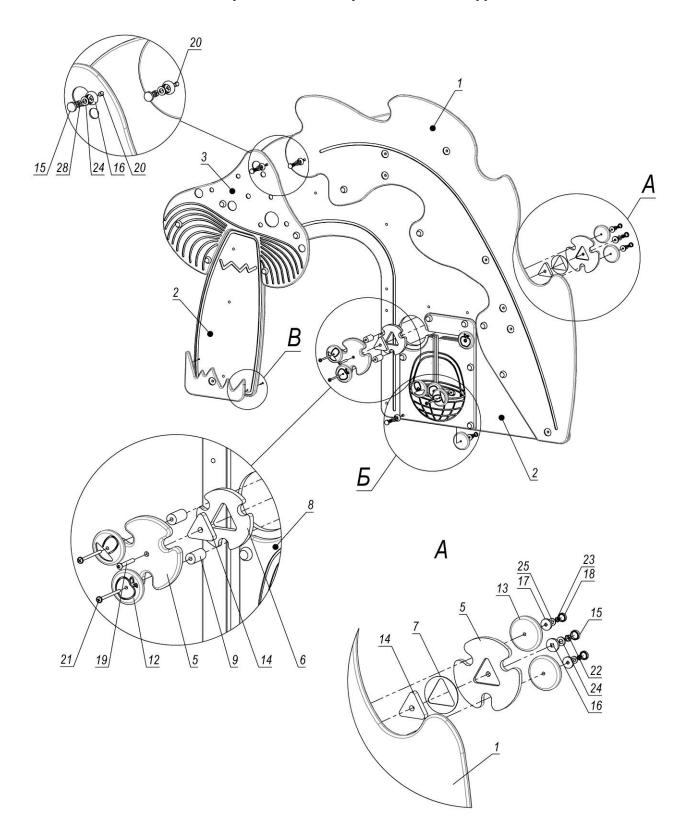
Picture 3 – Concreting zone for LK621



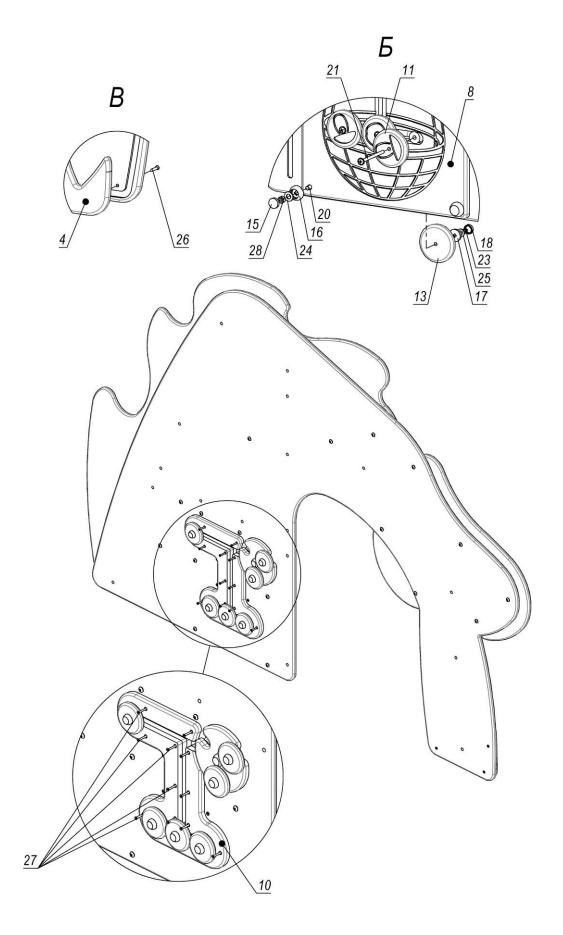
Picture 4 – Concreting zone for LK622

Assembly schemes

Additionally see the assembly schemes in the Appendix.



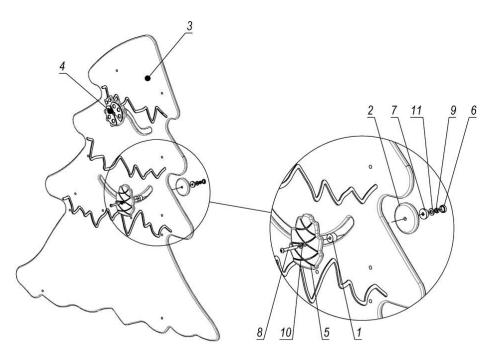
Picture 5 – Panel assembly scheme 1



Picture 6 – Panel assembly scheme 2

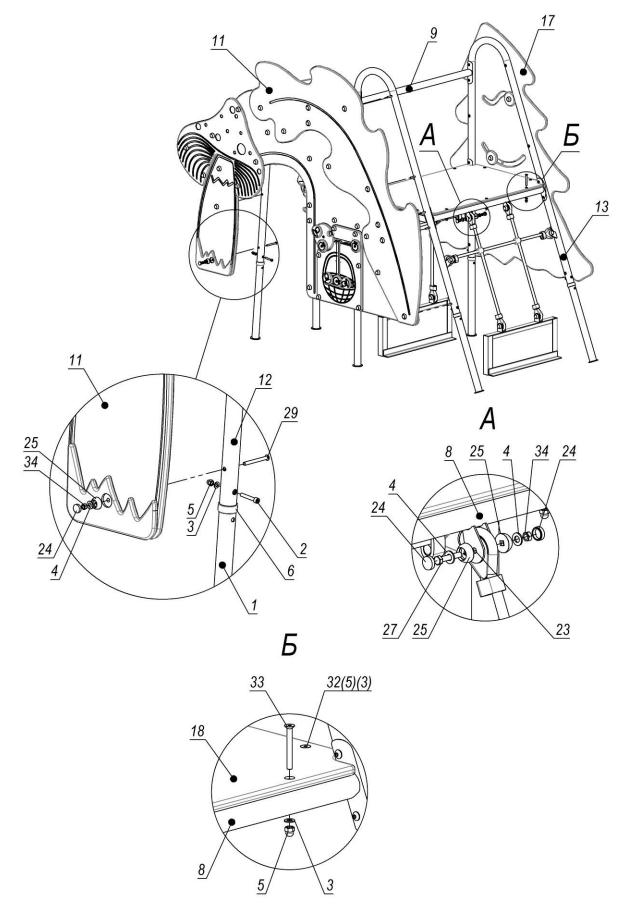
Table 1 – Complete set of panels 1,2

Pos.	Name	Weight, kg	Q-ty
1	Cover plate sheet	12	1
2	Panel Base	23	1
3	Сар	3	1
4	Cover plate grass	4	1
5	Wheel	2	2
6	Medium circle		1
7	Washer		1
8	Cover plate basket		1
9	Bung		6
10	Rear cover plate		1
11	Slider mushroom		3
12	Slider apple		3
13	Slider		6
14	Triangle		2
15	Cap M8		18
16	Cup M8		18
17	Cup M6		6
18	Cap M6		6
19	Stud M8x60 ISO7380		1
20	Stud M8x40 ISO7380		17
21	Stud M6x90 DIN967		6
22	Nut M8 DIN985		1
23	Nut M6 DIN985		6
24	Washer 10 GOST11371		18
25	Washer 8 GOST11371		6
26	Screw 4x25 GOST1145		7
27	Screw 4x45 GOST1145		13
28	Nut M8 GOST5915		17

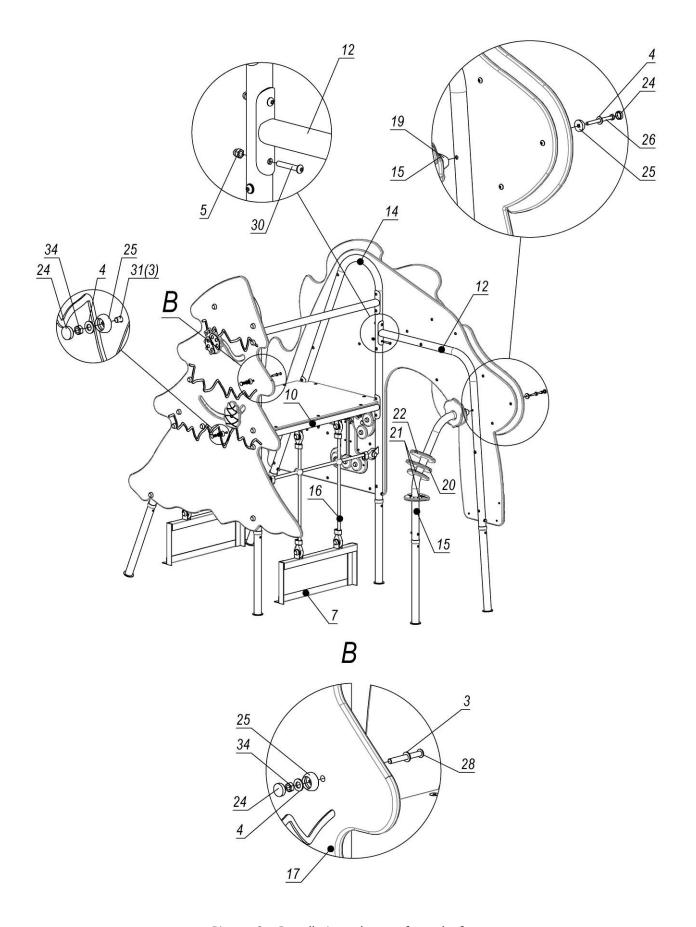


Pos.	Name	Weight, kg	Q-ty
1	Bung		2
2	Slider		2
3	Fir tree	16	1
4	Slider beetle		1
5	Slider bump		1
6	Cap M8		2
7	Cup M8		2
8	Stud M8x60 ISO7380		2
9	Nut M8 DIN985		2
10	Washer 8 GOST11371		2
11	Washer 10 GOST11371		2

Picture 7 – Assembly scheme of «Fir tree»



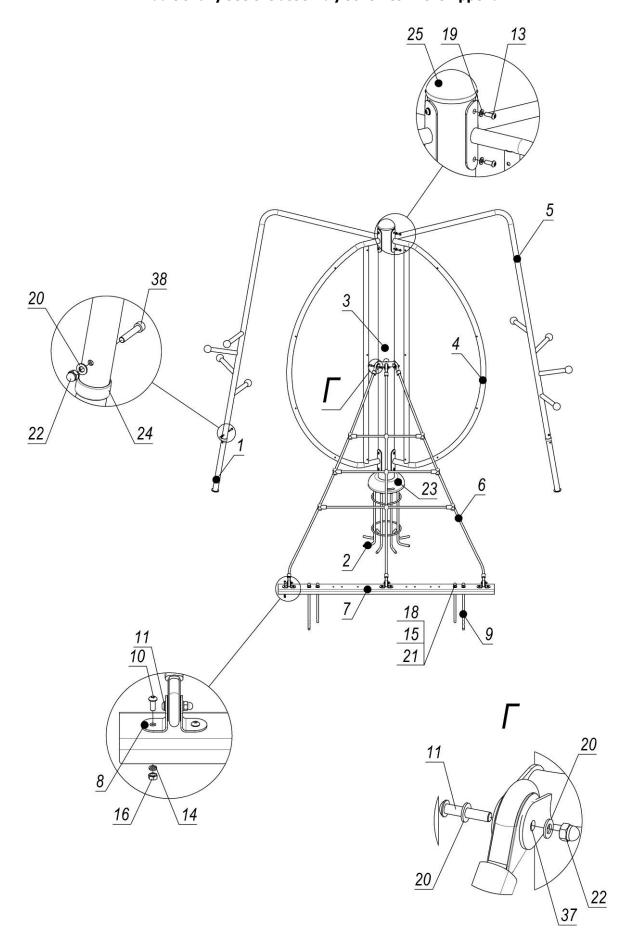
Picture 8 – Installation scheme of panel, ladder, frame



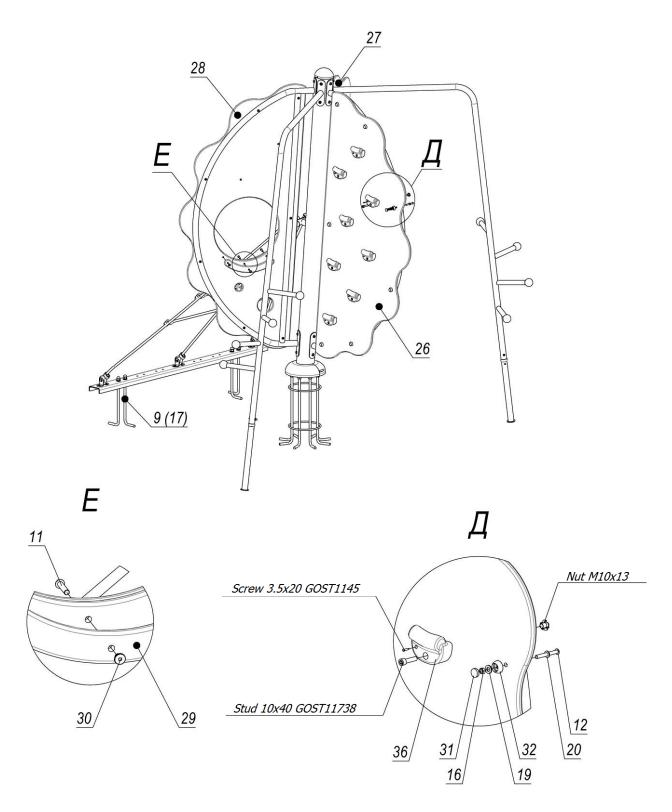
Picture 9 – Installation scheme of panels, frame

1 Handrail embedded element 2 6 2 Stud M8*50 GOST11738 6 3 Washer 8 GOST11371 29 4 Washer 10 GOST11371 54 5 Cap nut M8 DIN1587 18 6 Connecting bung D42 6 7 Ropes embedded element (angle) 4 2 8 Crossbar 3 1 9 Crossbar 3 1 10 Crossbar 3 1 11 Wall bar assembly 46 1 12 Support 5 1 13 Left frame 10 1 14 Right frame 10 1 15 Support 2 1 16 Ladder 2 2 17 Fir tree assembly 16 1 18 Site 7 1 19 Bump 2 2 20 Bump 2 2 21 Leaf 2 2 22	Pos.	Name	Weight, kg	Q-ty
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25 Cup M8 54 26 Bolt M8*90 GOST 7798 1 27 Bolt M8*45 GOST 7798 12 28 Stud M8x70 ISO7380 17 29 Stud M8x80 ISO7380 8 30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6		-		
26 Bolt M8*90 GOST 7798 1 27 Bolt M8*45 GOST 7798 12 28 Stud M8x70 ISO7380 17 29 Stud M8x80 ISO7380 8 30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6		Cap M8		
27 Bolt M8*45 GOST 7798 12 28 Stud M8x70 ISO7380 17 29 Stud M8x80 ISO7380 8 30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6				
28 Stud M8x70 ISO7380 17 29 Stud M8x80 ISO7380 8 30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6				
29 Stud M8x80 ISO7380 8 30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6	27	Bolt M8*45 GOST 7798		12
30 Stud M8x50 ISO7380 2 31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6	28	Stud M8x70 ISO7380		17
31 Stud M8x30 ISO7380 4 32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6	29	Stud M8x80 ISO7380		
32 Stud M8x30 DIN7991 4 33 Stud M8x70 DIN7991 6	30	Stud M8x50 ISO7380		_
33 Stud M8x70 DIN7991 6	31	Stud M8x30 ISO7380		4
				-
34 Nut M8 GOST5915 41	33	Stud M8x70 DIN7991		6
	34	Nut M8 GOST5915		41

Assembly schemes LK622 Additionally see the assembly schemes in the Appendix.



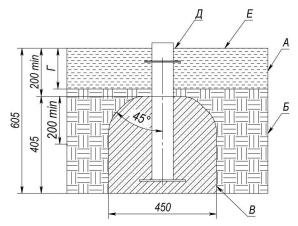
Picture 10 – Frame assembly scheme



Picture 10 – Installation scheme of the panels

Table 3 – Complete set LK622

Pos.	Name	Weight, kg	Q-ty
1	Handrail embedded element	2	2
2	Foundation (8 anchors assembly)	12	1
3	Inclined column	33	1
4	Panel frame	14	3
5	Ladder	14	2
6	Rope net	7	1
7	Channel		1
8	Angle		6
9	Anchor		4
10	Stud M8x20 ISO7380		6
11	Stud M8x40 ISO7380		12
12	Stud M8x70 ISO7380		21
13	Stud M10x25 ISO7380		16
14	Washer 8 GOST6402		6
15	Washer 16 GOST6402		4
16	Nut M8 GOST5915		27
17	Nut M16 GOST5915		4
18	Washer 16 GOST11371		8
19	Washer 10 GOST11371		37
20	Washer 8 GOST11371		35
21	Cap nut M16 DIN1587		4
22	Cap nut M8 DIN1587		8
23	Cap SL-SE assembly		1
24	Connecting bung D42		2
25	Plug D133 mm		1
26	Panel		1
27	Panel		1
28	Panel		1
29	Hole cover plate		4
30	ERICSON nut M8x11.5x17x10 S		6
31	Cap M8		21
32	Cup M8		21
33	Rivet-nut M10 (countersunk)		16
34	Rivet 4.8x16 DIN7337		2
35	Stones for climbing - blue (complete set 5 pcs.)		1
36	Stones for climbing - yellow (complete set 5 pcs.)		1
<i>37</i>	Tube d12x1.5 GOST 10704, L=22 mm		6
38	Stud M8*45 GOST11738		2



For beam supports and other elements

A - shock-absorbing coating;

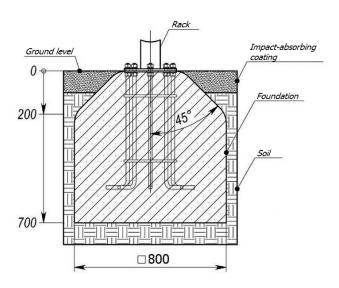
Б – soil;

B – concrete;

 Γ - depth of the shock absorbing coating;

Д - product level plane;

E – game surface.

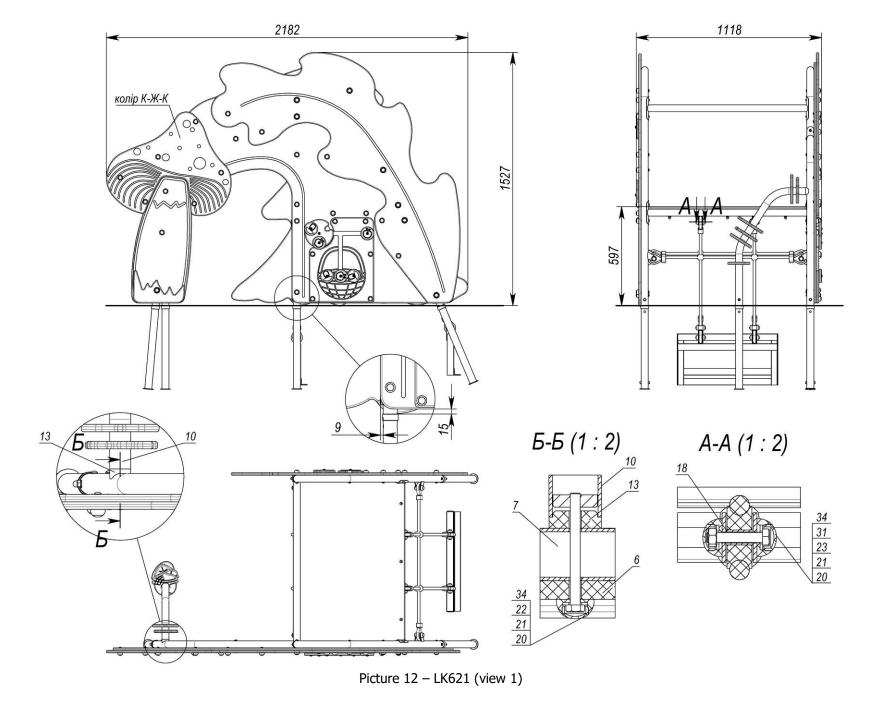


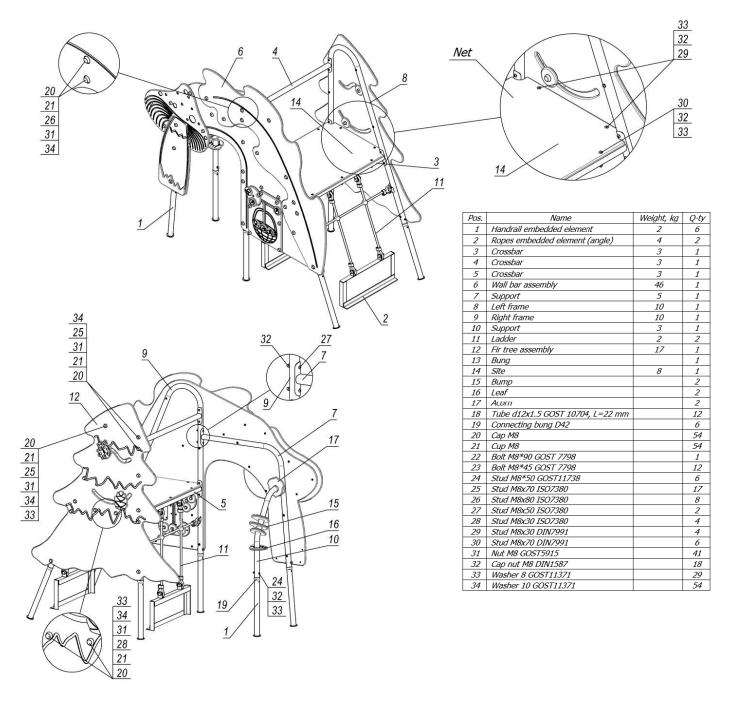
For rack
Examples of impact-absorbing coatings

Material ¹	Description	Minimal	Fall height,		
		depth, mm	mm		
Turf			≤ 1000		
Tree bark	grain size 20-80 mm	200	≤ 2000		
		300	≤ 3000		
Sawdust	grain size 5-30 mm	200	≤ 2000		
		300	≤ 3000		
Sand ²	grain size 0.2-2 mm	200	≤ 2000		
		300	≤ 3000		
Gravel ²	grain size 2-8 mm	200	≤ 2000		
		300	≤ 3000		
Another	HIC tested according to	According to	According to		
material	EN 1177	the test	the test		
4. Matariala ana anasialla manda Cantha mlaramanada					

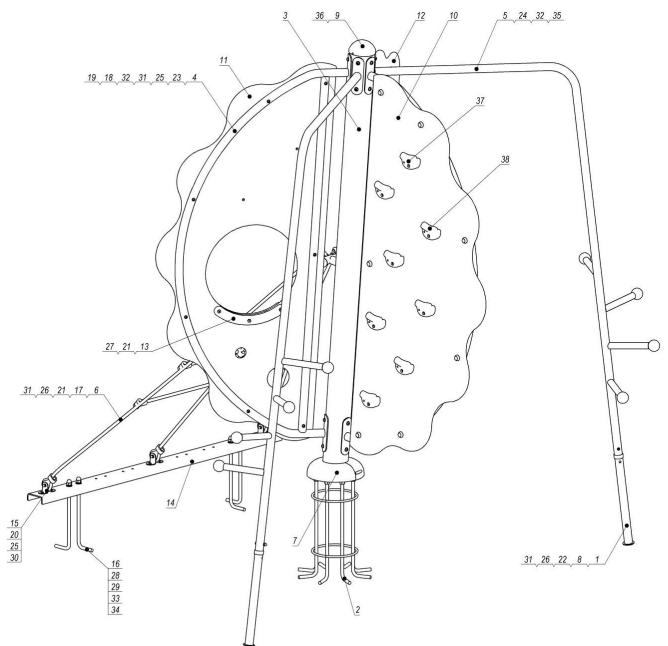
- 1. Materials are specially made for the playgrounds.
- 2. No clay inclusions should be present. Grain size is obtained by sieving through a sieve as in EN 933-1.

Picture 11 - Concreting scheme





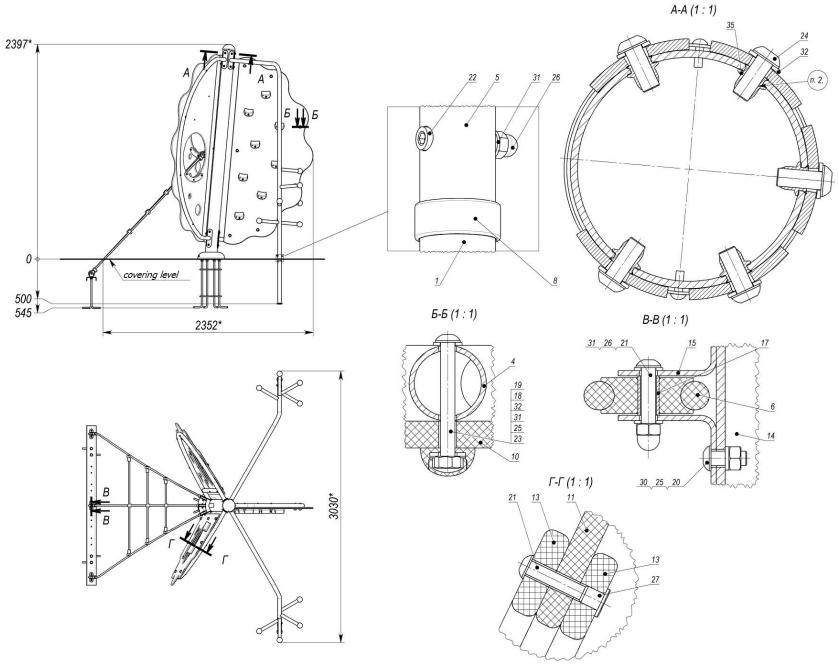
Picture 13 – LK621 (view 2)



- Place the stones by colour in a mixture
 Apply a medium-strength thread locker to all such joints.
 Pos. 9, 35 and 36 should be installed at the production site.

Pos.	Name	Weight, kg	Q-ty
1	Handrail embedded element	2	2
2	Foundation (8 anchors assembly)	12	1
3	Inclined column	33	1
4	Panel frame	14	3
5	Ladder	15	2
6	Rope net	8	1
7	Cap SL-SE assembly		1
8	Connecting bung D42		2
9	Plug D133 mm		1
10	Panel	20	1
11	Panel	17	1
12	Panel	16	1
13	Hole cover plate		4
14	Channel	12	1
15	Angle		6
16	Anchor		4
17	Tube d12x1.5 GOST 10704, L=22 mm		6
18	Cap M8		21
19	Cup M8		21
20	Stud M8x20 ISO7380		6
21	Stud M8x40 ISO7380		12
22	Stud M8*45 GOST11738		2
23	Stud M8x70 ISO7380		21
24	Stud M10x25 ISO7380		16
25	Nut M8 GOST5915		27
26	Cap nut M8 DIN1587		8
27	ERICSON nut M8x11.5x17x10 S		6
28	Nut M16 GOST5915		4
29	Cap nut M16 DIN1587		4
30	Washer 8 GOST6402		6
31	Washer 8 GOST11371		35
32	Washer 10 GOST11371		37
33	Washer 16 GOST6402		4
34	Washer 16 GOST11371		8
35	Rivet-nut M10 (countersunk)		16
36	Rivet 4.8x16 DIN7337		2
37	Stones for climbing - blue (complete set 5 pcs.)		1
38	Stones for climbing - yellow (complete set 5 pcs.)		1

Picture 14 – LK622 (view 1)



Picture 15 – LK622 (view 2)