interatletika™

PRODUCTION AND SALE OF CHILDREN'S AND OUTDOOR EQUIPMENT

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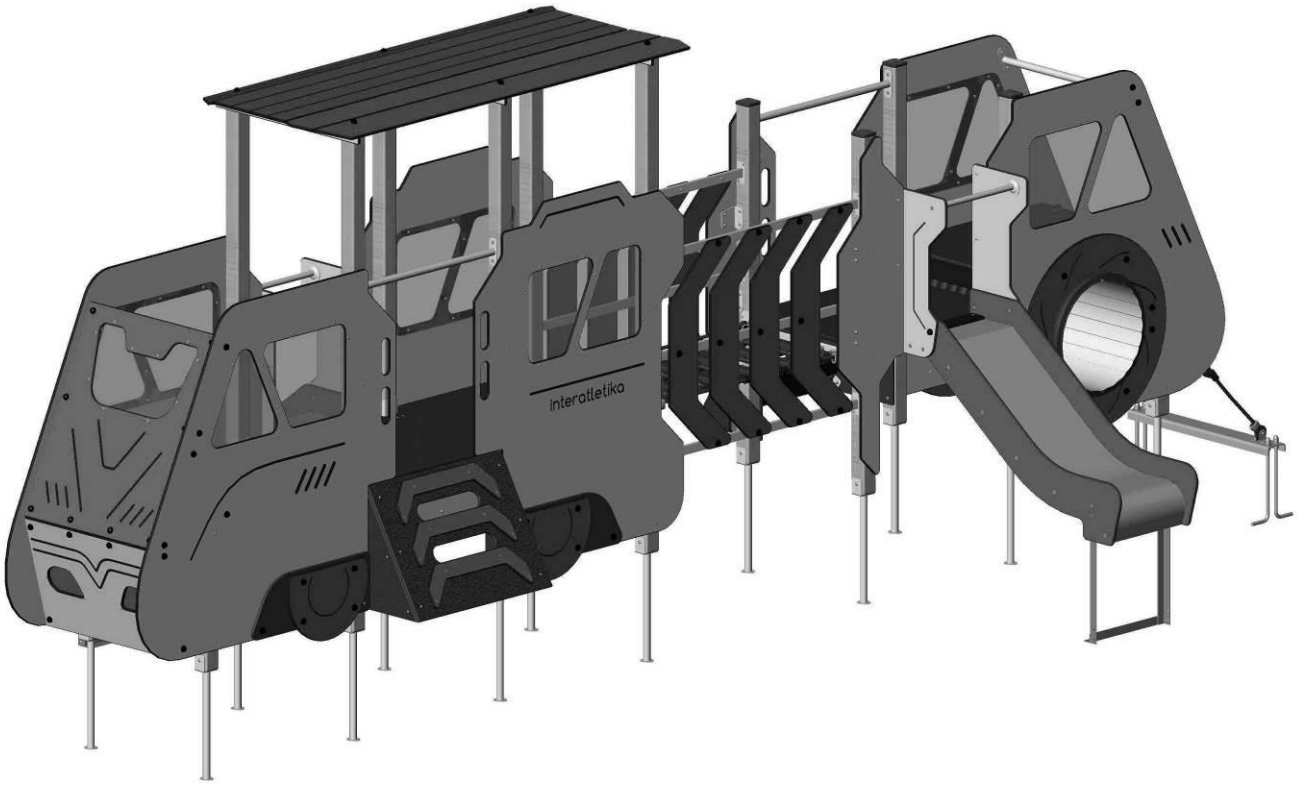
LK511 – High-speed train

DATA SHEET

3-7 years



CONTENT

FOR NOTES

1. GENERAL INFORMATION

1.1 Product code _____.

1.2 Name _____.

1.3 Manufacturer «Company Sporttehnika» LLC, 78, Ivana Mazepy Str., Chernihiv, 14001, Ukraine.

1.4 Serial number and production date: _____, «____» _____ 20__year.

1.5 Produced in accordance with regulatory documents: EN 1176-1:2017+A1:2023.

1.6 The product is designed for children and creates conditions for:

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

The 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. TECHNICAL DATA

	LK511
Length, mm	6977
Width, mm	3516
Height, mm	2424
Free height of fall, mm	871
Weight, kg	627
Age range, years	3….7
Weight limits, kg	up to 60

3. COMPLETE SET

Complete set of the product is given in the «Shipping list» and «List of fasteners», supplied with the product

4. CERTIFICATE OF ACCEPTANCE, PACKING AND CONSERVATION

Product _____, serial number _____ complies with regulatory documents EN 1176-1:2017+A1:2023 and recognised as serviceable.

OTC mark: «_____» _____ 20___ year _____ P.S.

Date Full name

Packed by «Company Sporttehnika» LLC in accordance with the requirements of regulatory documents.

«____» _____ 20___ year Packed by _____ _____

Date of packing Full name Signature

Information on conservation and deconservation during operation

Conservation date	Conservation method	Conservation period	Deconservation date	Name of the company (organisation)	Position, full name	Signature

5. INFORMATION ON STORAGE, TRANSPORT AND DISPOSAL

The product is transported in the manufacturer's packaging by any means of transport that ensures its safety and protection from external factors (rain, snow, sunlight, water, high humidity, etc.).

Information about transportation

Date		Brand, state number of the ca/trailer	Position, full name	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.

Information about storage

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. INSPECTION AND CHECKING

Equipment must be regularly inspected and checked to ensure safe operation. Inspections consist of a detailed examination of the surfaces of the site and checking the serviceability and reliability of the equipment. Particular attention is paid to moving parts subject to friction.

The inspection of equipment is carried out by the enterprise, institution, or organization regardless of the form of ownership, which is the owner of the equipment/site. The types of inspections and the frequency of their conduct are determined by the owner of the equipment.

Recommended types of inspections and verification:

-REGULAR INSPECTION (recommended to be done every day) – visual inspection to identify obvious hazards that may result from vandalism, improper operation, or natural conditions.

-FUNCTIONAL INSPECTION (recommended to be done every 1-3 months) – involves a detailed visual inspection of the condition of the equipment: cleanliness and appearance of surfaces; absence of malfunctions/defects in components; presence of excessive wear or cracks; verification of structural integrity and stability of the structure.

-ANNUAL INSPECTION (once or twice a year) – visual and operational assessment of equipment condition: wear and tear of surfaces and mechanisms; presence of corrosion and rot; strength of connections between elements and absence of malfunctions; integrity of the structure and foundation; pay special attention to hidden and inaccessible parts, which may require disassembly of some components.

-EXTRAORDINARY INSPECTION - are carried out after acts of vandalism, natural disasters, and other unforeseen circumstances that may cause damage.

The buyer (or responsible person) is responsible for ensuring that inspections and maintenance of the equipment are carried out in a timely manner.

The frequency of inspections and checks may be reduced and adjusted according to the necessary requirements for playgrounds with high intensity of use, located in particularly difficult climatic conditions and closer than 1.5 km from the sea.

7. TECHNICAL MAINTENANCE

Equipment maintenance is carried out to ensure an adequate level of safety, reliability, and efficiency of its operation:

- checking the fastening elements;
- replacing fasteners;
- repainting and painting surfaces (for example, after the winter and summer periods);
- maintenance of shock-absorbing surfaces;
- lubrication of bearings;
- removal of broken glass and other debris or dirt;
- refilling of trampled surfaces;
- cleaning, washing, and wiping of equipment down to the smallest details;
- maintenance of fences in proper condition.

If the technical condition of the equipment is unsafe, visitors must be prohibited from entering.

Replacement of elements or parts of the structure that may lead to unsafe operation of the equipment may only be carried out after consultation with the manufacturer. Repair work during operation of the site is not recommended due to the possibility of injury to users.

All work carried out to ensure the safe operation of the equipment must be recorded in the maintenance log in the prescribed form.

The service life of the tunnel is 5 years. At the end of this period, the part must be completely replaced.

Record of maintenance

Date and type of inspection	Name of the work done	Remarks on the technical condition	Position, full name, signature of the responsible person

8. REPAIR AND RECORDING OF FAULTS

Replace all defective components with parts from the manufacturer.

It is forbidden to manufacture and replace components and parts of the equipment independently.

Recording malfunctions during operation

Date of failure of the product, its component part or structural element	Nature (external manifestation) of the malfunction	Corrective actions taken	Position, full name, signature of the responsible person

Information about repair

Name of a component or structural element	The reason for the repair	Date		Name of the organisation, position, full name, signature of the person who performed the repair
		Put for repair	Out of repair	

9. INSTRUCTION FOR SAFE USE

WARNING! Children are allowed on the equipment only under adult control.

Before operating the product, conduct a visual inspection, check the fasteners and structural strength.

The equipment is used on the playgrounds without constant supervision by operating personnel. In order to ensure the 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 for users.

No foreign particles, sharp objects or jogs are allowed at the playground.

Under playground equipment with a free height of fall of more than 600 mm, an impact-absorbing coating must be provided over the entire fall zone.

Examples of impact-absorbing coating

Material	**Description**	**Minimal depth, mm[a]**	**Height of fall, mm**
Grass	-	-	≤1000
Bark	grain size 20-80 mm	200	≤2000
		300	≤3000
Woodchip	grain size 5-30 mm	200	≤2000
		300	≤3000
Sand or gravel[b]	grain size 0,25-8 mm	200	≤2000
		300	≤3000
Other materials and materials of other depth[c]	Determination during testing in accordance with EN 1177		Critical height of fall obtained during testing

a. For loose granular material, add 100 mm to the minimum thickness.
b. Rounded particles without silt and clay inclusions.
c. Grain size is obtained by sieving through a sieve in accordance with DSTU EN933-1.

WARNING! Operating the product without an impact-absorbing coating may result to serious injury during falling down.

Playground surface materials with low impact-absorbing features should only be used outside the fall zone.

Product use:

- it is recommended to show or tell children how to use the equipment;
- during use it is recommended to hold onto handrails, railings, handles;
- it is forbidden to use until the completion of its full and final installation;
- it is forbidden to use by users of a different age and weight category;
- before using clear the surface from foreign objects, sharp elements, protrusions;
- it is forbidden to move the product elements which are not intended for this;
- 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;
- use of low-quality materials and inadequate qualifications of personnel during installation of the product;

- use of the product earlier than the period necessary to fix the product in the soil or other material;
- design changes to the product that caused injury;
- lack of proper adult control;
- violation of age and weight restrictions by users;
- damage to the product due to improper storage, installation or use of the product for purposes other than those intended.

10. INSTALLATION INSTRUCTION

Installation of the product can be carried out by the manufacturer, service centre or other legal entities and individuals who have the necessary material and technical base and qualifications.

The product is installed on a prepared flat area, free from debris, trees and other obstacles that interfere with installation (when installed in winter, the area shall 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 choose a site with compacted soil in the area of foundation placement.

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, you must:

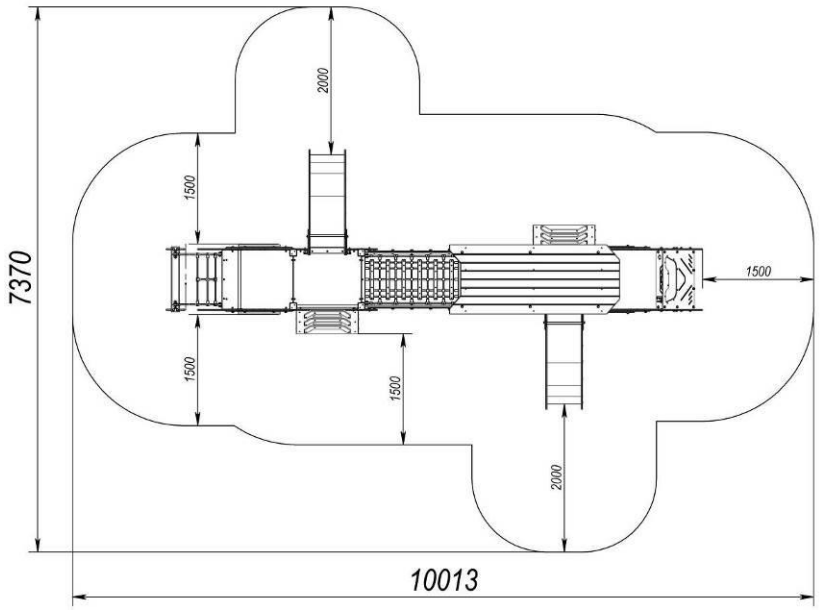
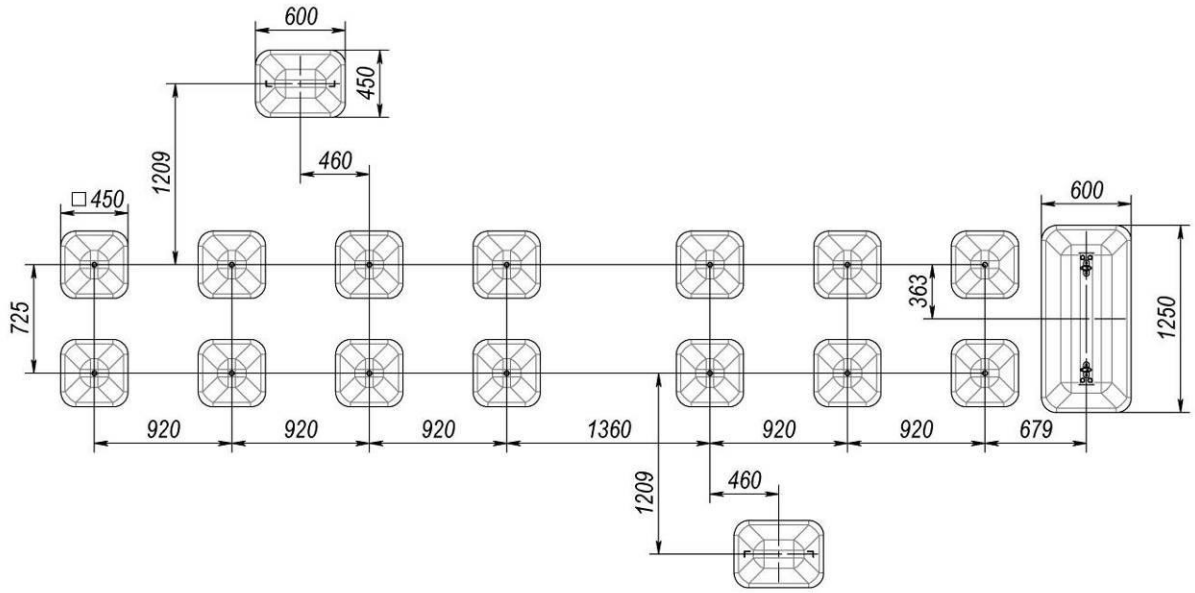
- study the documentation supplied with the product;
- check the completeness in accordance with the documents supplied with the product;
- remove the original packaging from the component part;
- comply with safety requirements.

It is recommended to assemble the product in the order specified in the "Assembly schemes" section.

After completion of installation work and equipment installation, it must be checked for safety, functionality and assembly. Equipment that has not been approved for use must be subject to appropriate and necessary precautions before being put into operation.

WARNING! The presence and participation of children during the installation of the product is not allowed. The equipment must not be accessible for unauthorized persons until full completion of installation work.

Table №1 – Landing zone:

LK511
Landing zone

Concreting zone


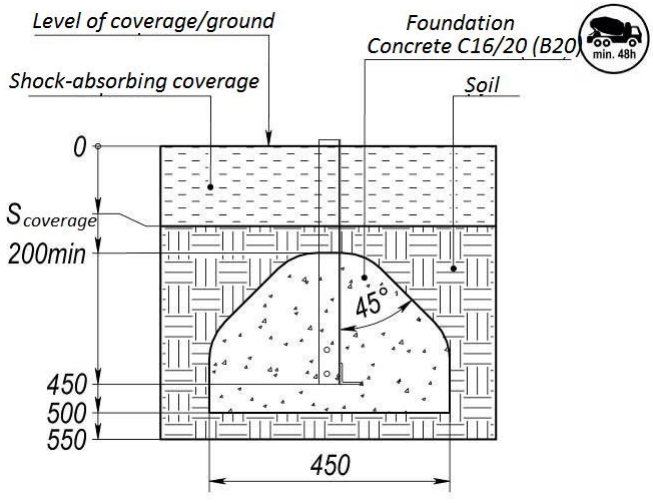
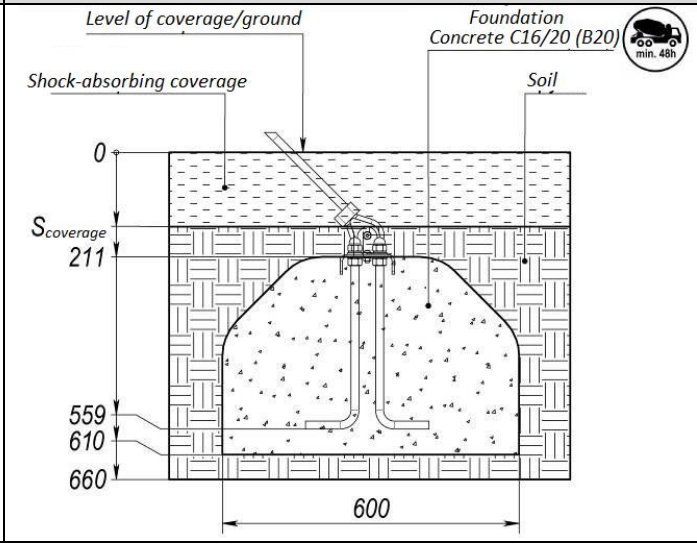
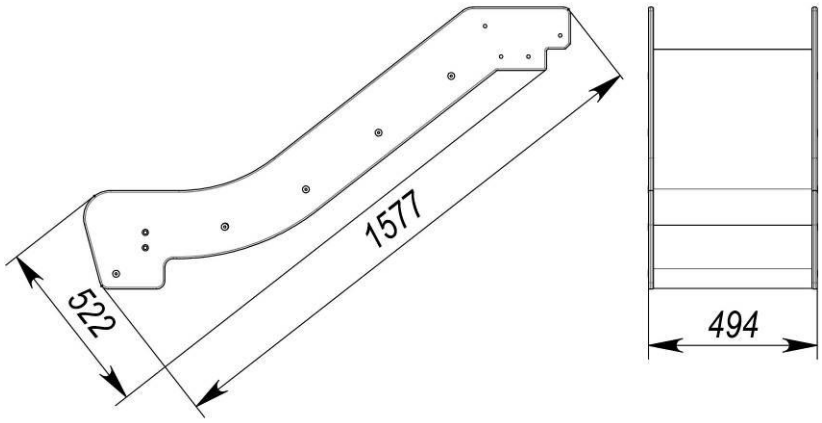
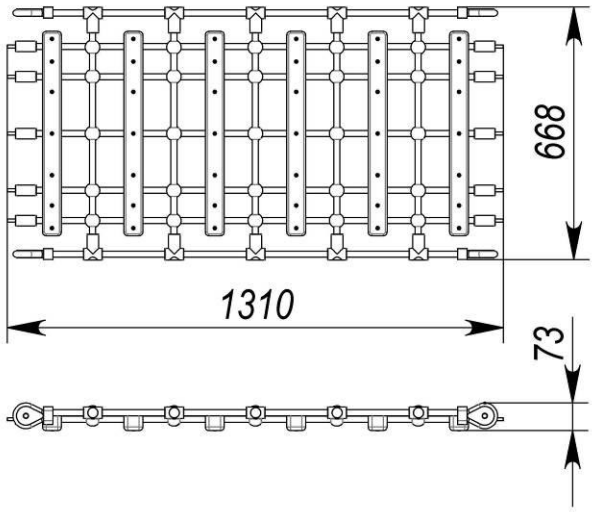
For beam supports and other elements	For rope ladder
	

Table №3 – Overall dimensions and weight of the biggest parts of the product:

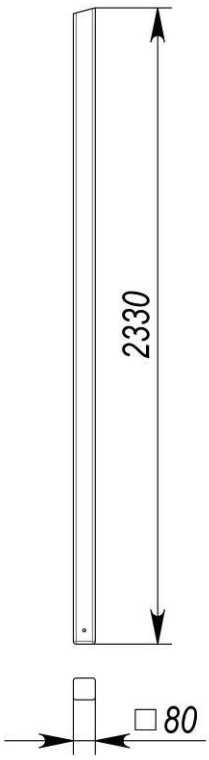
Slide 0,7 m	21 kg

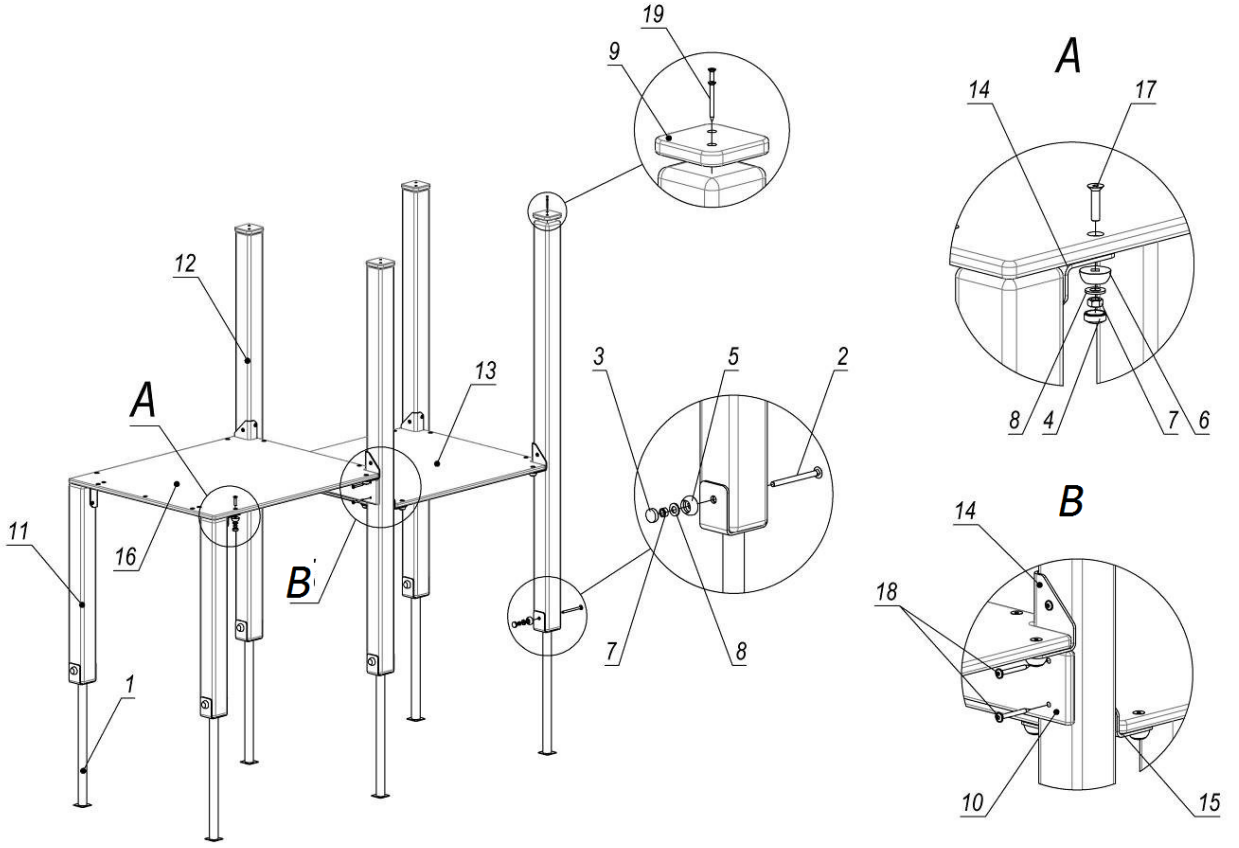


Straight rope bridge	28 kg

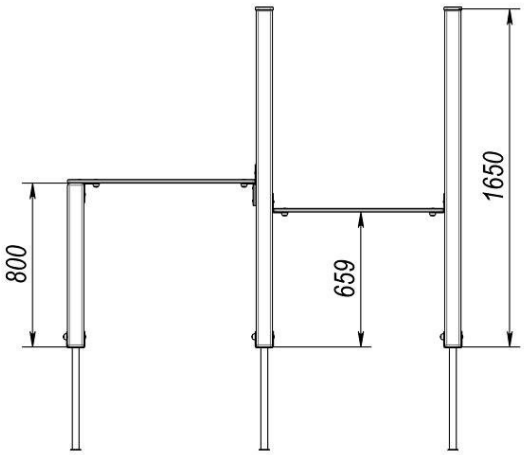


Rack	9 kg

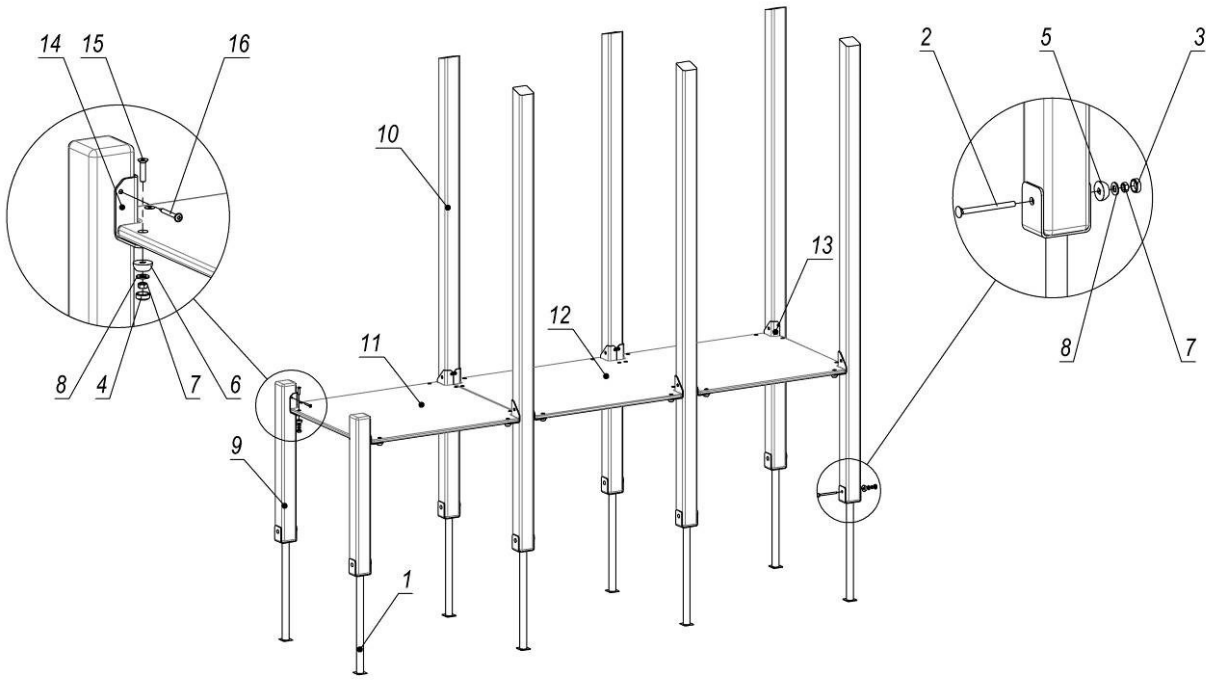




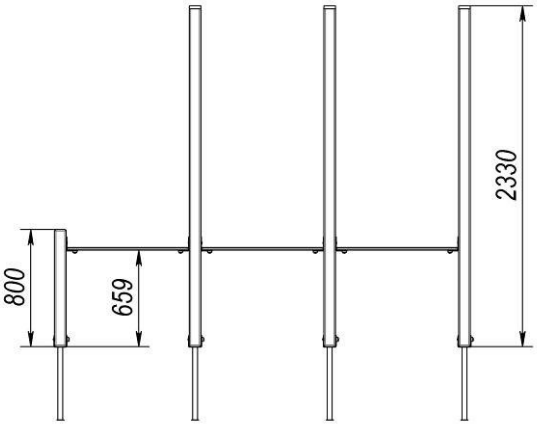
Pos.	Name	Weight	Q-ty
1	Embedded element	2	6
2	Bolt M8*100 DIN 603 (furniture)		6
3	Cap M8		6
4	Cap M8		16
5	Cup M8		6
6	Cup M8		16
7	Nut M8 DIN 934 (6-sided)		22
8	Washer 10 DIN 125 (flat)		22
9	Cap for beam (Mini)		4
10	Cover plate	.	1
11	Rack 0,8m	3	2
12	Beam 1,8m	6	4
13	Platform (0,92x0,8)	10	1
14	Double bearing element	.	4
15	Double bearing element	.	4
16	Platform (0,96x0,8)	10	1
17	Stud M8*35 DIN 7991 (countersunk)		16
18	Screw 6x60 SPAX T-STAR plus (flat, TX30)		20
19	Screw 4*40 DIN 7997 (c-sunk-univ, PZ)		8



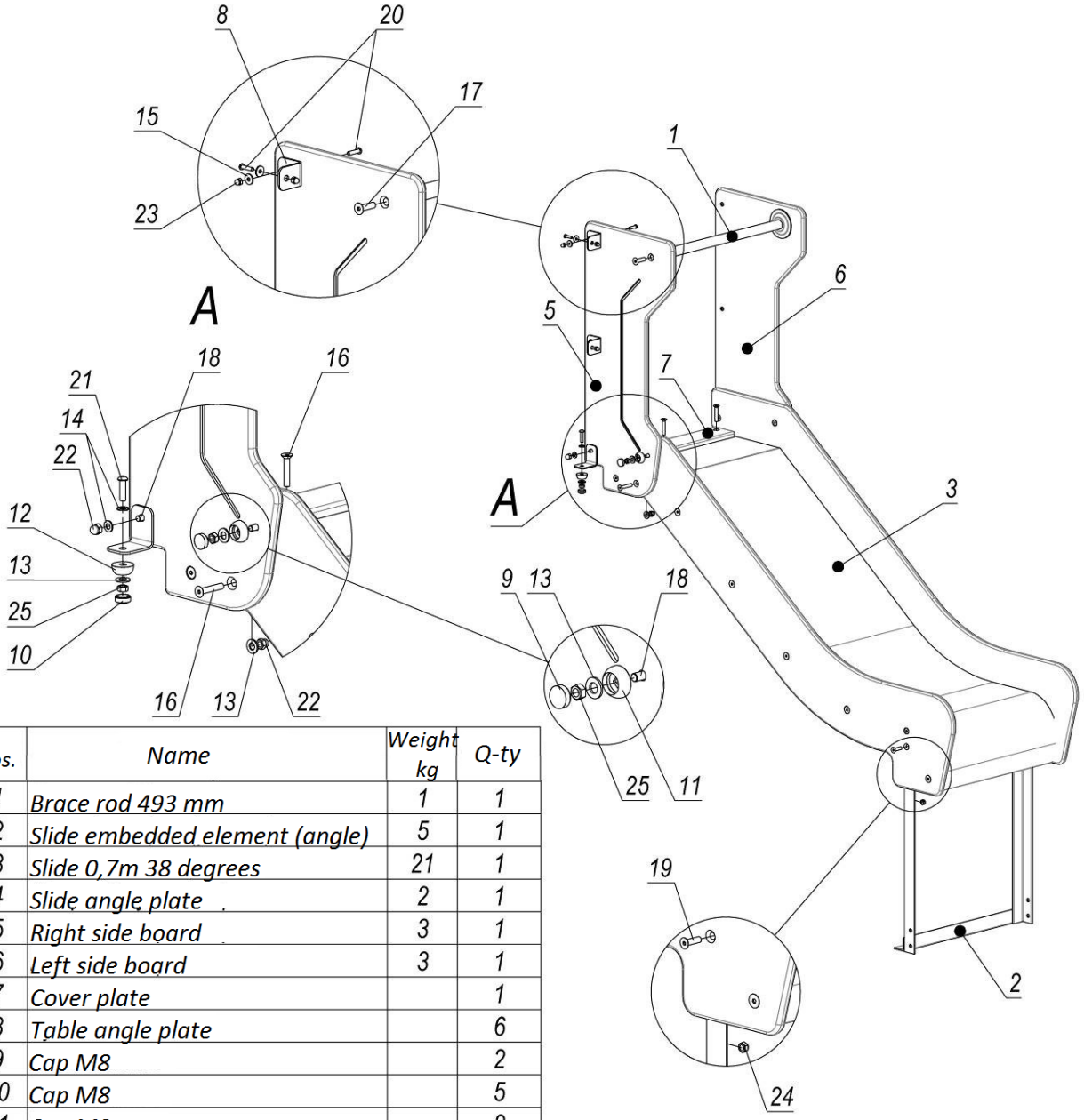
Picture 1 – Double tower assembly scheme



Pos.	Name	Weight	Q-ty
1	Embedded element	2	8
2	Bolt M8*100 DIN 603 (furniture)		8
3	Cap M8		8
4	Cap M8		24
5	Cup M8		8
6	Cup M8		24
7	Nut M8 DIN 934 (6-sided)		32
8	Washer 10 DIN 125 (flat)		32
9	Rack 0,8m	3	2
10	Rack	9	6
11	Playground (0,92x0,8)	10	1
12	Playground (0,68x0,68)	20	1
13	Double bearing element	.	6
14	Double bearing element	.	6
15	Stud M8*35 DIN 7991 (countersunk)		24
16	Screw 6x60 SPAX T-STAR plus (flat, TX30)		24

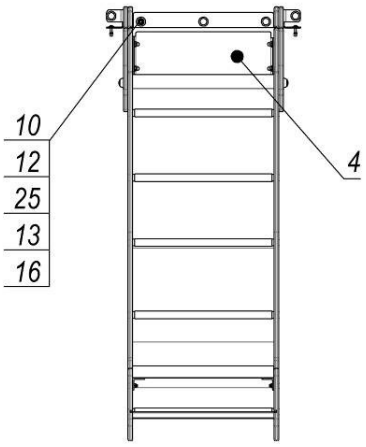


Picture 2 – Triple tower assembly scheme

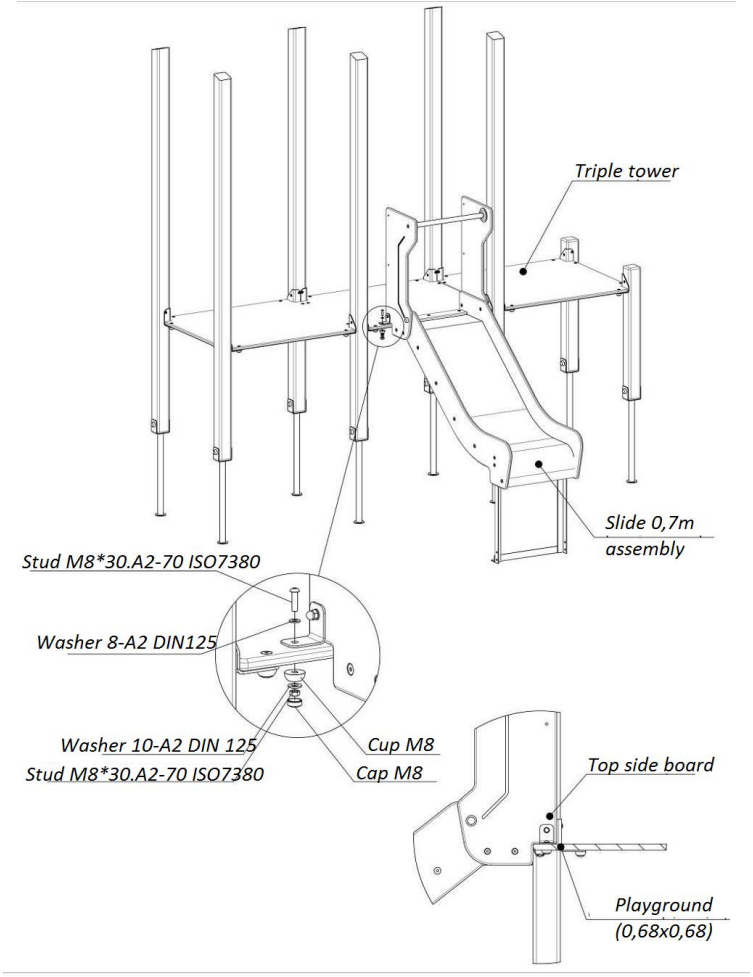


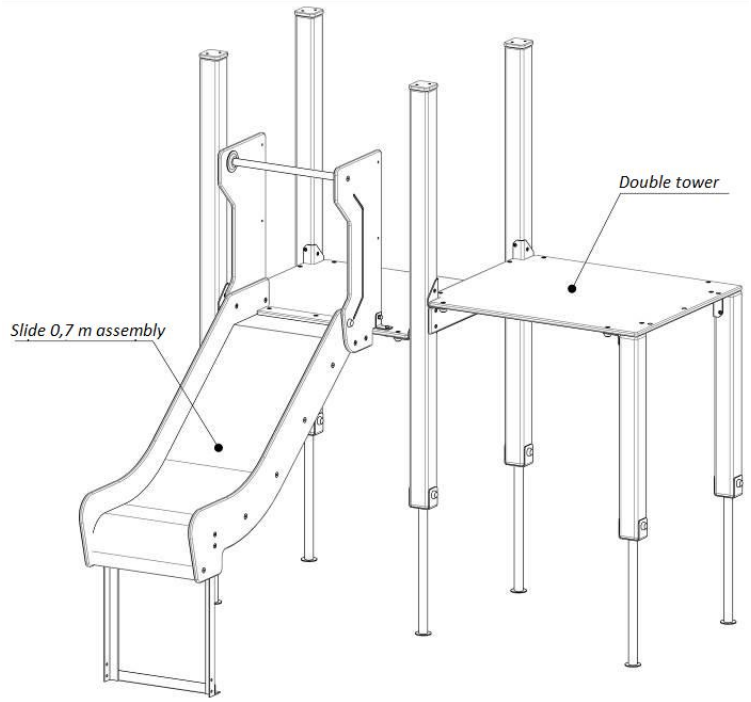
Pos.	Name	Weight kg	Q-ty
1	Brace rod 493 mm	1	1
2	Slide embedded element (angle)	5	1
3	Slide 0,7m 38 degrees	21	1
4	Slide angle plate	2	1
5	Right side board	3	1
6	Left side board	3	1
7	Cover plate		1
8	Table angle plate		6
9	Cap M8		2
10	Cap M8		5
11	Cup M8		2
12	Cup M8		5
13	Washer 10 DIN 125 (flat)		11
14	Washer 8 DIN 125 (flat)		4
15	Washer 6 DIN 9021 (enlarged)		8
16	Stud M8*45 DIN 7991 (c-sunk)		7
17	Stud M10*35 DIN 7991 (c-sunk)		2
18	Stud M8*40 DIN 7991 (c-sunk)		4
19	Stud M8*30 DIN 7991 (c-sunk)		4
20	Stud M6*25 ISO7380(round-head)		8
21	Stud M8*30 ISO7380(round-head)		2
22	Nut M8 DIN 1587 (cap)		6
23	Nut M6 DIN 1587 (cap)		8
24	Nut M8 DIN 985 (lock)		4
25	Nut M8 DIN 934 (6-sided)		7

Bottom view

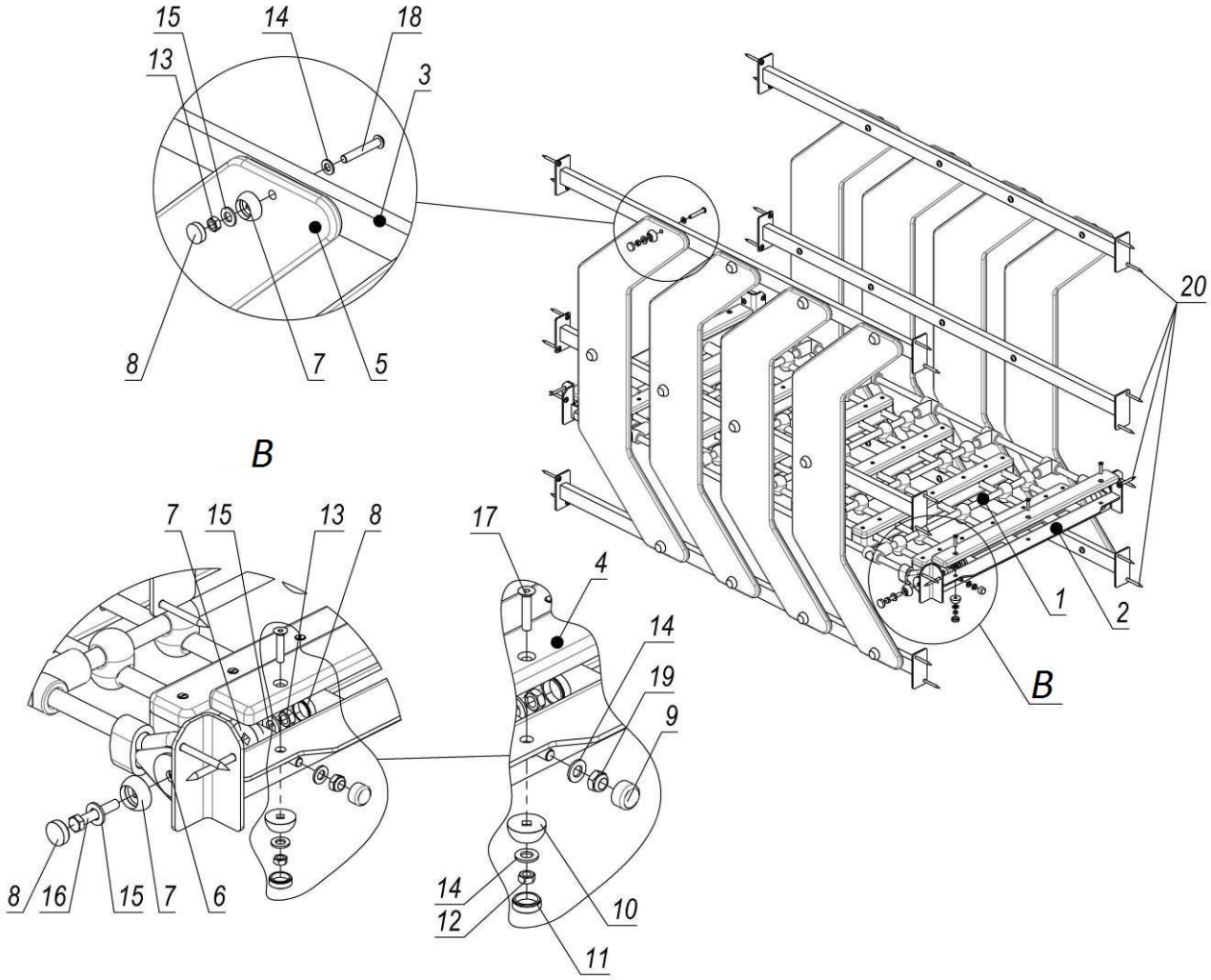


Picture 3 – Slide assembly scheme



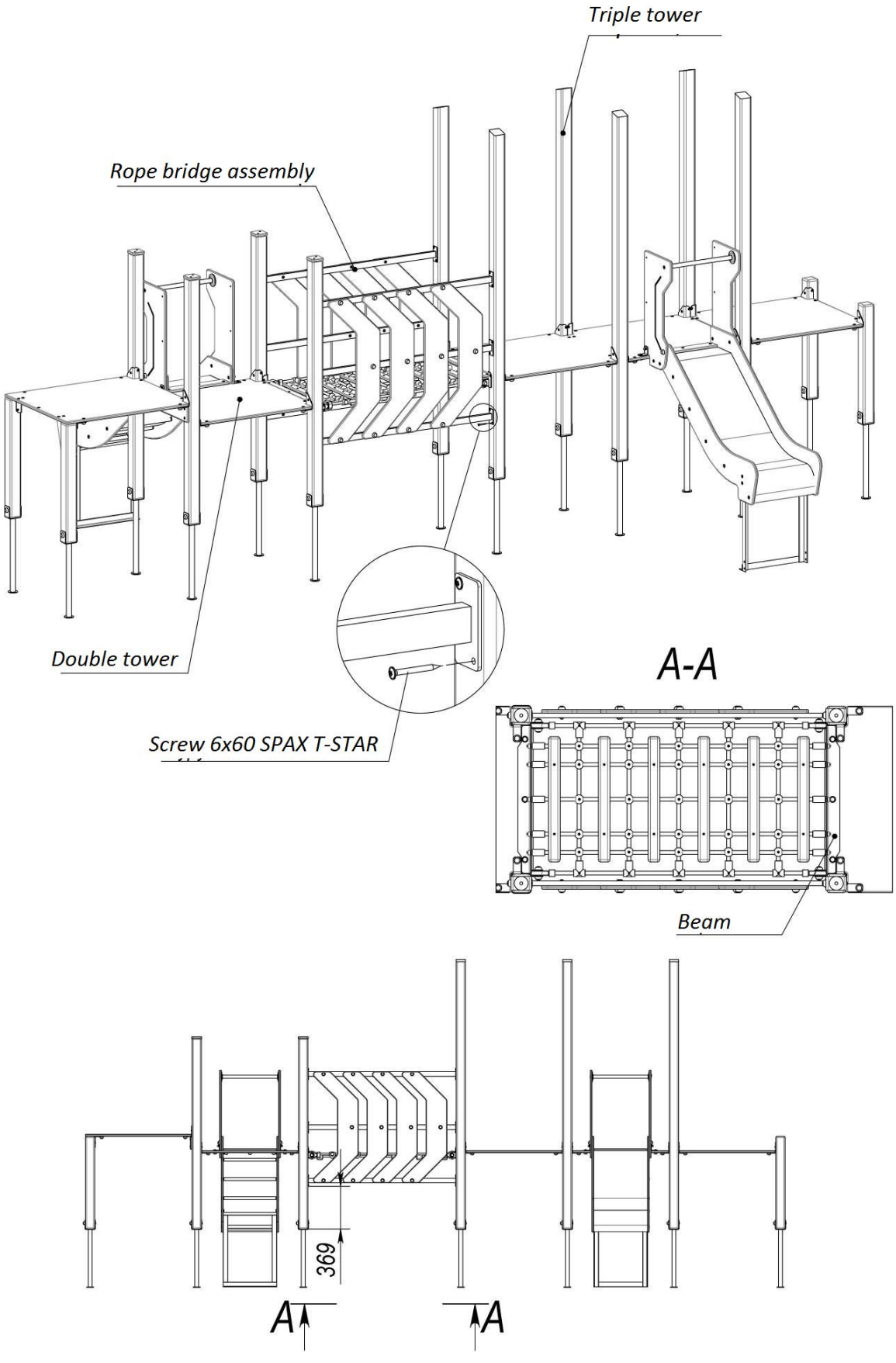


Picture 4 – Slides and tower assembly scheme (Identical installation is for double tower and slide)

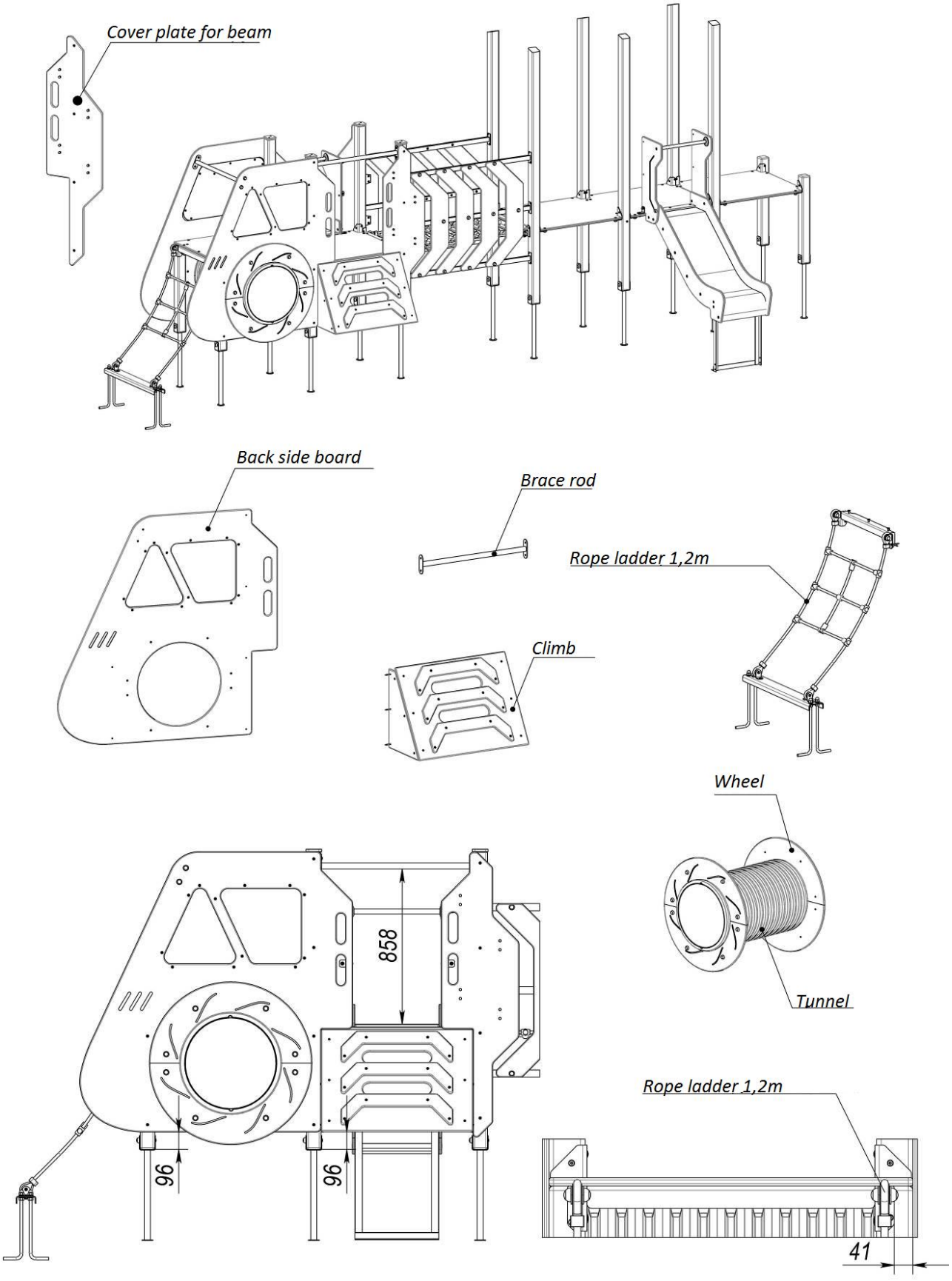


Pos.	Name	Weight	Q-ty
1	Straight rope bridge (LK)	28	1
2	Beam	3	2
3	Handrails framework	2	6
4	Cover plate for bridge		2
5	Cover plate for handrails	2	8
6	Tube d12x1,5 GOST10704, L=22mm		4
7	Cup M8		32
8	Cap M8		32
9	Cap S13		10
10	Cup M6		6
11	Cap M6		6
12	Nut M6.A2-70 DIN 934 (6-sided) stainless steel		6
13	Nut M8.A2-70 DIN 934 (6-sided) stainless steel		28
14	Washer 8-A2 DIN 125 (flat)		40
15	Washer 10-A2 DIN 125 (flat)		32
16	Bolt M8*45.A2-70, DIN 933 (full thread) st.steel		4
17	Stud M6*30.A2-70 DIN 7991 (c-sunk)st.steel		6
18	Stud M8*60.A2-70 ISO 7380 (round-head)s.s.		24
19	Nut M8 A2-70, DIN 985 (lock) stainless steel		10
20	Screw 6x60 SPAX T-STAR plus (flat, TX30)		32

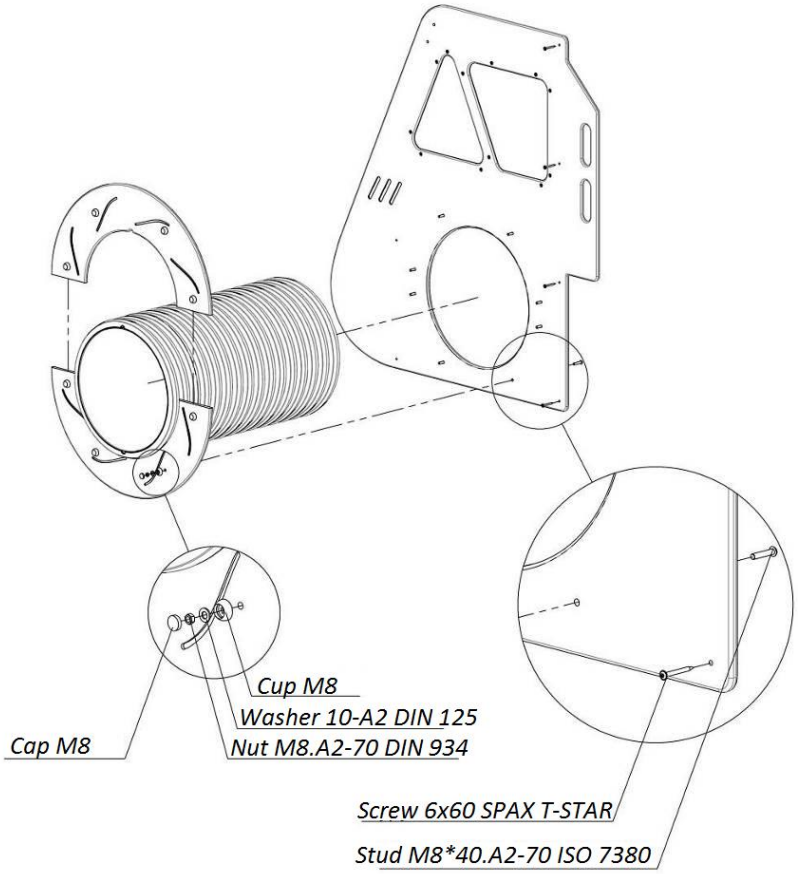
Picture 5 – Rope bridge asembly scheme



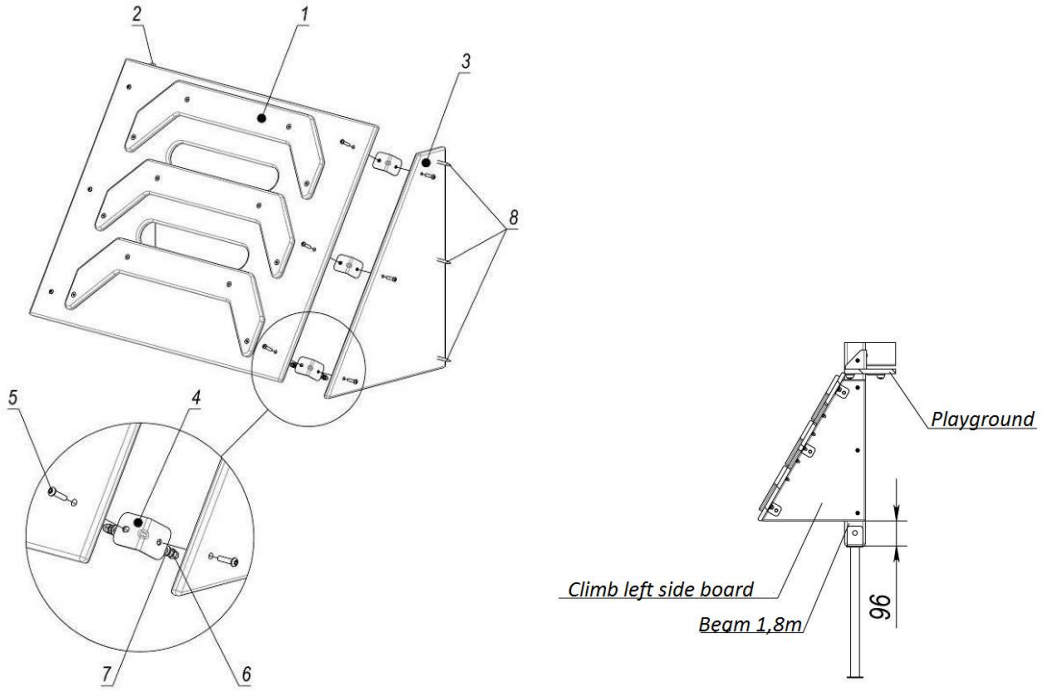
Picture 6 – Bridge between two towers assembly scheme



Picture 7 – Playing elements with double tower installation scheme

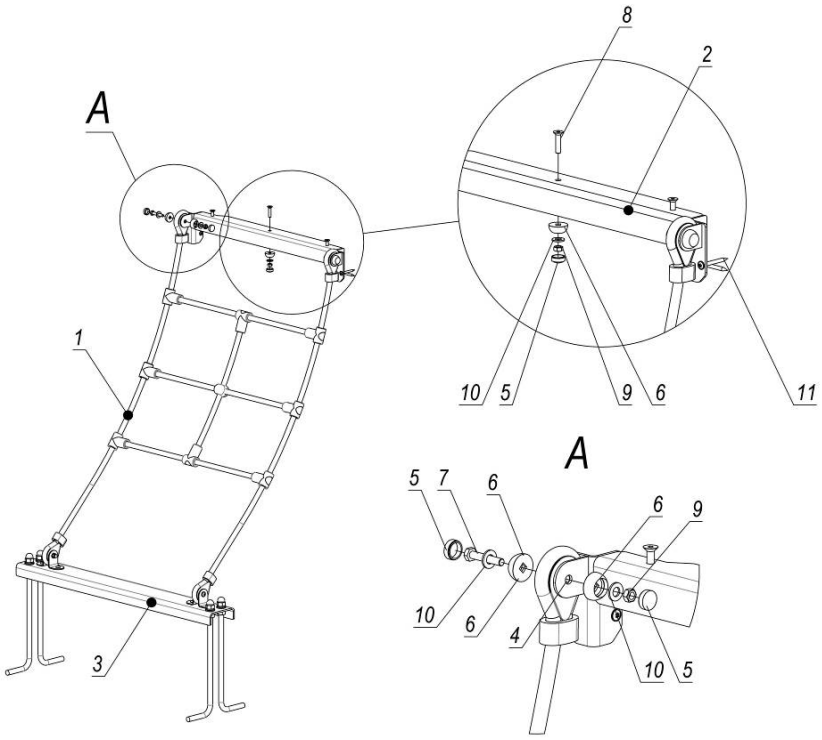


Picture 8 – Tunnel with wheel to side board installation scheme



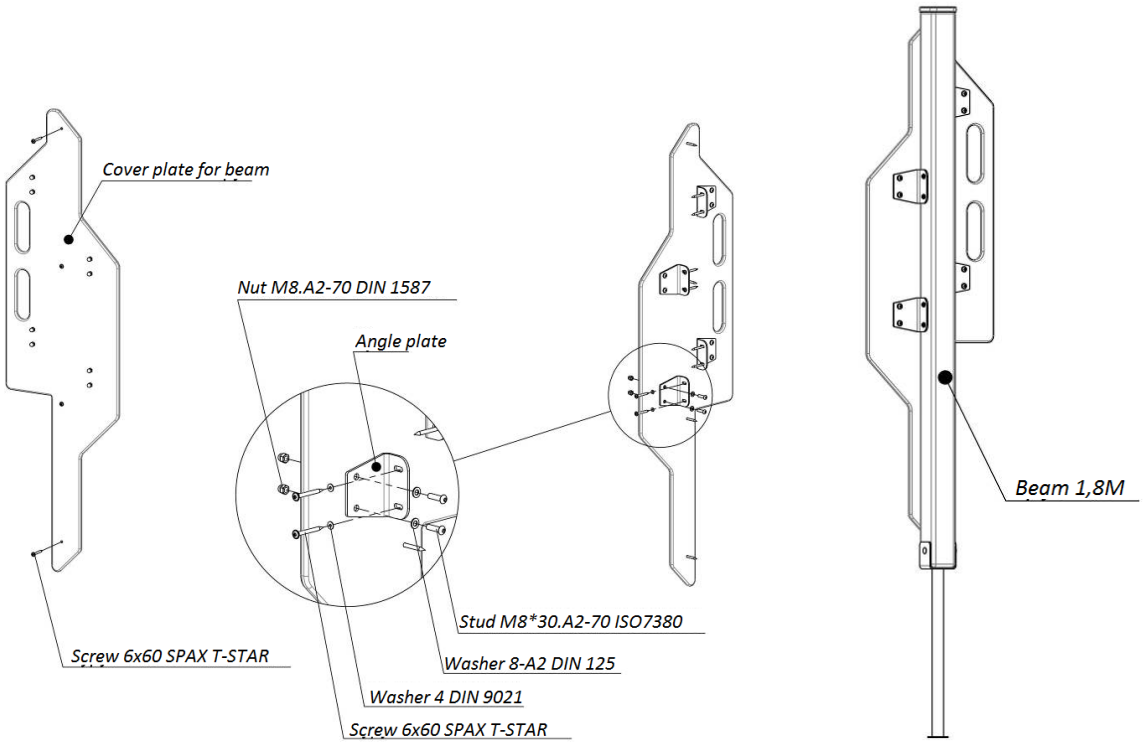
Pos.	Name	Weight,kg	Q-ty
1	Ladder	.	1
2	Left side board	1	1
3	Right side board	1	1
4	Angle plate 45x45x40 (90 degrees)		6
5	Stud M6*25 ISO 7380 (round-head)		12
6	Nut M6 DIN 1587 (cap)		12
7	Washer 6 DIN 125 (flat)		12
8	Screw6x60 SPAX T-STAR plus(flat, TX30)		6

Picture 9 – Climb assembly scheme

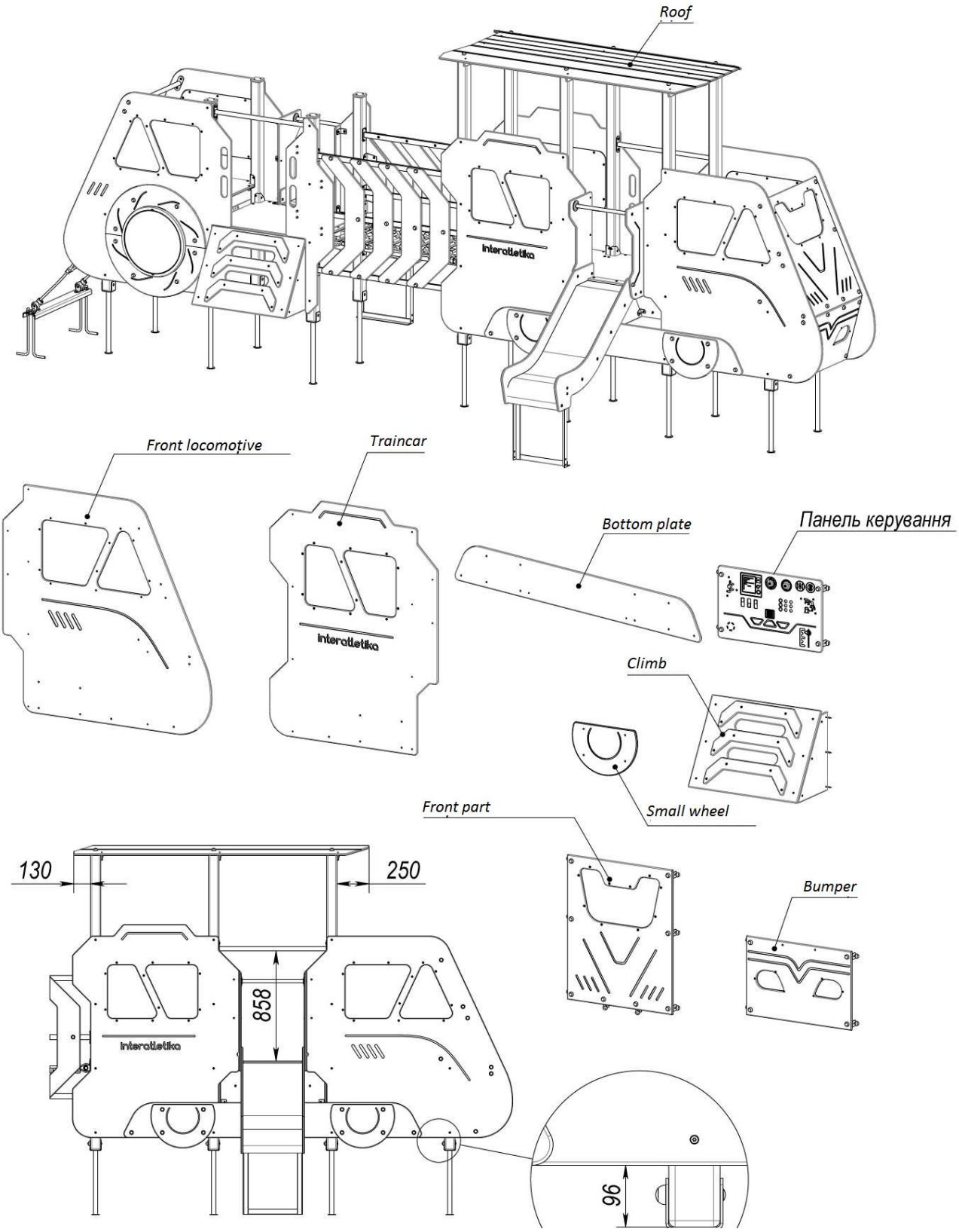


Pos.	Name	Weight,kg	Q-ty
1	Rope ladder 1,2m	2	1
2	Beam	3	1
3	Embedded element	9	1
4	Tube d12x1,5 GOST 10704, L=22mm	.	4
5	Cap M8	.	7
6	Cup M8	.	7
7	Bolt M8*45.A2-70 DIN933(full thr.) st.steel		2
8	Stud M8x35-A2 DIN7991 stainless steel		3
9	Nut M8.A2-70 DIN 934 (6-sided) stainless steel		5
10	Washer 10-A2 DIN 125 (flat)		7
11	Screw 6x60 SPAX T-STAR plus (flat, TX30)	.	4

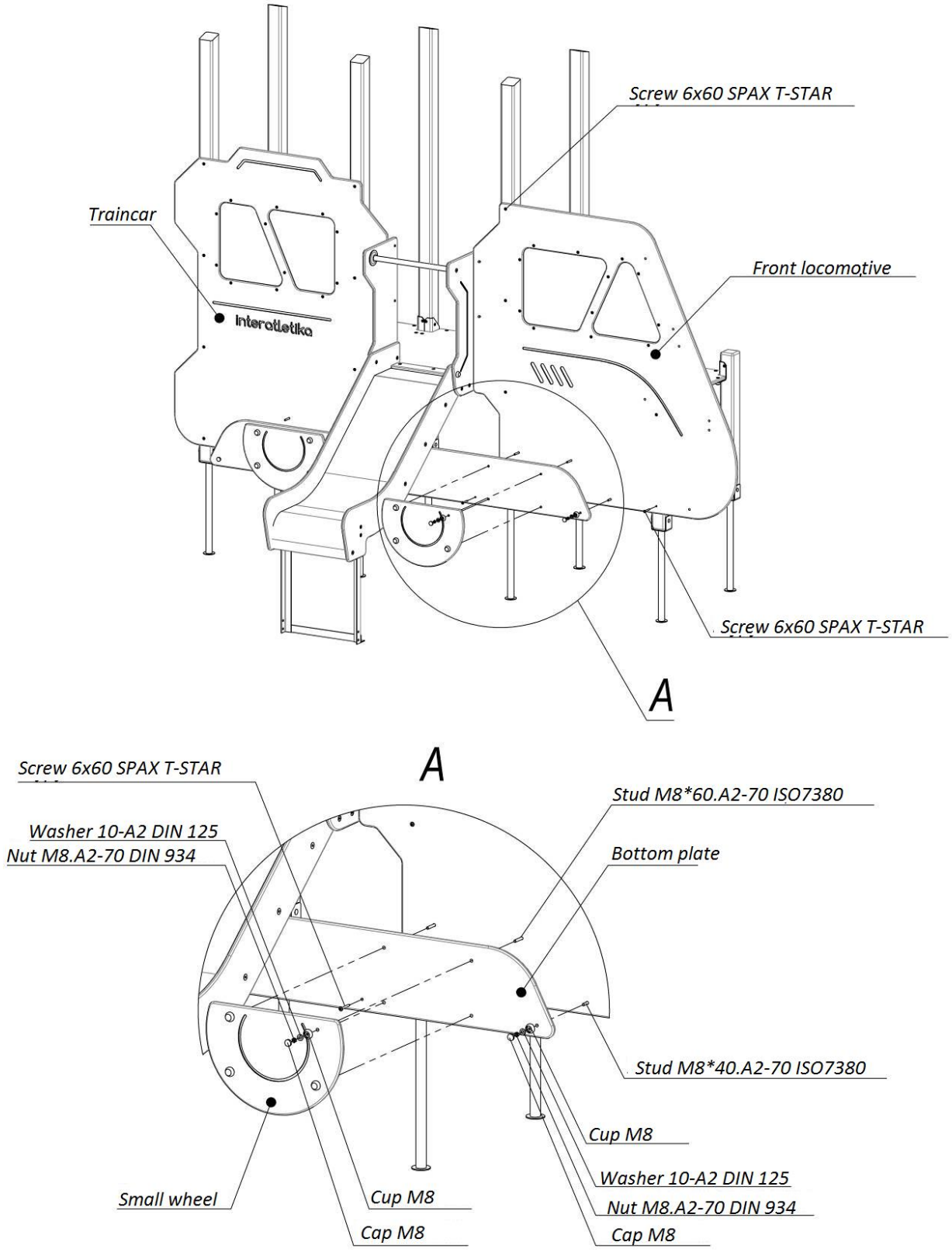
Picture 10 – Rope ladder assembly scheme



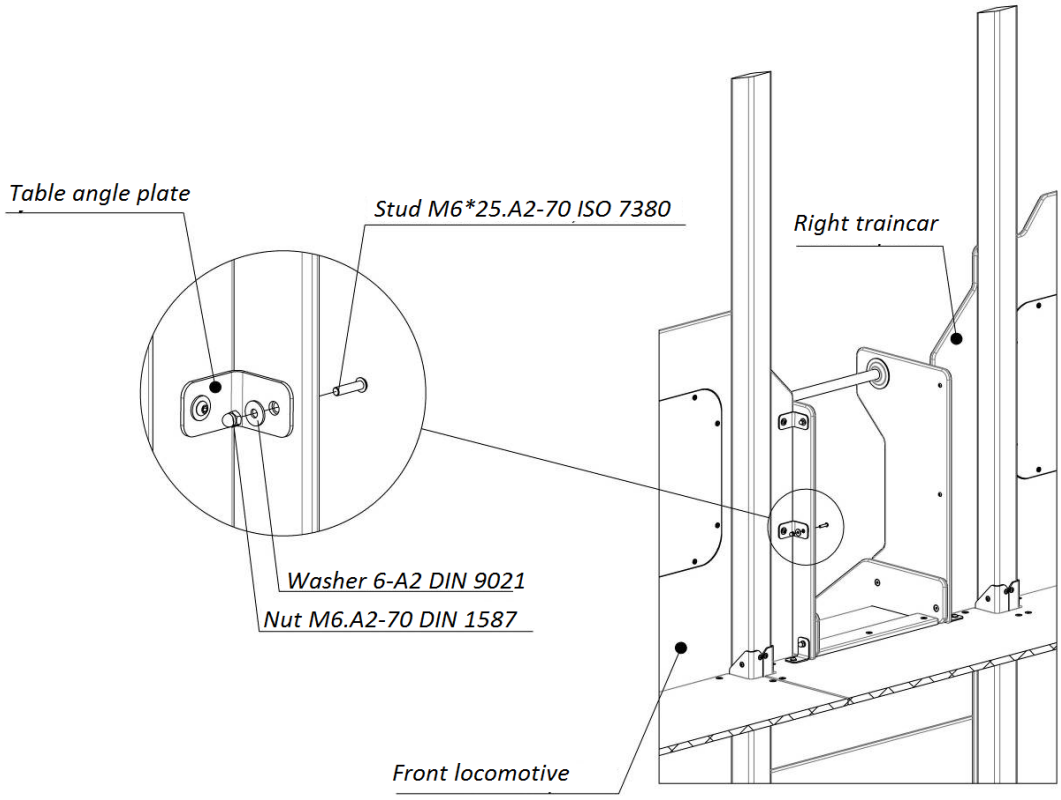
Picture 11 – Cover plate installation scheme



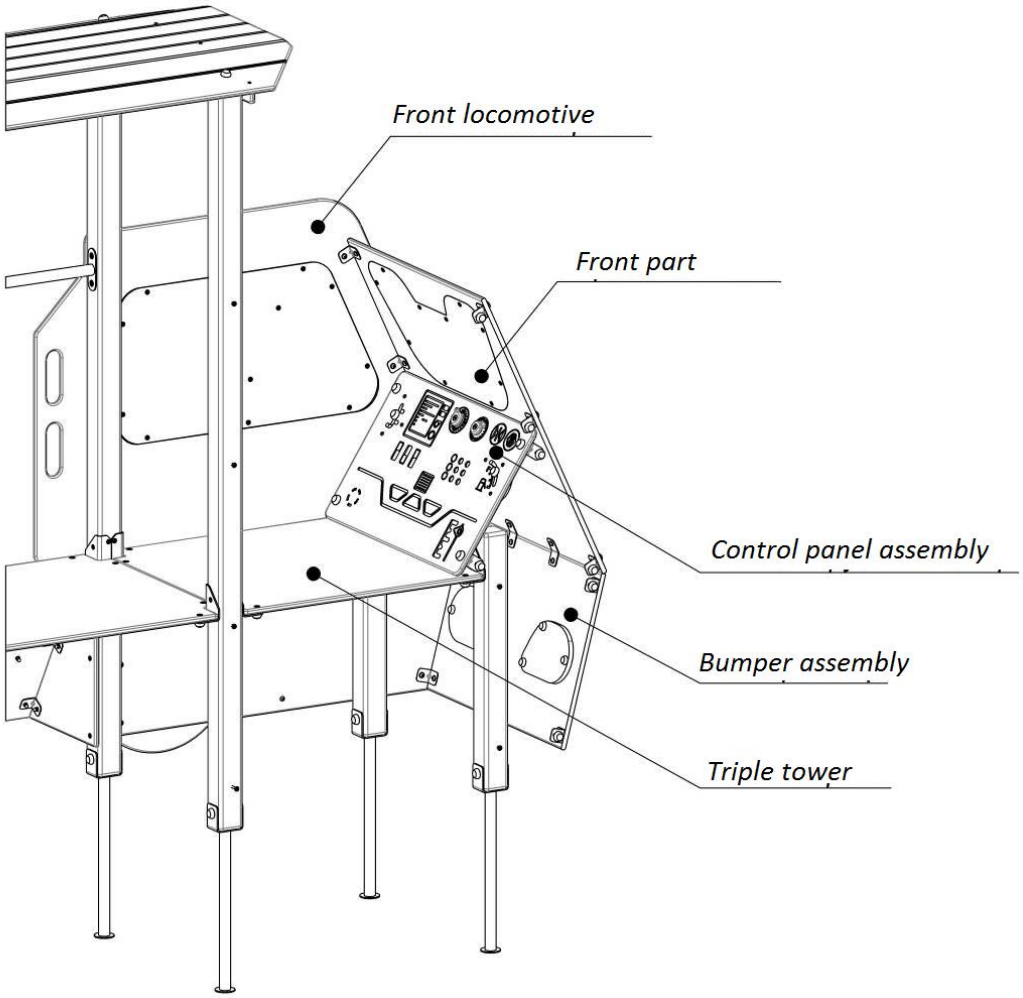
Picture 12 – Playing elements with triple tower installation scheme



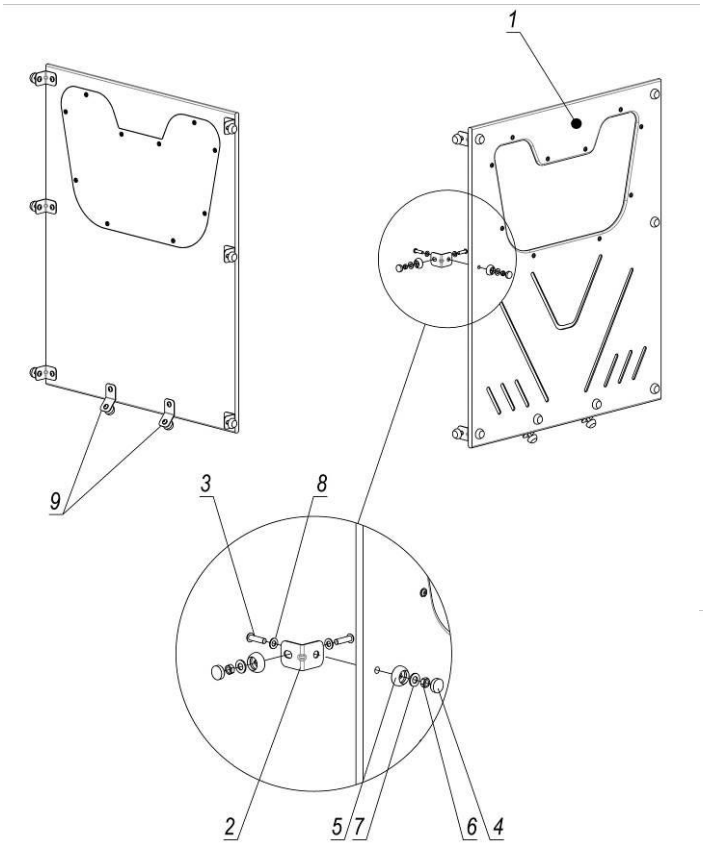
Picture 13 – Traincar and locomotive installation scheme



Picture 14 – Slide with traincar and locomotive installtion scheme (add. see picture 4)

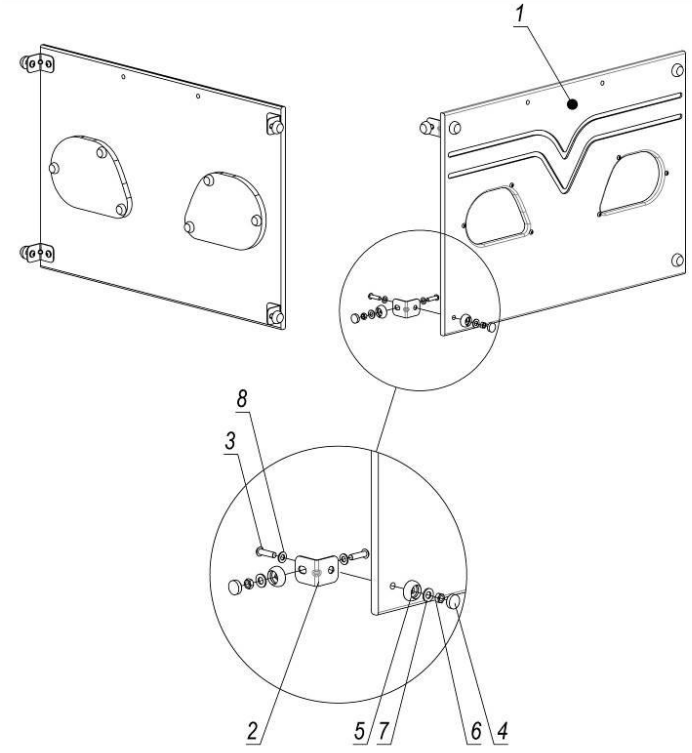


Picture 15 – General view of locomotive front part installation



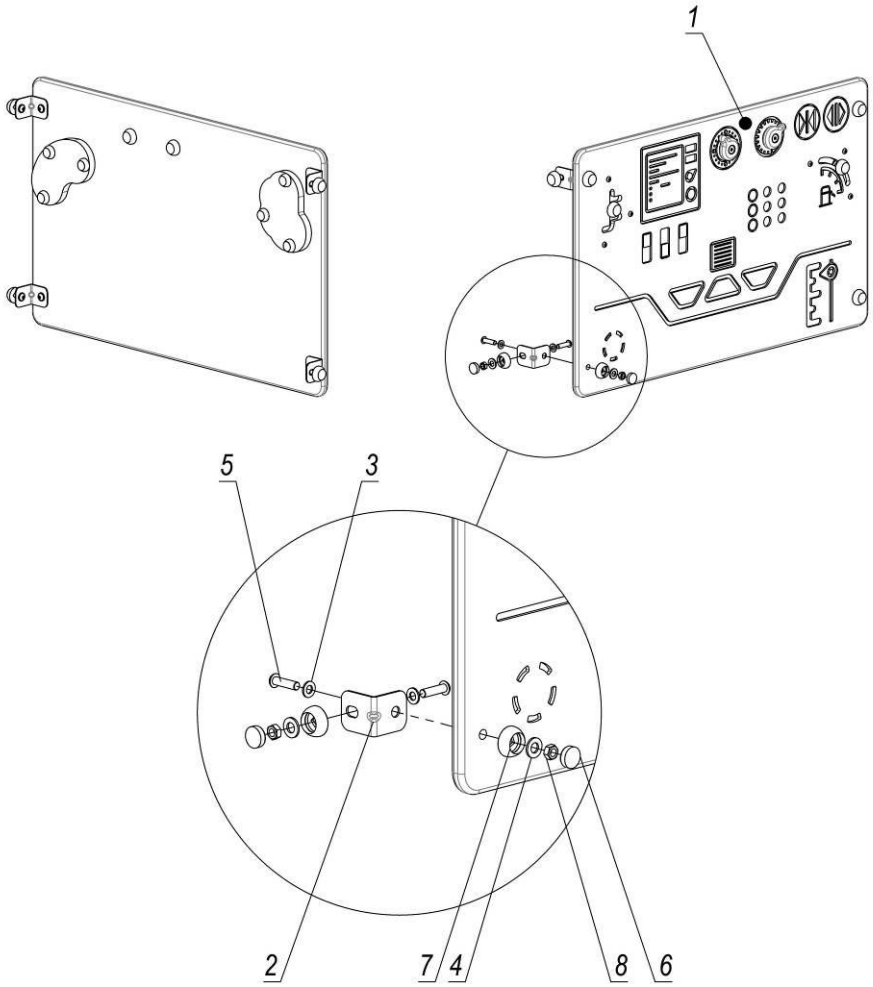
Pos.	Name	Weight,kg	Q-ty
1	Front part	11	1
2	Angle plate 45x45x40 (90 degrees)	.	6
3	Stud M8*30.A2-70 ISO7380 (round-h)s.s.		16
4	Cap M8	.	16
5	Cup M8	.	16
6	Nut M8.A2-70 DIN 934 (6-sided) st.steel		16
7	Washer 10-A2 DIN 125 (flat)		16
8	Washer 8-A2 DIN 125 (flat)		16
9	Plate	.	2

Picture 16 – Front part assembly scheme



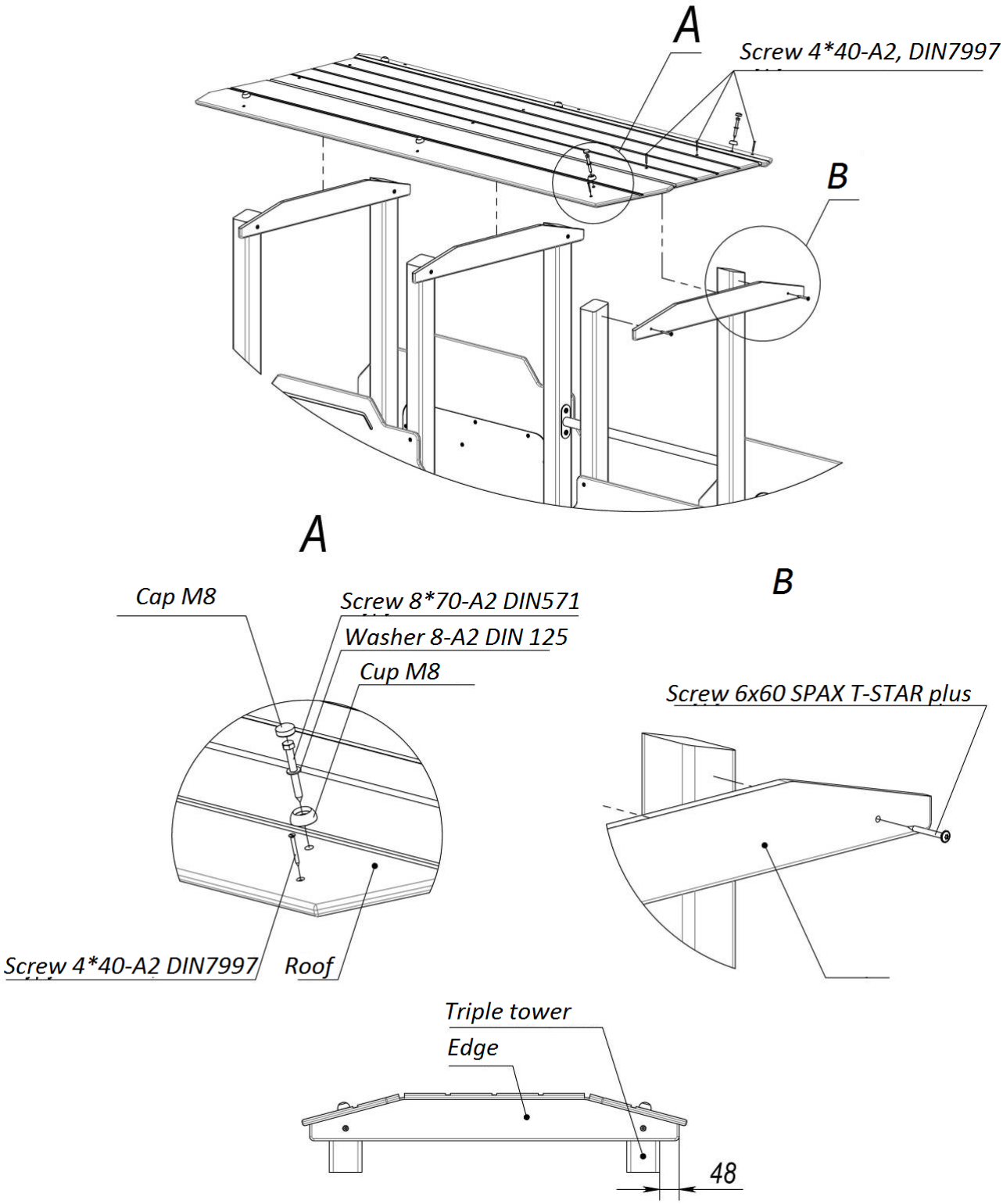
Pos.	Name	Weight,kg	Q-ty
1	Bumper assembly	7	1
2	Angle plate 45x45x40 (90 degrees)	.	4
3	Stud M8*30.A2-70 ISO7380(round-h)st.steel		8
4	Cap M8	.	8
5	Cup M8	.	8
6	Nut M8.A2-70 DIN 934 (6-sided) stainless steel		8
7	Washer 10-A2 DIN 125 (flat)		8
8	Washer 8-A2 DIN 125 (flat)		8

Picture 17 – Bumper assembly scheme

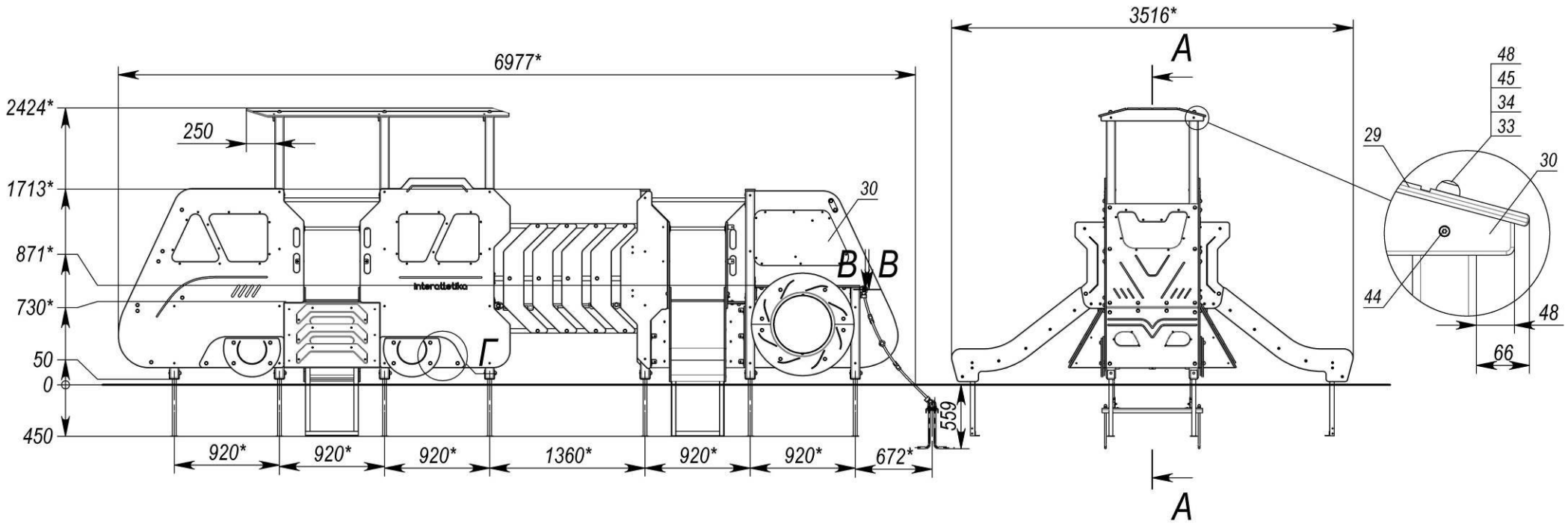


Pos.	Name	Weight	Q-ty
1	Control panel assembly	6	1
2	Angle plate 45x45x40 (90 degrees)	.	4
3	Washer 8-A2 DIN 125 (flat)		8
4	Washer 10-A2 DIN 125 (flat)		8
5	Stud M8*30.A2-70 ISO7380 (round-h)s.s.		8
6	Cap M8	.	8
7	Cup M8	.	8
8	Nut M8.A2-70 DIN 934 (6-sided) stainless st.		8

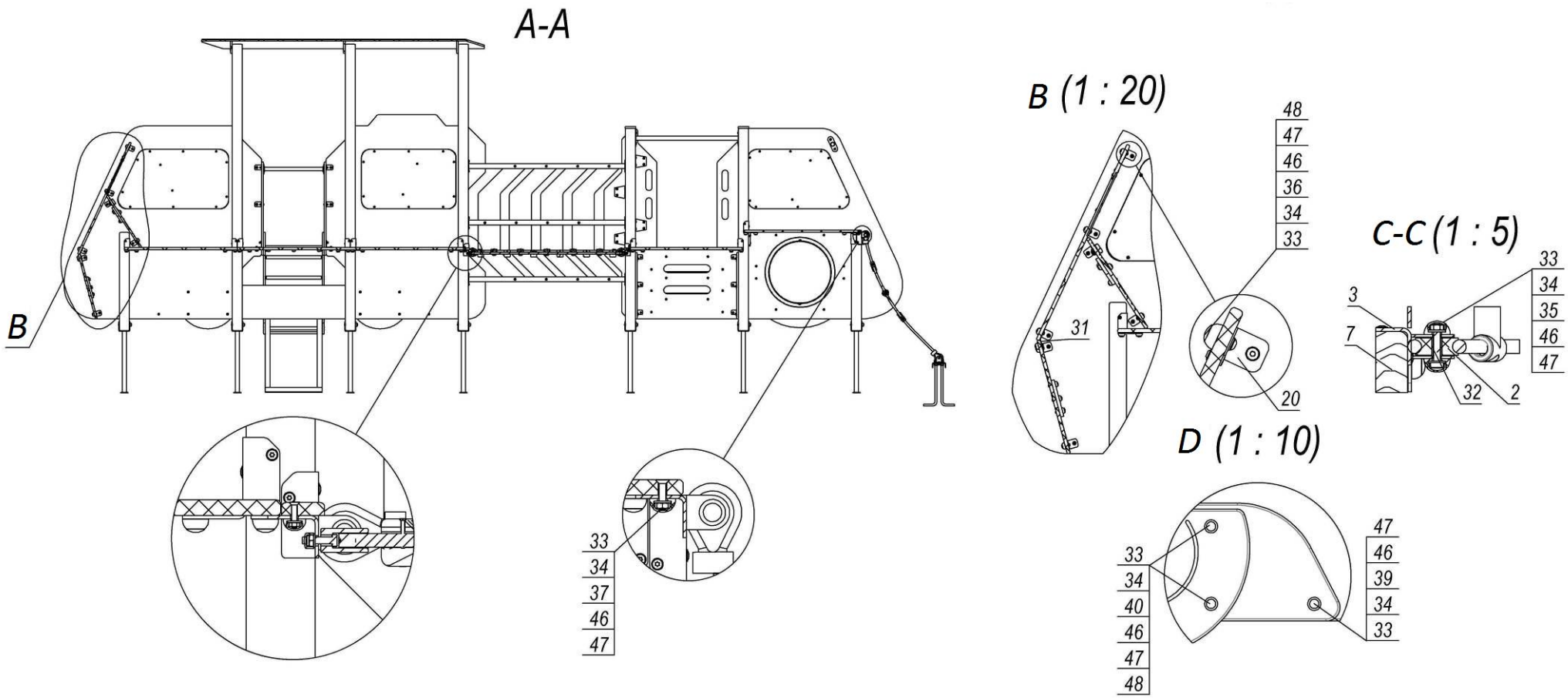
Picture 18 – Control panel assembly scheme



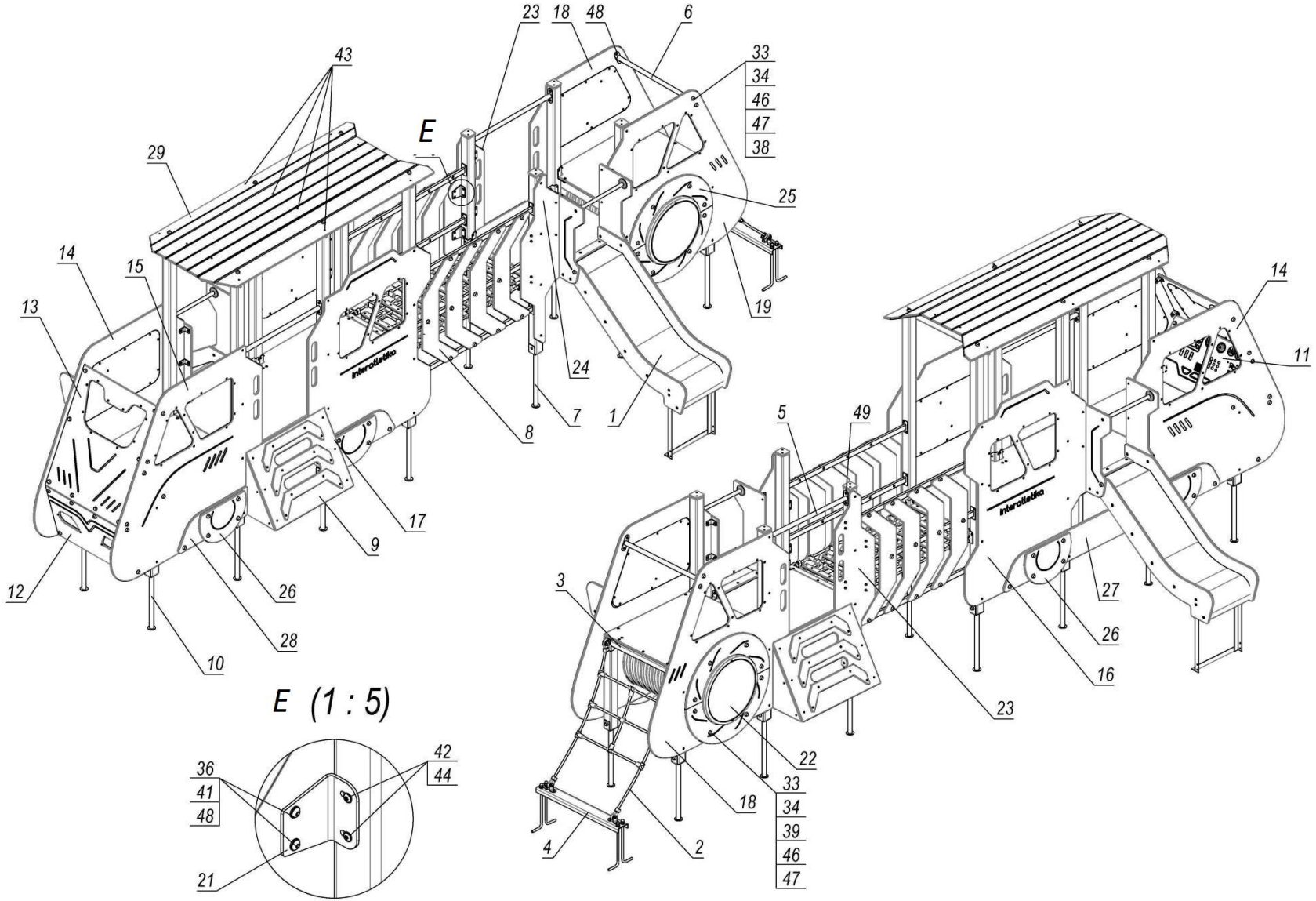
Picture 19 – Roof installation scheme


6977*
3516*
2424*
1713*
871*
730*
50
0
450
250
30
B
B
A
A
Г
559
920*
920*
920*
1360*
920*
920*
672*
48
45
34
33
29
30
44
48
66

Picture 20


A-A
B
33
34
37
46
47
B (1 : 20)
48
47
46
36
34
33
31
20
C-C (1 : 5)
33
34
35
46
47
3
7
32
2
D (1 : 10)
47
46
39
34
33
33
34
40
46
47
48

Picture 21


E
E (1 : 5)
23
18
48
6
43
33
34
46
47
38
29
25
14
15
13
19
24
8
7
1
17
9
12
26
28
10
5
49
14
11
3
27
26
16
23
22
33
34
39
46
47
18
4
2
36
41
48
42
44
21

Picture 22

Pos.	Name	Weight	Q-ty
1	Slide 0,7m assembly (train)	37	2
2	Rope ladder 1,2m (City)	2	1
3	Beam	3	1
4	Embedded element	10	1
5	Brace rod	2	2
6	Brace rod	2	1
7	Double tower	66	1
8	Rope bridge assembly	68	1
9	Climb	12	2
10	Triple tower	107	1
11	Control panel assembly	6	1
12	Bumper assembly	7	1
13	Front part	10	1
14	Front locomotive	28	1
15	Front locomotive	28	1
16	Right traincar	25	1
17	Left traincar	25	1
18	Back locomotive	21	1
19	Back locomotive	22	1
20	Angle plate 45x45x40 (90 degrees)		14
21	Angle plate		6
22	Tunnel	9	1
23	Beam cover plate	6	1
24	Beam cover plate	6	1
25	Wheel	3	4

Pos.	Name	Weight	Q-ty
26	Small wheel	2	4
27	Bottom plate	8	1
28	Bottom plate	3	2
29	Roof	29	1
30	Edge	1	3
31	Plate		2
32	Tube s12x1,5 GOST10704 L=22mm		4
33	Cap M8		85
34	Cup M8		85
35	Bolt M8*45.A2-70 DIN 933(full thread) stainless steel		2
36	Stud M8*30.A2-70 ISO7380 (round-head) stainless s.		44
37	Stud M8x35-A2 DIN7991 stainless steel		3
38	Stud M8*35.A2-70 ISO7380 (round-head) st.steel		4
39	Stud M8*40.A2-70 ISO7380 (round-head) st. steel		20
40	Stud M8*60.A2-70 ISO7380 (round-head) st. steel		16
41	Nut M8.A2-70 DIN 1587 (cap) stainless steel		12
42	Washer 4 DIN 9021 (enlarged)		12
43	Screw 4*40-A2 DIN 7997 (c-sunk-univ, PZ) st.steel		12
44	Screw 6x60 SPAX T-STAR plus (flat, TX30)		78
45	Screw 8*70.A2-70 DIN571 (6-sided) stainless steel		6
46	Nut M8.A2-70 DIN 934 (6-sided) stainless steel		77
47	Washer 10-A2 DIN 125 (flat)		79
48	Washer 8-A2 DIN 125 (flat)		70
49	Washer 6-A2 DIN 9021 (enlarged) stainless steel		8

Picture 23