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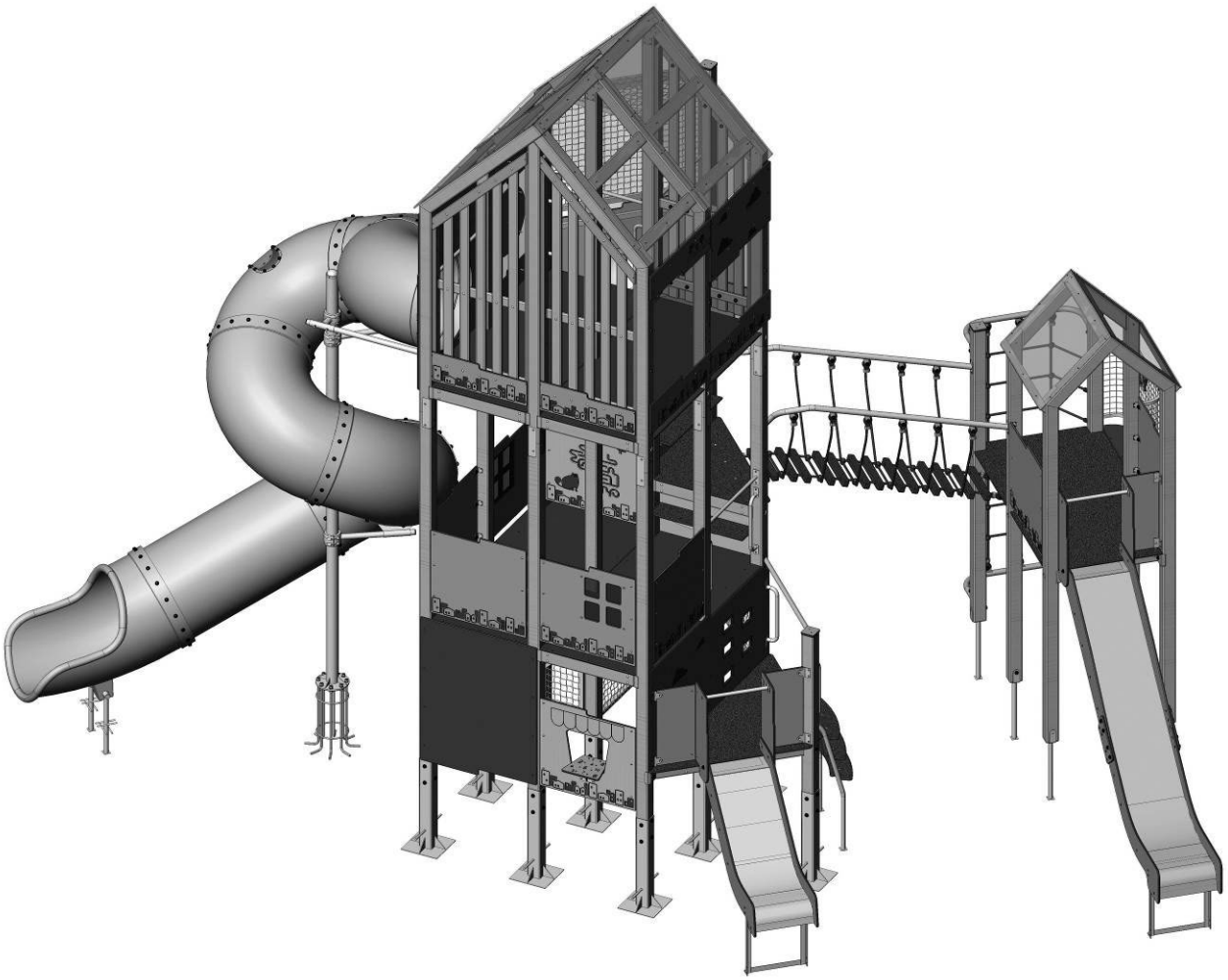
DATA SHEET

Game Complex «Big City-9» TE939



CONTENT

FOR NOTES

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	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 damage.

Storage information

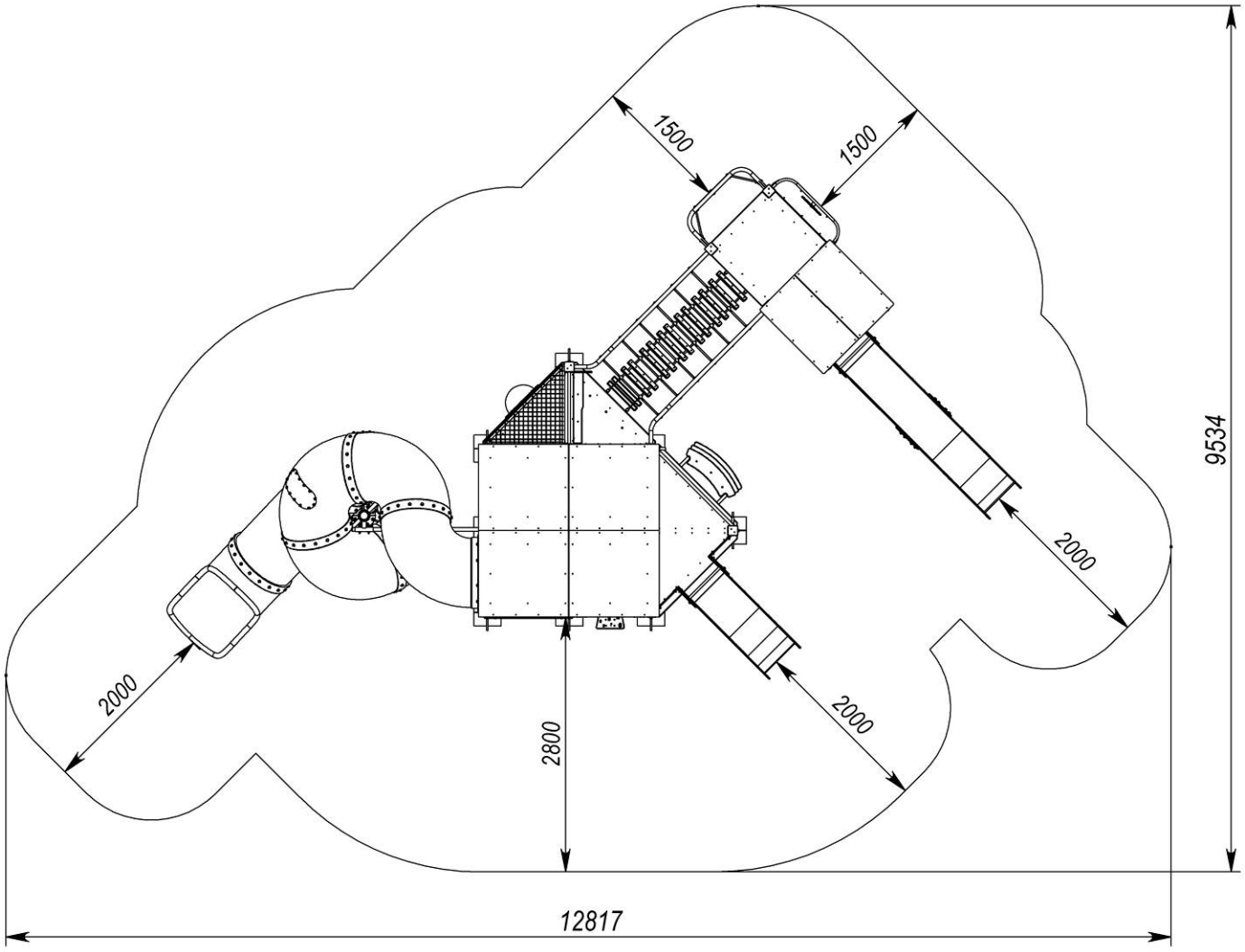
Date		Product storage conditions	Full name	Signature
Putting into storage	Removal from storage			

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.

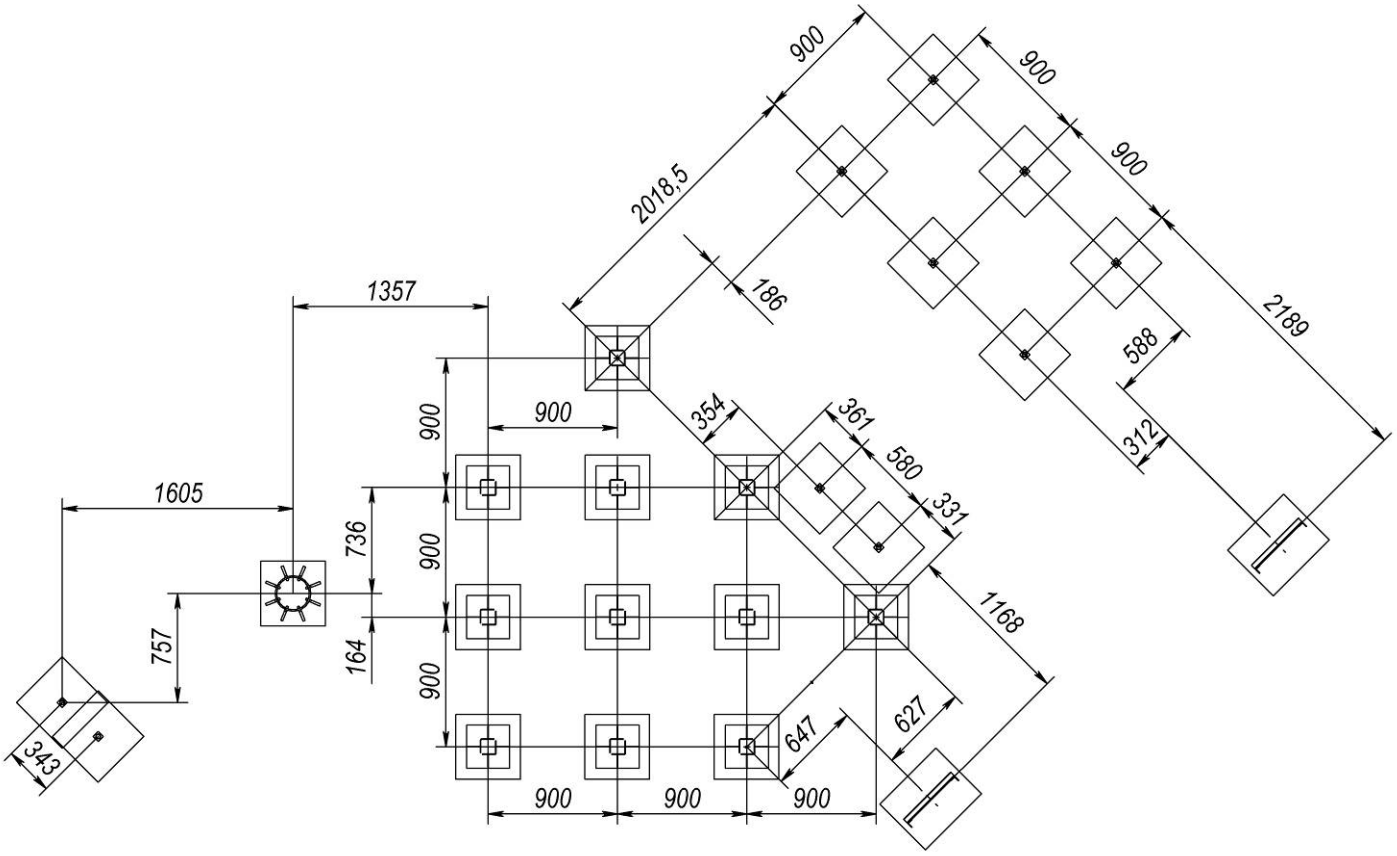
The equipment does not contain harmful impurities and materials that can harm your health and is not subject to special recycling.

6. TECHNICAL DATA AND ASSEMBLY SCHEMES

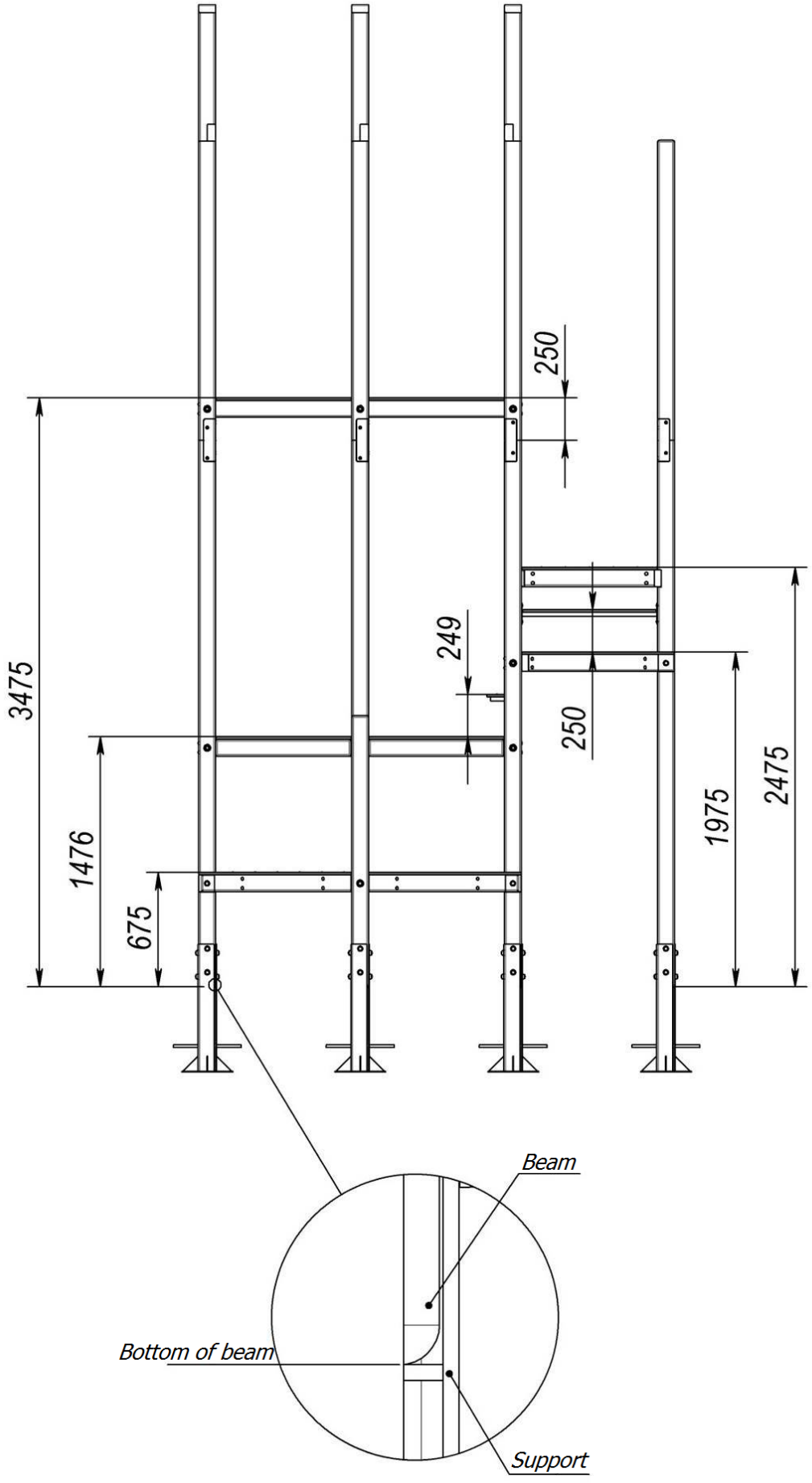
Length, mm	**9398**
Width, mm	**5625**
Height, mm	**6008**
Weight, kg	**1960**
Fall height, mm	**3529**
Age restrictions, years	**to 12**
Weight limits, kg	**Up to 60**



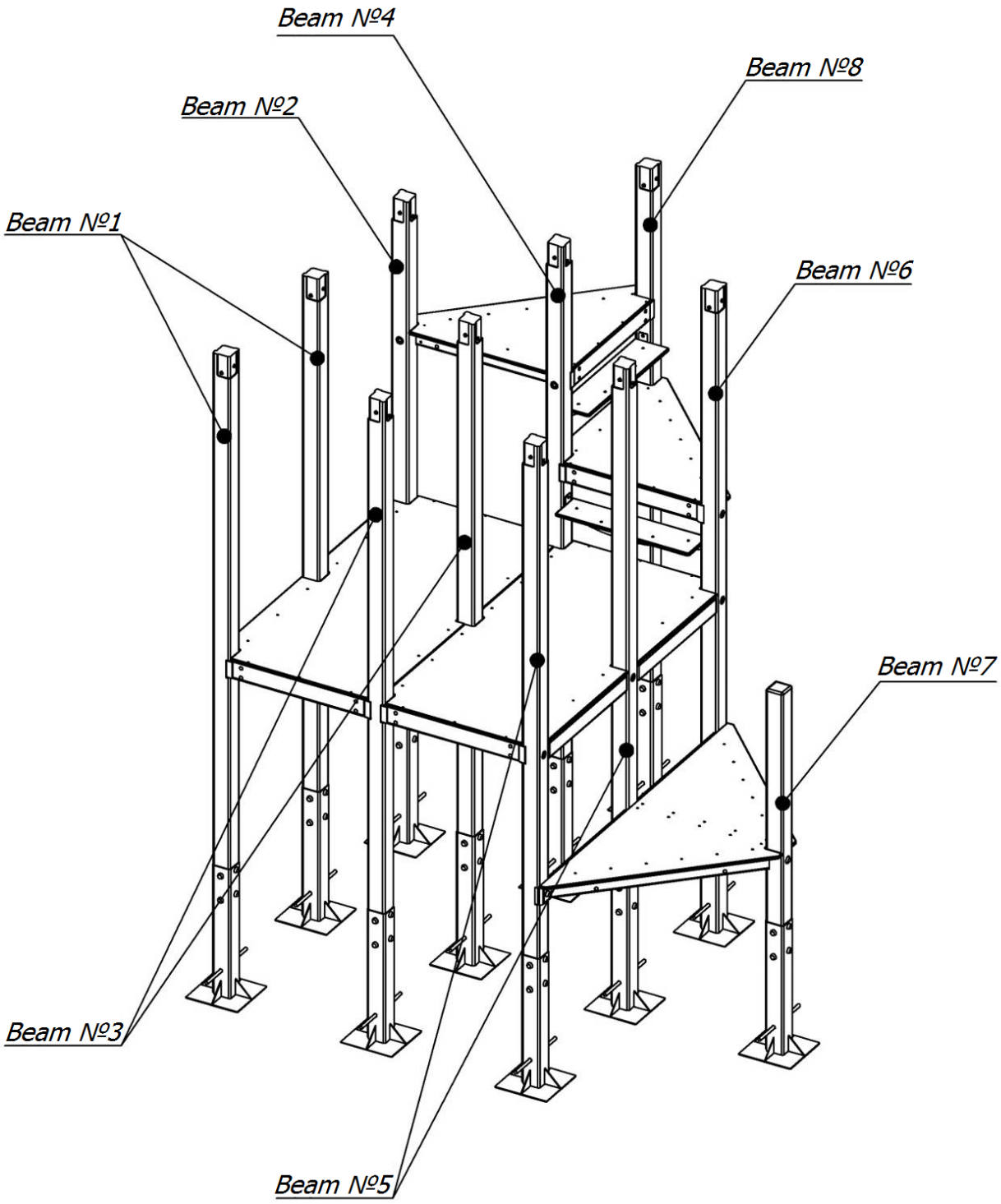
Picture 1 – Landing zone



Picture 2 - Layout of foundations

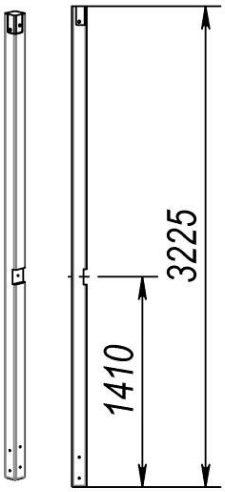


Picture 3 - Layout of sites

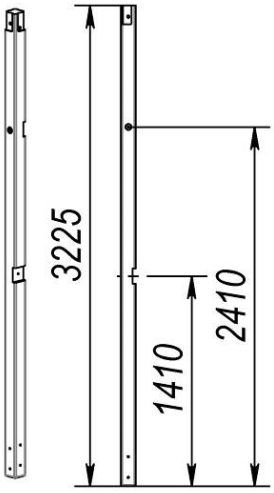


Picture 4 - Layout of beams of lower level

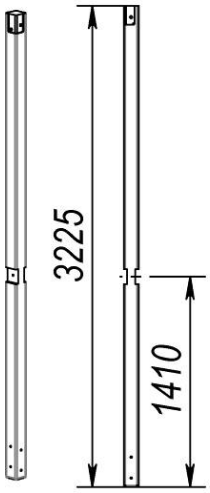
Beam №1



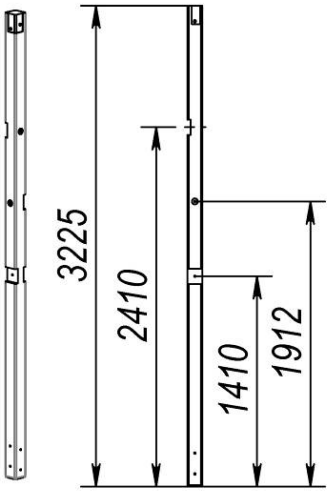
Beam №2



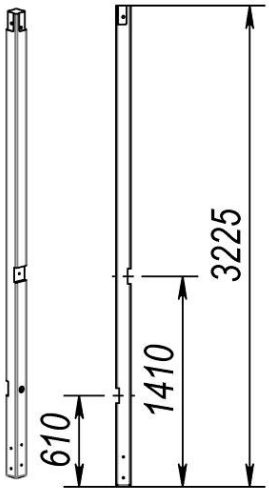
Beam №3



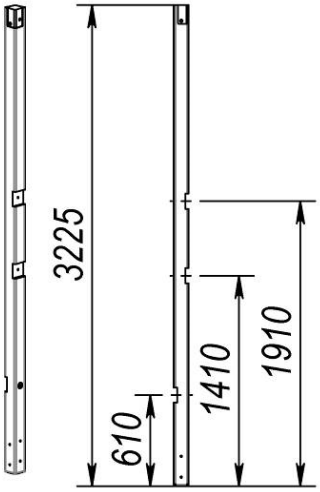
Beam №4



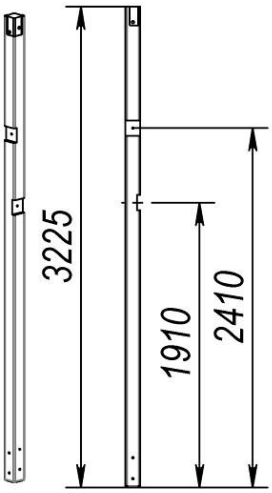
Beam №5



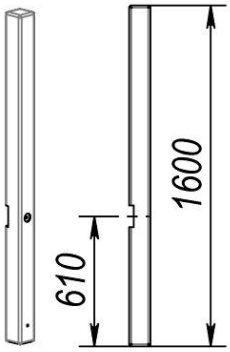
Beam №6



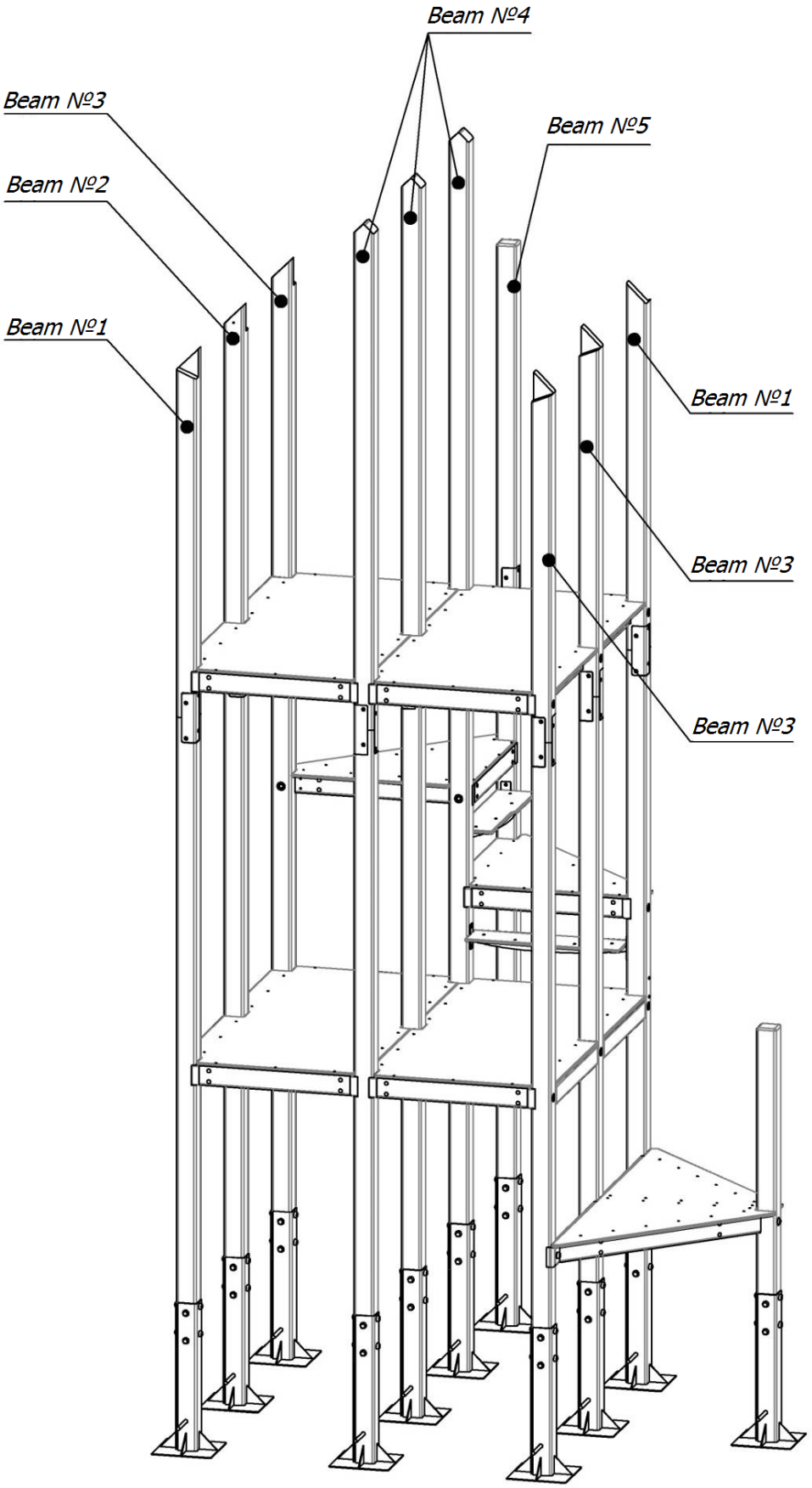
Beam №8



Beam №7

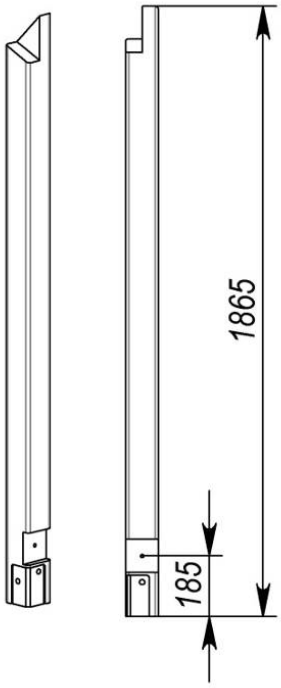


Picture 5 – Beams (1-8)

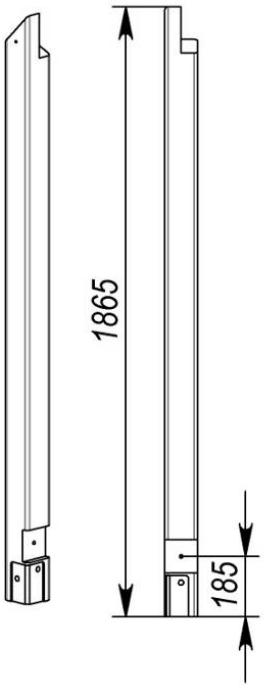


Picture 6 – Beams layout of upper level

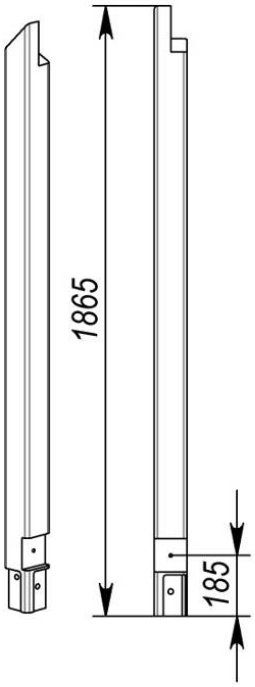
Beam №1



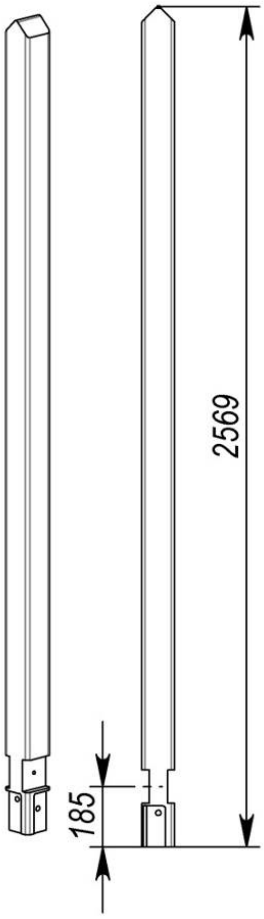
Beam №2



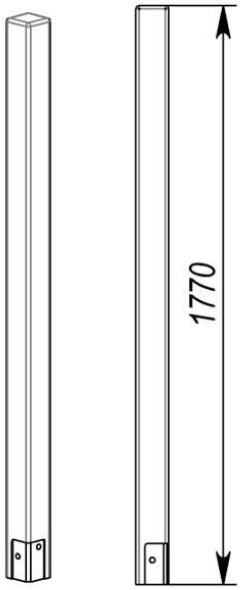
Beam №3



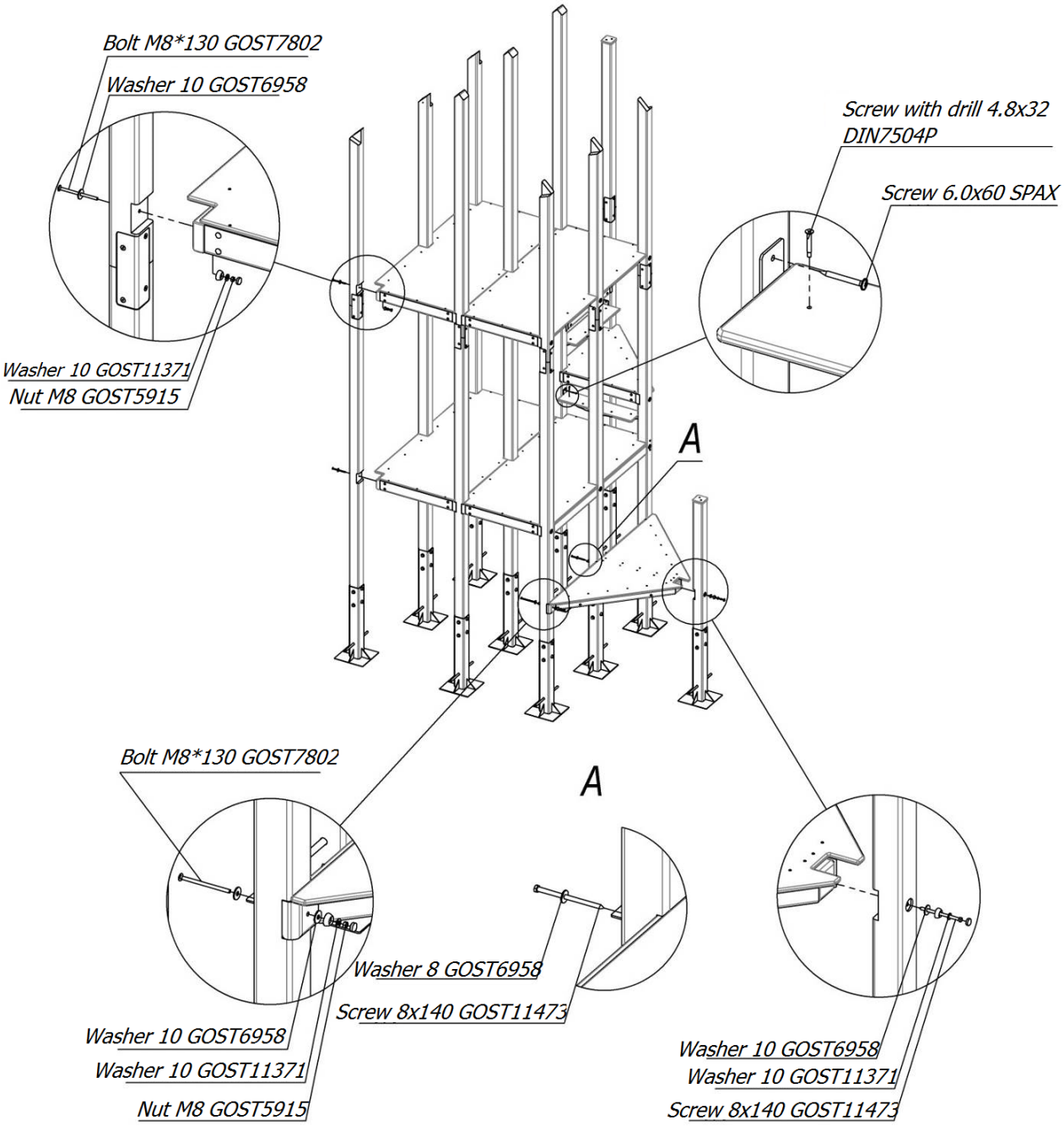
Beam №4



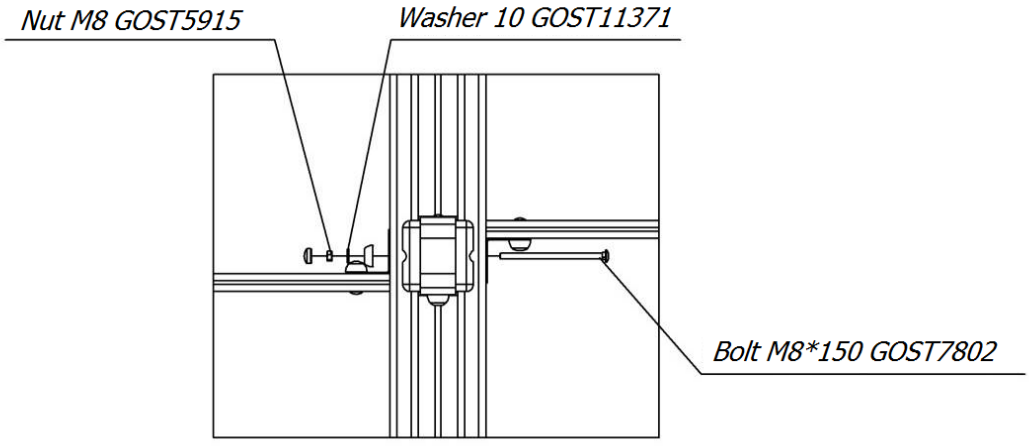
Beam №5



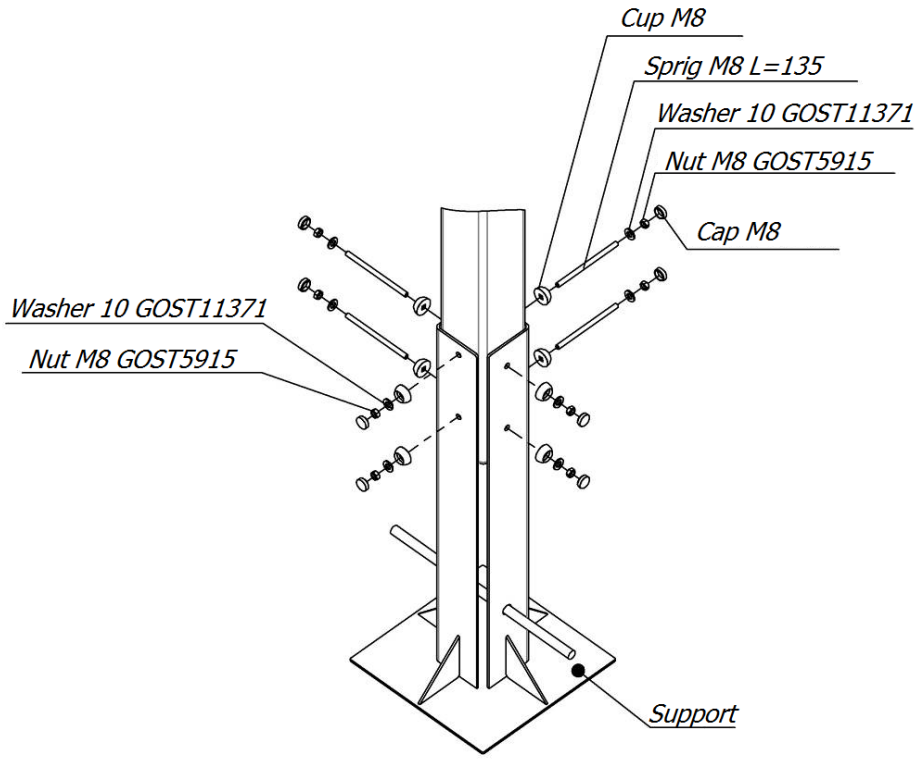
Picture 7 – Beams (1-5)



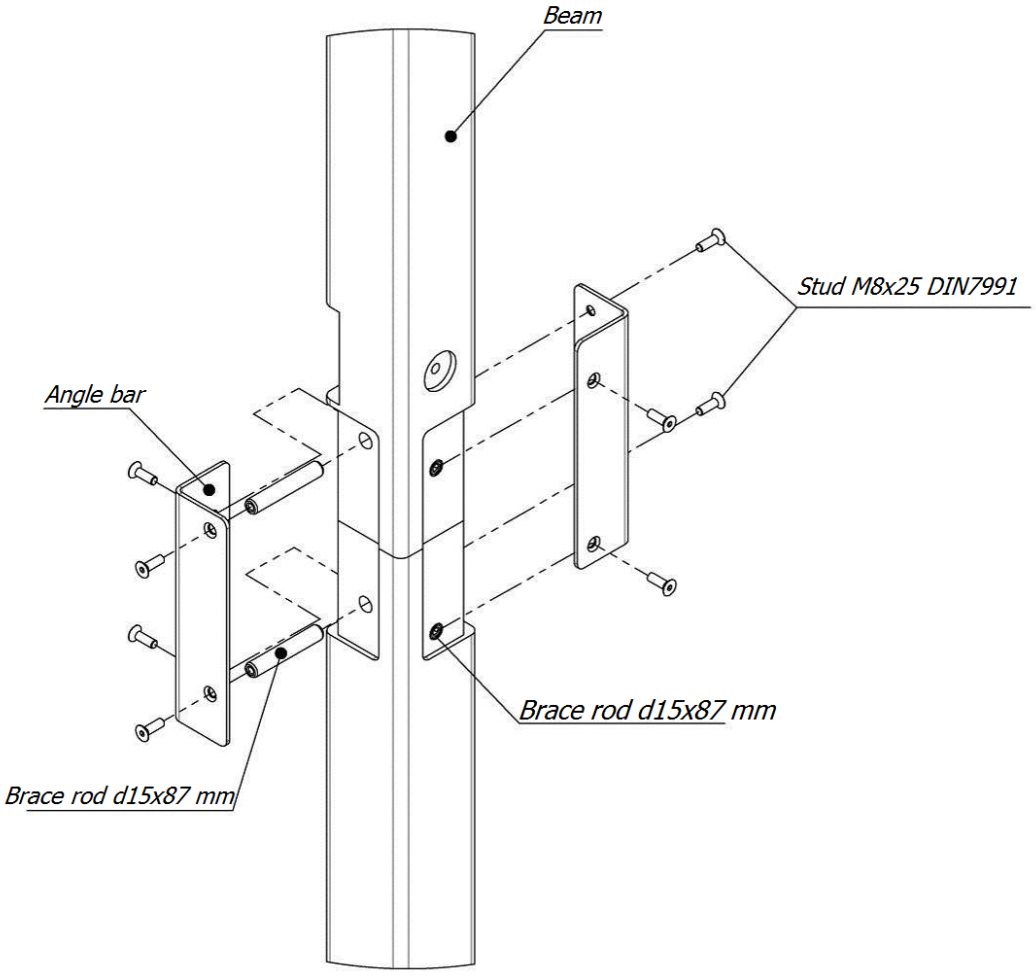
Bottom view. Connection of the middle beams with the site



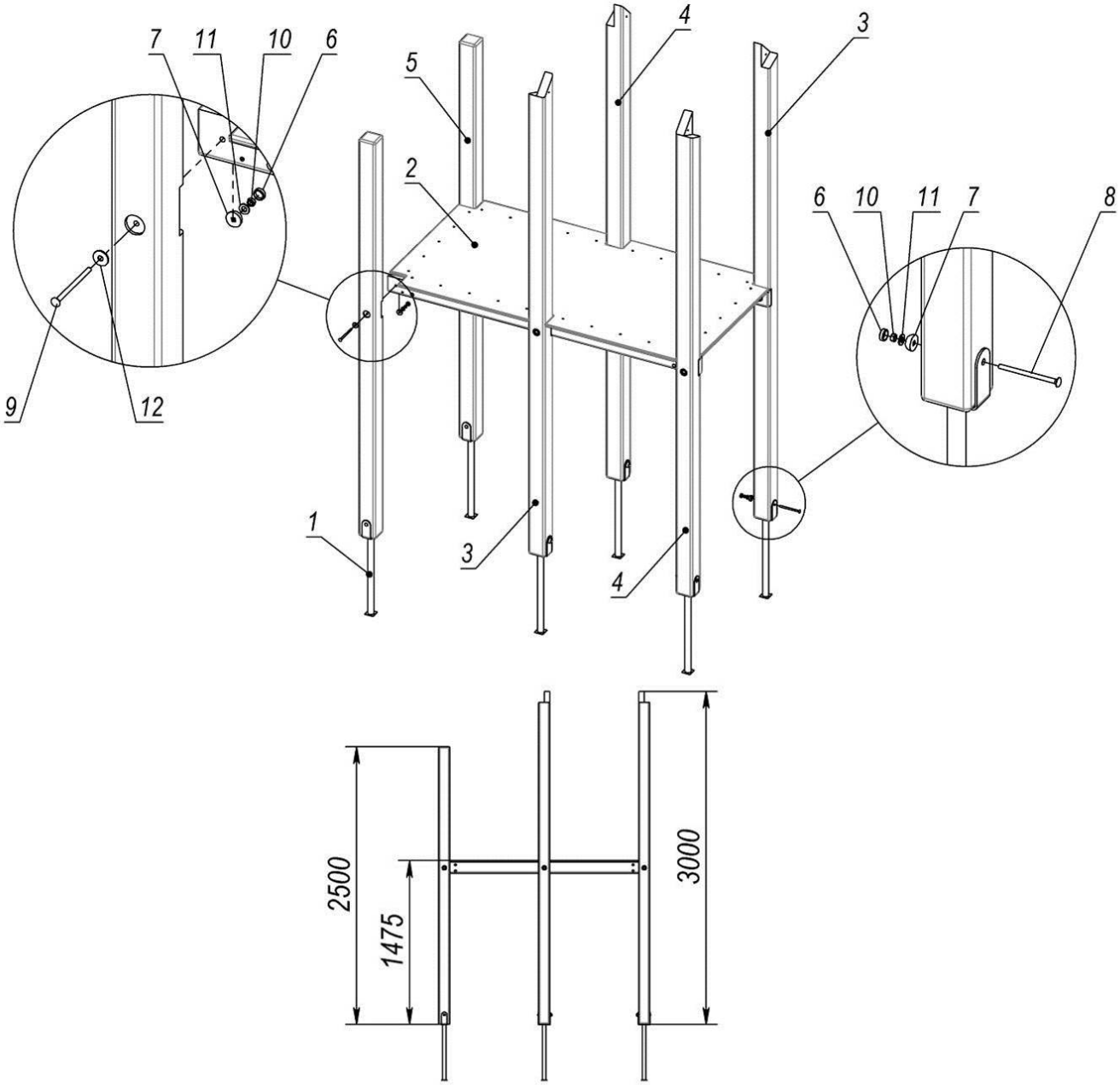
Picture 8 – Assembly scheme of the multi-level tower. (Additional assembly scheme is in the Appendix)



Picture 9 – Connecting scheme of the support with beam

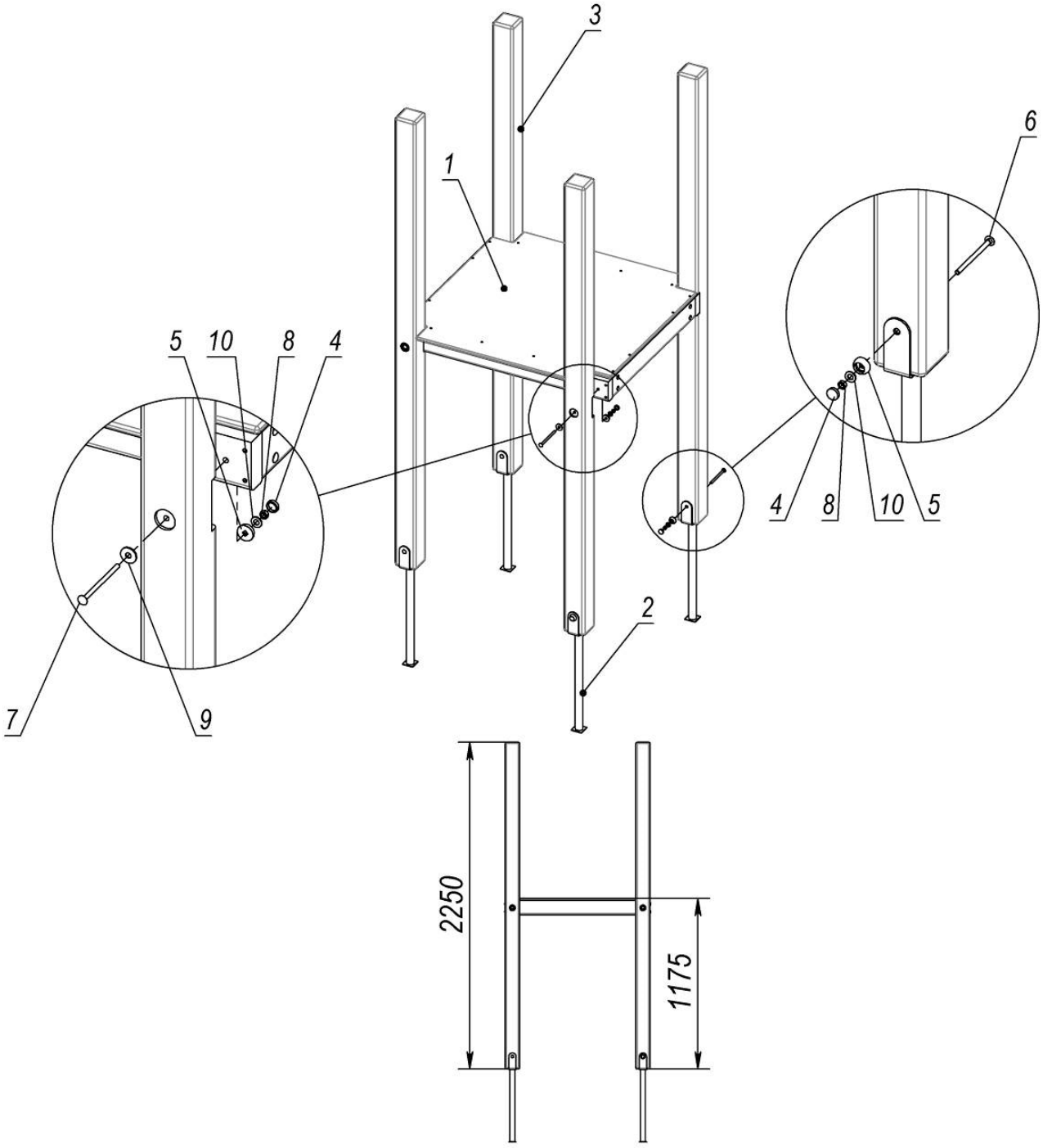


Picture 10 – Connecting scheme of two beams



Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	6
2	Double site (1.9x1m)	35	1
3	Beam 3m (groove 1.5m)	17	2
4	Beam 3m (groove 1.5m)	17	2
5	Beam 2.5m (groove 1.5m)	15	2
6	Cap M8		12
7	Cup M8		12
8	Bolt M8*120 GOST7802		6
9	Bolt M8*130 GOST7802		6
10	Nut M8 GOST5915		12
11	Washer 10 GOST11371		12
12	Washer 10 GOST6958		8

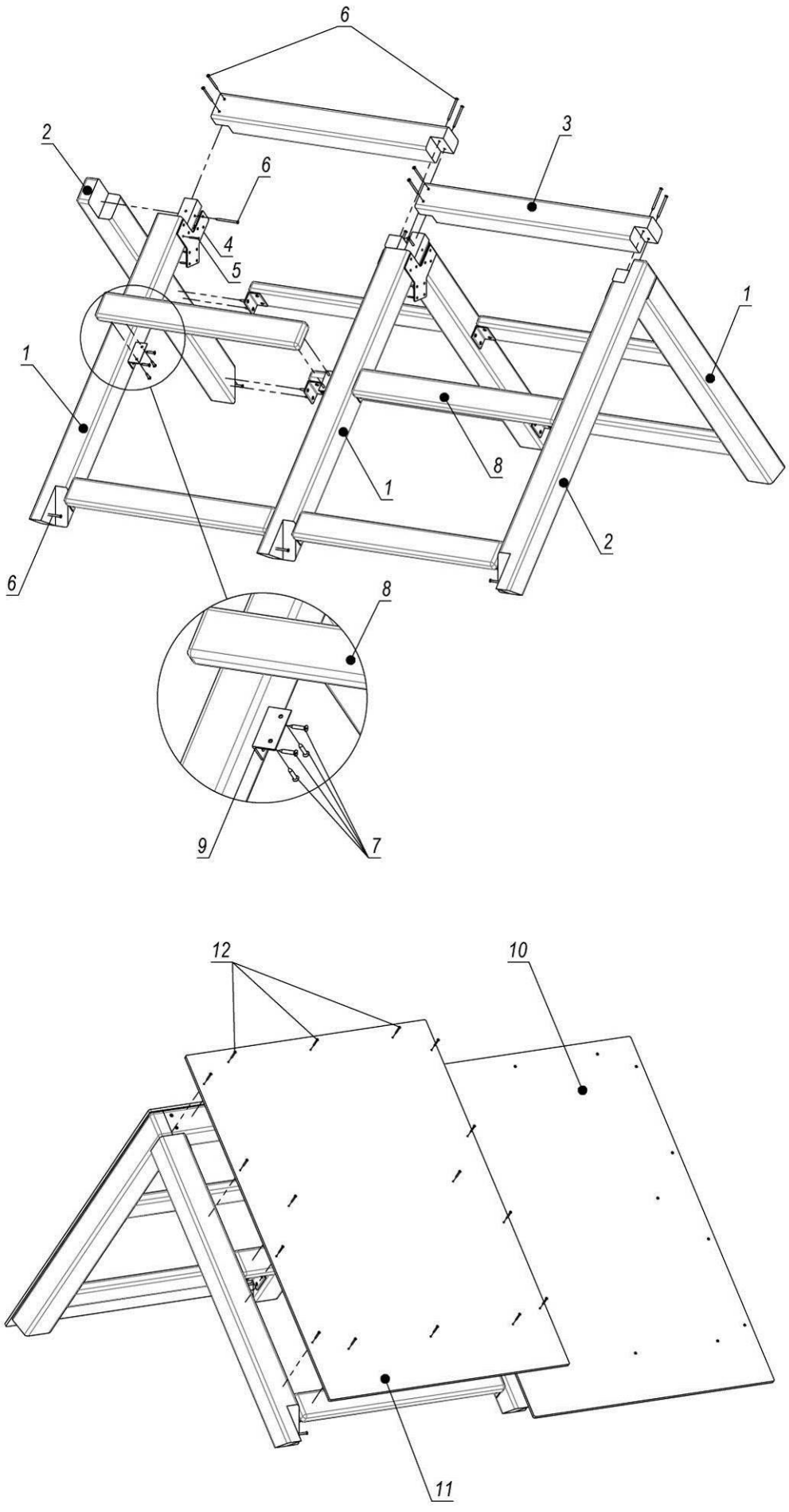
Picture 11 – Double tower 1,5m



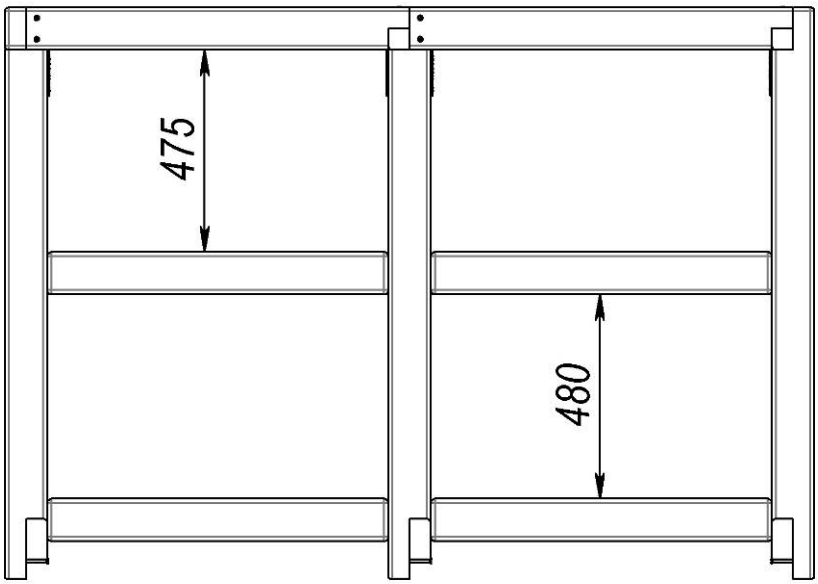
Pos.	Name	Weight, kg	Q-ty
1	Site 1x1 m (standard)	19	1
2	Beam support	2	4
3	Beam 2.25 m	13	4
4	Cap M8		8
5	Cup M8		8
6	Bolt M8*120 GOST7802		4
7	Bolt M8*130 GOST7802		4
8	Nut M8 GOST5915		8
9	Washer 10 GOST6958		4
10	Washer 10 GOST11371		8

Picture 12 – Tower 1,2m 1x1

Assembly scheme of the roof for the multi-level tower

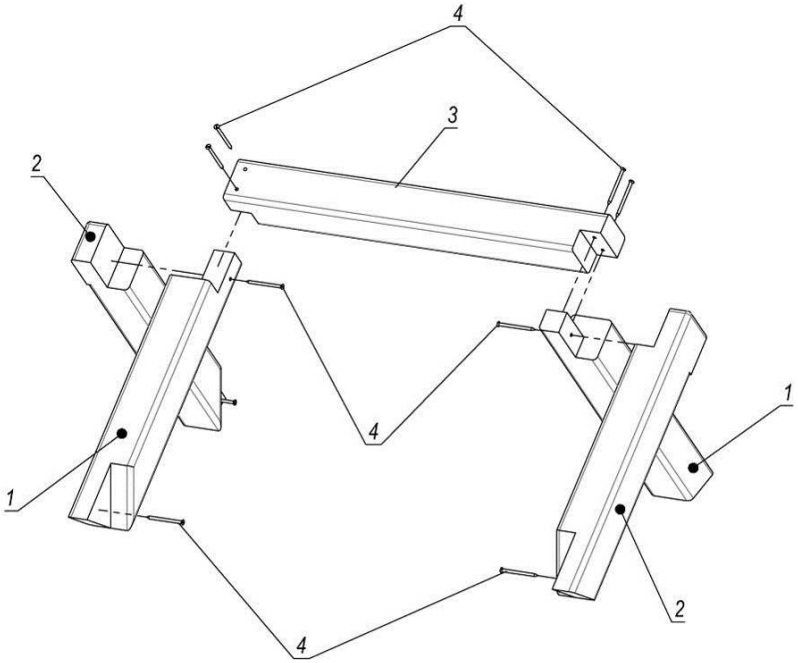


Picture 13

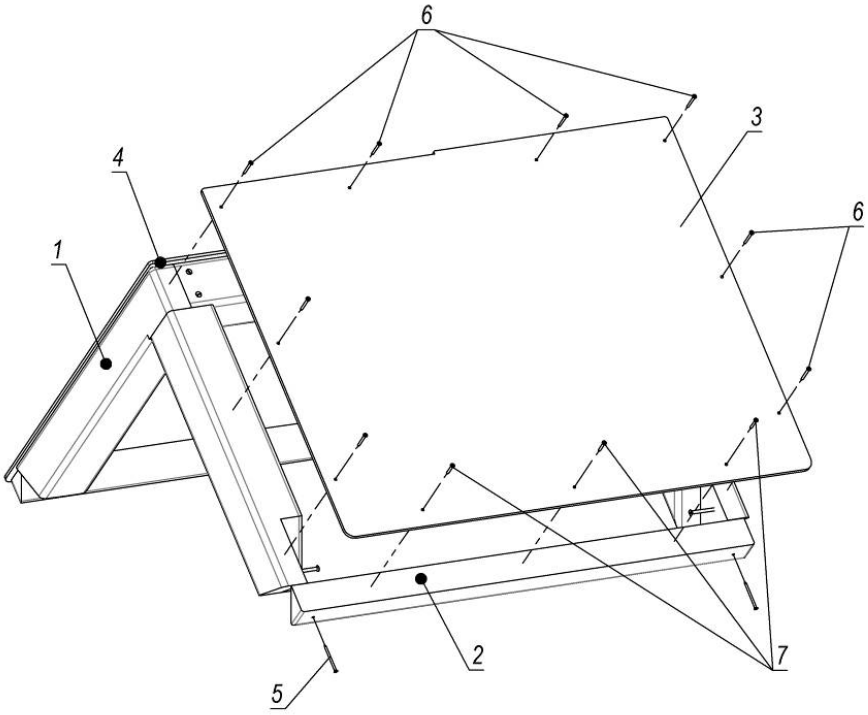


Pos.	Name	Weight, kg	Q-ty
1	Rear pediment	7	4
2	Front pediment	7	2
3	Ridge (100x100x900)	5	2
4	Two-sided angle bar		4
5	Screw 4x40 GOST1145		40
6	Screw 6x90 GOST1145		18
7	Screw 6x35 GOST1145		64
8	Support	2	8
9	Angle bar 80 mm		16
10	Roof slope (950x1400)	14	2
11	Roof slope (950x1400)	14	2
12	Screw 4x40 GOST1144		64

Picture 14.1 – Roof assembly scheme 2x2m

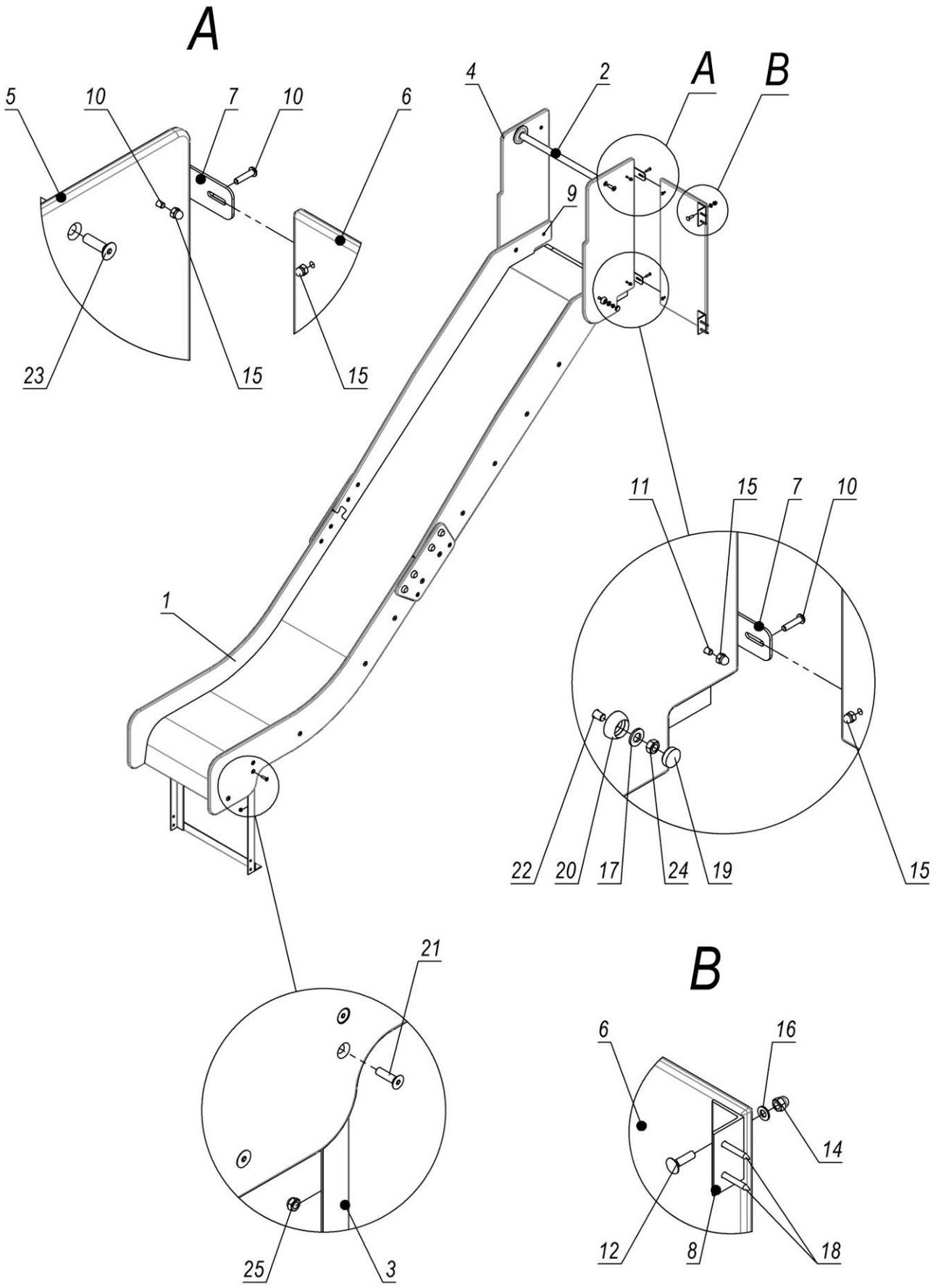


Pos.	Name	Weight, kg	Q-ty
1	Rear pediment		2
2	Front pediment		2
3	Ridge (100x100x900)	5	1
4	Screw 6x90 GOST1145		10



Pos.	Name	Weight, kg	Q-ty
1	Roof	19	1
2	Bar 970 mm		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 15 – Assembly scheme of the small roof


A
5
10
7
10
6
23
15
15
4
2
A
B
9
1
11
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25
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14
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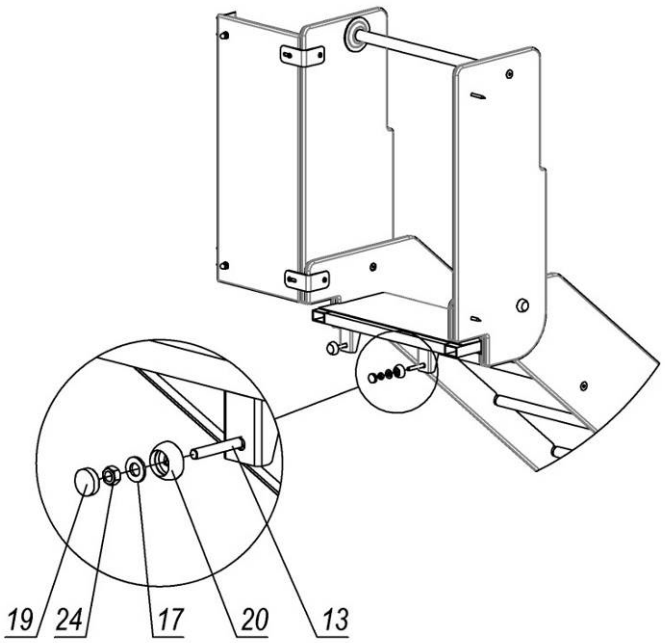
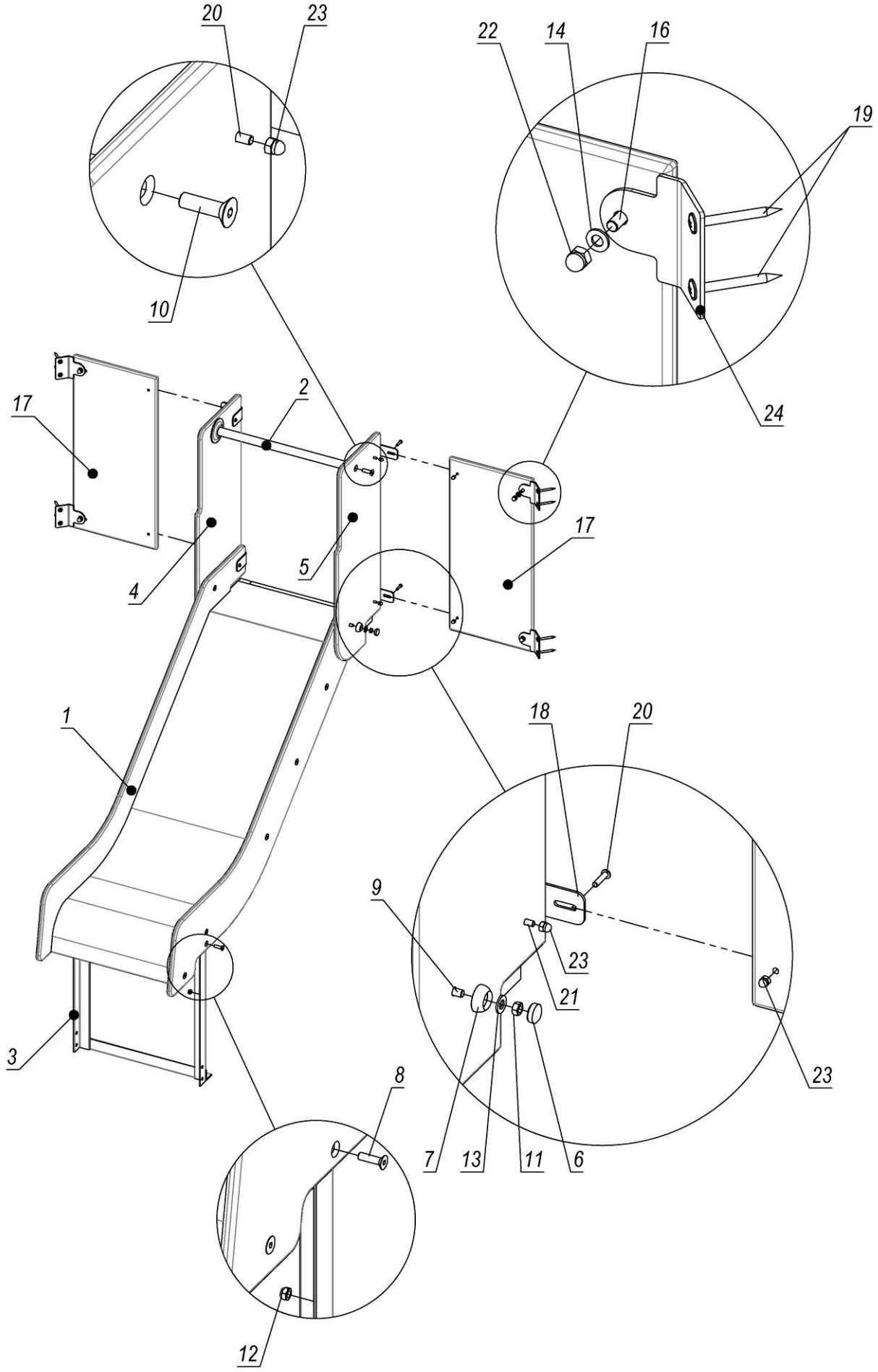
8
18

Picture 16

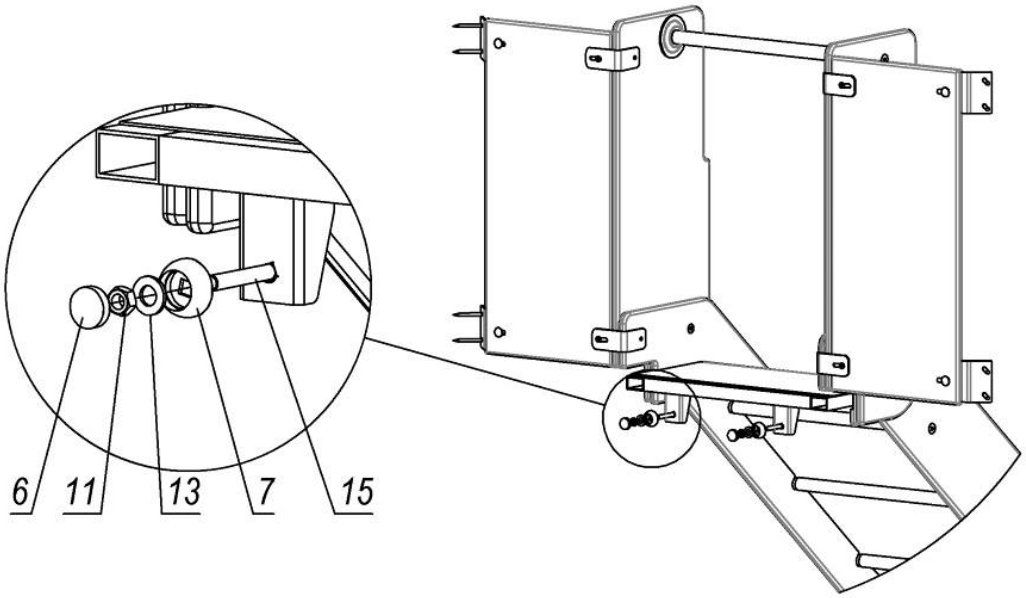


Pos.	Name	Weight, kg	Q-ty
1	Slide 1.5m	44	1
2	Brace rod 493 mm	1	1
3	Slide embedded element	5	1
4	Upper sidewall right	3	1
5	Upper sidewall left	3	1
6	Partition	3	1
7	Slide angle bar		2
8	Big angle bar		2
9	Screw 6.0x60 SPAX T-STAR plus (univers.)		2
10	Stud M6x25 ISO7380		3
11	Stud M6x40 ISO7380		1
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 16.1 – Assembly scheme of slide 1,5m



Picture 17

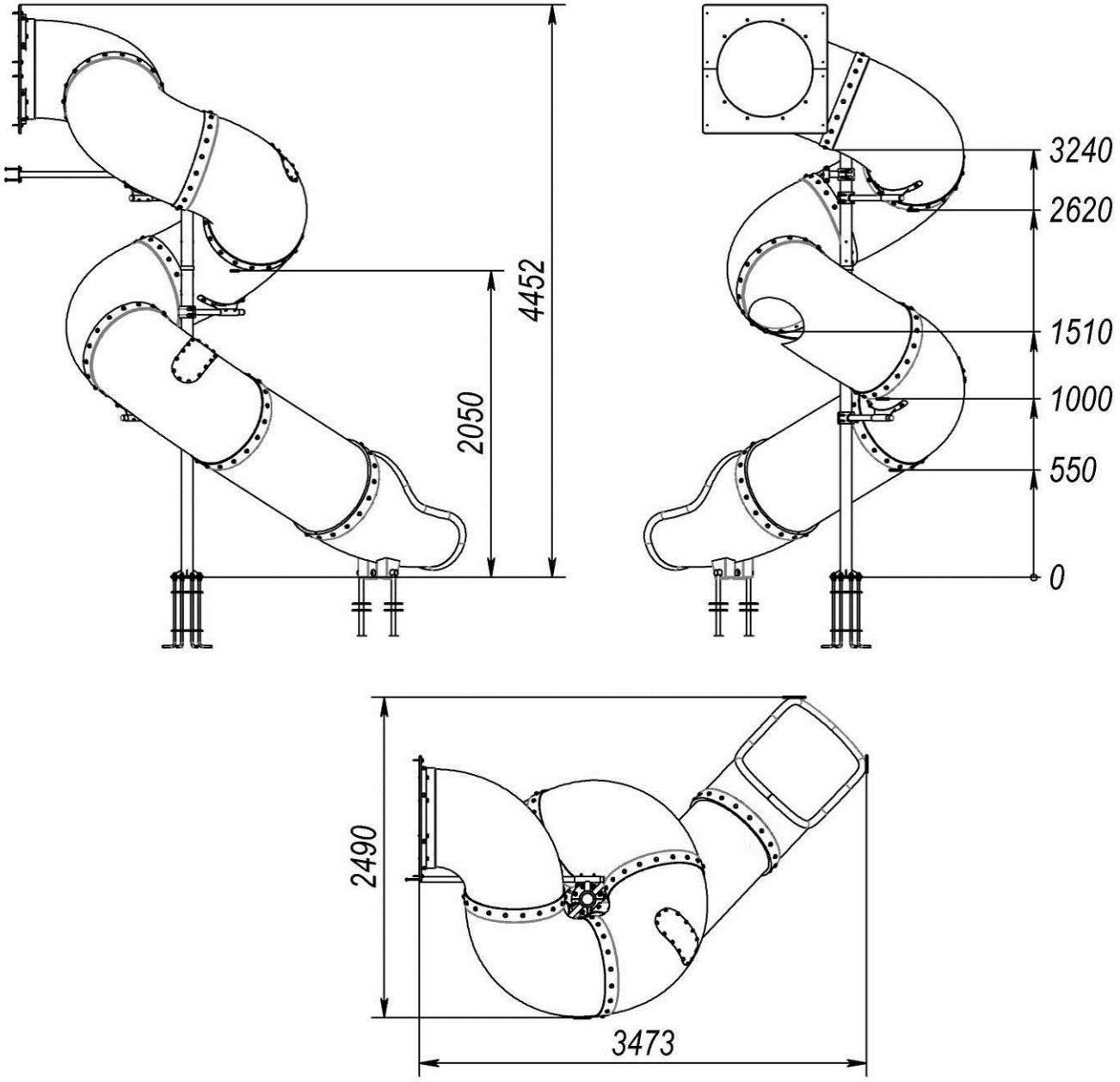


Pos.	Name	Weight, kg	Q-ty
1	Slide 0.7 m	21	1
2	Brace rod 493 mm	1	1
3	Slide embedded element (angle)	5	1
4	Upper sidewall right	3	1
5	Upper sidewall left	3	1
6	Cap M8		4
7	Cup M8		4
8	Stud M8x30 DIN7991	14	4
9	Stud M8x40 DIN7991	18	2
10	Stud M10x35 DIN7991	26	2
11	Nut M8 GOST5915		4
12	Nut M8 DIN985		4
13	Washer 10 GOST11371		4
14	Washer 8 GOST11371		4
15	Bolt M8*55 GOST7802		2
16	Bolt M8*30 GOST7802		4
17	Partition (306-650)	3	2
18	Slide angle bar		4
19	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		8
20	Stud M6x25 ISO7380		6
21	Stud M6x40 ISO7380		2
22	Cap nut M8 DIN1587		4
23	Cap nut M6 DIN1587		8
24	Angle 135 degrees		4

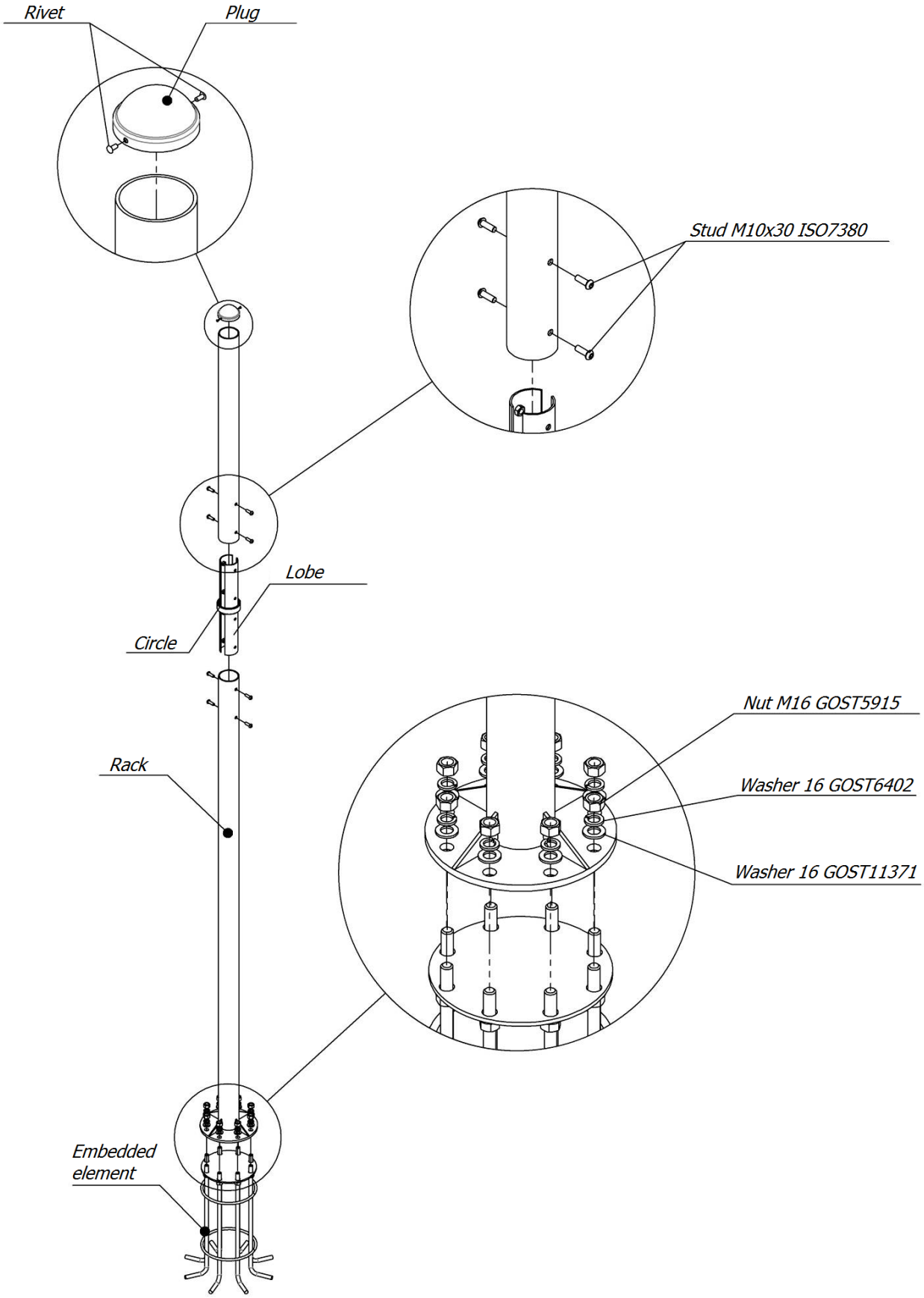
Picture 17.1 – Assembly scheme of slide 0,7m

Assembly scheme of spiral ladder

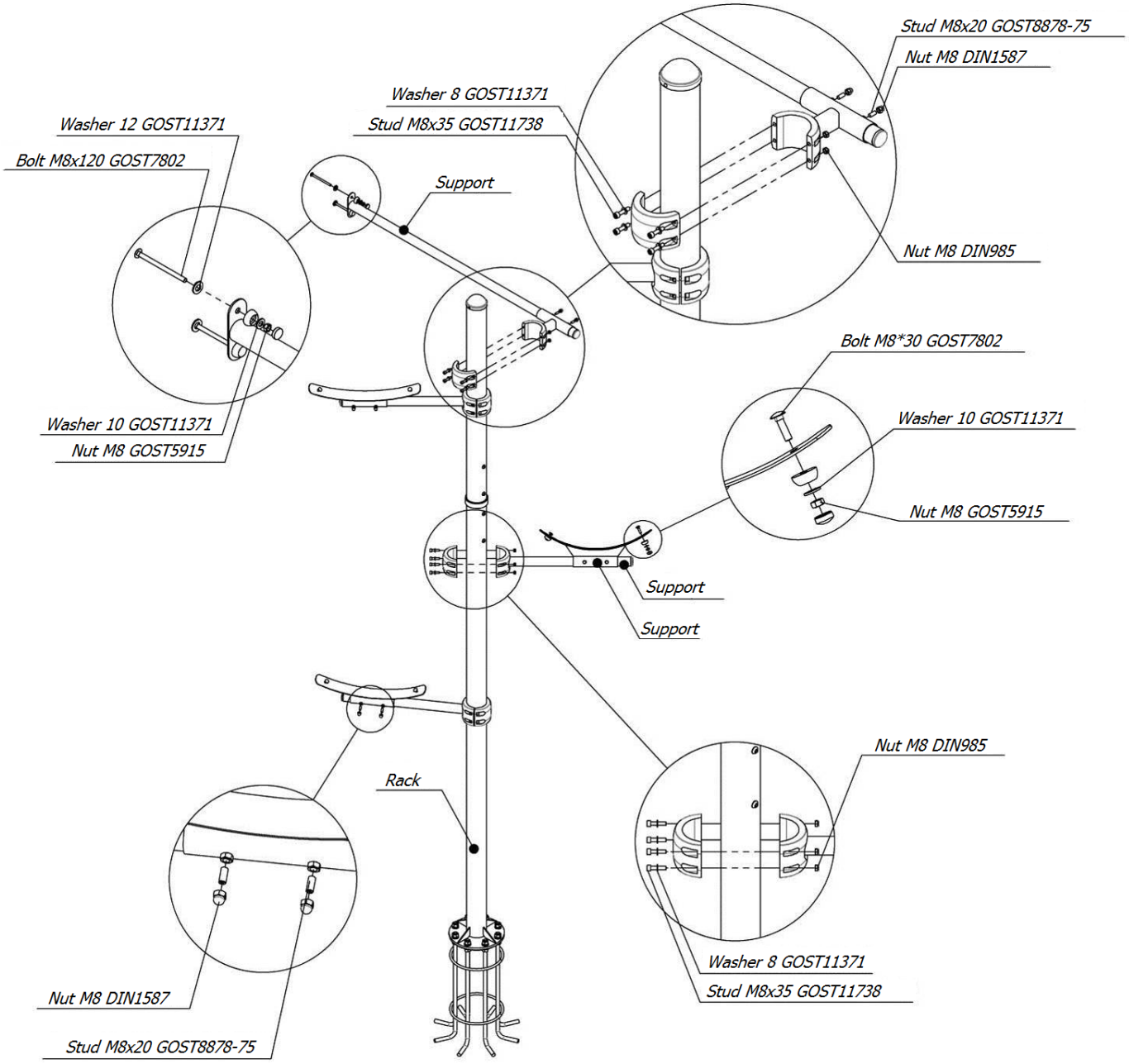
(Assemble slide pipes from top to bottom)



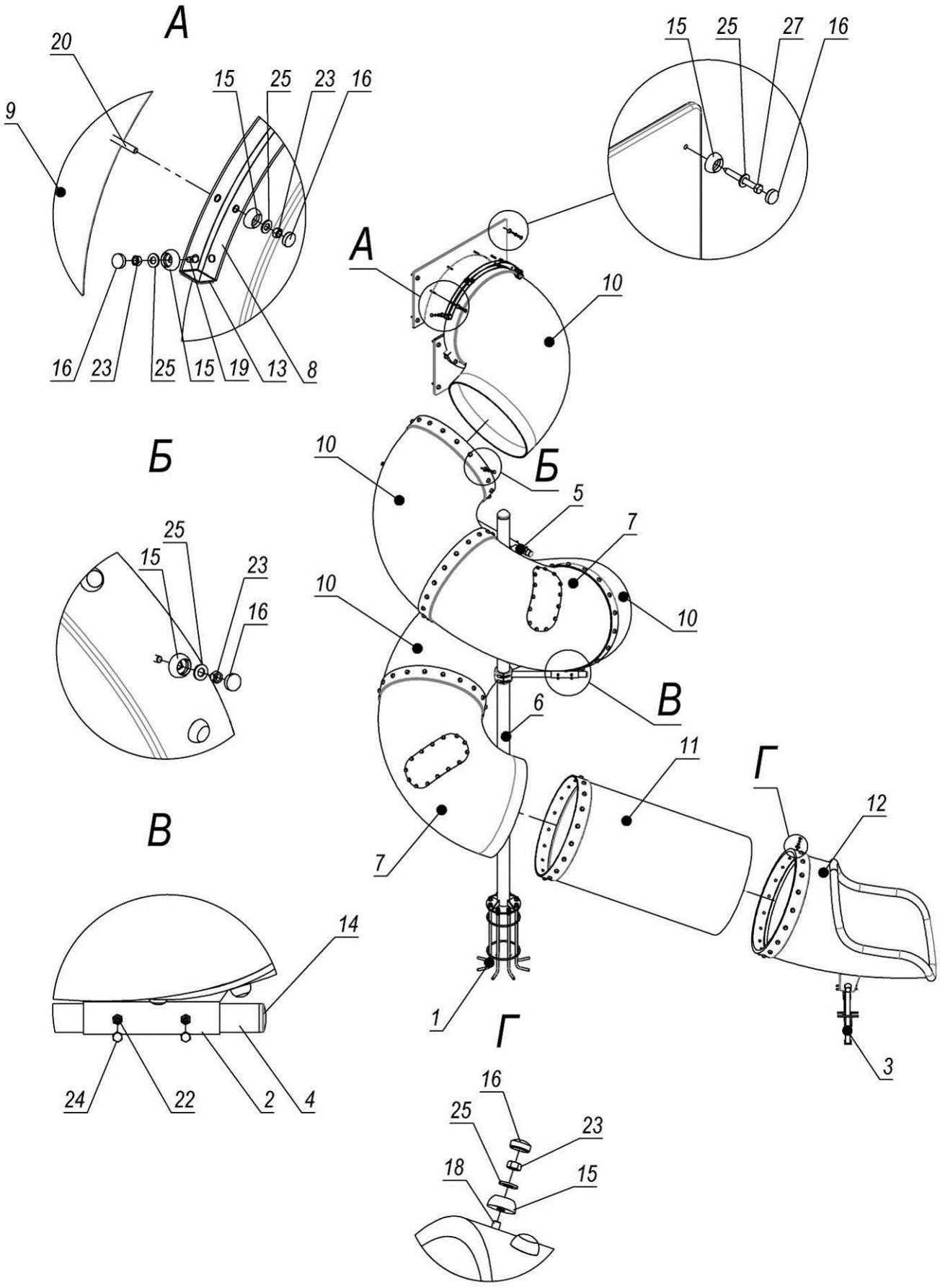
Picture 18 – Overall dimensions



Picture 19 – Assembly scheme of rack



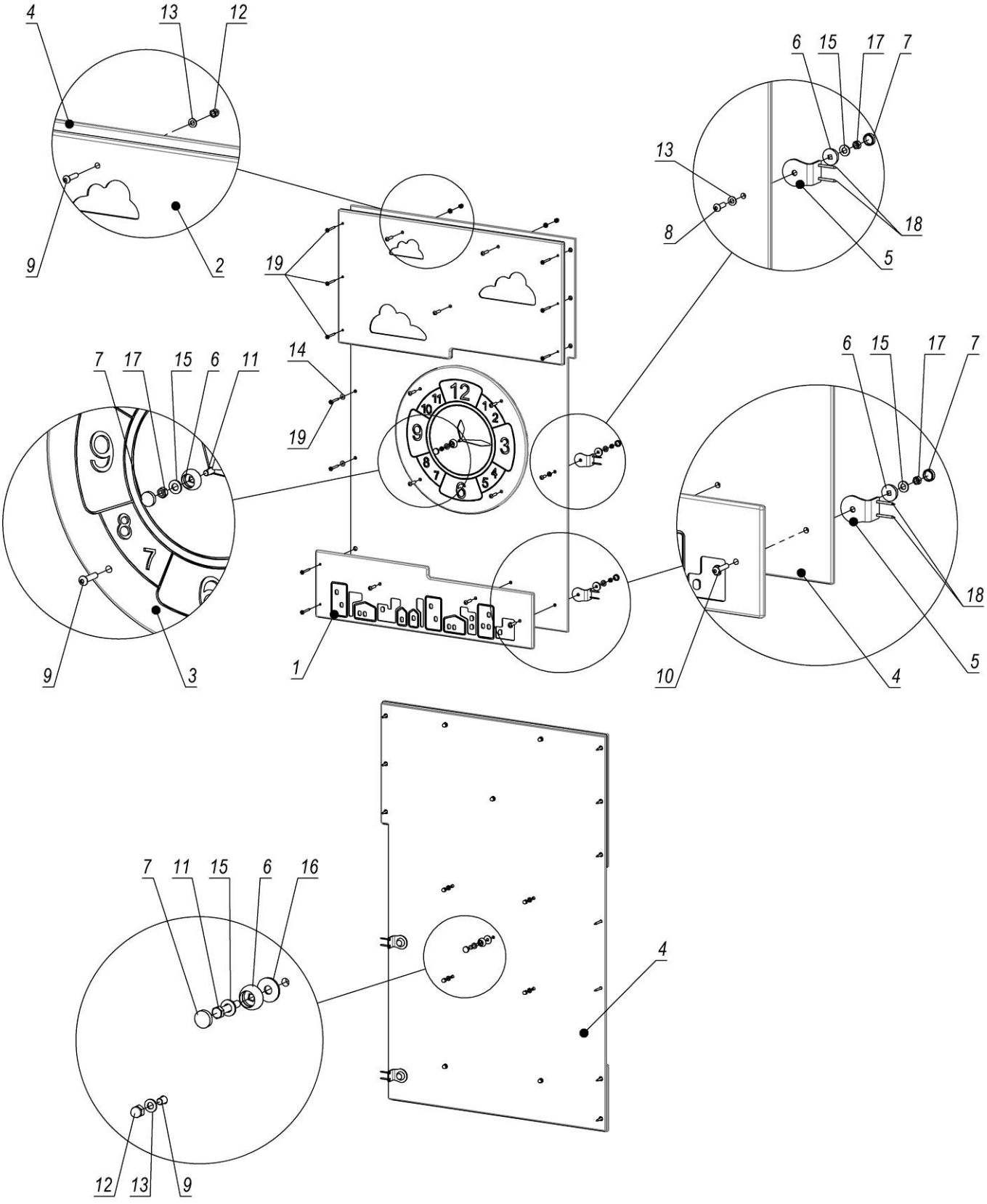
Picture 20 – Connection scheme of supports



Picture 21 – Connecting scheme of tubes

Table 1 – Completeness of spiral slide

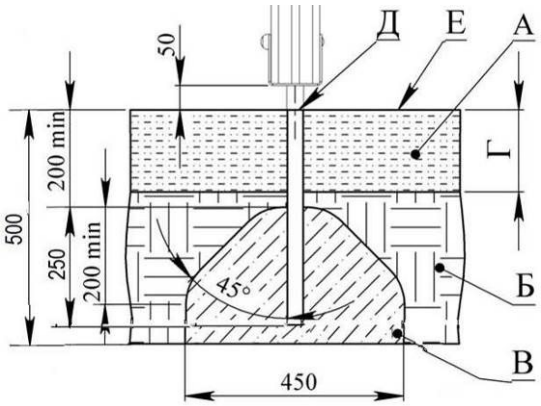
Pos.	Name	Weight, kg	Q-ty
1	Foundation (8 anchors assembly)	12	1
2	Support	1	3
3	Embedded element (slide-tube)	2	2
4	Support assembly	6	3
5	Support assembly	9	1
6	Rack 4.0m	36	1
7	Section with window assembly	23	2
8	Half-clamp of tunnel	2	2
9	Entrance	4	2
10	Tube bend 760		4
11	Straight tube 760	30	1
12	Tube whistle 760	49	1
13	Plug 40x40		4
14	Plug DN32R		4
15	Cup M8		158
16	Cap M8		158
17	Bolt M8*30 GOST7802		114
18	Bolt M8*45 GOST7802		18
19	Bolt M8*60 GOST7802		12
20	Bolt M8*65 GOST7802		8
21	Bolt M8*120 GOST7802		2
22	Stud 8x20 GOST8878-93		6
23	Nut M8 GOST5915		150
24	Cap nut M8 DIN1587		6
25	Washer 10 GOST11371		158
26	Washer 12 GOST11371		2
27	Screw 8x70 GOST11473		8



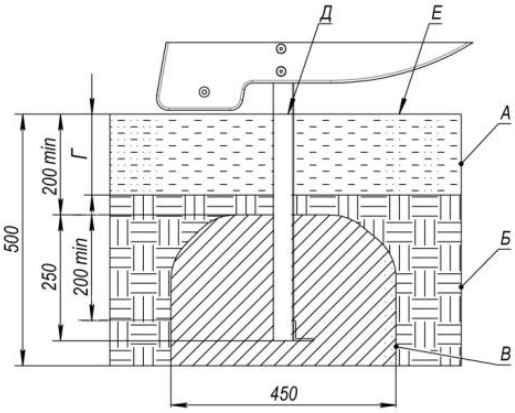
Picture 22 – Assembly scheme of panel with a clock

Table №2 – Completeness of panel with a clock

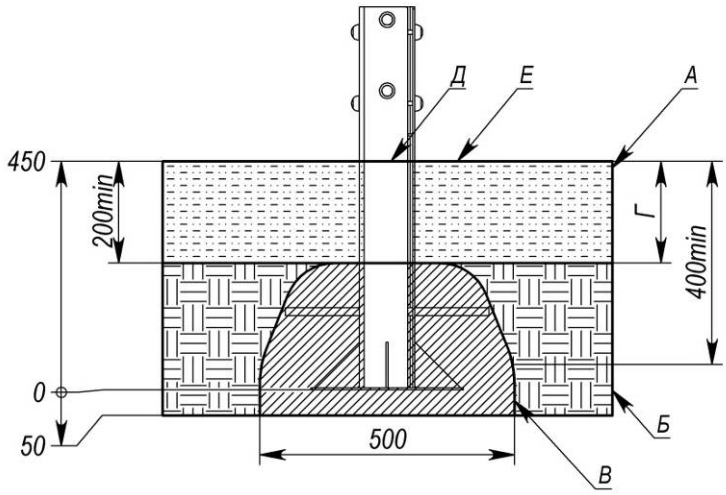
Pos.	Name	Weight, kg	Q-ty
1	Bottom panel	3	1
2	Upper panel with clouds	6	1
3	Cover plate "Clock"	3	1
4	Transparent panel (0.94x1.48)	15	1
5	Corner bracket 40x60		2
6	Cup M8		4
7	Cap M8		4
8	Stud M8x25 ISO7380		1
9	Stud M8x35 ISO7380		9
10	Stud M8x40 ISO7380		1
11	Bolt M8*45 GOST 7798		1
12	Cap nut M8 DIN1587		9
13	Washer 8 GOST11371		10
14	Washer 6 GOST6958		2
15	Washer 10 GOST11371		4
16	Washer 10 GOST6958		1
17	Nut M8 GOST5915		3
18	Screw 4x40 GOST1145		4
19	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		11



For beams supports and other elements



for slides of the complex



For supports of Big tower

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

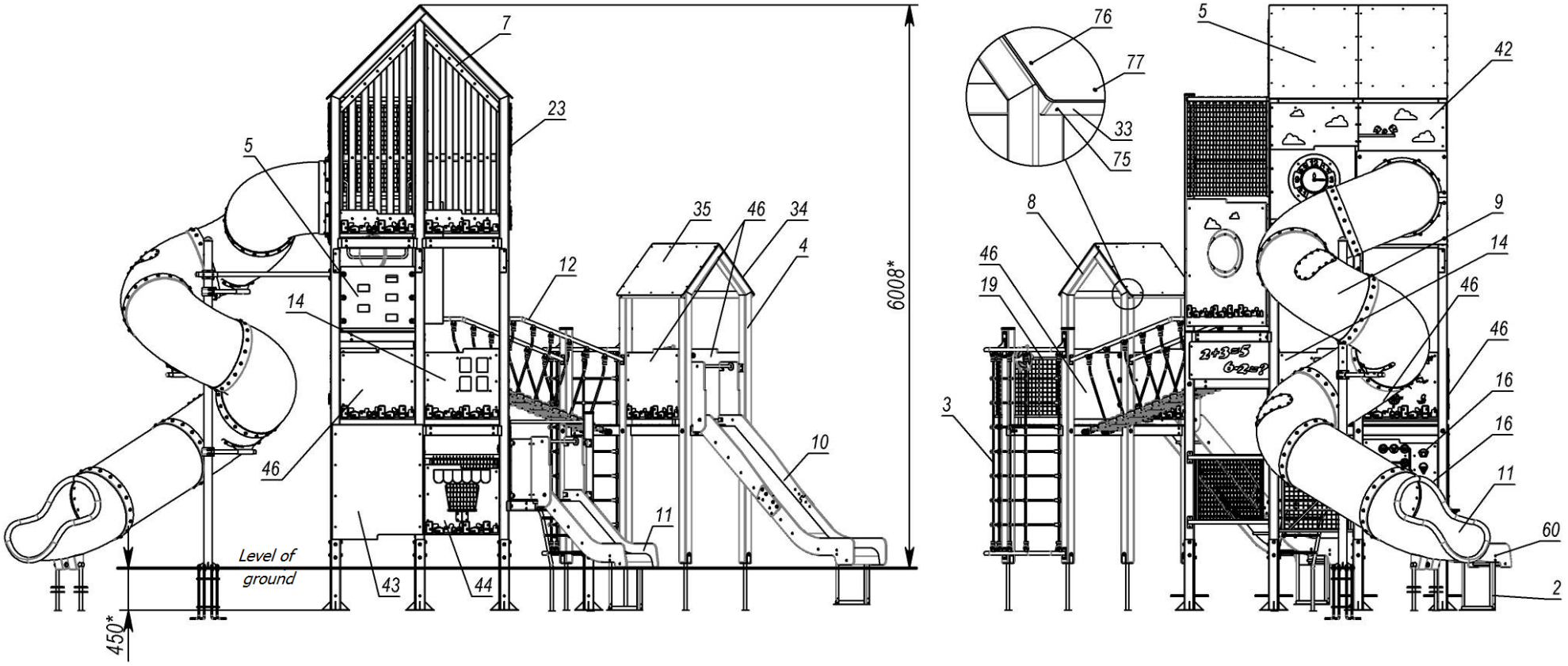
Examples of impact-absorbing coatings

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

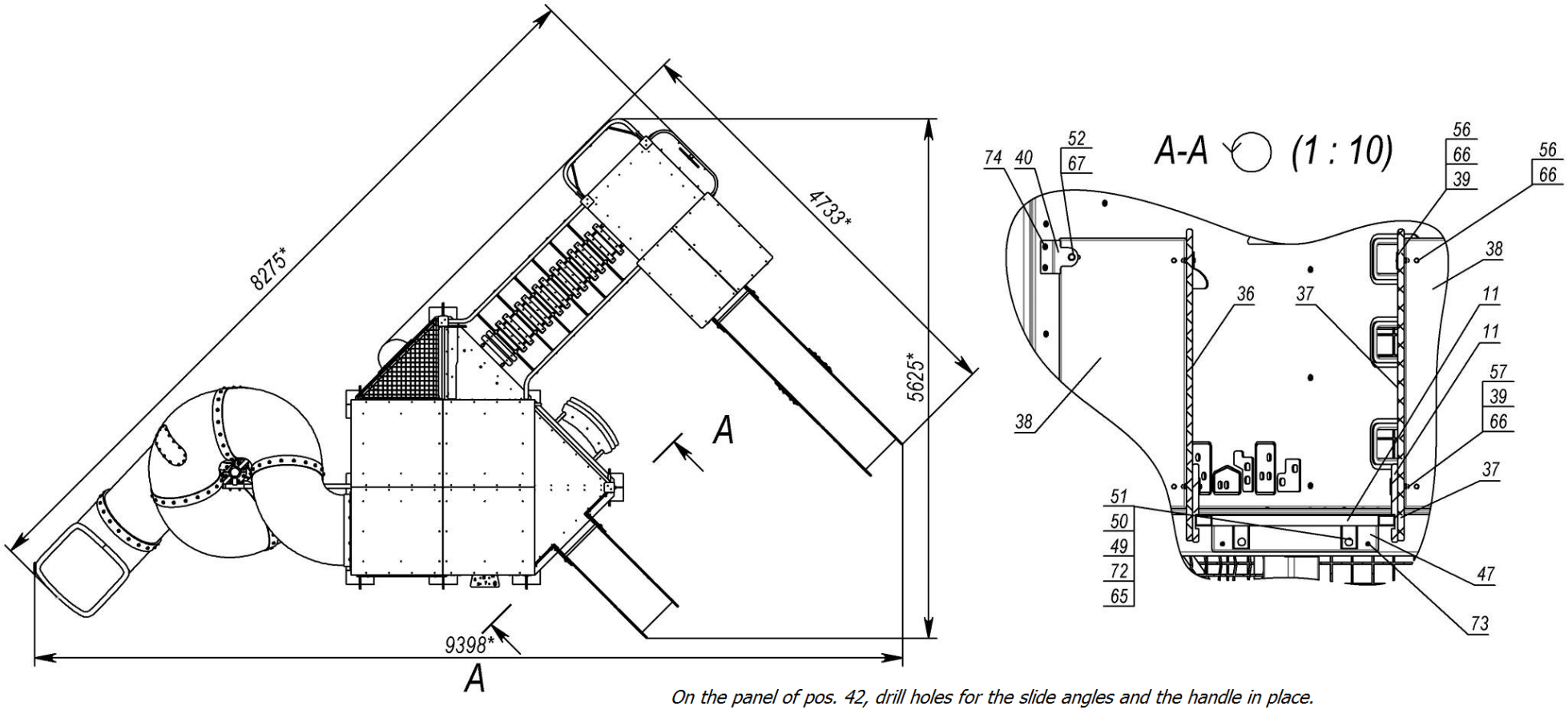
1. Materials are specially made for the playgrounds.
2. No clay inclusions should be present. Grain size is obtained by sieving through a sieve as in EN 933-1.

Picture 23 – Concreting scheme

Appendix



Picture 24



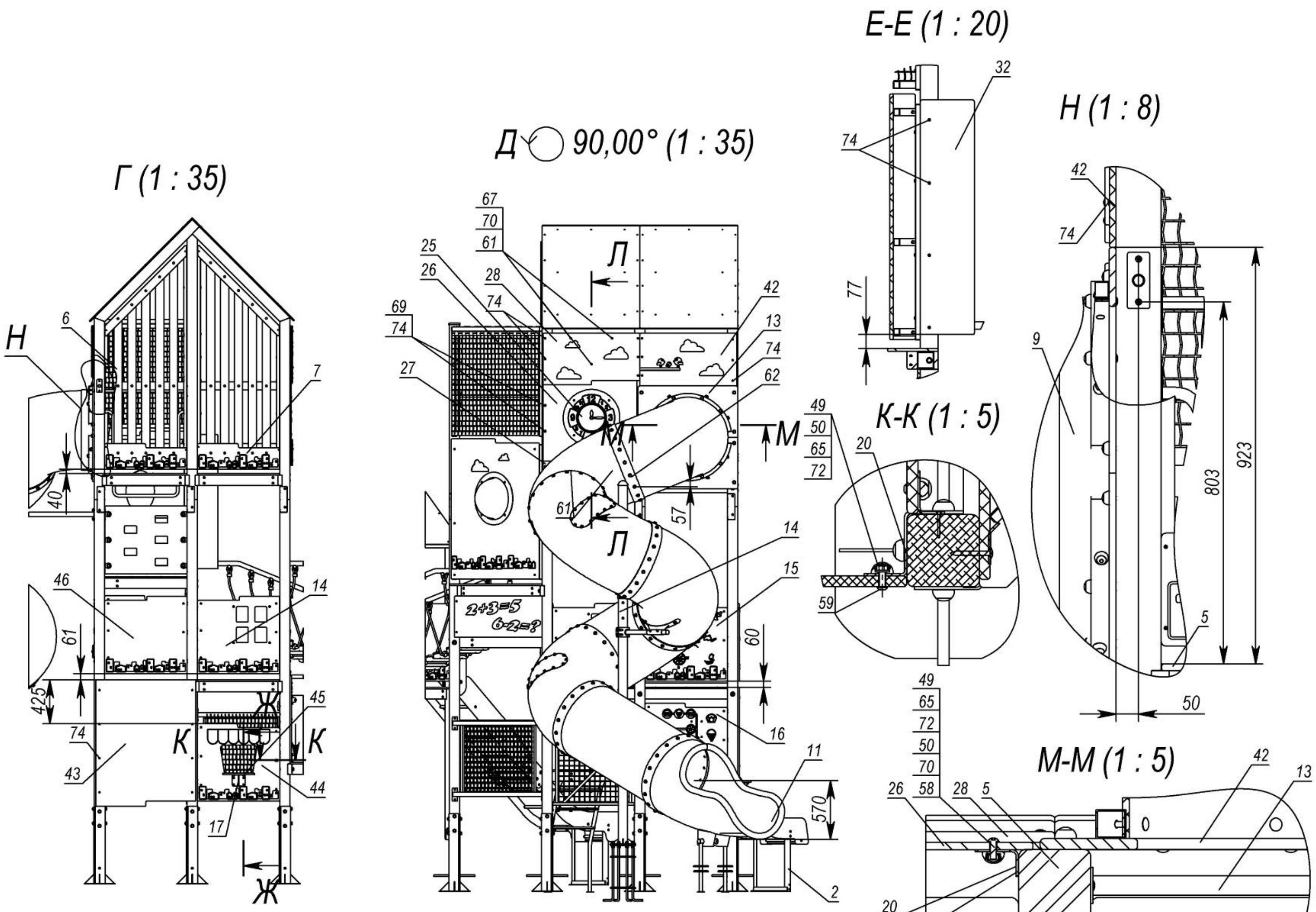
On the panel of pos. 42, drill holes for the slide angles and the handle in place.

Picture 25

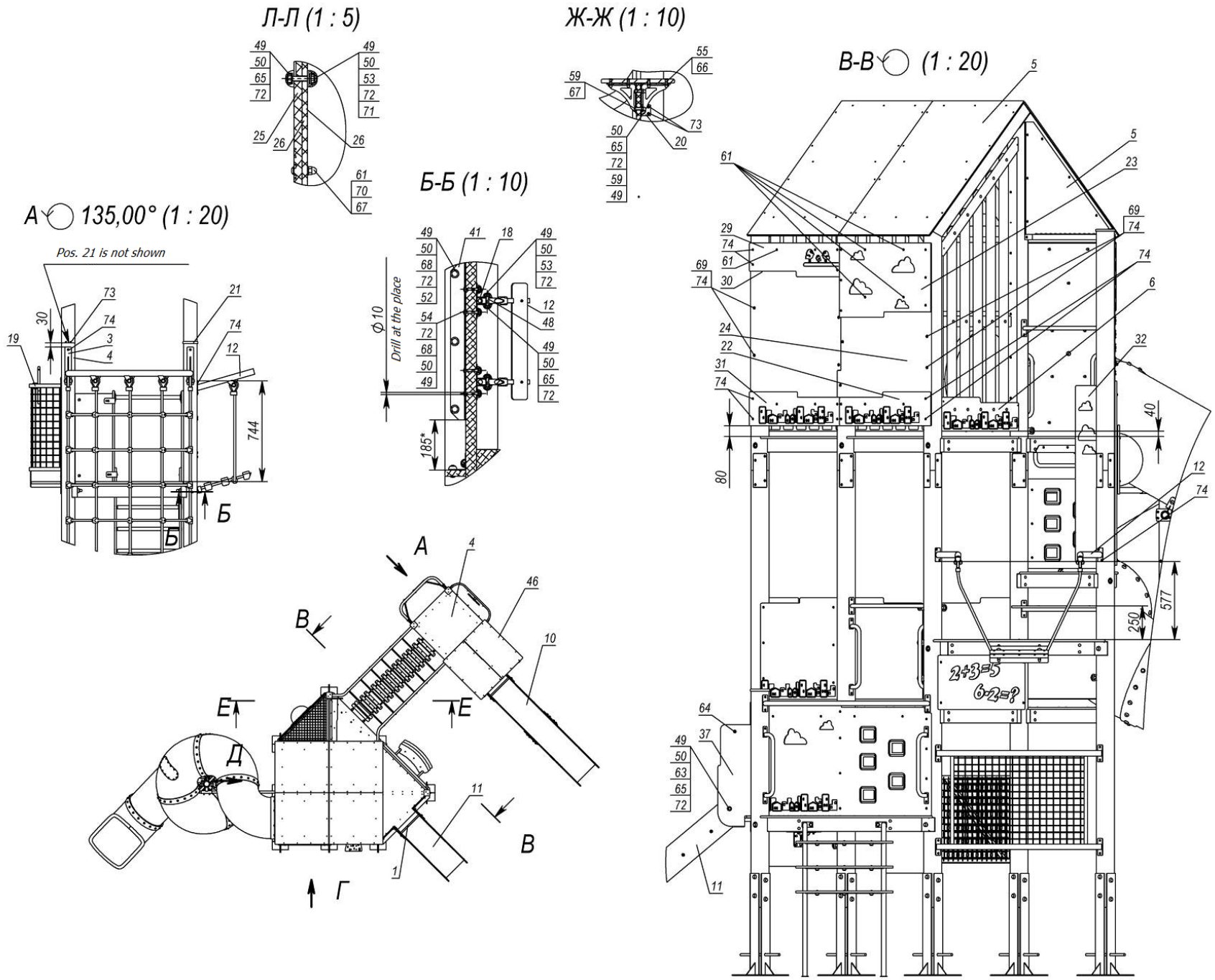
Pos.	Name	Weight, kg	Q-ty
1	Brace rod 493 mm	1	1
2	Slide embedded element (angle)	5	1
3	Vertical rope net	20	1
4	Big tower 1.5 m	143	1
5	Multi-level tower (2.8*2.8*6m)	985	1
6	Wooden corner fencing right	24	2
7	Wooden corner fencing left		1
8	Roof	19	1
9	Slide Ukrhimplast (3.5m)	319	1
10	Slide 1.5m assembly	60	1
11	Slide 0.7m	21	1
12	Rope corner bridge 0.95x1.9	32	1
13	Brace rod 0.8m	1	1
14	Panel with windows	8	2
15	Panel "World's map" assembly	8	1
16	Panel "Sweets" 0.75 assembly	10	1
17	Showcase angle bar		2
18	Bracket for bucket		4
19	Balcony 0.9m with steering wheel	16	1
20	Corner bracket 40x60		56
21	Cap on bar		2
22	Lower cover plate 0.25m	3	1
23	Upper cover plate with clouds	7	1
24	Panel 0.94x1.35	14	1
25	Cover plate "Watch"	3	1
26	Transparent panel (0.94x1.48)	15	1
27	Lower panel	3	1
28	Upper panel with clouds	6	1
29	Upper panel Birds	3	1
30	Panel (0.94x1.35)	14	1
31	Lower panel	3	1
32	Fencing panel 1.3*0.3 m	5	1
33	Bar 970 mm		2
34	Roof slope (775x1000)	5	1
35	Roof slope (775x1000)	5	1
36	Upper sidewall right	3	1
37	Upper sidewall left	3	1
38	Partition (300x650)	3	2
39	Slide angle bar		4

Pos.	Name	Weight, kg	Q-ty
40	Angle 135 degrees		4
41	Fastening flange 580 mm	2	2
42	Coverings under the slide	7	1
43	Panel for drawing 1x1.25	13	1
44	Panel "Showcase" 0.75m	7	1
45	Table with numbers		1
46	Fencing shield		4
47	Slide lining		1
48	Tube d12x1.5 GOST10704, L=22mm		4
49	Cap M8		84
50	Cup M8		84
51	Bolt M8*65 GOST7802		2
52	Bolt M8*30 GOST7802		10
53	Bolt M8*45 GOST7798		5
54	Bolt M8*60 GOST7802		8
55	Stud M6x25 DIN 7991		8
56	Stud M6x25 ISO7380		6
57	Stud M6x40 ISO7380		2
58	Stud M8x25 ISO7380		1
59	Stud M8x30 ISO7380		58
60	Stud M8x30 DIN7991		4
61	Stud M8x35 ISO7380		19
62	Stud M8x40 ISO7380		1
63	Stud M8x40 DIN7991		2
64	Stud M10x35 DIN7991		2
65	Nut M8 GOST5915		65
66	Cap nut M6 DIN1587		16
67	Cap nut M8 DIN1587		27
68	Nut M8 DIN985		18
69	Washer 6 GOST6958		10
70	Washer 8 GOST11371		24
71	Washer 10 GOST6958		1
72	Washer 10 GOST11371		84
73	Screw 4x40 GOST1145		120
74	Screw 6.0x60 SPAX T-STAR plus (univers.)		130
75	Screw 4x60 GOST1145		4
76	Screw 4x40 GOST1144		16
77	Screw 4x30 GOST1144		6

Picture 26

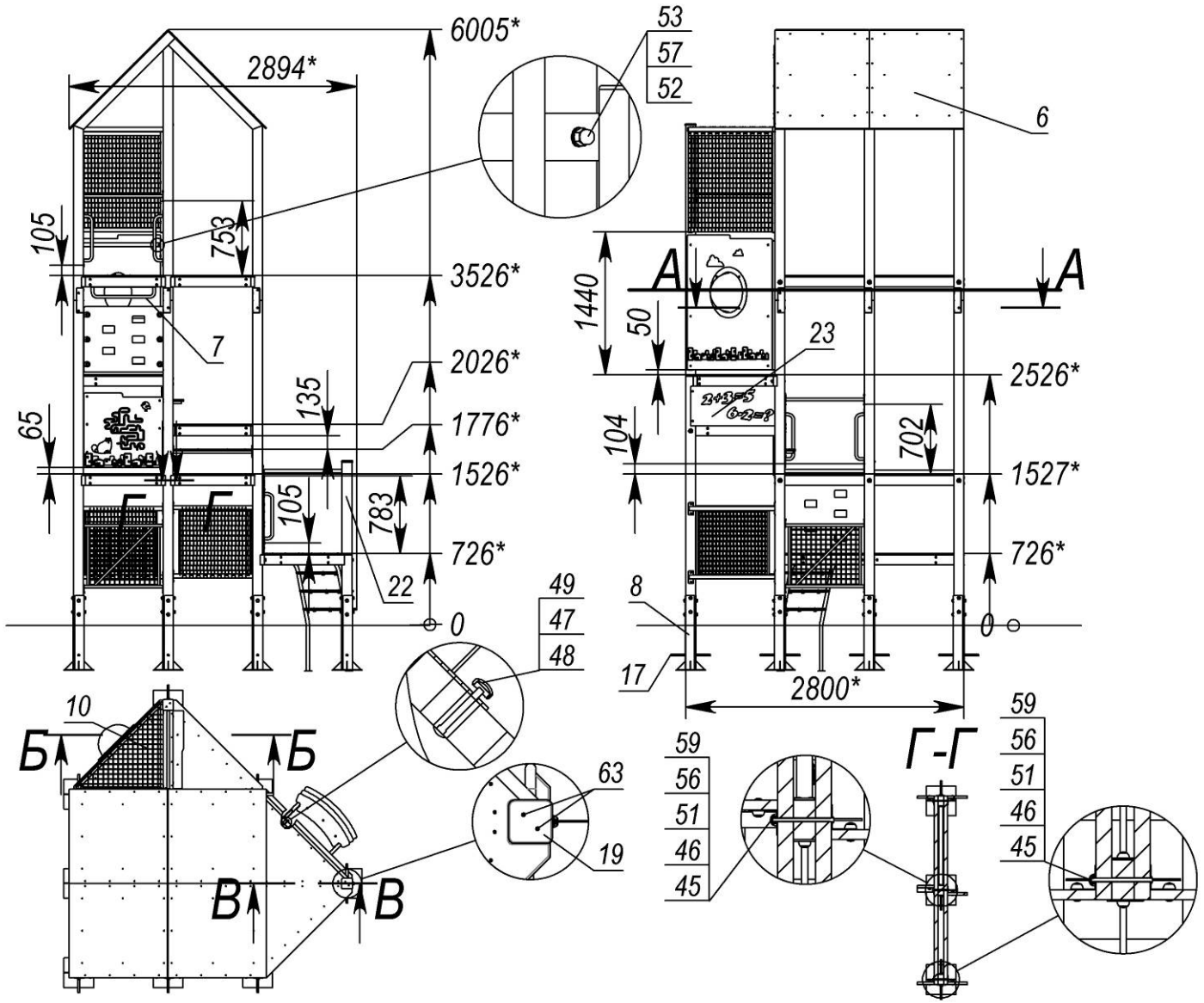


Picture 27


Л-Л (1 : 5)
Ж-Ж (1 : 10)
В-В (1 : 20)
Б-Б (1 : 10)
А 135,00° (1 : 20)
Pos. 21 is not shown
Drill at the place
ϕ 10
185*
744
80
577
250
40
2+3=5
6-2=?

Picture 28

Module of the multi-level tower

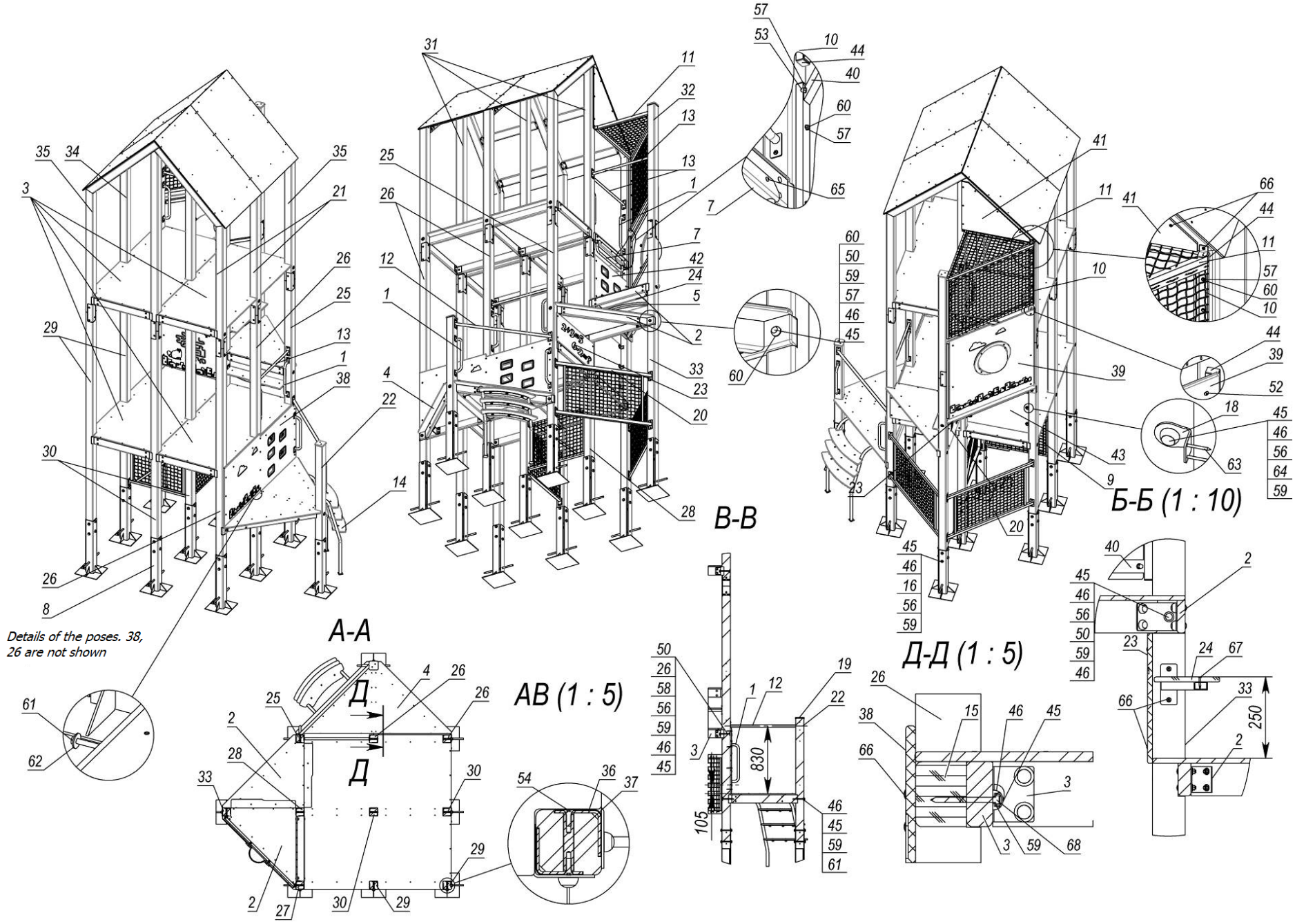


Picture 29

Pos.	Name	Weight, kg	Q-ty
1	Handle		6
2	3-sided site	14	2
3	Double site		4
4	Double site (1x1.9) angle	29	1
5	Step support	2	2
6	Roof 2x2m	133	1
7	Footrest	3	1
8	Big tower support	12	11
9	Fence-mesh	9	2
10	Fence-mesh corner (1.04*1m)	13	1
11	Horizontal protection	7	1
12	Corner brace rod (1.2m)	3	1
13	Brace rod 0.8m	1	3
14	Ladder 0.7m	12	1
15	Beam	2	2
16	Sprig M8 L=135		44
17	Armature 16 L=400 DSTU3760		11
18	Corner bracket 40x60		12
19	Cap on bar		2
20	Fence - corner mesh	10	2
21	Upper beam sided	10	3
22	Beam 1.6m (groove 0.7m)	9	1
23	Lap (0.4x0.9)	5	2
24	Step (200x787)	2	2
25	Beam 3.225m	19	1
26	Beam 3.225m	19	2
27	Beam 3.225m	19	1
28	Beam 3.225m		1
29	Beam 3.225m	19	2
30	Beam centr. 3.225m	19	2
31	Upper beam central	15	3
32	Upper beam attachable	10	1
33	Lower beam attachable	19	1
34	Upper beam central external	10	1

Pos.	Name	Weight, kg	Q-ty
35	Upper beam sided	10	2
36	Angle bar	1	20
37	Brace rod d15x87mm		40
38	Panel "Coverings"	21	1
39	Corner panel with porthole	24	1
40	Panel frame	12	1
41	Panel fencing	4	1
42	Panel "Manhole"	7	1
43	Panel "Labyrinth" (0.75m)	8	1
44	Plug 40x25		10
45	Cap M8		134
46	Cup M8		134
47	Cup M6		2
48	Cap M6		2
49	Bolt M6*50 GOST7802		2
50	Bolt M8*130 GOST7802		20
51	Bolt M8*150 GOST7802		6
52	Stud M8x50 ISO7380		6
53	Cap nut M8 DIN1587		6
54	Stud M8x25 DIN7991		80
55	Nut M6 GOST5915		2
56	Nut M8 GOST5915		129
57	Washer 8 GOST11371		26
58	Washer 10 GOST6958		25
59	Washer 10 GOST11371		134
60	Screw 8x70 GOST11473		18
61	Screw 8x140 GOST11473		2
62	Washer 8 GOST6958		1
63	Screw 4x40 GOST1145		28
64	Stud M8x30 ISO7380		12
65	Stud M8x40 ISO7380		3
66	Screw 6.0x60 SPAX T-STAR plus (univers.)		100
67	Screw with drill 4.8x32 DIN7504P		8
68	Screw 8x100 GOST11473		4

Picture 30


Details of the poses. 38, 26 are not shown
А-А
В-В
Б-Б (1 : 10)
Д-Д (1 : 5)
Д
Д
АВ (1 : 5)
830
250
105

Picture 31