

DATA SHEET

Playground complex «Big City-3» TE933



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FOR NOTES

This image shows a full page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings present.

1. GENERAL INFORMATION

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

Distribution of this document for product modifications. Manufacturer can make changes to the product design to improve its performance, change the design, etc. This document may not contain a description of such changes, but applies to the following modified products.

2. ASSEMBLING AND INSTALLATION OF THE PRODUCT

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

Procedure of assembling and installing the product.

- 1) Mark the area according to the foundation location scheme.
- 2) Make the digs for installation of the embedded parts and the attachments. The depth of these digs leveled by deepening or adding the gravel.
- 3) Assemble and install the equipment in accordance with the assembly schemes - chapter 7.
- 4) To concrete the embedded parts and support constructions of the attachment elements. During installation of equipment on a sand soil, overall sizes of the digs must be increased by 15-20%.

To avoid cracking of the wood, it is necessary to drill the holes with diameter 0,6..0,7 of the start diameter and depth up to 0,8 of it's length for the screws with diameter more than 4 mm.

WARNING! The presence and participation of the children in the process of installation of the equipment is not allowed.

3. PRODUCT USE

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

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

Before using the product, clear the safety zone of 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. STORAGE, TRANSPORT AND DISPOSAL INFORMATION

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 damage.

Storage information

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

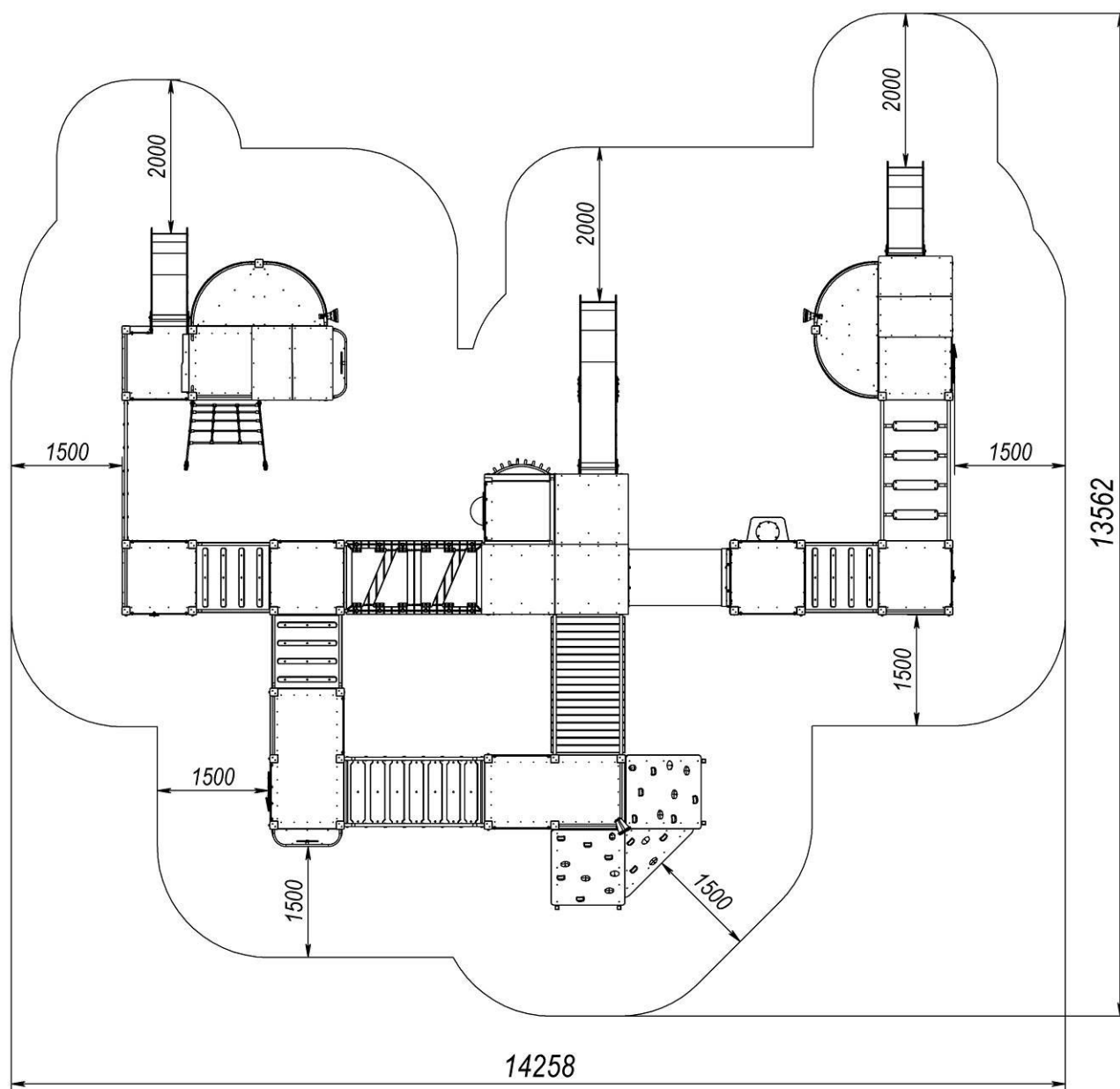
After the end of the equipment's service life, the buyer independently determines the procedure for its use. If you decide to recycle, contact the seller or specialized organizations.

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

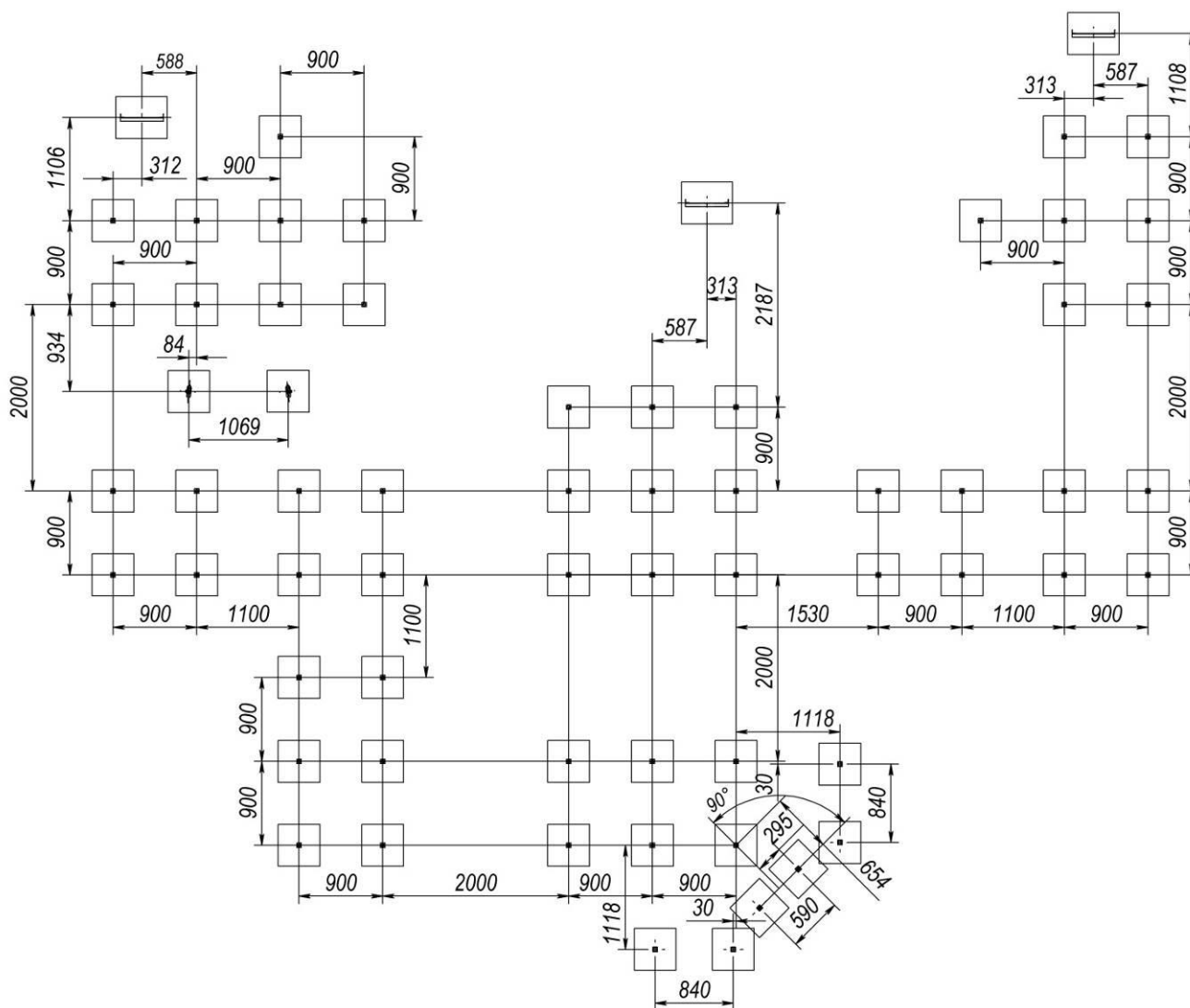
6. TECHNICAL DATA AND ASSEMBLY SCHEMES

Length, mm
Width, mm
Height, mm
Weight, kg
Height of fall, mm
Age restrictions, years
Weight limits, kg

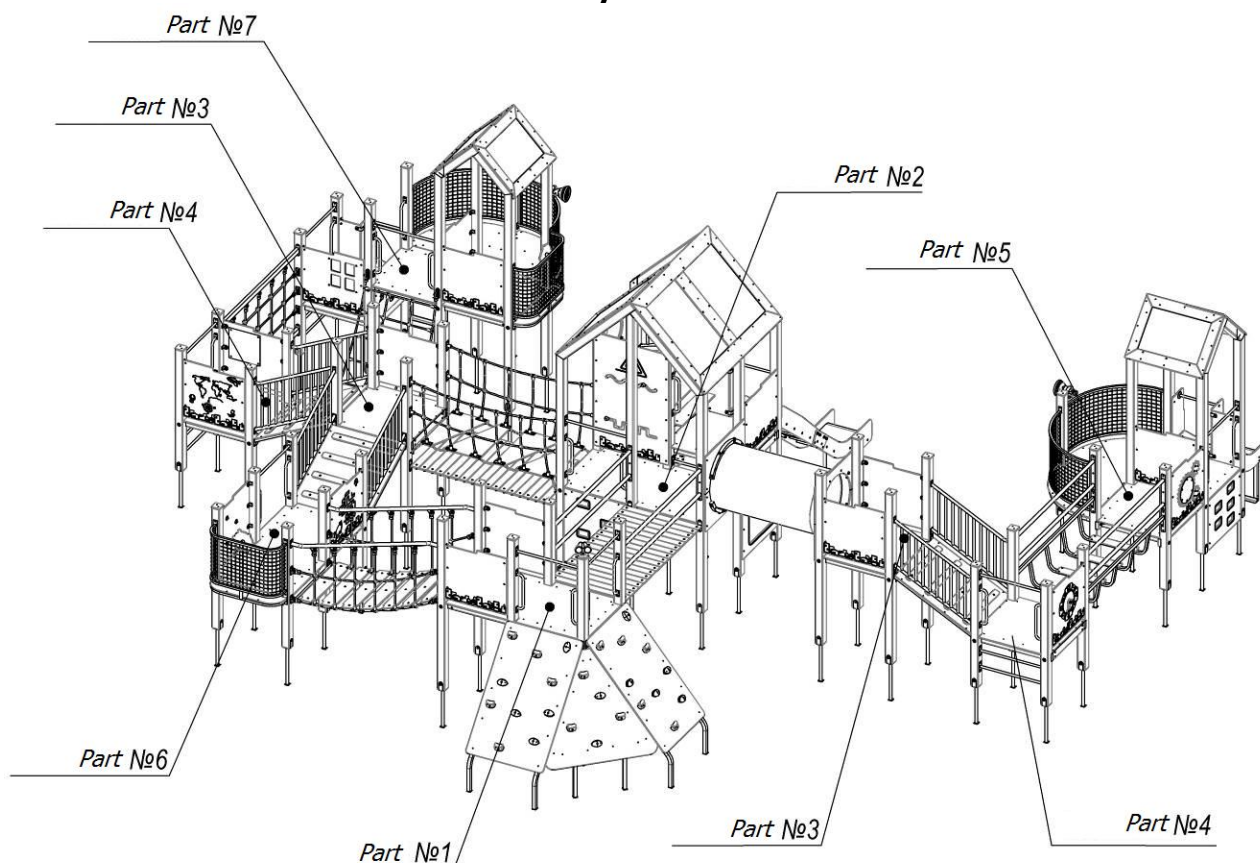
11263
10123
3920
2497
1529
Up to 12
Up to 60



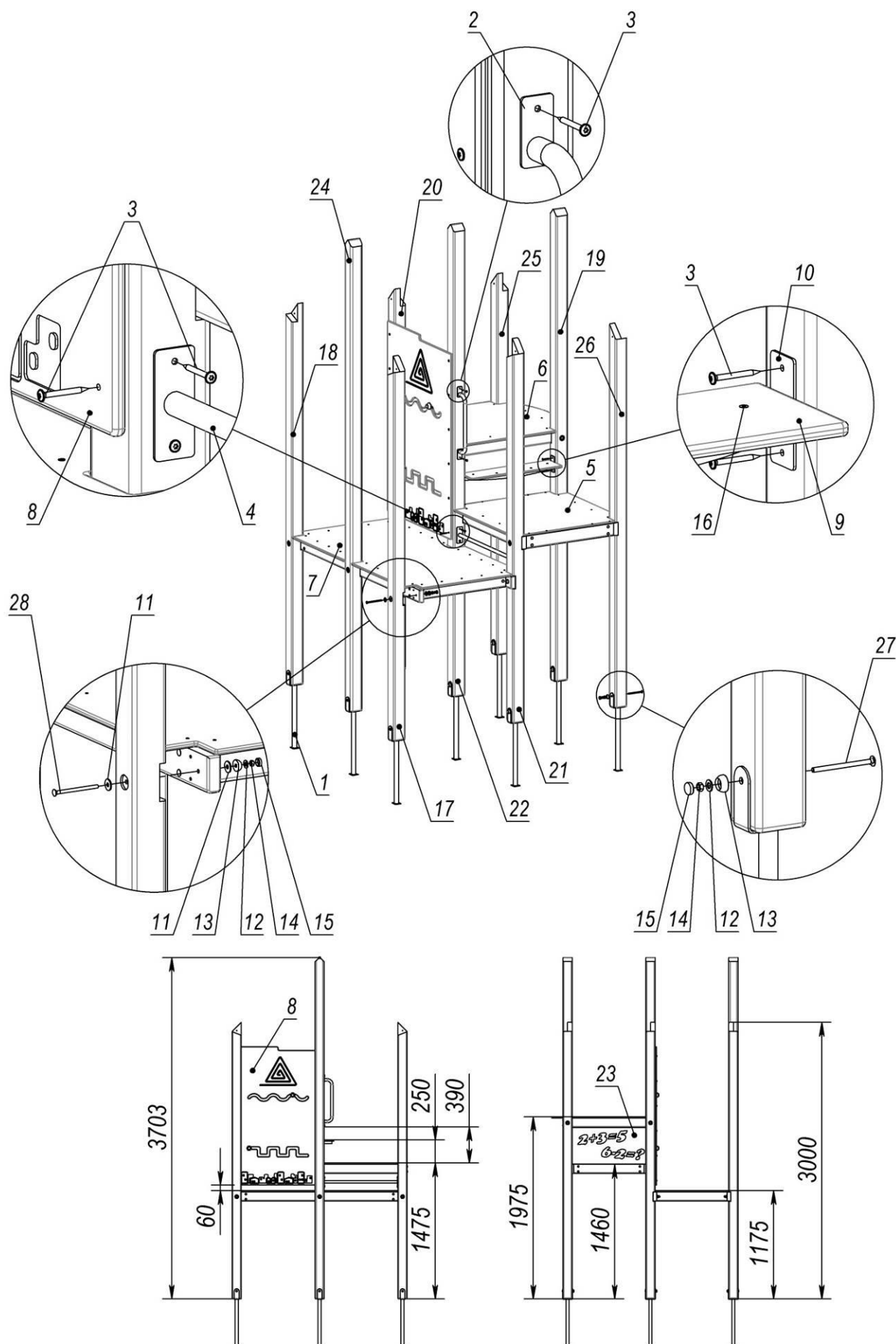
Picture 1 – Landing zone



Picture 2 - Layout of foundations



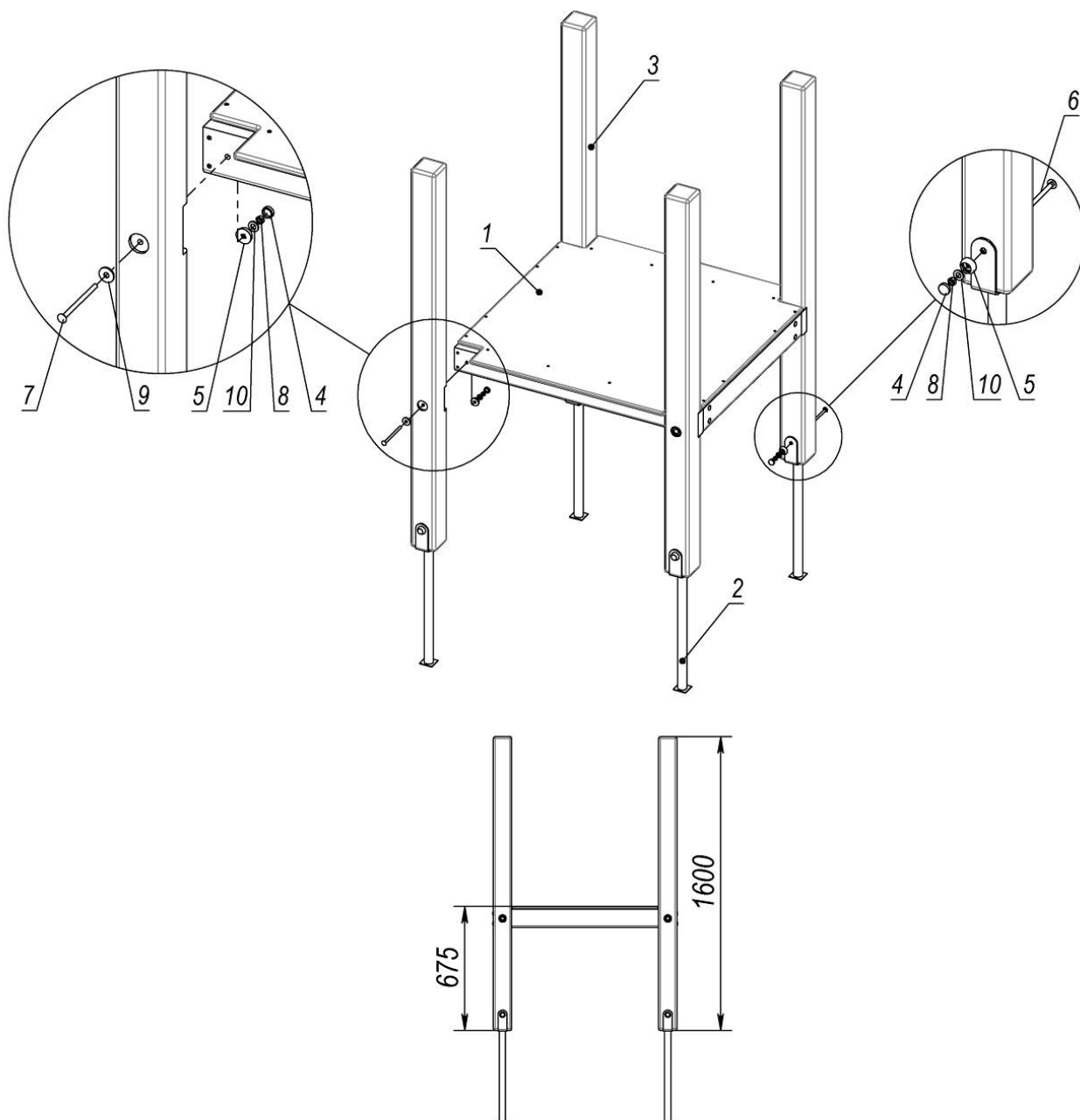
Picture 3 - To simplify the assembly of the complex, we divide it into 7 parts!



Picture 4 – Big tower (1,2-2m). Tower is located under №2 on pic 1

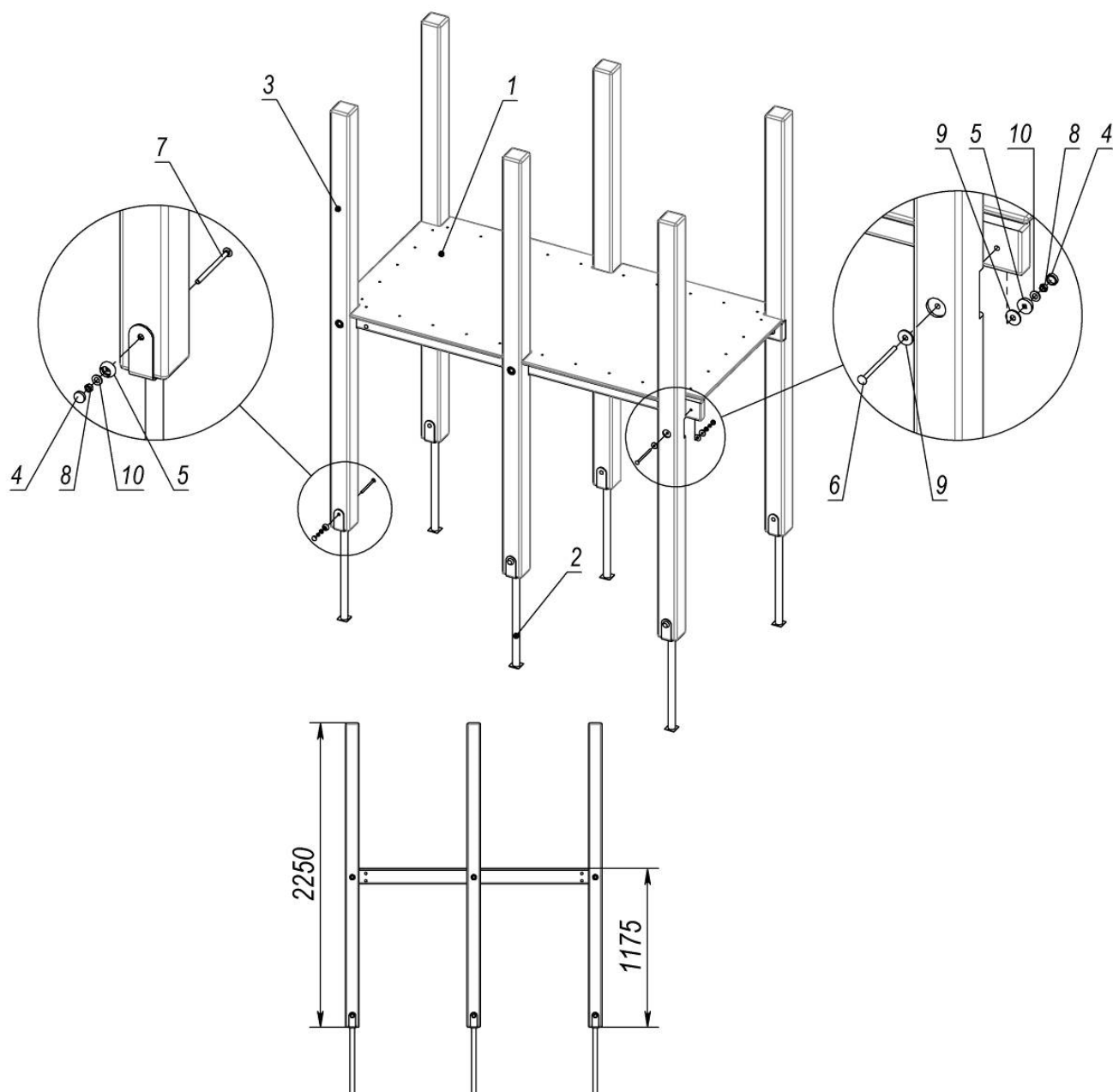
Table №1 – Completeness of Big tower (1,2-2m)

<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Beam support	2	9
2	Handle		1
3	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		26
4	Brace rod 0.8m	1	1
5	Site 1x1m	19	1
6	Site half-circle	19	1
7	Double site (1.9x1m)	35	1
8	Panel "Fine motor skills"	19	1
9	Step (200x787)	2	1
10	Step support	2	1
11	Washer 10 GOST6958		18
12	Washer 10 GOST11371		23
13	Cup M8		23
14	Nut M8 GOST5915		23
15	Cap M8		23
16	Screw with drill 4.8x32 DIN7504P	5	4
17	Beam 3m (mortise 1.2)	17	1
18	Beam 3m (mortise 1.2)	17	1
19	Central beam (mortise 1.5-2)	22	1
20	Beam 3m (mortise 2m)	17	1
21	Beam 3m (mortise 1.5m)	17	1
22	Central beam (mortise 1.2-1.5-2)	21	1
23	Lap	5	1
24	Central beam (mortise 1.2m)	22	1
25	Beam 3m (mortise 2m)	17	1
26	Beam 3m (mortise 1.5m)	17	1
27	Bolt M8*120 GOST7802		9
28	Bolt M8*130 GOST7802		14



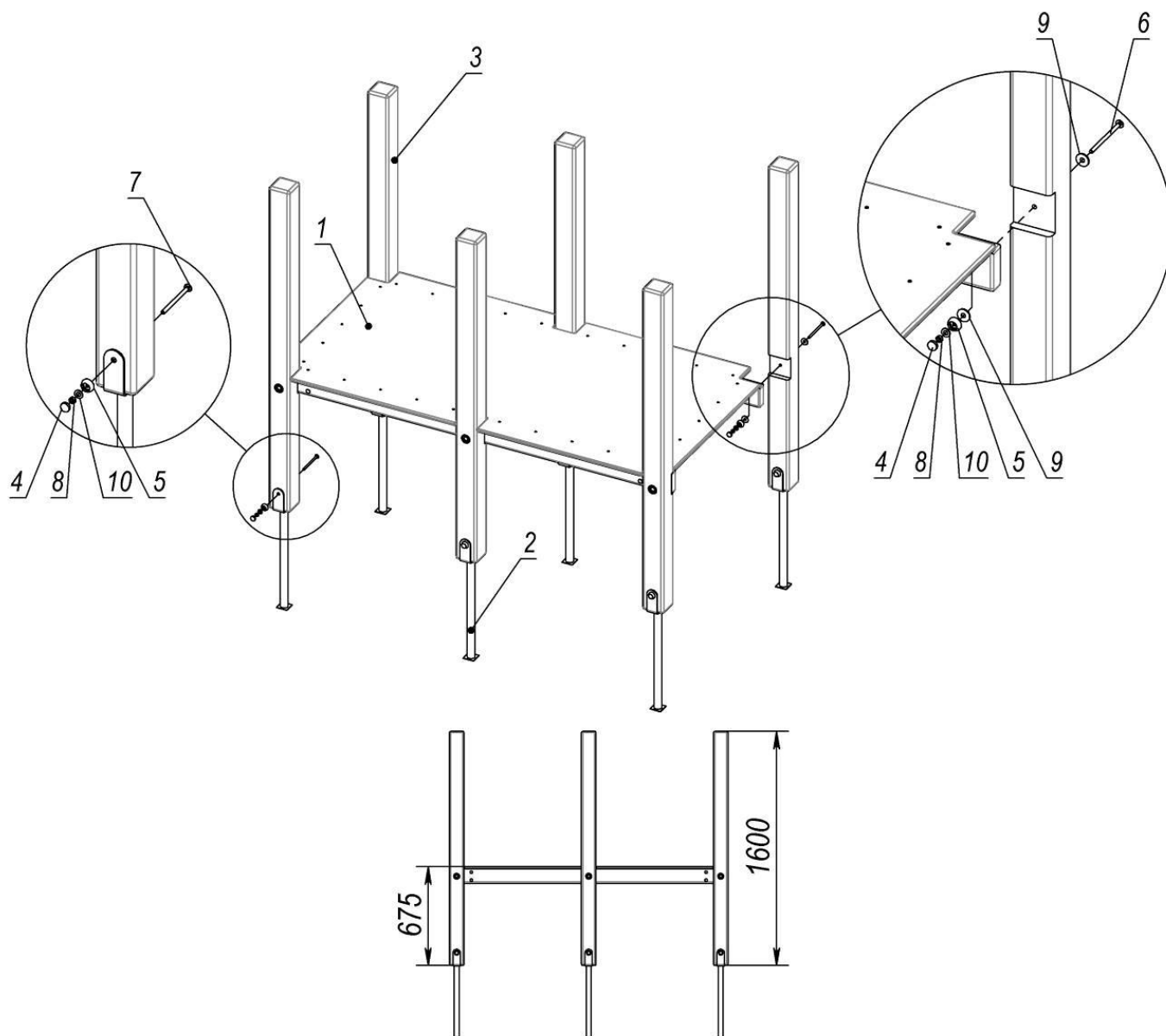
Pos.	Name	Weight, kg	Q-ty
1	Site 1x1m	19	1
2	Beam support	2	4
3	Beam 1.6m (mortise 0.7m)	9	4
4	Cap M8		8
5	Cup M8		8
6	Bolt M8*120 GOST7802		4
7	Bolt M8*130 GOST7802		4
8	Nut M8 GOST5915		8
9	Washer 10 GOST6958		4
10	Washer 10 GOST11371		8

Picture 5 – Tower 0,7m. Tower is located under №4 on pic 1



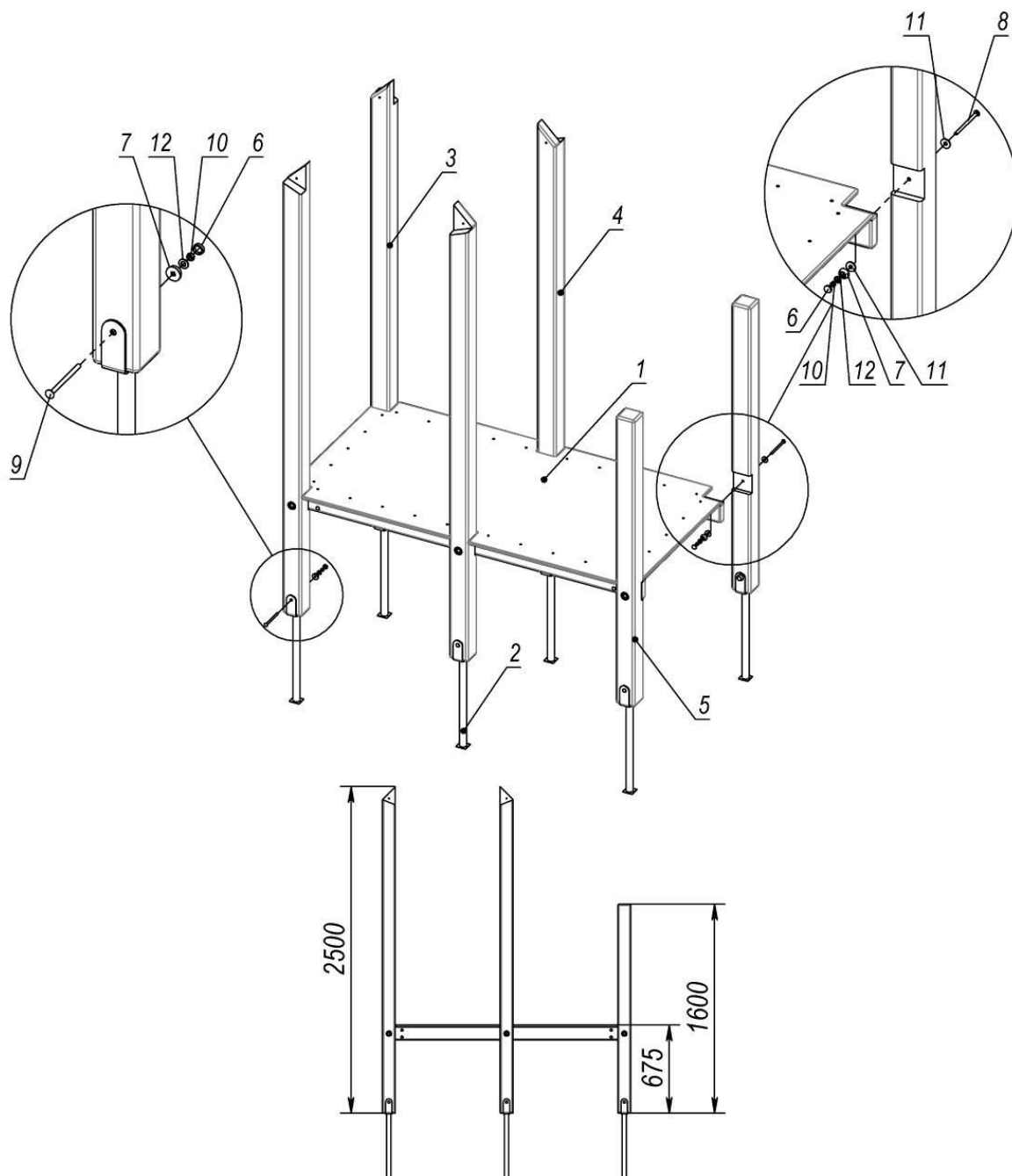
Pos.	Name	Weight, kg	Q-ty
1	Double site	35	1
2	Beam support	2	6
3	Beam 2.20m	13	6
4	Cap M8		12
5	Cup M8		12
6	Bolt M8*130 GOST7802		6
7	Bolt M8*120 GOST7802		6
8	Nut M8 GOST5915		12
9	Washer 10 GOST6958		10
10	Washer 10 GOST11371		12

Picture 6 –Tower 1,2m double. Tower is located under №1 on pic 1



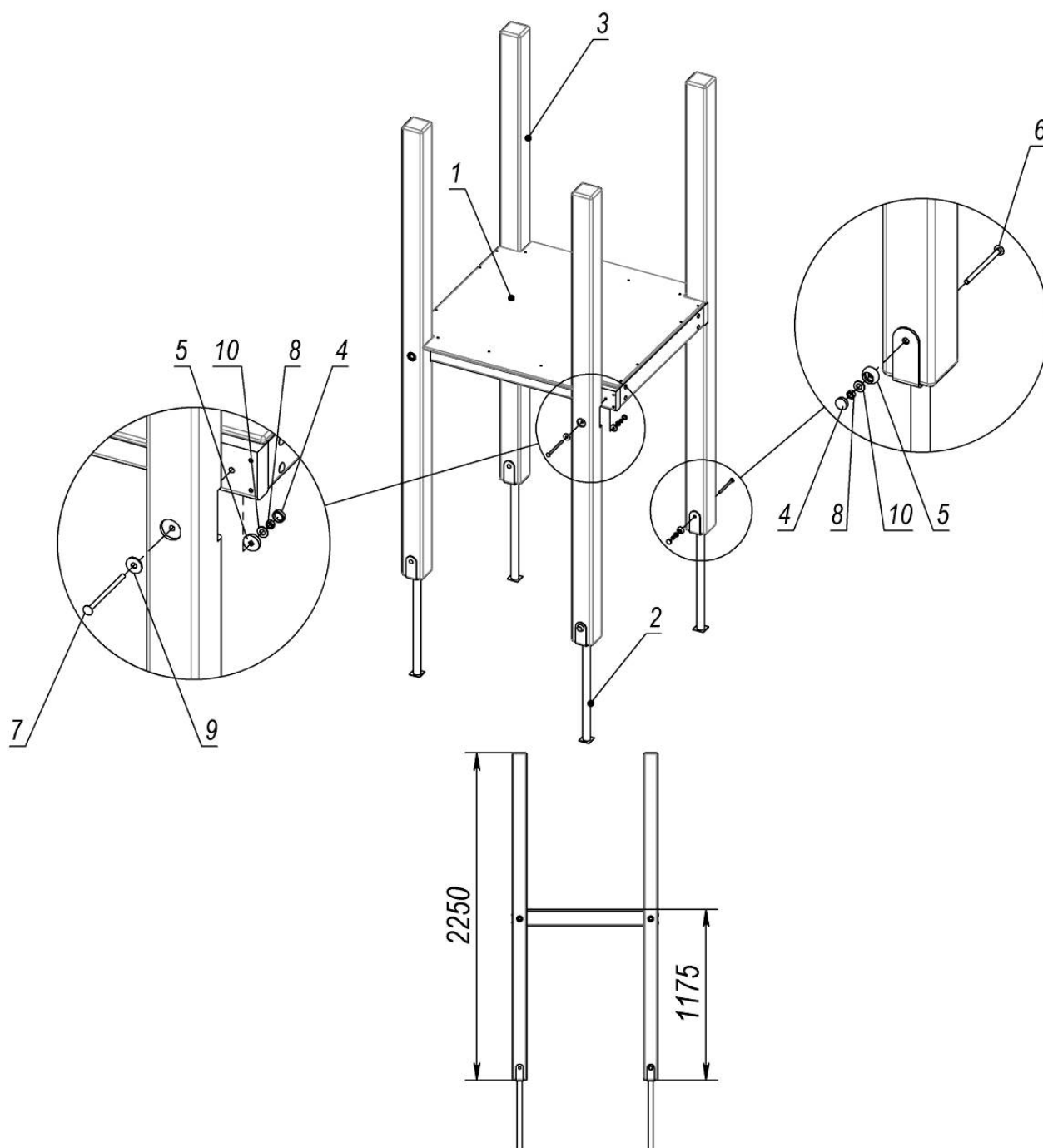
Pos.	Name	Weight, kg	Q-ty
1	Double site	35	1
2	Beam support	2	6
3	Beam 1.6m (mortise 0.7m)	9	6
4	Cap M8		12
5	Cup M8		12
6	Bolt M8*130 GOST7802		6
7	Bolt M8*120 GOST7802		6
8	Nut M8 GOST5915		12
9	Washer 10 GOST6958		10
10	Washer 10 GOST11371		12

Picture 7 – Tower 0,7 double. Tower is located under №6 on pic 1



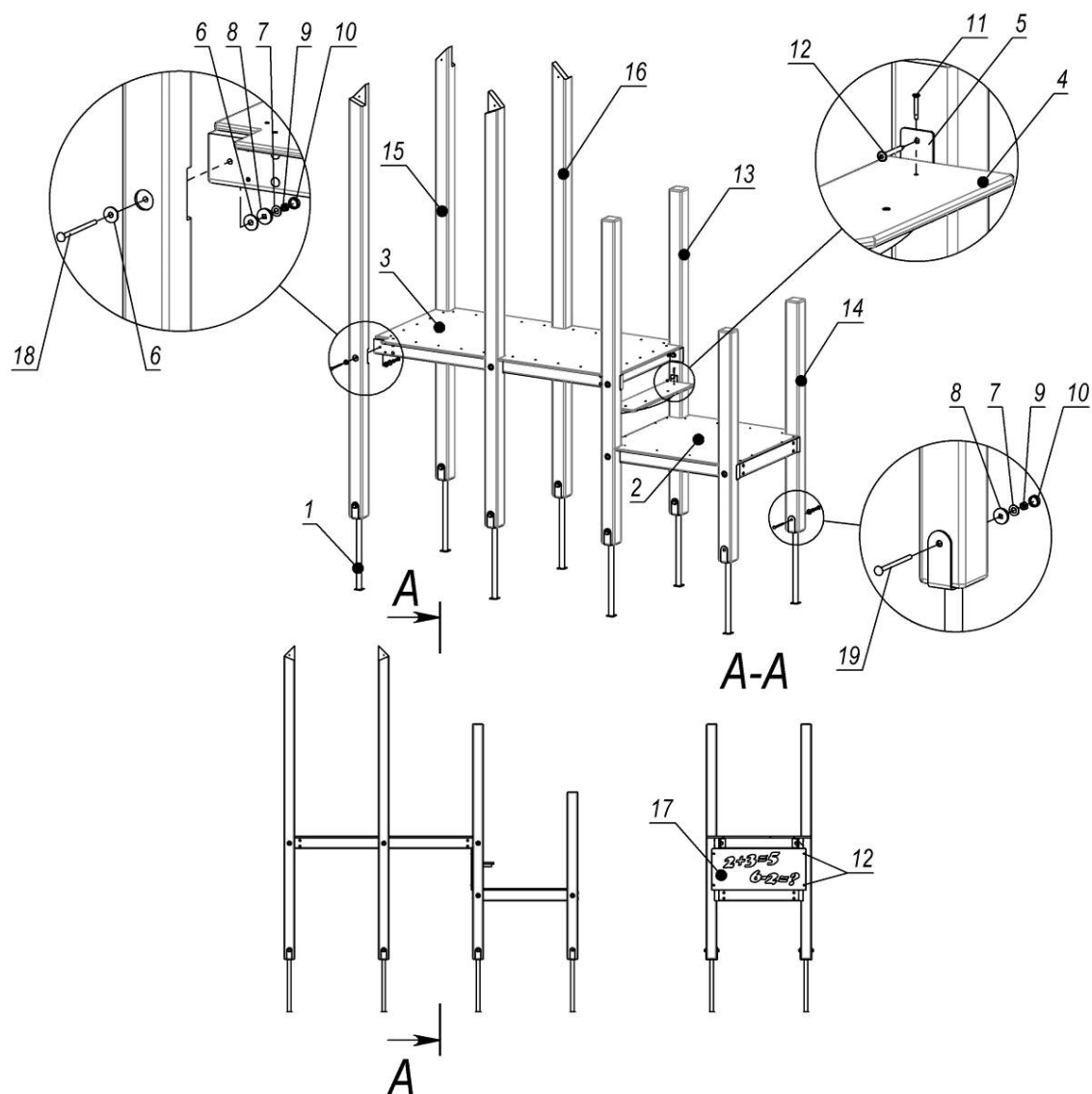
Pos.	Name	Weight, kg	Q-ty
1	Double site	35	1
2	Beam support	2	6
3	Beam 2.5m (mortise 0.7)	14	2
4	Beam 2.5m (mortise 0.7)		2
5	Beam 1.6m (mortise 0.7m)	9	2
6	Cap M8		12
7	Cup M8		12
8	Bolt M8*130 GOST7802		6
9	Bolt M8*120 GOST7802		6
10	Nut M8 GOST5915		12
11	Washer 10 GOST6958		10
12	Washer 10 GOST11371		12

Picture 8 – Tower 0,7-2,5 double. Tower is located under №5 on pic 1



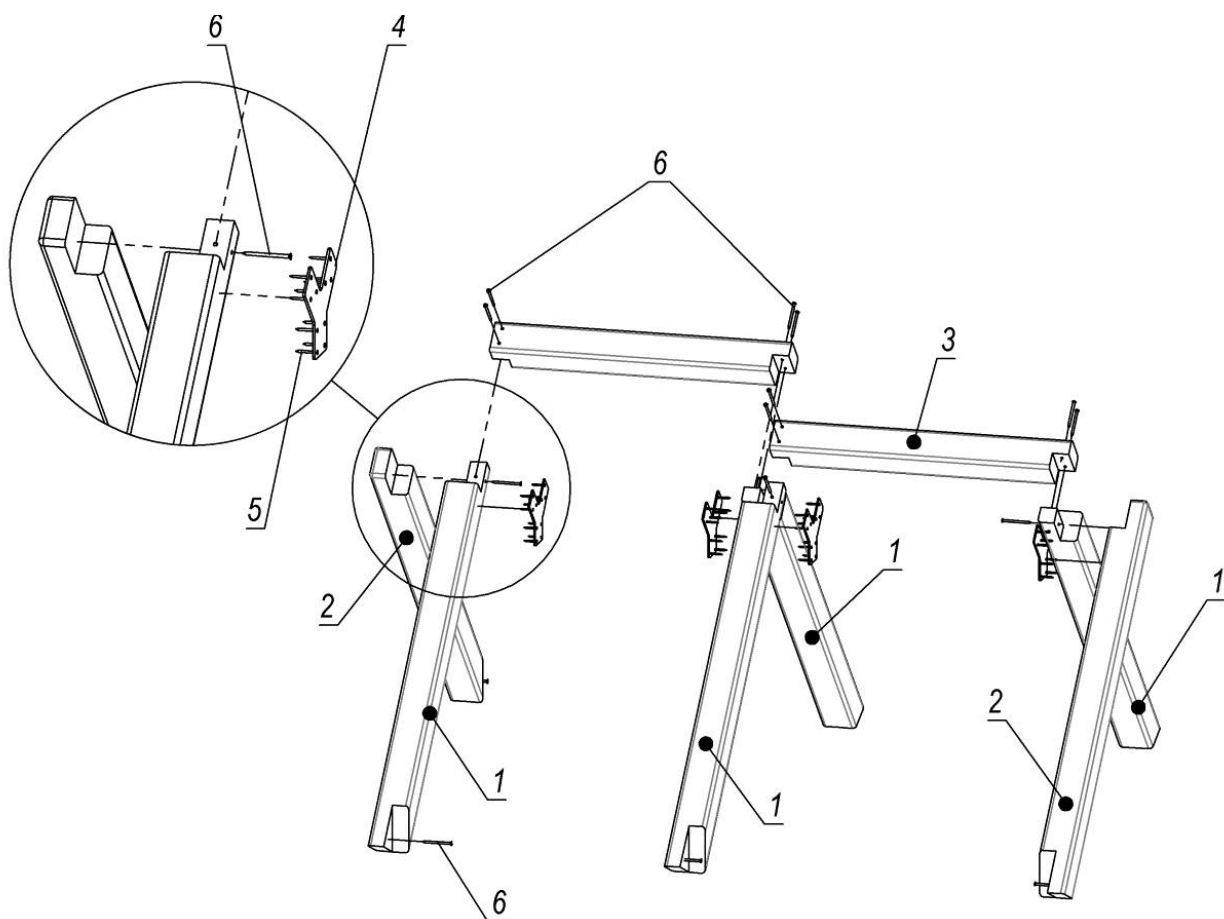
Pos.	Name	Weight, kg	Q-ty
1	Site 1x1m (standard)	19	1
2	Beam support	2	4
3	Beam 2.25m	13	4
4	Cap M8		8
5	Cup M8		8
6	Bolt M8*120 GOST7802		4
7	Bolt M8*130 GOST7802		4
8	Nut M8 GOST5915		8
9	Washer 10 GOST6958		4
10	Washer 10 GOST11371		8

Picture 9 – Tower 1,2m 1x1. Tower is located under №3 on pic 1

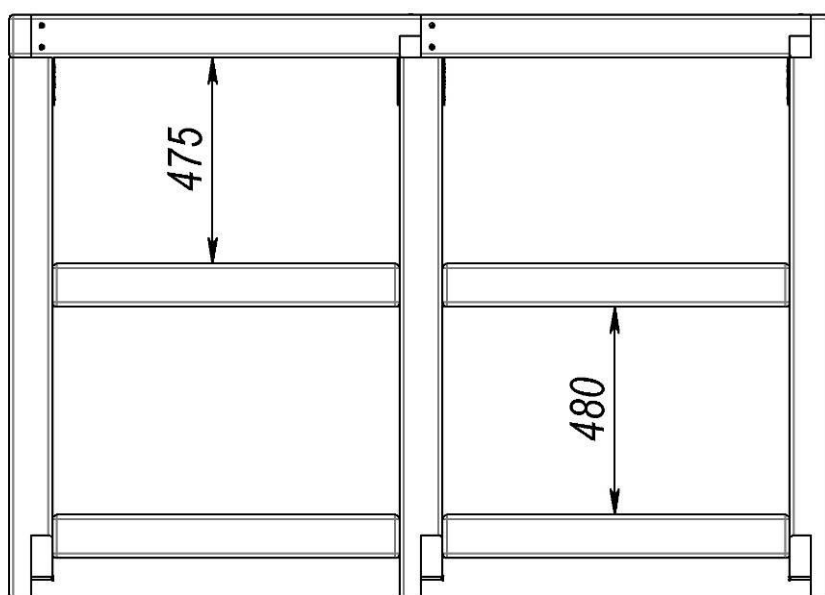


Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	8
2	Site 1x1m (standard)	19	1
3	Double site (1.9x1m)	35	1
4	Step	2	1
5	Step support	2	1
6	Washer 10 GOST6958		14
7	Washer 10 GOST11371		18
8	Cup M8		18
9	Nut M8 GOST5915		18
10	Cap M8		18
11	Screw with drill 4.8x32 DIN7504P		4
12	Screw 6.0x60 SPAX T-STAR plus (univers.)		8
13	Rack 2.25m	13	2
14	Beam 1.6m (mortise 0.7m)	9	2
15	Beam 3m (mortise 1.2)	17	2
16	Beam 3m (mortise 1.2)	17	2
17	Lap (0.4x0.9)	5	1
18	Bolt M8*130 GOST7802		10
19	Bolt M8*120 GOST7802		8

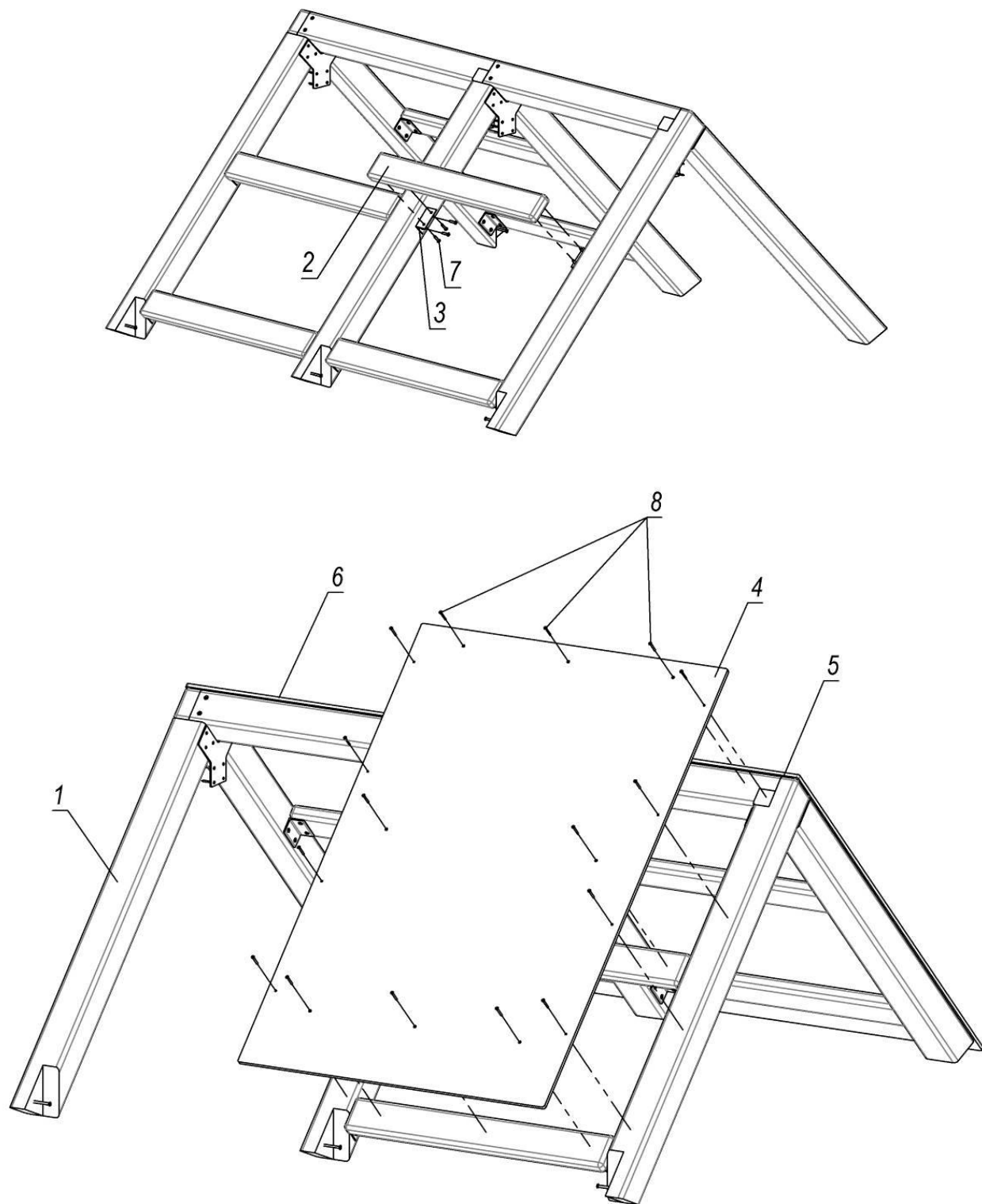
Picture 10 – Triple tower. Tower is located under №7 on pic 1



Pos.	Name	Weight, kg	Q-ty
1	Rear pediment	7	4
2	Front pediment	7	2
3	Ridge (100x100x900)	5	2
4	Two-sided angle bar		4
5	Screw 4x40 GOST1145		40
6	Screw 6x90 GOST1145		18

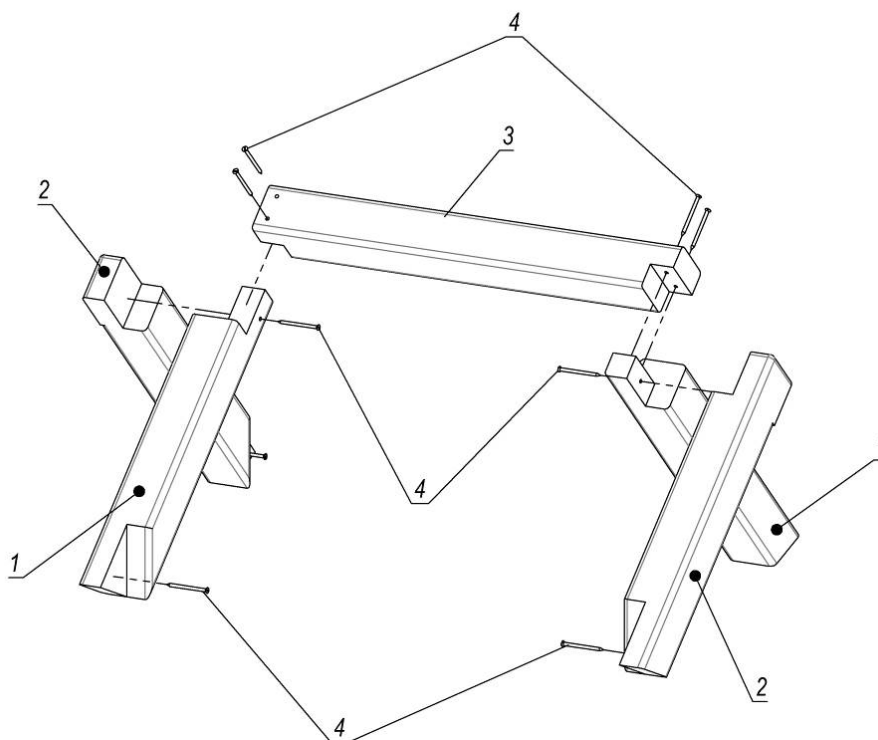


Picture 11 – Assembly scheme of big roof

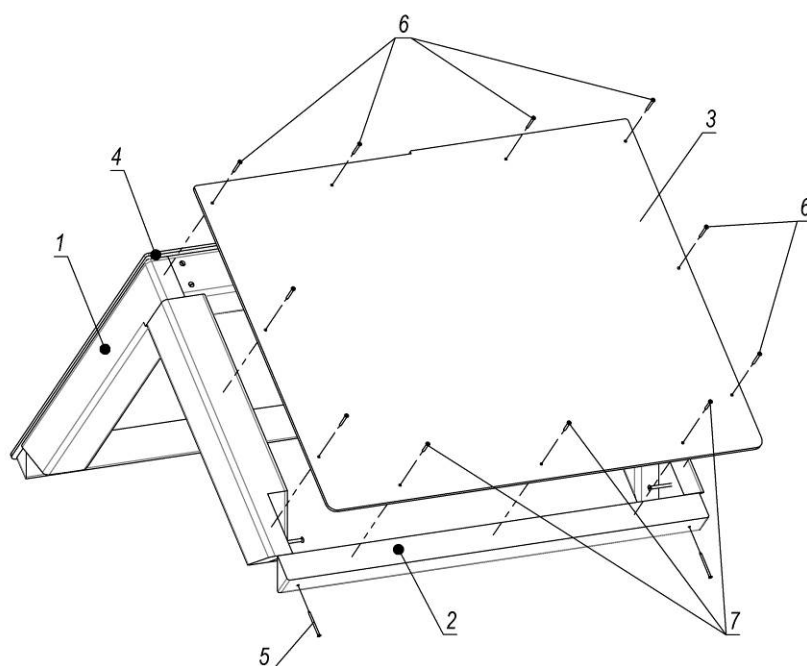


Pos.	Name	Weight, kg	Q-ty
1	Roof 2x2m (base)	56	1
2	Support	2	6
3	Angle 80 mm		12
4	Roof slope (950x1400)	14	1
5	Roof slope (950x1400)	14	1
6	Roof slope (950x1400)	14	1
7	Screw 6x35 GOST1145		48
8	Screw 4x40 GOST1144		48

Picture 12 – Completeness of big roof with window

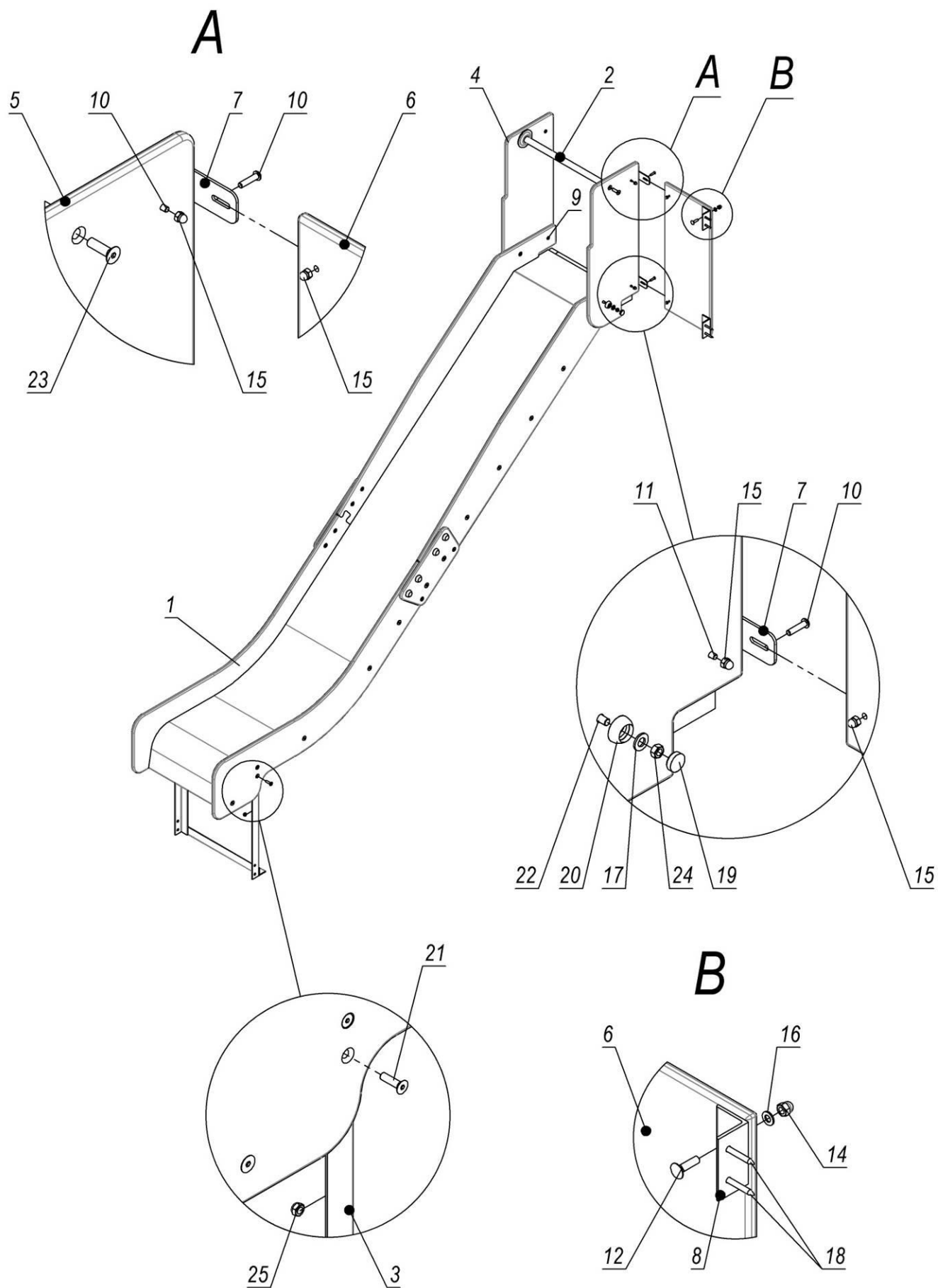


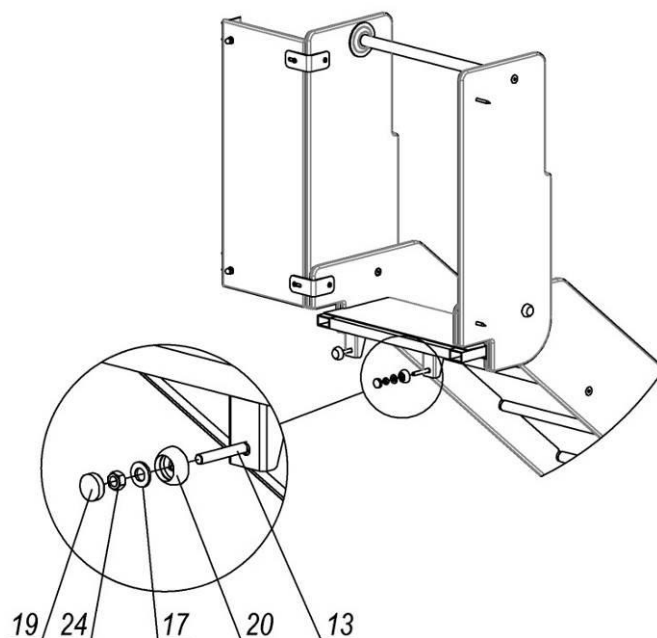
Pos.	Name	Weight, kg	Q-ty
1	Rear pediment		2
2	Front pediment		2
3	Ridge (100x100x900)	5	1
4	Screw 6x90 GOST1145		10



Pos.	Name	Weight, kg	Q-ty
1	Roof	19	1
2	Bar 970mm		2
3	Roof slope (775x1000)	5	1
4	Roof slope (775x1000)	5	1
5	Screw 4x60 GOST1145		4
6	Screw 4x40 GOST1144		16
7	Screw 4x30 GOST1144		6

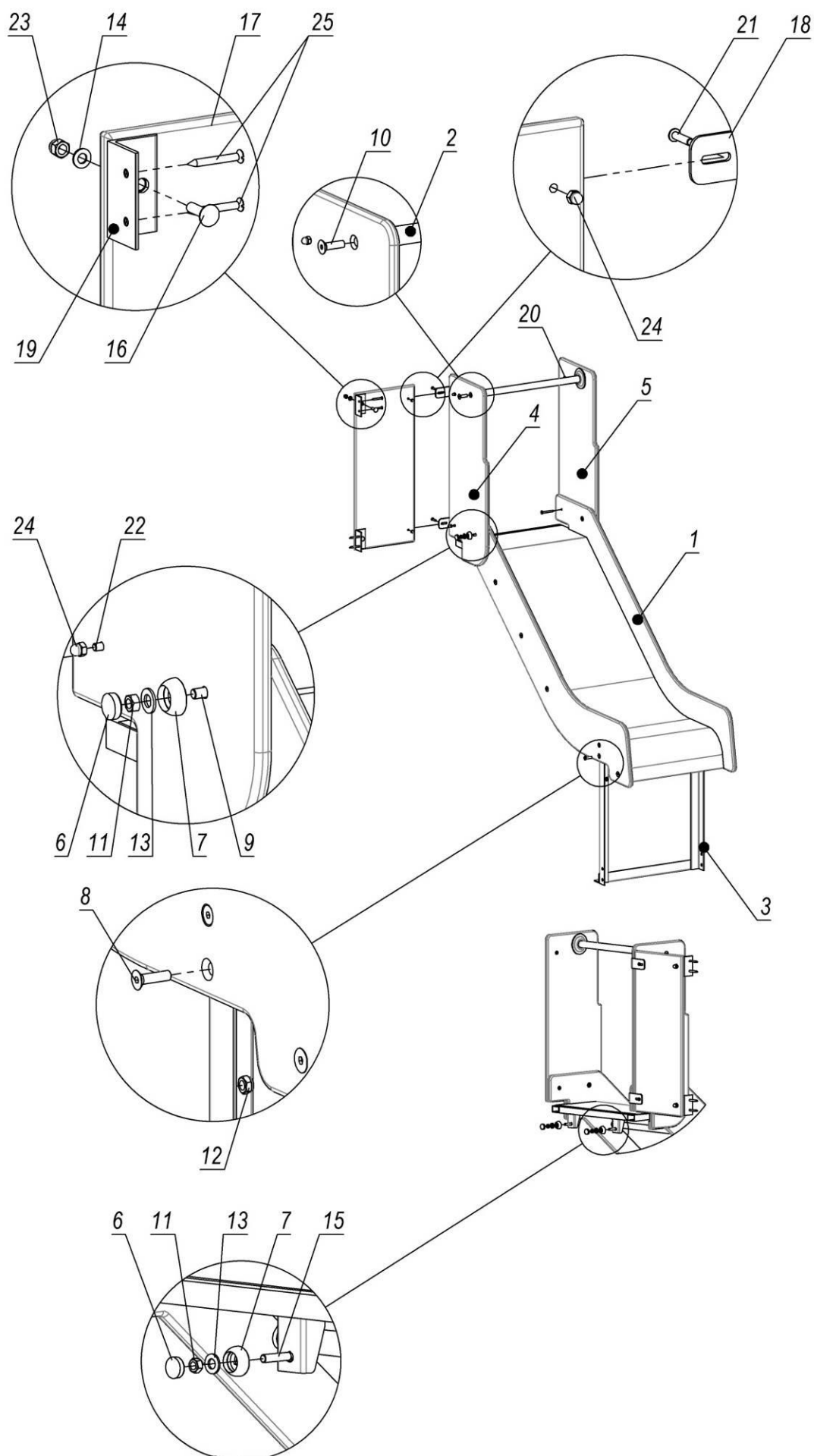
Picture 13 – Roof assembly scheme





<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Slide 1.5m	44	1
2	Brace rod 493mm	1	1
3	Slide embedded element	5	1
4	Upper right sidewall	3	1
5	Upper left sidewall	3	1
6	Lap	3	1
7	Slide angle bar		2
8	Big angle bar		2
9	Screw 6.0x60 SPAX T-STAR plus (univers.)		2
10	Stud M6x25 ISO7380		3
11	Stud M6x40 ISO7380		1
12	Bolt M8*30 GOST7802		2
13	Bolt M8*55 GOST7802		2
14	Cap nut M8 DIN1587		2
15	Cap nut M6 DIN1587		4
16	Washer 8 GOST11371		2
17	Washer 10 GOST11371		4
18	Screw 6x50 GOST1145		4
19	Cap M8		4
20	Cup M8		4
21	Stud M8x30 DIN7991		4
22	Stud M8x40 DIN7991		2
23	Stud M10x35 DIN7991		2
24	Nut M8 GOST5915		4
25	Nut M8 DIN985		4

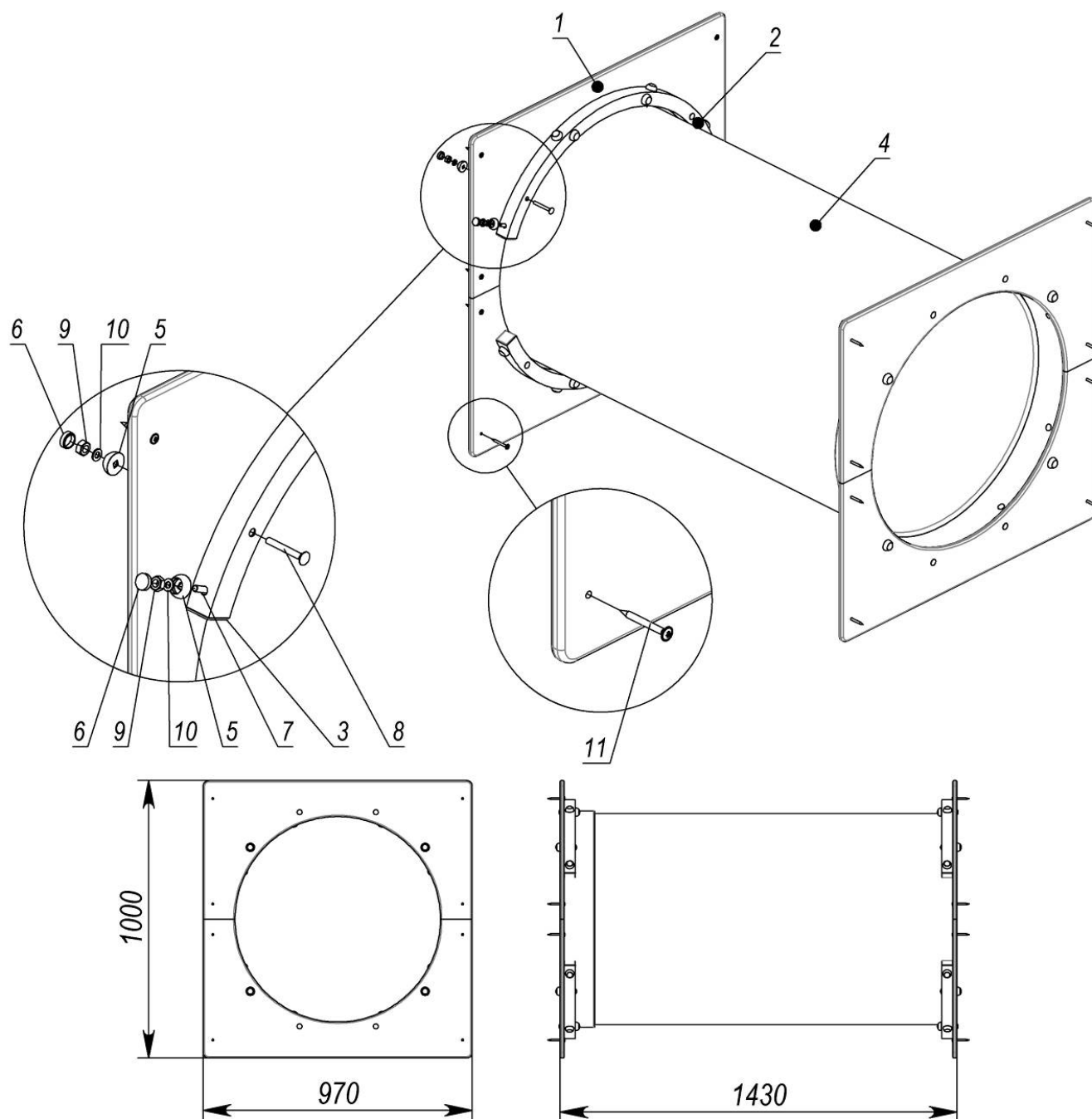
Picture 14 – Completeness of slide 1,5m



Picture 15 – Assembly scheme of slide 0,7m with one partition

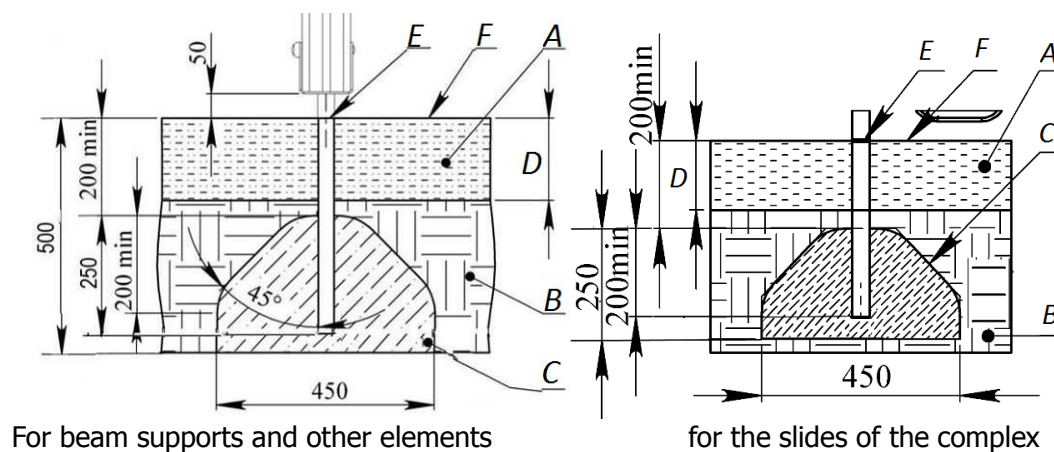
Table №2 – Completeness of slide 0,7m

<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
<i>1</i>	<i>Slide 0.7m</i>	<i>21</i>	<i>1</i>
<i>2</i>	<i>Brace rod 493mm</i>	<i>1</i>	<i>1</i>
<i>3</i>	<i>Slide embedded element</i>	<i>5</i>	<i>1</i>
<i>4</i>	<i>Upper right sidewall</i>	<i>3</i>	<i>1</i>
<i>5</i>	<i>Upper left sidewall</i>	<i>3</i>	<i>1</i>
<i>6</i>	<i>Cap M8</i>		<i>4</i>
<i>7</i>	<i>Cup M8</i>		<i>4</i>
<i>8</i>	<i>Stud M8x30 DIN7991</i>	<i>14</i>	<i>4</i>
<i>9</i>	<i>Stud M8x40 DIN7991</i>	<i>18</i>	<i>2</i>
<i>10</i>	<i>Stud M10x35 DIN7991</i>	<i>26</i>	<i>2</i>
<i>11</i>	<i>Nut M8 GOST5915</i>		<i>4</i>
<i>12</i>	<i>Nut M8 DIN985</i>		<i>4</i>
<i>13</i>	<i>Washer 10 GOST11371</i>		<i>4</i>
<i>14</i>	<i>Washer 8 GOST11371</i>		<i>2</i>
<i>15</i>	<i>Bolt M8*40 GOST7802</i>		<i>2</i>
<i>16</i>	<i>Bolt M8*30 GOST7802</i>		<i>2</i>
<i>17</i>	<i>Partition (275x650)</i>	<i>3</i>	<i>1</i>
<i>18</i>	<i>Slide angle bar</i>		<i>2</i>
<i>19</i>	<i>Big angle bar</i>		<i>2</i>
<i>20</i>	<i>Screw 6.0x60 SPAX T-STAR plus (univers.)</i>		<i>2</i>
<i>21</i>	<i>Stud M6x25 ISO7380</i>		<i>3</i>
<i>22</i>	<i>Stud M6x40 ISO7380</i>		<i>1</i>
<i>23</i>	<i>Cap nut M8 DIN1587</i>		<i>2</i>
<i>24</i>	<i>Cap nut M6 DIN1587</i>		<i>4</i>
<i>25</i>	<i>Screw 6x50 GOST1145</i>		<i>4</i>



Pos.	Name	Weight, kg	Q-ty
1	Entrance	4	4
2	Tunnel half-clamp	2	4
3	Plug 40x40		8
4	Straight tube 760	30	1
5	Cup M8		32
6	Cap M8		32
7	Bolt M8*60 GOST7802		16
8	Bolt M8*65 GOST7802		16
9	Nut M10 GOST5915		32
10	Washer 8 GOST11371		32
11	Screw 6.0x60 SPAX T-STAR plus (univers.)		16

Picture 16 – Assembly scheme of tunnel crossing



A - shock-absorbing coating;

B – soil;

C – concrete;

D- depth of the shock absorbing coating;

E - product level plane;

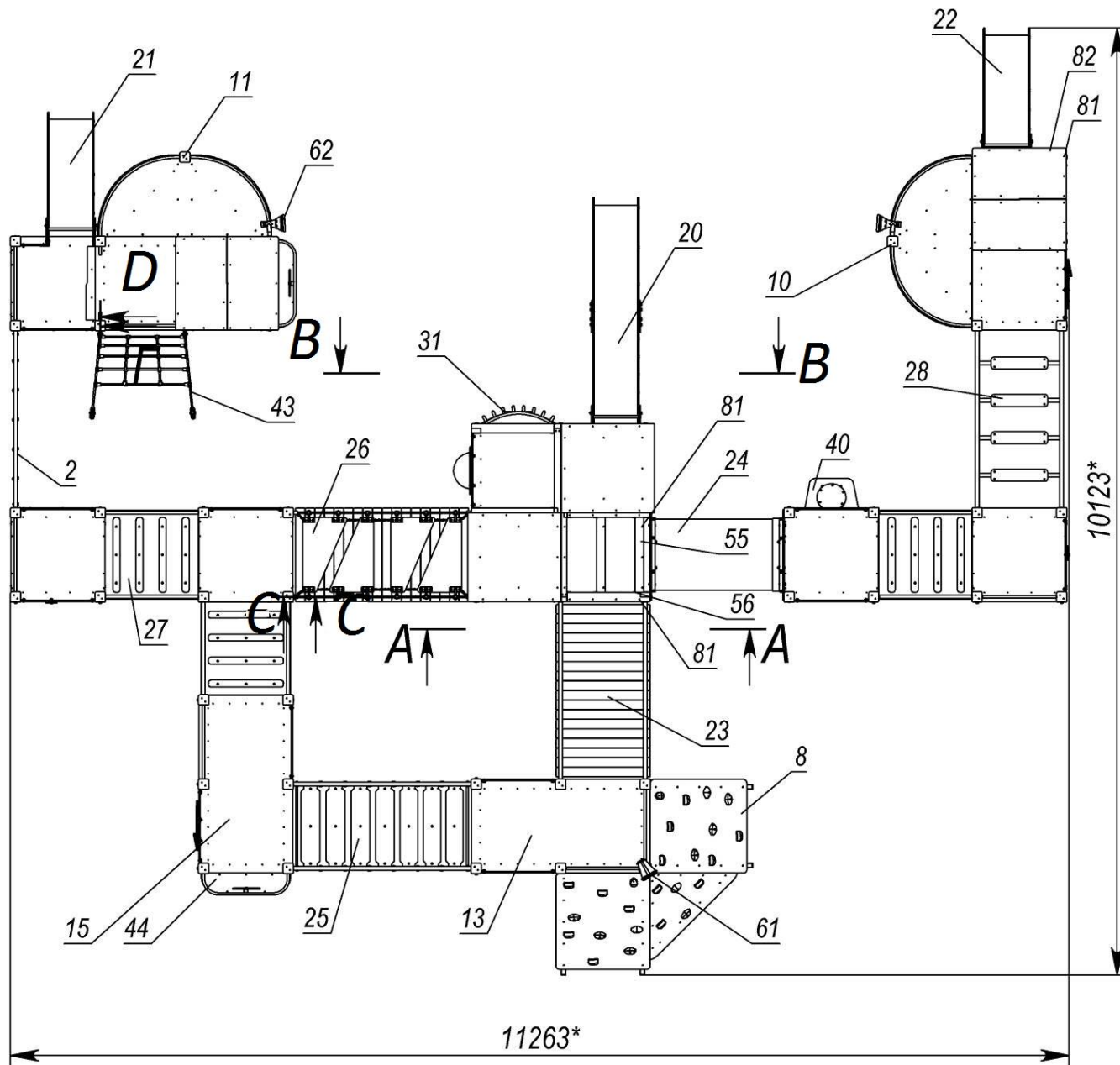
F – game surface.

Examples of impact-absorbing coatings

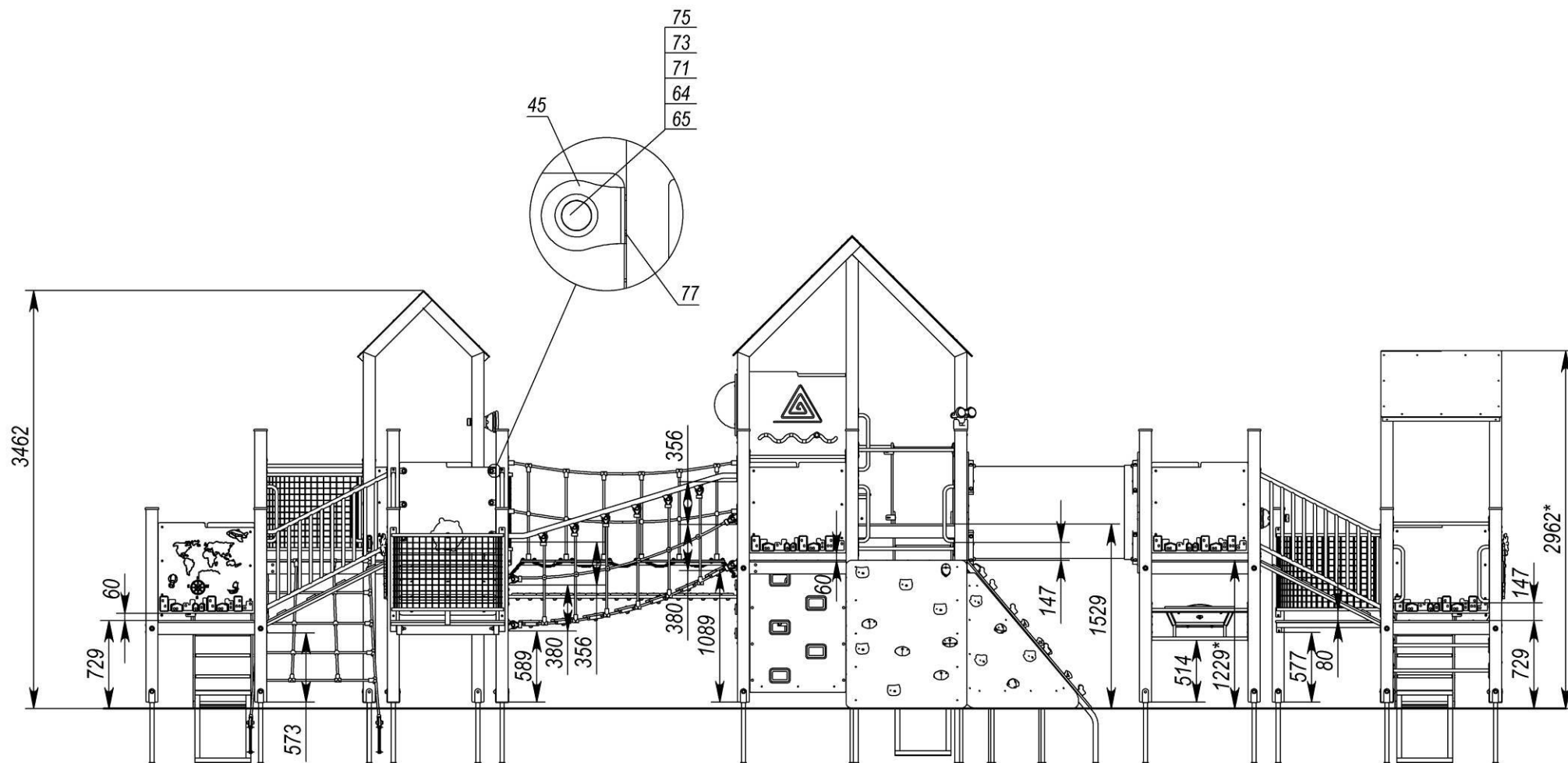
Material ¹	Description	Minimal depth, mm	Height of fall, mm
Turf			≤1000
Tree bark	grain size 20-80 mm	200	≤2000
		300	≤3000
Sawdust	grain size 5-30 mm	200	≤2000
		300	≤3000
Sand ²	grain size 0,2-2 mm	200	≤2000
		300	≤3000
Gravel ²	grain size 2-8 mm	200	≤2000
		300	≤3000
Another material	HIC tested according to EN1177	According to the test	According to the test
1. Materials specially prepared for playgrounds. 2. There should not be any clay inclusions. The grain size is obtained by sieving through a sieve as in EN933-1.			

Picture 17 – Concreting scheme

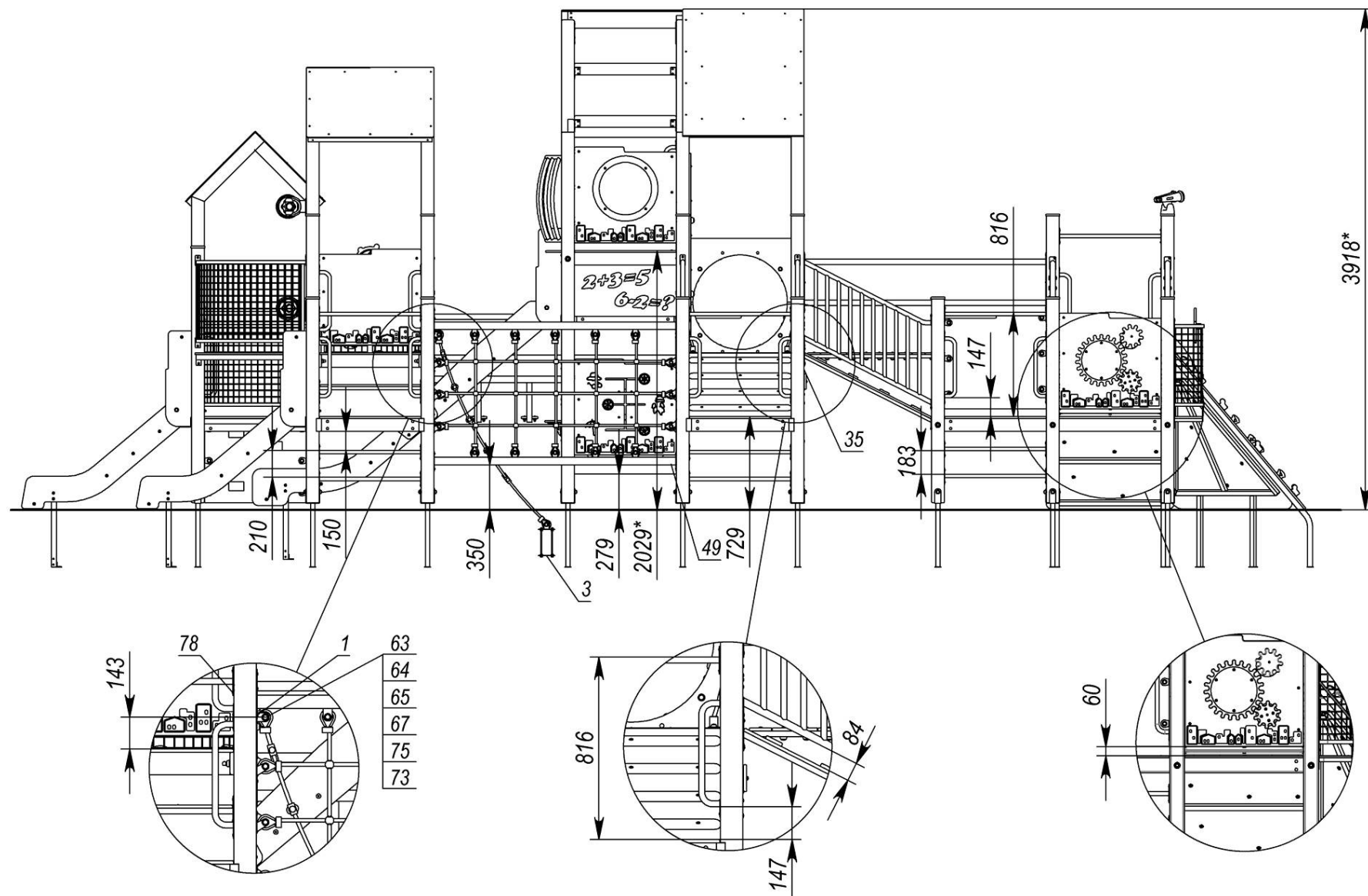
Appendix



Picture 18 – Overall dimensions of the complex

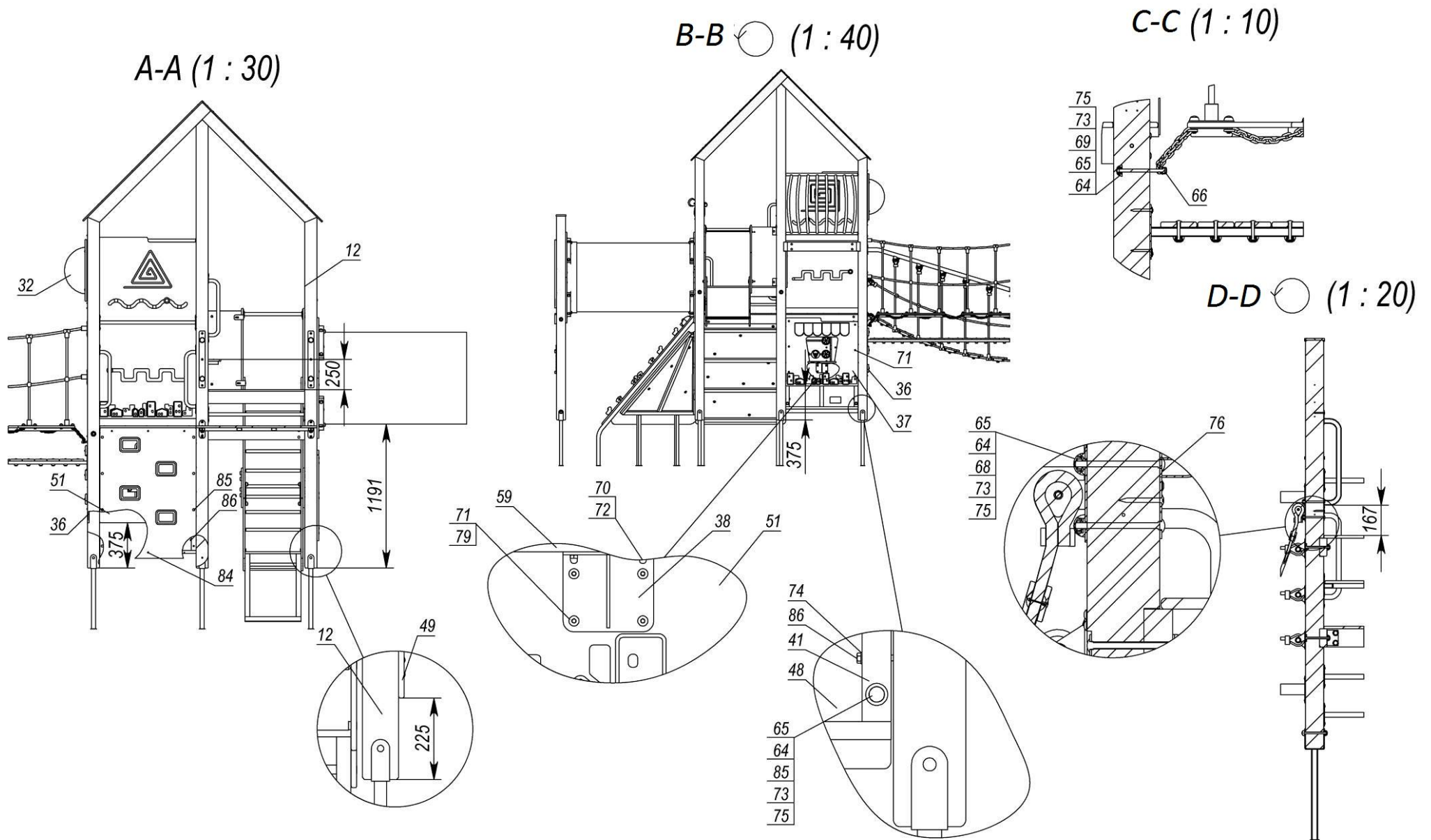


Picture 19

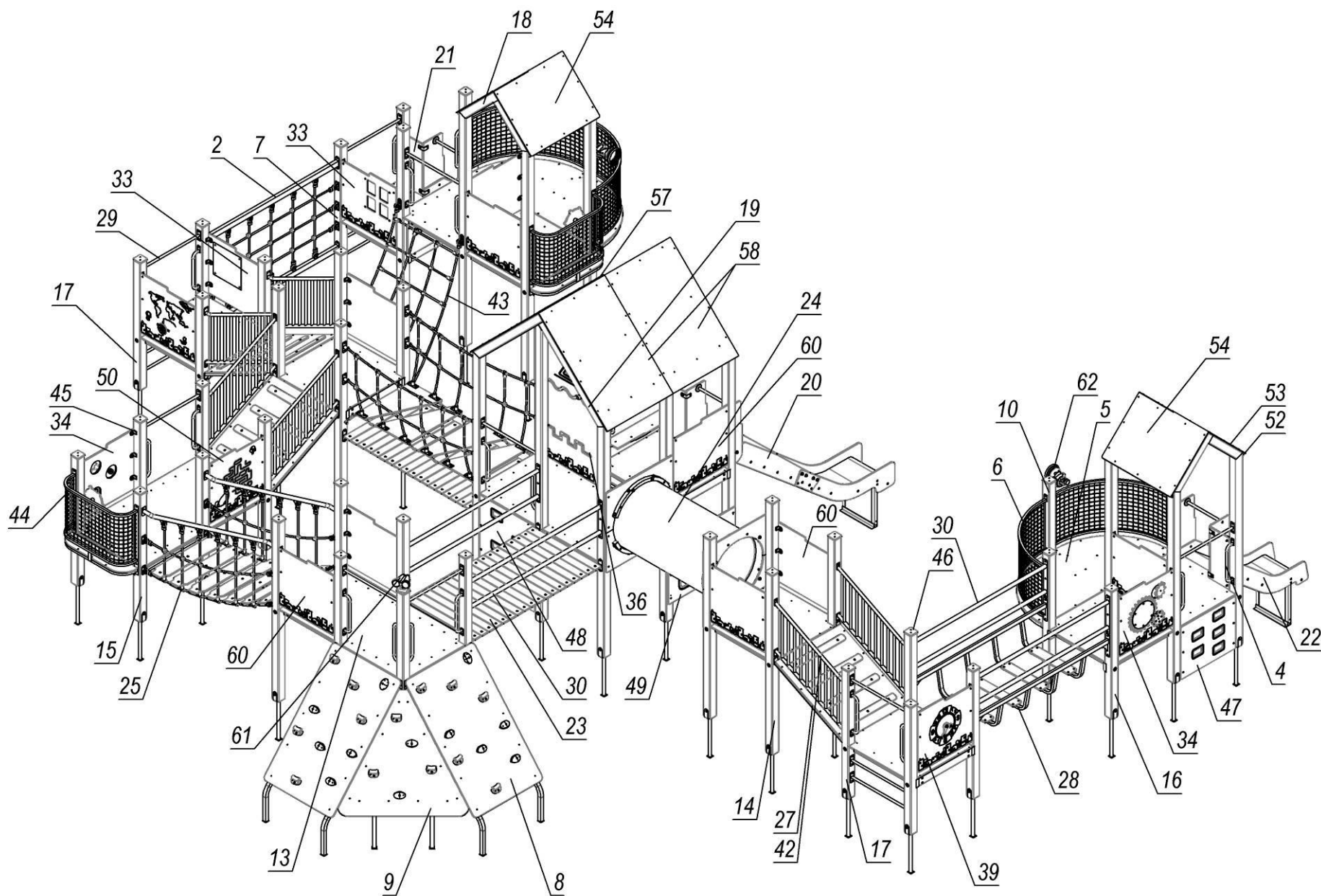


1. To fasten the elements of the complex for screws pos. 78, drill holes with a diameter of 3-5 mm in place.
2. Unspecified fasteners of the panels of the complex pos. 45.
3. **Dimensions are indicated for all similar elements in this location in other places of the complex.

Picture 20



Picture 21



Picture 22

Pos.	Name	Weight, kg	Q-ty	Pos.	Name	Weight, kg	Q-ty
1	Rope bracket		2	44	Balcony (0.9m) with steering wheel	16	2
2	Rope mesh assembly	22	1	45	Corner bracket 40x40		126
3	Rope embedded element		2	46	Cap on bar		34
4	Handle		21	47	Panel "Manhole"	7	1
5	Radius site	34	2	48	Panel "Manhole"	12	1
6	Mesh corner fencing	9	4	49	Panel "Breadth"	5	1
7	Triple tower	190	1	50	Panel "Labyrinth"	8	1
8	Corner climber's ascent (1.5m)	45	2	51	Panel "Showcase"	7	1
9	Triangular climber's board	28	1	52	Bar 970mm		4
10	Beam assembly		1	53	Roof slope (775x1000)	5	2
11	Beam assembly	14	1	54	Roof slope (775x1000)	5	2
12	Big tower (1.2-2m)	287	1	55	Support	2	6
13	Double tower 1.2m	124	1	56	Angle bar 80mm		12
14	Tower 1.2m 1x1	79	2	57	Roof slope (950x1400)	14	1
15	Double tower 0.7m	101	1	58	Roof slope (950x1400)	14	2
16	Double tower 0.7m	121	1	59	Table with numbers		1
17	Tower 0.7m beam 2.5m	63	2	60	Shield fencing		9
18	Roof	19	2	61	Binoculars		1
19	Roof 2x2m (base)	56	1	62	Megaphone	4	2
20	Slide 1.5m assembly	60	1	63	Tube d12x1.5 GOST10704, L=22mm		4
21	Slide 0.7m assembly	37	1	64	Cup M8		150
22	Slide 0.7m assembly	37	1	65	Cap M8		150
23	Straight bridge	39	2	66	Cap S13		4
24	Tunnel crossing (Ukrhimplast)	56	1	67	Bolt M8*45 GOST7798		4
25	Rope bridge (drop 0.5m)	58	1	68	Bolt M8*120 GOST7802		4
26	Rope walkway 1.9m	36	1	69	Bolt M8*120 DIN931		4
27	Inclined walkway	26	3	70	Stud M6x25 DIN7991		8
28	Stepped bridge	33	1	71	Stud M8x30 ISO7380		130
29	Brace rod 0.8m	1	17	72	Cap nut M6 DIN1587		8
30	Straight railings	12	4	73	Nut M8 GOST5915		146
31	Arched balcony (0.9m)	11	1	74	Washer 8 GOST11371		26
32	Panel with porthole	9	1	75	Washer 10 GOST11371		152
33	Panel with windows	8	2	76	Washer 12 GOST6958		4
34	Panel "Gear wheels" 0.75m assembly	12	2	77	Screw 4x40 GOST1145		320
35	Panel "World map" assembly	8	1	78	Screw 6.0x60 SPAX T-STAR plus (univers.)		318
36	Panel "Riddle" assembly	9	1	79	Cap nut M8 DIN1587		4
37	Panel "Sweets" assembly	10	1	80	Screw 4x60 GOST1145		8
38	Showcase angle bar		2	81	Screw 4x40 GOST1144		80
39	Panel "Clock" assembly	8	1	82	Screw 4x30 GOST1144		12
40	Attachment "Labyrinth" assembly	11	1	83	Screw 6x35 GOST1145		48
41	Manhole frame	10	1	84	Screw with drill 4.8x32 DIN7504P		6
42	Handrail	14	6	85	Bolt M8*65 GOST7802		8
43	Rope ladder 1.2m	5	1	86	Screw 8x90 GOST11473		10

Picture 23