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PRODUCTION AND SALE OF SPORTS GOODS

Customer support:
+38 095 273 81 53
play.interatletika.com

DATA SHEET

Playground complex "Space" T921



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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

Length, mm	14096
Width, mm	12719
Height, mm	4491
Weight, kg	3256
Fall height, mm	2029
Age restrictions, years	from 7 to 12
Weight restrictions, kg	Up to 60

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

In order to simplify the assembly and documentation, the manufacturer reserved the right to divide this game complex into two parts for the purpose of convenience: Space-1, Space-2. Each part consists partly of modules, partly of assembly units.

The module is an assembly unit presented together with the fastening elements necessary for installation in the game complex (the set of modules is presented in pic. 3-19)

The assembly unit is an assembled structure, which is shipped by the manufacturer in this form. The fastening elements of the assembly unit are presented in the specifications for parts of the game complex. The annex below (picture 1) shows an approximate breakdown of this product.

The appearance of the complex, specifications, required geometric dimensions are presented also in «Appendix» below (pic. 3,4).

4. PROCEDURE FOR ASSEMBLING AND INSTALLING THE PRODUCT

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

Product assembly and installation procedure.

Product assembly scheme.

- 1) Mark the area as indicated on the layout of the playground foundations (pic.23).
- 2) Dig the holes for the racks installation, maintaining the geometric dimensions. Level the depth of the excavations by deepening them or adding gravel.
- 3) Assemble and install the towers: first assemble the beams with the supports, and then install the platforms into the grooves of the beams (see pic.4). Similarly, assemble and install double towers.
- 4) Connect the towers with each other by means of radial bridges with railings, straight bridges, chain bridge and logs on chains.
- 5) Install roofs on each tower.
- 6) Attach the game elements presented in the set to the towers, according to the pictures of the completeness of the game complex below.
- 7) Install the product according to the level marks on it in accordance with the concreting scheme (pic.22). During installation of the product on sandy soil, the overall dimensions of the foundation should be increased by 15-20%.

5. PRODUCT INSTALLATION SCHEME

Safety zone of the installed product must comply with pic.25.

6. PRODUCT USE

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

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

Do not use the product by users of a different weight category.

Before using the product, clear the safety area from unnecessary objects that may cause harm to the user (debris, tools left after 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.

7. 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.

8. INFORMATION ON STORAGE, TRANSPORT 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.

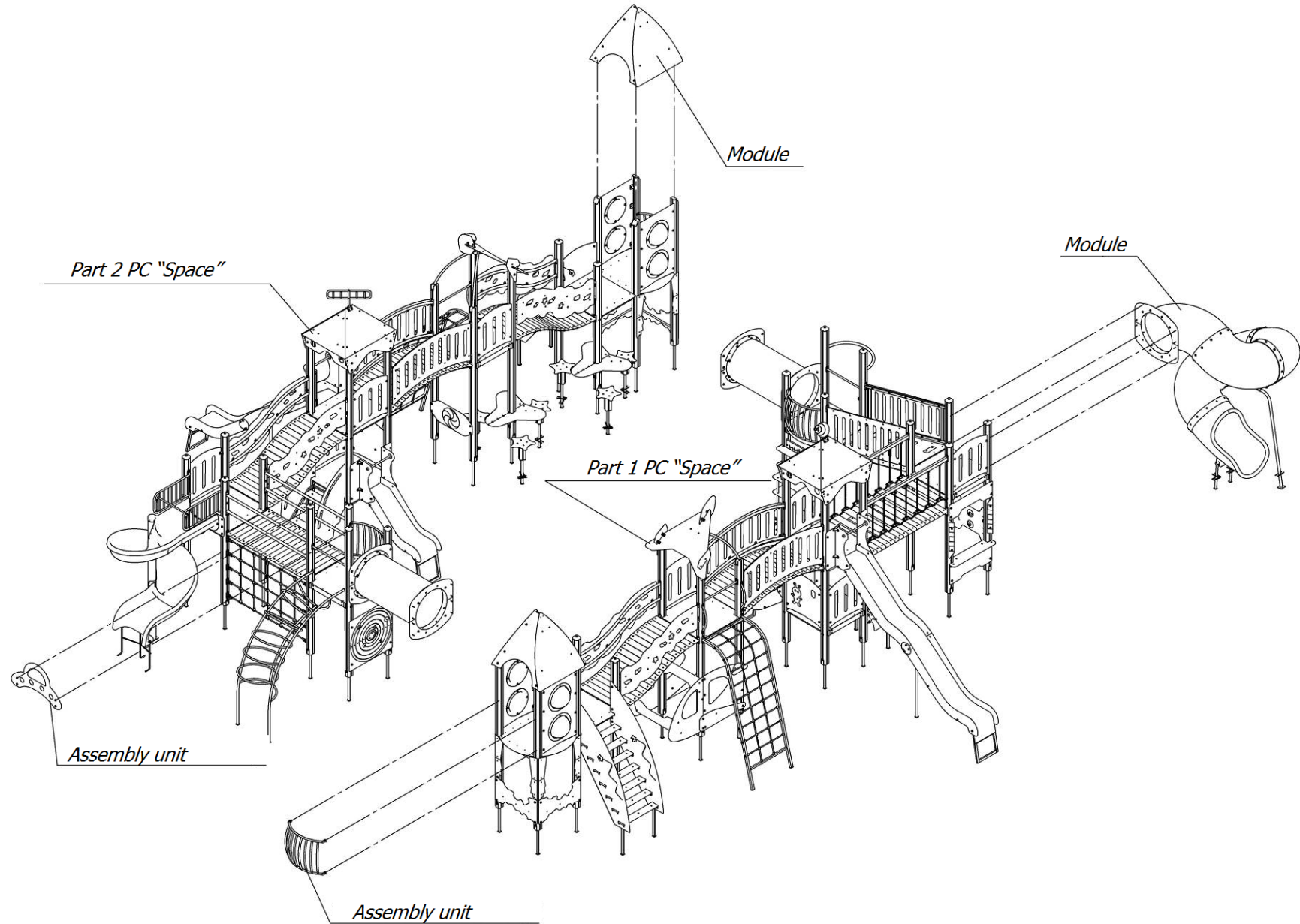
Storage information

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

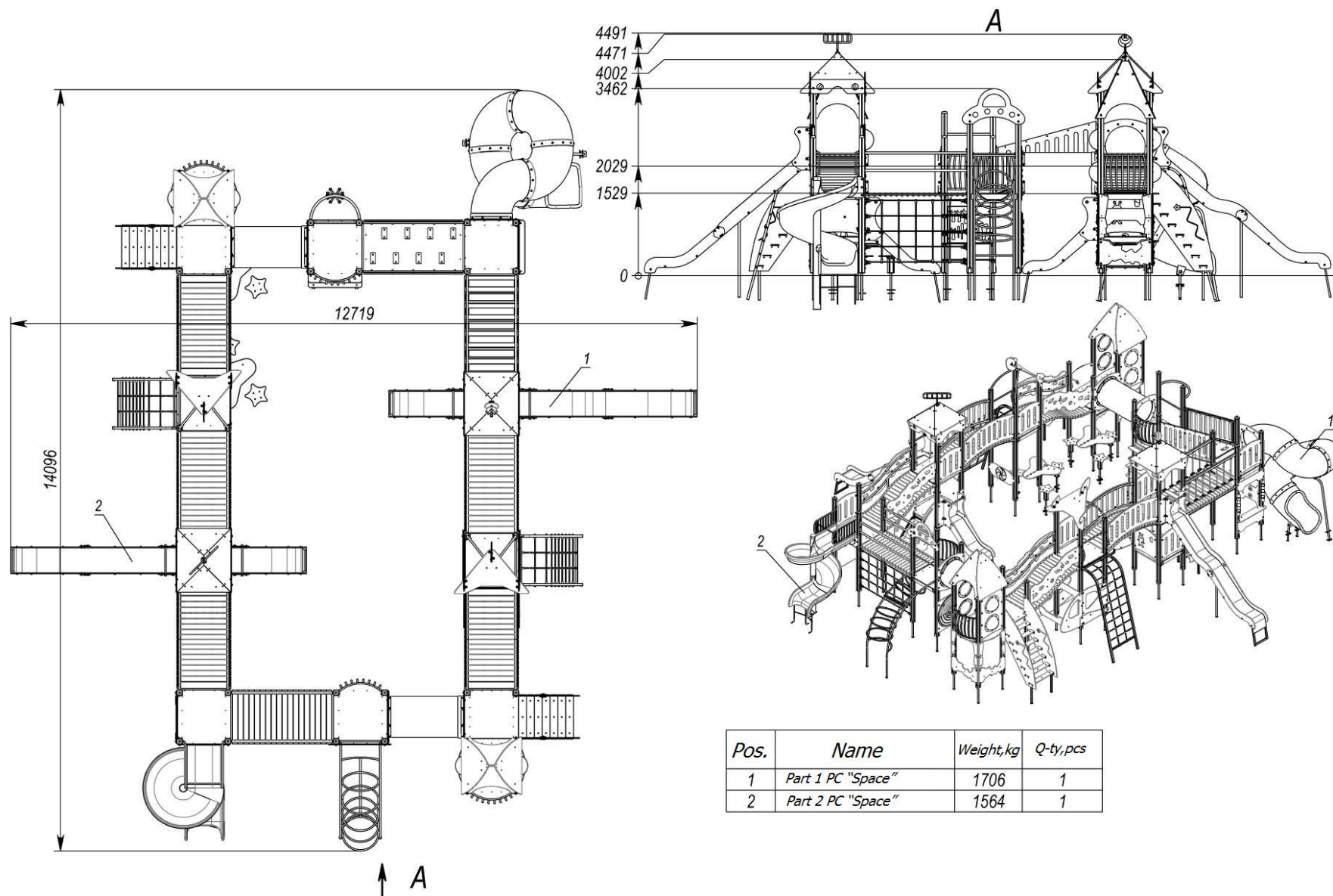
After the end of the equipment's service life, the buyer independently determines the procedure for its use. If you decide to recycle, contact the seller or specialized organizations.

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

Appendix



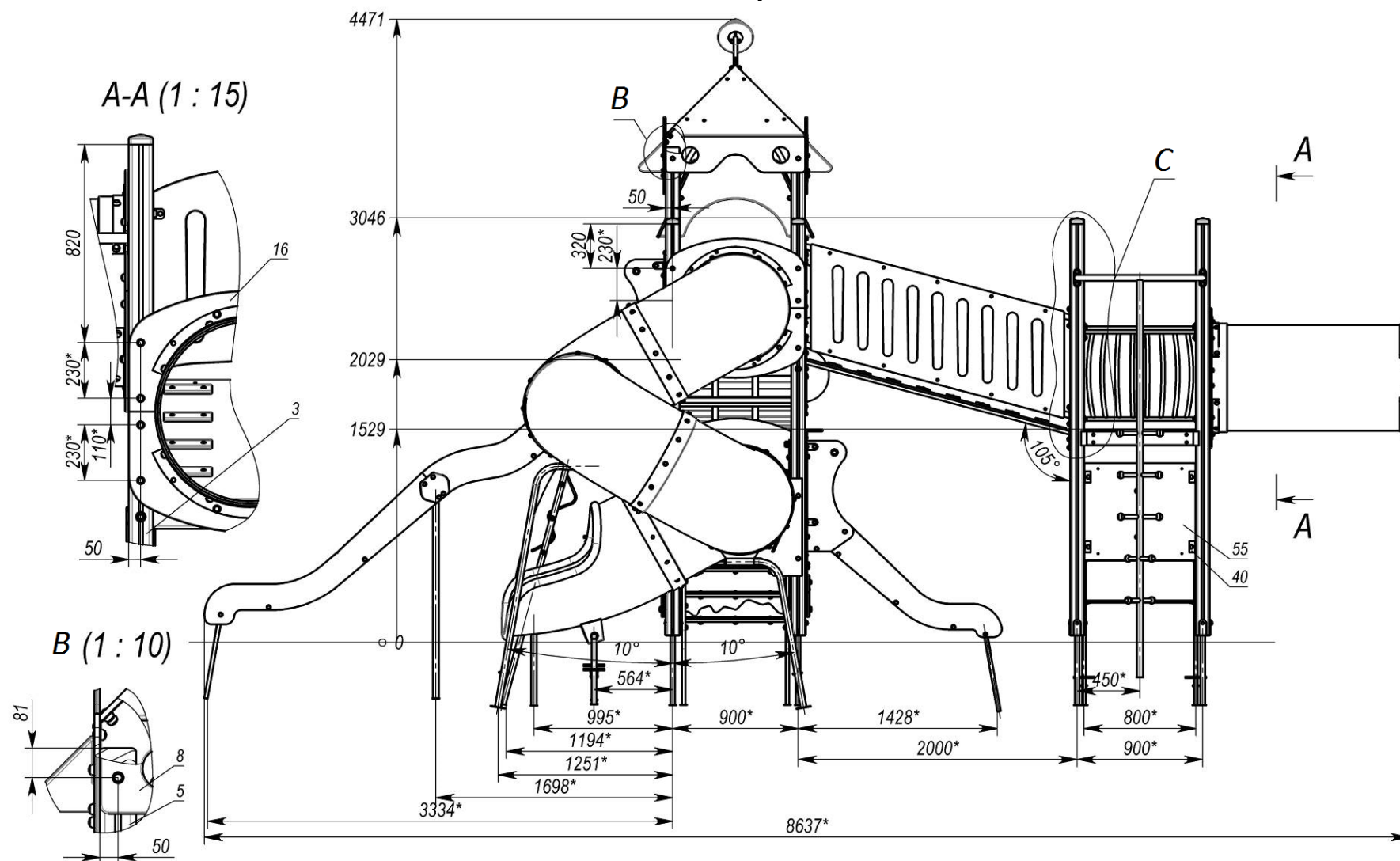
Picture 1 – Dividing the game complex into parts



Pos.	Name	Weight,kg	Q-ty,pcs
1	Part 1 PC "Space"	1706	1
2	Part 2 PC "Space"	1564	1

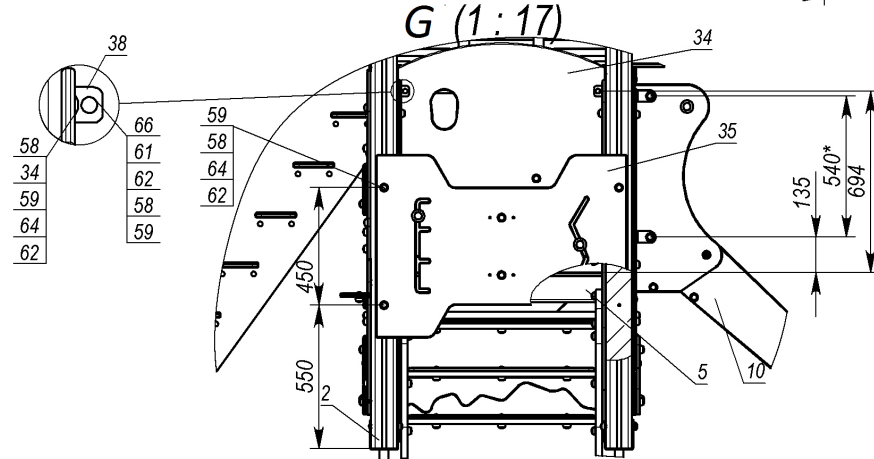
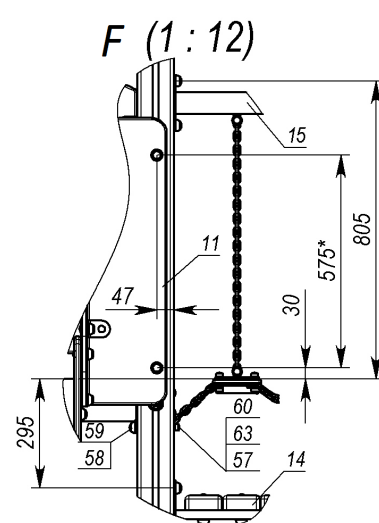
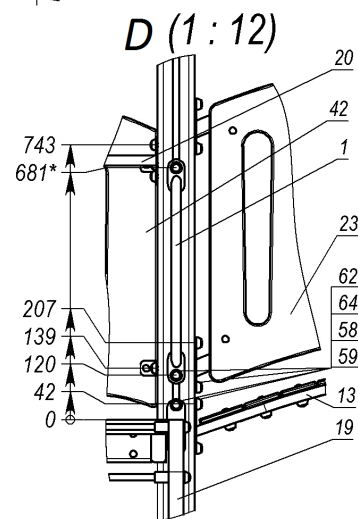
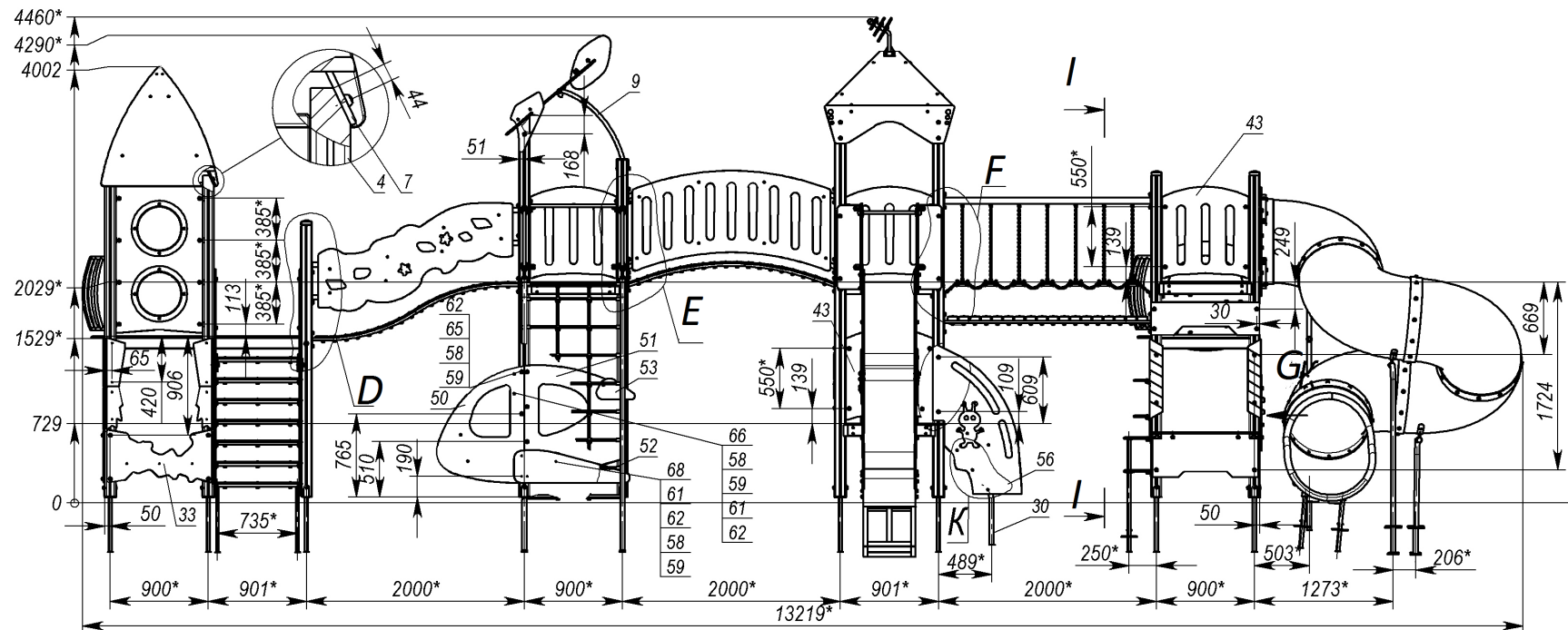
Picture 2 - Appearance and overall dimensions of the complex

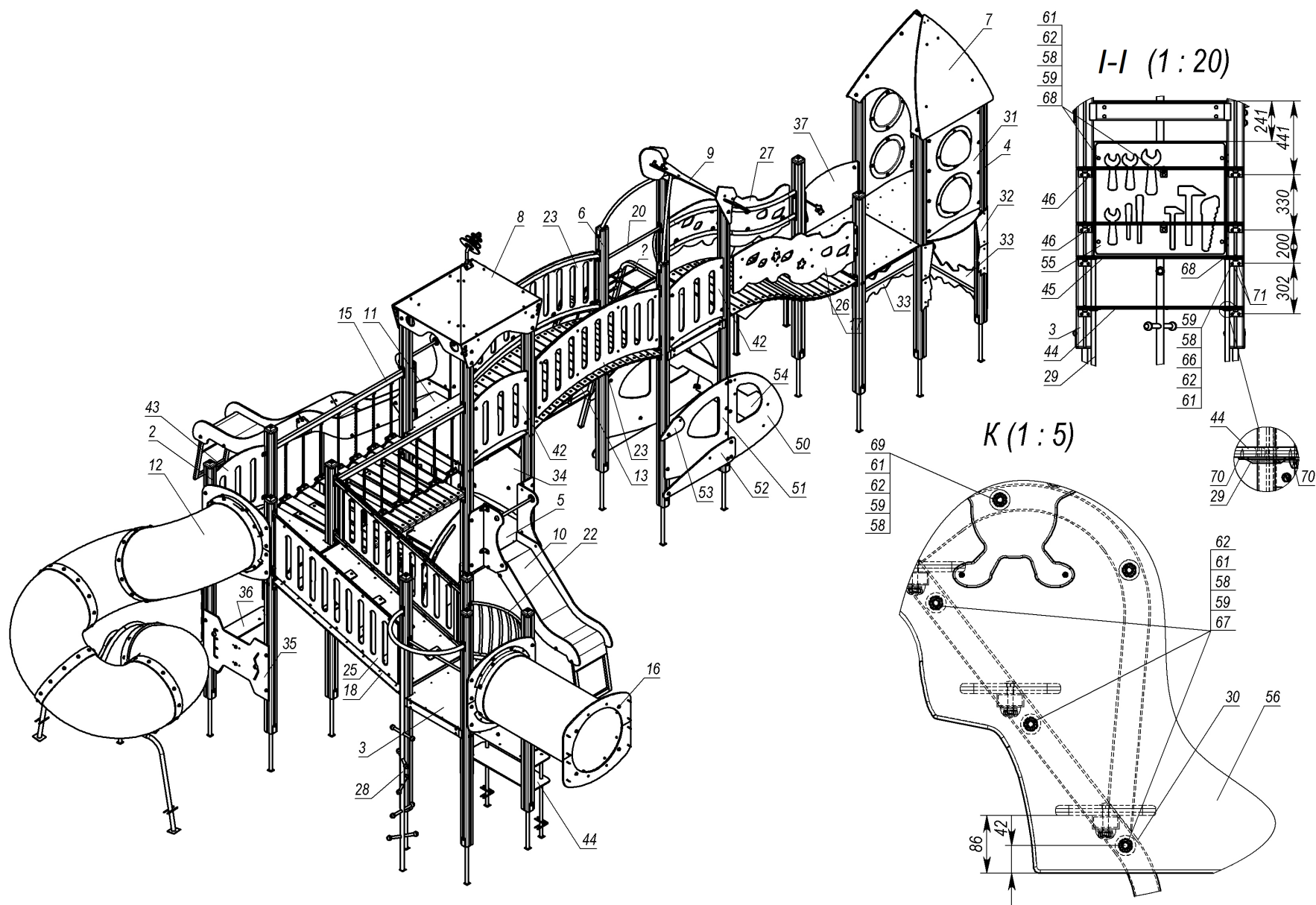
Part 1 PC «Space»

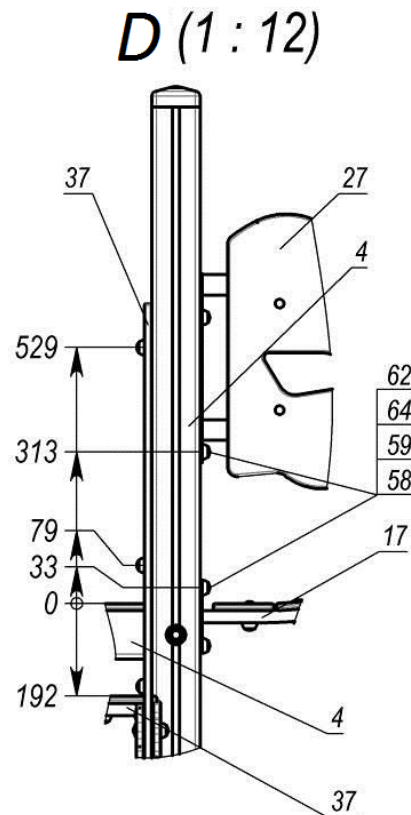
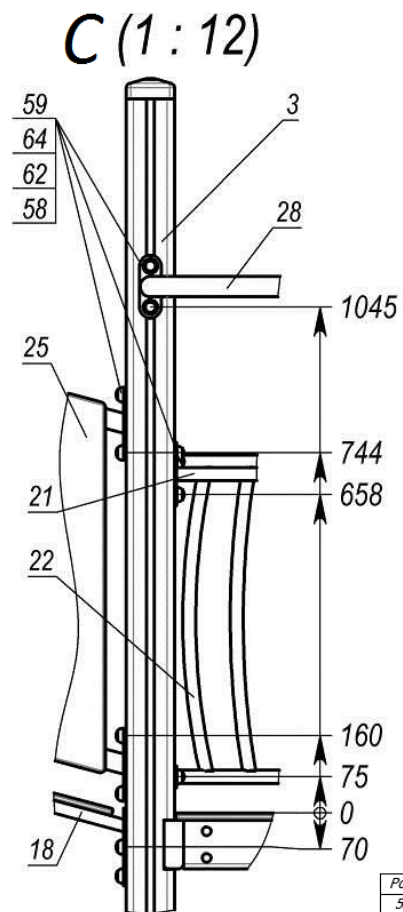


1. Not mentioned tolerances of alignment and symmetry according to GOST25069-81.
2. For screws for fastening the elements of the complex, drill holes with diameter of 5 mm at the place of assembly.
3. Not mentioned fasteners of the complex elements to the bars - using pos. 58,59,62,64.
4. Not mentioned fasteners of elements between the bars with the help of angles of pos.38-41 - with fasteners of pos. 58,59,62,61,66 (to the angles), as well as angles to the beams - pos. 58,59,62,64 or pos. 71 (corner item 40,41).

Picture 3 – Completeness and main characteristics of the first part



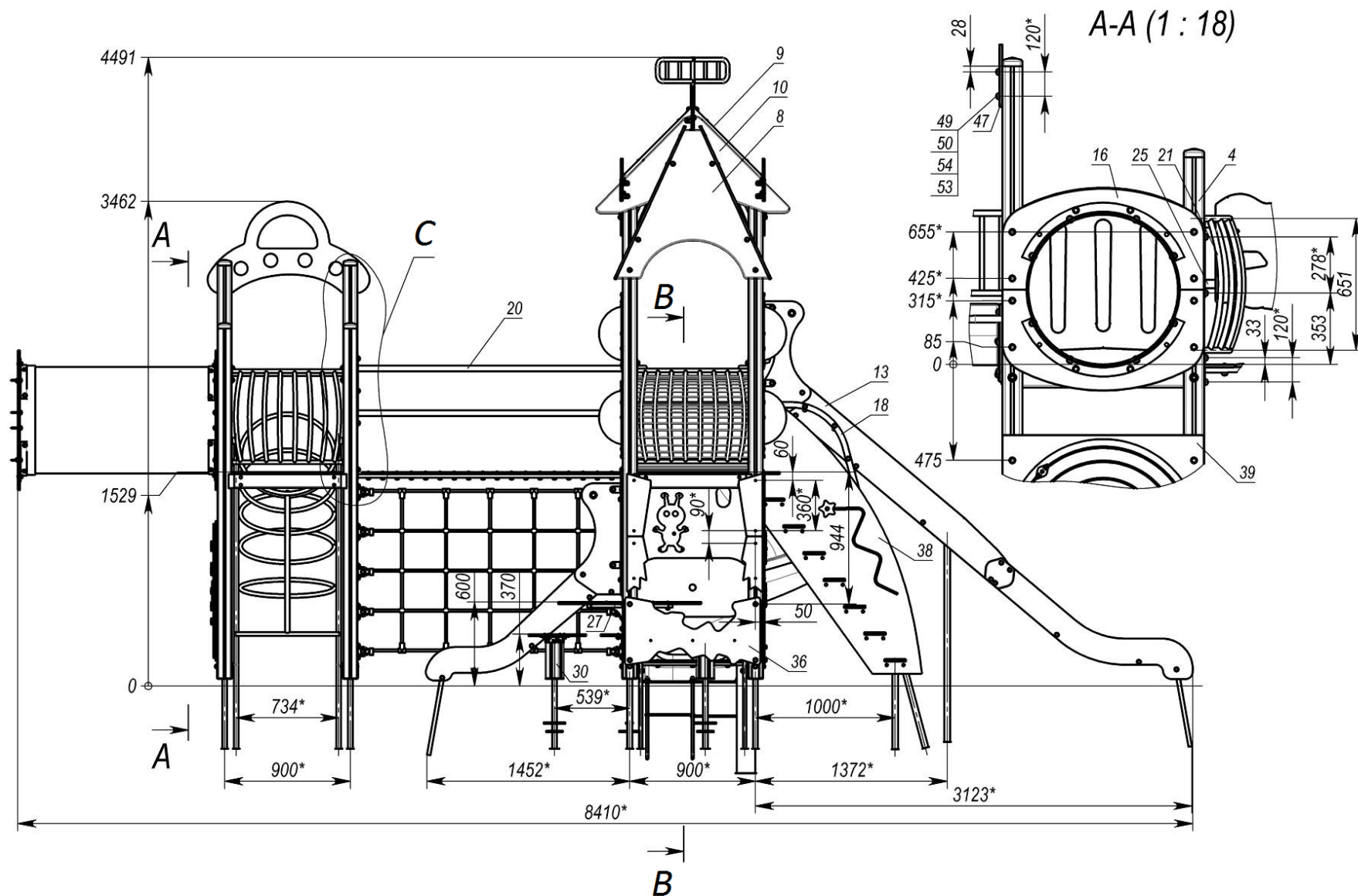




Pos.	Name	Weight, kg	Q-ty
52	Wing	3	2
53	Spoiler	1	2
54	Starship partition	33	1
55	Panel "Workshop"	9	1
56	Stairs railing with cover plate	8	1
57	Cap S13		4
58	Cap M8		252
59	Cup M8		252
60	Bolt M8x120 DIN931		4
61	Nut M8 GOST 5915		82
62	Washer 10 GOST11371		250
63	Washer 8 GOST11371		4
64	Screw 8x50 GOST11473		134
65	Screw 8x70 GOST11473		34
66	Bolt M8x30 GOST7802		58
67	Bolt M8x50 GOST7802		9
68	Bolt M8x40 GOST7802		12
69	Bolt M8x60 GOST7802		1
70	Screw 4x16 GOST1145		4
71	Screw 4x70 GOST1145		56

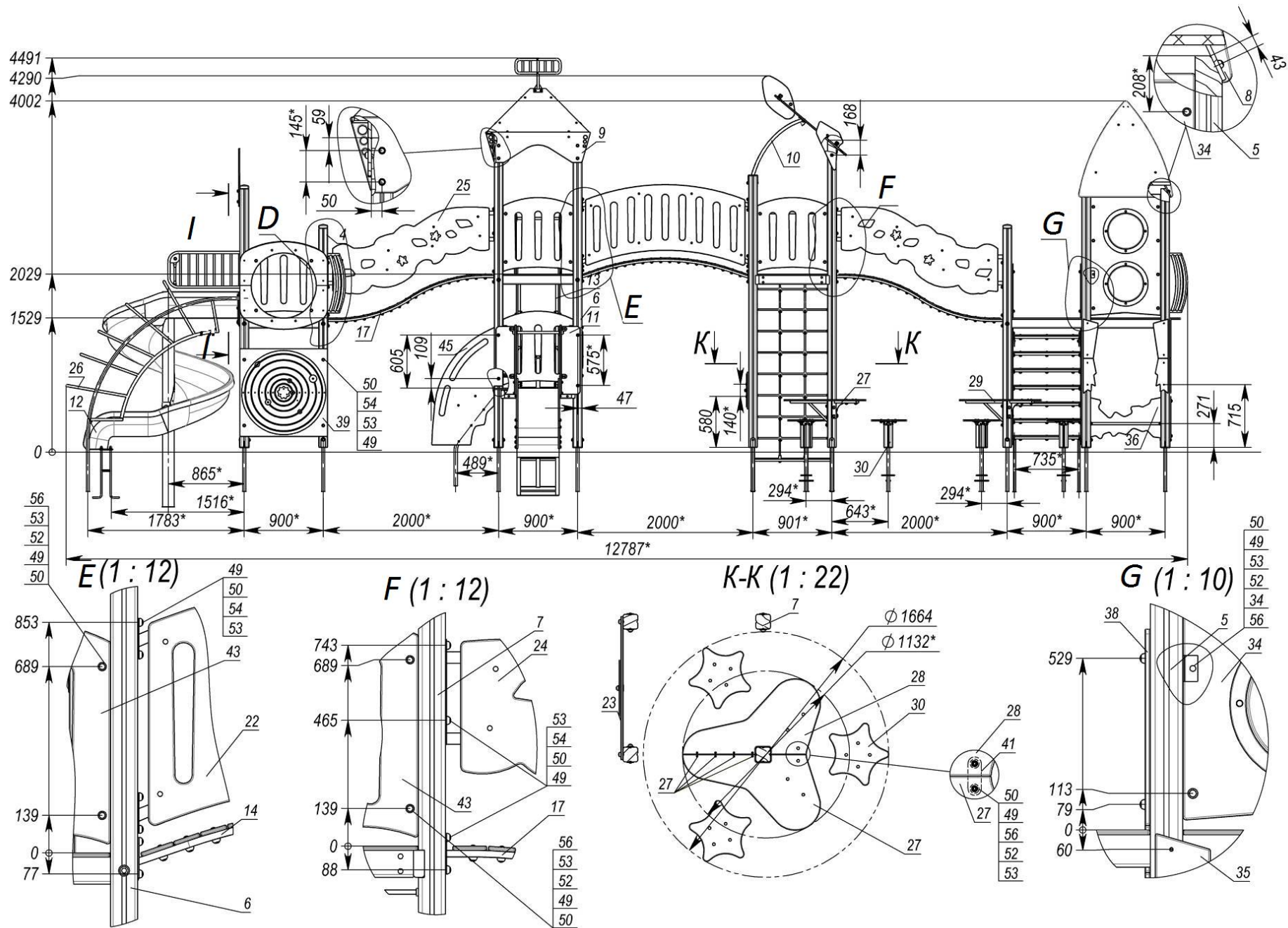
Pos.	Name	Weight, kg	Q-ty
1	Stairs handle	2	2
2	Tower 2v 1x1	93	1
3	Tower 1.5 m (beams 2.5-2.95 m)	89	1
4	Double tower (1.9x1m)	143	1
5	Tower 0.7-2m (beam 3.5m)	107	1
6	Tower 2m (beam 3.5-3.1m)	100	1
7	Roof "Rocket"	32	1
8	Roof "Space-2"	37	1
9	Roof "Space shuttle"	17	1
10	Slide 700 assembly		1
11	Wavy slide (2m) assembly	88	1
12	Slide Ukhimplast (2m)	198	1
13	Radial bridge (plywood TPS)	42	1
14	Straight bridge assembly	60	1
15	Chain bridge (plywood TPS)	54	1
16	Tunnel crossing (Ukhimplast)	56	1
17	Wavy bridge (plywood TPS)	40	1
18	Inclined bridge (plywood TPS)	39	1
19	Rope crossing (2m)	25	1
20	Brace rod 0.8 m assembly		1
21	Brace rod 0.8 m assembly		1
22	Arch balcony (0.9m)	11	2
23	Arch railing (with grooves)	24	2
24	Inclined bridge railings left	23	1
25	Inclined bridge railings right	23	1
26	Wavy railings (drop 500 mm) right	23	1
27	Wavy railings (drop 500 mm) left	23	1
28	Ladder - climber	15	1
29	Workshop support	2	2
30	Ladder "Space" (0.7m)	18	1
31	Panel "Rocket" with portholes	14	2
32	Reactive trace	3	3
33	Smoke trail	5	2
34	Panel "UFO" with cover plate	7	1
35	Dashboard	7	1
36	Cash desk	7	1
37	Ladder (1.5m) Space	54	1
38	Angle bar 45x45x40 (90 degrees)		20
39	Angle bar 45x45x40 (90 degrees)		10
40	Big angle bar		12
41	Big angle bar		16
42	Small fence (with grooves)	6	2
43	Small fence (with grooves)	6	2
44	Lower table	32	1
45	Upper table	28	1
46	Shelf	16	2
47	Stairs railing (0.7m)	8	1
48	Cash register visor	3	2
49	Shutters	1	2
50	Front of the starship	6	2
51	Starship cabin	8	2

Part 2 PC «Space»

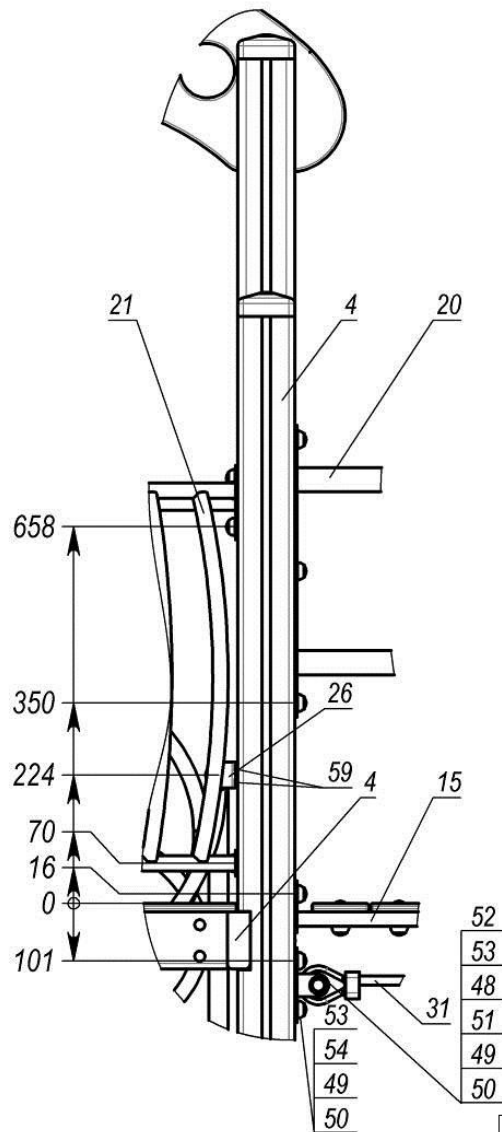


1. Not mentioned tolerances of alignment and symmetry according to GOST25069-81.
2. For screws for fastening the elements of the complex, drill holes with diameter of 5 mm at the place of assembly.
3. The fastening of the complex elements to the bars are not mentioned - using pos. 49,50,53,54.
4. Not mentioned fastening of elements between the bars with the help of angles of pos. 40,42 - by fasteners of pos. 50,49,56,53,52 (to the angles), as well as the angles to the bars - pos. 49,50,53,54 or pos. 60 (corner item 42). T colour=D>

Picture 4 – Completeness and main characteristics of the second part

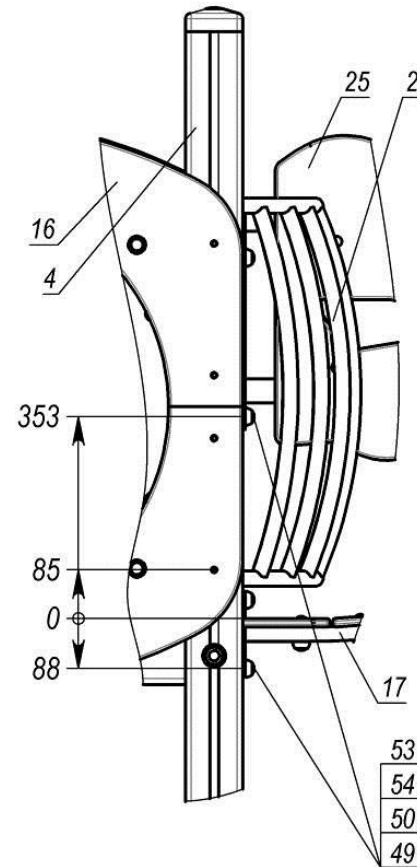


C (1 : 10)

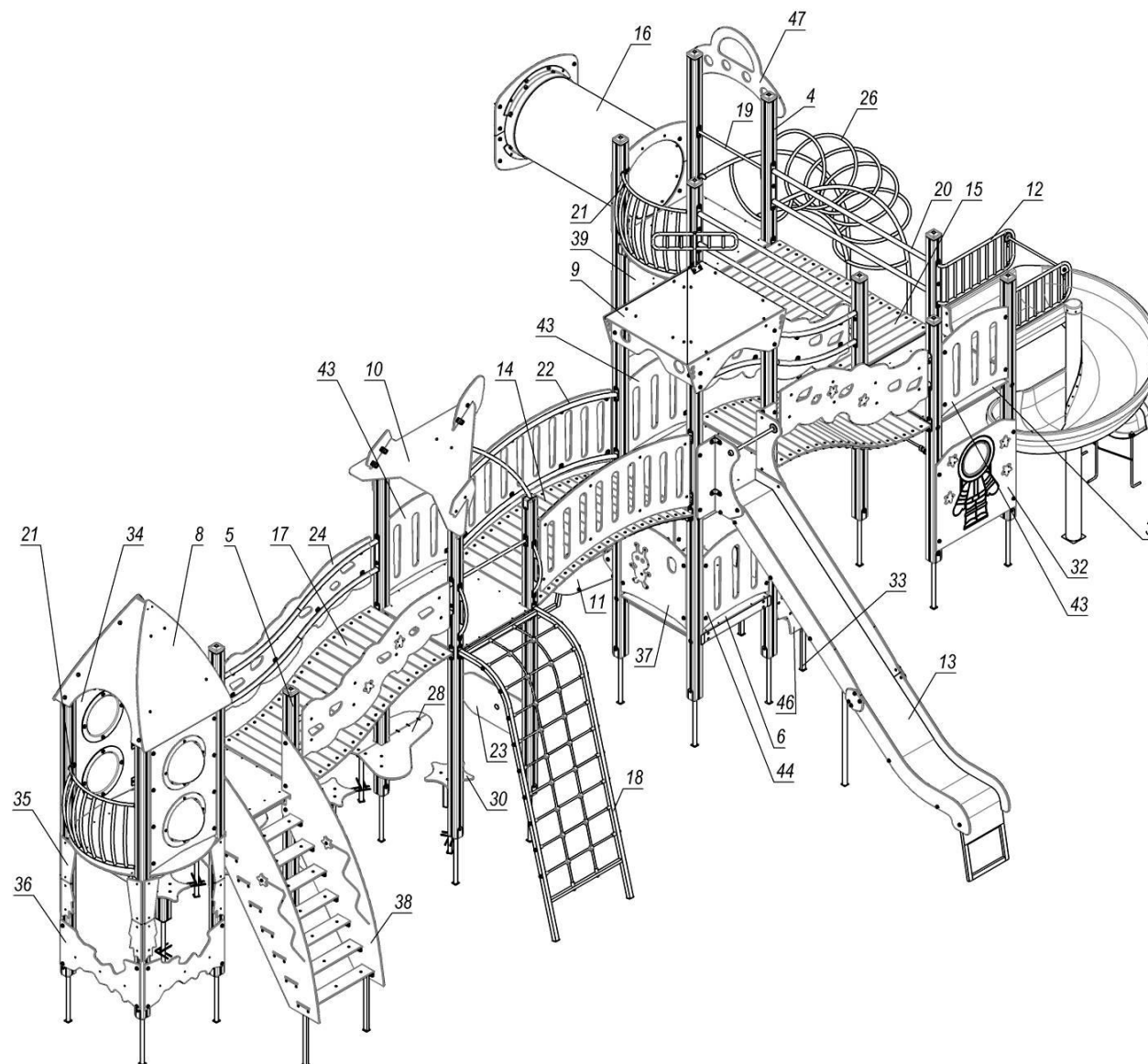


Pos.	Name	Weight, kg	Q-ty
51	Bolt M8x45 GOST7798		10
52	Nut M8 GOST5915		60
53	Washer 10 GOST11371		240
54	Screw 8x50 GOST11473		170
55	Screw with drill 4.8x32 DIN7504P	7	16
56	Bolt M8x30 GOST7802		40
57	Bolt M8x50 GOST7802		9
58	Bolt M8x60 GOST7802		1
59	Screw 6x50 GOST1145		4
60	Screw 6x70 GOST1145		32

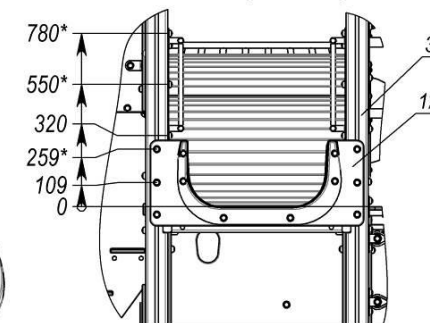
D (1 : 10)



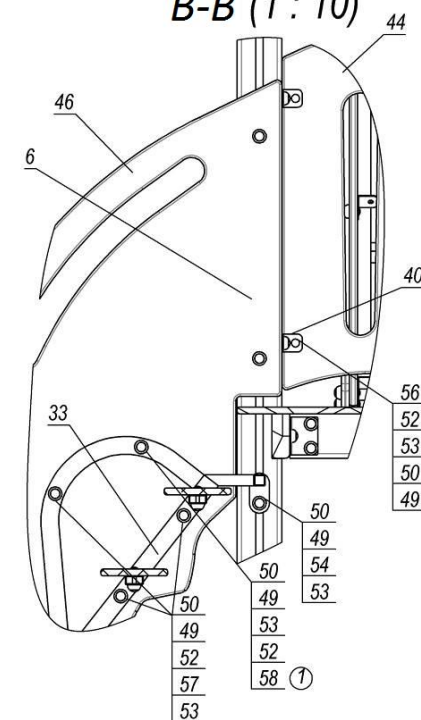
Pos.	Name	Weight, kg	Q-ty
1	Stairs handle	1	2
2	Bracket		10
3	Tower (1.5m) with hardware	84	1
4	Tower 1.5m (beams 2.5-2.95m)	89	1
5	Double tower (1.9x1m)	143	1
6	Tower 0.7-2m (beam 3.5m)	107	1
7	Tower 2m (beam 3.5-3.1m)	100	1
8	Roof "Rocket"	32	1
9	Roof "Space-1"	38	1
10	Roof "Space shuttle"	18	1
11	Slide 700 assembly		1
12	Spiral slope assembly	84	1
13	Slide 2m assembly	84	1
14	Radial bridge (plywood TPS)	42	1
15	Straight bridge (plywood TPS)	39	1
16	Tunnel crossing (Ukrhimplast)	56	1
17	Wavy bridge (plywood TPS)	40	2
18	Rope crossing (2m)	25	1
19	Brace rod 0.8 m assembly		2
20	Straight railings assembly	12	2
21	Arch balcony (0.9m)	11	2
22	Arch railing (with grooves)	24	2
23	Panel "Illusion"	5	1
24	Wavy railings (drop 500mm) right	23	2
25	Wavy railings (drop 500mm) left	23	2
26	Ladder-caterpillar	35	1
27	Half of the table with fastening	4	2
28	Half of the table with fastening	4	2
29	Lining	2	2
30	Chair "Star" assembly		6
31	Rope mesh (1.3x1.9)	8	1
32	Panel "Spaceman" with cover plates	10	1
33	Ladder "Space" (0.7m)	15	1
34	Panel "Rocket" with portholes	14	2
35	Reactive trace	3	3
36	Smoke trail	5	2
37	Panel "UFO" with cover plate	7	1
38	Ladder (1.5m) Space	54	1
39	Panel "Solar system"	19	1
40	Angle bar 45x45x40 (90 degrees)		20
41	Flange 3x45x130 mm		2
42	Big angle bar		16
43	Small fence (with grooves)	6	3
44	Small fence (with grooves)	6	1
45	Stairs railing (0.7m)	8	1
46	Stairs railing with cover plate	8	1
47	Panel "Space2"	4	1
48	Tube d12x1.5 GOST10704, L=22mm		10
49	Cap M8		240
50	Cup M8		240

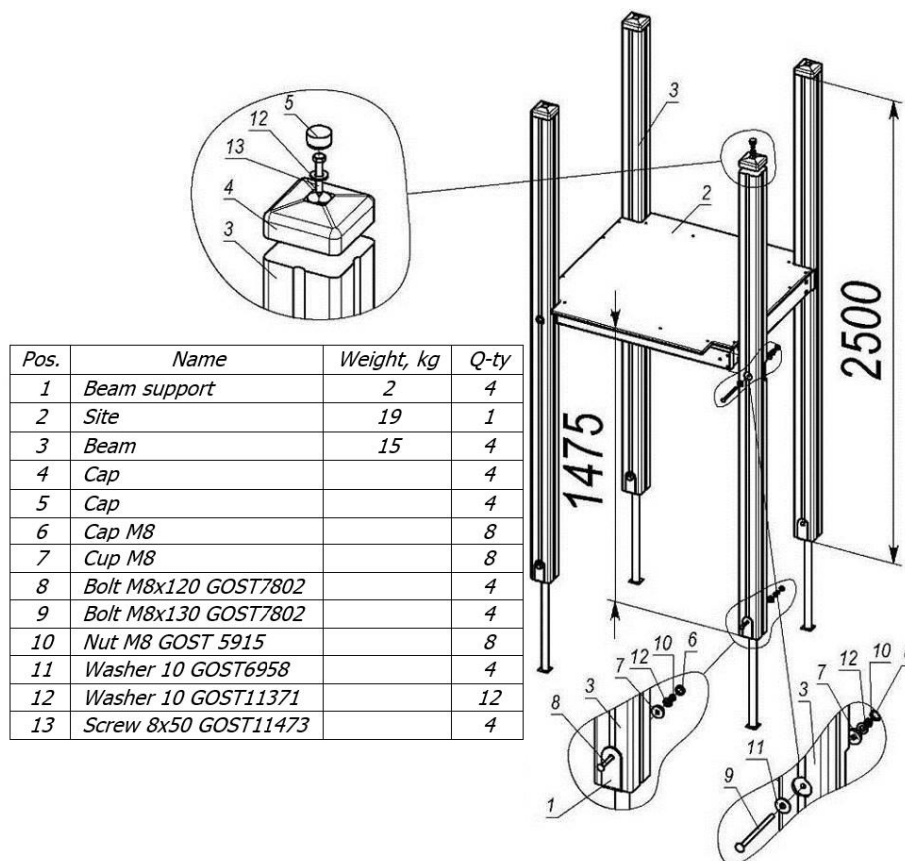


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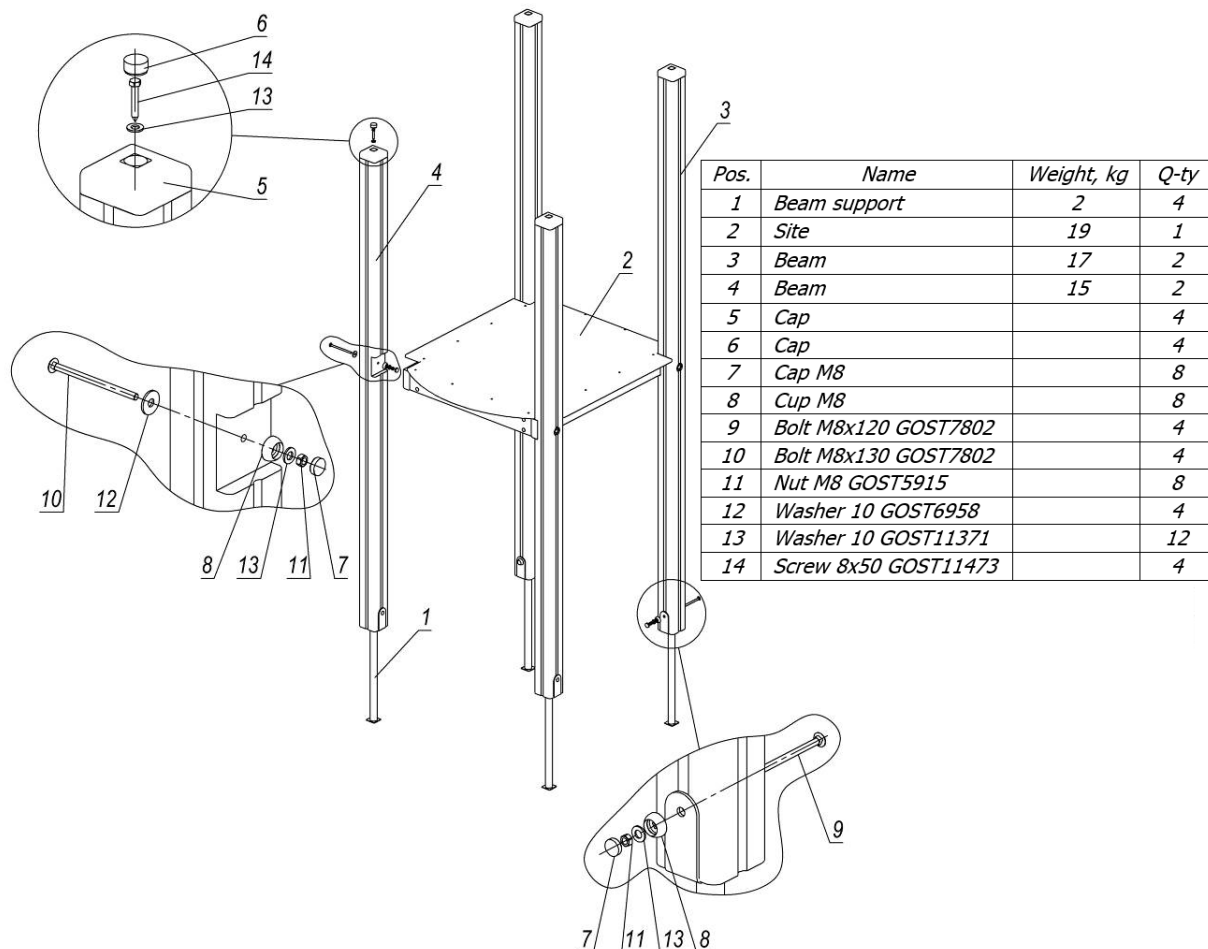


B-B (1 : 10)

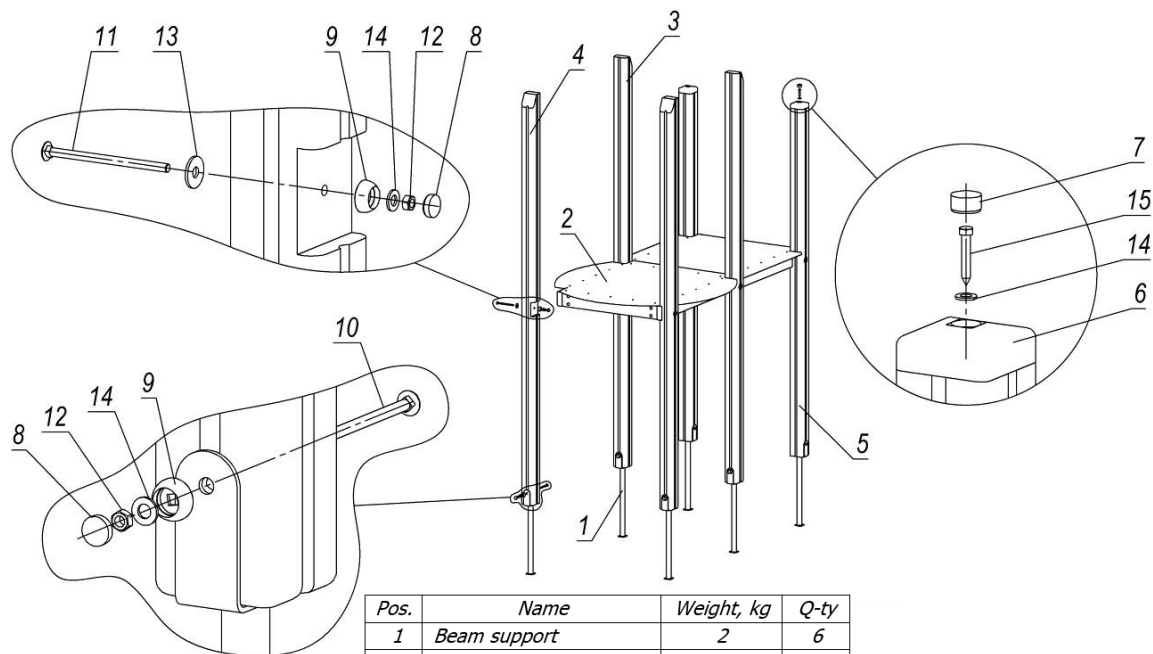




Picture 5 – Assemble and install the tower with with site height of 1.5m above the ground

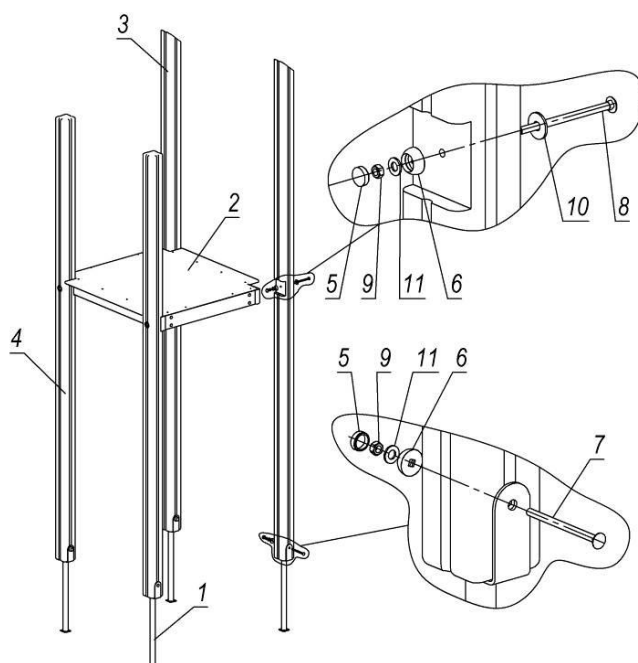


Picture 6 – Assemble and install the tower with with site height of 1,5m (beams 2,5-2,95m) above the ground



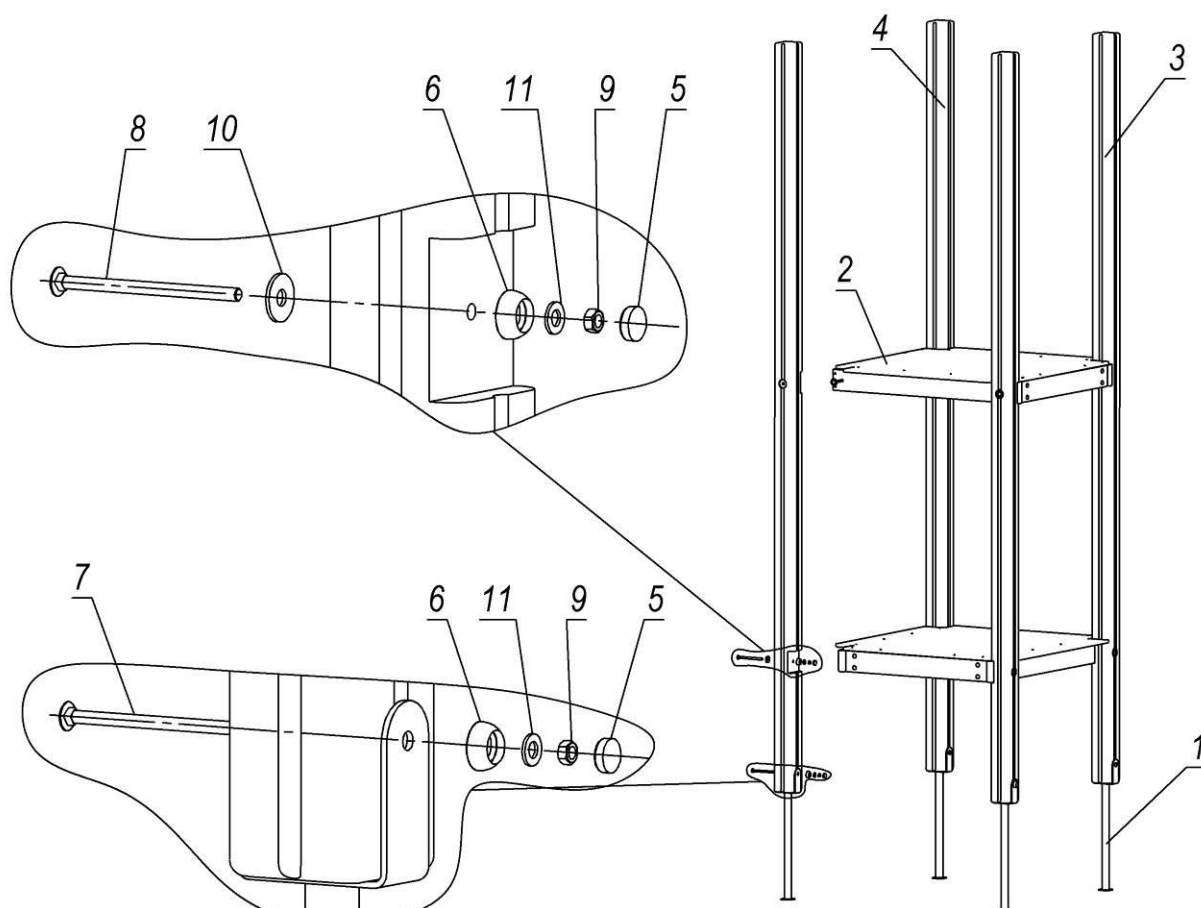
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	6
2	Double site (1.9x1m)	37	1
3	Beam 2.95m (with cut)	17	2
4	Beam 2.95m (with cut)	17	2
5	Beam	15	2
6	Cap		2
7	Cap		2
8	Cap M8		12
9	Cup M8		12
10	Bolt M8x120 GOST7802		6
11	Bolt M8x130 GOST7802		6
12	Nut M8 GOST5915		12
13	Washer 10 GOST6958		6
14	Washer 10 GOST11371		14
15	Screw 8x50 GOST11473		2

Picture 7 – Assemble and install double tower (1,9 x 1 m)



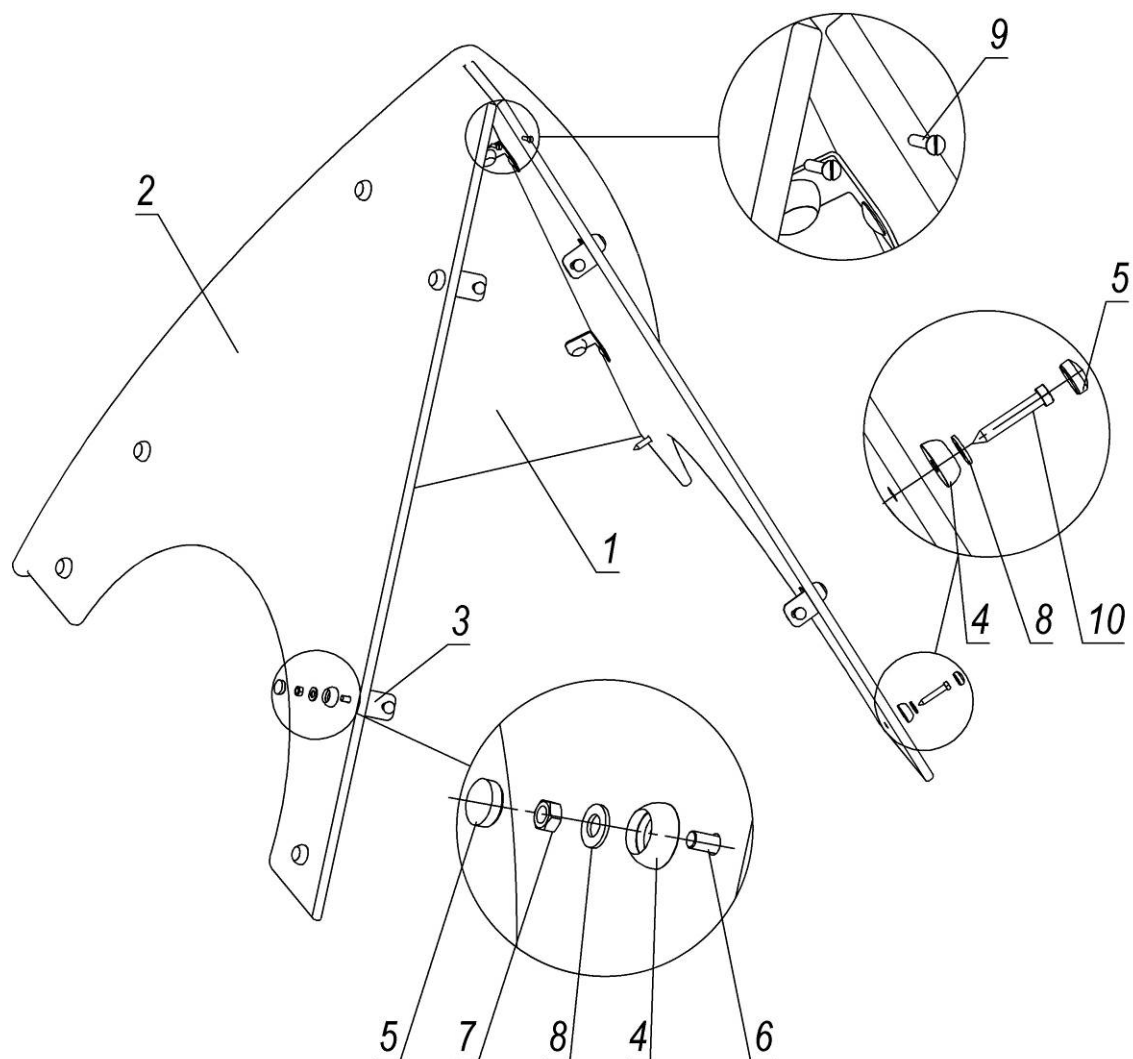
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	1
3	Beam 3.5m (cut)	20	2
4	Beam (3.1m)	18	2
5	Cap M8		8
6	Cup M8		8
7	Bolt M8x120 GOST7802		4
8	Bolt M8x130 GOST7802		4
9	Nut M8 GOST5915		8
10	Washer 10 GOST6958		4
11	Washer 10 GOST11371		8

Picture 8 - Assemble and install the tower with site height of 2m (beam 3,5-3,1m) above the ground



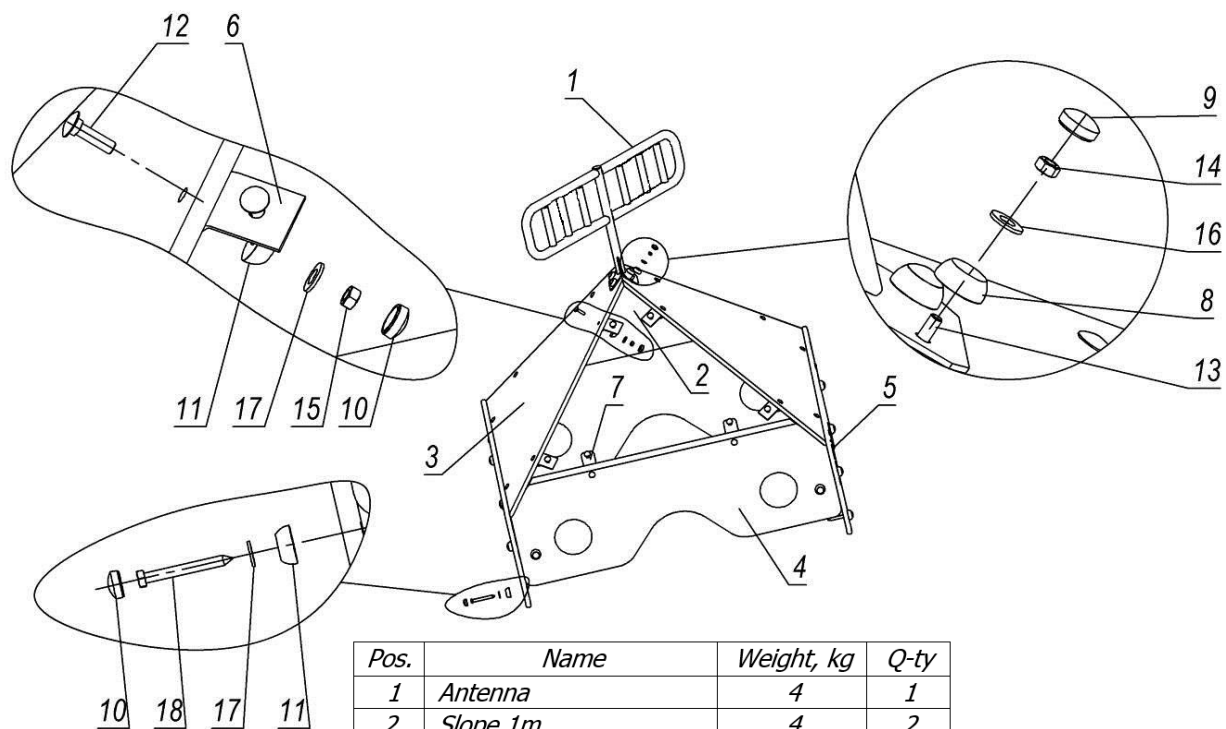
<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Beam support	2	4
2	Site	19	2
3	Beam 3.5m	11	2
4	Beam 3.5m	20	2
5	Cap M8		12
6	Cup M8		12
7	Bolt M8x120 GOST7802		4
8	Bolt M8x130 GOST7802		8
9	Nut M8 GOST5915		12
10	Washer 10 GOST6958		8
11	Washer 10 GOST11371		12

Picture 9 - Assemble and install the tower with two sites (sites height from the ground - 0,7 i 2m;
beam - 3,5 m)



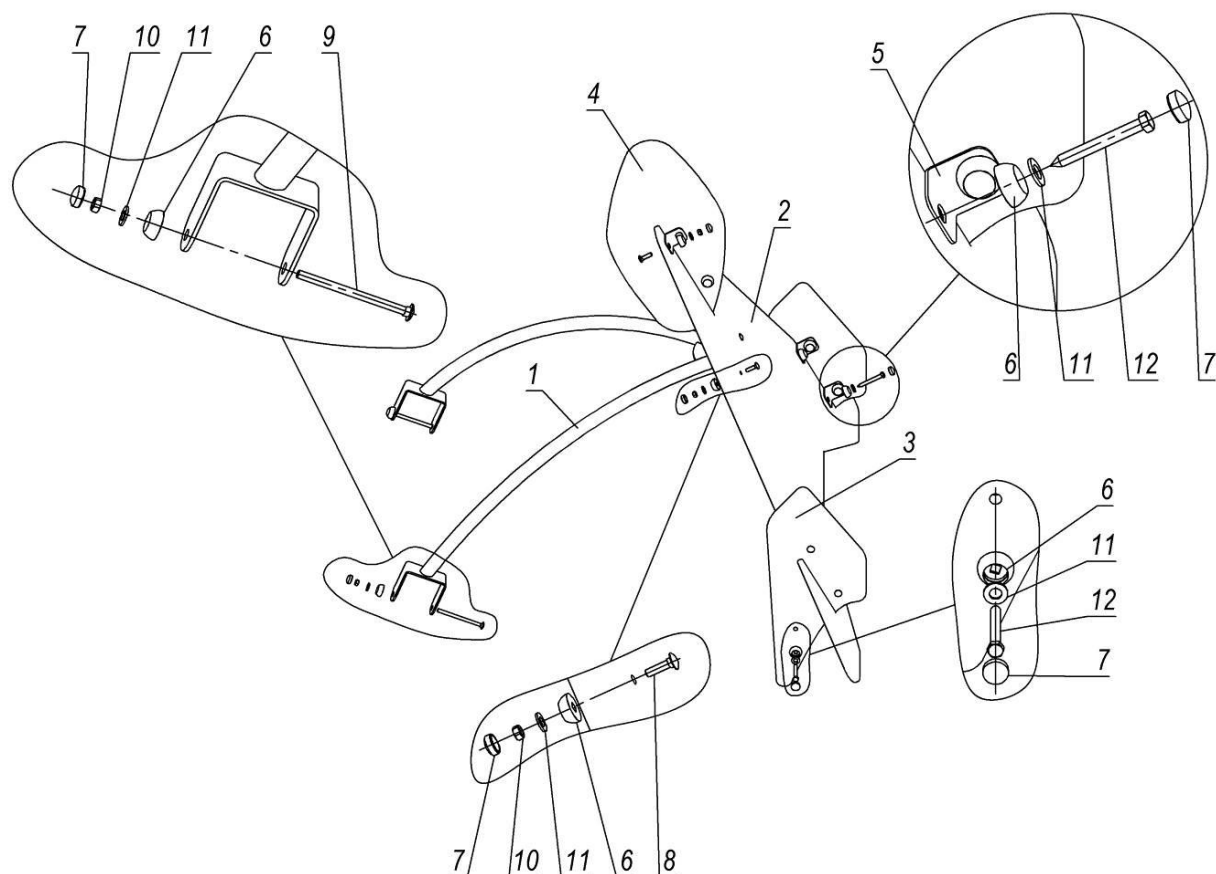
Pos.	Name	Weight, kg	Q-ty
1	Slope	9	2
2	Pediment	6	2
3	Angle bar		8
4	Cup M8		20
5	Cap M8		20
6	Bolt M8x30 GOST7802		16
7	Nut M8 GOST5915		16
8	Washer 10 GOST11371		20
9	Screw 5x35 GOST1145		4
10	Screw 8x50 GOST11473		4

Picture 10 – Assembly scheme and completeness of roof «Rocket»



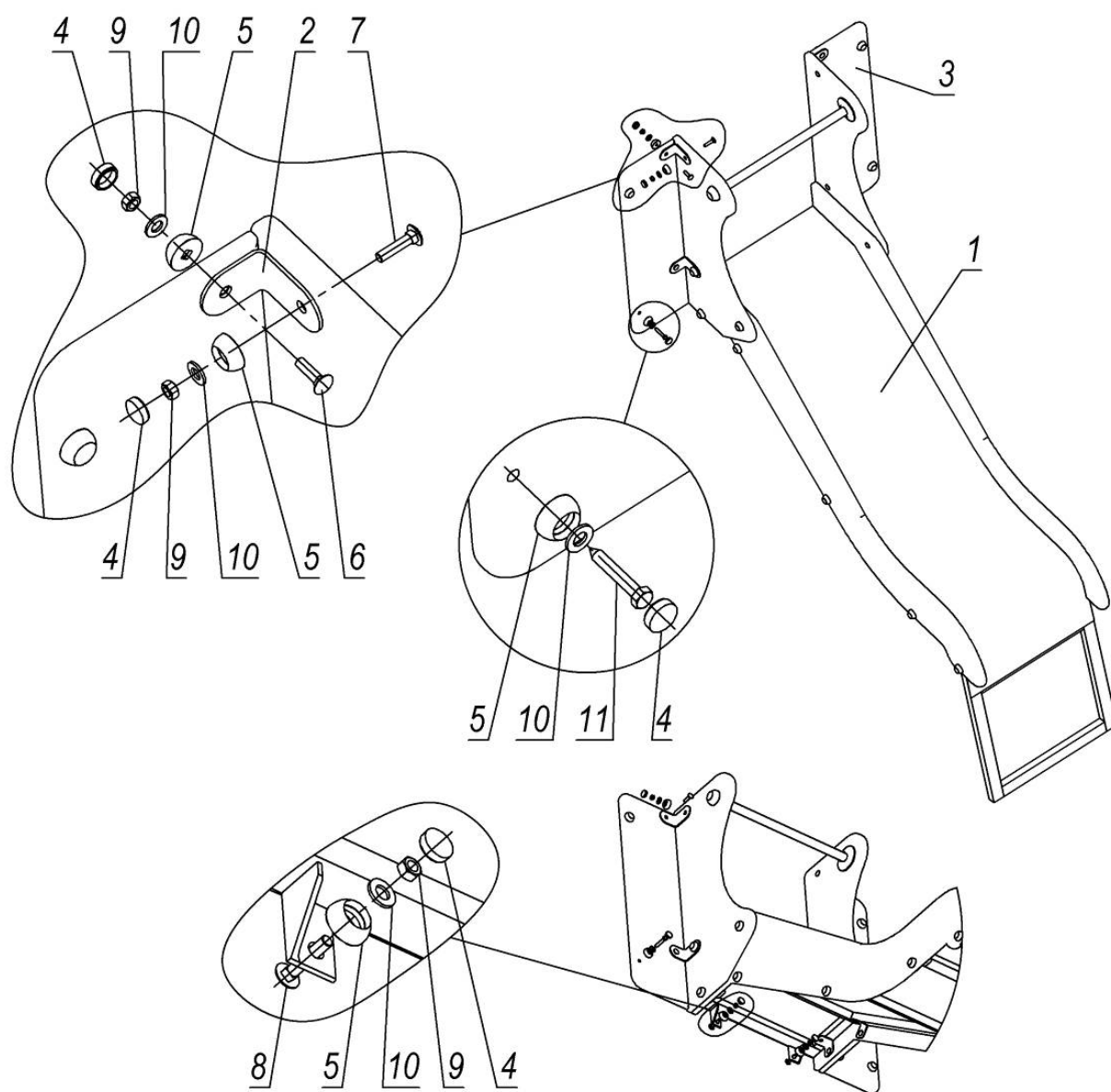
Pos.	Name	Weight, kg	Q-ty
1	Antenna	4	1
2	Slope 1m	4	2
3	Slope	5	2
4	Pediment (1m)	3	2
5	Pediment (1.2m)	3	2
6	Angle bar		8
7	Angle bar		8
8	Cup M6		4
9	Cap M6		4
10	Cap M8		44
11	Cup M8		44
12	Bolt M8x30 GOST7802		32
13	Bolt M6x30 GOST7802		4
14	Nut M6 GOST5915		4
15	Nut M8 GOST5915		32
16	Washer 8 GOST11371		4
17	Washer 10 GOST11371		44
18	Screw 8x70 GOST11473		12

Picture 11 – Assembly scheme and completeness of the roof «Space»



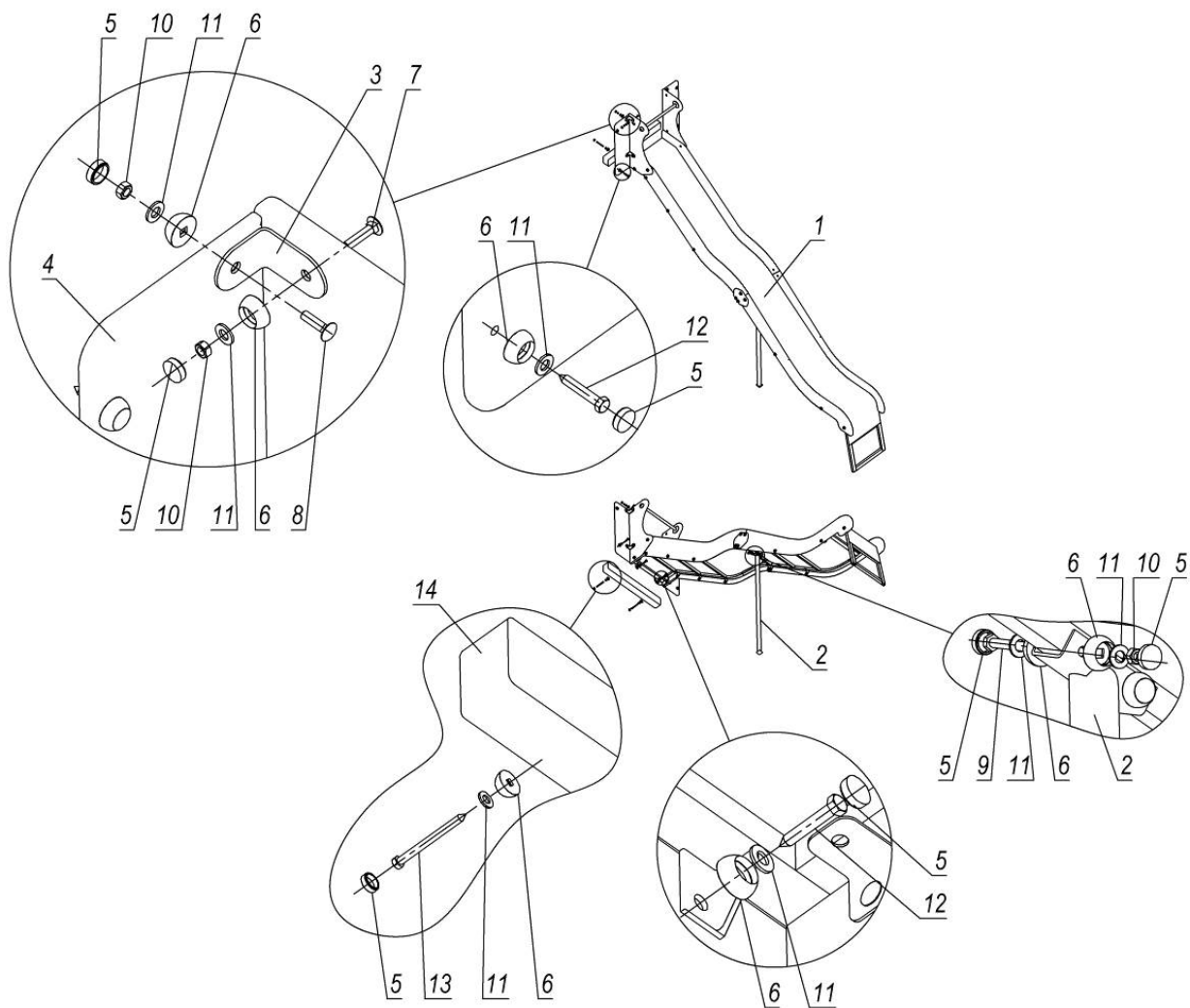
Pos.	Name	Weight, kg	Q-ty
1	Roof support	6	1
2	Site	8	1
3	Accelerator		2
4	Bow element	1	1
5	Angle bar 45x45x40 (90 degrees)		6
6	Cup M8		18
7	Cap M8		18
8	Bolt M8x30 GOST7802		12
9	Bolt M8x120 GOST7802		2
10	Nut M8 GOST5915		14
11	Washer 10 GOST11371		18
12	Screw 8x70 GOST11473		4

Picture 12 – Assembly scheme and completeness of the roof «Space shuttle»



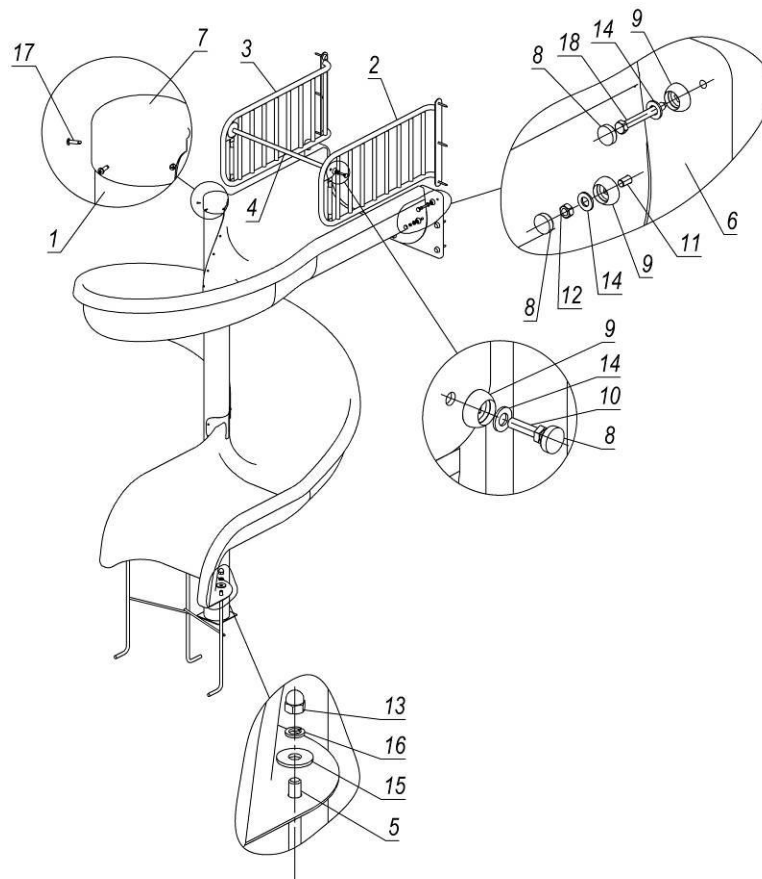
Pos.	Name	Weight, kg	Q-ty
1	Slide 700 mm	38	1
2	Angle		4
3	Fence	2	2
4	Cap M8		14
5	Cup M8		14
6	Bolt M8x30 GOST7802		4
7	Bolt M8x35 GOST7802		4
8	Bolt M8x40 GOST7802		2
9	Nut M8 GOST5915		10
10	Washer 10 GOST11371		14
11	Screw 8x50 GOST11473		4

Picture 13 – Assembly scheme and completeness of the slide on the site height 700 mm.



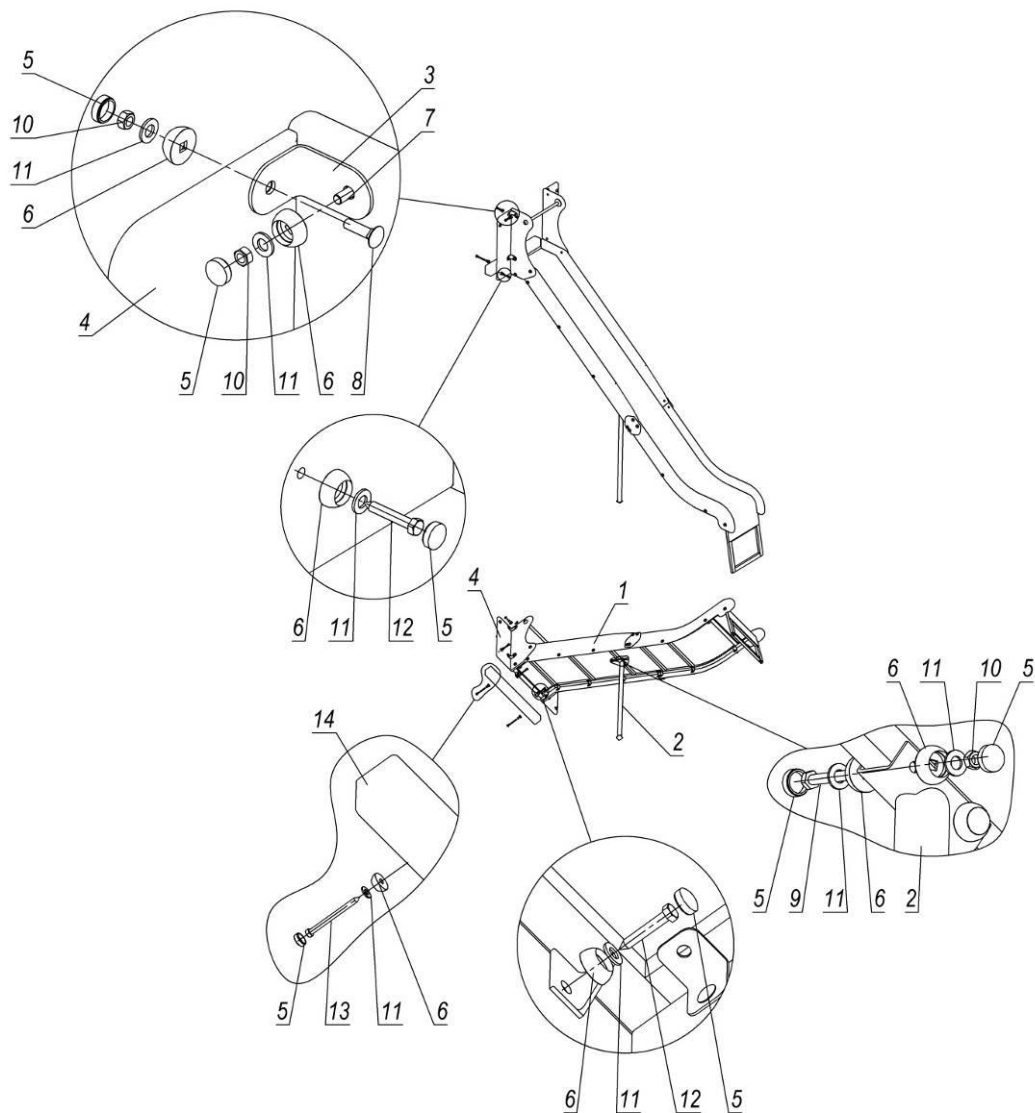
Pos.	Name	Weight, kg	Q-ty
1	Wavy slide (2m)	77	1
2	Support for 2m slide	4	1
3	Angle bar		4
4	Fence	2	2
5	Cap M8		20
6	Cup M8		20
7	Bolt M8x35 GOST7802		4
8	Bolt M8x30 GOST7802		4
9	Bolt M8x65 GOST7802		2
10	Nut M8 GOST5915		10
11	Washer 10 GOST11371		20
12	Screw 8x50 GOST11473		6
13	Screw 8x100 GOST11473		2
14	Beam	2	1

Picture 14 - Assembly scheme and completeness of the slide on the site height 2 m.



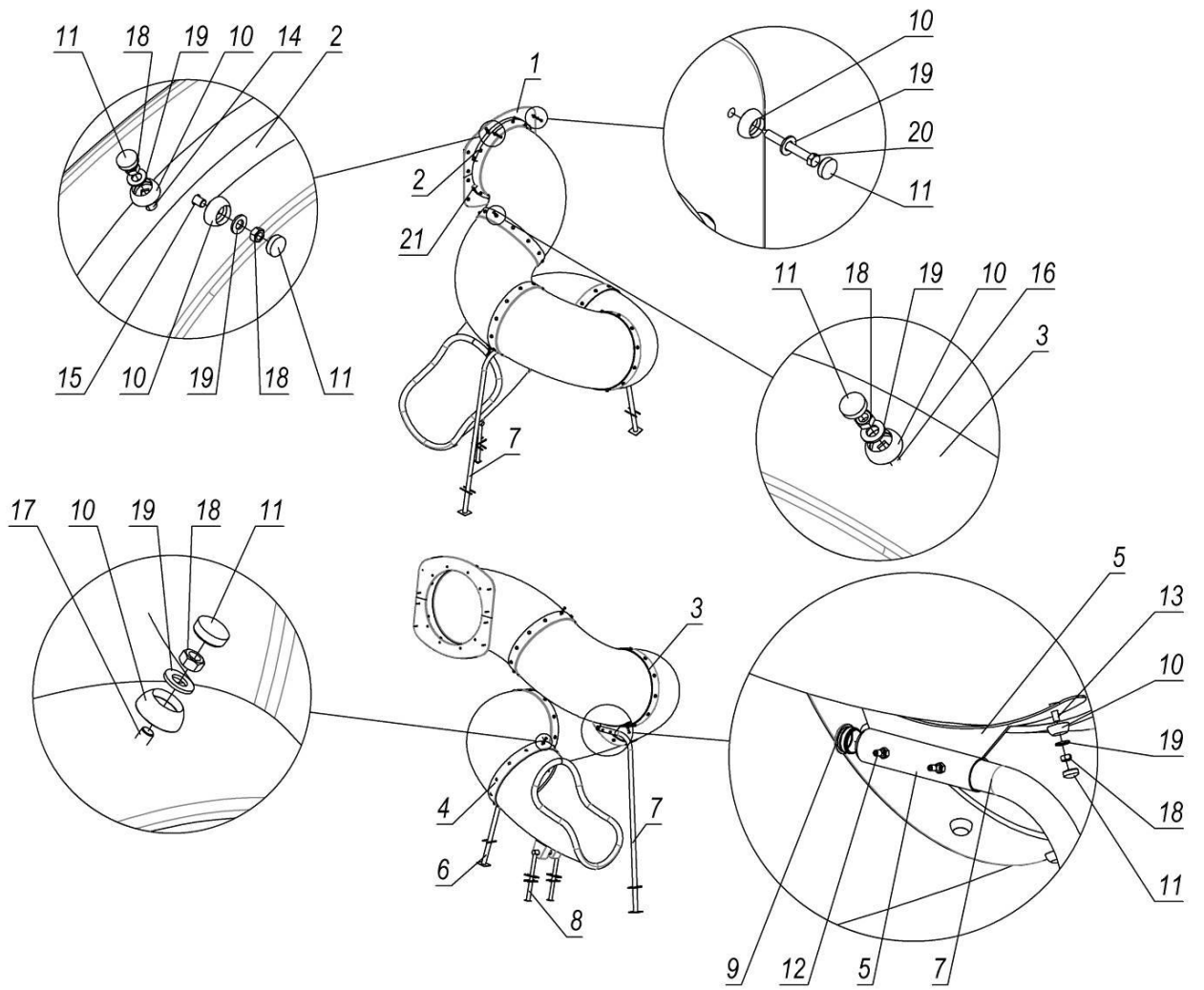
<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Pillar	32	1
2	Sidewall frame	8	1
3	Sidewall frame	8	1
4	Brace rod	1	1
5	Embedded element	5	1
6	Lining	2	1
7	Spiral slide	28	1
8	Cap M8		20
9	Cup M8		20
10	Bolt M8x30 GOST7798		2
11	Bolt M8x30 GOST7802		6
12	Nut M8 GOST5915		6
13	Cap nut M16 DIN1587		3
14	Washer 10 GOST11371		20
15	Washer 16 GOST6958		3
16	Washer 16 GOST6402		3
17	Screw 4.2x16 DIN 7504N	2	19
18	Screw 8x70 GOST11473		12

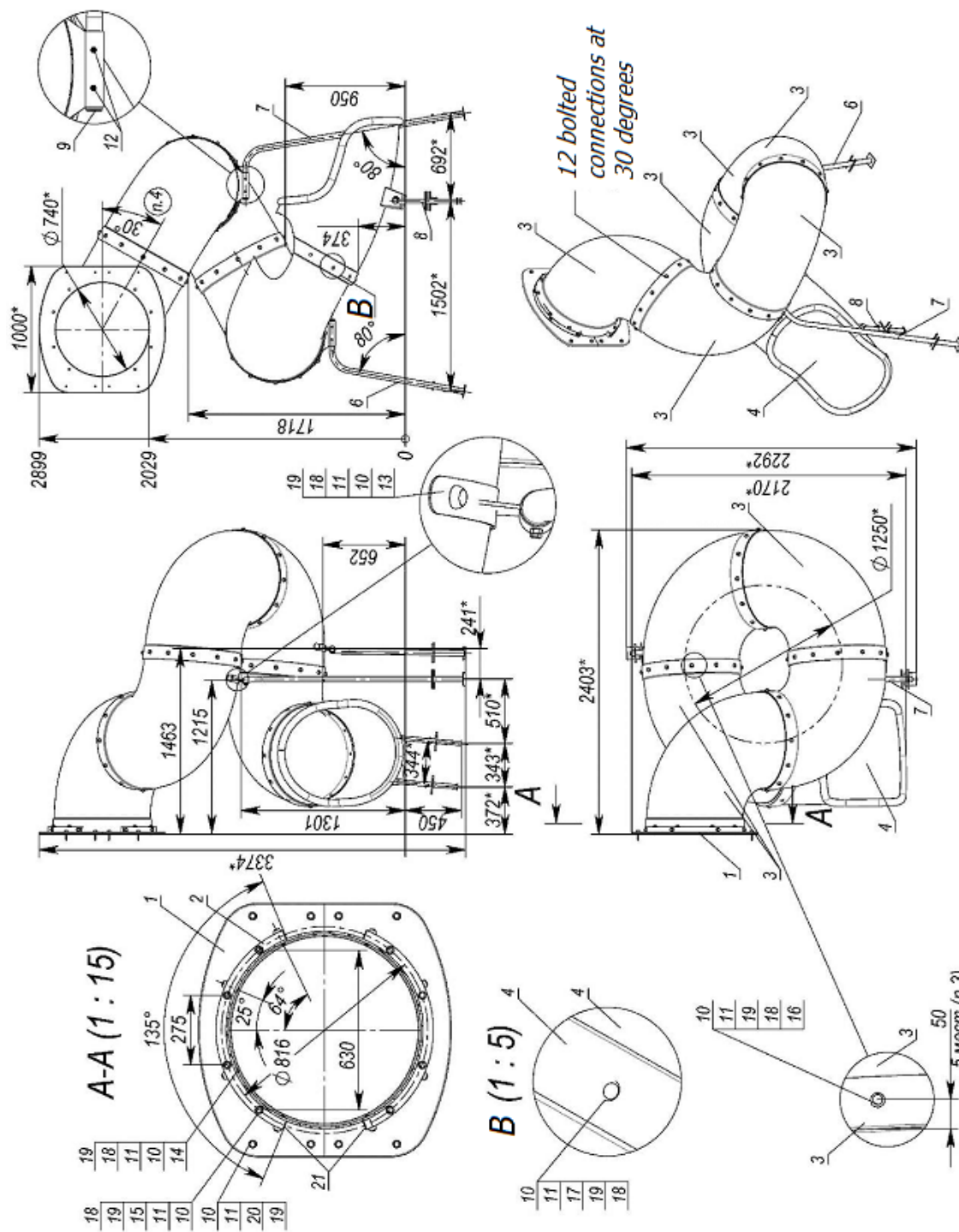
Picture 15 - Assembly scheme and completeness of spiral descent



<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Straight slide (2m)	73	1
2	Support for 2m slide	4	1
3	Angle bar		4
4	Fence	2	2
5	Cap M8		20
6	Cup M8		20
7	Bolt M8x35 GOST7802		4
8	Bolt M8x30 GOST7802		4
9	Bolt M8x65 GOST7798		2
10	Nut M8 GOST5915		10
11	Washer 10 GOST11371		20
12	Screw 8x50 GOST11473		6
13	Screw 8x100 GOST11473		2
14	Beam	2	1

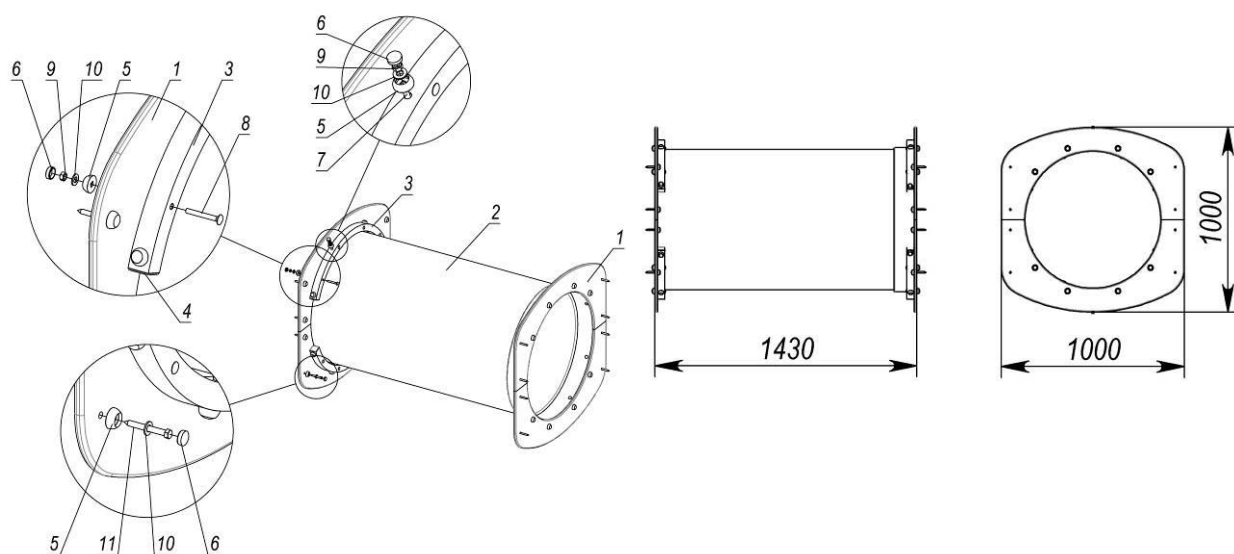
Picture 16 - Assembly scheme and completeness of the slide on the site height 2 m.



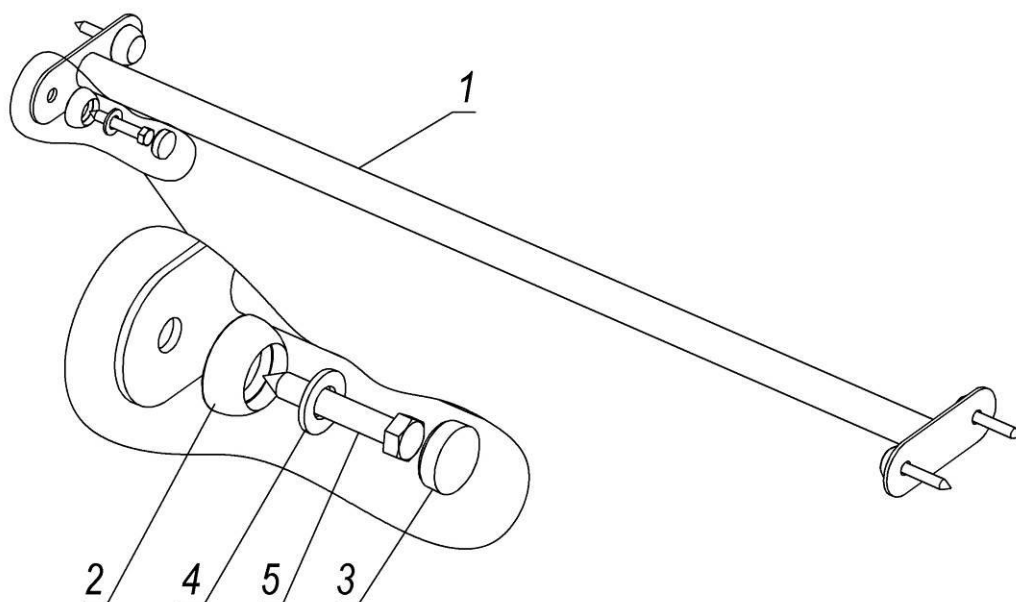


Pos.	Name	Weight, kg	Q-ty	Pos.	Name	Weight, kg	Q-ty
1	Entrance	3	2	12	Stud M8x10 GOST11074		4
2	Bent tube	2	2	13	Bolt M8x25 GOST7802		4
3	Tube turn 760	23	5	14	Bolt M8x60 GOST7802		8
4	Tube whistle 760	49	1	15	Bolt M8x65 GOST7802		8
5	Support	1	2	16	Bolt M8x30 GOST7802		48
6	Rack (for slide) small	4	1	17	Bolt M8x45 GOST7802		12
7	Rack (for slide)	6	1	18	Nut M8 GOST5915		80
8	Support	2	2	19	Washer 10 GOST11371		88
9	Plug ¼ (to DN32)		2	20	Screw 8x70 GOST11473		8
10	Cup M8		88	21	Plug 40x40		4
11	Cap M8		88				

Picture 17 - Scheme of assembly, completeness of the Ukrhimplast pipe slide to a site height of 2 m.

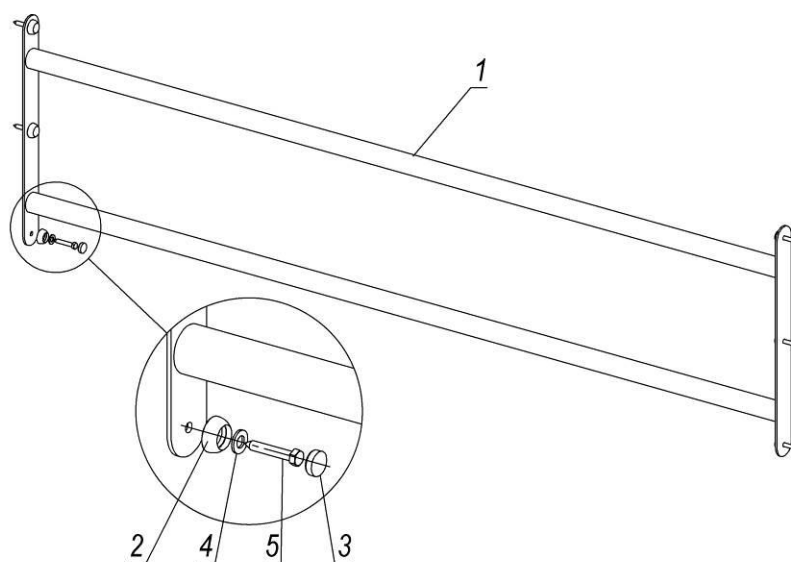


Pos.	Name	Weight, kg	Q-ty
1	Entrance	3	4
2	Straight tube 760	30	1
3	Bent tube	2	4
4	Plug 40x40		8
5	Cup M8		48
6	Cap M8		48
7	Bolt M8x60 GOST7802		16
8	Bolt M8x65 GOST7802		16
9	Nut M8 GOST5915		32
10	Washer 10 GOST11371		48
11	Screw 8x70 GOST11473		16



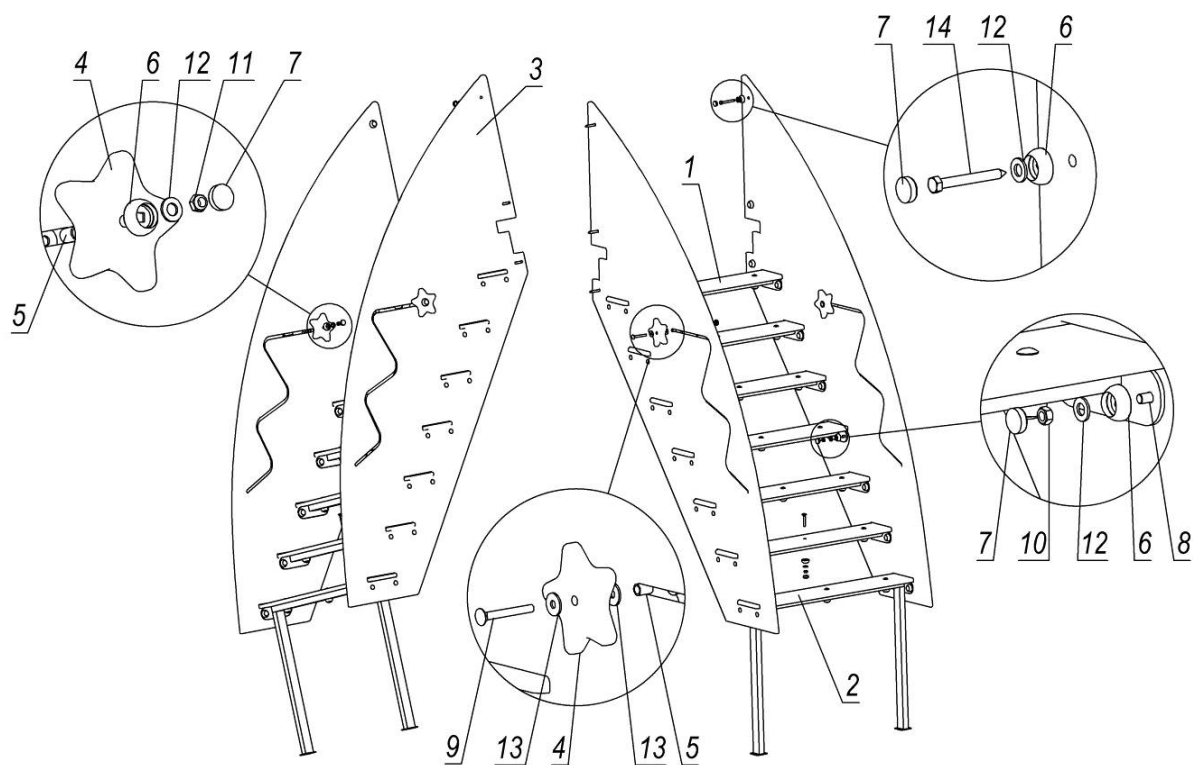
<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Brace rod 0.8 m		1
2	Cup M8		4
3	Cap M8		4
4	Washer 10 GOST11371		4
5	Screw 8x50 GOST11473		4

Picture 19 – Module of metal brace rod



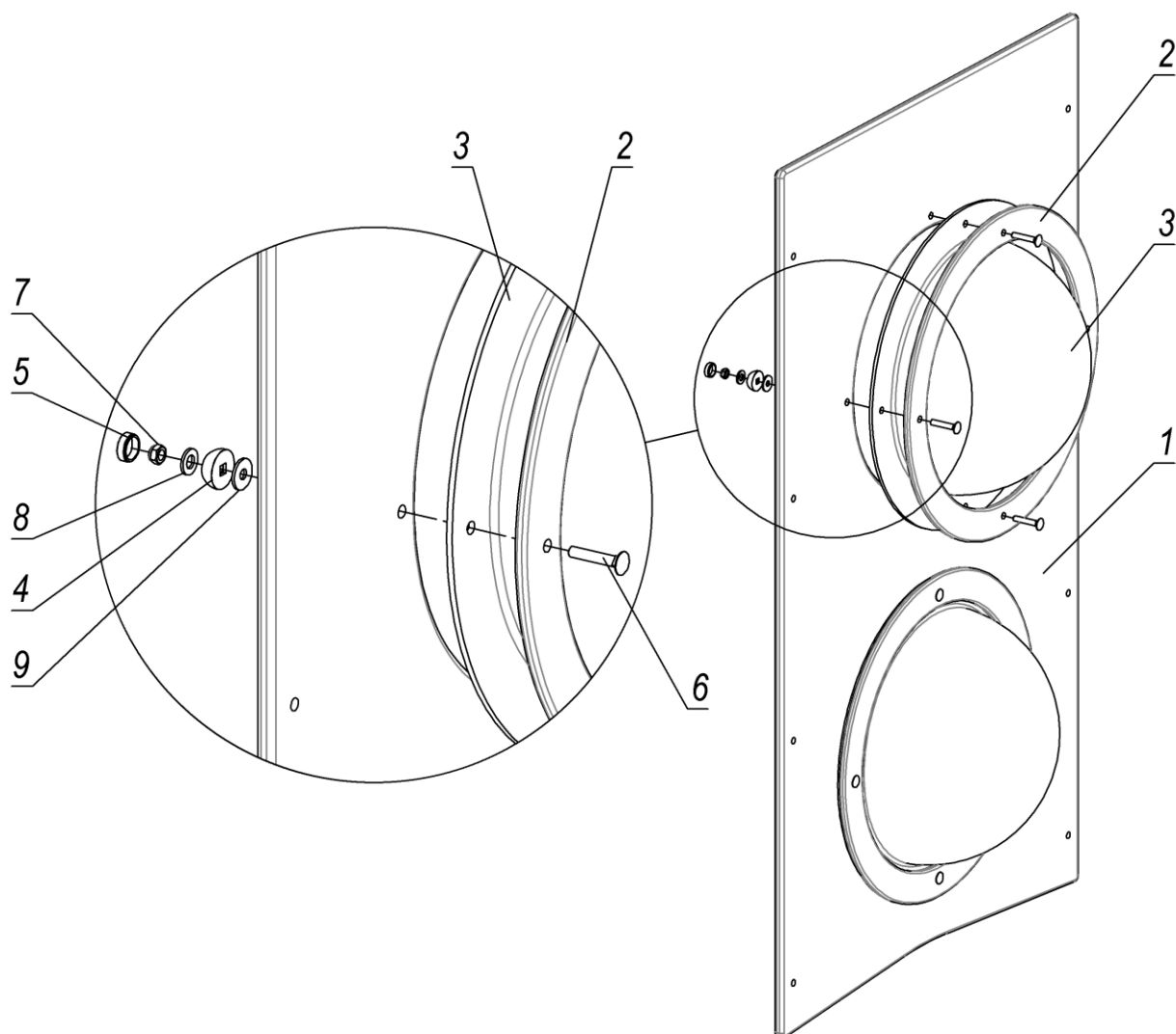
<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Straight railings	12	1
2	Cup M8		6
3	Cap M8		6
4	Washer 10 GOST11371		6
5	Screw 8x50 GOST11473		6

Picture 20 - Install straight railings above the straight bridges of the game complex.



Pos.	Name	Weight, kg	Q-ty
1	Step (stairs 1.5m)	3	6
2	Step (onto concrete)	6	1
3	Stairs sidewall	13	2
4	Cover plate "Star"		4
5	Bushing (L=16 mm)		2
6	Cup M8		36
7	Cap M8		36
8	Bolt M8x30 GOST7802		28
9	Bolt M8x65 GOST7802		2
10	Nut M8 GOST5915		28
11	Self-locking nut M8 DIN985		2
12	Washer 10 GOST11371		36
13	Washer 8 GOST6958		6
14	Screw 8x70 GOST11473		6

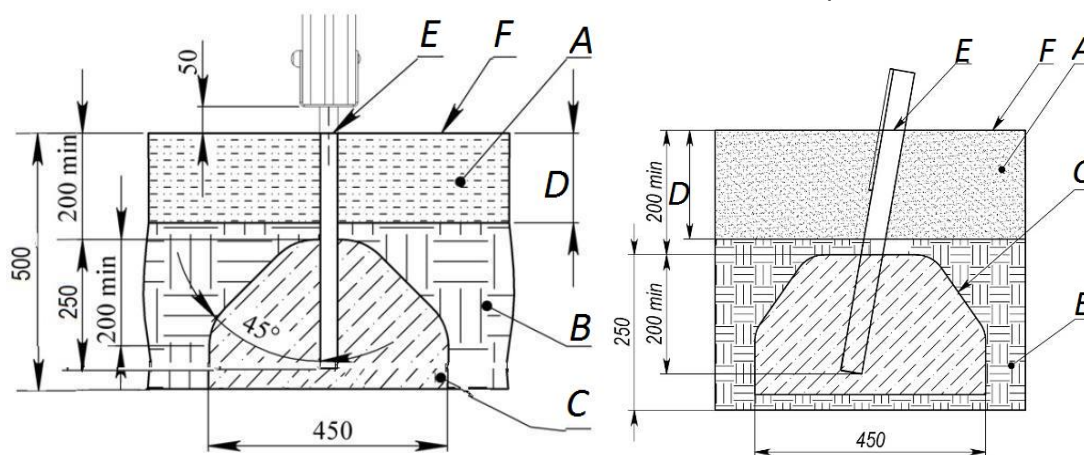
Picture 21 – Scheme of assembly and fastening of stairs to the tower with platform height of 1.5 m.



<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Panel "Rocket"	9	1
2	Cover plate porthole	5	2
3	Acrylic half-sphere (D380-500mm)	2	2
4	Cup M8		8
5	Cap M8		8
6	Bolt M8x45 GOST7802		8
7	Nut M8 DIN985		8
8	Washer 10 GOST11371		8
9	Washer 8 GOST6958		8

Picture 22 – Assembly scheme of panel «Rocket».

8) Install the product according to the level and concrete (concrete class not lower than B15), according to concreting schemes. In case of installation on sandy soil the dimensions of the foundation must be increased by 15-20%. During installation of the product in winter it is necessary to use concrete with plasticizers and additives to increase its frost resistance and waterproofness.



for beams and other game elements

for metal slides

A - shock-absorbing coating;

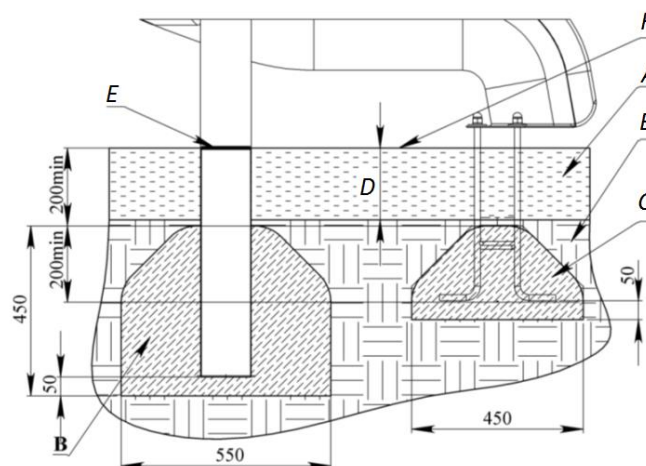
B - soil;

C - concrete;

D - depth of the shock absorbing coating;

E - product level plane;

F - game surface.



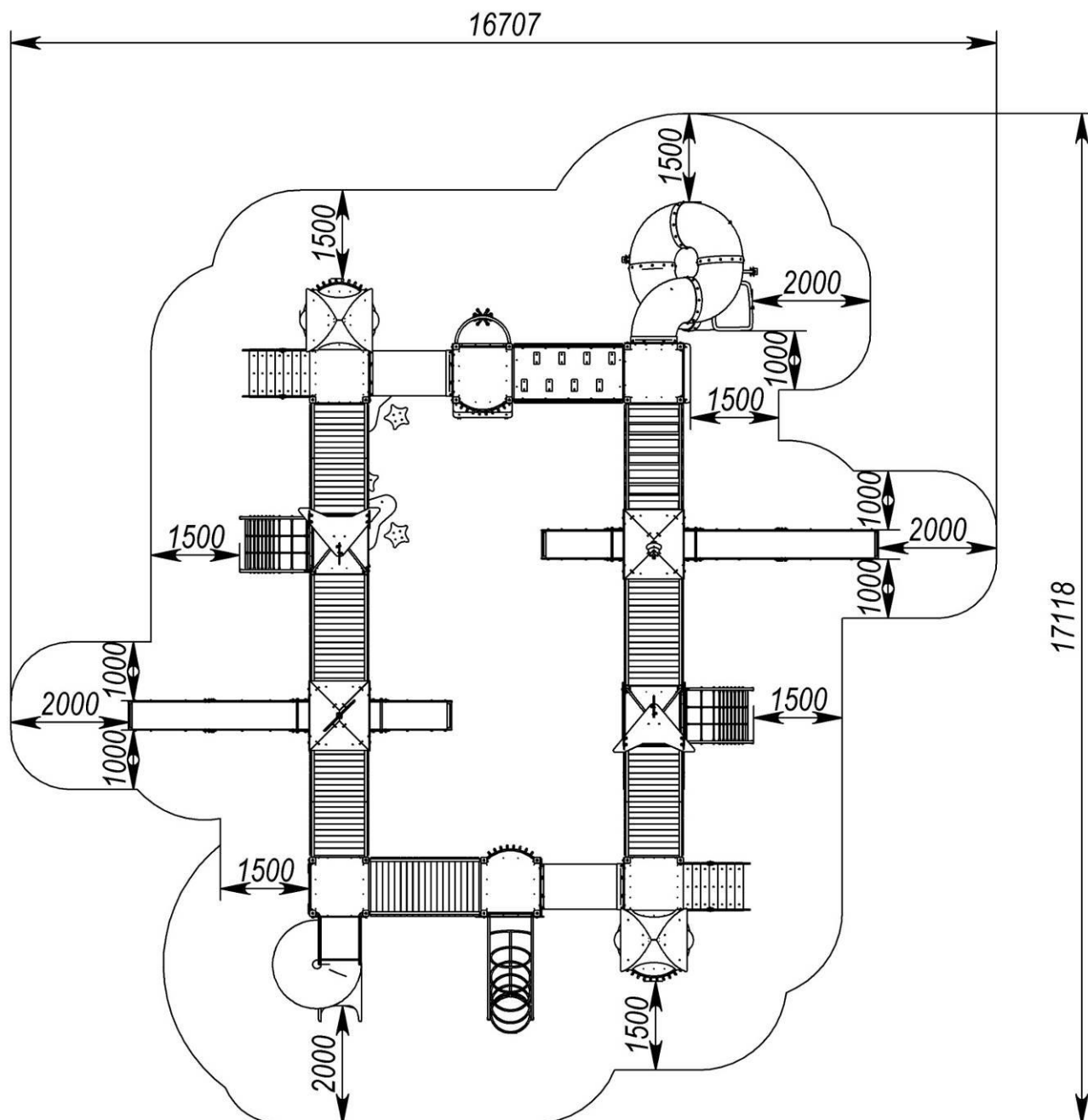
For spiral descent

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
		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 material	HIC tested according to EN 1177	According to the test	According to the test

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 23



Picture 25 – Assembly scheme of safety zone

