

DATA SHEET

Playground complex «Big City-1» TE931



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FOR NOTES

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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

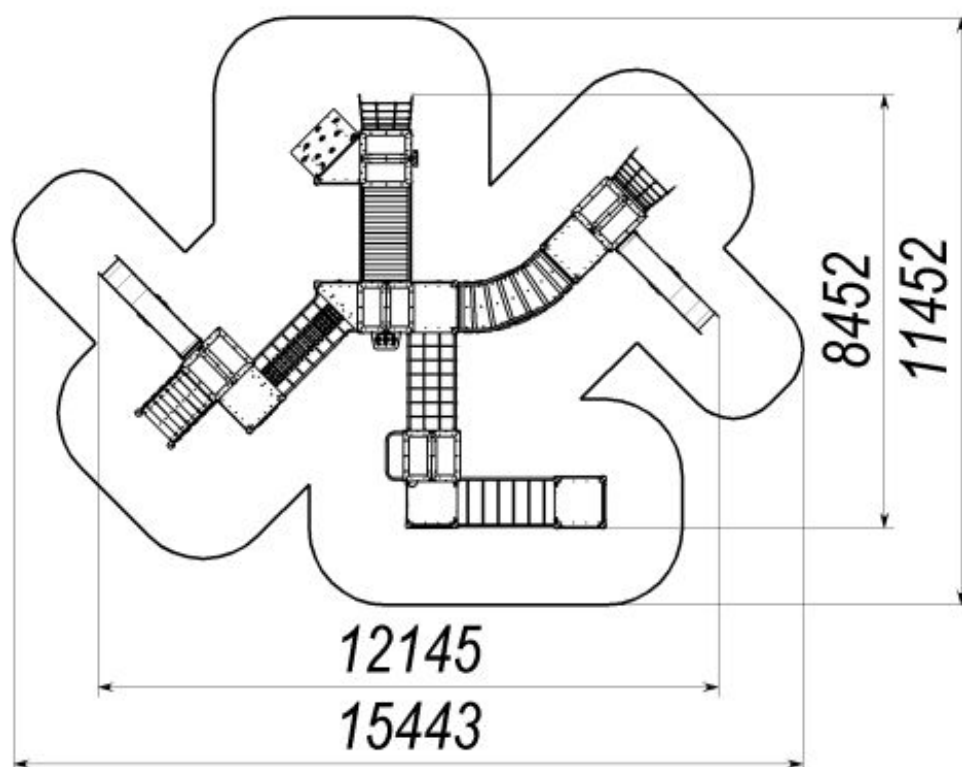
Date		Product storage conditions	Full name	Signature
Putting into storage	Removal from storage			

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.

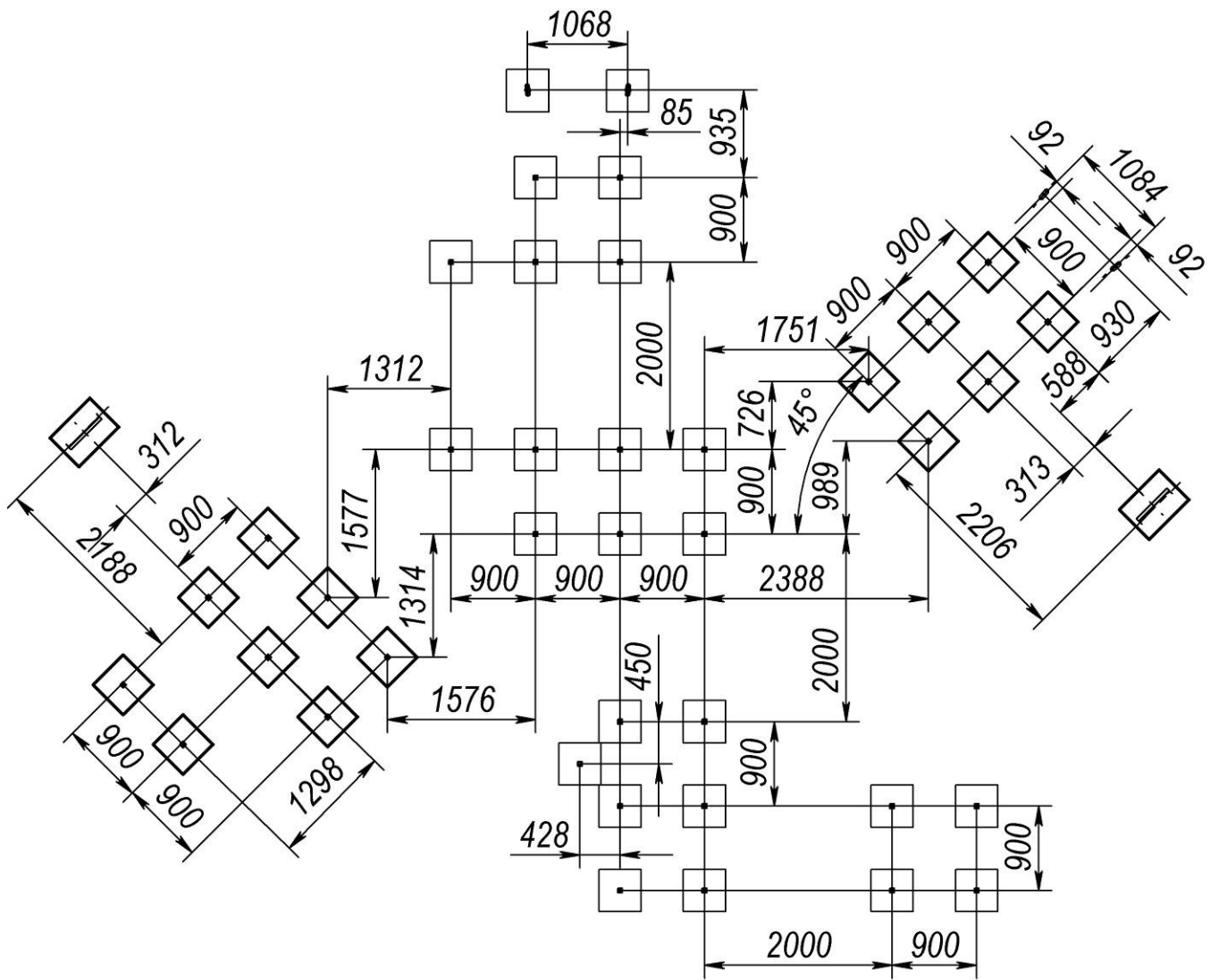
The equipment does not contain harmful impurities and materials that can harm your health and is not subject to special recycling.

6. TECHNICAL DATA AND ASSEMBLY SCHEMES

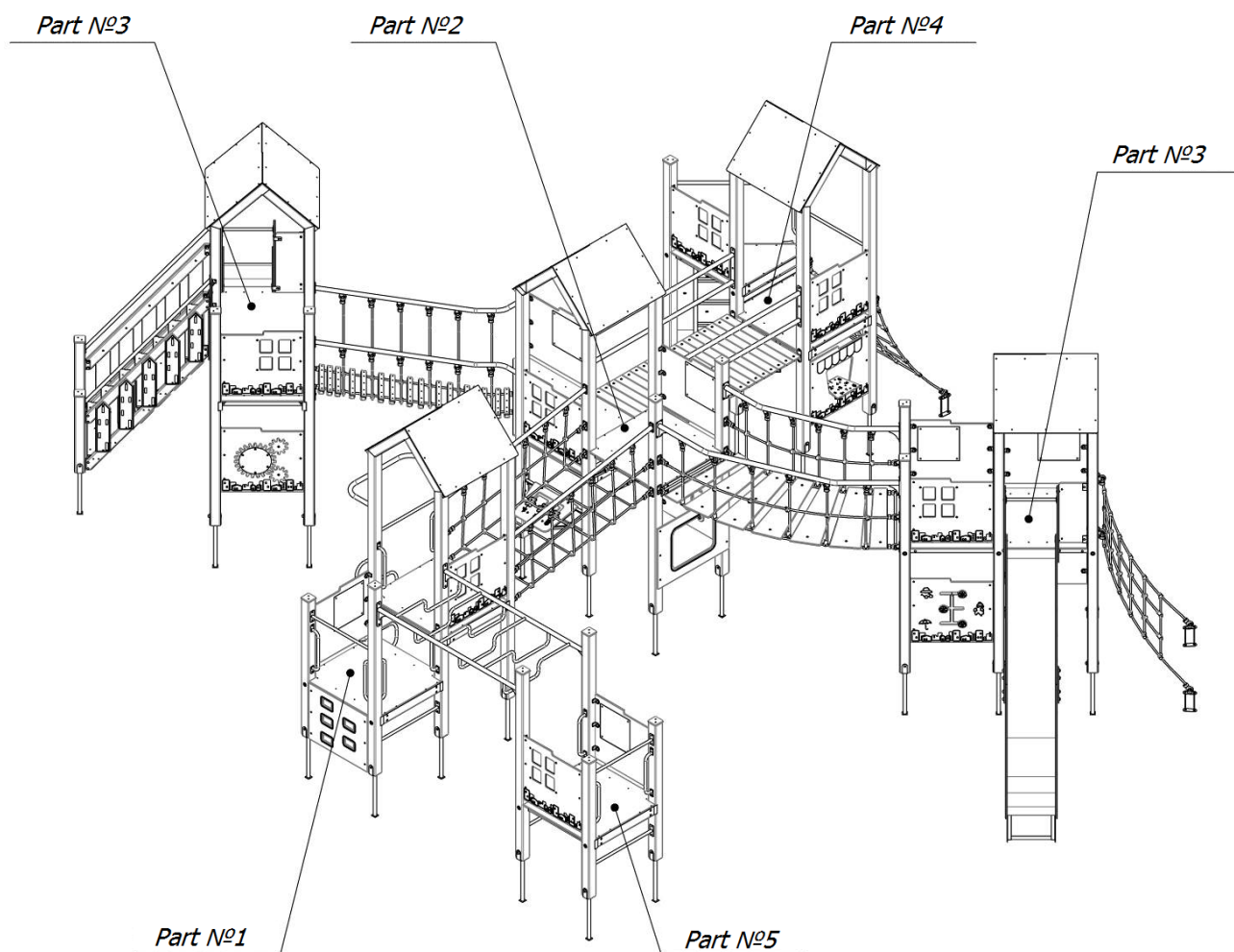
Length, mm	12145
Width, mm	8452
Height, mm	3463
Weight, kg	1749
Height of fall, mm	1528
Age restrictions, years	Up to 12
Weight limits, kg	Up to 60



Picture 1 – Landing zone

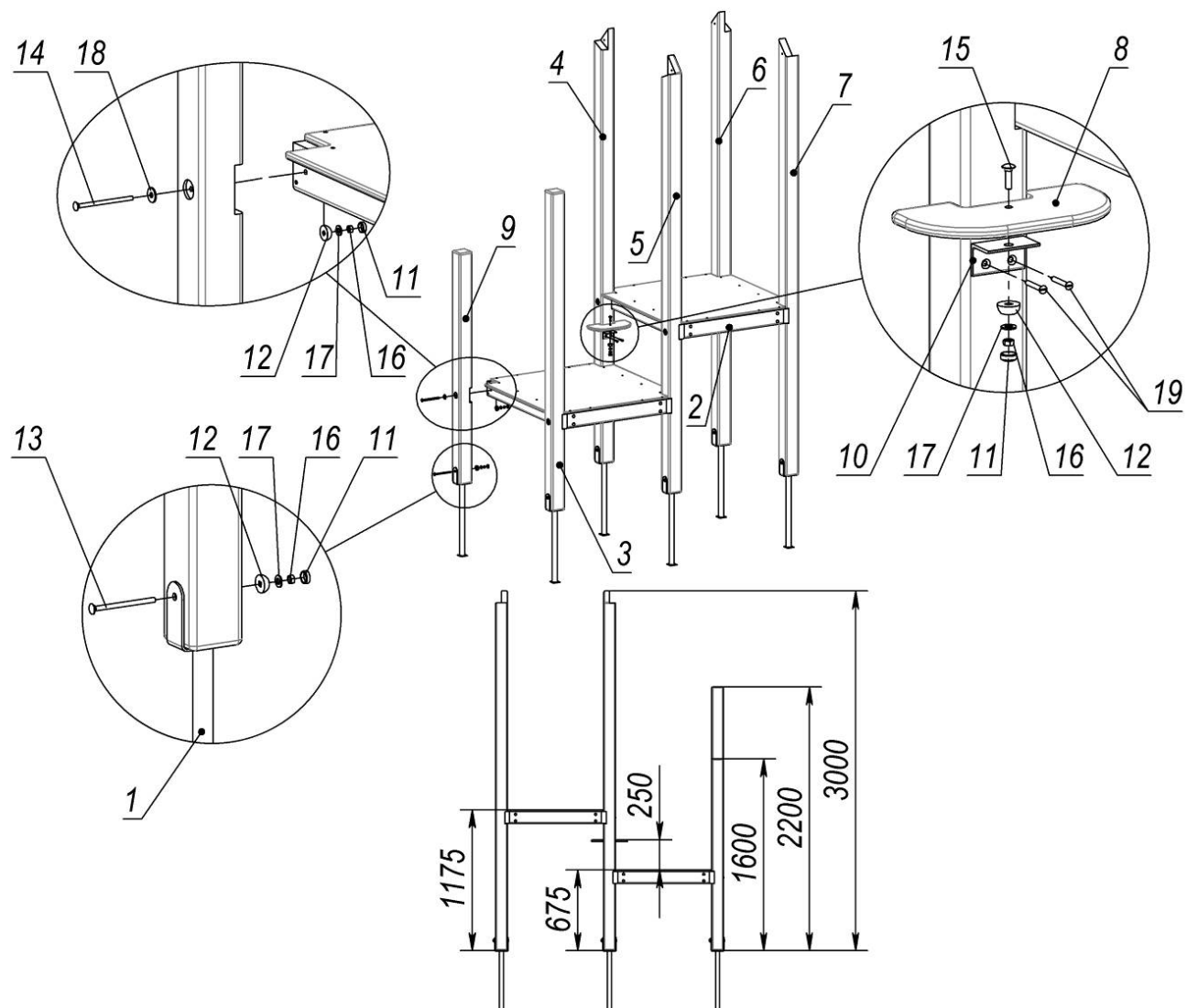


Picture 2 - Layout of foundations



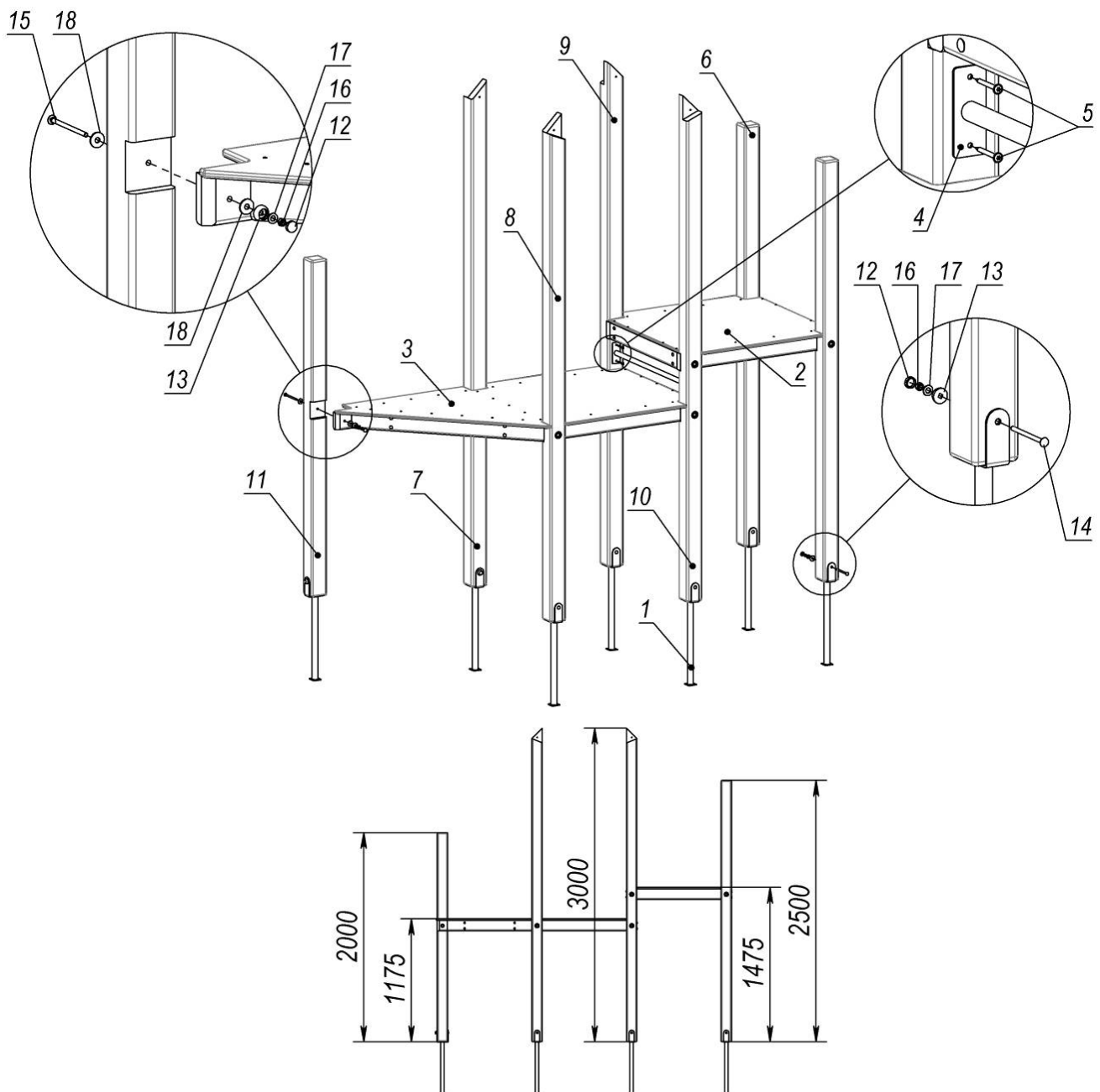
To simplify the assembly of the complex we divide it into 5 parts!

Picture 3 - Layout of the Towers



Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	6
2	Site 1x1m	19	2
3	Beam 2.2m (mortise 0.7 m)	13	1
4	Beam 3m (mortise 0.7-1,2)	17	1
5	Beam 3m (mortise 0.7-1,2)	17	1
6	Beam 3m (mortise 1,2)	17	1
7	Beam 3m (mortise 1,2)	17	1
8	Step (150x300)		1
9	Beam 1.6m (mortise 0.7m)	9	1
10	Big angle bar		1
11	Cap M8		15
12	Cup M8		15
13	Bolt M8*120 GOST7802		6
14	Bolt M8*130 GOST7802		8
15	Bolt M8*30 GOST7802		1
16	Nut M8 GOST5915		15
17	Washer 10 GOST11371		15
18	Washer 10 GOST6958		8
19	Screw 6x50 GOST1145		2

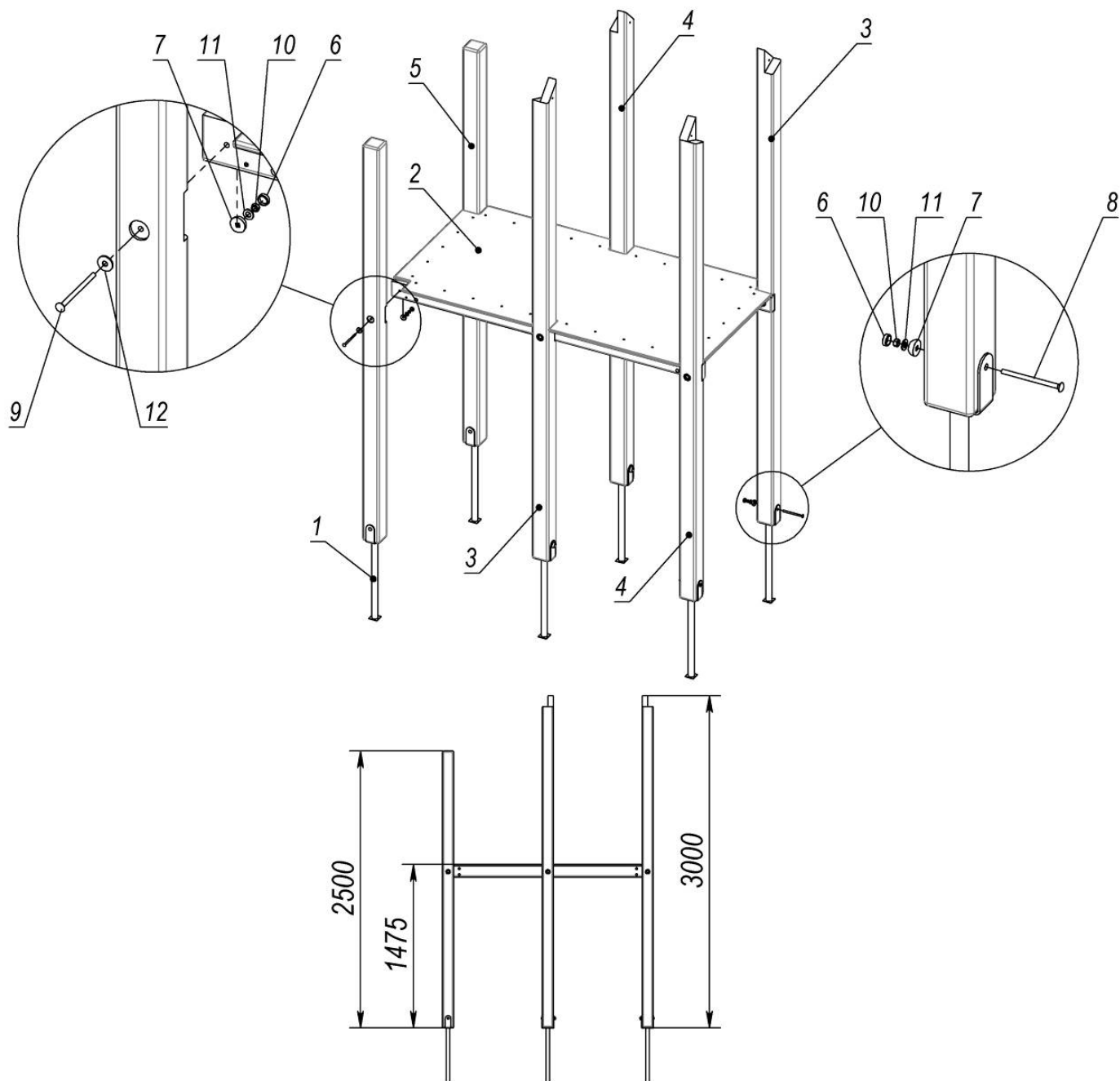
Picture 4 - Double tower (0.7-1.2m). The tower is located under №1 in pic. 1



Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	7
2	Site 1x1m	19	1
3	Double site (1x1.9) angle	31	1
4	Brace rod 0.8m	1	1
5	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		4
6	Beam 2.5m (mortise 1.5m)	15	2
7	Beam 3m (mortise 1.2)	17	1
8	Beam 3m (mortise 1.2)	17	1
9	Beam 3m (mortise 1.2 and 1.5m)		1
10	Beam 3m (mortise 1.2 and 1.5m)		1

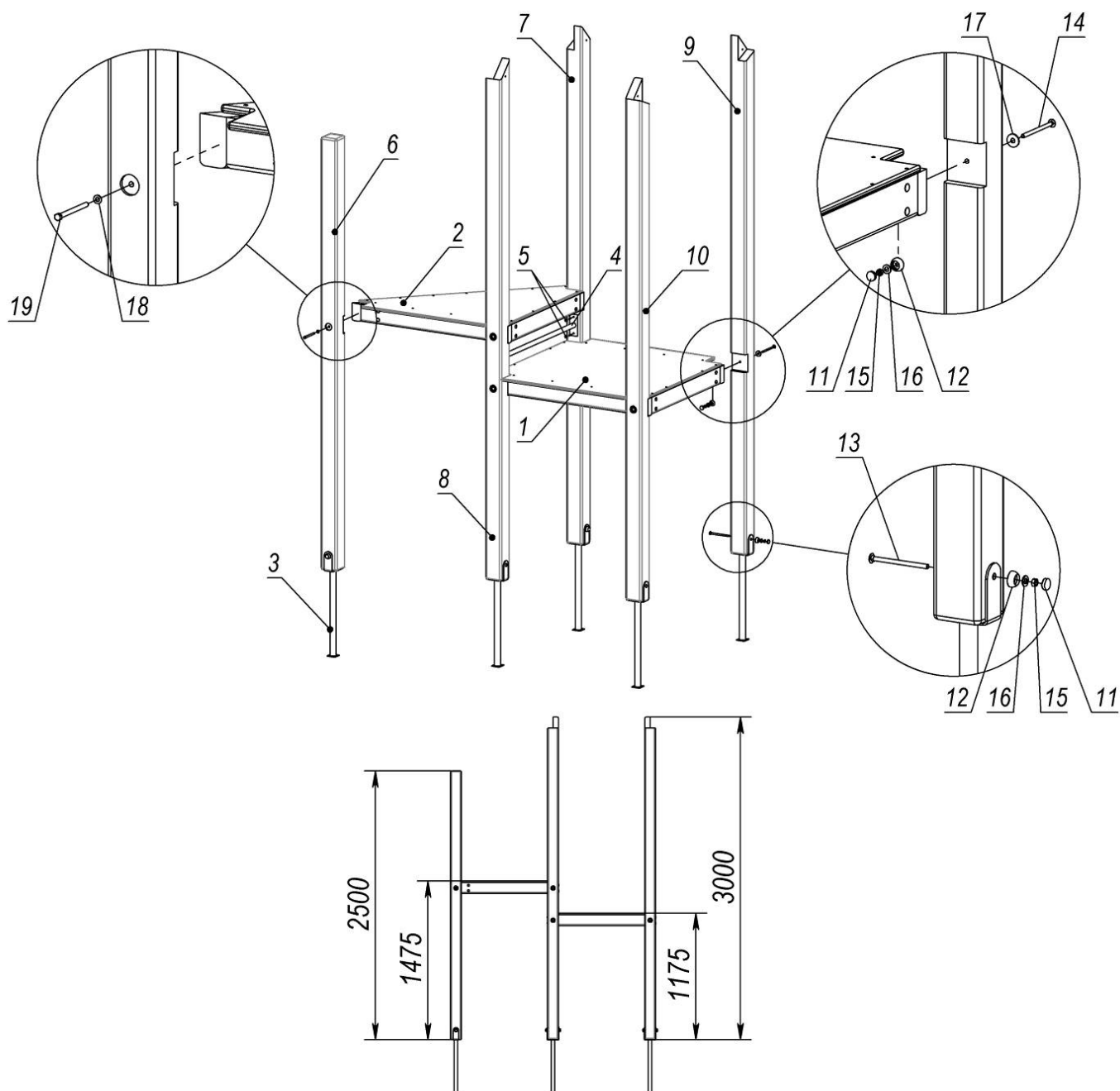
Pos.	Name	Weight, kg	Q-ty
11	Beam 2m (mortise 1.5m)	12	1
12	Cap M8		16
13	Cup M8		16
14	Bolt M8*120 GOST7802		7
15	Bolt M8*130 GOST7802		9
16	Nut M8 GOST5915		16
17	Washer 10 GOST11371		16
18	Washer 10 GOST6958		10

Picture 5 - Triple tower (1.2-1.2-1.5m). The tower is located under №2 in pic. 1



Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	6
2	Double site (1.9x1m)	35	1
3	Beam 3m (mortise 1.5m)	17	2
4	Beam 3m (mortise 1.5m)	17	2
5	Beam 2.5m (mortise 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

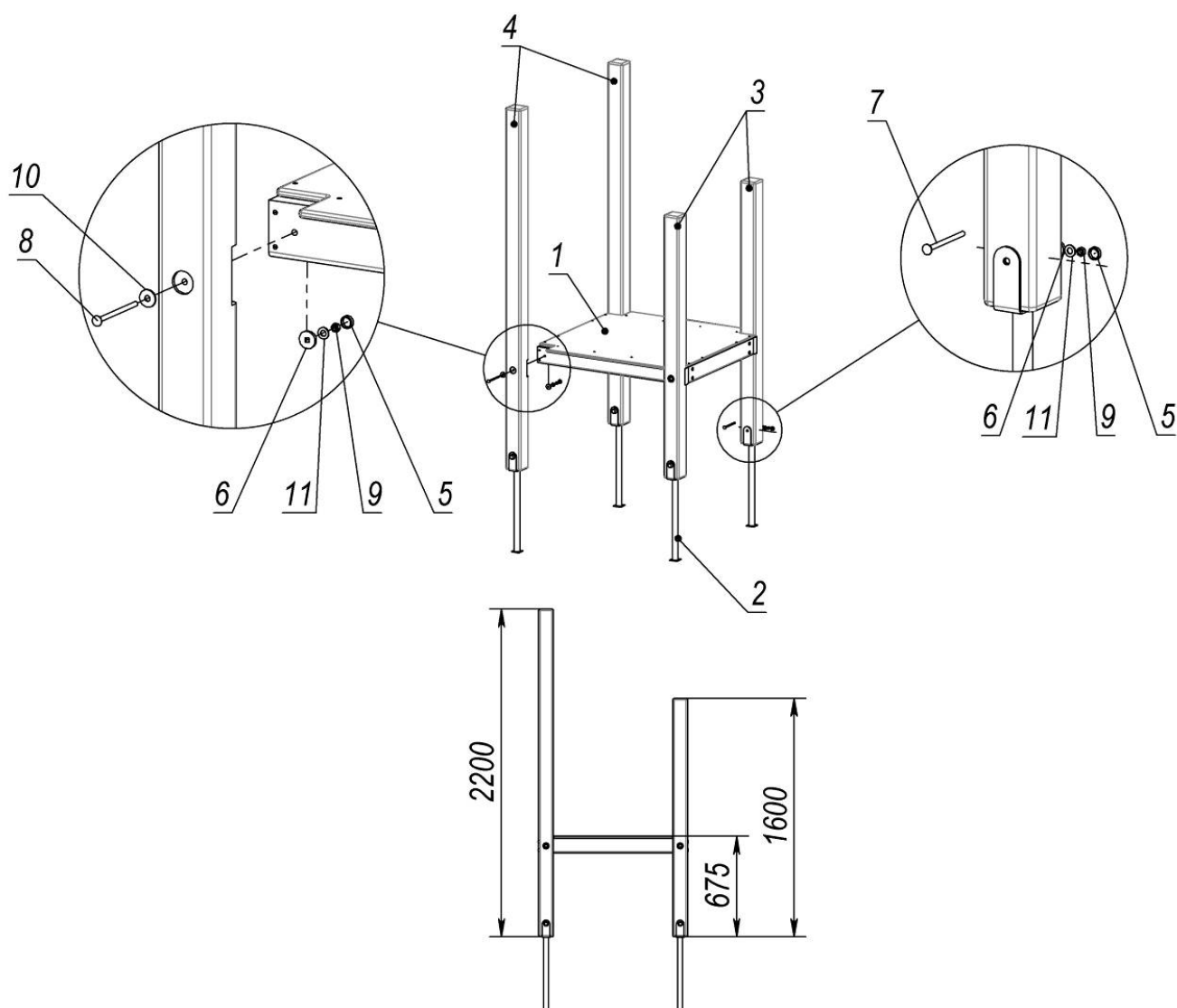
Picture 6 - Double 1.5m tower. The tower is located under № 3 in pic. 1



Pos.	Name	Weight, kg	Q-ty
1	Site 1x1 m	19	1
2	3-sided site	14	1
3	Beam support	2	5
4	Brace rod 0.8m	1	1
5	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		4
6	Beam 2.5m (mortise 1.5m)	15	1
7	Beam 3m (mortise 1.2 and 1.5m)	17	1
8	Beam 3m (mortise 1.2 and 1.5m)	17	1
9	Beam 3m (mortise 1.2)	17	1
10	Beam 3m (mortise 1.2)	17	1

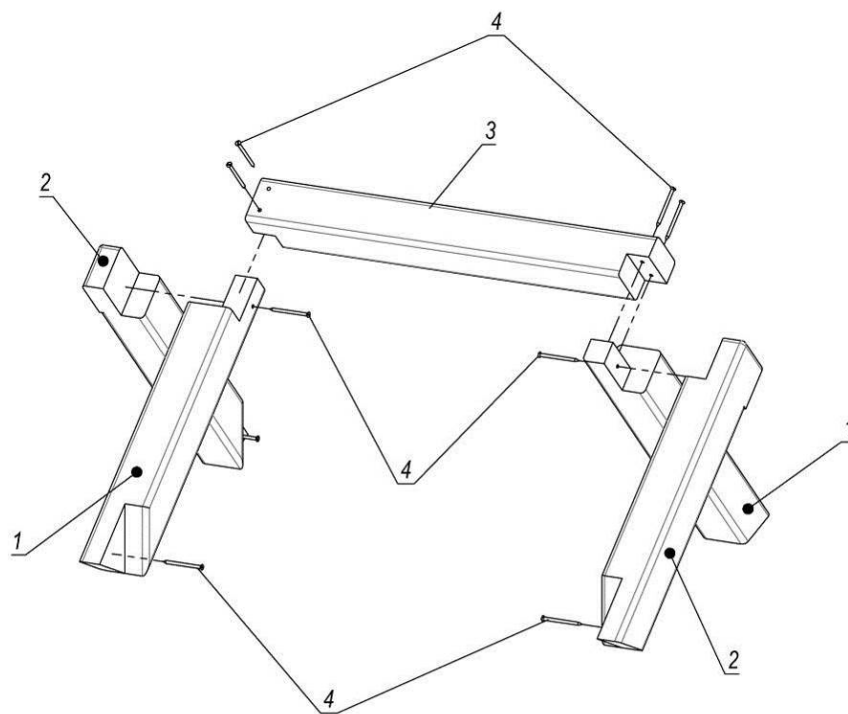
Pos.	Name	Weight, kg	Q-ty
11	Cap M8		11
12	Cup M8		11
13	Bolt M8*120 GOST7802		5
14	Bolt M8*130 GOST7802		6
15	Nut M8 GOST5915		11
16	Washer 10 GOST11371		11
17	Washer 10 GOST6958		6
18	Washer 8 GOST11371		1
19	Screw 8x110 GOST11473		1

Picture 7 - Double corner tower (1.2-1.5m). The tower is located under №4 in pic 1

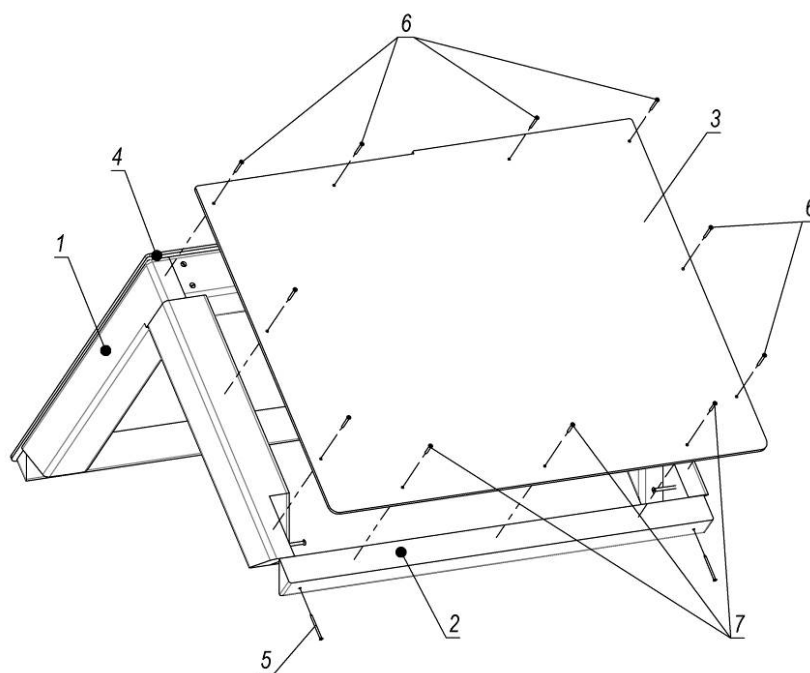


Pos.	Name	Weight, kg	Q-ty
1	Site 1x1m	19	1
2	Beam support	2	4
3	Beam 1.6 m (mortise 0.7m)	9	2
4	Beam 2.2 m (mortise 0.7m)	13	2
5	Cap M8		8
6	Cup M8		8
7	Bolt M8*120 GOST7802		4
8	Bolt M8*130 GOST7802		4
9	Nut M8 GOST5915		8
10	Washer 10 GOST6958		4
11	Washer 10 GOST11371		8

Picture 8 - Tower 0.7m (timber 1.6-2.2m). The tower is located under №5 in pic 1

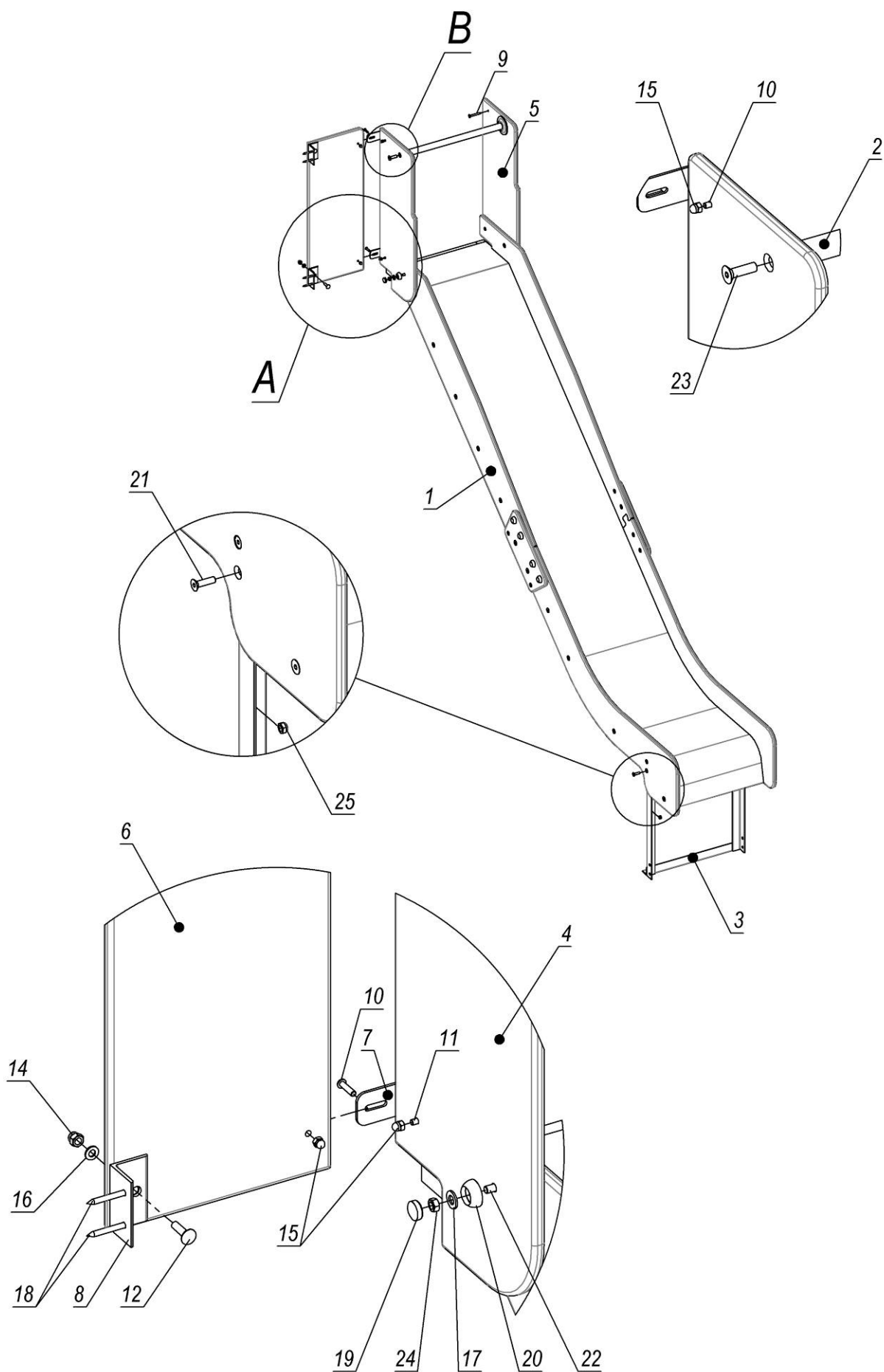


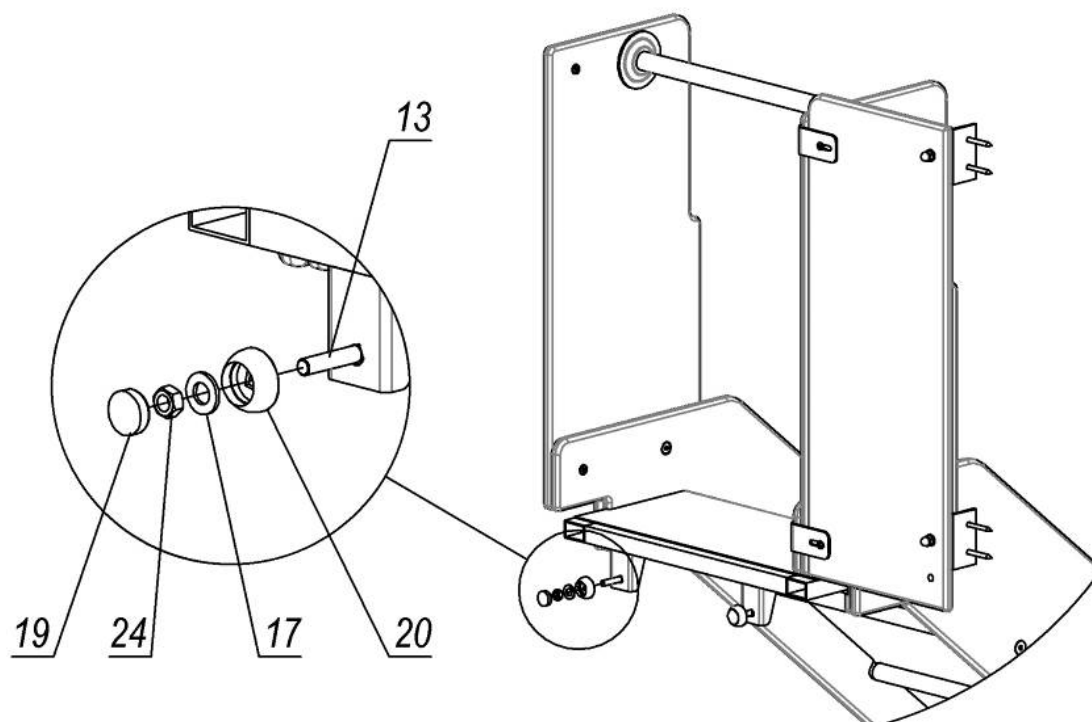
Pos.	Name	Weight, kg	Q-ty
1	Rear pediment		2
2	Front pediment		2
3	Ridge (100x100x900)	5	1
4	Screw 6x90 GOST1145		10



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

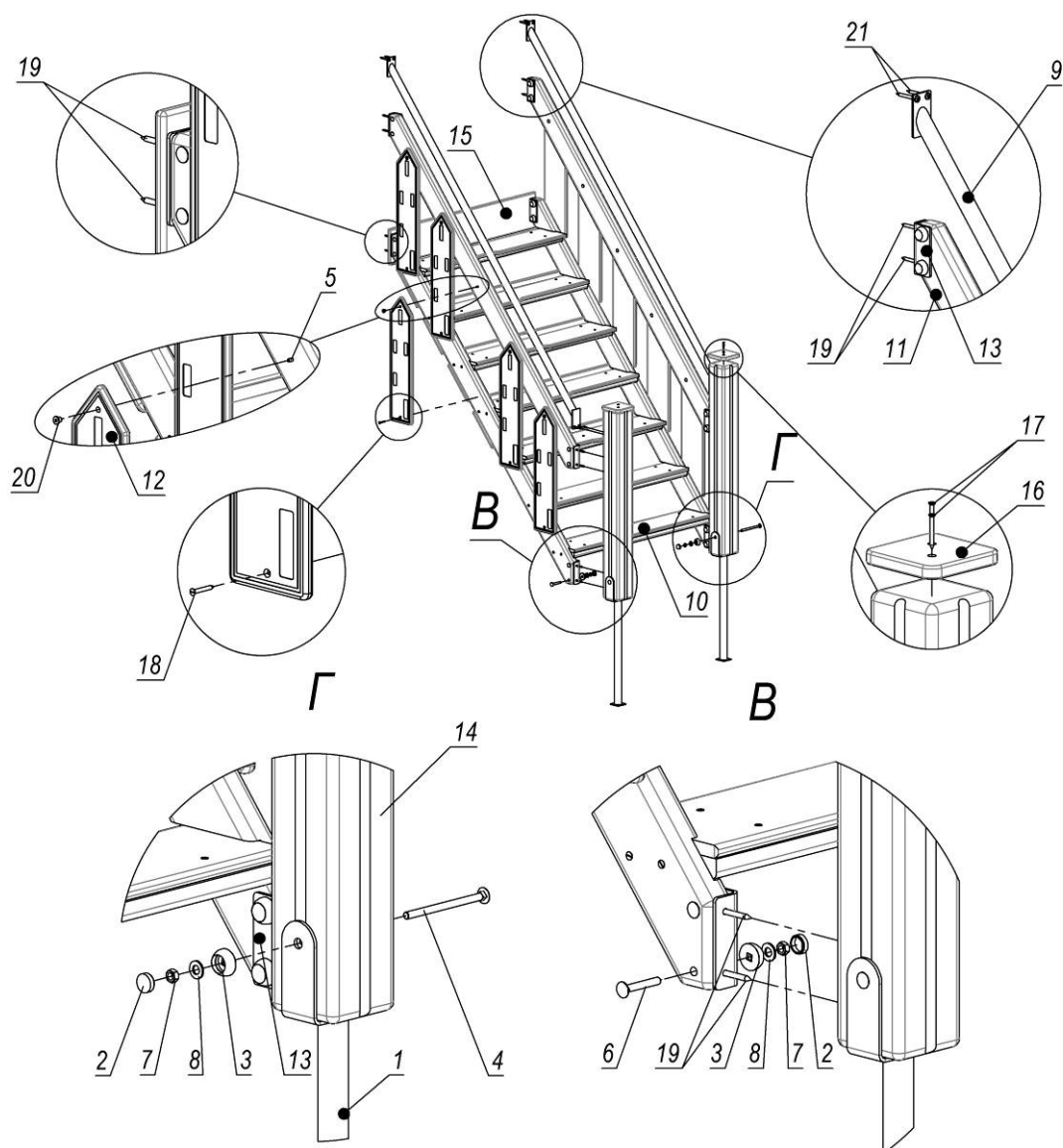
Picture 9 - Roof assembly scheme





Pos.	Name	Weight, kg	Q-ty
1	Slide 1.5 m		1
2	Brace rod 463 mm	1	1
3	Slide slip (angle)	5	1
4	Upper sidewall right	3	1
5	Upper sidewall left	3	1
6	Partition (275x705)		1
7	Slide angle		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*40 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

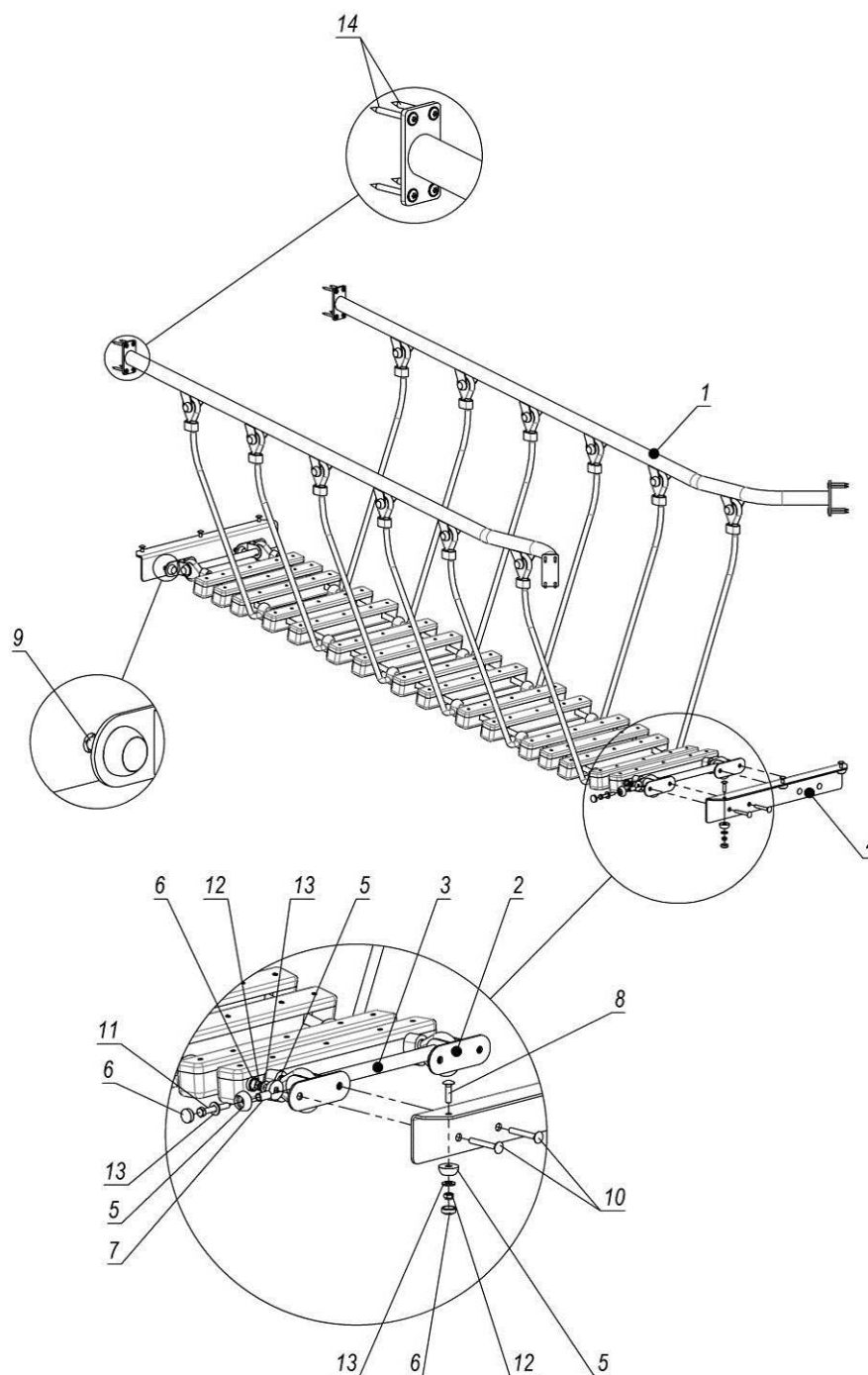
Picture 10 - Slide assembly scheme 1.5 m



Pos.	Name	Weight, kg	Q-ty
1	Beam support	2	2
2	Cap M8		18
3	Cup M8		18
4	Bolt M8*120 GOST7802		2
5	Bolt M6*50 GOST7802		10
6	Bolt M8*55 GOST7802		16
7	Nut M8 GOST5915		18
8	Washer 10 GOST11371		18
9	Handrail	4	2
10	Stairs 0.8m	41	1
11	Bottom handrail	4	2
12	Stairs sidewall	1	10

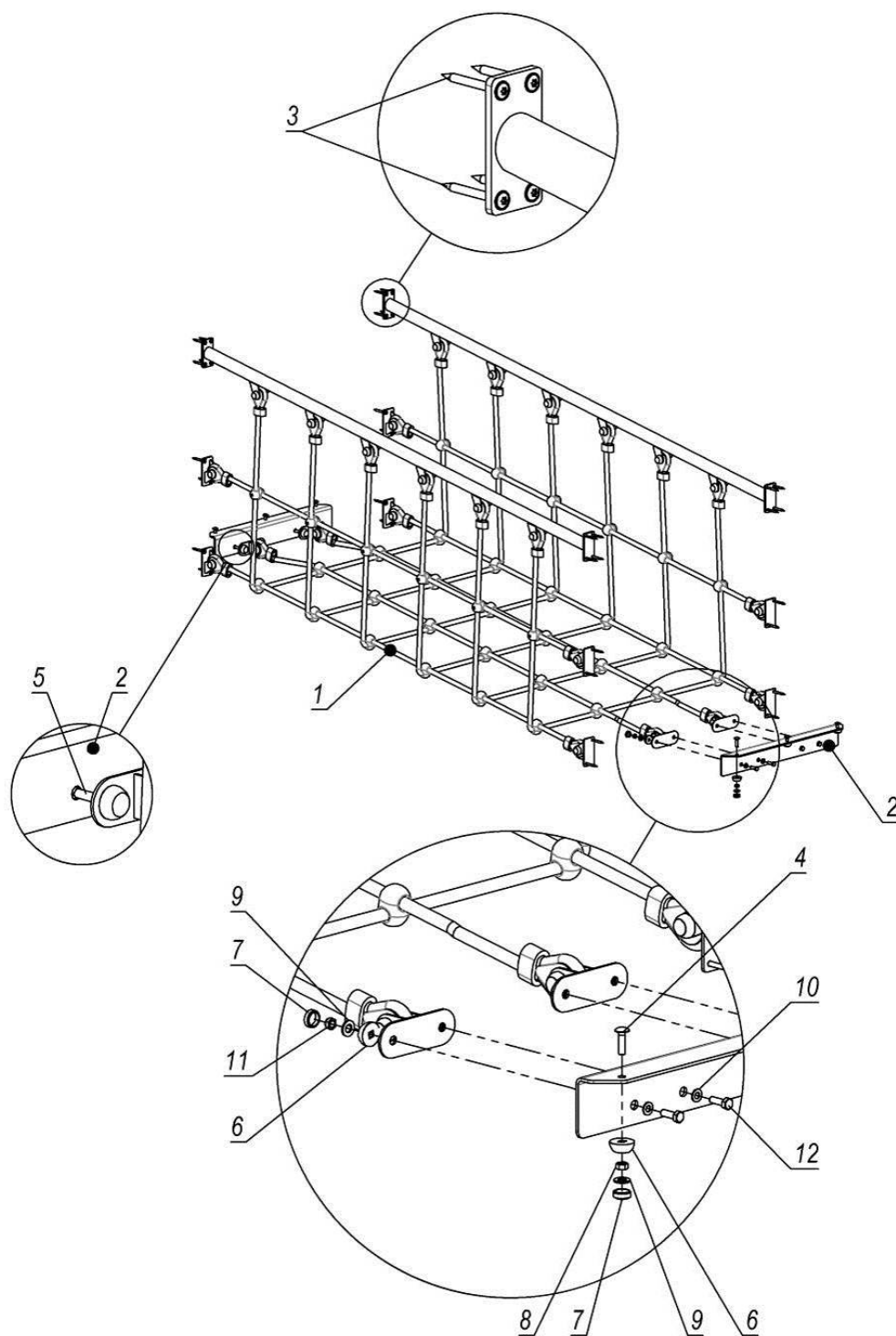
Pos.	Name	Weight, kg	Q-ty
13	Stairs bracket		8
14	Support 0.9m	5	2
15	Front stairs protection	2	1
16	Cap on bar		2
17	Screw 4x40 GOST1145		4
18	Screw 5x40 GOST1145		10
19	Screw 6x60 GOST1145		16
20	ERICSON nut RF M6x10x15x9		10
21	Screw 6.0x60 SPAX T-STAR plus with press washer (univers.)		8

Picture 11 - Assembly scheme of wooden stairs



Pos.	Name	Weight, kg	Q-ty
1	Angle rope bridge 0.95x1.9	33	1
2	Bracket for thimble		4
3	Screed-limiter DN15		2
4	Fastening flange 580 mm	2	2
5	Cup M8		18
6	Cap M8		18
7	Tube d12x1.5 GOST 10704, L=22 mm		6
8	Bolt M8*30 GOST7802		6
9	Bolt M8*45 GOST7802		4
10	Bolt M8*60 GOST7802		4
11	Bolt M8*55 GOST7802		4
12	Nut M8 DIN985		14
13	Washer 10 GOST11371		18
14	Screw 6.0x60 SPAX T-STAR plus (univers.)		16

Picture 12 - Assembly scheme of the angled rope bridge



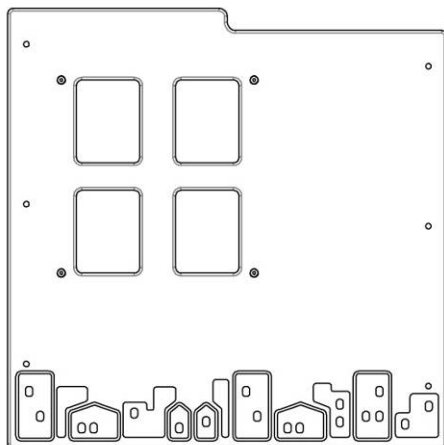
Pos.	Name	Weight, kg	Q-ty
1	Rope bridge 0.95x1.9	30	1
2	Fastening flange 580 mm	2	2
3	Screw 6.0x60 SPAX T-STAR plus (univers.)		32
4	Bolt M8*30 GOST7802		6
5	Bolt M8*60 GOST7802		4
6	Cup M8		14
7	Cap M8		14
8	Nut M8 GOST5915		6
9	Washer 10 GOST11371		14
10	Washer 8 GOST11371		4
11	Nut M8 DIN985		8
12	Bolt M8*25 GOST 7798		4

Picture 13 - Assembly scheme of the rope bridge

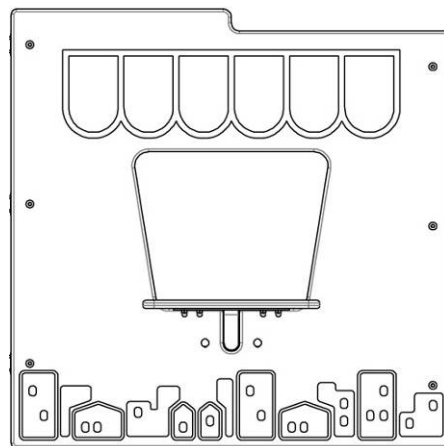
Appearance of the Panels

Installation scheme and their location can be found in the Appendix

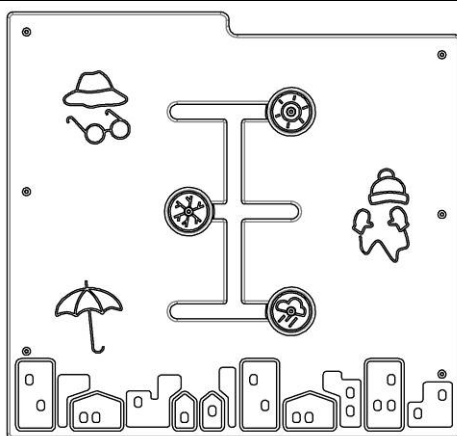
Panel (Misto) with a window



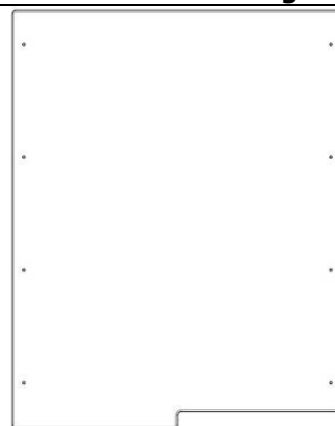
Panel «Showcase»



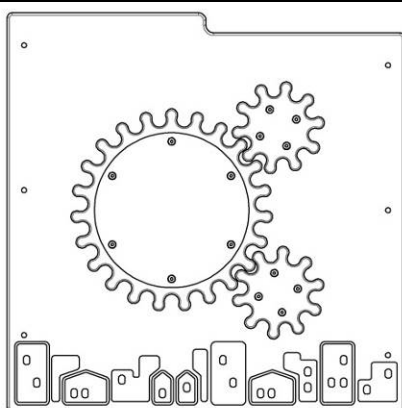
Panel «Puzzle»



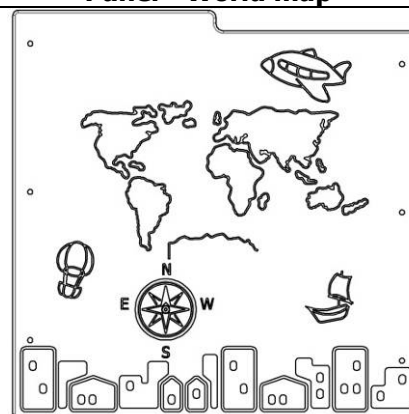
Panel for drawing



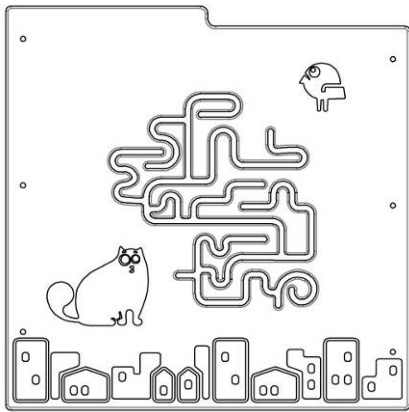
Panel «Gear wheels»



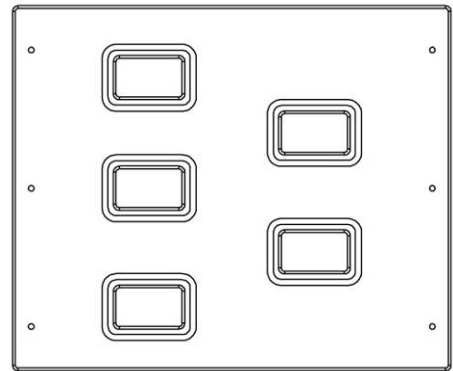
Panel «World map»



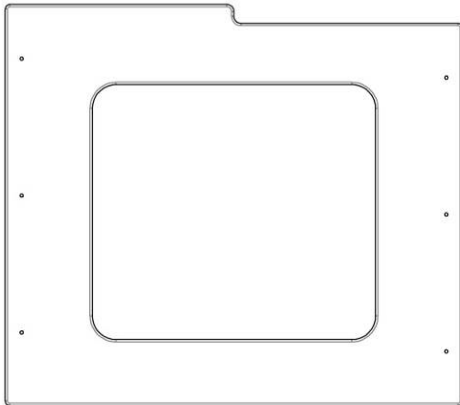
Panel «Labyrinth»



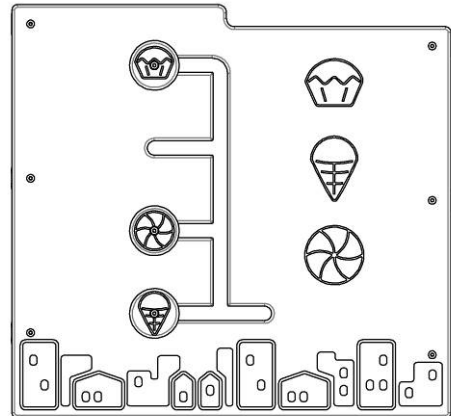
Panel «Track »



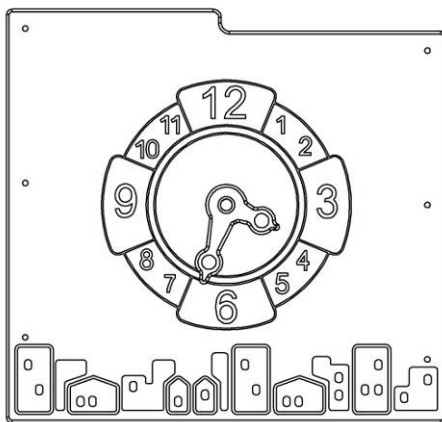
Panel «Hole»

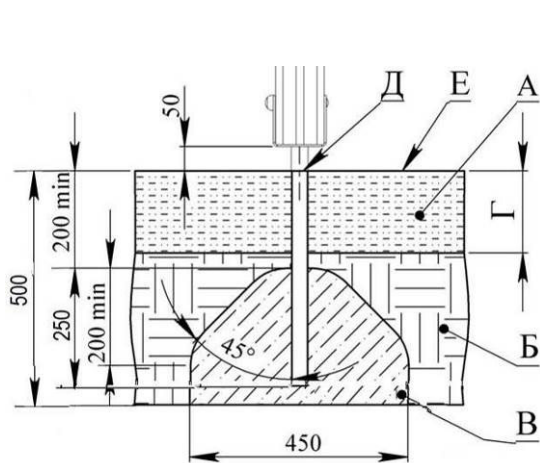


Panel «Sweets »

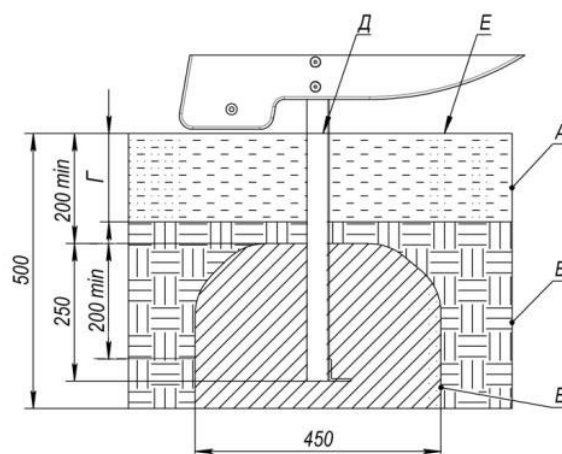


Panel «Clock»





For beam supports and other elements



for the slides of the complex

A - shock-absorbing coating;

B – soil;

B – concrete;

Γ - depth of the shock absorbing coating;

Д - product level plane;

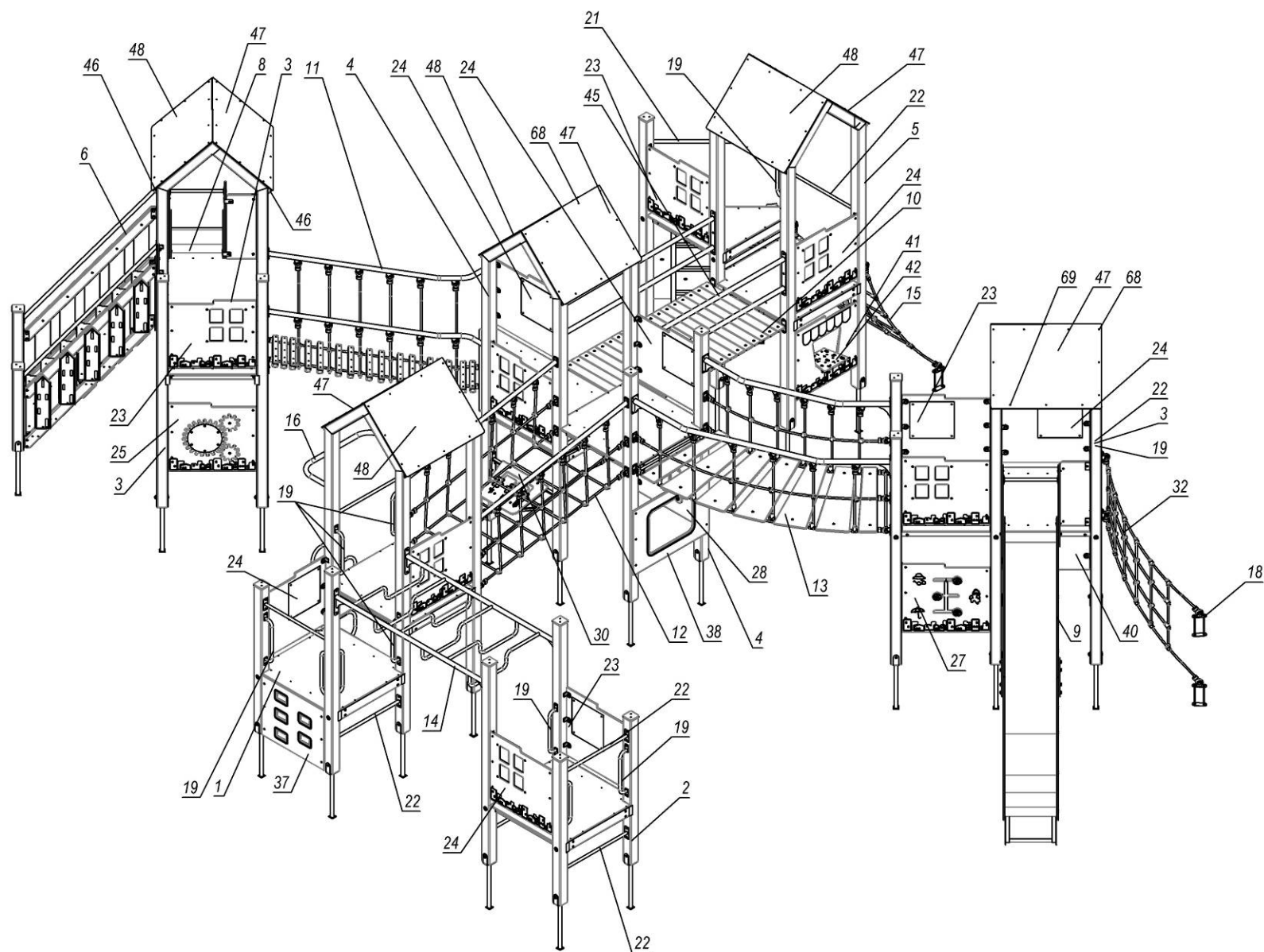
E – game surface.

Examples of impact-absorbing coatings

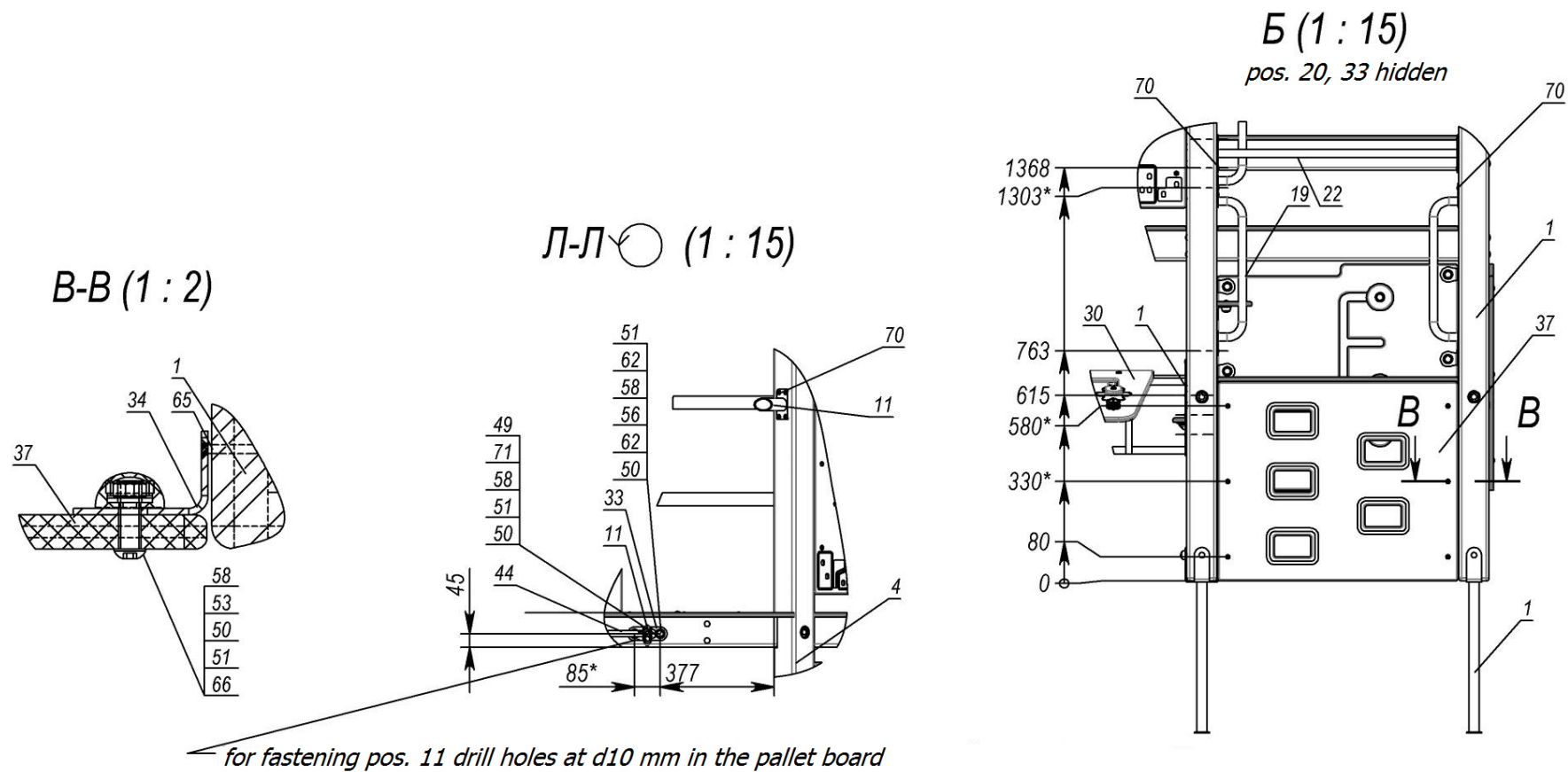
Material ¹	Description	Minimal depth, mm	Fall height, mm
Turf			≤ 1000
Tree bark	grain size 20-80 mm	200	≤ 2000
		300	≤ 3000
Sawdust	grain size 5-30 mm	200	≤ 2000
		300	≤ 3000
Sand ²	grain size 0.2-2 mm	200	≤ 2000
		300	≤ 3000
Gravel ²	grain size 2-8 mm	200	≤ 2000
		300	≤ 3000
Another material	HIC tested 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 14 - Concreting scheme

Appendix



Picture 15

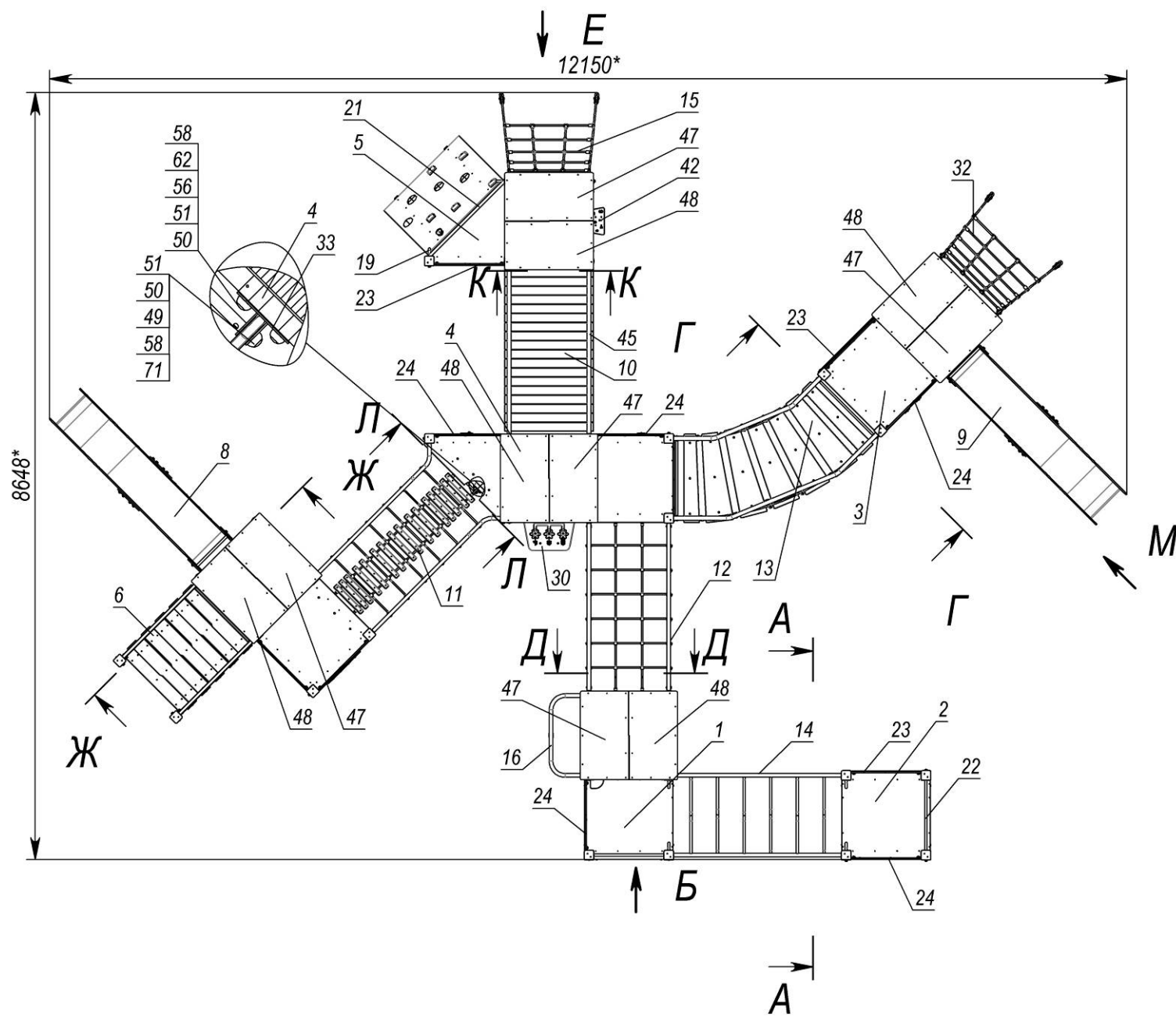


1. To fasten the elements of the complex using screws pos. 70, drill holes d3-5 mm in place.
2. Fasten the unmarked panels of the complex with the help of angles pos. 34 similarly to view B-B.
3. Unspecified fasteners to the overlapping bars - with screws pos. 70.
4. Fastening of elements on the tower of item 2 - similar to type A-A.

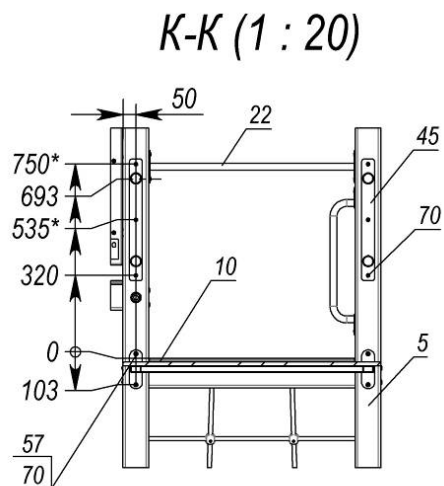
Picture 16

Pos.	Name	Weight, kg	Q-ty	Pos.	Name	Weight, kg	Q-ty
1	Double tower 0.7-1.2m	139	1	37	Panel "Track"	7	1
2	Tower 0.7m (beam 1.6-2.2m)	70	1	38	Panel "Hole"	6	1
3	Double tower 1.5m	143	2	39	Panel for drawing 1x1.25	13	1
4	Triple tower 1.2-1.2-1.5m	174	1	40	Panel "Labyrinth" 0.75 m	8	1
5	Corner double tower (1.2-1.5m)	127	1	41	Panel "Showcase" 0.75 m	7	1
6	Wooden stairs 1x1.5 m assembly	87	1	42	Table with numbers		1
7	Roof	19	5	43	Showcase angle bar		2
8	Slide 1.5 m assembly	60	1	44	Screed-limiter		2
9	Slide 1.5 m assembly	60	1	45	Straight railings	12	2
10	Straight bridge	39	1	46	Bar 970 mm		10
11	Straight bridge corner 0.95x1.9	33	1	47	Roof slope (775x1000)	5	5
12	Rope bridge 0.95x1.9	30	1	48	Roof slope (775x1000)	5	5
13	Rope crossing 1.9 m arch	71	1	49	Tube d12x1.5 GOST 10704, L=22mm		14
14	Monkey bar 1.9 m	23	1	50	Cap M8		196
15	Rope ladder 1.2 m	5	1	51	Cup M8		196
16	Step ladder 1.2 m	16	1	52	Bolt M8*45 GOST 7798		8
17	Rope bracket		4	53	Nut M8 GOST5915		162
18	Rope embedded element		4	54	Cap nut M6 DIN1587		8
19	Handle		15	55	Cap nut M8 DIN1587		4
20	Ascent of the climber 1.5 m side		1	56	Nut M8 DIN985		22
21	Corner brace rod 1.2 m	3	18	57	Washer 8 GOST11371		8
22	Brace rod 0.8 m	1	4	58	Washer 10 GOST11371		195
23	Panel with a window	8	11	59	Washer 12 GOST6958		8
24	Panel with a window	8	1	60	Bolt M8*30 GOST7802		12
25	Panel "Gear wheels" 0.75 m assembly	12	1	61	Bolt M8*55 GOST7802		2
26	Panel "World map" 0.75 m assembly	8	1	62	Bolt M8*60 GOST7802		16
27	Panel "Puzzle" 0.75 m assembly	8	1	63	Bolt M8*120 GOST7802		8
28	Panel "Sweets" 0.75 m assembly	8	1	64	Stud M6x25 DIN 7991		8
29	Panel "Clock" assembly	8	1	65	Screw 4x40 GOST1145		304
30	Game console 0.8 m	9	1	66	Stud M8x30 ISO7380		142
31	Fencing-plastic 0.8 m	13	1	67	Screw 4x60 GOST1145		20
32	Rope ladder 1.5 m	5	1	68	Screw 4x40 GOST1144		80
33	Bracket for thimble		4	69	Screw 4x30 GOST1144		30
34	Corner bracket 40x60		138	70	Screw 6.0x60 SPAX T-STAR plus (univers.)		208
35	Cap on bar		14	71	Bolt M8*55 GOST 7798		4
36	Fastening flange 580 mm	2	4				

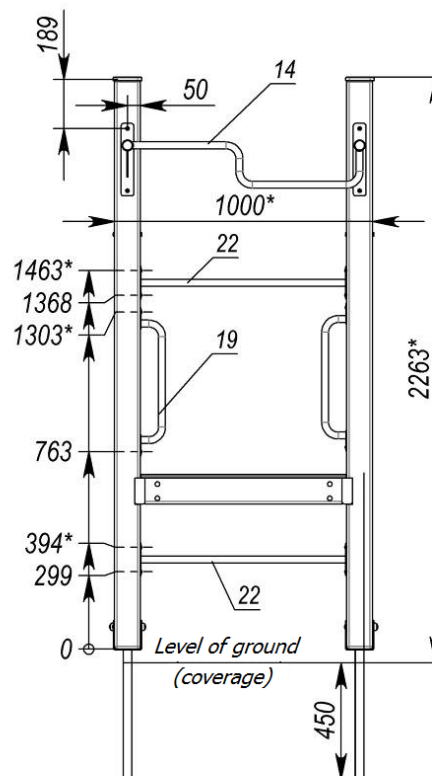
Picture 17



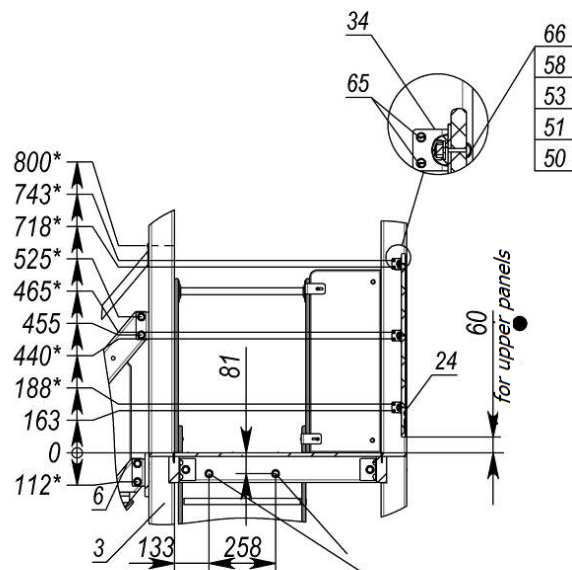
Picture 18



A-A (1 : 20)

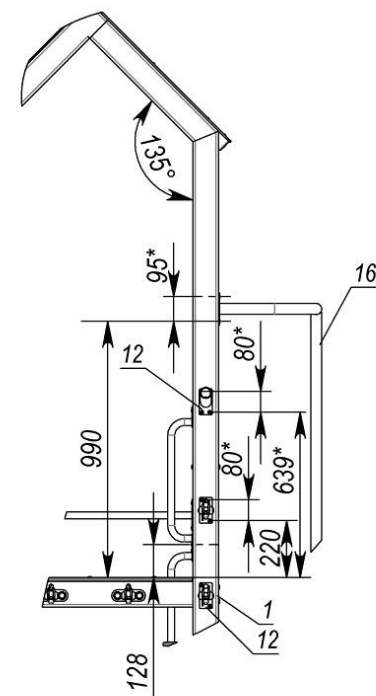


Ж-Ж (1 : 20)

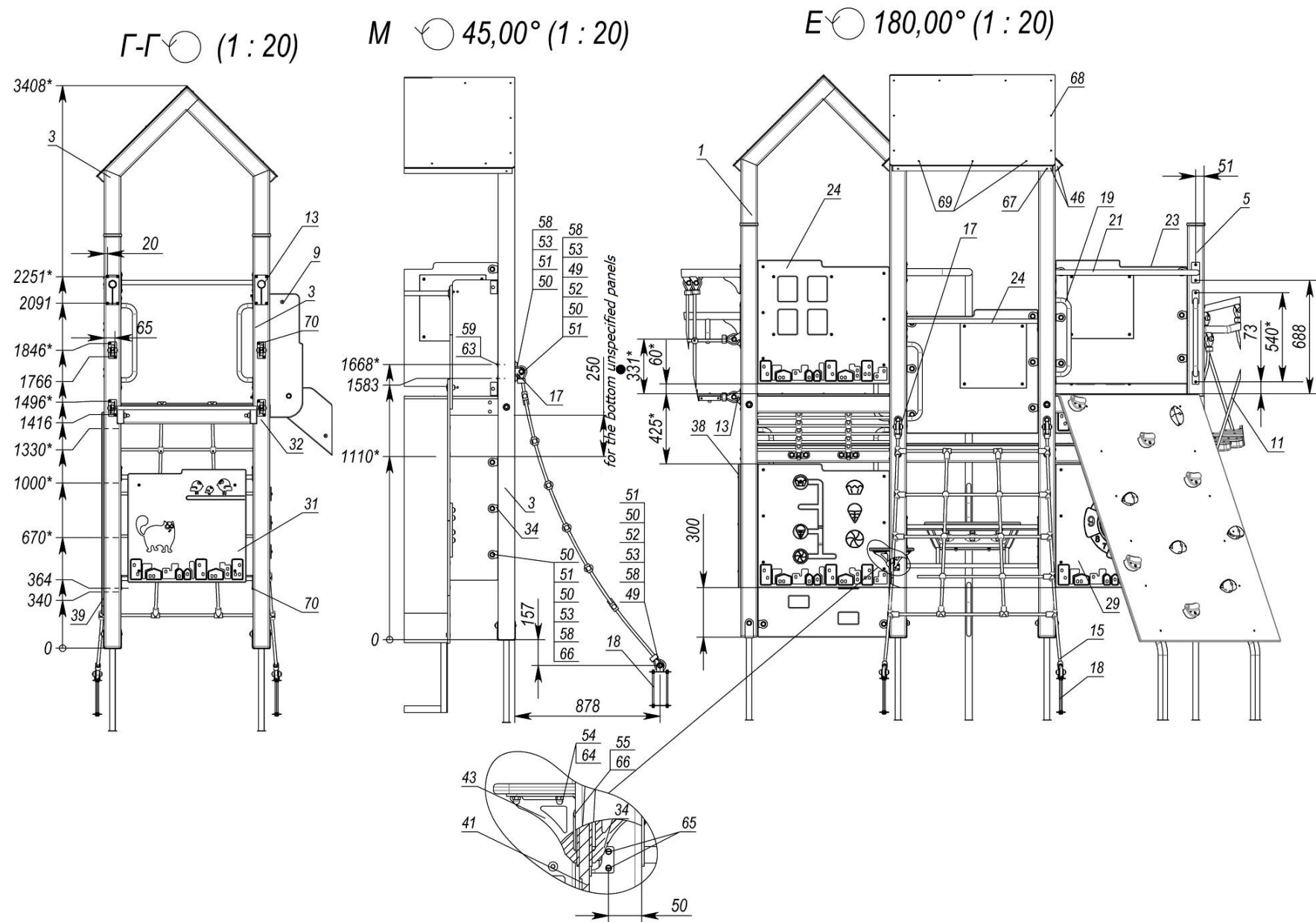


for fastening pos. 8 drill hole d10 mm in place

Д-Д (1 : 20)



Picture 19



Picture 20