

interatletika™

PRODUCTION AND SALE OF SPORTS GOODS

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LK102-VIKSNGS- IK "Viking Tower"
LK112-VIKSNGS -IK " Travel around Scandinavia"
LK113-VIKSNGS -IK " Viking Trail"

DATASHEET



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FOR NOTES

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1. GENERAL INFORMATION

- 1.1 Article number _____.
- 1.2 Name _____.
- 1.3 Manufacturer: Sporttehnika Company LLC, Ukraine, Chernihiv, 78 Ivana Mazepy St.
- 1.4 Serial number and date of manufacture: _____, «____» _____ 20__p
- 1.5 Manufactured in accordance with regulatory documents: TU U 28.9-31597759-001:2012.
- 1.6 The product is intended for children and creates conditions for:

- physical development of the child;
- development of coordination of movements, overcoming the fear of heights, development of agility and courage, a sense of collectivism in team games.

The manufacturer may make changes to the design of the product to improve its characteristics, change the design, etc. This document may not contain a description of such changes, but applies to such modified products.

2. TECHNICAL DATA

	LK102-VIKINGS	LK112- VIKINGS	LK113-VIKINGS
Length, mm	2960	4378	3949
Width, mm	1675	2764	3564
Height, mm	3000	2450	3000
Drop height, mm	1230	730	1230
Weight, kg	205	429	455
Age range, years	3....7		
Weight restrictions, kg	to 60		

3. COMPLETION

The scope of delivery of the product is given in the Data Sheet and the Hardware Package supplied with the product.

4. EXAMINATION AND CHECK

Before starting to use the product, conduct a visual inspection of the product, checking the integrity of the paintwork, fasteners and structural strength.

If there are concrete support parts of the product, make sure that they are securely fixed and do not move.

Check that the equipment and site are free of packaging materials, construction debris and other foreign objects.

Check the proper condition of shock-absorbing surfaces on the playground.

5. MAINTENANCE

Timely maintenance of the product is the responsibility of the buyer (or a responsible person) and includes:

1. Daily inspection - before using the product, checking its performance, visual inspection for the absence of breakdowns, damage, sharp edges on components and parts, structural integrity, strength of wooden structures and element connection points, absence of unnecessary objects on the platforms. In the event of product breakdowns, complete or partial inoperability, or other defects, the use of the product is prohibited. 2. Плановий огляд – проводиться кожні три місяці.

It involves a detailed visual and operational inspection of the operation and stability of the equipment, especially with regard to any wear and tear.

The inspection should include

- the cleanliness and appearance of the playground surface and equipment;
- compliance with the distances from equipment parts to the surface of the playground;
- the absence of protruding parts of the foundations;
- absence of defects/malfunctions of equipment elements;
- wear and tear of moving parts;
- structural integrity of the equipment.

Particular attention should be paid to hidden and inaccessible parts of the equipment.

3. Annual inspection - carried out every 12 months to establish the overall level of safety of the equipment.

In the process of visual and functional inspections, the following are determined

- structural stability;
- integrity of the foundation base;
- strength of the joints of the product elements;
- wear and tear of sliding surfaces and grippers;

Particular attention should be paid to

- Assessment of the impact of weather phenomena;
- the presence of rotting or corrosion;
- parts that are not accessible during the entire period of operation.

The results of the inspection, repair or replacement of equipment components should be recorded in the maintenance record sheet.

Maintenance accounting

Date and type of inspection	Name of the work performed	Notes on the technical condition	Position, name, signature of the responsible person

6. INSTRUCTIONS FOR SAFE EXPLOITATION

WARNING. Children must be supervised by an adult when using the equipment.

Before starting to use the product, a visual inspection is carried out, checking the fasteners and structural strength.

The equipment is used on playgrounds without constant supervision by operating personnel. In order to ensure safe operation of the product, the owner must conduct a daily visual inspection. If malfunctions are detected during the inspection, they must be immediately eliminated, and if this is not possible, the equipment must be closed to children.

The surface of the playground should be free of foreign objects, sharp elements, protrusions.

Under the playground equipment with a free fall height of more than 600 mm, an impact-absorbing coating must be provided throughout the entire fall zone. If the free fall height is less than 1000 mm, an impact-absorbing turf covering is allowed.

Examples of shock-absorbing coatings

Material ¹	Description	Minimum depth, mm	Drop 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
Other materials ³	Characteristics of the tested material		Critical drop height obtained during testing
1. The materials are specially prepared for playgrounds. 2. There should be no clay inclusions. 3. The grain size is obtained by sieving through a sieve according to DSTU EN933-1.			

WARNING. Using the product without an shock-absorbing coating can result in severe injuries in the event of a fall.

Playground surface materials with low shock absorption properties are used only outside the fall zone.

Exploitation of the product:

- It is recommended to show or tell children how to use the equipment;
- during use, it is recommended to hold onto handrails, railings, handles;
- Do not use the product until its complete and final installation is completed;
- use by users of a different age and weight category is prohibited;
- Before use, the safety zone must be cleaned of foreign objects, sharp elements, protrusions;
- Do not move the product elements that are not intended for this purpose;
- do not use in difficult weather conditions (ice, snow, rain, hail, strong wind, etc.), in which there is a possibility of injury to the child.

The manufacturer is not responsible for the consequences:

- poor quality and improper installation of the product;
- the use of low-quality materials and inadequate qualifications of personnel when installing the product;
- operation of the product earlier than the period necessary to fix the product in the ground or other material;
- structural modifications to the product that caused injury;
- lack of proper supervision by adults;
- violation of age and weight restrictions by users;
- damage to the product due to improper storage, installation or use of the product for other purposes.

7. ASSEMBLY INSTRUCTIONS

The product can be installed by the manufacturer, service centre or other legal entities and individuals who have the necessary material and technical facilities and qualifications.

Installation of the product is carried out on a prepared flat area, free from debris, trees and other obstacles that interfere with the installation (when installing in winter, the area must be additionally free from snow). The required size of the site is determined by the fall zone of the equipment. When installing in winter on natural ground, it is recommended to select a site with compacted soil in the area of the foundations.

The height difference of the prepared site should be

a) no more than 50 mm for natural substrates, including substrates with subsequent shock-absorbing coating.

b) no more than 10 mm for hard substrates (asphalt, concrete), including substrates with subsequent application of a synthetic protective coating.

Before starting the installation it is necessary to

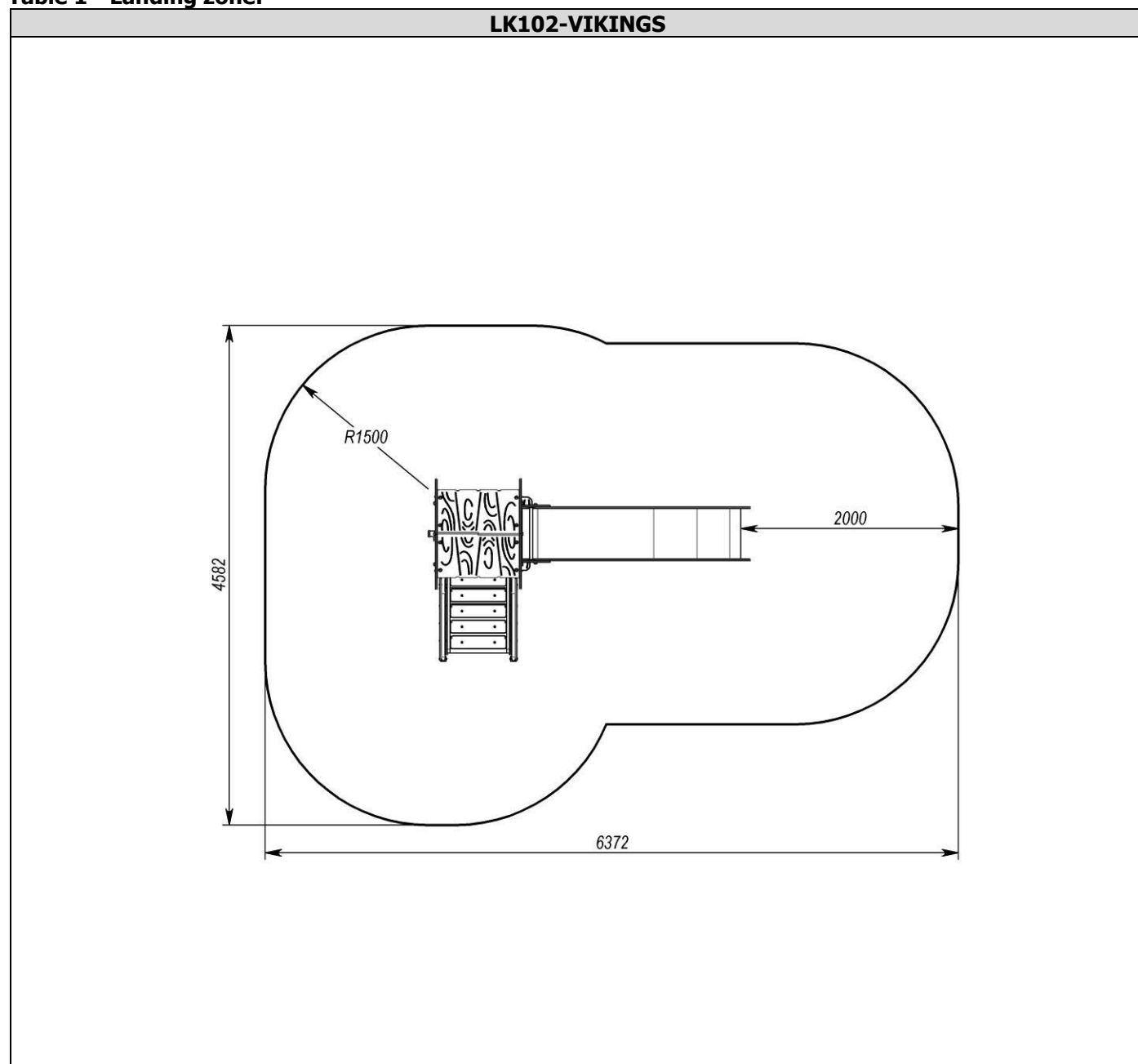
- study the documentation supplied with the product;
- check the completeness in accordance with the documents supplied with the product;
- remove the original packaging from the component parts;
- comply with safety requirements.

To avoid wood cracking, for screws with a diameter of more than 4 mm, drill holes with a diameter of 0.6...0.7 mm to a depth of 0.8 of the screw's length.

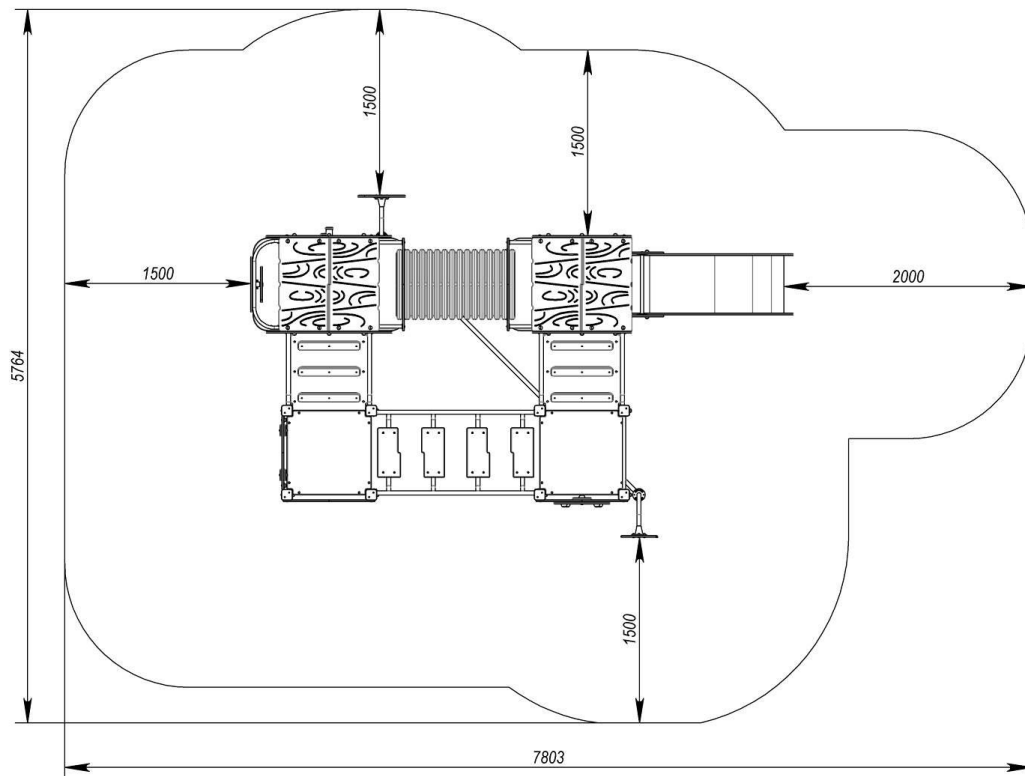
WARNING. Children are not allowed to be present or participate in the installation of the product.

The product should be installed in a step-by-step manner, following the instructions given in the annex.

Table 1 - Landing zone:



LK112-VIKINGS



LK113-VIKINGS

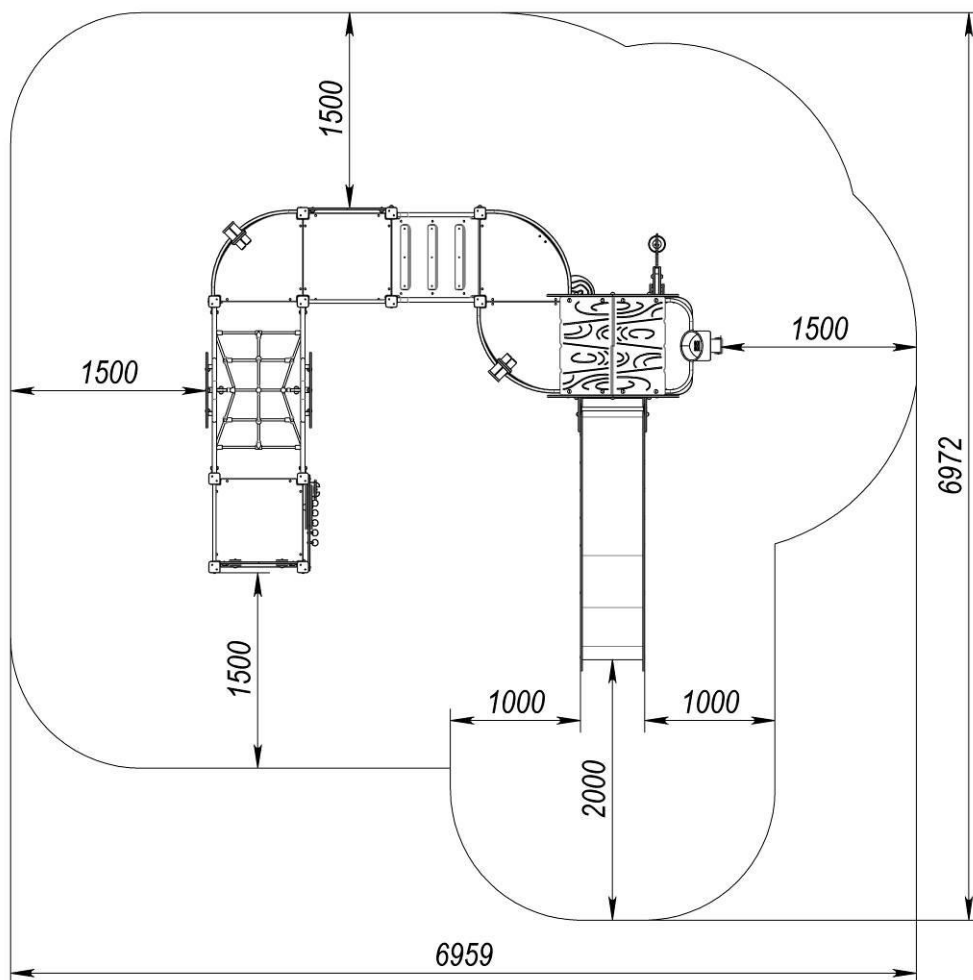
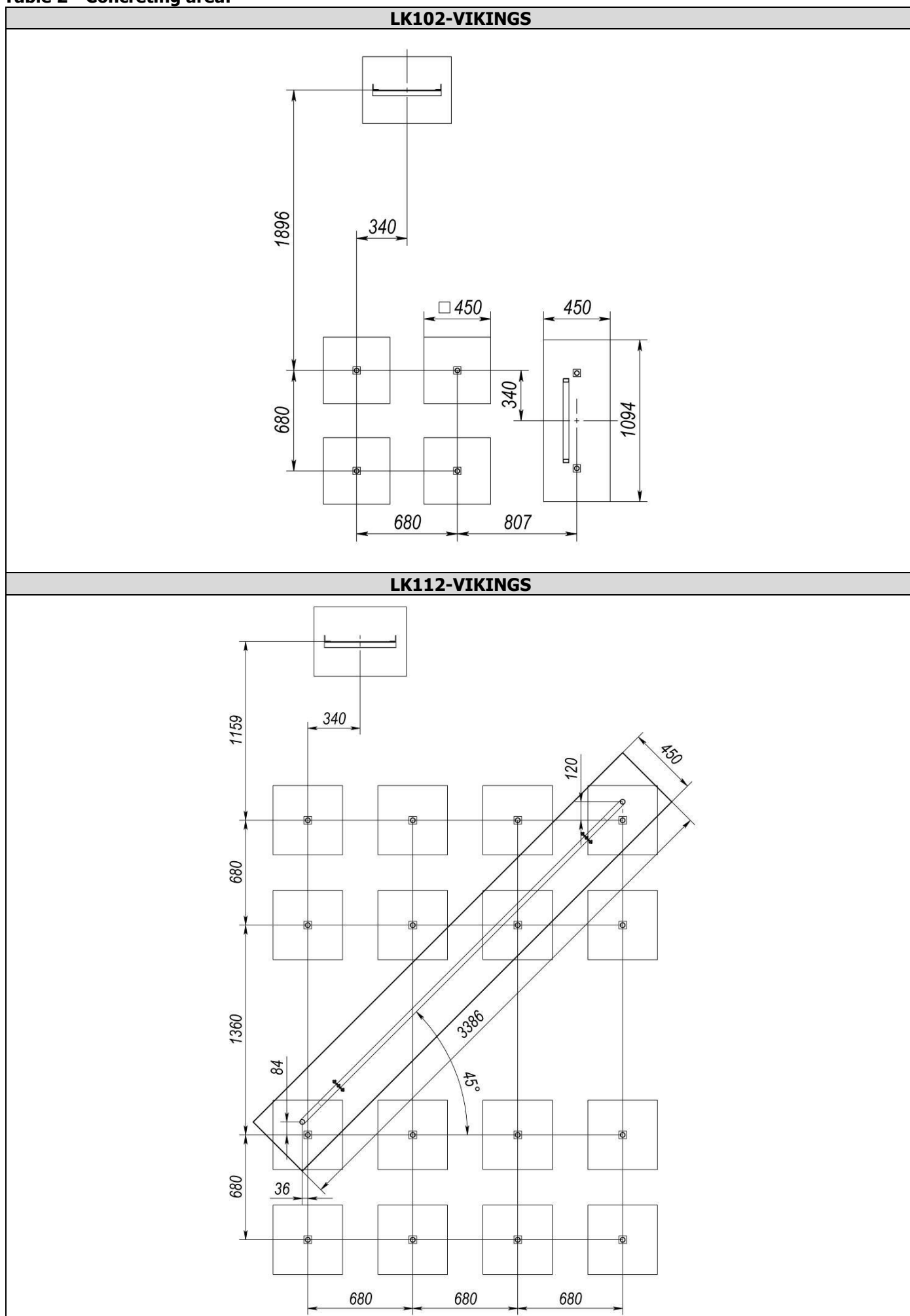
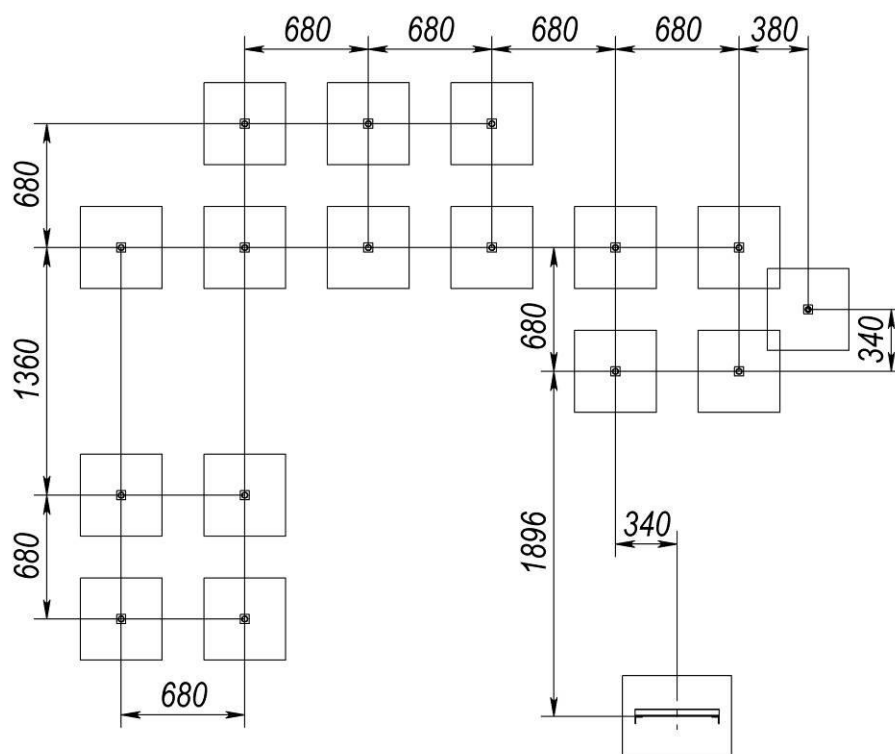
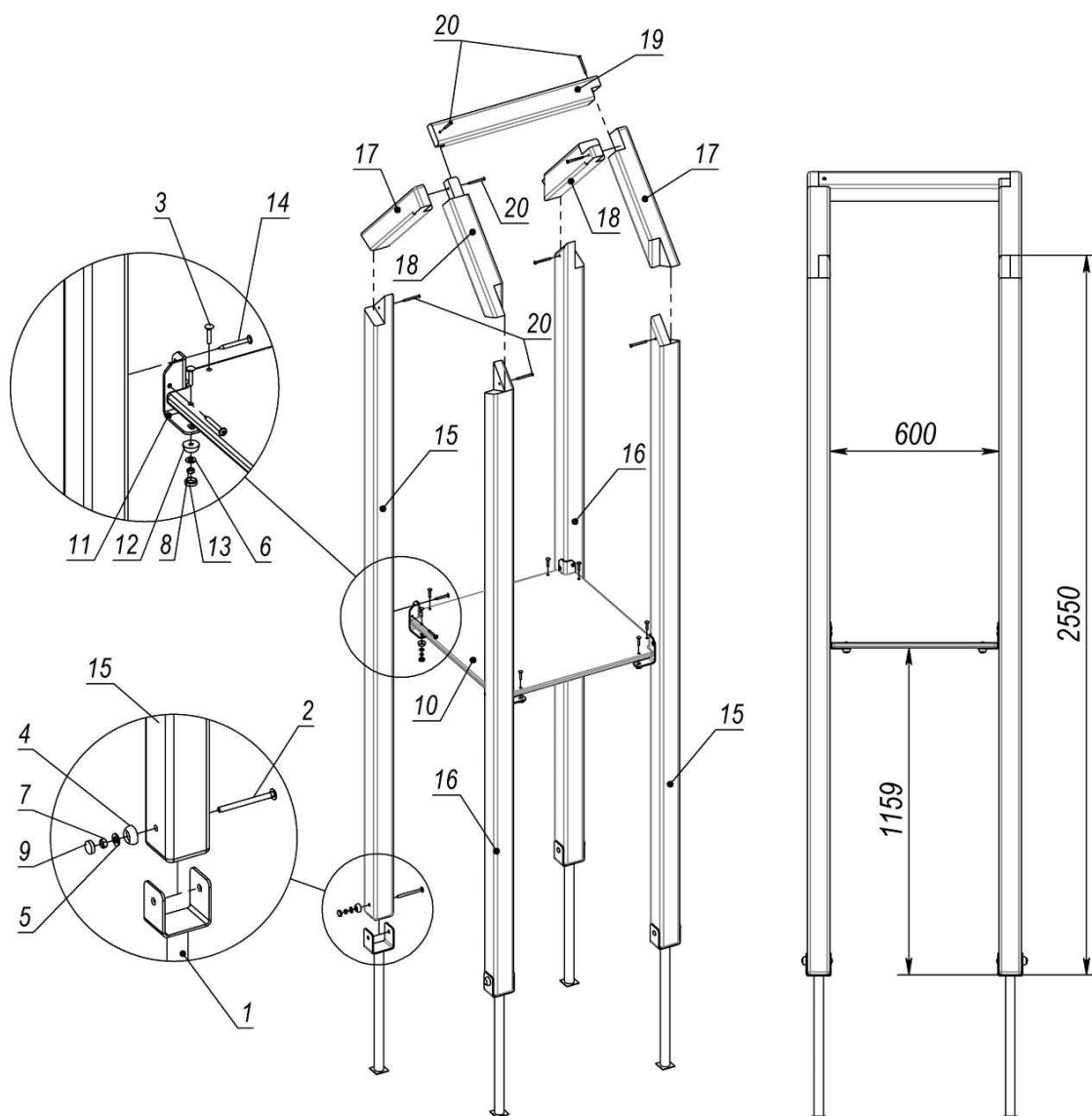


Table 2 - Concreting area:





«Assembly schemes»
Additional assembly scheme in the «Annex»



Not.	Name	Weight	Number	Not.	Name	Weight	Number
1	Bond	2	4	11	Platform bracket		4
2	Bolt M8*100 GOST7802		4	12	Glass M6		8
3	Bolt M6*30 GOST7802		8	13	Cap M6		8
4	Glass M8		4	14	Screw 6,0x60 SPAX T-STAR plus with press washer (universal)		8
5	Washer 10 GOST11371		4	15	Rack 2,55m	9	2
6	Washer 8 GOST11371		8	16	Rack 2,55m	9	2
7	Nut M8 GOST5915		4	17	Front gable	2	2
8	Nut M6 GOST5915		8	18	Rear gable	2	2
9	Cap M8		4	19	Plate 0,68	2	1
10	Platform (0,68x0,68)	6	1	20	Screw 6x70 GOST1145		8

Figure 1 - Assembly scheme of the 1.23 m tower for LK102-VIKINGS, LK113-VIKINGS

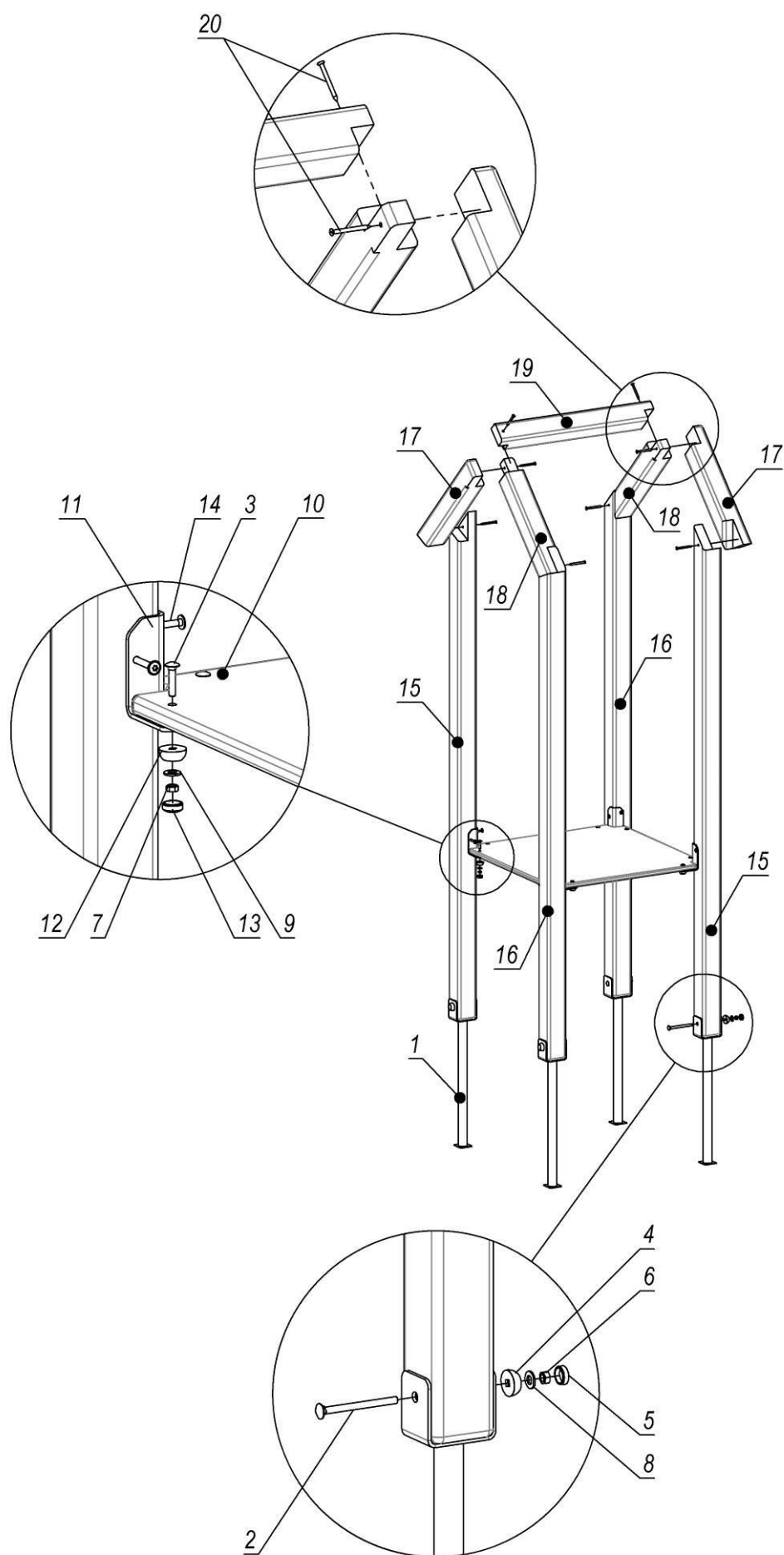
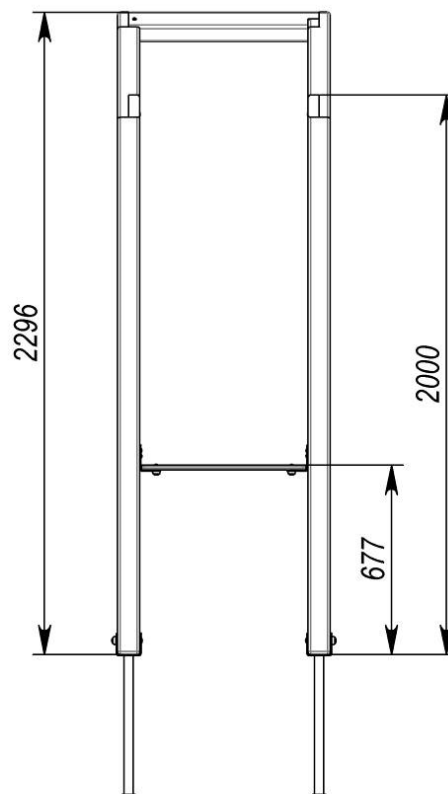
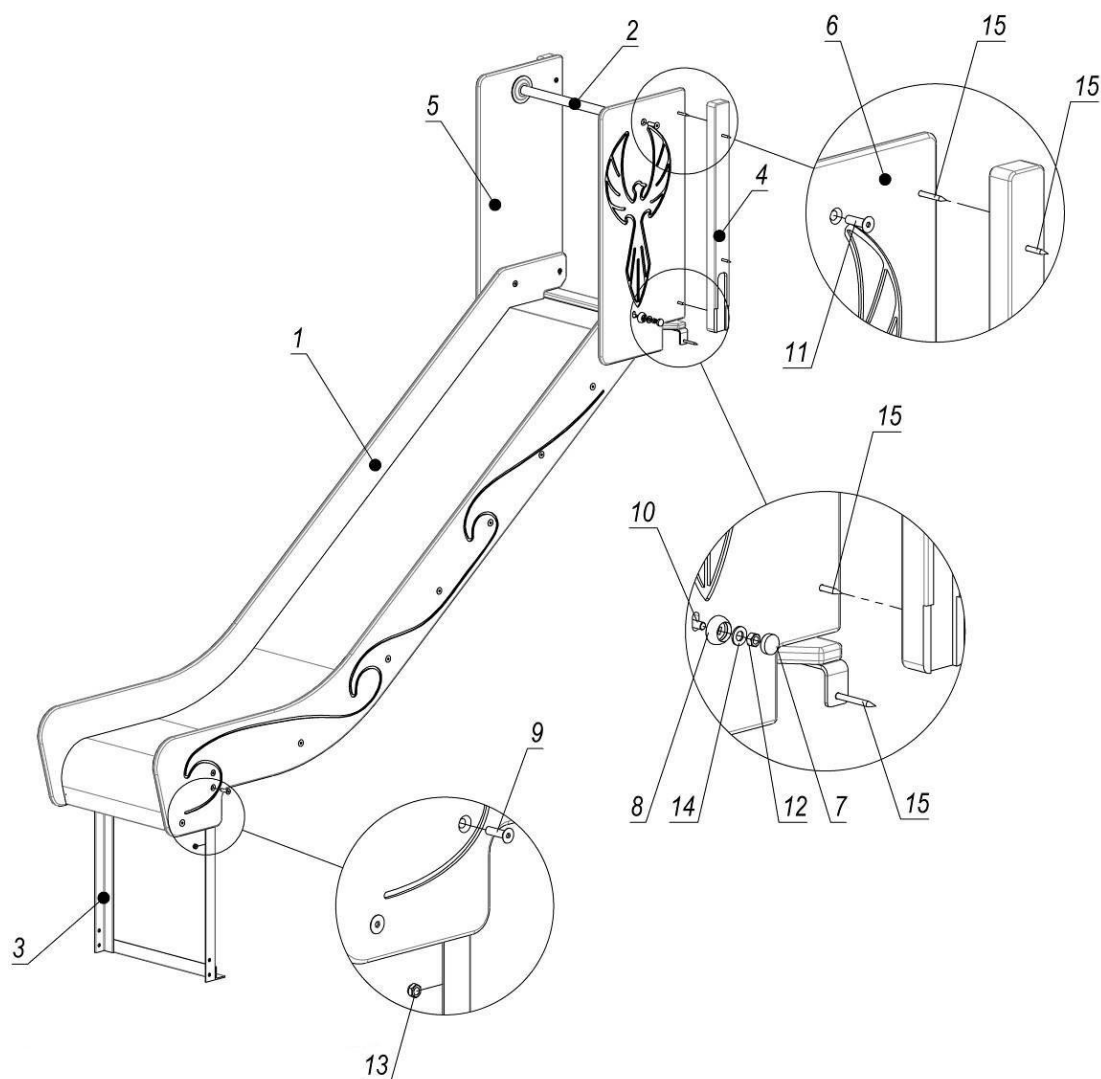


Figure 2 - Tower assembly scheme for the LK112-VIKINGS



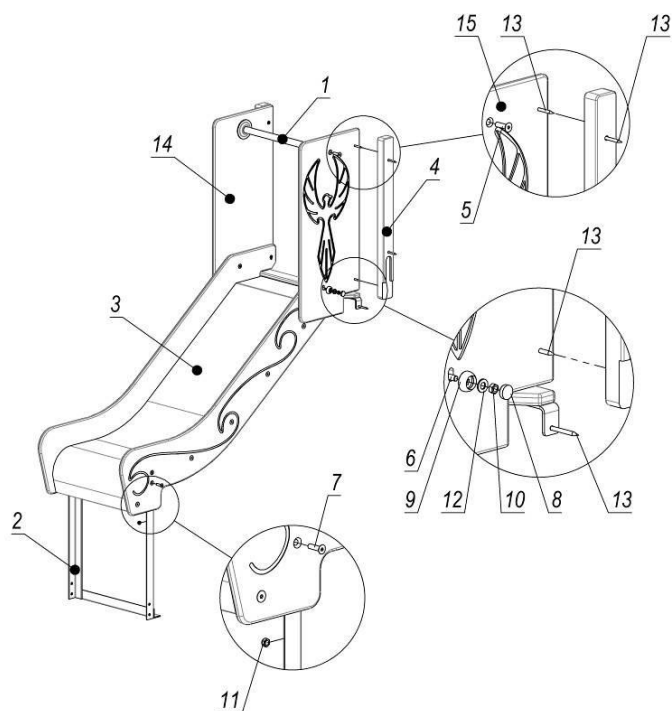
Nº	Name	Weight, kg	Q-ty, pcs.
1	Embedded element	1	4
2	Bolt M8*100 GOST7802		4
3	Bolt M6*30 GOST7802		8
4	Cup M8		4
5	Cap M8		4
6	Nut M8 GOST5915		4
7	Nut M6 GOST5915		8
8	Washer 10 GOST11371		4
9	Washer 8 GOST11371		8
10	Site (0.68x0.68)	6	1
11	Platform bracket		4
12	Cup M6		8
13	Cap M6		8
14	Screw 6.0x60 SPAX T-STAR plus (univers.)		8
15	Rack 2 m	7	2
16	Rack 2 m	7	2
17	Front pediment	2	2
18	Back pediment	2	2
19	Plank 0.68 m	2	1
20	Screw 6x70 GOST1145		8

Figure 2.1 – Complete set of tower for LK112-VIKINGS



Not.	Name	Weight	Number
1	Slide 1,2 m (VIKINGS) - 38 deg.	34	1
2	Screed 493 mm	1	1
3	slide embedment (corner)	5	1
4	slide bar (with cut-out)	.	2
5	upper right sidewall	4	1
6	upper left sidewall	4	1
7	Cup M8	.	2
8	Glass M8	.	2
9	Screw M8*30 DIN 7991		4
10	Screw M8*40 DIN 7991		2
11	Screw M10*35 DIN 7991		2
12	6-sided nut M8 DIN 934		2
13	locking nut M8 DIN 985		4
14	Flat washer 10 DIN 125		2
15	Screw 6x60 SPAX T-STAR plus (flat, TX30)	.	10

Figure 3 - Assembly diagram of the 1.2 m slide



Not.	Name	Weight	Number
1	Scred 493mm	1	1
2	slide embedment (corner)	5	1
3	Slide 0,7 m (VIKINGS) 38 deg.	23	1
4	Slide lining	.	2
5	Screw M10*35 DIN7991		2
6	Screw M8*40 DIN7991		2
7	Screw M8*30 DIN7991		4
8	Cap M8	.	2
9	Glass M8	.	2
10	6-sided nut M8 DIN 934		2
11	locking nut M8 DIN 985		4
12	Washer 10 DIN 125 (flat)		2
13	Screw 6x60 SPAX T-STAR plus (flat, TX30)	.	10
14	upper right sidewall	4	1
15	upper left sidewall	4	1

Figure 4 - Assembly diagram of the 0.7 m slide

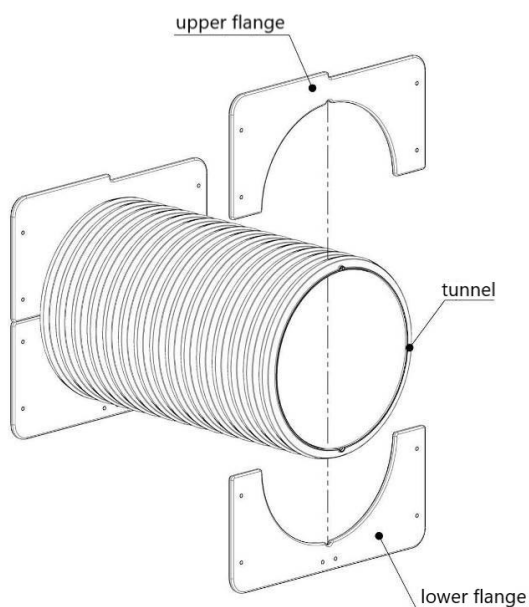
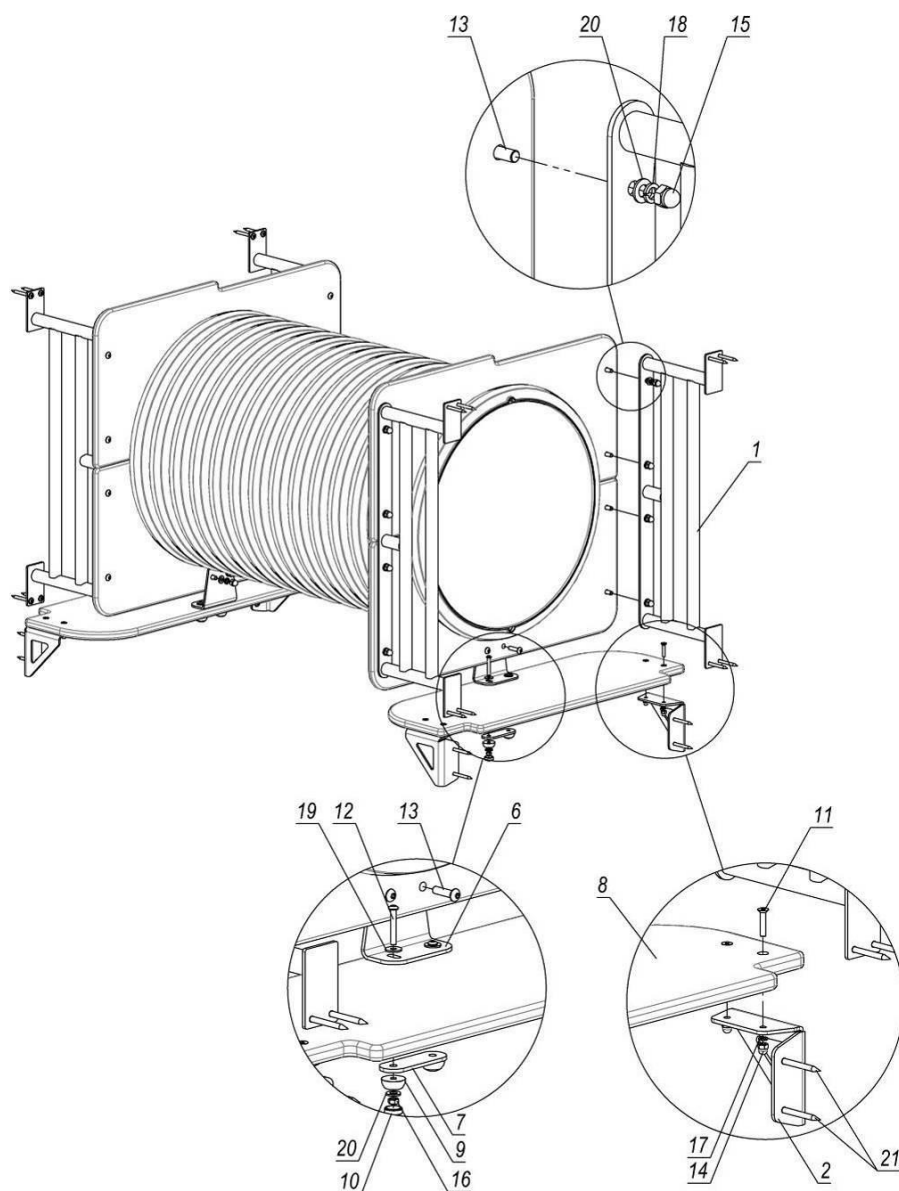
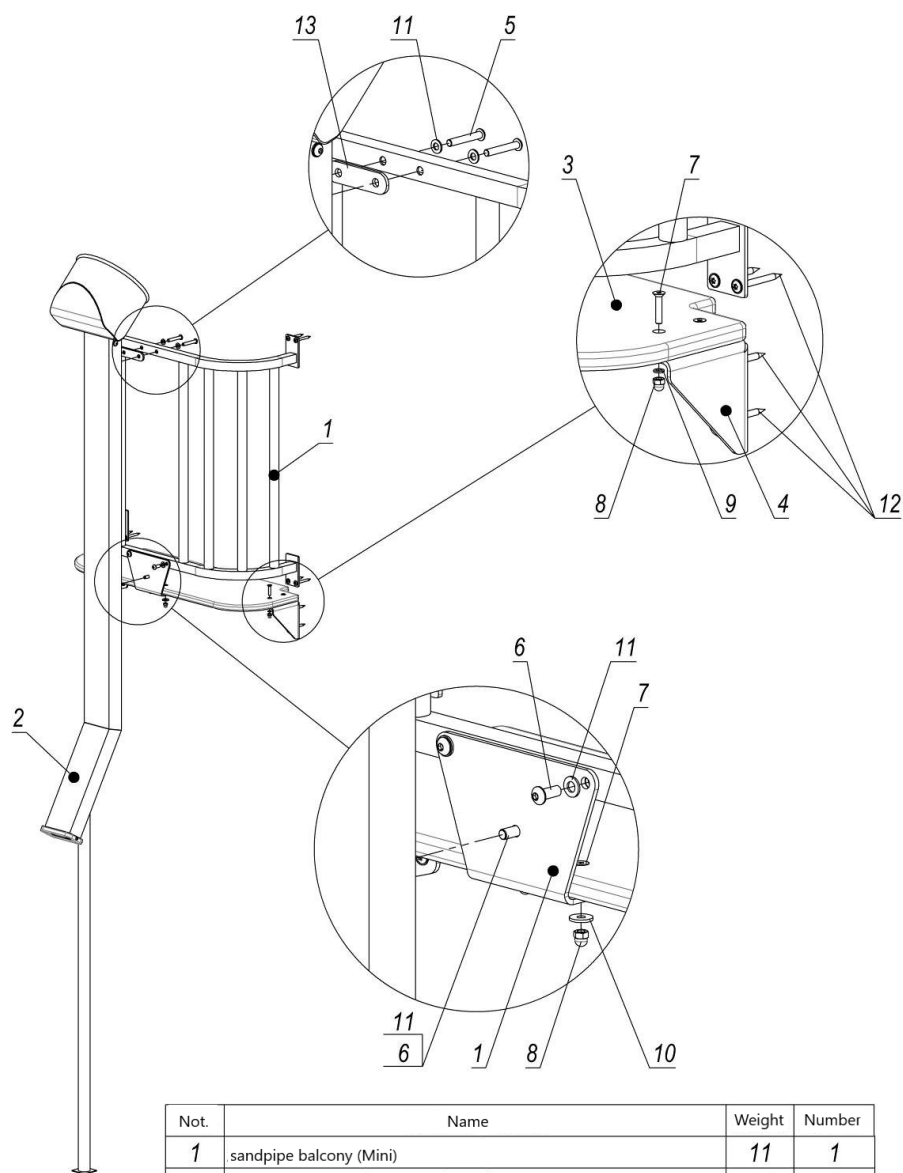


Figure 5 - Assembly diagram of the tunnel crossing



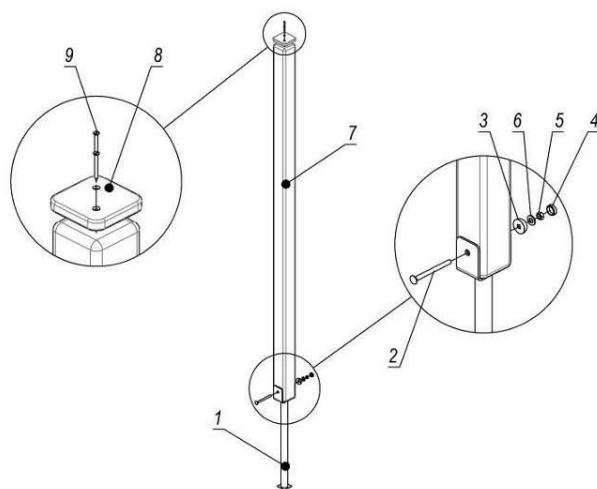
Not.	Name	Weight	Number
1	tunnel sidewall	3	4
2	table corner		4
3	tunnel	9	1
4	upper flange	2	2
5	lower flange	2	2
6	angle	.	2
7	Flange 4*30*90 mm		2
8	balcony floor 0,72 m	2	2
9	Glass M6		4
10	Cap M6		4
11	Screw M6x30 DIN7991		8
12	Screw M6x40 ISO7380		4
13	Screw M8x30 ISO7380		20
14	Cap nut M6 DIN1587		8
15	Cap nut M8 DIN1587		20
16	Nut M6 GOST5915		4
17	Washer 6 GOST6402		8
18	Washer 8 GOST6402		20
19	Washer 6 GOST6958		4
20	Washer 8 GOST11371		24
21	Screw 6,0x60 SPAX T-STAR plus (universal)		24

Figure 5.1 - Scheme of assembly of the tunnel passage



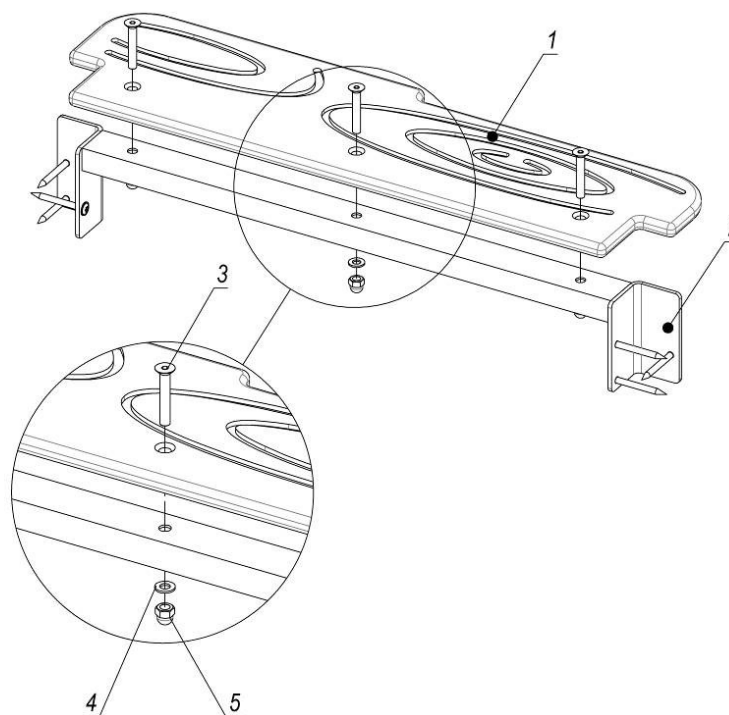
Not.	Name	Weight	Number
1	sandpipe balcony (Mini)	11	1
2	sand pipeline	12	1
3	balcony floor 0,27 M	3	1
4	table corner	.	2
5	Screw M8*50 ISO7380		2
6	Screw M8*20 ISO7380		3
7	Screw M6*30 DIN7991		6
8	Cap nut M6 DIN1587		6
9	Spring washer 6 DIN7980		4
10	enlarged washer 6 DIN 9021		2
11	Washer 8 DIN 125 (flat)		5
12	Screw 6x60 SPAX T-STAR plus (flat, TX30)	.	12
13	Flange 4*25*95 mm	.	1

Figure 6 - Assembly diagram of the balcony



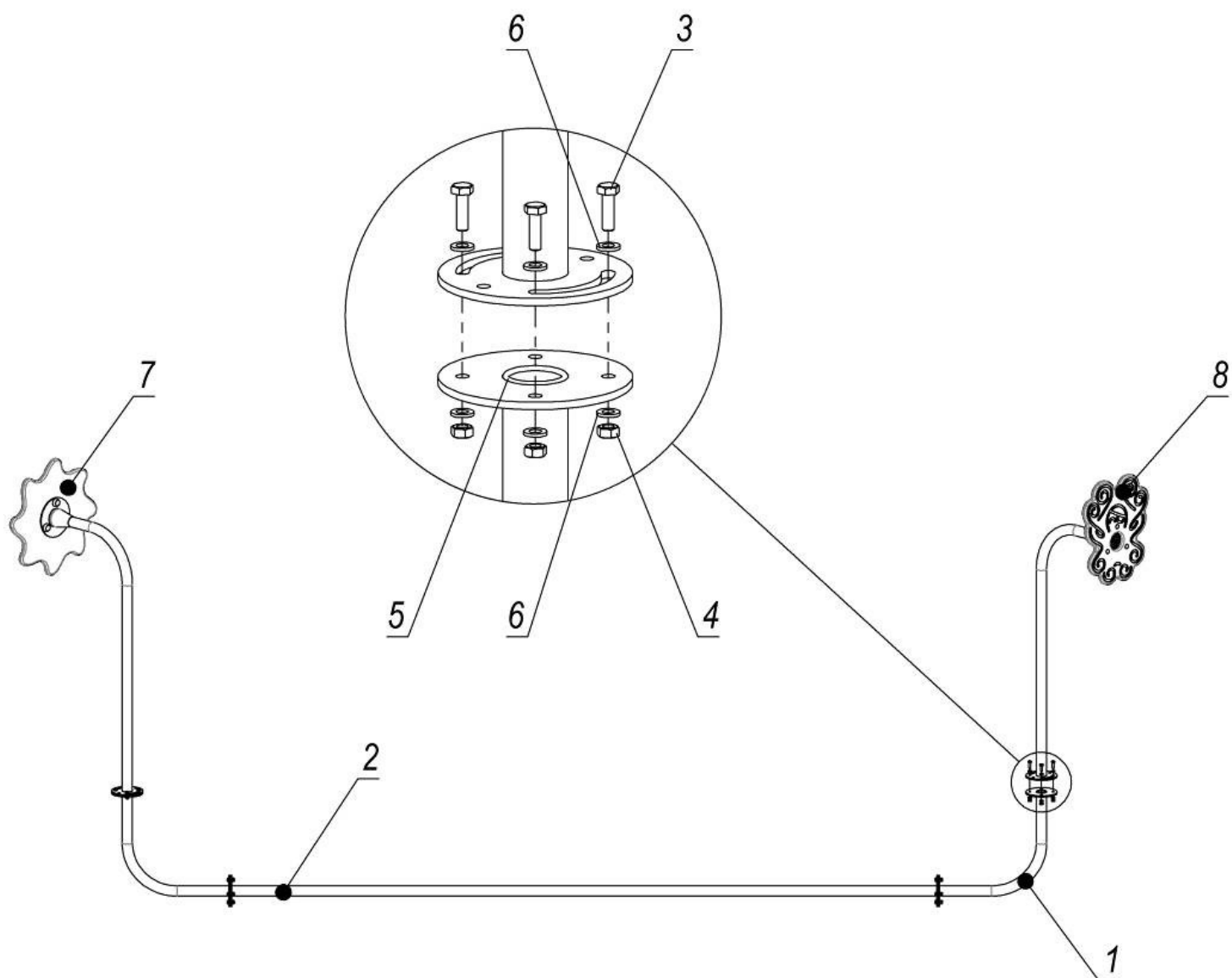
Not.	Name	Weight	Number
1	Bond (Mini)	1	1
2	Bolt M8*100 GOST7802		1
3	Glass M8		1
4	Cap M8		1
5	Nut M8 GOST5915		1
6	Washer 10 GOST11371		1
7	Rack 2m	8	1
8	Cap on the bar (mini)		1
9	Screw 4x40 GOST1145		2

Figure 7 - Assembly scheme of the rack



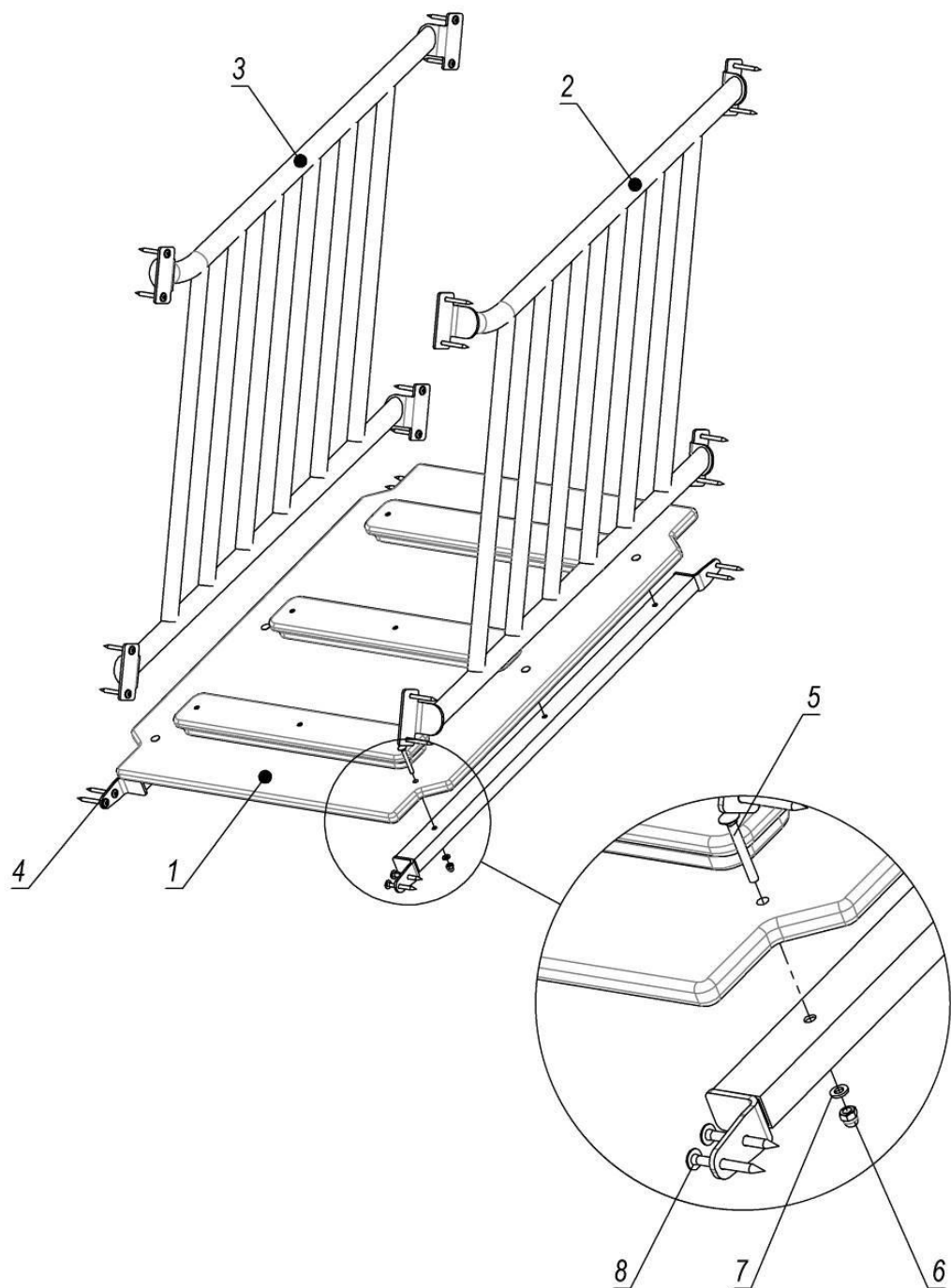
Not.	Name	Weight	Number
1	Seat (180x675)	1	1
2	bench carcass	2	1
3	Screw M8*50 DIN7991		3
4	Washer 8 DIN 125 (flat)		3
5	Nut M8 DIN1587 (cap)		3
6	Screw 6x60 SPAX T-STAR plus (flat, TX30)		6

Figure 8 - Seat assembly diagram



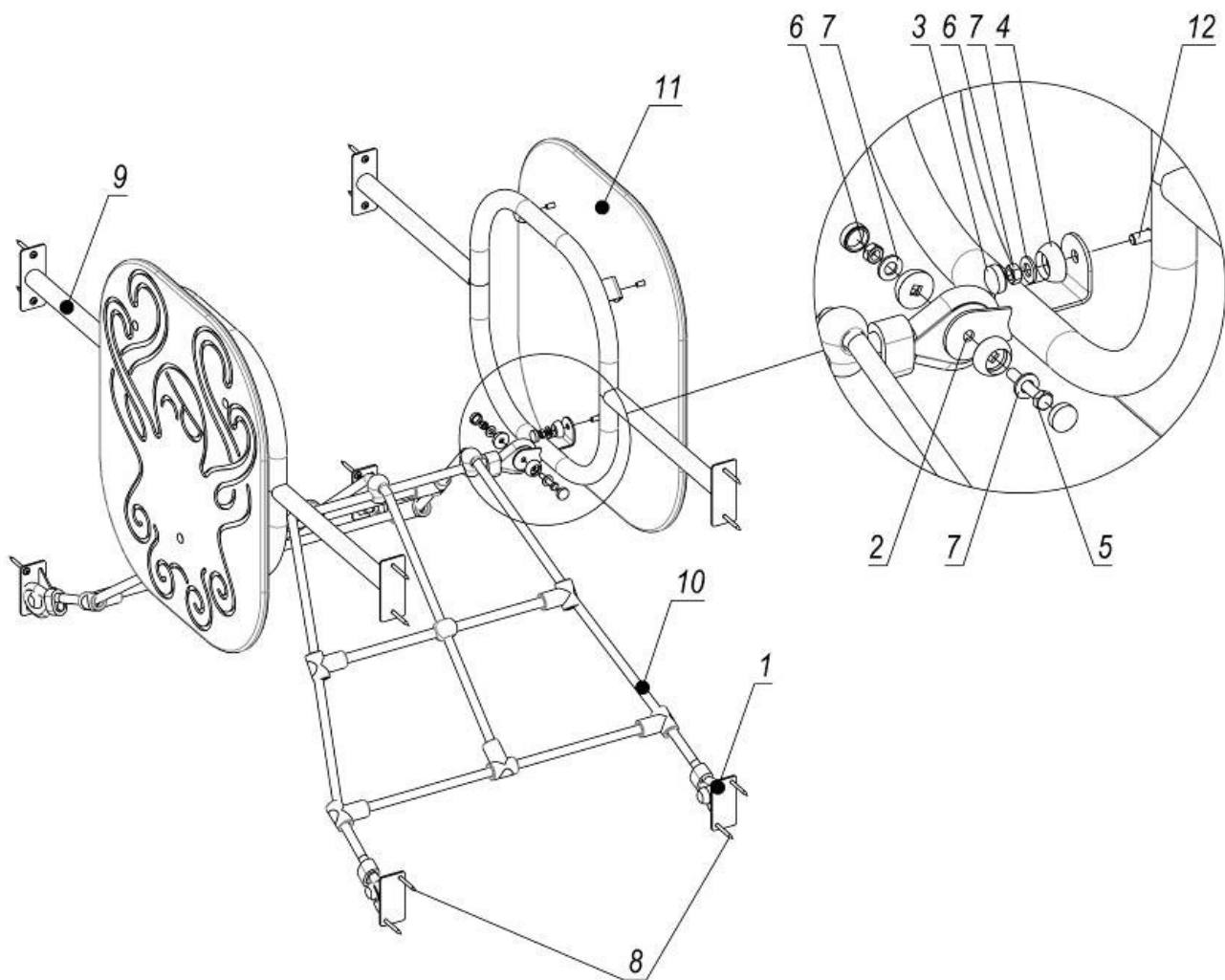
Not.	Name	Weight	Number
1	transition element	2	2
2	liner pipe	5	1
3	Bolt M6*20 DIN 933		16
4	Nut M6 DIN 934 (6-sided)		16
5	Ring 028-033-30 GOST 9833-73 (27,5x3)	.	4
6	Washer 6 DIN 125 (flat)		32
7	rack of pergola "sunshine"	4	1
8	"octopus" rack	4	1

Figure 9 - Assembly diagram of the intercom system



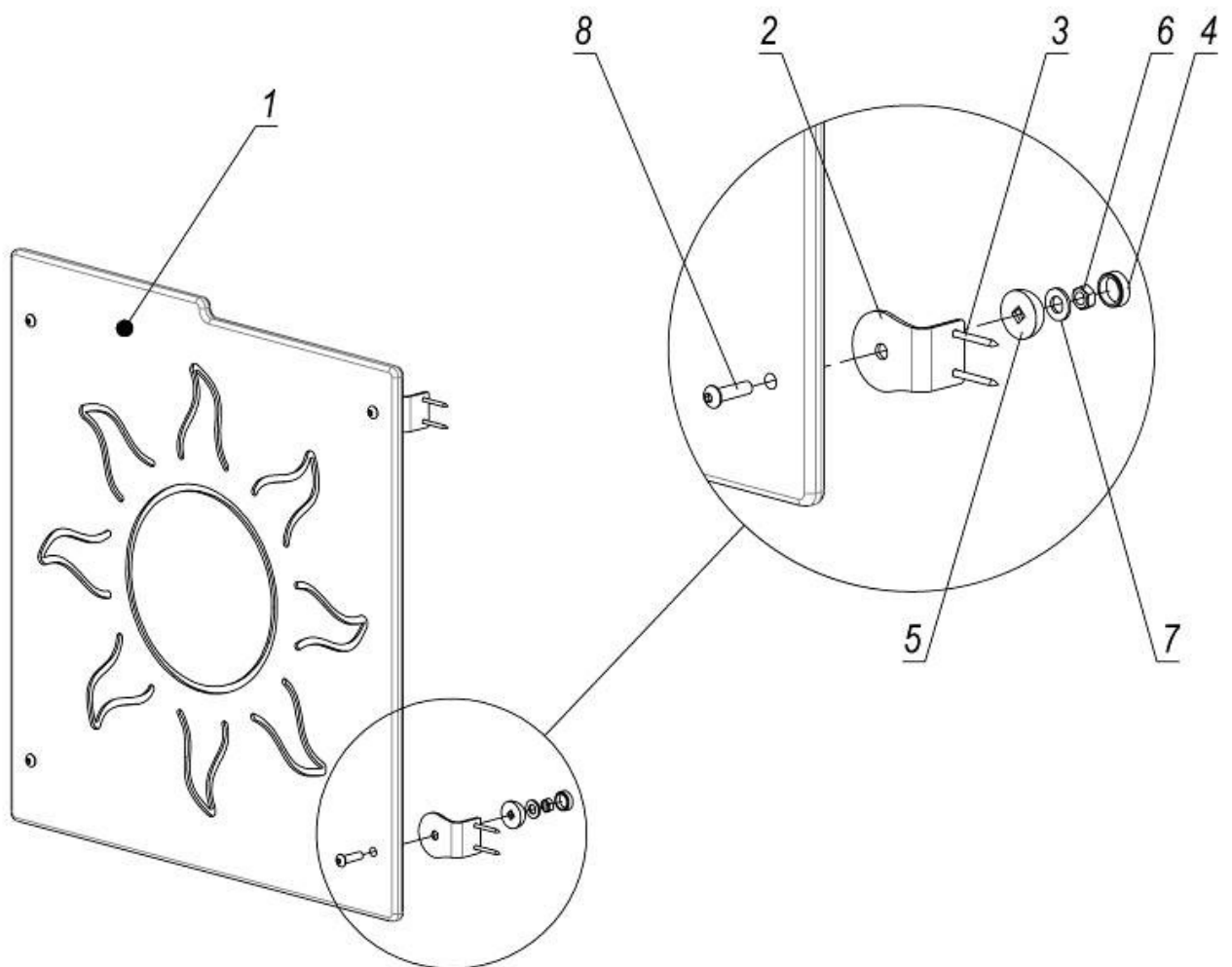
Not.	Name	Weight	Number
1	ladder 0,5 m	10	1
2	handrail	9	1
3	handrail	9	1
4	ladder support	2	2
5	Bolt M6*50 GOST 7802		6
6	Cap nut M6 DIN 1587		6
7	Washer 6 GOST 11371		6
8	Screw 6,0x60 SPAX T-STAR plus (universal)		24

Figure 10 - Assembly diagram of the ladder with handrails



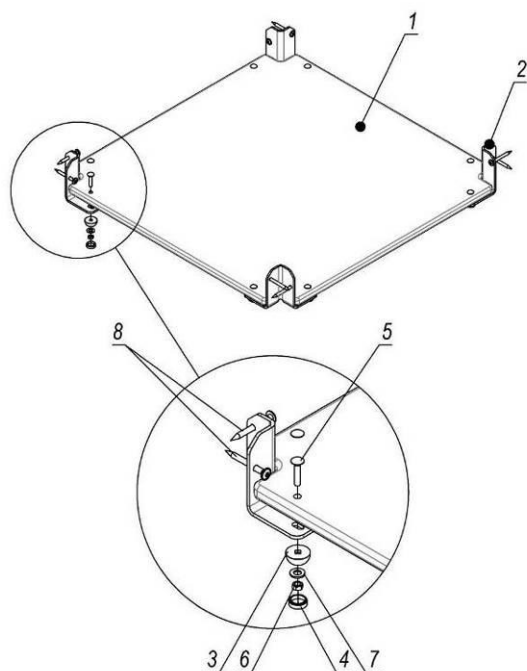
Not	Name	Weight	Number
1	bracket	.	4
2	Tube d12x1,5 GOST10704, L=22mm	.	6
3	Cap M8	.	18
4	Glass M8	.	18
5	Bolt M8*45 DIN 933		6
6	Nut M8 DIN 934 (6-sided)		12
7	Washer 10 DIN 125 (flat)		18
8	Screw 6x60 SPAX T-STAR plus (flat, TX30)	.	16
9	handrail with lugs	6	2
10	rope mesh	15	1
11	handrail panel	5	2
12	Bolt M8*30 DIN 603		6

Figure 11 - Assembly diagram of a handrail with ropes



Not.	Name	Weight	Number
1	Stand "sunshine"	5	1
2	corner bracket 40x60	.	4
3	Screw 4*40 DIN 7997 (PZ)	.	8
4	Cap M8	.	4
5	Glass M8	.	4
6	Nut M8 DIN 934 (6-sided)		4
7	Washer 10 DIN 125 (flat)		4
8	Screw M8*30 ISO 7380		4

Figure 12 - Panel assembly diagram (the assembly diagram for other panels is identical)



Nº	Name	Weight, kg	Q-ty, pcs.
1	Site 0.68x0.68	6	1
2	Platform bracket		4
3	Cup M6		8
4	Cap M6		8
5	Bolt M6*30 GOST7802		8
6	Nut M6 GOST5915		8
7	Washer 8 GOST11371		8
8	Screw 6.0x60 SPAX T-STAR plus (univers.)		8

Figure 13 - Assembly scheme of the platform

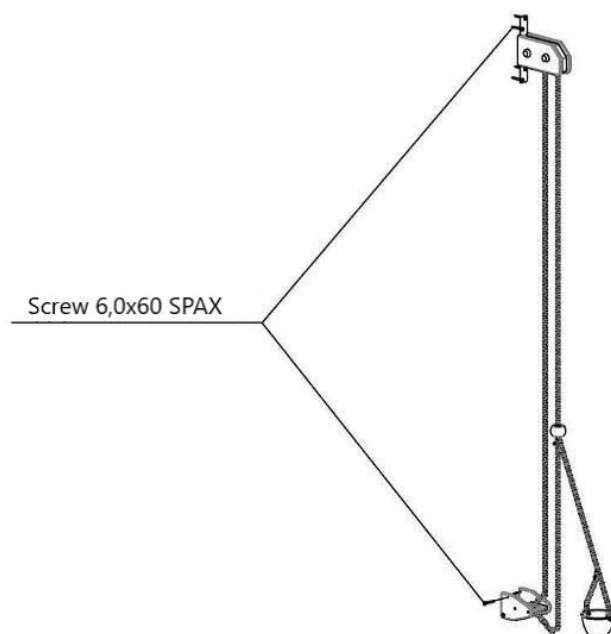
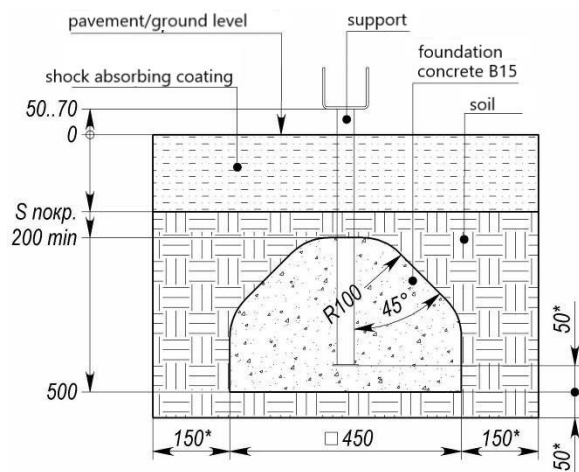
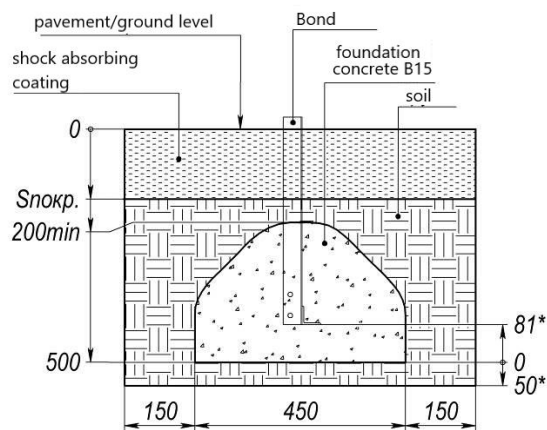


Figure 14 - Schematic diagram of the bucket on the chains



For supporting bars and other elements



For slides

Figure 15 - Concrete layout

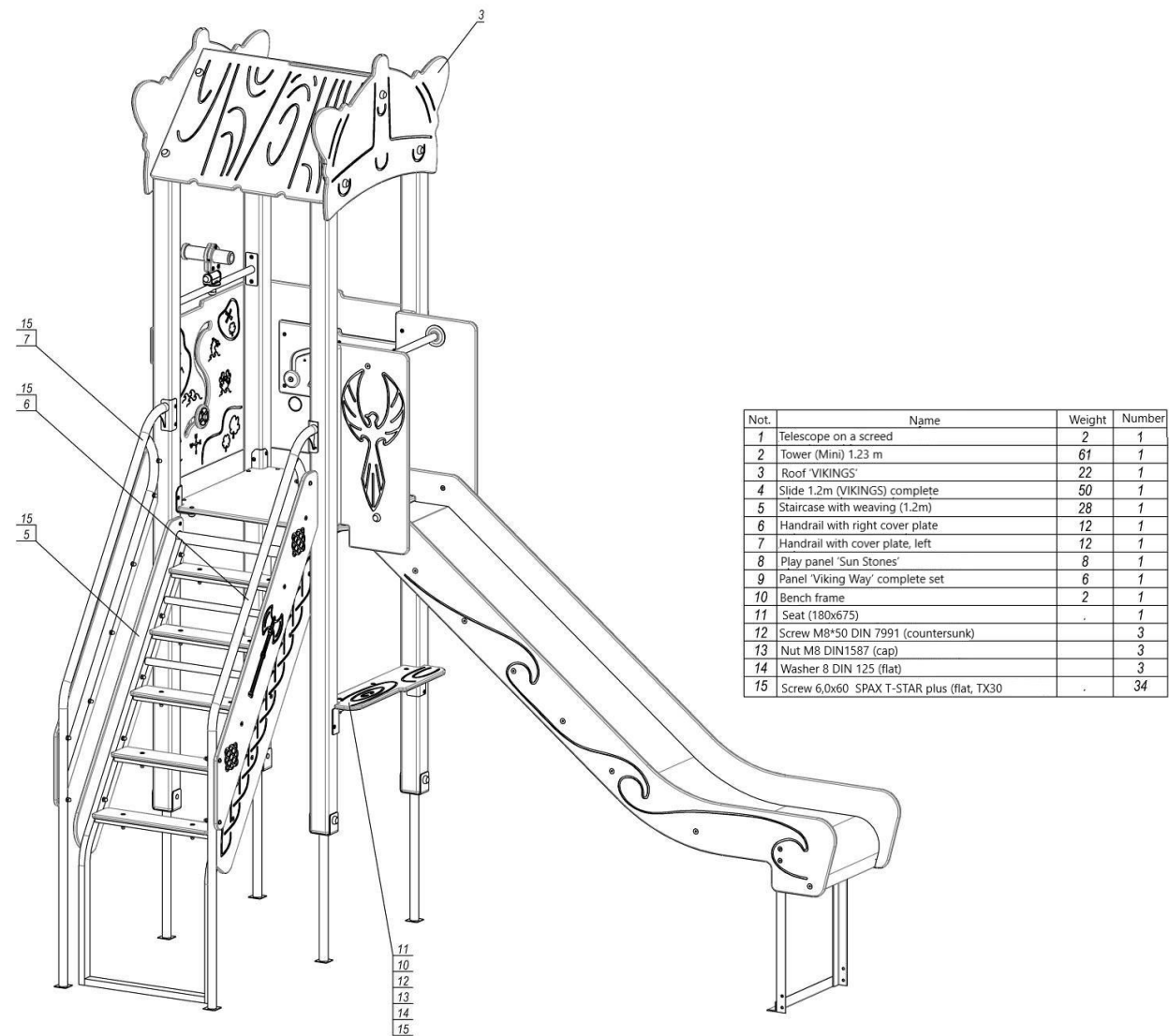


Figure 16 – LK102-VIKINGS

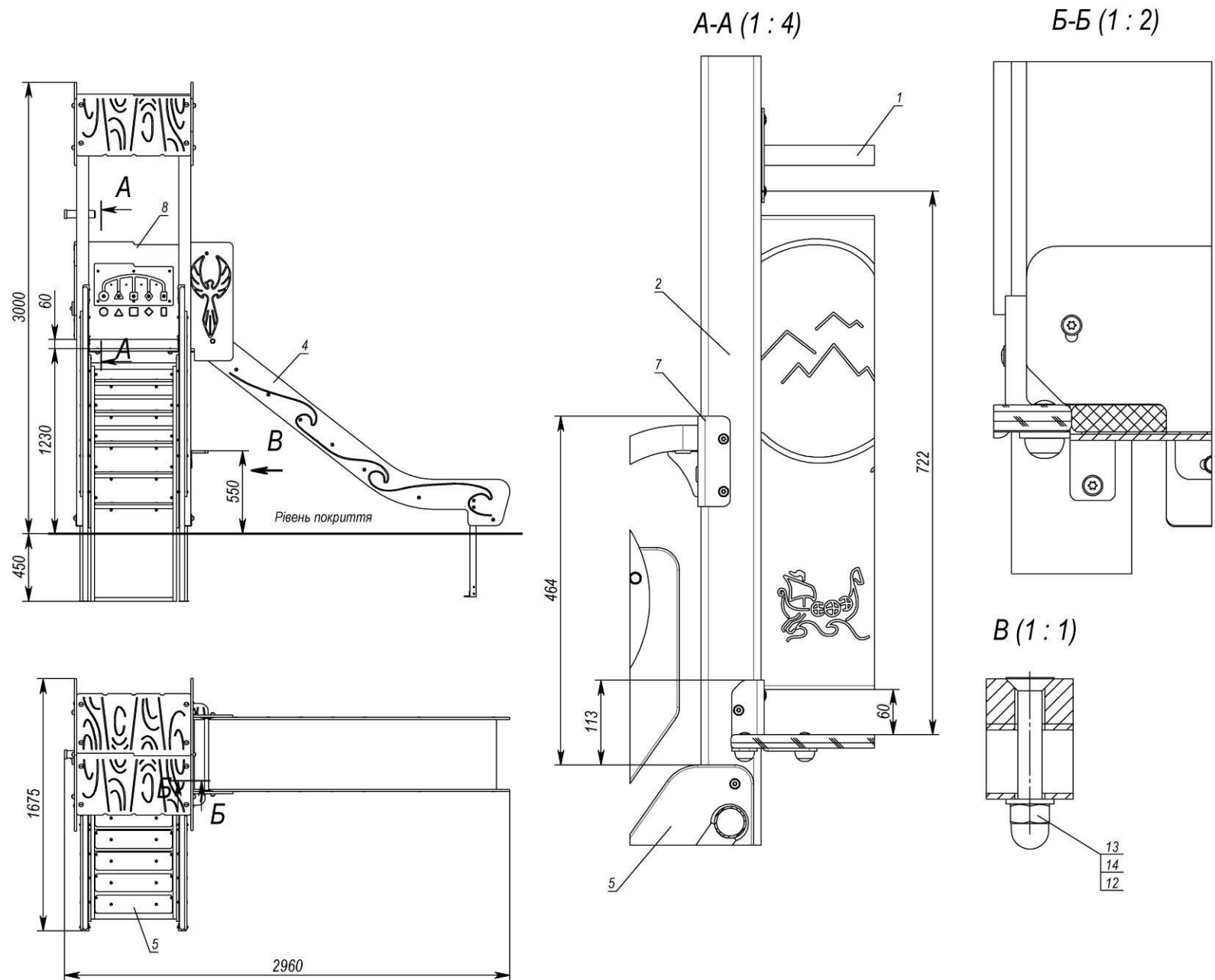


Figure 17 - LK102-VIKINGS

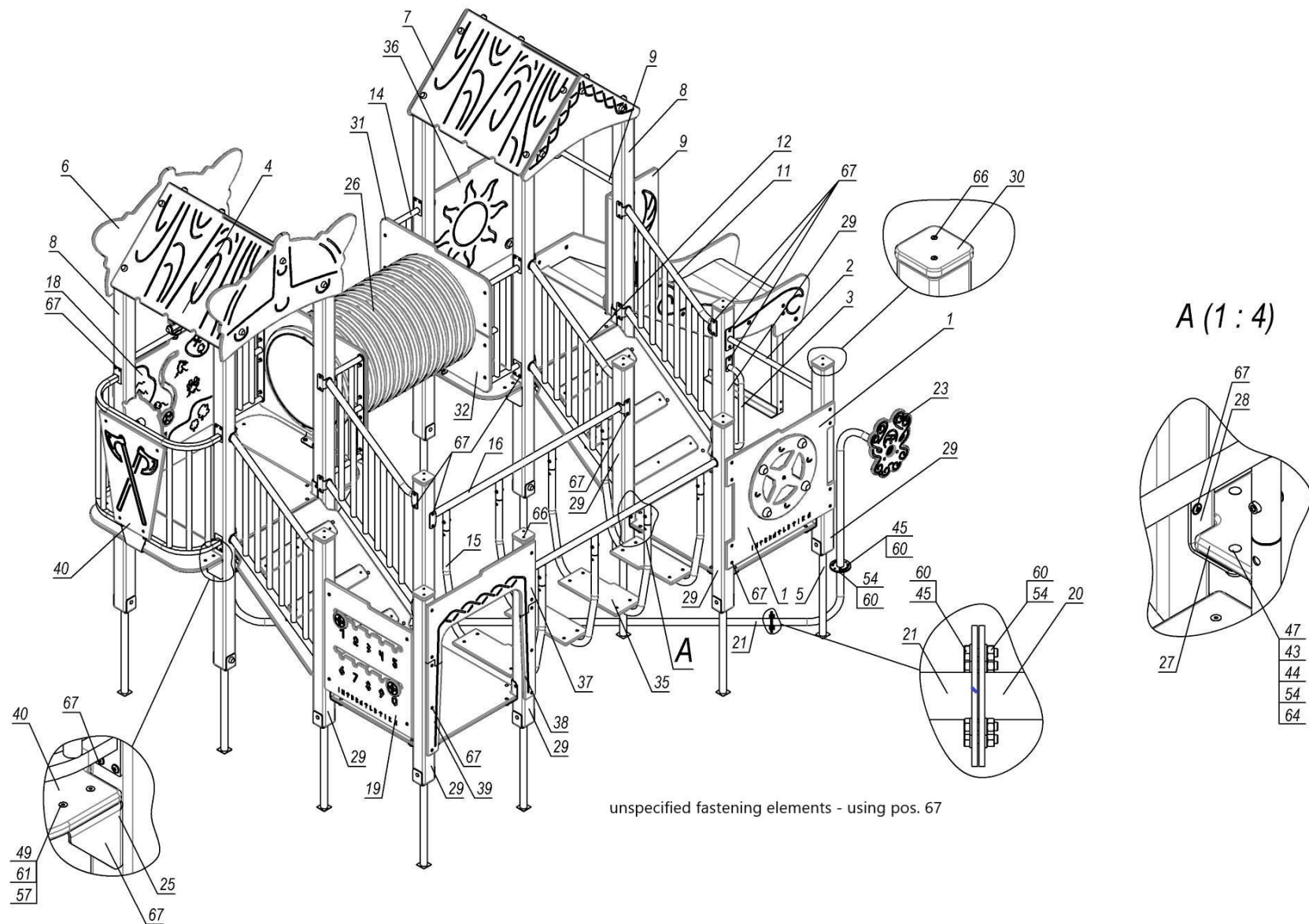
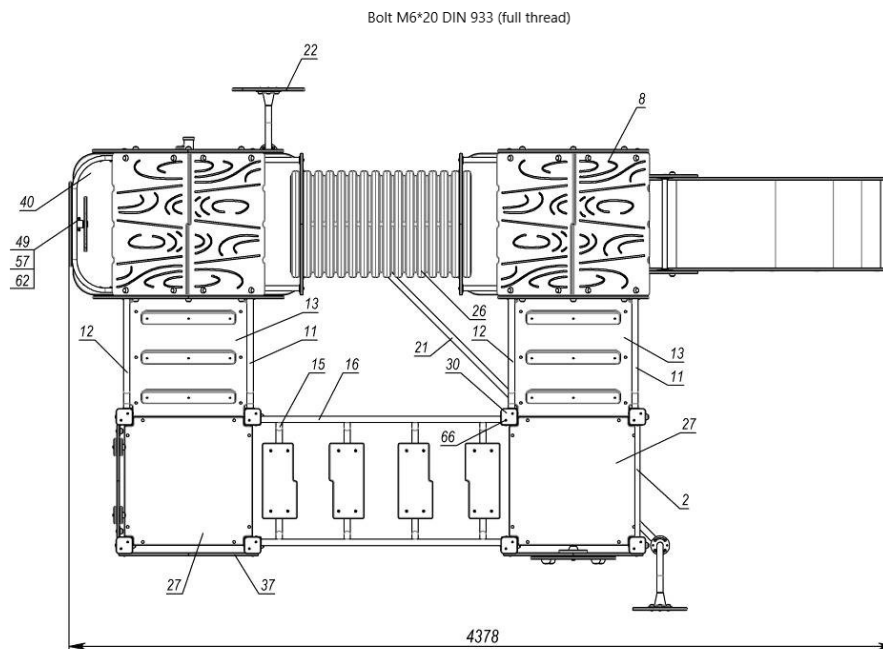


Figure 18 - LK112-VIKINGS



Поз.	Наименования	Маса	Клп-ть
1	Colour board	9	1
2	Screed (L=600 mm)	1	1
3	Handle	1	1
4	Telescope on the screed	2	1
5	Embedded	2	8
6	Roof 'VIKINGS'	22	1
7	Small roof	22	1
8	Tower (Mini) 0.73 m	53	2
9	Slide 0.7 m complete	39	1
10	Tinting of the trap	2	4
11	Handrail (Mini)	9	2
12	Handrail (Mini)	9	2
13	Ladder 0.5m (Mini)	10	2
14	Tunnel sidewall	3	4
15	Step frame	5	4
16	Handrail with adapters	4	2
17	Viking balcony	15	1
18	'Viking Way' panel assembly	6	1
19	Panel 'Viking numbers'	5	1
20	Adapter of the intercom	2	2
21	Intercom pipe	5	1
22	Handling of the negotiating sun	4	1
23	Rack 'octopus'	4	1
24	Angle bracket 40x60		8
25	Table corner		6
26	Tunnel	9	1
27	Platform (0.68x0.68)	6	2
28	Platform bracket		8
29	Rack 1.1 m	4	8
30	Cap on the bar		8
31	Upper flange	2	2
32	Lower flange	2	2
33	Corner		2
34	Flange 4*30*90 mm		2
35	LK bridge step		4
36	Panel "Sun"	5	1
37	Panel 'Wicker arch'	3	1
38	Arch rim		1
39	Arch rim		1
40	Balcony floor 0.72 m	3	3
41	Cap M8		16
42	Glass M8		16
43	Glass M6		20
44	Cap M6		20
45	Bolt M6*20 DIN 933 (full thread)		16
46	Bolt M6*50 DIN 603 (furniture)		12
47	Bolt M6*30 DIN 603 (furniture)		16
48	Bolt M8*100 DIN 603 (furniture)		8
49	Screw M6*30 DIN 7991 (countersunk)		14
50	Screw M6*40 ISO 7380 (semi-cap)		4
51	Screw M8*25 DIN 912 (socket)		8
52	Screw M8*30 ISO 7380 (semi-countersunk)		28
53	Screw M6*25 DIN 7991 (countersunk)		16
54	Nut M6 DIN 934 (6-sided)		36
55	Nut M8 DIN 934 (hexagonal)		16
56	Nut M8 DIN 1587 (cap)		20
57	Nut M6 DIN 1587 (cap)		42
58	Nut M8x16 ERICSON (flat)		8
59	Ring 028-033-30 GOST 9833-73 (27.5x3)		4
60	Washer 6 DIN 125 (flat)		44
61	Washer 6 DIN 7980 (spring)		12
62	Washer 6 DIN 9021 (enlarged)		6
63	Washer 8 DIN 7980 (spring)		20
64	Washer 8 DIN 125 (flat)		40
65	Washer 10 DIN 125 (flat)		16
66	Screw 4*40 DIN 7997 (countersunk, PZ)		32
67	Screw 6x60 SPAX T-STAR plus (flat, TX30)		144

Figure 19 - LK112-VIKINGS

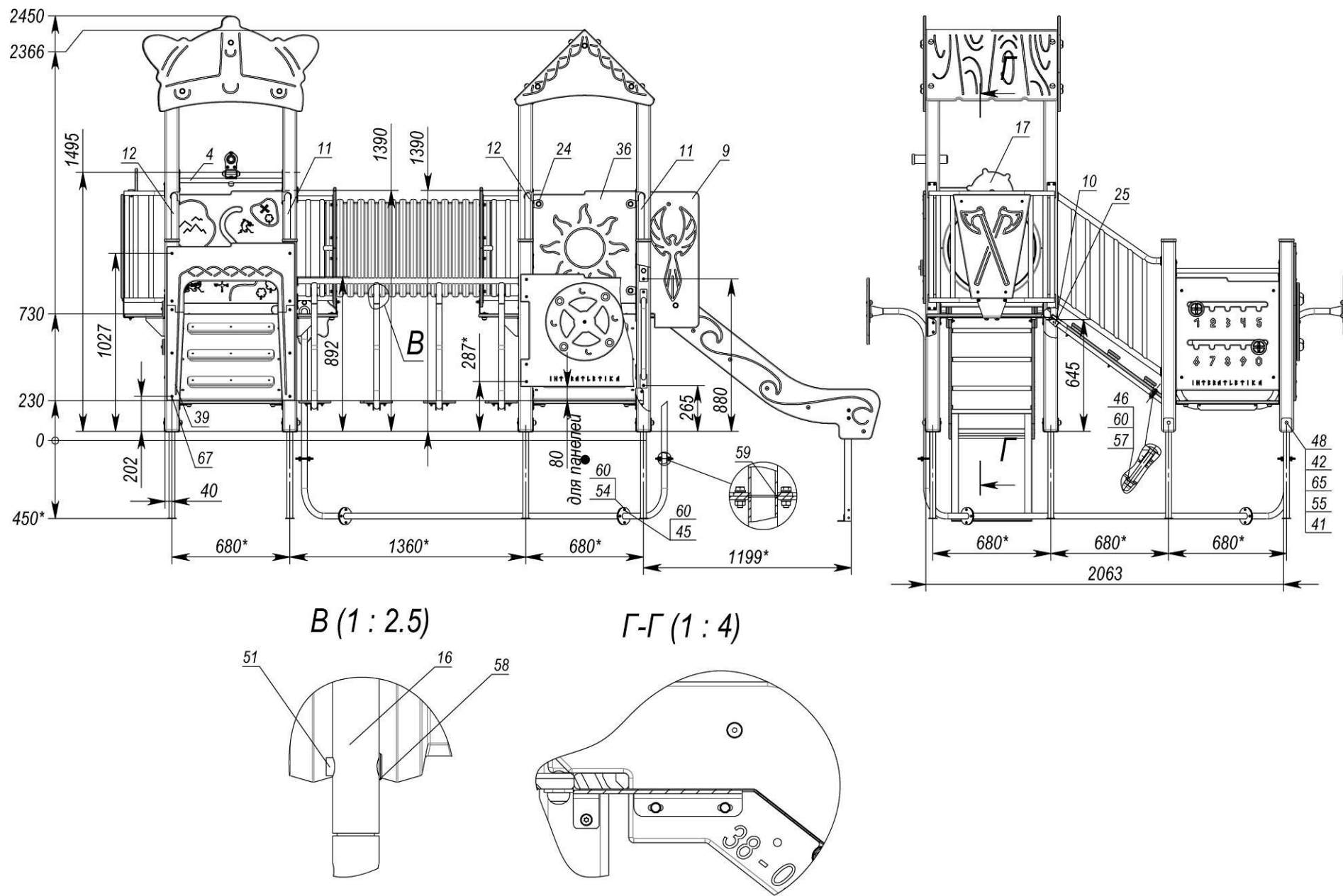


Figure 20 - LK112-VIKINGS

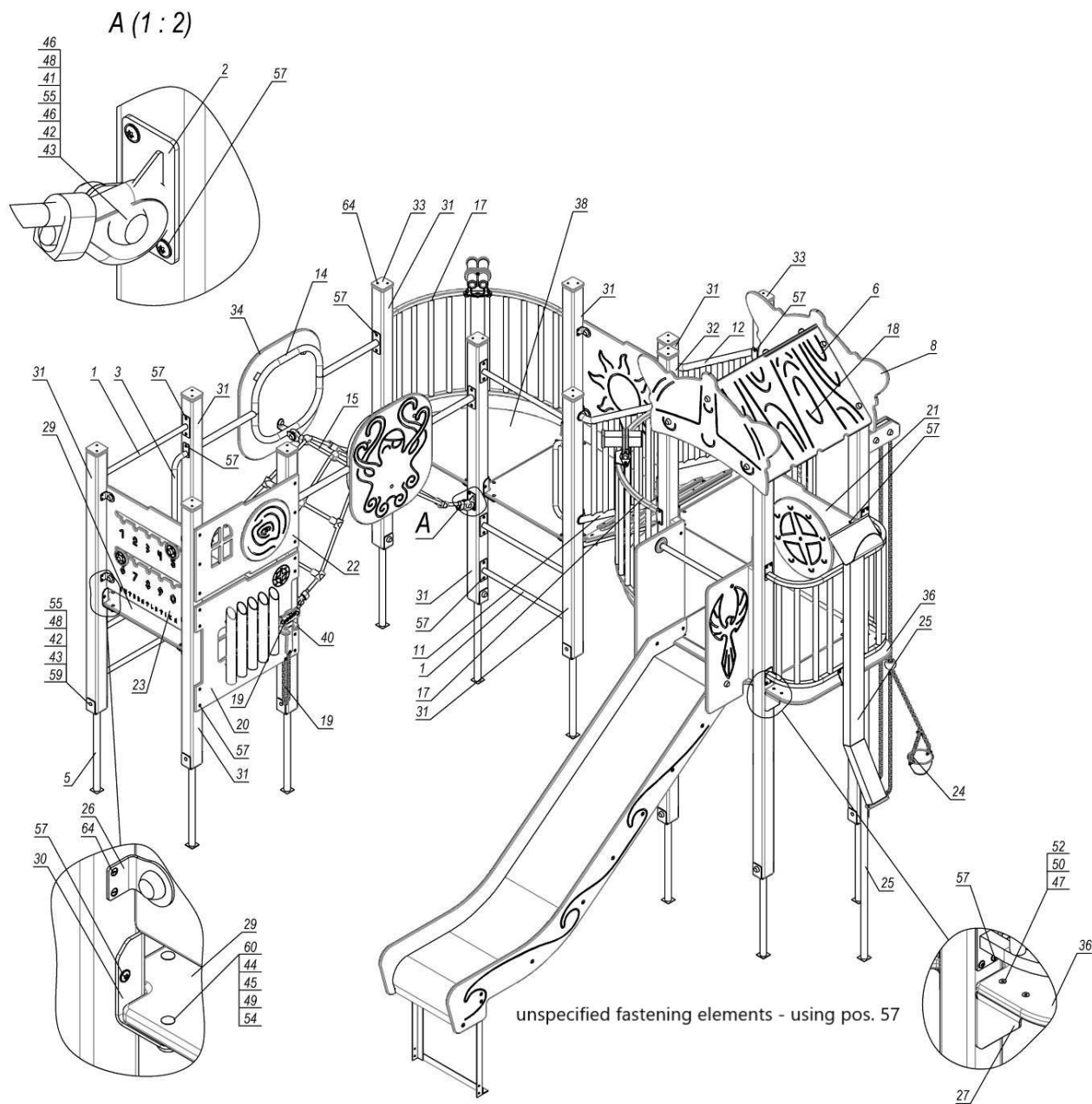
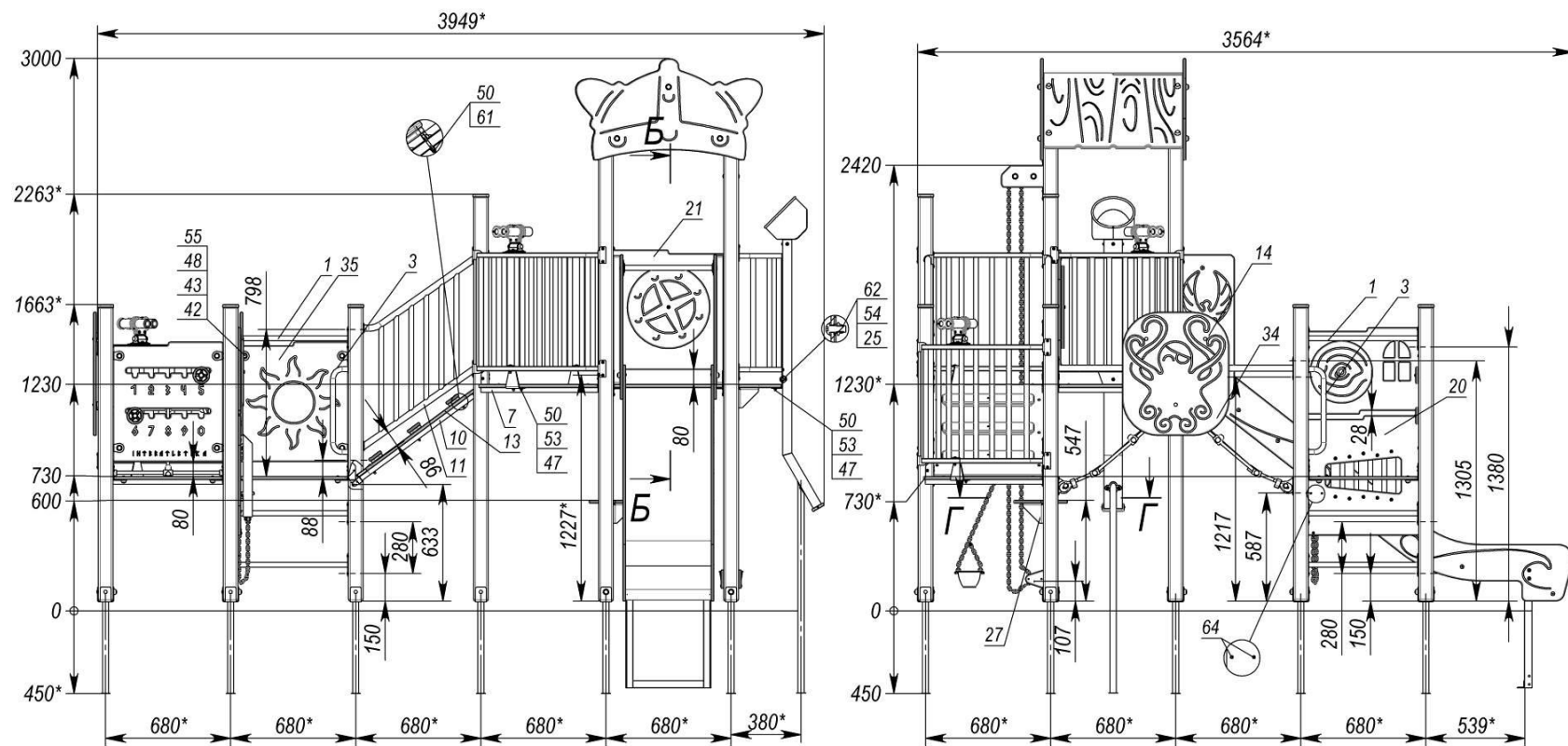


Figure 21 - LK113-VIKINGS

Not.	Name	Weight	Number	Not.	Name	Weight	Number
1	Screed (L=600 mm)	1	6	34	Handrail panel	5	2
2	Bracket		4	35	Panel "Sun"	5	1
3	Handle		2	36	Balcony floor 0.72 m	3	1
4	Binoculars assembly	2	2	37	Flange 4*25*95 mm		1
5	Embedded (Mini series)	2	11	38	Balcony tray	5	3
6	Tower (Mini) 1,23 m	61	1	39	Balcony connector		3
7	Connector	2	3	40	Stopper		1
8	Roof 'VIKINGS'	22	1	41	Pipe d12x1.5 GOST 10704, L=22 mm		6
9	Slide 1.2 m (VIKINGS) complete	50	1	42	Cap M8		41
10	Ladder support	2	2	43	Glass M8		41
11	Handrail (Mini)	9	1	44	Glass M6		32
12	Handrail (Mini)	9	1	45	Cap M6		32
13	Ladder 0.5m (Mini)	10	1	46	Bolt M8*45 DIN 933 (full thread)		6
14	Handrail with lugs	6	2	47	Screw M6*30 DIN 7991 (countersunk)		16
15	Rope mesh	15	1	48	Nut M8 DIN 934 (6-sided)		35
16	Sand pipe balcony (Mini)	11	1	49	Nut M6 DIN 934 (hexagonal)		32
17	Arc balcony (Mini) for binoculars	13	2	50	Nut M6 DIN 1587 (cap)		21
18	Arc balcony (Mini)	12	1	51	Washer 6 DIN 125 (flat)		9
19	Hammer on a chain		1	52	Washer 6 DIN 7980 (spring)		4
20	Xylophone panel assembly	7	1	53	Washer 6 DIN 9021 (enlarged)		11
21	Viking shield panel assembly	11	1	54	Washer 8 DIN 125 (flat)		37
22	'Wooden shield' panel assembly	7	1	55	Washer 10 DIN 125 (flat)		41
23	Panel 'Viking numerals'	5	1	56	Screw 6*40 DIN 7996 (NKR-units, PZ)		4
24	Talon	7	1	57	Screw 6x60 SPAX T-STAR plus (flat, TX30)		168
25	Sand pipeline	12	1	58	Bolt M8*100 DIN 603 (furniture)		6
26	Angle bracket 40x60		8	59	Bolt M8*100 DIN 603 (furniture)		11
27	Table corner		4	60	Bolt M6*30 DIN 603 (furniture)		28
28	Table (Mini)		1	61	Bolt M6*50 DIN 603 (furniture)		6
29	Platform (0.68 × 0.68)	6	2	62	Screw M8*20 ISO 7380 (half-cr)		7
30	Platform bracket		11	63	Screw M8*30 ISO 7380 (half-cap)		8
31	Rack 1.6 m	6	9	64	Screw 4*40 DIN 7997 (countersunk, PZ)		40
32	Rack 2.2 m	8	2	65	Screw M8*50 ISO 7380 (half-cr)		2
33	Cover for the bar (Mini)		11	66	Screw M6*40 ISO 7380 (semi-crew)		3

Рисунок 22 - LK113-VIKINGS



Б-Б (1 : 5)

Г-Г (1 : 8)

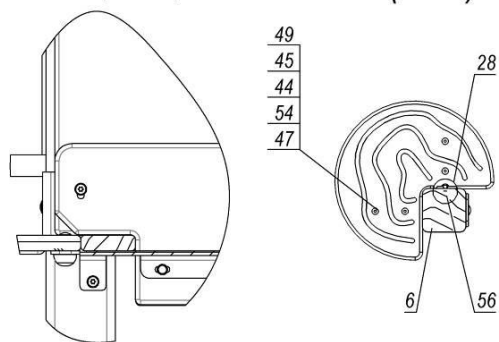


Figure 23 - LK113-VIKINGS