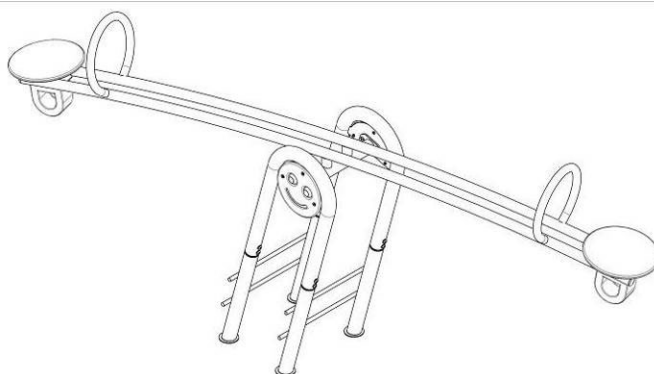
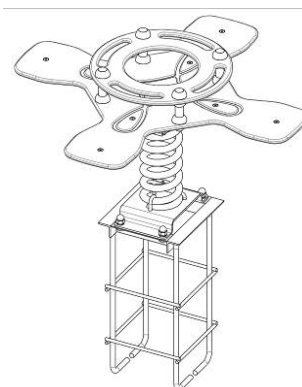
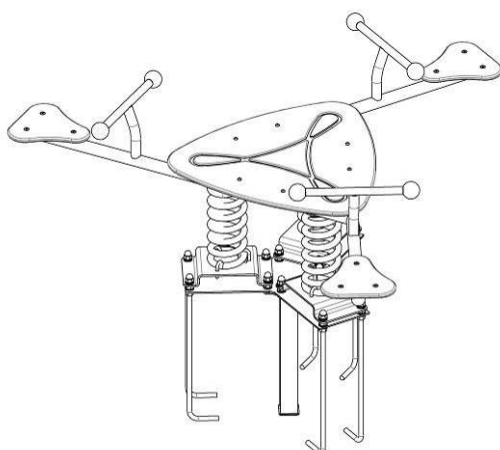


DATA SHEET

Swing "Triangle" LK420
4-seater Swing LK421
Seesaw LK430



CONTENT

1. GENERAL INFORMATION	3
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FOR NOTES

[illegible]

1. GENERAL INFORMATION

Purpose and content of this document. This document contains a general description of the equipment, information on installation, intended use, maintenance, current repair and manufacturer's warranty.

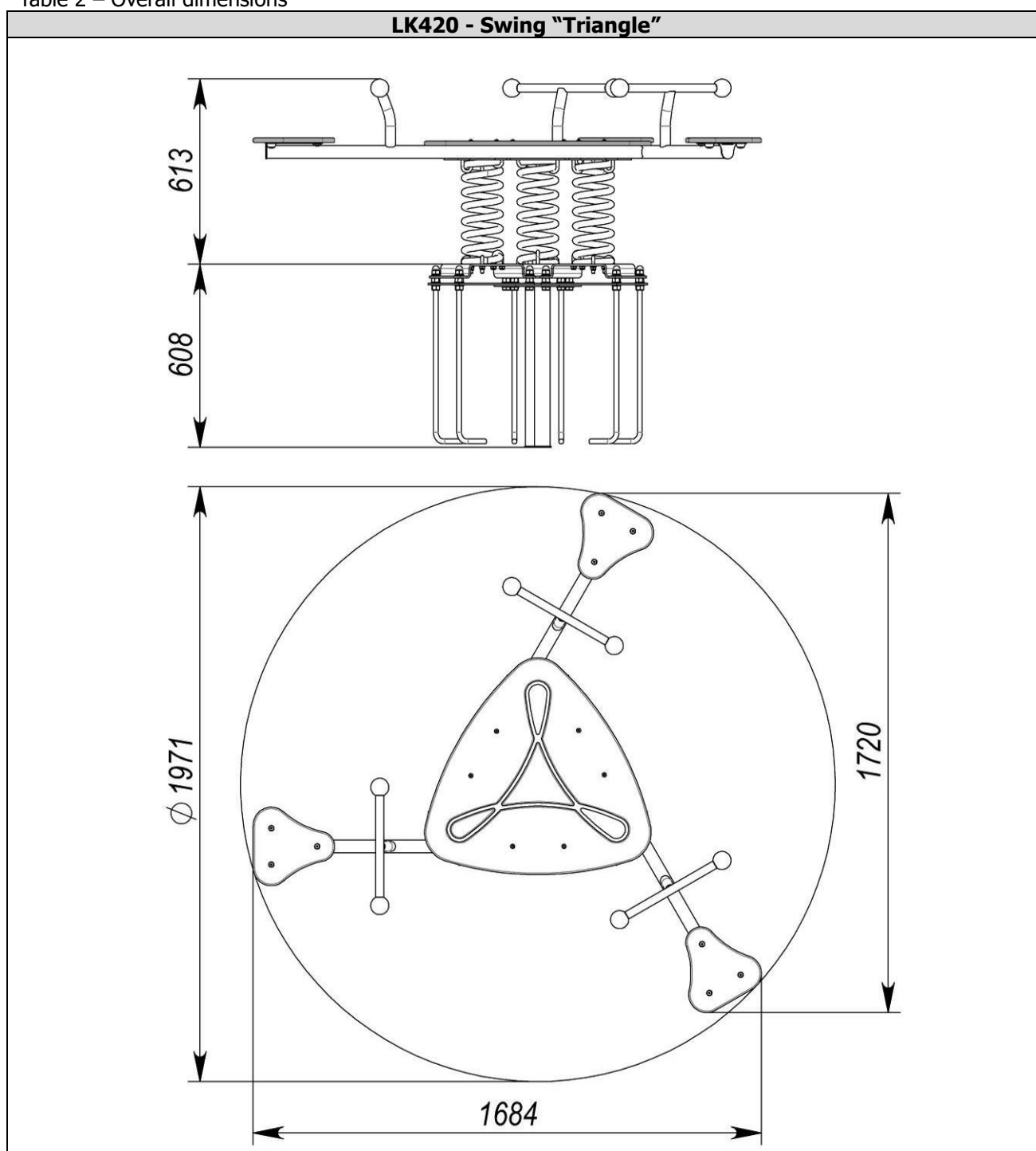
Distribution of this document for product modifications. The manufacturer can make changes to the design of the product, aimed at improving its characteristics, changing the design, etc. This document may not contain a description of such changes, but applies to such modified products.

2. MAIN TECHNICAL DATA AND CHARACTERISTICS

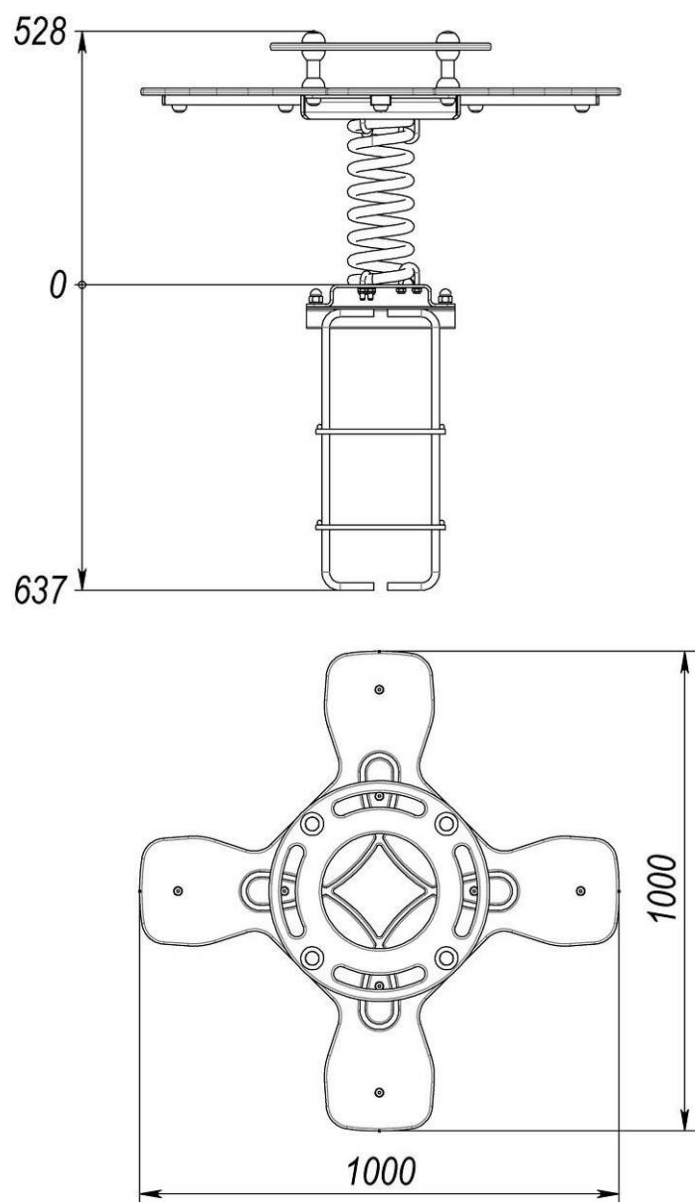
Table 1 – Technical data

	LK420	LK421	LK430
Length, mm	1684	1000	2962
Width, mm	1720	1000	1029
Free height of fall, mm	418	410	627
Height, mm	613	528	846
Weight, kg	90	40	68

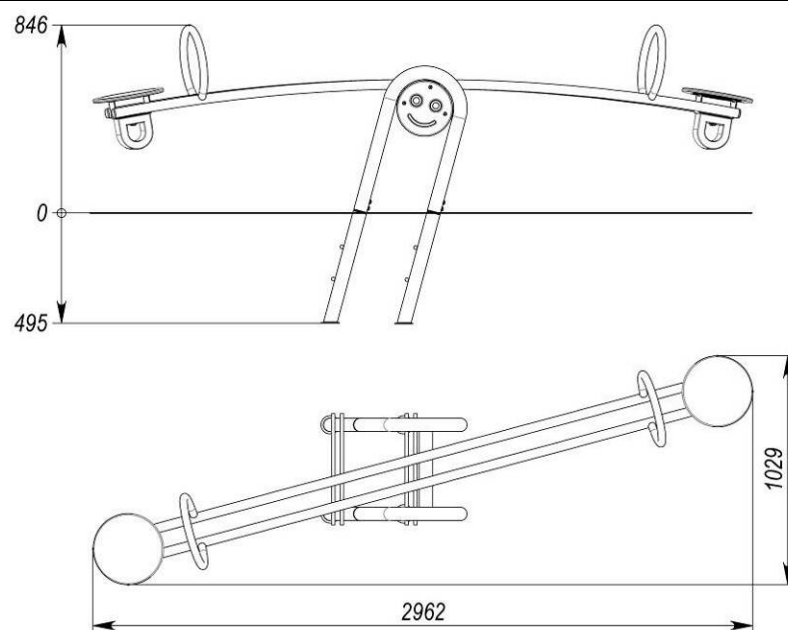
Table 2 – Overall dimensions



LK421 - 4-seater Swing



LK430 - Seesaw



3. COMPLETENESS AND CHARACTERISTICS OF THE MAIN PARTS OF THE PRODUCT

Table 3 - for LK420

Nº	Name	Q-ty	Weight, kg
1	Swing	1	69
2	Embedded element	1	21
4	Washer 16 GOST6402	12	
5	Washer 16GOST	12	
6	Cap nut M16 DIN1587	12	

Table 4 – for LK421

Nº	Name	Q-ty	Weight, kg
1	Swing	1	22
2	Embedded element	1	10
3	Cap nut M16 DIN1587	4	
4	Spring washer 16 GOST6402*	4	

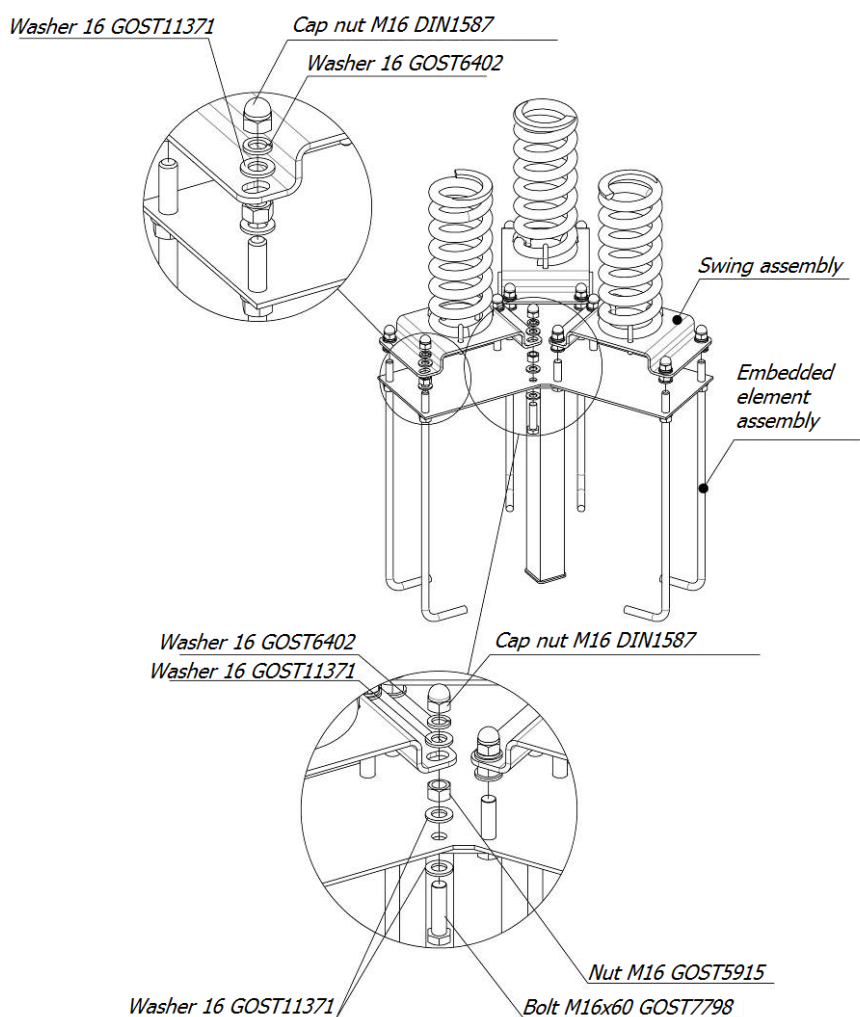
See the “Appendix” for the LK430 complete set.

4. PRODUCT ASSEMBLY AND INSTALLATION PROCEDURE

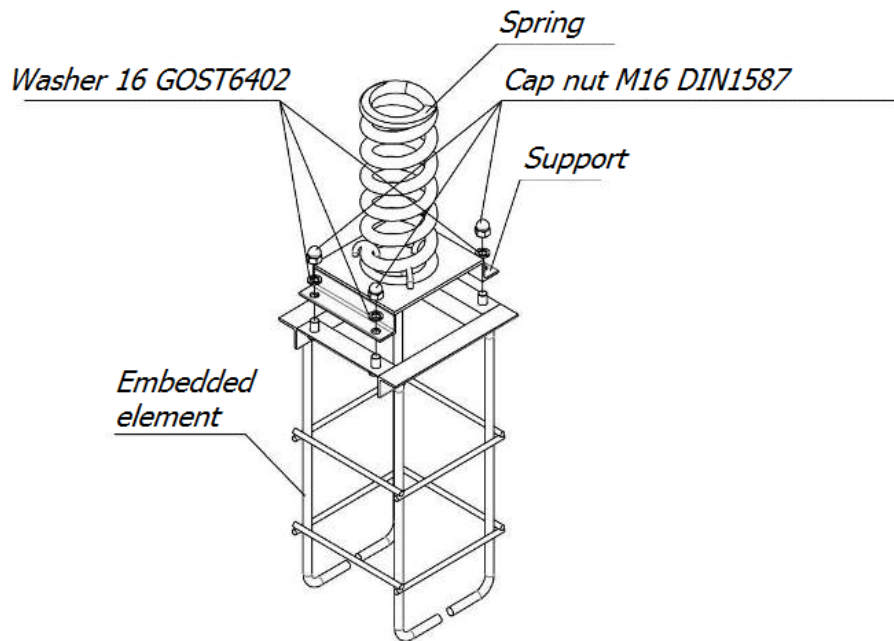
Tools and accessories. The product does not include the tools required for assembly and installation.

Product assembly and installation procedure.

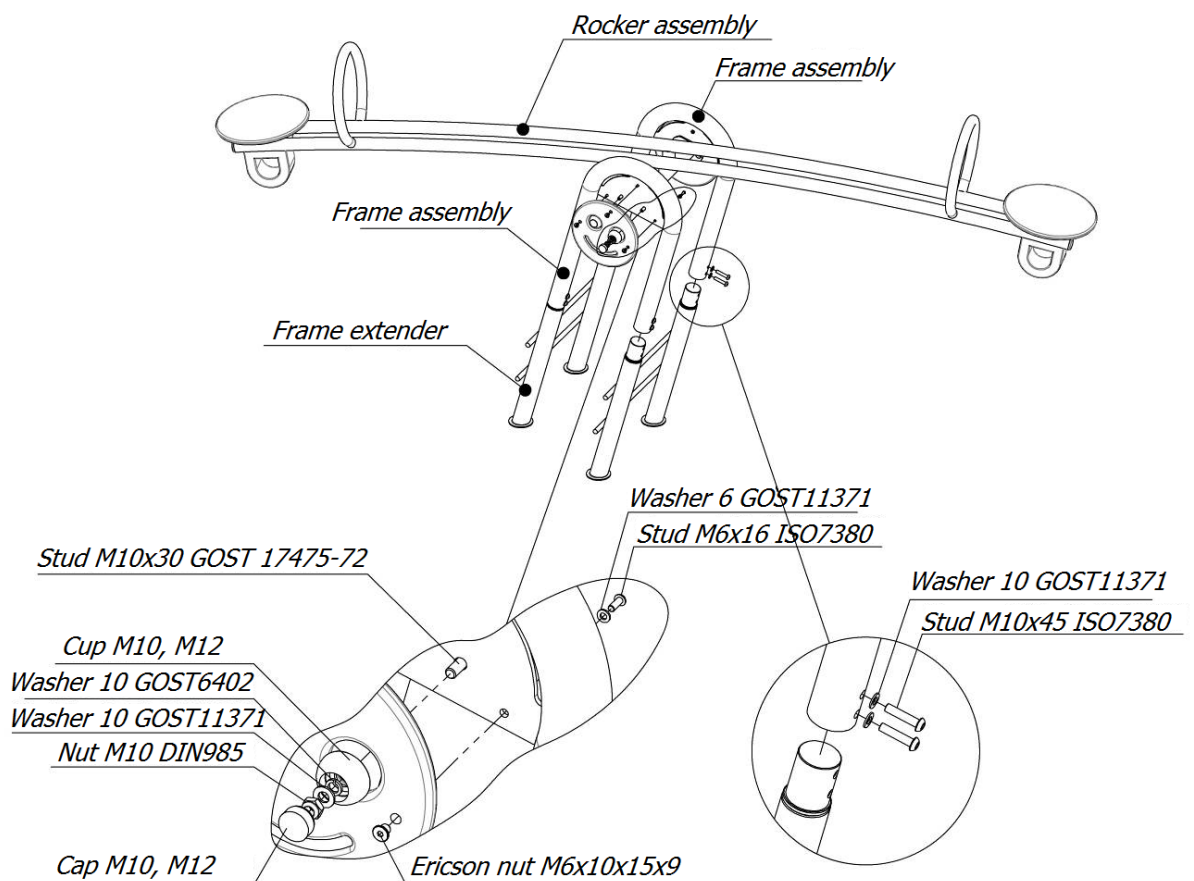
- 1) Concrete the embedded part according to the concreting schemes.
- 2) Install and fasten the product according to pictures 1, 2, 3, 4 and the complete set given in table 3, 4. Playing surface level 'E' coincides with the plane 'D' of the embedded element. During installation of the product on sandy soil, the overall dimensions of the foundation should be increased by 15-20%.



Picture 1 - For LK420

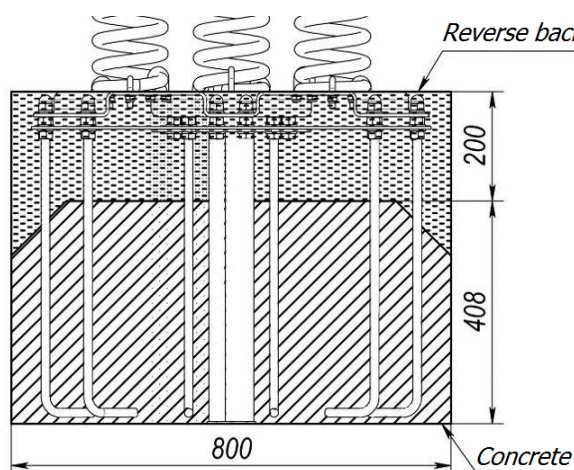


Picture 2 - For LK421

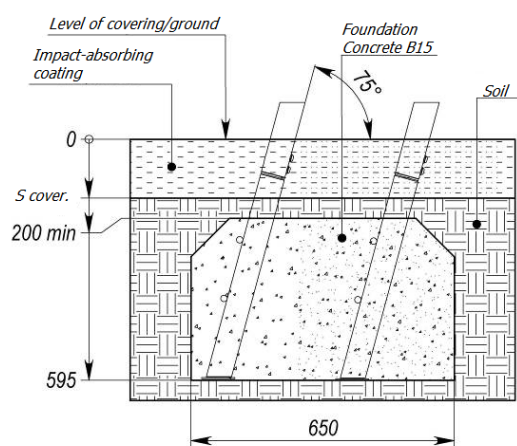


Picture 3 - For LK430

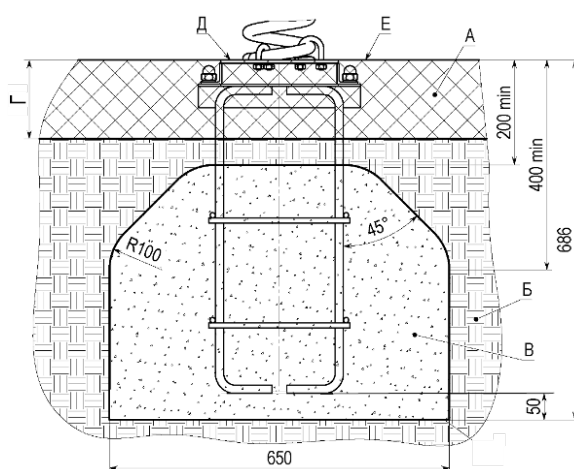
Concreting schemes



For LK420



For LK430



A - shock-absorbing coating;
 B – soil;
 B – concrete;
 Γ - depth of the shock absorbing coating;
 Δ - product level plane;
 E – game surface.

For LK421

Examples of impact-absorbing coatings

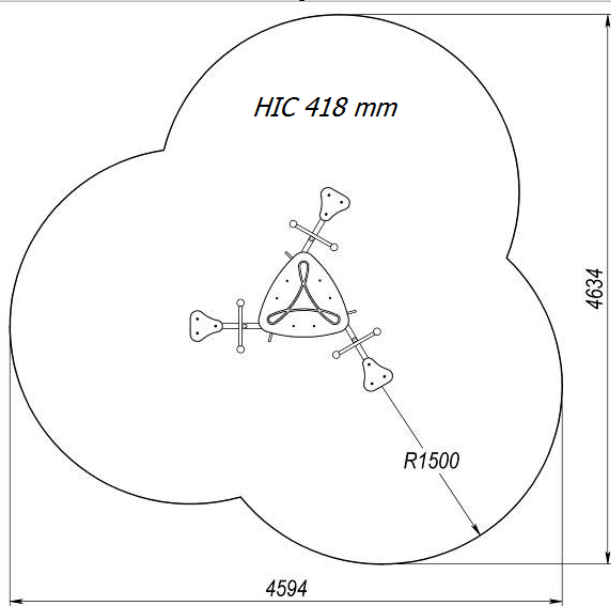
Material ¹	Description	Minimal depth, mm	Free height of fall, mm
Turf			≤1000
Tree bark	grain size 20-80 mm	200	≤2000
		300	≤3000
Sawdust	grain size 5-30 mm	200	≤2000
		300	≤3000
Sand ²	grain size 0,2-2 mm	200	≤2000
		300	≤3000
Gravel ²	grain size 2-8 mm	200	≤2000
		300	≤3000
Other materials ³	Characteristics of the tested material		Critical height of fall, 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.

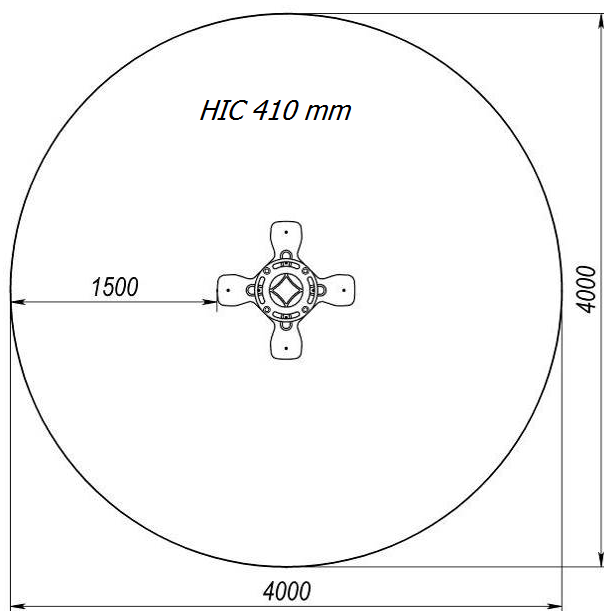
Picture 4

5. INSTALLATION SCHEME OF THE PRODUCT

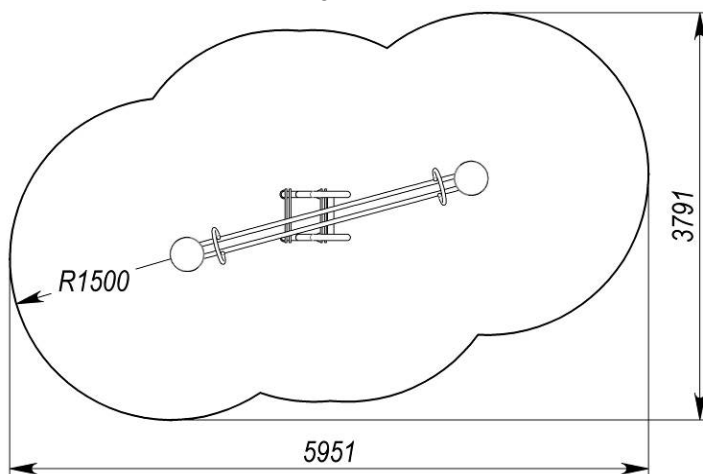
Safety zone



For LK420



For LK421



For LK430

Picture 5

6. INFORMATION ON STORAGE, TRANSPORTATION AND DISPOSAL

The product is transported in the manufacturer's packaging by any means of transport that ensures its safety and protection from external factors (rain, snow, sunlight, water, high humidity, etc.).

Information about transportation

Date		Brand, state number of the ca/trailer	Position, full name	Signature
Departure	Arrival			

Before installation, store the product in the original packaging in dry, closed rooms with natural air ventilation.

If it is necessary to transport the product to another location after use, it is recommended to use the manufacturer's packaging.

If long-term storage of the product is required, the following storage rules must be observed (the list of conditions is not complete):

- place the product in a closed dry room with natural ventilation;
 - protect the product from external factors (dust, water drops, etc.) with a large plastic bag, leaving space for free air circulation;
 - 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);
 - remove dust and other contaminants from the surface of the product;
 - check completeness and absence of parts damages.

Storage information

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

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.

7. PRODUCT USE

Do not use the product until it has been fully and completely installed.

The product must not be used by users of a different age category.

The product must not be used by users of a different weight category.

Before using the product, clear the safety area of any unnecessary objects that may cause damage to the user (debris, tools left over from assembly and installation, etc.).

Do not use the product in adverse weather conditions (ice, snow, rain, hail, strong winds, etc.), which may cause injury to the user.

8. PRODUCT MAINTENANCE

You have purchased high-quality and reliable equipment. In the process of its production, the requirements of regulatory and technical documents of Ukraine, the CIS countries and the European Union regulating the production of children's gaming equipment were taken into account. However, it should not be forgotten that when operating any technical product, certain rules and requirements must be followed. Despite the fact that our product is of high quality and reliability, this rule applies to it in full. You should be aware that the implementation of the following rules and recommendations for product maintenance is aimed at ensuring that your child, the child of your friends or acquaintances is safe and no unforeseen factors threaten his health, life.

Remember that the operation of the product is accompanied by the influence of various negative factors on it, a complete list of which cannot be predicted. Among them, an important place is occupied by natural factors and factors caused by human influence on equipment. As a rule, their action initially leads to disruptions in the appearance of the product. Thus, under the influence of factors caused by the exploitation of a person, there may be damage to the integrity of the paint coating of parts made of wood, in the form of scuffs, chips, incisions, and when exposed to parts made of metal, damage to the paint coating in the form of nicks, chips, abrasion, etc. This leads to the emergence and development of defects that can be the cause of the destruction of the product. The product is particularly dangerous if it is used for other than its intended purpose, if the permissible loads are exceeded, or if vandalism occurs, as these factors can cause irreversible changes in the structure of the material from which the product is made, leading to destruction.

The maintenance of the product implies, first of all, the responsibility of the user to comply with all recommendations provided in this document, starting with a daily inspection of the external condition of the product before operation.

Daily inspection of the product is a very important procedure. With its help, you can timely detect any changes in the appearance of the product (deformation of individual parts, deformation of the structure as a whole or part of it, damage to parts, cracks of welds, as well as the absence of fastening of parts of the product, etc.).

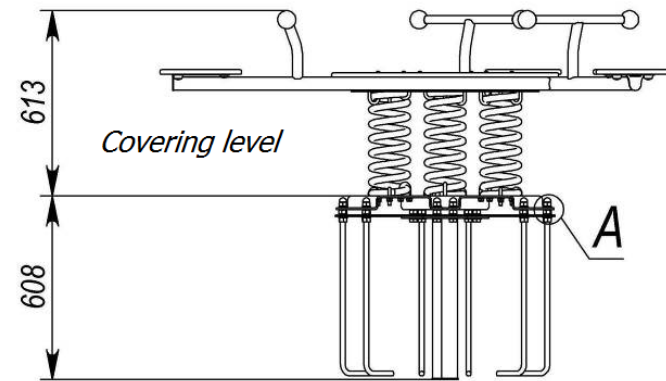
Before using the product, check its operability, absence of damage, dirt on the product, sharp edges, reliability of fixing the structure, absence of unnecessary objects on the surface of the site. If the product is damaged, fully or partially inoperable, or has any other defects, do not use it.

During operation it is also necessary to inspect the condition of the product periodically - the current inspection. It includes an external inspection of the product, checking its operability (in the presence of moving elements - the smoothness of the movement of mechanisms, compliance with operating modes, etc.). Current inspection allows you to detect malfunctions caused by the operation of equipment, climatic conditions, acts of vandalism and other factors, until they reach a critical level and the destruction of the product. The current inspection is carried out in order to detect foreign objects that may threaten the user and lead to violations of the functioning of the product. The frequency of the current inspection is set by the owner taking into account the operating conditions. If you do not have sufficient technical knowledge and skills to conduct such inspections, we recommend you to contact the authorized specialists of the manufacturer in order to obtain advice.

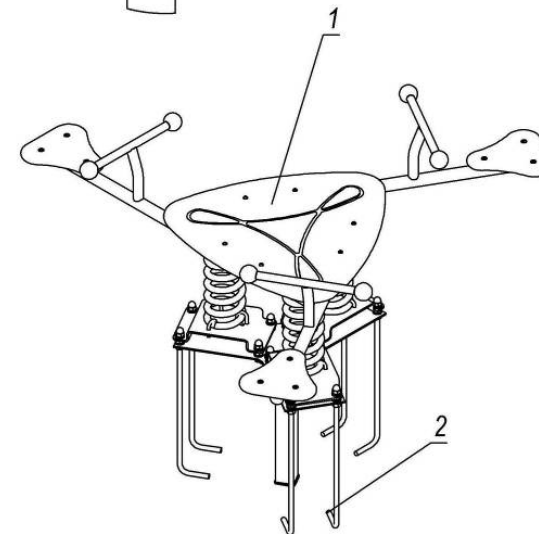
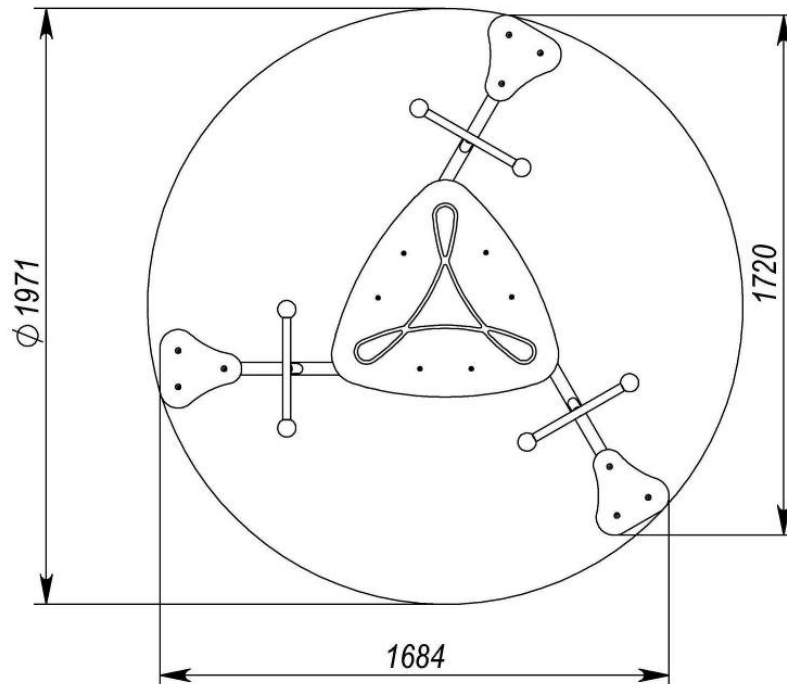
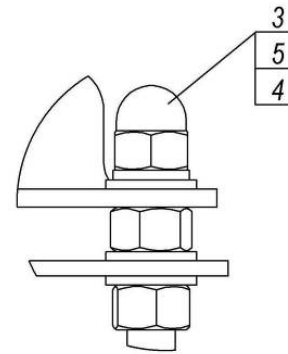
Every three months, a scheduled inspection should be carried out, which primarily concerns the foundation part, load-bearing elements and connection nodes of elements (their integrity and degree of deterioration).

The main annual inspection must be carried out annually by authorised specialists of the manufacturer. During the inspection, the technical condition of the equipment shall be assessed for compliance with safety requirements. The degree of deterioration and damage to wooden elements and their ability to withstand the applied loads, damage, corrosion of metal elements and the impact of these factors on the safety of the product are determined. The inspection also helps to identify the impact of repairs, if any, on the safety of the equipment.

Based on the results of the inspection, a maintenance procedure is carried out to eliminate the identified discrepancies in the product's operation. This procedure includes assessing the condition of parts and assemblies, replacing worn parts, and restoring the integrity of protective coatings. The results of the inspections, as well as the procedures carried out as a result of the inspection and maintenance of the product must be properly documented in the Registration Journal, which is an integral part of this passport. The owner of the product must keep the acts of maintenance of the product, acts of repair work done.

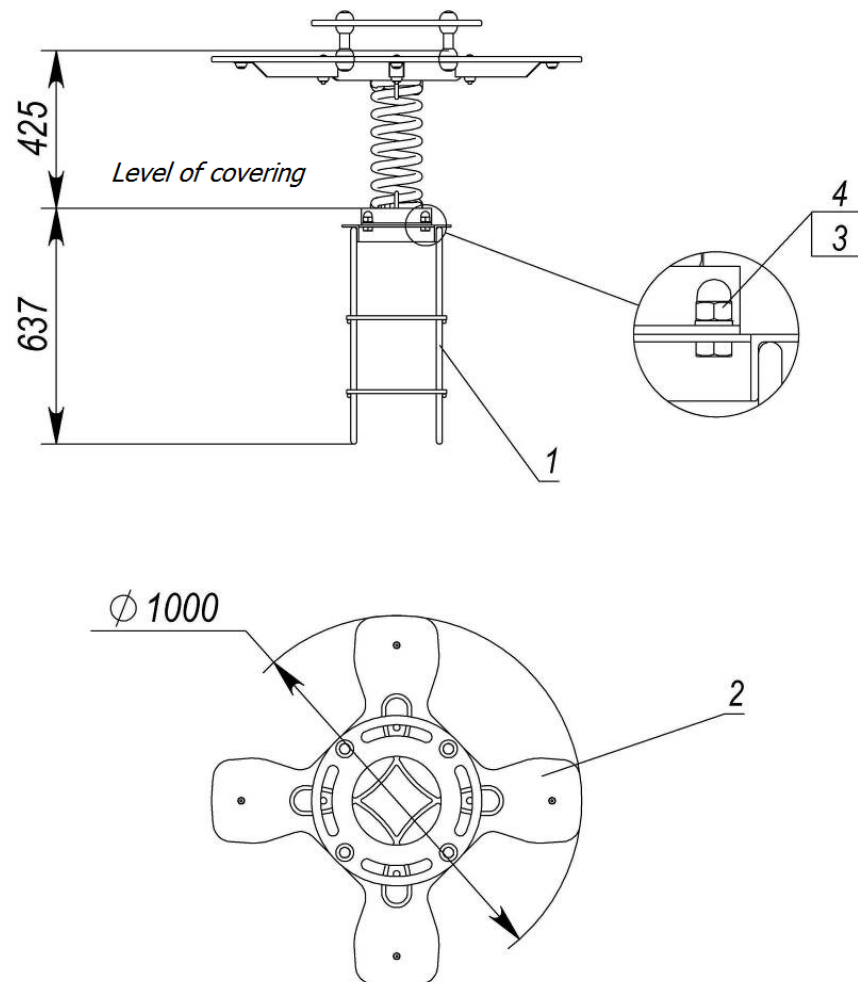


A (1 : 2)



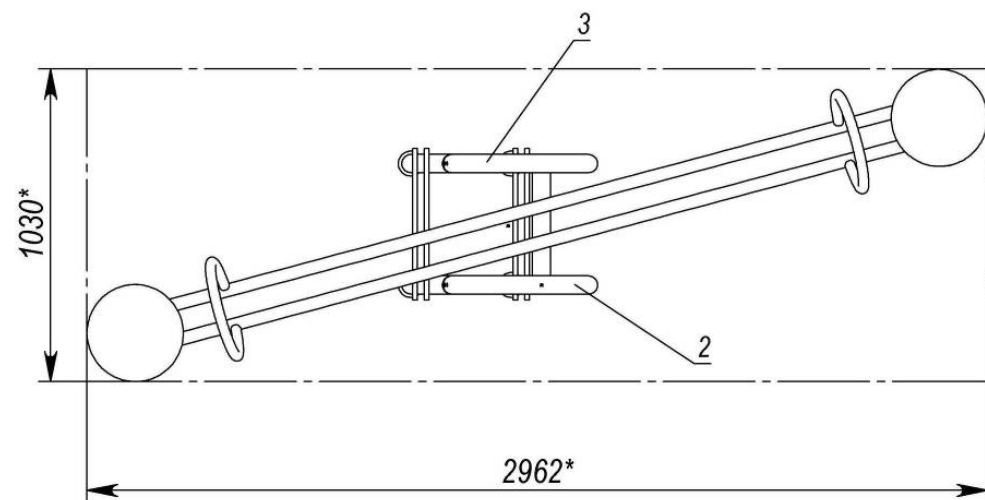
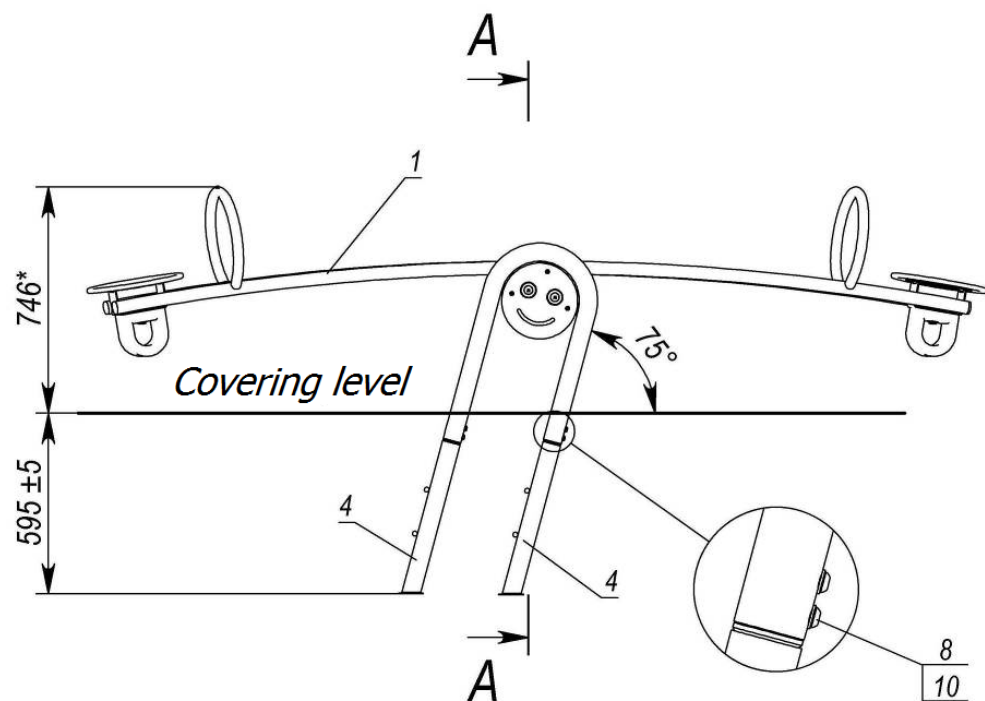
Pos.	Name	Weight	Q-ty
1	Swing assembly	69	1
2	Embedded element assembly	20	1
3	Nut M16.A2-70 DIN1587 (cap nut) stainless		12
4	Washer 16-A2 DIN 125 (flat)		12
5	Washer 16-A2 DIN 7980 (spring) stainless		12

Picture 6 – LK420

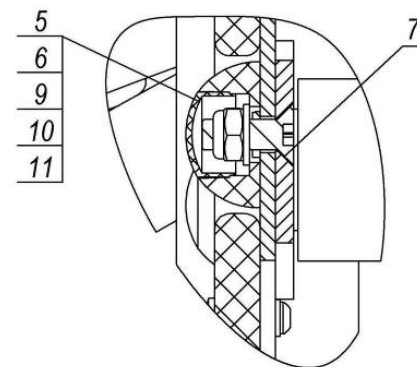


Pos.	Name	Weight	Q-ty
1	Embedded element	10	1
2	Swing	29	1
3	Washer 16-A2 DIN 7980 (spring) stainless		4
4	Nut M16.A2-70 DIN 1587 (cap nut) stainless		4

Picture 7 – LK421



A-A (1 : 2)



Pos.	Name	Weight, kg	Q-ty
1	Rocker assembly	34	1
2	Frame assembly	8	1
3	Frame assembly	8	1
4	Frame extender	9	2
5	Cap M10, M12		4
6	Cup M10, M12		4
7	Stud M10*30.A2-70 DIN 965 (countersunk, PZ) stainless		4
8	Stud M10x45.A2-70 ISO7380 (half round) stainless		8
9	Nut M10 A2-70 DIN 985 (lock nut) stainless		4
10	Washer 10-A2 DIN 125 (flat)		12
11	Washer 10-A2, DIN 7980 (spring) stainless		4

Picture 8 - LK430