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PRODUCTION AND SALE OF SPORTS GOODS
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DATA SHEET

Playground complex "Space (Mini)" T921.1

CONTENT

FOR NOTES

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. 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.

1) Mark the area as indicated on the layout of the playground foundations.
2) Excavate recesses to install embedded parts and attachment elements. Level the depth of the recesses by deepening them or sprinkling crushed stone.
3) Assemble and install the equipment in accordance with the assembly schemes – chapter 7.
4) Concrete the embedded parts and supporting structures of the attachment elements. During installation the product on sandy soil the overall dimensions of the recesses should be increased by 15-20%.
5) Arrange the impact-absorbing coating area.

3. 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.

4. 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.

5. 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	Signa-ture
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.

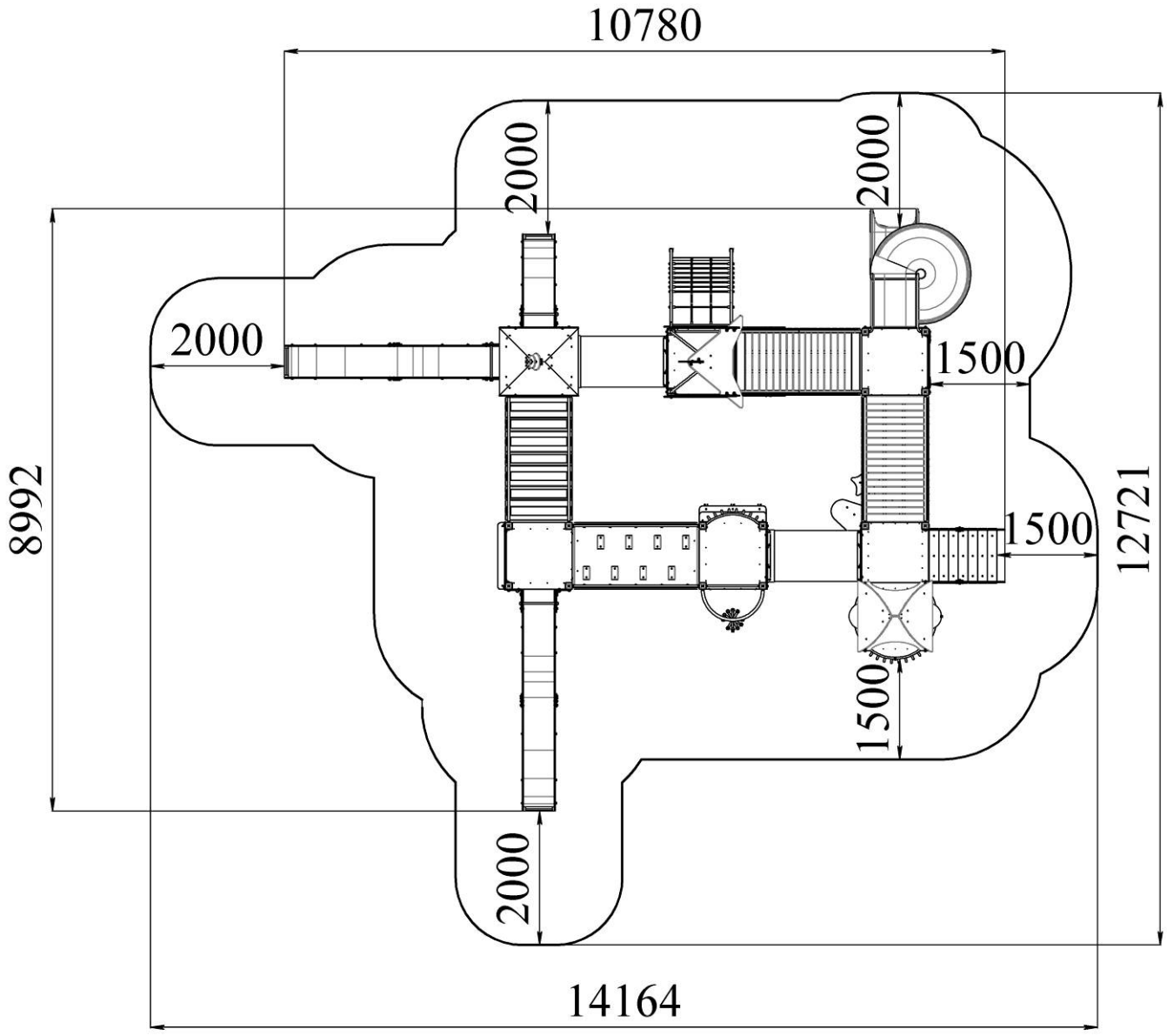
Storage information

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

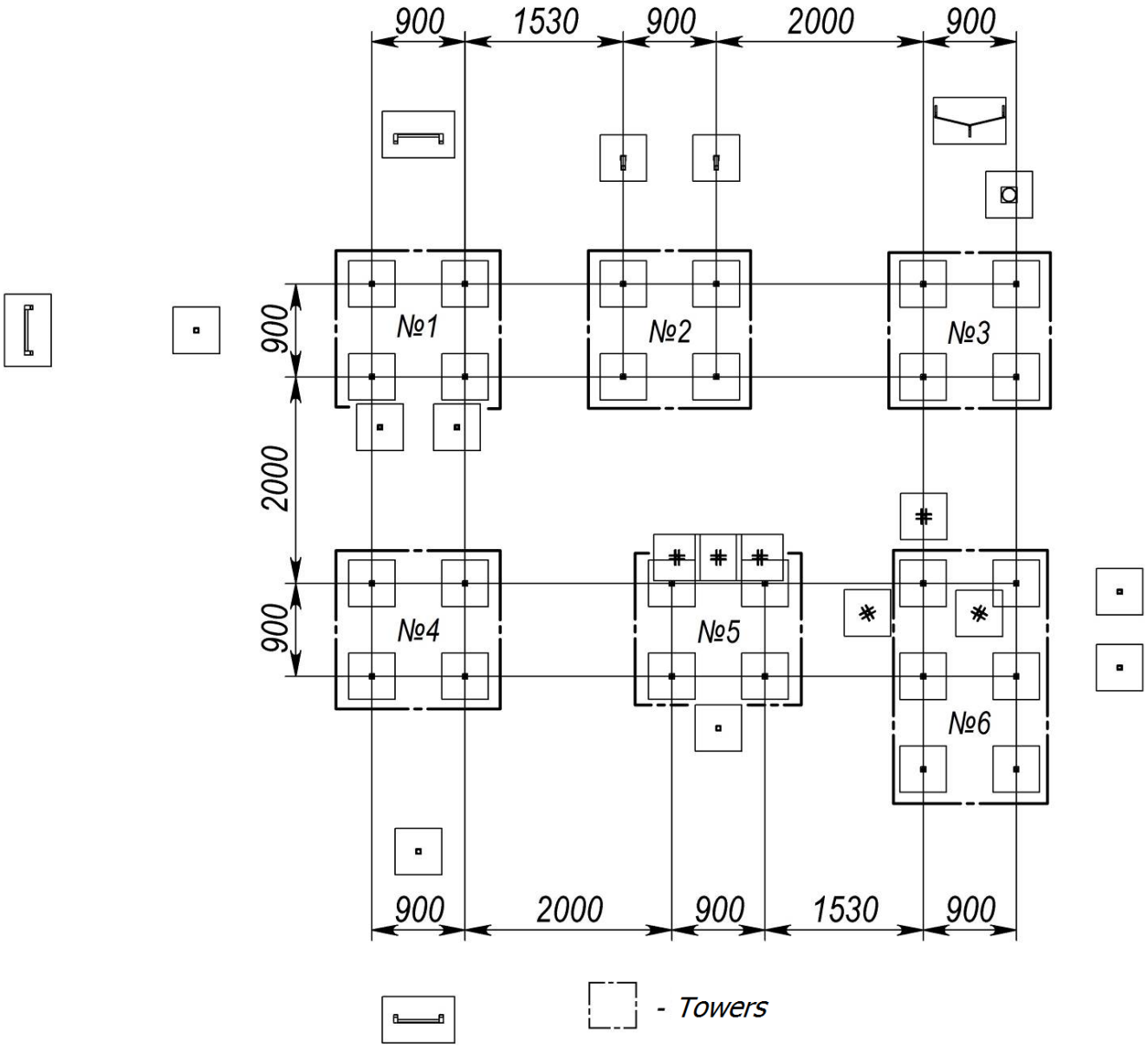
After the end of the equipment's service life, the buyer independently determines the procedure for its use. If you decide to recycle, contact the seller or specialized organizations.
The equipment does not contain harmful impurities and materials that can harm your health and is not subject to special recycling.

6. TECHNICAL CHARACTERISTICS AND ASSEMBLY SCHEMES

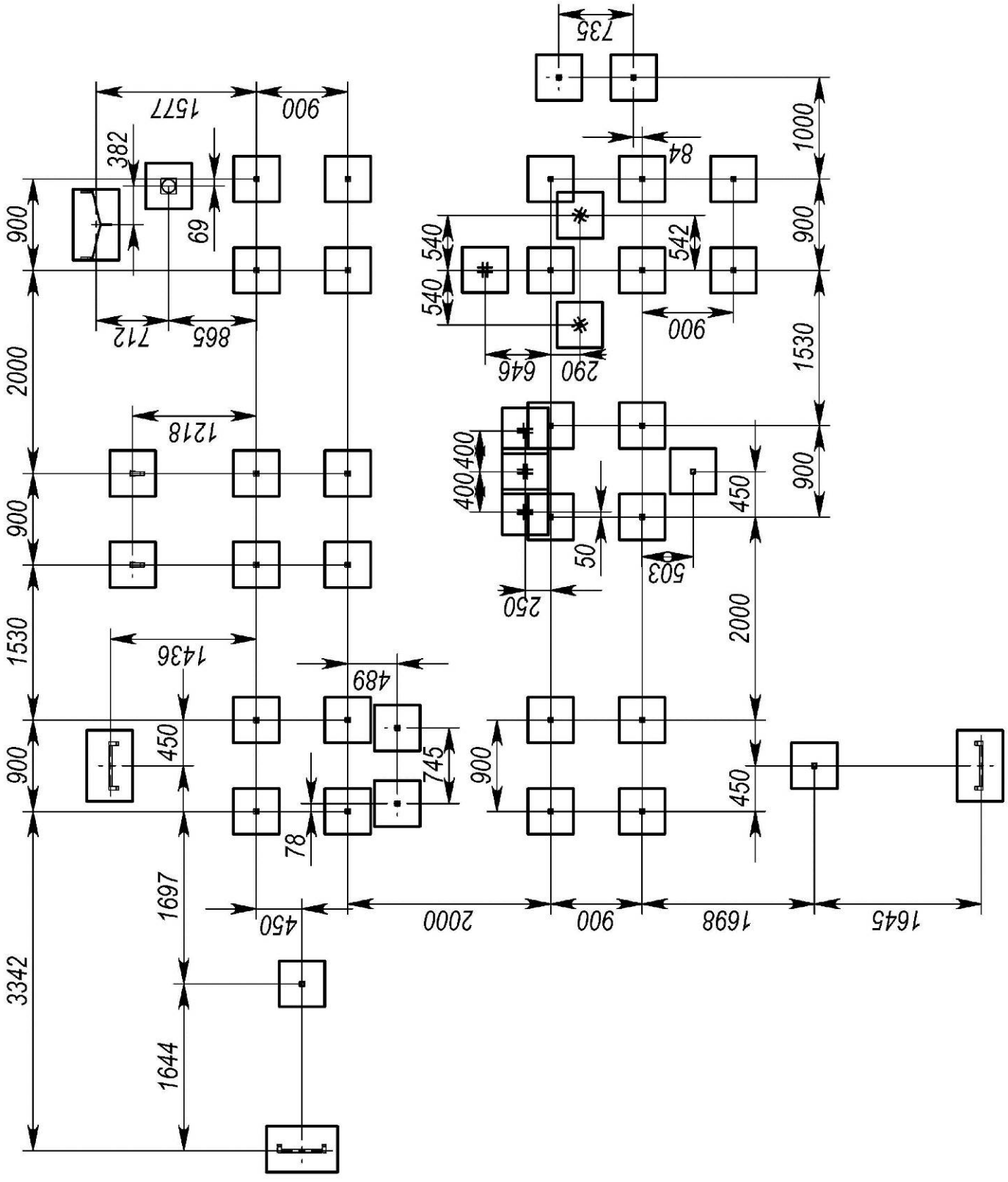
Length, mm	**10780**
Width, mm	**8992**
Height, mm	**4470**
Weight, kg	**1849**
Free height of fall, mm	**2029**
Age restrictions, years	**from 7 to 12**
Weight restrictions, kg	**Up to 60**



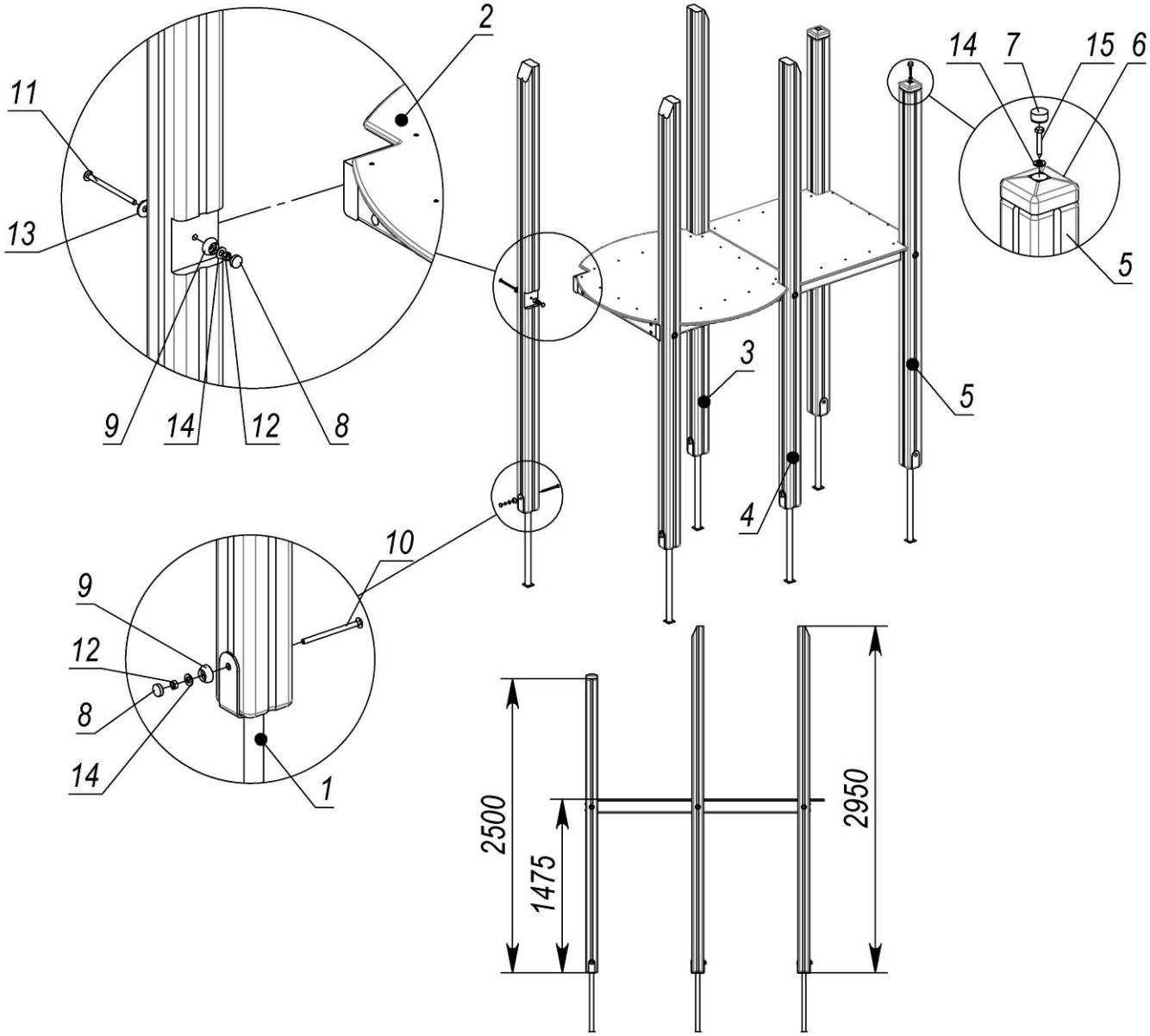
Picture 1 – Installation area and safety zone



Picure 2 – Towers layout

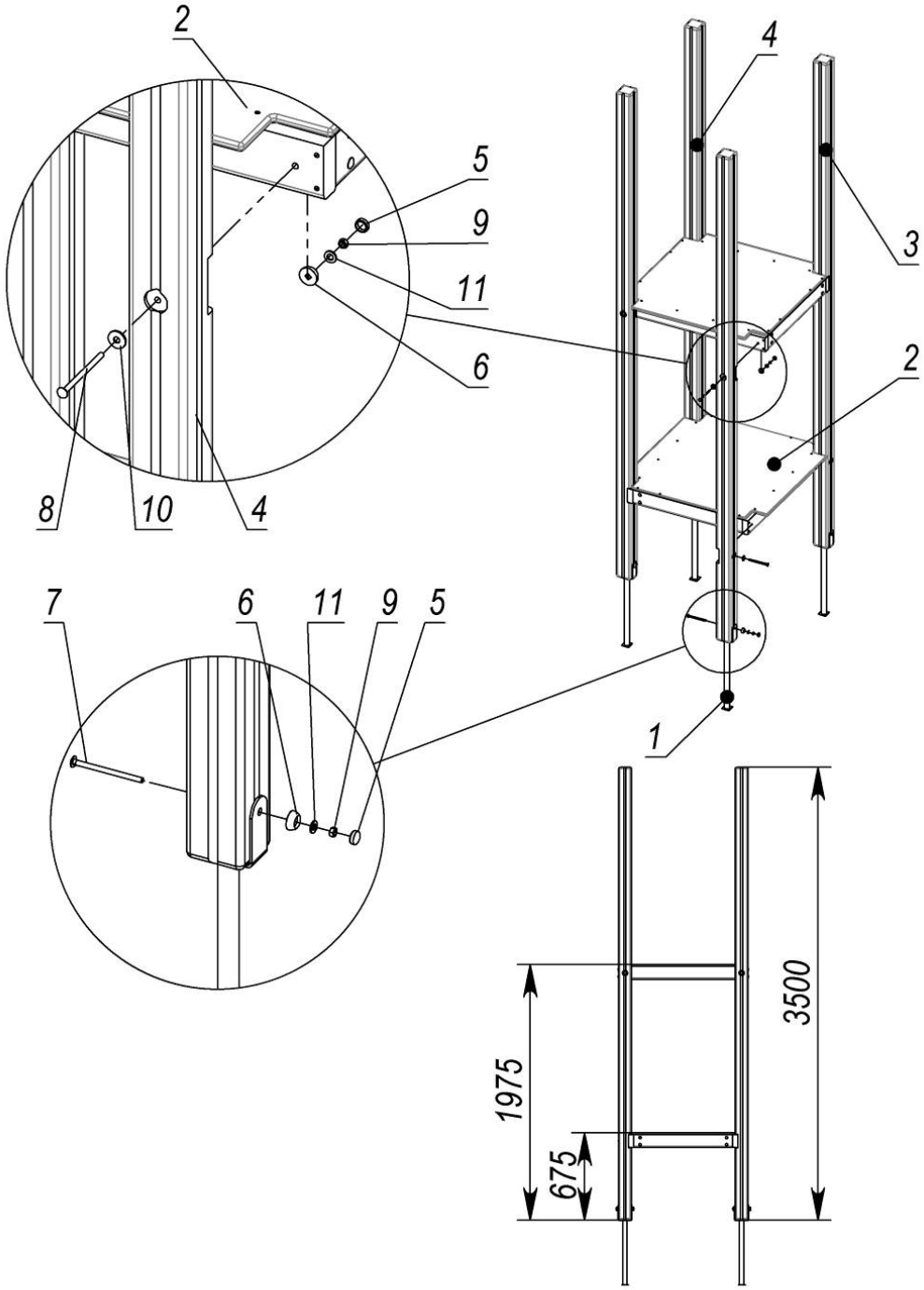


Picture 3 – Layout of foundations



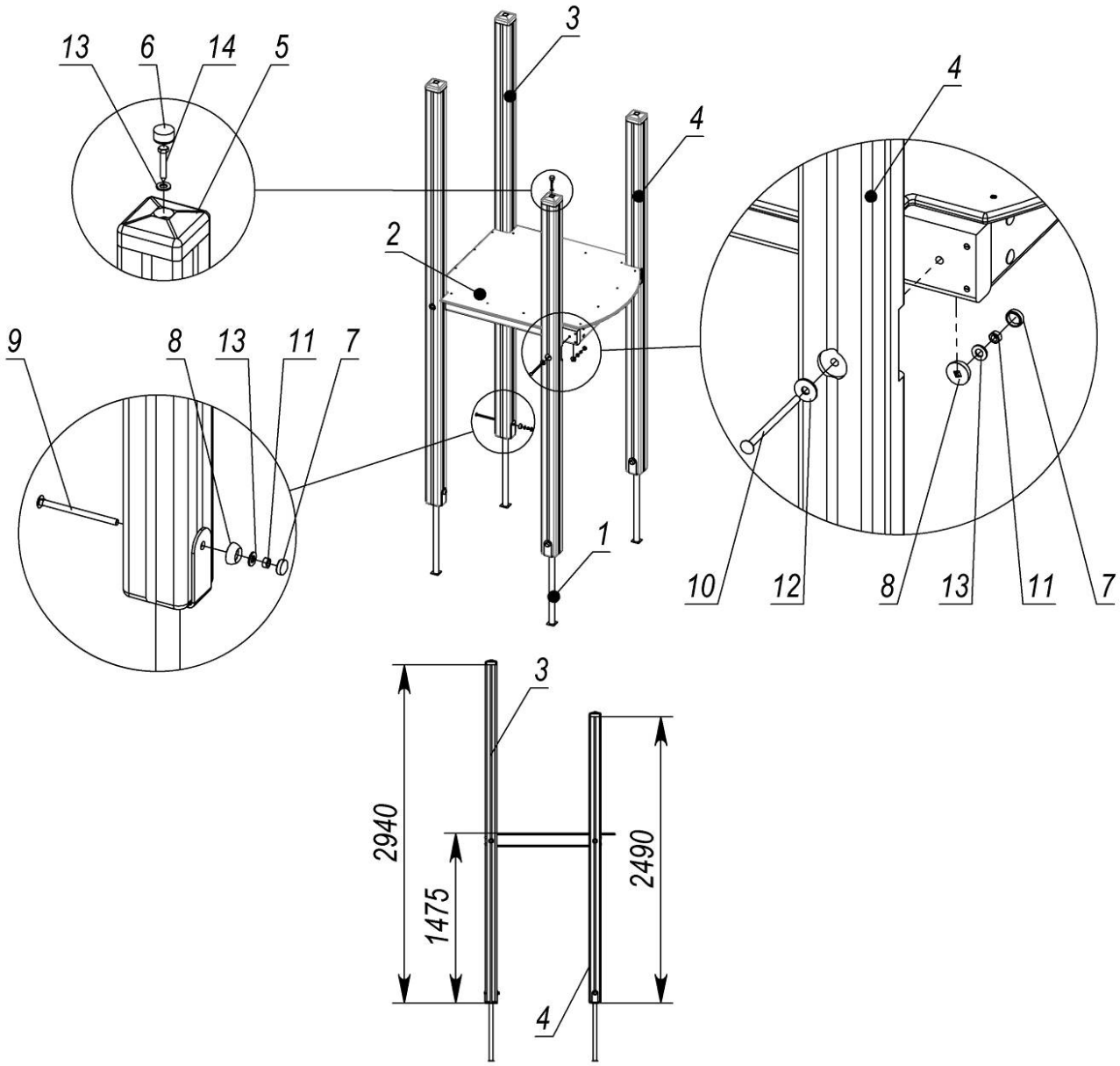
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	6
2	Double site (1.9x1m)	37	1
3	Beam 2.95 m (with cut)	17	2
4	Beam 2.95 m (with cut)	17	2
5	Beam	15	2
6	Cap on bar		2
7	Cap on bar		2
8	Cap M8		12
9	Cup M8		12
10	Bolt M8x120 GOST7802		6
11	Bolt M8x130 GOST7802		6
12	Nut M8 GOST5915		12
13	Washer 10 GOST6958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

Picture 4 – Complete set and assembly scheme of the double tower (1.9x1m) . Marked under №6 in Picture 2



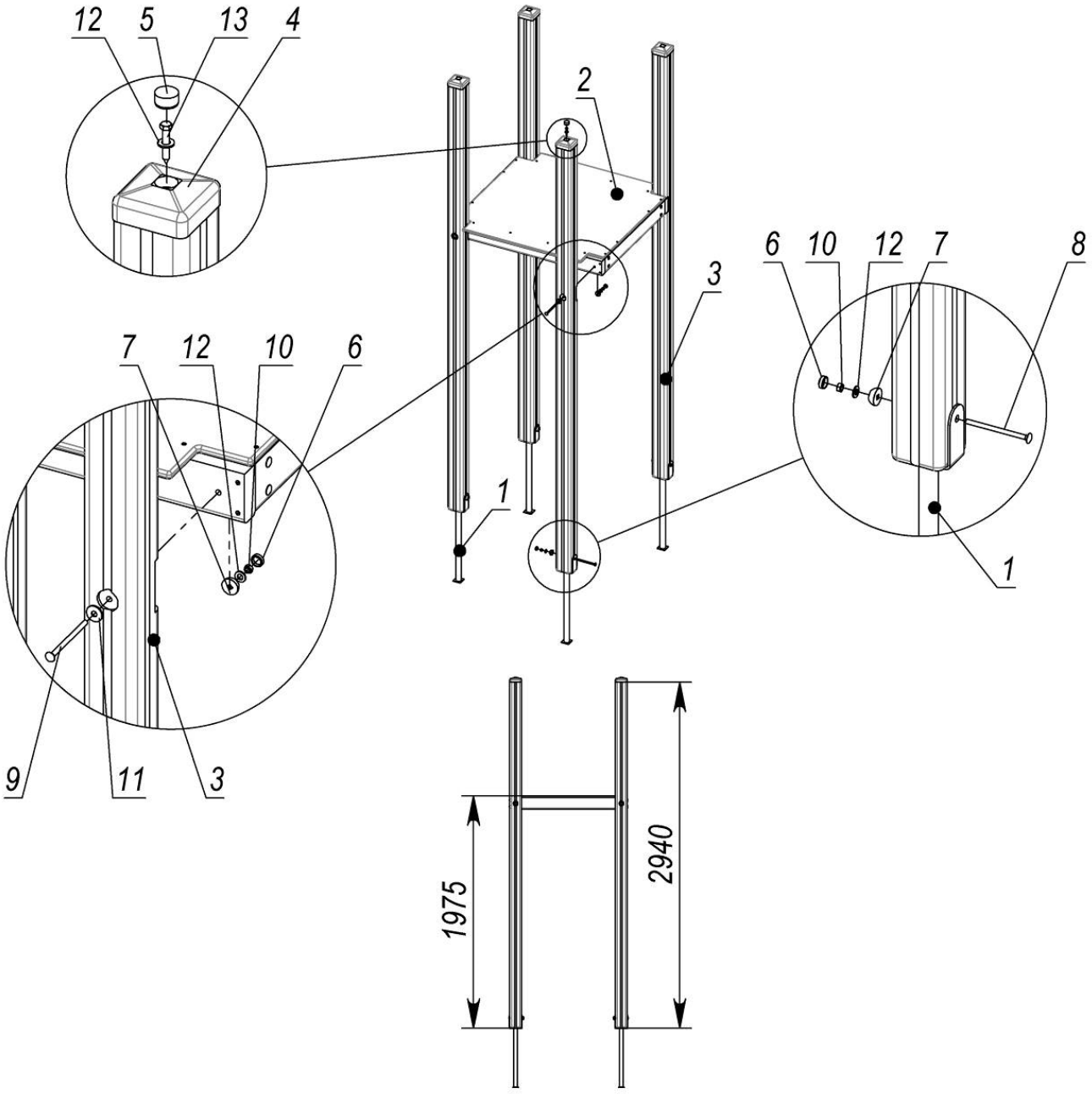
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	2
3	Beam 3.5 m	11	2
4	Beam 3.5 m	20	2
5	Cap M8		12
6	Cup M8		12
7	Bolt M8x120 GOST7802		4
8	Bolt M8x130 GOST7802		8
9	Nut M8 GOST5915		12
10	Washer 10 GOST6958		8
11	Washer 10 GOST11371		12

Picture 5 – Complete set and assembly scheme of the tower 0.7x2m (bar 3.5m) Marked under №1 in Picture 2



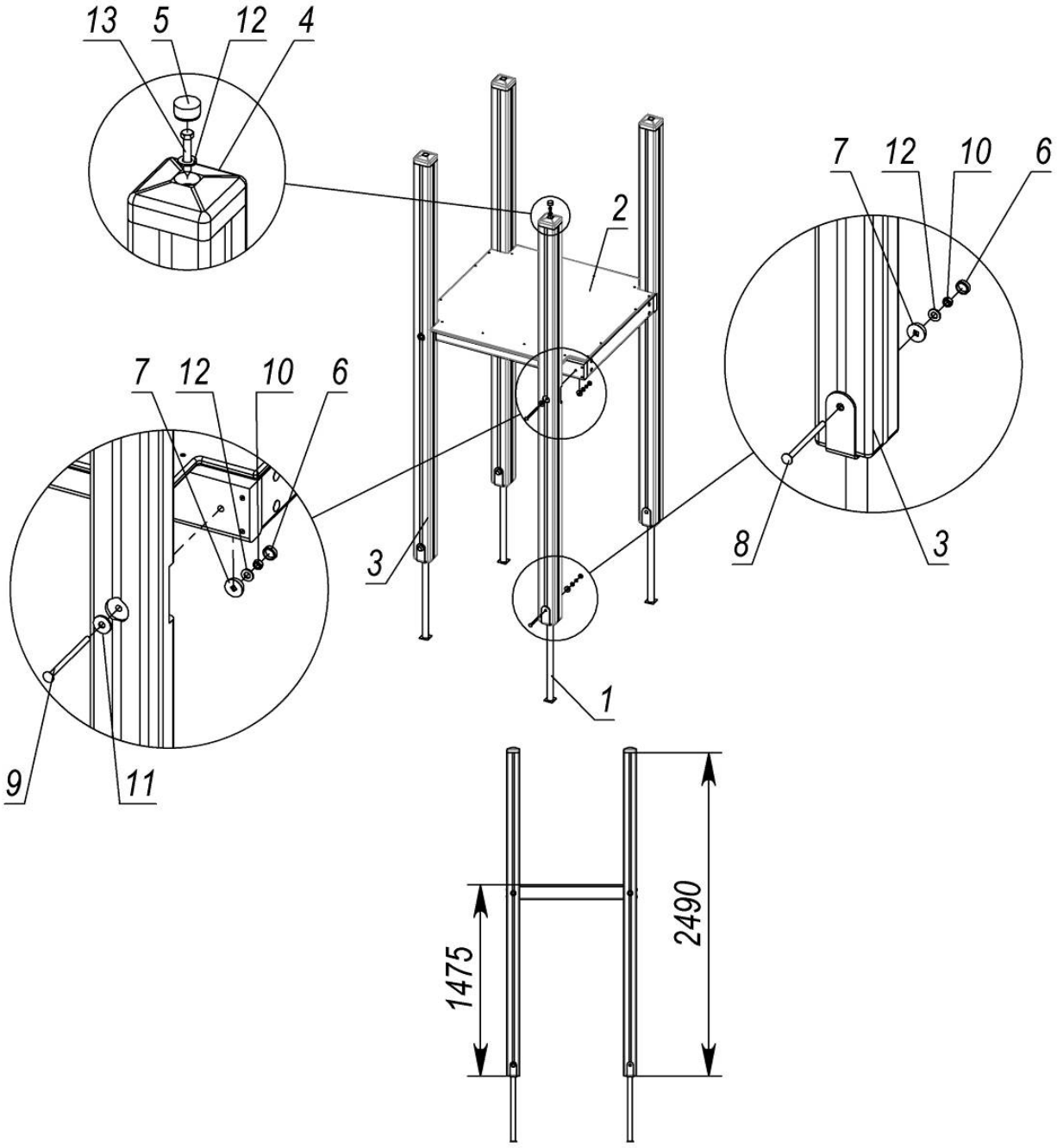
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	1
3	Beam 2.95 m	17	2
4	Beam	15	2
5	Cap on bar		4
6	Cap on bar		4
7	Cap M8		8
8	Cup M8		8
9	Bolt M8x120 GOST7802		4
10	Bolt M8x130 GOST7802		4
11	Nut M8 GOST5915		8
12	Washer 10 GOST6958		4
13	Washer 10 GOST11371		12
14	Screw 8x50 GOST11473		4

Picture 6 – Complete set and assembly scheme of the tower 1,5m (beam 2,5-2,95). Marked under №5 on picture 2



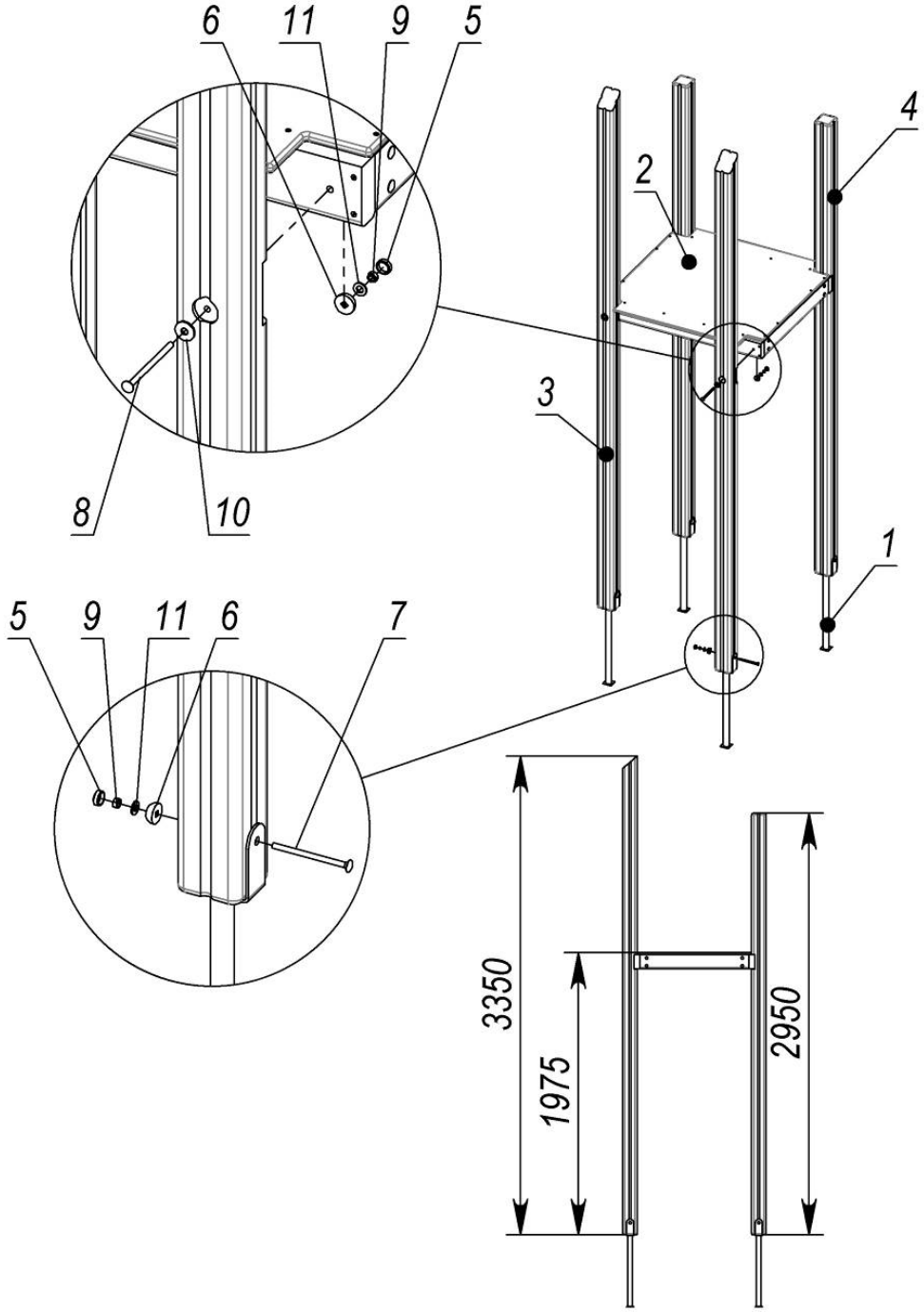
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	1
3	Beam 2.95 m	17	4
4	Cap on bar		4
5	Cap on bar		4
6	Cap M8		8
7	Cup M8		8
8	Bolt M8x120 GOST7802		4
9	Bolt M8x130 GOST7802		4
10	Nut M8 GOST5915		8
11	Washer 10 GOST6958		4
12	Washer 10 GOST11371		12
13	Screw 8x50 GOST11473		4

Picture 7 – Complete set and assembly scheme of the tower 2m 1x1.
Marked under №4 on picture 2



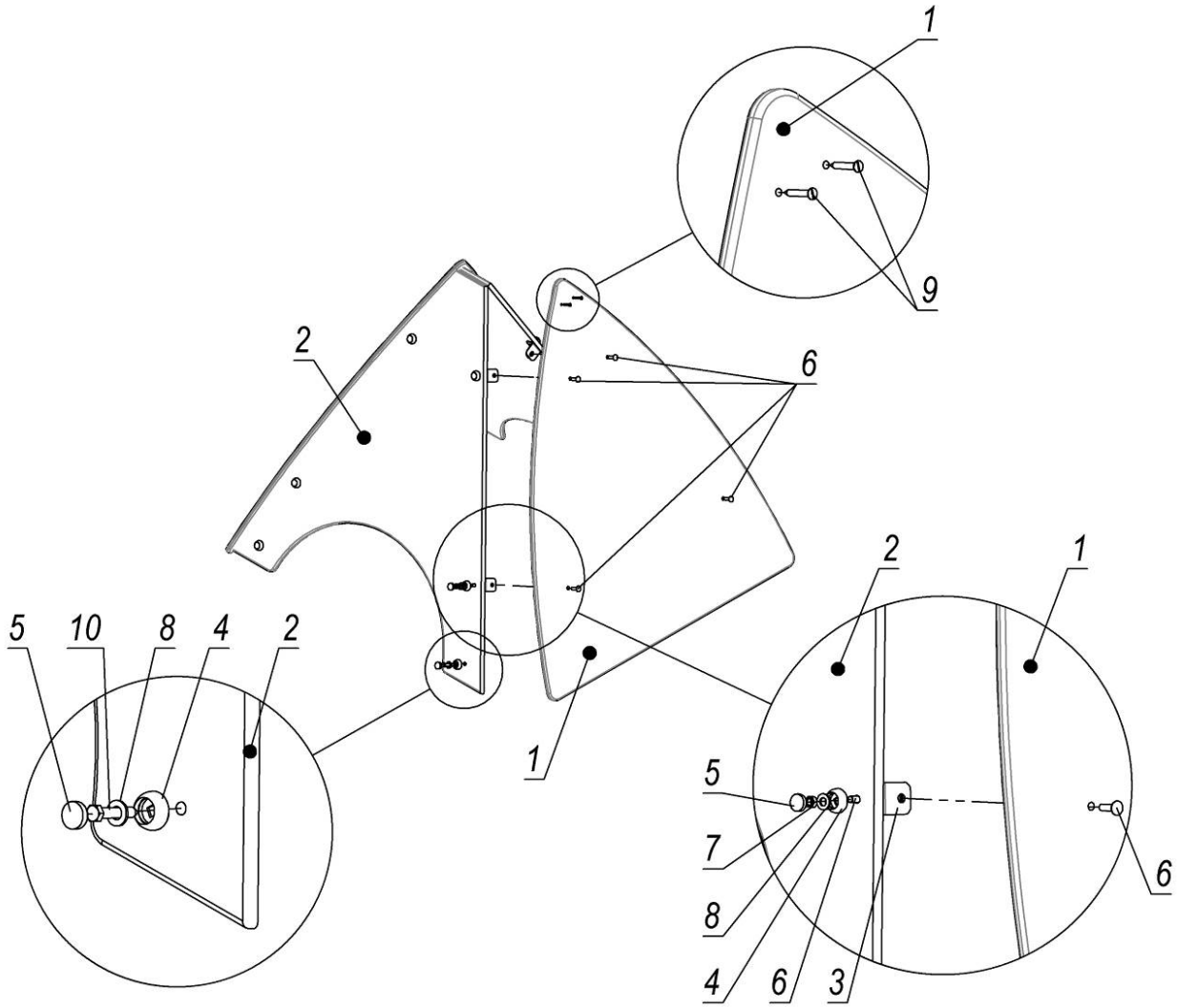
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	1
3	Beam	15	4
4	Cap on bar		4
5	Cap on bar		4
6	Cap M8		8
7	Cup M8		8
8	Bolt M8x120 GOST7802		4
9	Bolt M8x130 GOST7802		4
10	Nut M8 GOST5915		8
11	Washer 10 GOST6958		4
12	Washer 10 GOST11371		12
13	Screw 8x50 GOST11473		4

Picture 8 – Complete set and assembly scheme of the tower 1,5m. Marked under №3 on picture 2



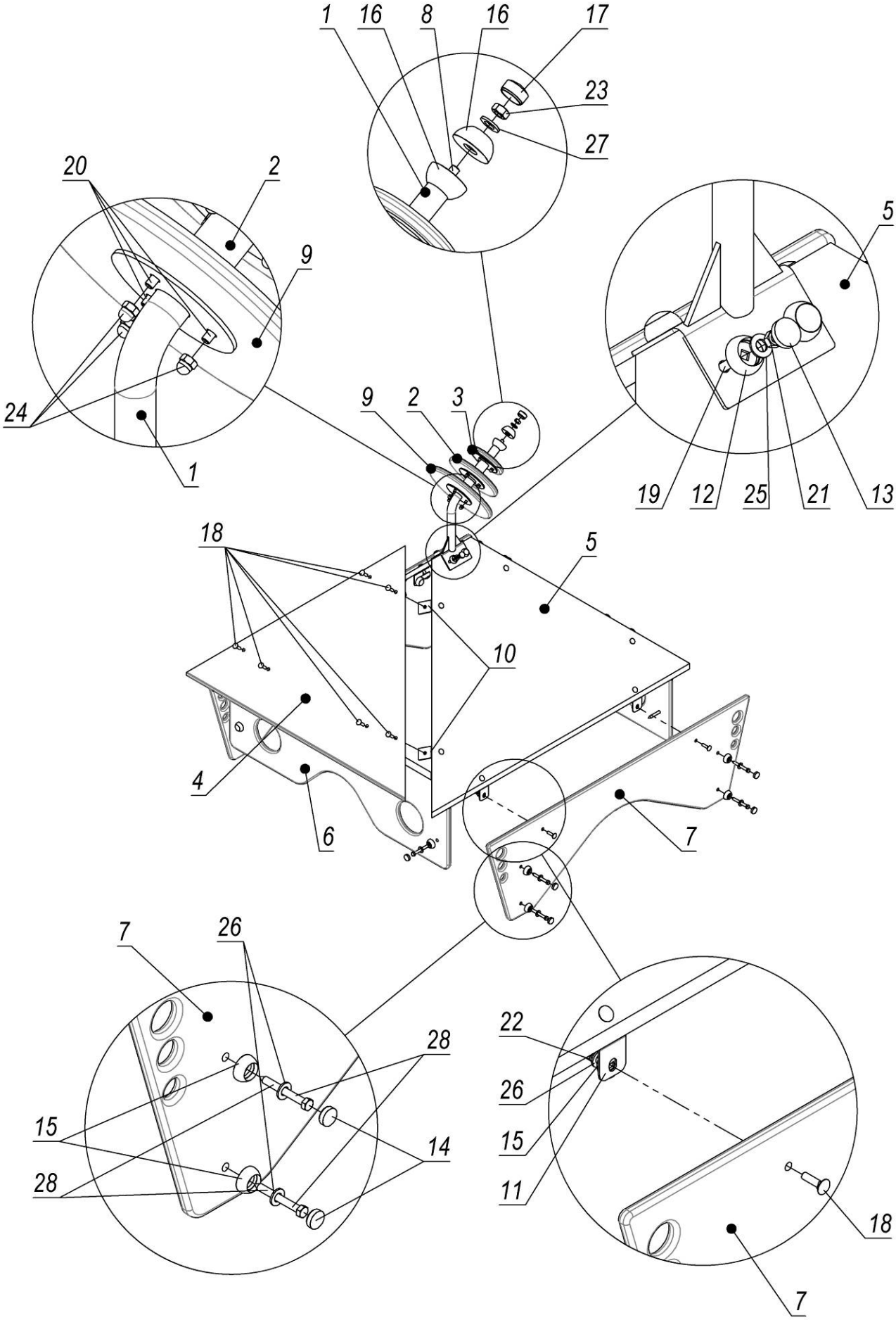
Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	4
2	Site	19	1
3	Beam 3.35 m (cut)	19	2
4	Beam 2.95 m	17	2
5	Cap M8		8
6	Cup M8		8
7	Bolt M8x120 GOST7802		4
8	Bolt M8x130 GOST7802		4
9	Nut M8 GOST5915		8
10	Washer 10 GOST6958		4
11	Washer 10 GOST11371		8

Picture 9 – Complete set and assembly scheme of the tower 2m (beam 3,35-3,1m). Marked under №2 on picture 2



Pos.	Name	Weight, kg	Q-ty
1	Slope	9	2
2	Pediment	6	2
3	Plate		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 of roof «Rocket»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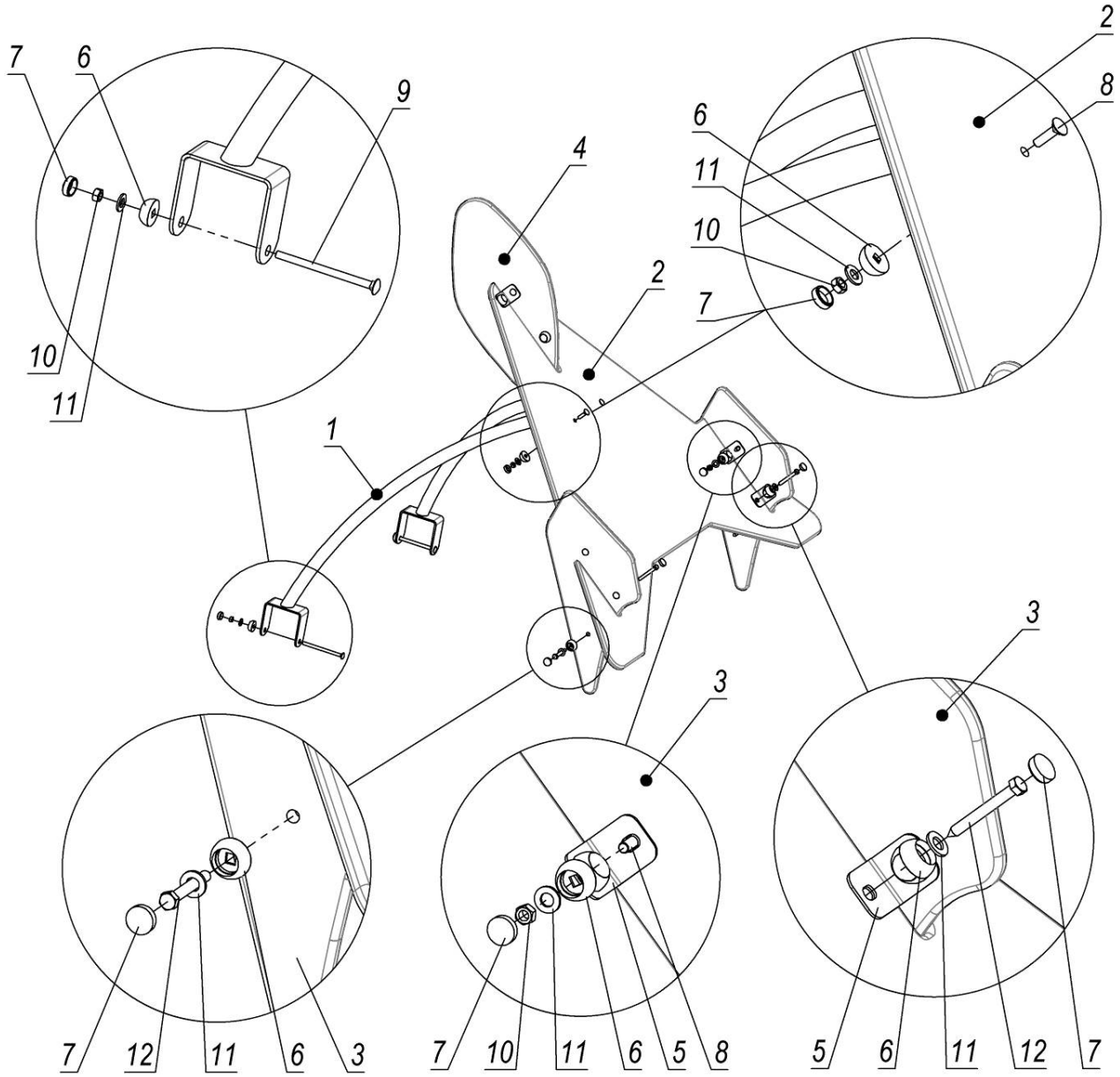
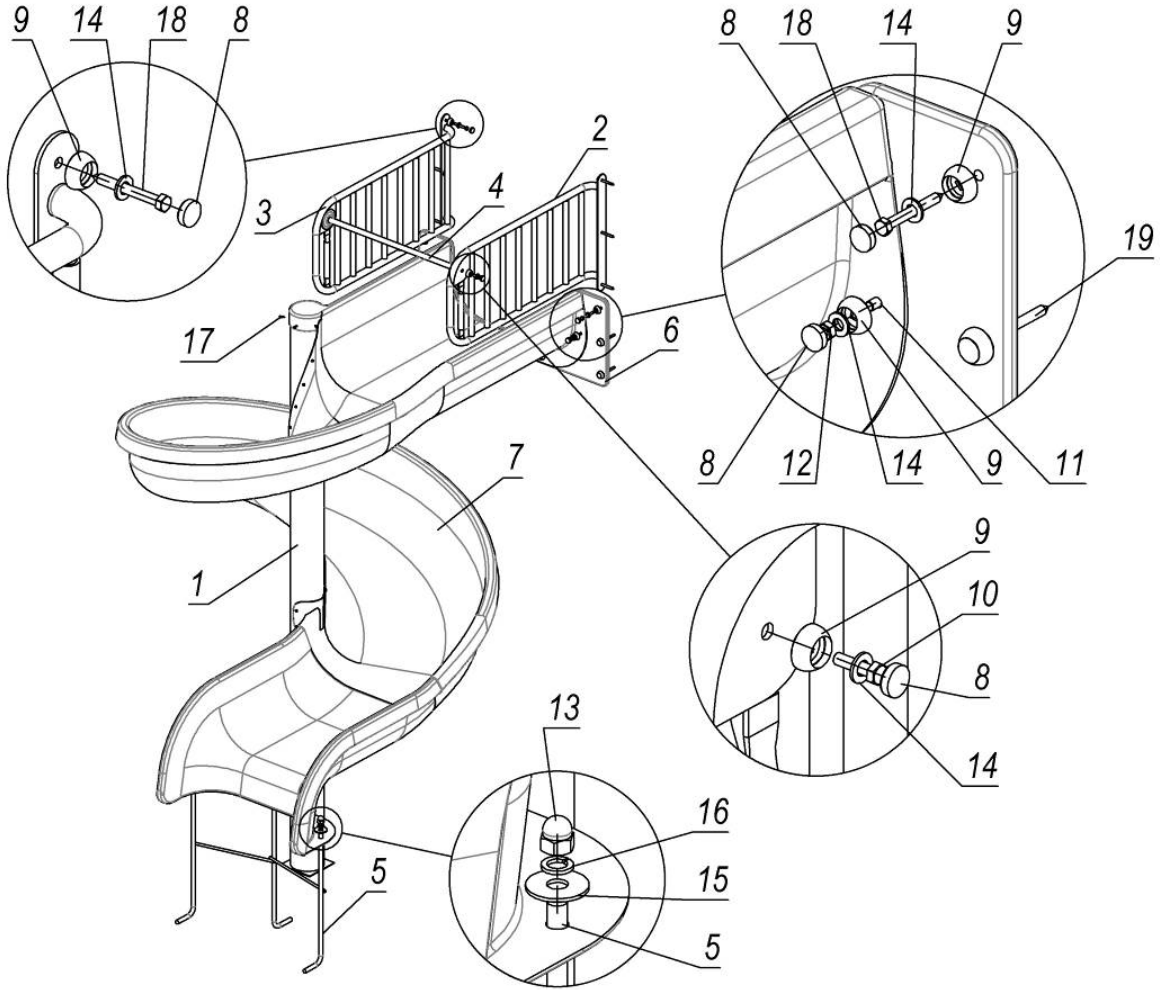
Pos.	Name	Weight, kg	Q-ty
1	Satellite antenna	1	1
2	Reflector		1
3	Reflector small		1
4	Slope 1m	4	2
5	Slope	5	2
6	Pediment (1m)	3	2
7	Pediment (1.2m)	3	2
8	Adaptor		1
9	Plate		1
10	Plate		8
11	Plate		8
12	Cup M6		4
13	Cap M8		4
14	Cap M8		44
15	Cup M8		44
16	Cup M10, M12		2
17	Cap M10, M12		1
18	Bolt M8x30 GOST7802		32
19	Bolt M6x30 GOST7802		4
20	Bolt M6x25 GOST7802		3
21	Nut M6 GOST 5915		4
22	Nut M8 GOST5915		32
23	Nut M10 GOST5915		1
24	Cap nut M6 DIN1587		3
25	Washer 8 GOST11371		4
26	Washer 10 GOST11371		44
27	Washer 12 GOST11371		1
28	Screw 8x70 GOST11473		12

Picture 11 – Assembly scheme of roof «Space – 2»



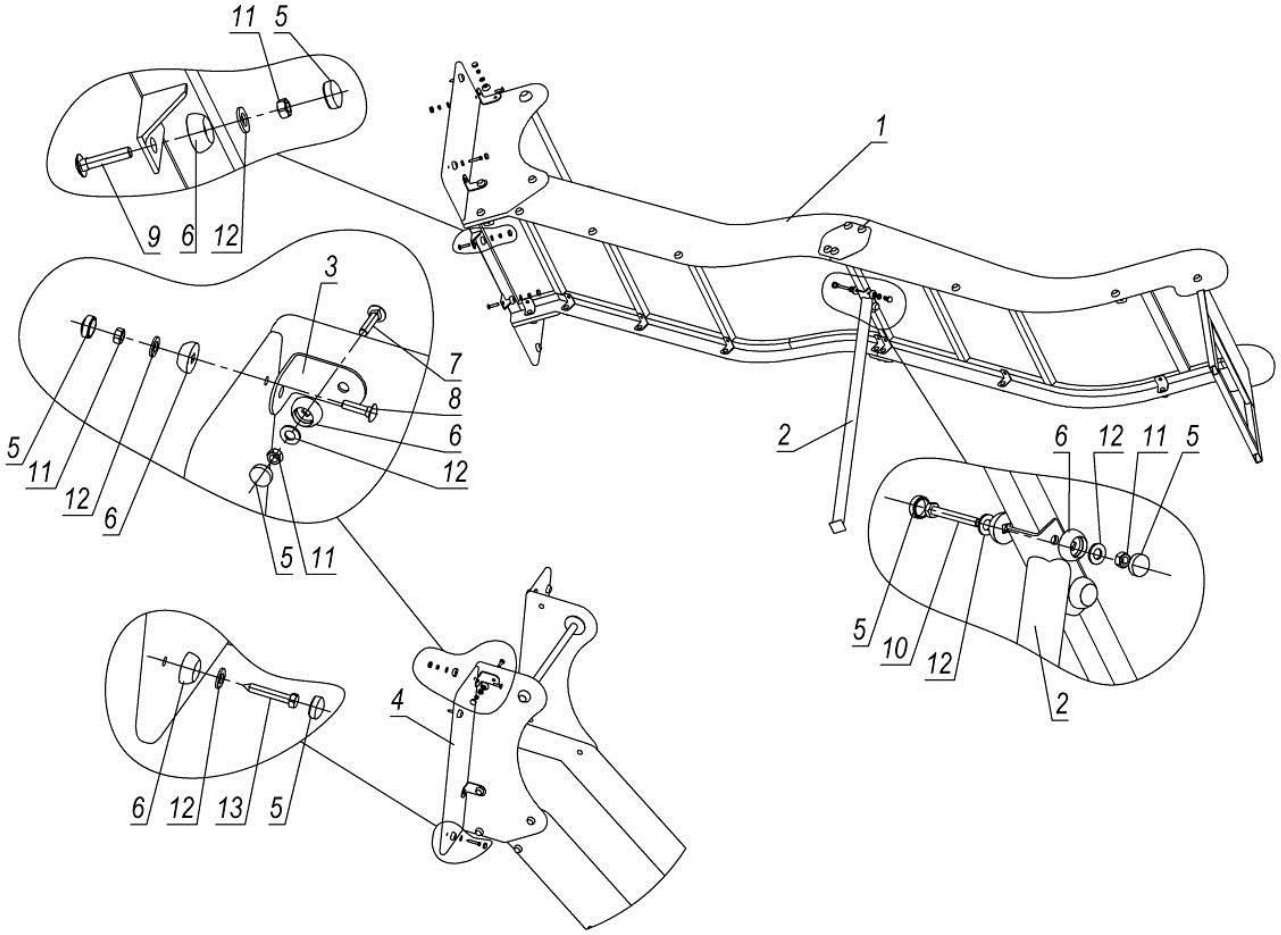
Pos.	Name	Weight, kg	Q-ty
1	Roof support	6	1
2	Platform	8	1
3	Booster		2
4	Bow element	1	1
5	Small angle bar		6
6	Cup M8		18
7	Cap M8		18
8	Bolt M8x30 GOST7802		12
9	Bolt M8x120 GOST7802		2
10	Nut M8 GOST5915		14
11	Washer 10 GOST11371		18
12	Screw 8x70 GOST11473		4

Picture 12 – Roof assembly scheme «Space shuttle»



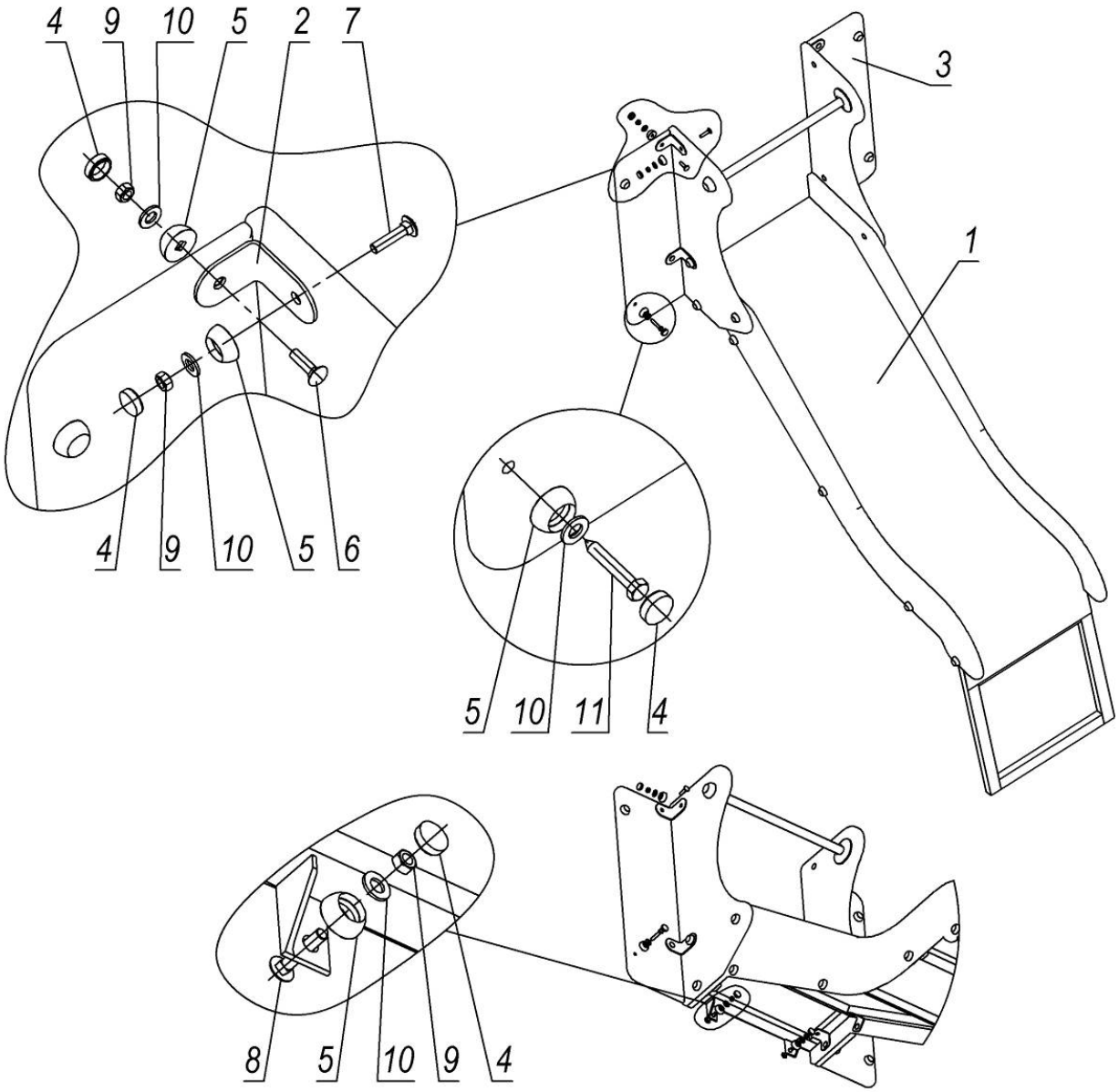
Pos.	Name	Weight, kg	Q-ty
1	Pillar	32	1
2	Sidewall frame left	8	1
3	Sidewall frame right	8	1
4	Brace rod	1	1
5	Embedded element	5	1
6	Lining	2	1
7	Spiral slide	28	1
8	Cap M8		20
9	Cup M8		20
10	Bolt M8x30 GOST7798		2
11	Bolt M8x30 GOST7802		6
12	Nut M8 GOST5915		6
13	Cap nut M16 DIN1587		3
14	Washer 10 GOST11371		20
15	Washer 16 GOST6958		3
16	Washer 16 GOST6402		3
17	Screw 4.2x16 DIN7504N	2	19
18	Screw 8x70 GOST11473		7
19	Screw 8x90 GOST11473		5

Picture 13 – Assembly scheme of spiral descent



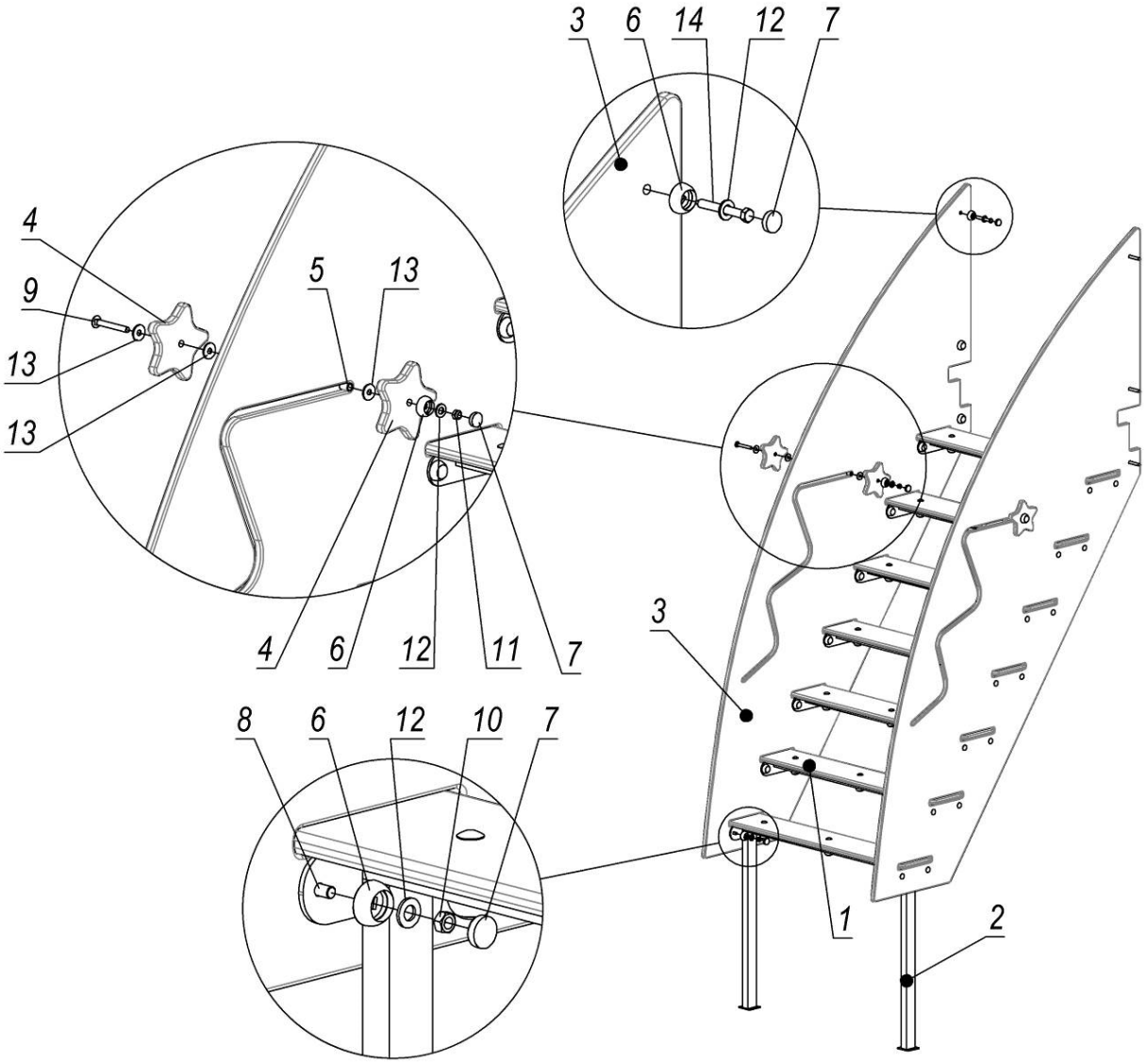
Pos.	Name	Weight, kg	Q-ty
1	Wavy slide (2m)	77	1
2	Support for 2m slide	4	1
3	Angle bar		4
4	Fence	2	2
5	Cap M8		18
6	Cup M8		18
7	Bolt M8x35 GOST7802		4
8	Bolt M8x30 GOST7802		4
9	Bolt M8x40 GOST7802		2
10	Bolt M8x65 GOST7798		2
11	Nut M8 GOST5915		12
12	Washer 10 GOST11371		18
13	Screw 8x50 GOST11473		4

Picture 14 – Assembly scheme of slide 2m



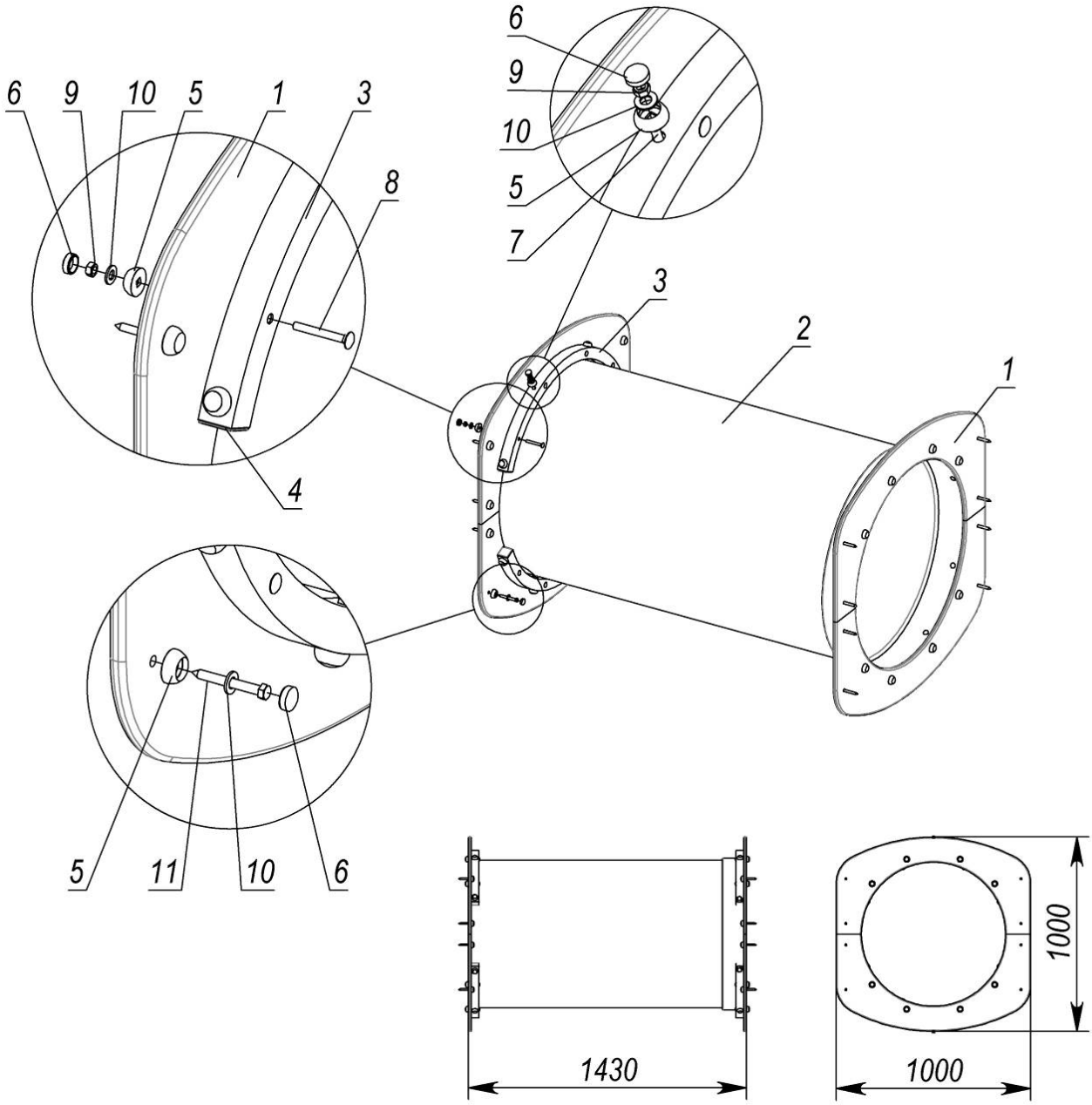
Pos.	Name	Weight, kg	Q-ty
1	Slide 700 mm	38	1
2	Angle bar		4
3	Fence	2	2
4	Cap M8		14
5	Cup M8		14
6	Bolt M8x30 GOST7802		4
7	Bolt M8x35 GOST7802		4
8	Bolt M8x40 GOST7802		2
9	Nut M8 GOST5915		10
10	Washer 10 GOST11371		14
11	Screw 8x50 GOST11473		4

Picture 15 - Assembly scheme of slide 700mm



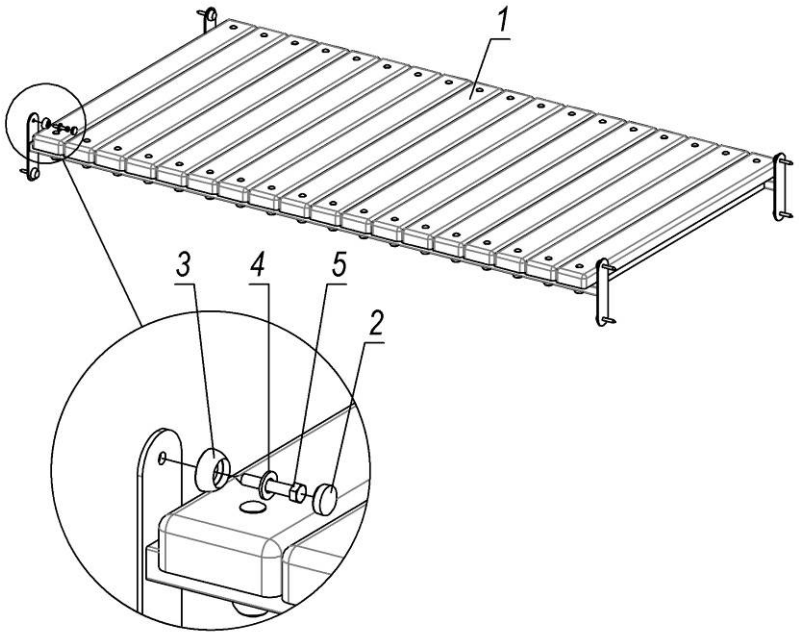
Pos.	Name	Weight, kg	Q-ty
1	Step (stairs 1.5m)	3	6
2	Step (for concrete)	6	1
3	Stairs sidewall	13	2
4	Cover plate "Star"		4
5	Bushing (L=16mm)		2
6	Cup M8		36
7	Cap M8		36
8	Bolt M8x30 GOST7802		28
9	Bolt M8x65 GOST7802		2
10	Nut M8 GOST5915		28
11	Self-locking nut M8 DIN985		2
12	Washer 10 GOST11371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

Picture 16 – Completeness and assembly scheme of stairs 1,5m «Space»



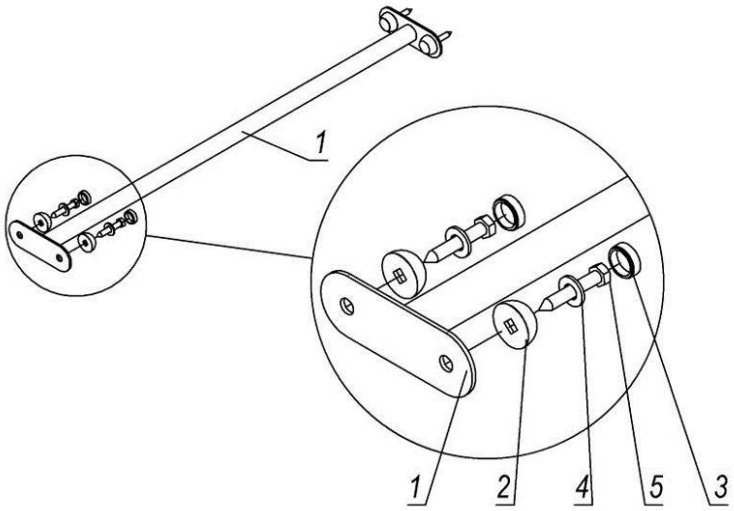
Pos.	Name	Weight, kg	Q-ty
1	Entrance	3	4
2	Straight tube 760	30	1
3	Bent tube	2	4
4	Plug 40x40		8
5	Cup M8		48
6	Cap M8		48
7	Bolt M8x60 GOST7802		16
8	Bolt M8x65 GOST7802		16
9	Nut M8 GOST5915		32
10	Washer 10 GOST11371		48
11	Screw 8x70 GOST11473		16

Picture 17 – Assembly scheme of tube crossing



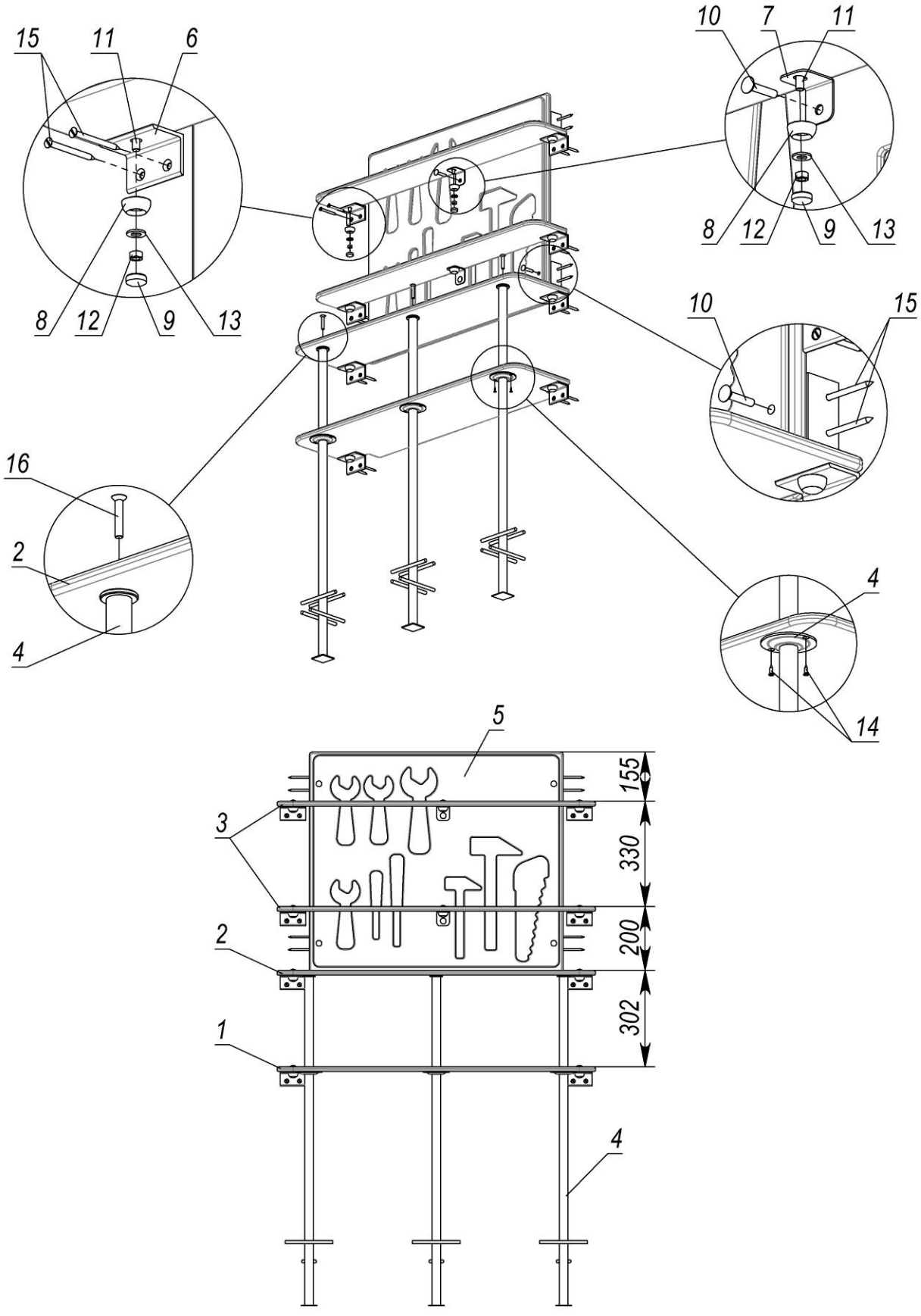
Pos.	Name	Weight, kg	Q-ty
1	Straight bridge	59	1
2	Cap M8		8
3	Cup M8		8
4	Washer 10 GOST11371		8
5	Screw 8x70 GOST11473		8

Picture 18 – Fastening scheme of straight bridge



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

Picture 19 – Assembly scheme of brace rod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200
302
3
2
1
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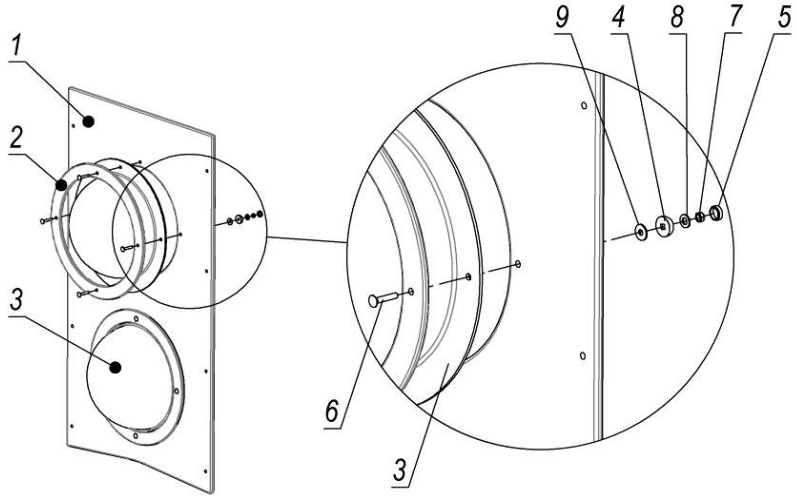
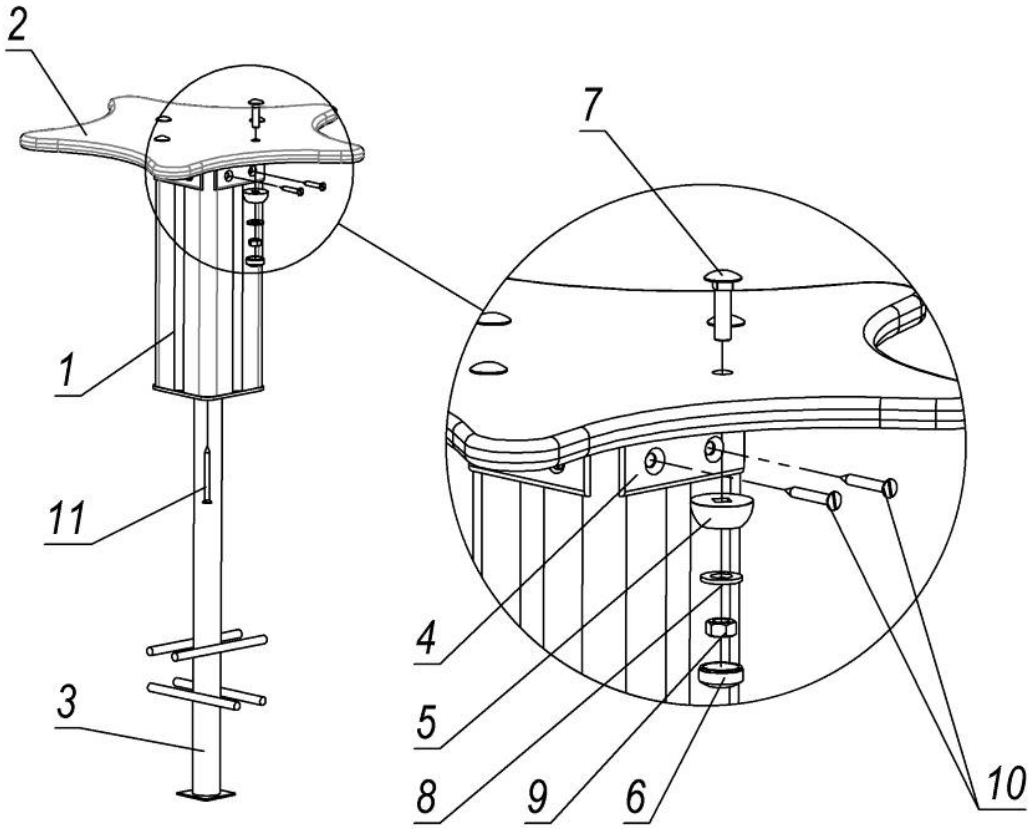
Pos.	Name	Weight, kg	Q-ty
1	Lower table	3	1
2	Upper table	3	1
3	Shelf	2	2
4	Workshop support	2	3
5	Panel "Workshop"	9	1
6	Big angle bar		12
7	Small angle bar		2
8	Cup M8		16
9	Cap M8		16
10	Bolt M8x40 GOST7802		6
11	Bolt M8x30 GOST7802		10
12	Nut M8 GOST5915		16
13	Washer 10 GOST11371		16
14	Screw 4x16 GOST1145		6
15	Screw 6x70 GOST1145		24
16	Stud M8x45 DIN7991		3

Picture 20 – Completeness and assembly scheme of «Panel workshop»



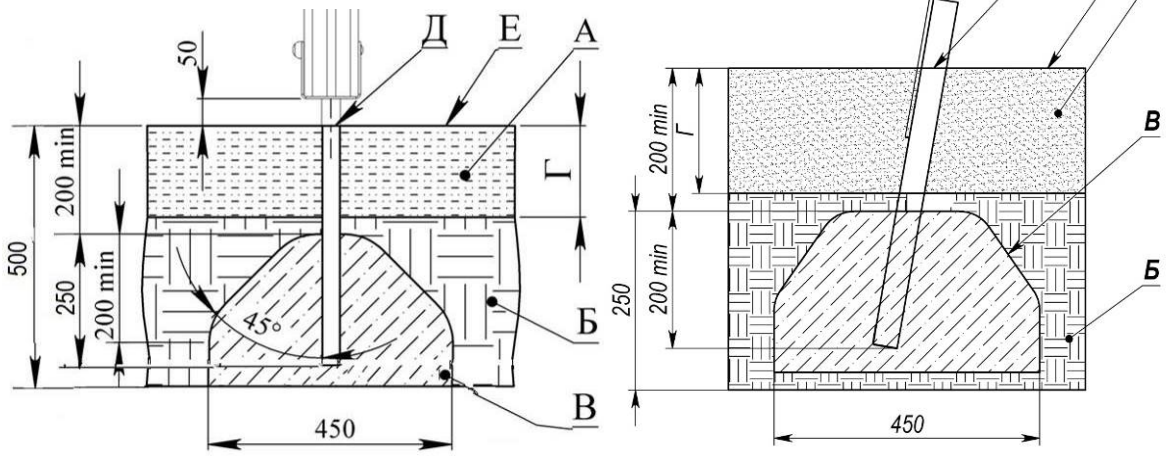
Pos.	Name	Weight, kg	Q-ty
1	Panel "Rocket"	9	1
2	Cover plate porthole	538	2
3	Acrylic hemisphere (d380-500 mm)	2	2
4	Cup M8		8
5	Cap M8		8
6	Bolt M8x45 GOST7802		8
7	Nut M8 GOST5915		8
8	Washer 10 GOST11371		8
9	Washer 8 GOST6958		8

Picture 21 – Assembly scheme of panel «Rocket» with porthole



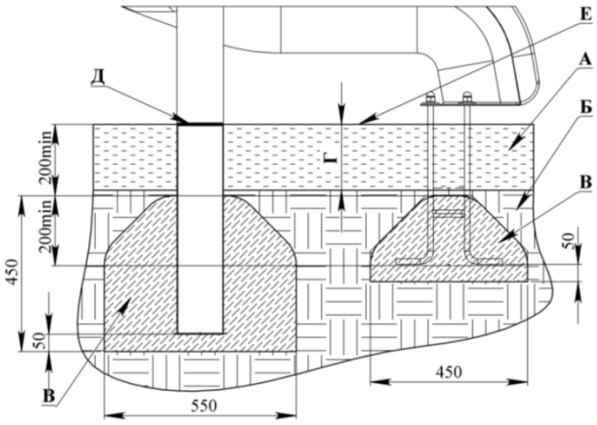
Pos.	Name	Weight, kg	Q-ty
1	Beam PN°1, L=300 mm	2	1
2	Table "Star"	1	1
3	Support	2	1
4	Big angle bar		4
5	Cup M8		4
6	Cap M8		4
7	Bolt M8x30 GOST7802		4
8	Washer 10 GOST11371		4
9	Nut M8 GOST5915		4
10	Screw 5x35 GOST1145		8
11	Screw 6x70 GOST1145		2

Picture 22 – Assembly scheme of chair «Star»



For beams support and other elements

for slides of the complex



For spiral descent

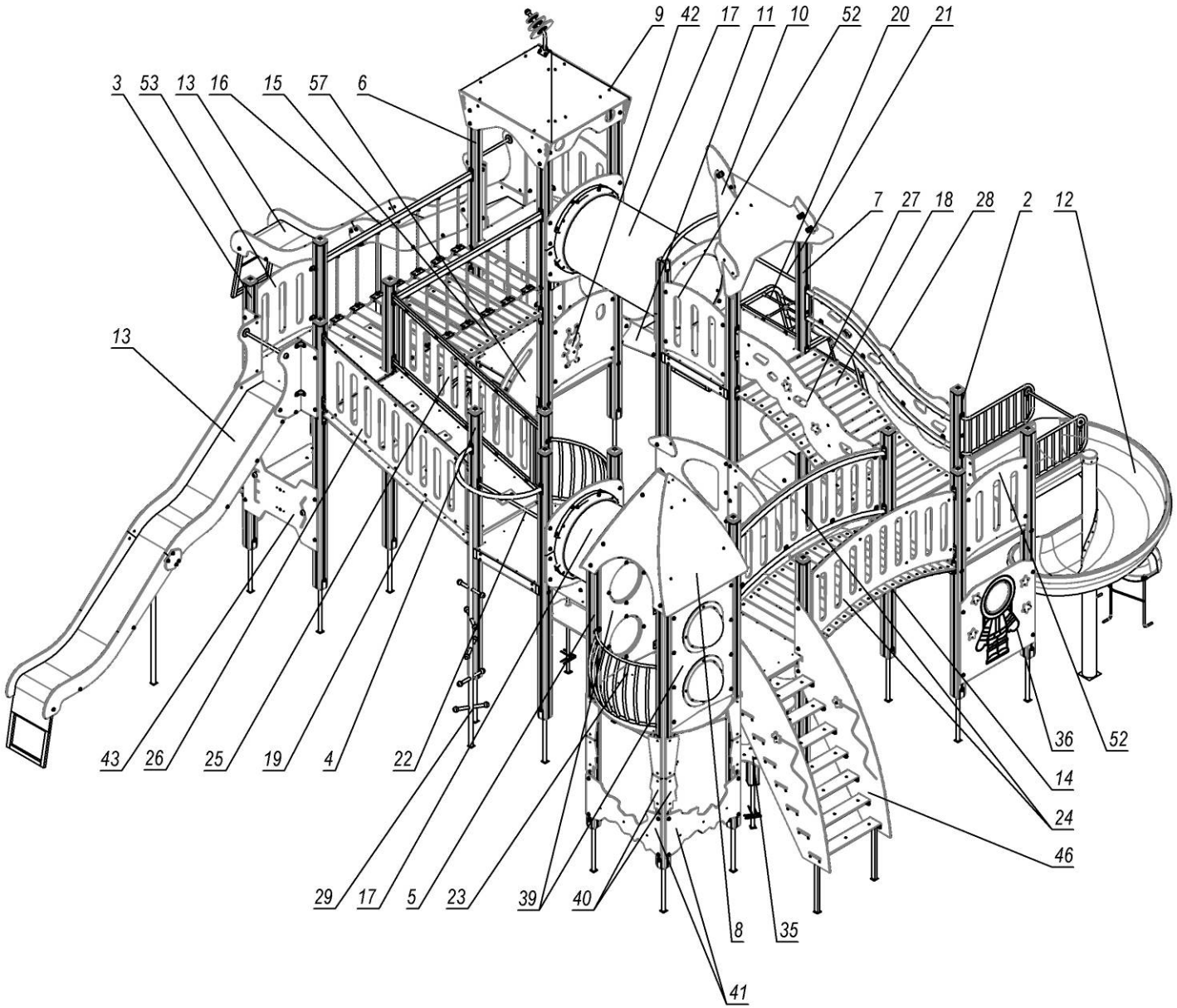
А - shock-absorbing coating;
Б – soil;
В – concrete;
Г - depth of the shock absorbing coating;
Д - product level plane;
Е – game surface.

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 – Concreting scheme


9
42
17
11
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52
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57
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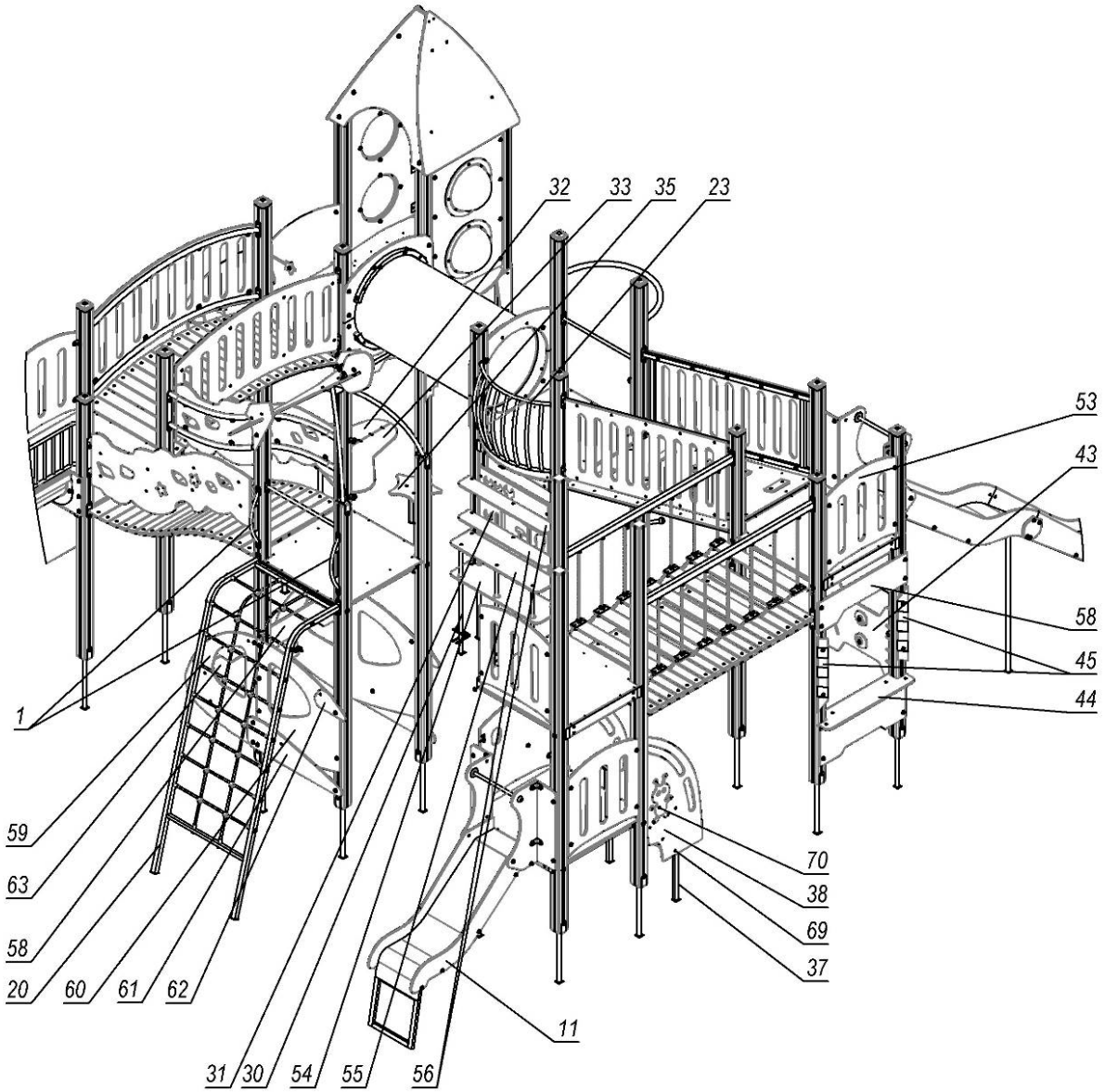
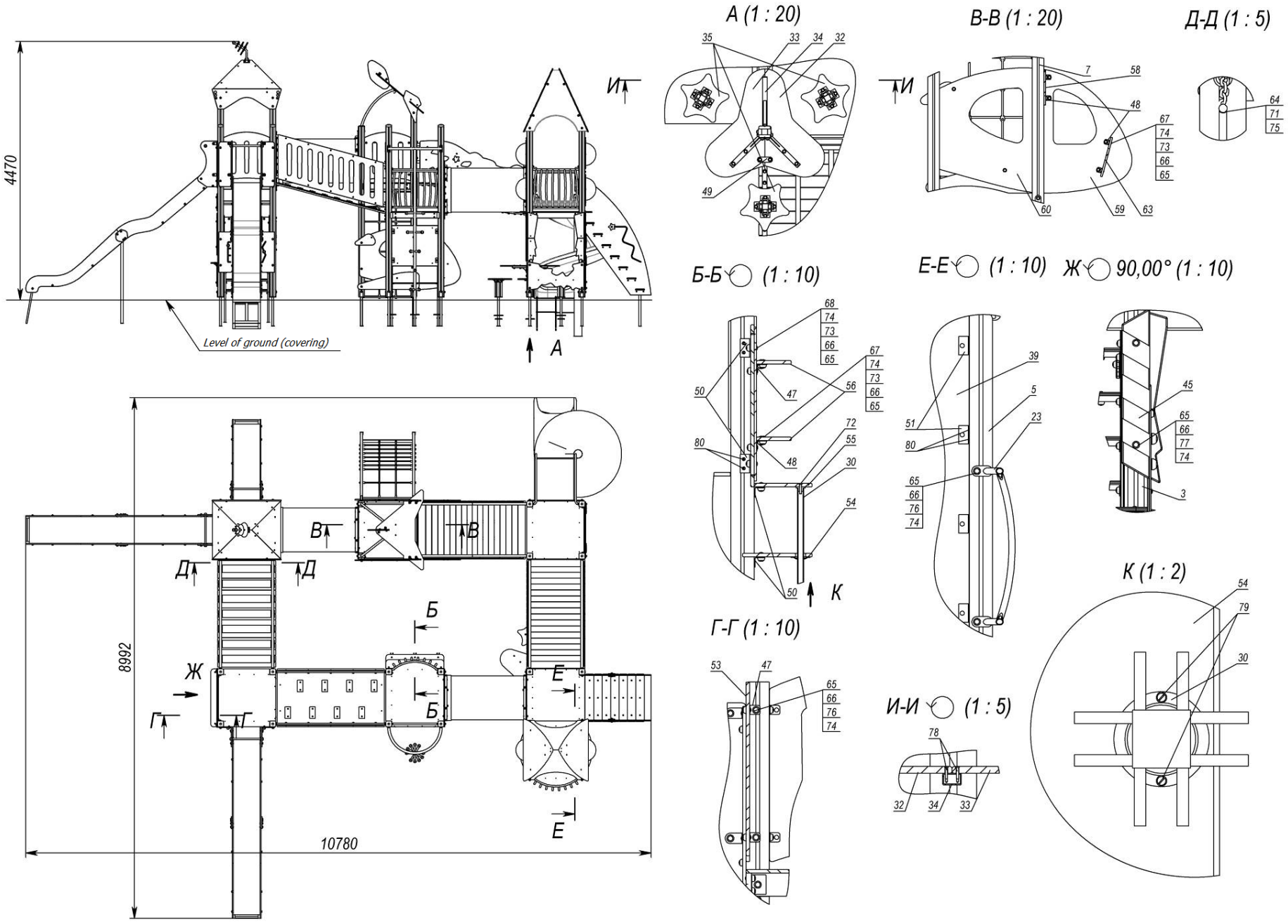
35
41

Picture 24



1. Drill 5 mm diameter holes at the assembly site for the screws used to fasten the components of the complex.
2. Detailed instructions for assembling the product can be found in the product data sheet.

Picture 25

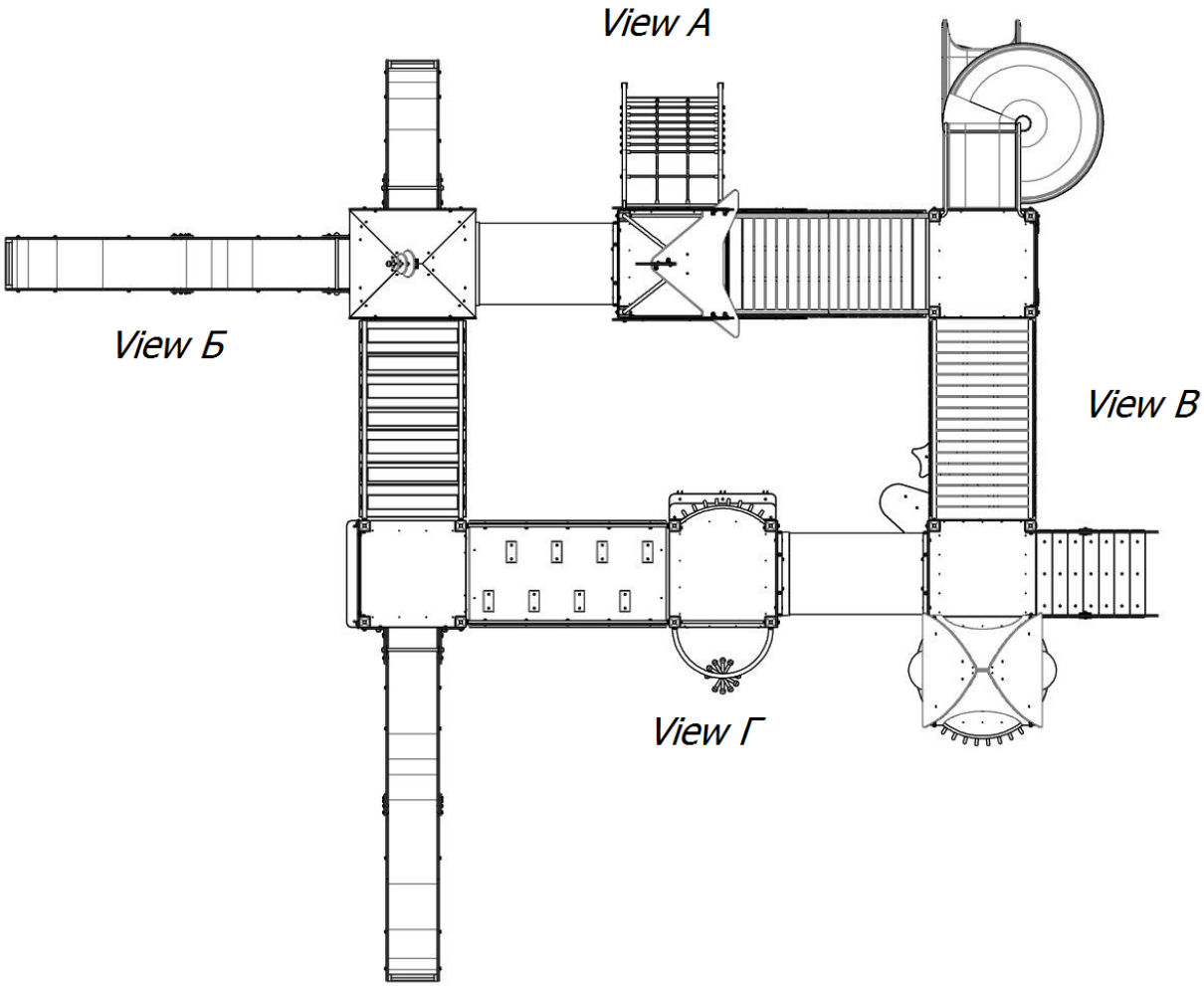


Picture 26 - Overall dimensions of the complex

Pos.	Name	Weight, kg	Q-ty	Pos.	Name	Weight, kg	Q-ty
1	Ladder handle	1	2	41	Smoke trail	5	2
2	Tower (1.5m) with hardware	84	1	42	Panel "UFO" with cover plate	7	1
3	Tower 2m 1x1	93	1	43	Dashboard	7	1
4	Tower 1.5 m (beam 2.5-2.95m)	89	1	44	Cash desk	7	1
5	Double tower (1.9x1 m)	143	1	45	Shutters	1	2
6	Tower 0.7-2m (beam 3.5m)	107	1	46	Stairs (1.5m) Space	54	1
7	Tower 2m (beam 3.35-3.1m)	97	1	47	Small angle bar		25
8	Roof "Rocket"	32	1	48	Small angle bar		9
9	Roof "Space-2"	37	1	49	Flange 3x45x130mm		1
10	Roof "Space shuttle"	18	1	50	Big angle bar		12
11	Slide 700 assembly		1	51	Big angle bar		16
12	Spiral descent assembly	84	1	52	Small fence (with grooves)	6	3
13	Wavy slide (2m) assembly	86	2	53	Small fence (with grooves)	6	2
14	Radial bridge (plywood TPS)	42	1	54	Lower table	3	1
15	Straight bridge assembly	59	1	55	Upper table	3	1
16	Chain bridge (plywood TPS)	53	1	56	Shelf	2	2
17	Tunnel crossing (Ukrhimplast)	52	2	57	Stairs railings (0.7m)	8	1
18	Wavy bridge (plywood TPS)	40	1	58	Cash desk canopy	3	2
19	Incline bridge (plywood TPS)	39	1	59	Front of starship	6	2
20	Rope crossing (2m)	25	1	60	Starship cabin	8	2
21	Brace rod assembly	2	1	61	Wing	3	2
22	Brace rod assembly	2	1	62	Spoiler	1	2
23	Arched balcony (0.9m)	11	2	63	Starship partition		1
24	Arched railing (with grooves)	24	2	64	Cap S13		4
25	Incline bridge railing left	23	1	65	Cap M8		276
26	Incline bridge railing right	23	1	66	Cup M8		276
27	Wavy railing (drop 500mm) right	23	1	67	Bolt M8x30 GOST7802		64
28	Wavy railing (drop 500mm) left	23	1	68	Bolt M8x40 GOST7802		10
29	Ladder - climber	15	1	69	Bolt M8x50 GOST7802		9
30	Workshop support	2	3	70	Bolt M8x60 GOST7802		1
31	Panel "Workshop"	9	1	71	Bolt M8x120 DIN931		4
32	Half the table with fastening	4	1	72	Stud M8x45 DIN7991		3
33	Half the table with fastening	4	1	73	Nut M8 GOST5915		88
34	Lining	2	1	74	Washer 10 GOST11371		274
35	Table "Star" assembly		3	75	Washer 8 GOST11371		4
36	Panel "Spaceman" with cover plates	10	1	76	Screw 8x50 GOST11473		152
37	Stairs "Space" (0.7m)	18	1	77	Screw 8x70 GOST11473		34
38	Stairs railings with cover plate	8	1	78	Screw with drill 4.8x32 DIN7504P		8
39	Panel "Rocket" with porthole	15	2	79	Screw 4x16 GOST1145		6
40	Reactive trace	3	3	80	Screw 6x70 GOST1145		56

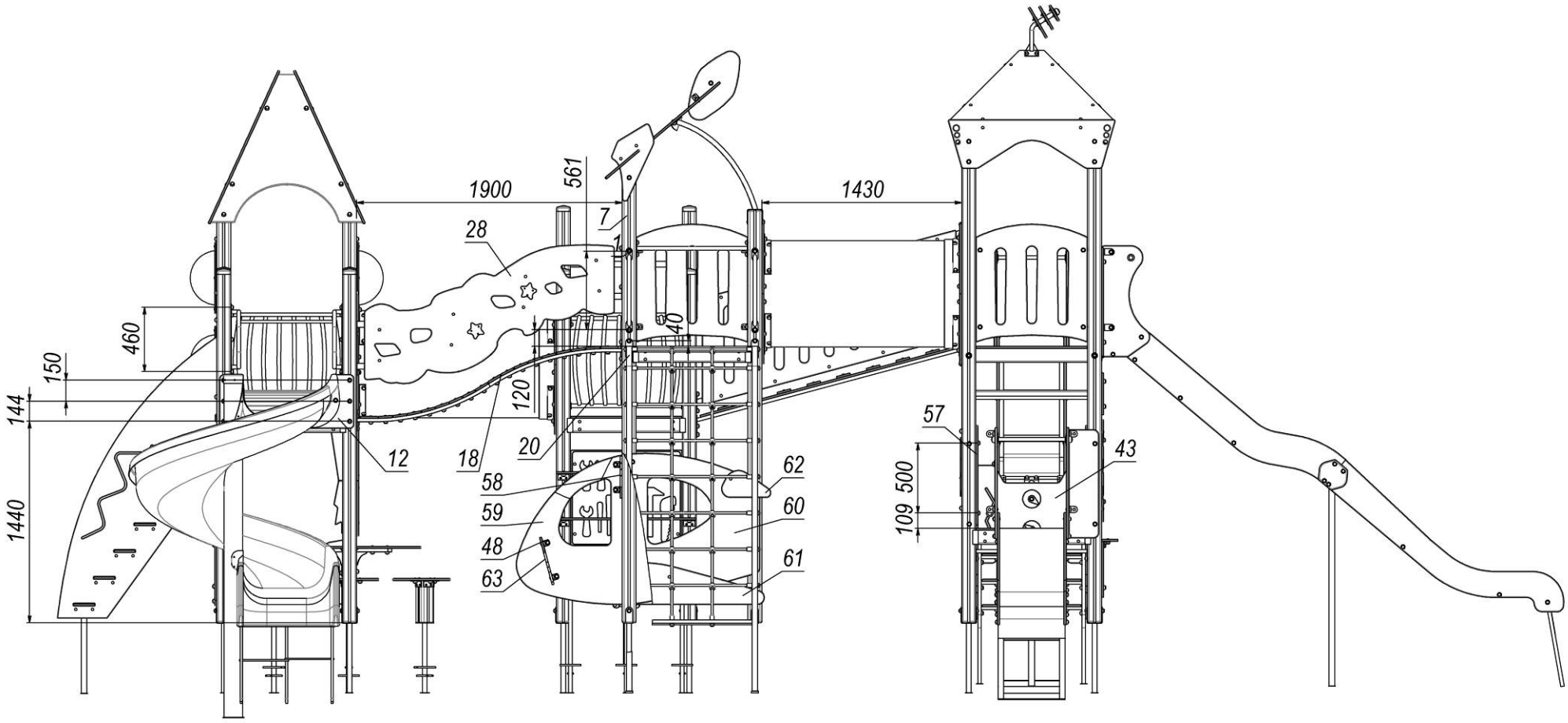
Picture 27

Marking of ‘views’ of the complex



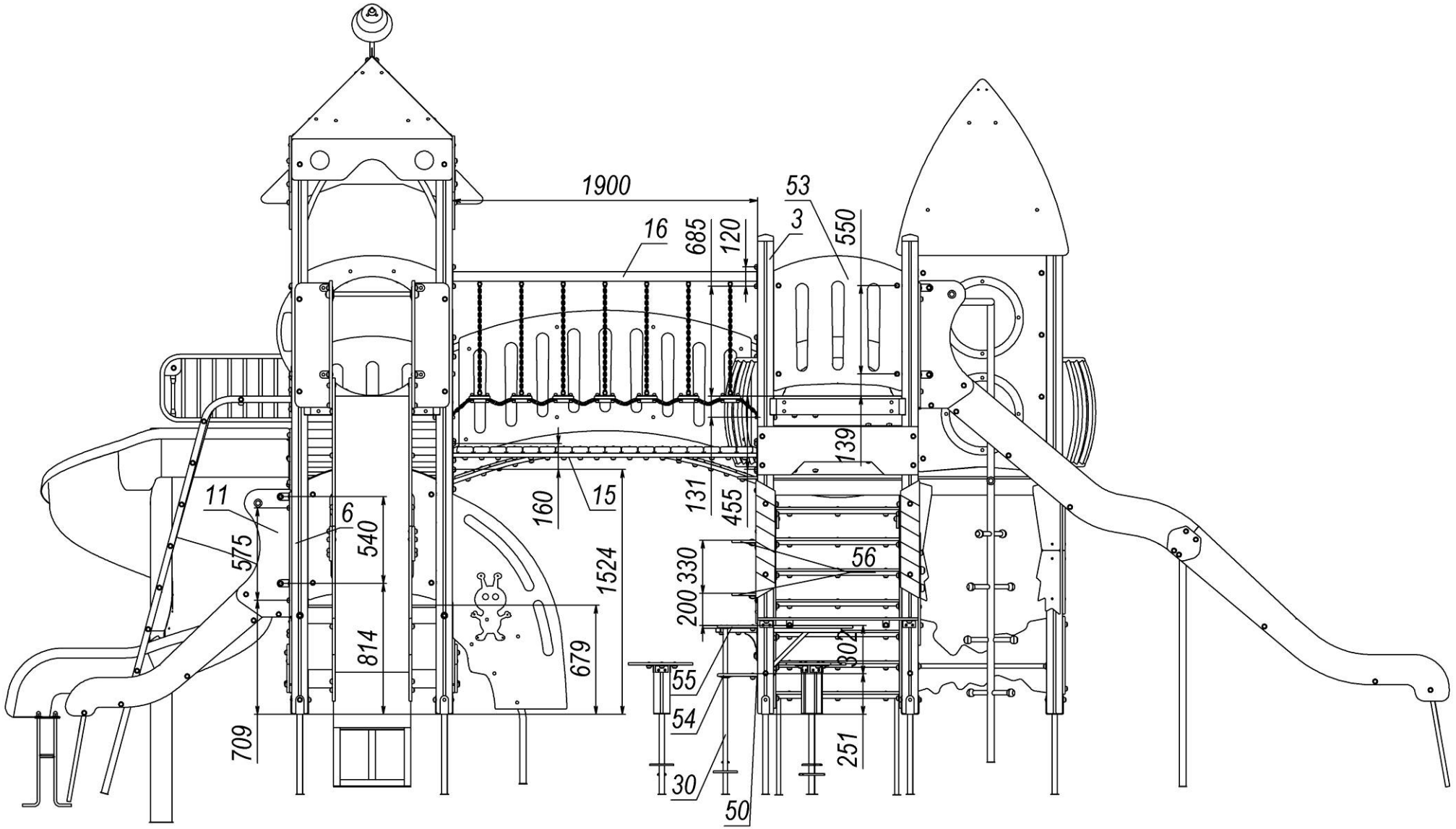
Picture 28

View A



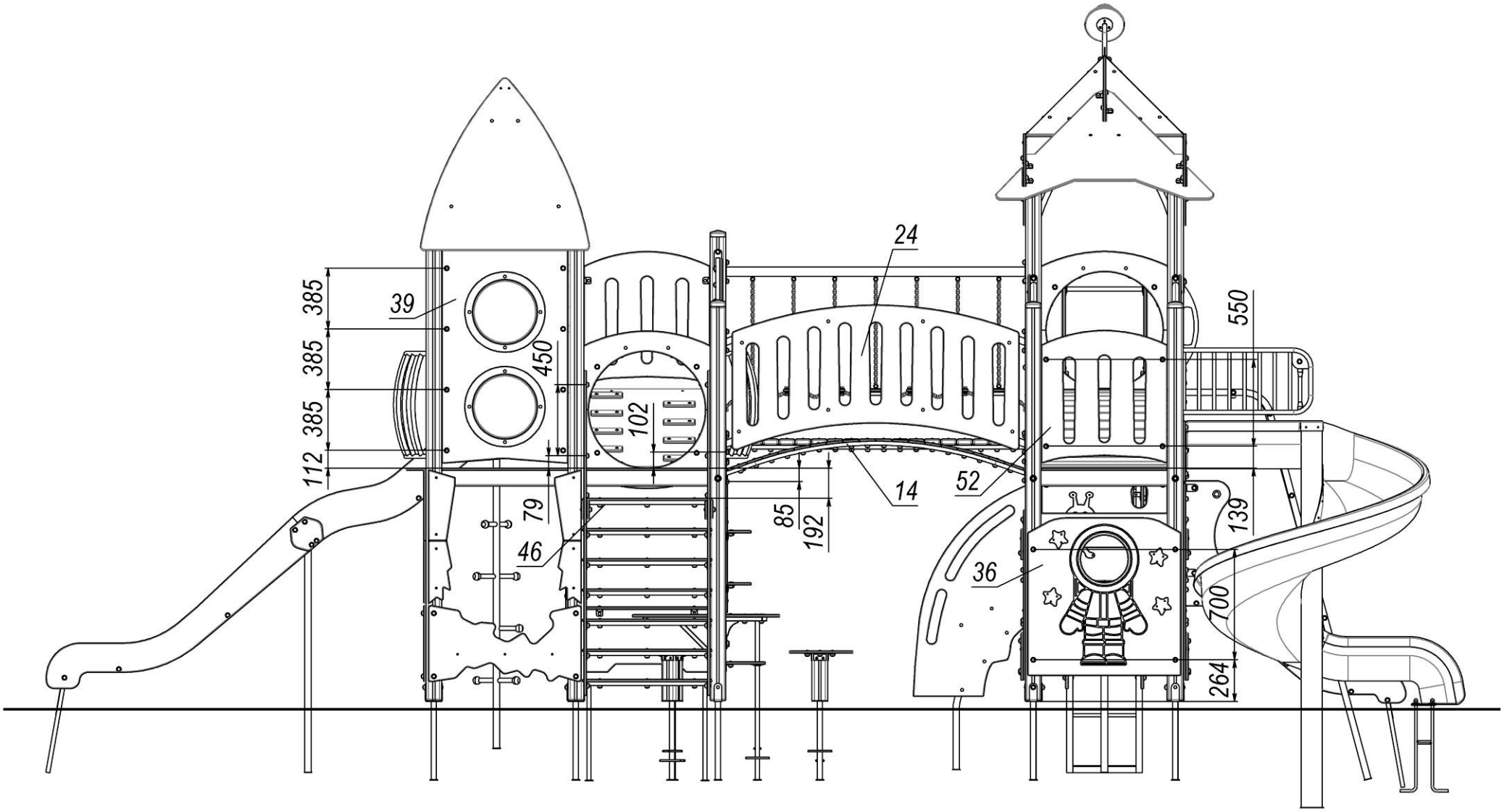
Picture 29

View Б



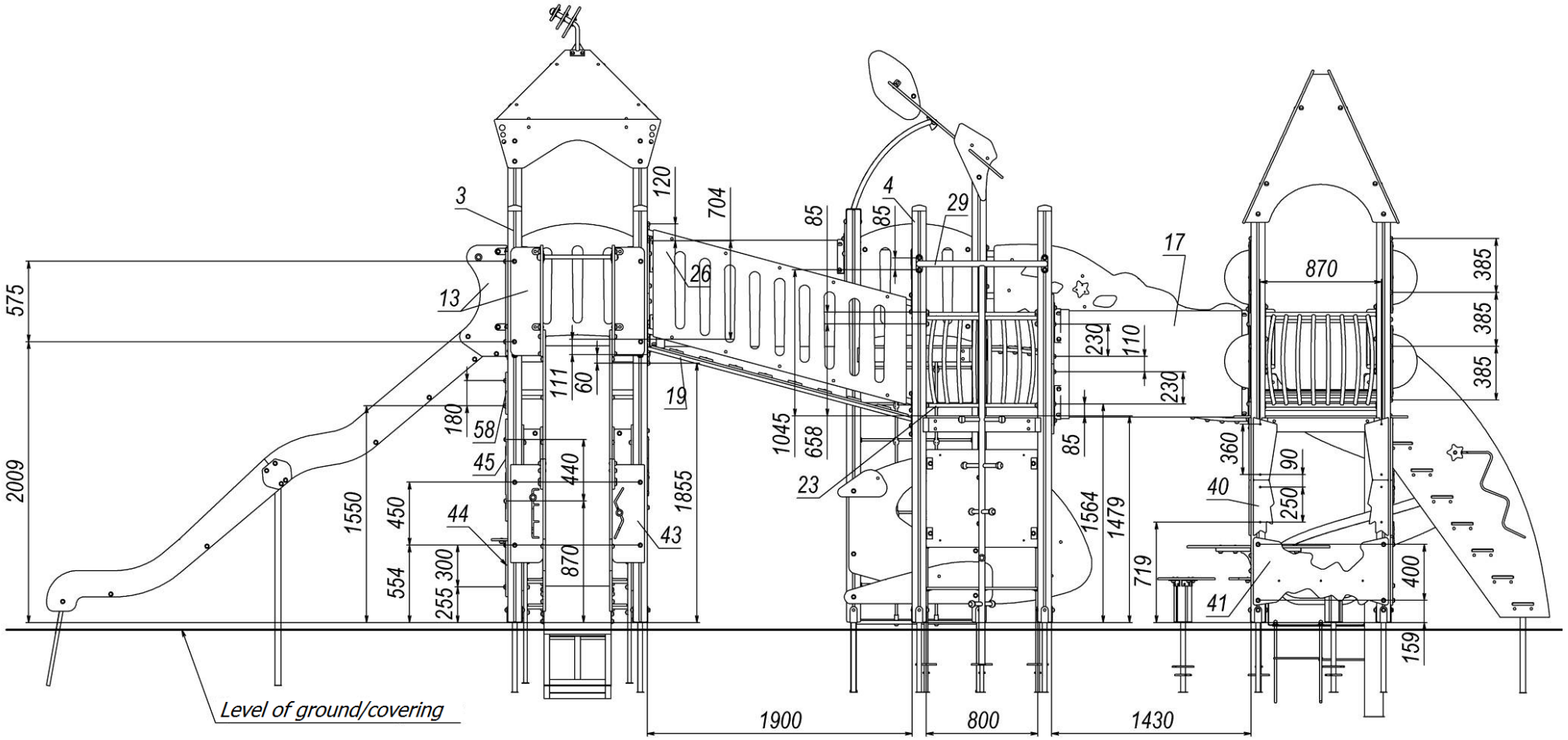
Picture 30

View B



Picture 31

View Г



Picture 32