

interatletika™

PRODUCTION AND SALE OF CHILDREN'S AND OUTDOOR
EQUIPMENT

Customer support:

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LK331 – Shadow canopy Scandinavia

LK331-A - Shadow canopy Scandinavia (with polycarbonate)

LK331-F - Shadow canopy Scandinavia (with floor)

LK331-FA - Shadow canopy Scandinavia (floor/ polycarbonate)

DATA SHEET



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1. GENERAL INFORMATION

1.1 Item number _____.

1.2 Name _____.

1.3 Manufacturer LLC «Company Sporttechnika», Ukraine, city of Chernihiv, Ushynskoho St., 24.

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

1.5 Produced in accordance with regulatory documents: TC AT 28.9-31597759-001:2012.

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

- physical development of the child;

- development of coordination of movements, overcoming fear of heights, development of agility and courage, a 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

	LK331	LK331-A	LK331-F	LK331-AF
Length, mm	4110	4110	4110	4110
Width, mm	4300	4300	4300	4300
Height, mm	3471	3471	3471	3471
Free fall height, mm	-	-	150	150
Weight, kg	1550	1639	2385	2473
Age range, years	3...12	3...12	3...12	3...12
Weight limits, kg	to 60	to 60	to 60	to 60

3. COMPLETENESS

Complete set of the product is given in the «Information about the complete set» та «Complete sets of hardware», supplied with the product.

4. CERTIFICATE OF ACCEPTANCE, PACKAGING AND CONSERVATION

Product _____, serial number _____ complies with regulatory documents TC AT 28.9-31597759-001:2012 and recognised as roadworthy.

Quality control mark: «____» _____ 20__ year.

S.P.

Date

Full name

Packed by LLC «Company Sporttechnika» 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 ABOUT STORAGE, TRANSPORTATION AND RECYCLING

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 damages.

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 INSPECTION AND VERIFICATION

Before starting the operation of the product, it is visually inspected, checked: the integrity of paint coating, 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 from packaging materials, construction debris and other foreign objects.

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

7 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, check 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. If the product is damaged, fully or partially inoperable, or otherwise defective, it is prohibited to use the product.

2. Scheduled inspection is carried out every three months.

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

In the process of inspection, they determine:

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

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

3. Annual inspection is held every 12 months to establish the overall safety level of the equipment.

In the process of visual and functional inspection it is determined:

- structural stability;
- integrity of the foundation;
- strength of units of item elements connection;
- wear of sliding surfaces and grips.

Special attention should be given to:

- assessing the impact of weather events;
- the presence of rot or corrosion;
- parts that are closed to access during the entire period of operation.

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

Maintenance recording

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 FAULT RECORDING

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 fault	Corrective actions taken	Position, full name, signature of the responsible person

Information about the 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. INSTRUCTIONS FOR SAFE OPERATION

WARNING. Children are allowed on the equipment only under adult supervision.

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

The equipment is used on 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 to children.

There should not be foreign objects, sharp elements, protrusions on the surface of the playground.

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

Examples of impact-absorbing coatings

Material ¹	Description	Minimal depth, mm	Free 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
Other materials ³	Characteristics of the tested material		Critical drop height obtained during testing
1. Materials are specially made for the playgrounds. 2. No clay inclusions should be present. 3. Grain size is obtained by sieving through a sieve as in EN933-1.			

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

Playground surface materials with low impact-absorbing characteristics are used only outside the fall zone.

Product operation:

- 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 customers of a different age and weight category;
- before using clear the safety zone from foreign objects, sharp elements, protrusions;
- it is forbidden to move the product elements not intended for this purpose;
- do not operate in difficult weather conditions (ice, snow, rain, hail, strong wind, etc.), which may cause 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 supervision;
- 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.

10. INSTALLATION INSTRUCTIONS

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.

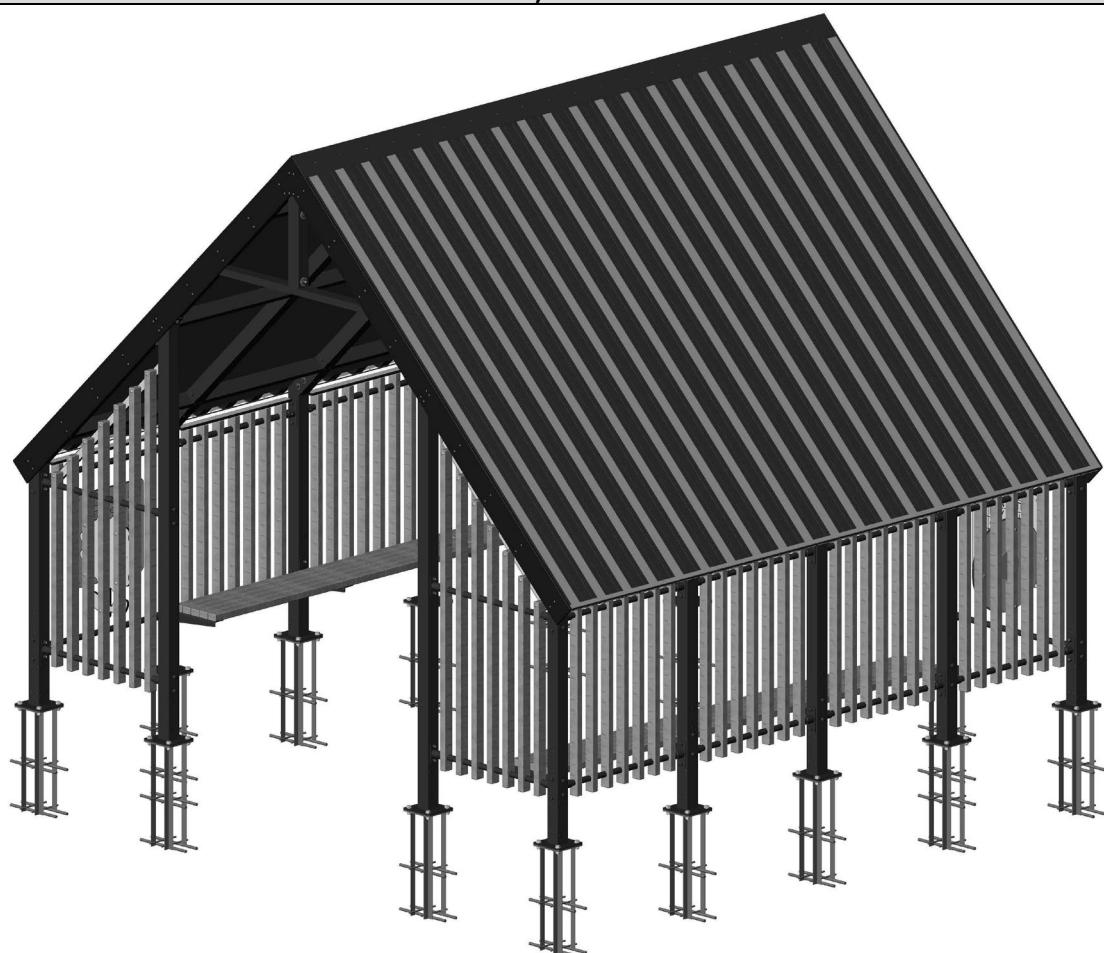
To avoid cracking of the wood, for screws with a diameter of more than 4 mm, drill holes with a diameter of 0.6...0.7 mm to a depth of 0.8 of the screw's length.

WARNING. The presence and participation of children during the installation of the product is not allowed.

Install the product in stages, following the instructions in the appendix.

Table №1 – General view:

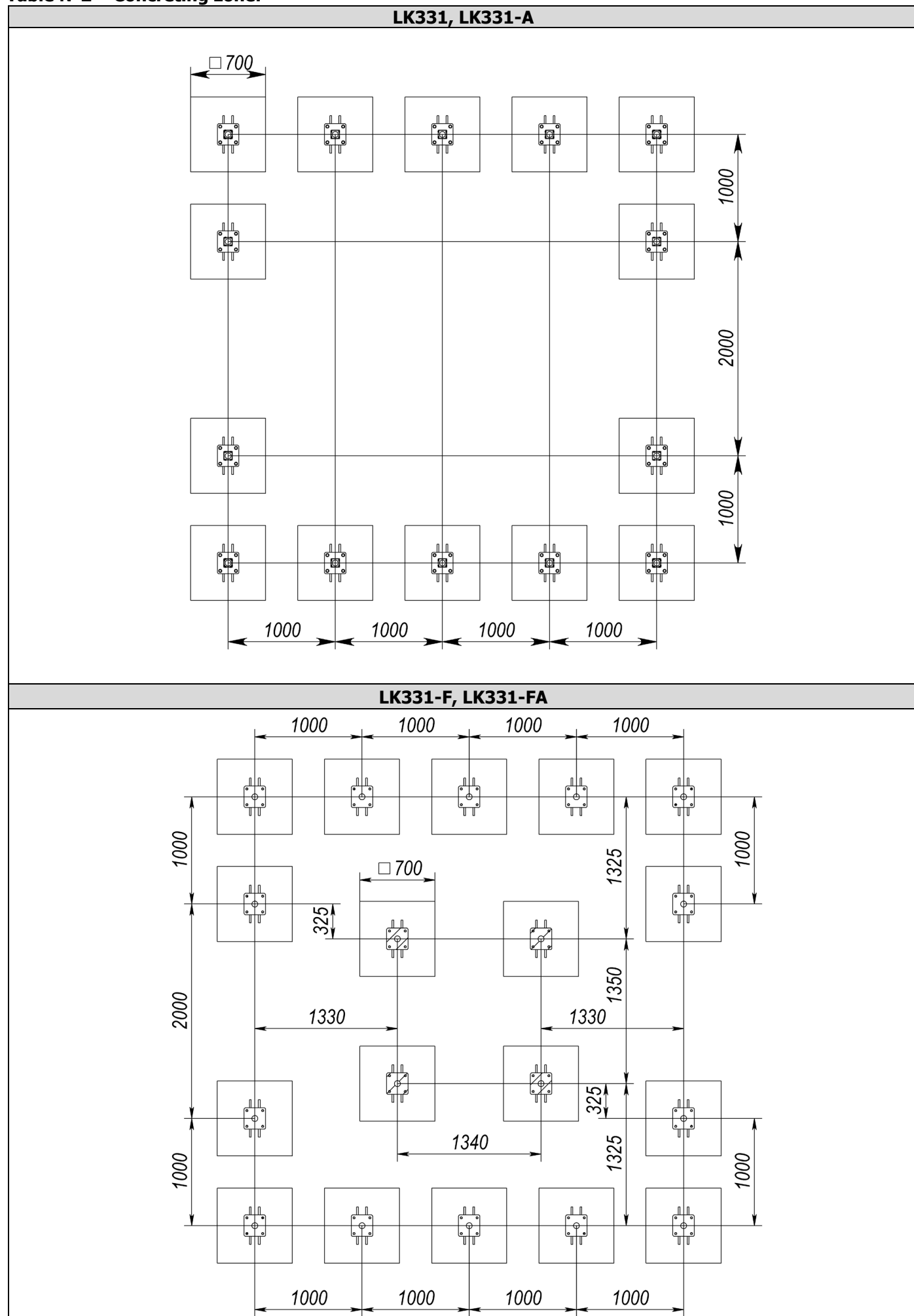
LK331, LK331-A



LK331-F, LK331-FA



Table №2 – Concreting zone:



Concreting scheme

Level of coverage/ground

Shock-absorbing coating

Rack

Foundation Concrete B15

Soil

0

S cov.

250

650

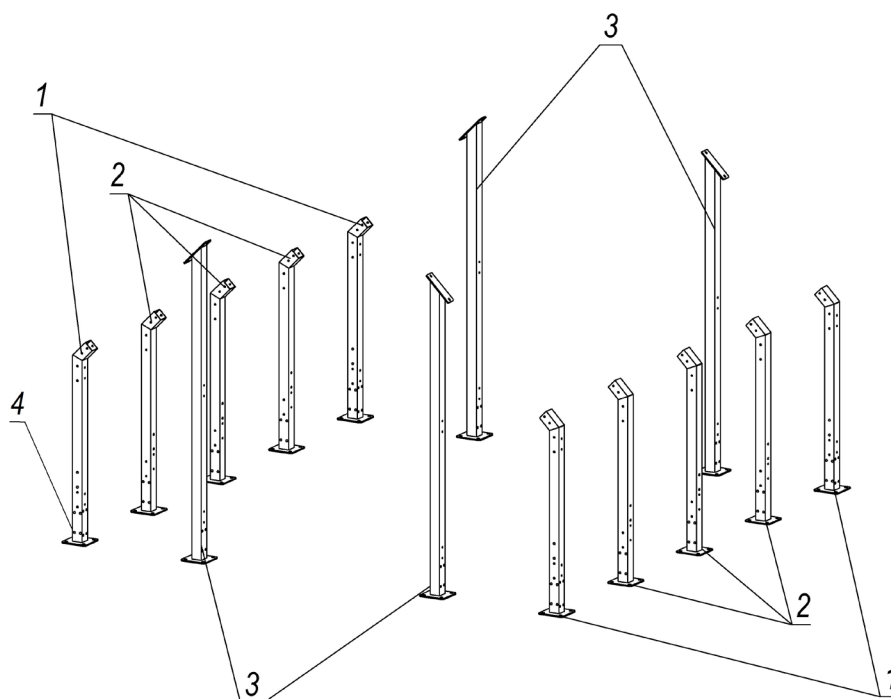
700

150

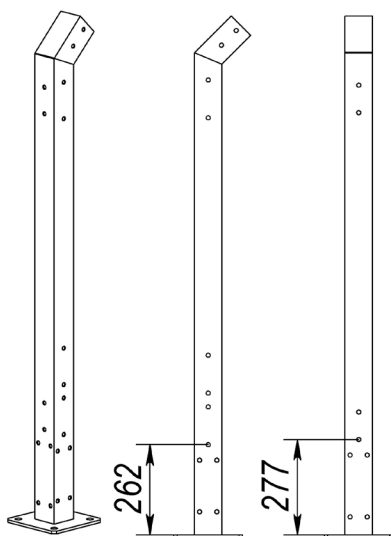
700

150

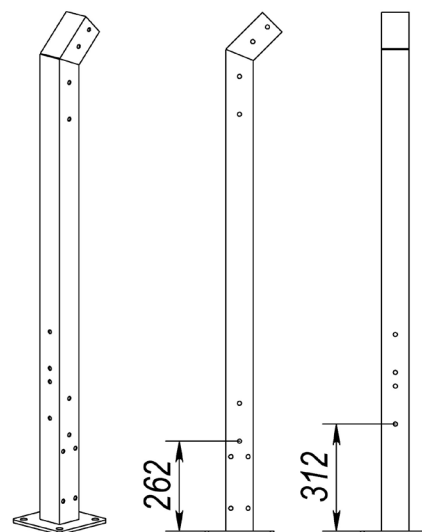
45°



Corner column №1

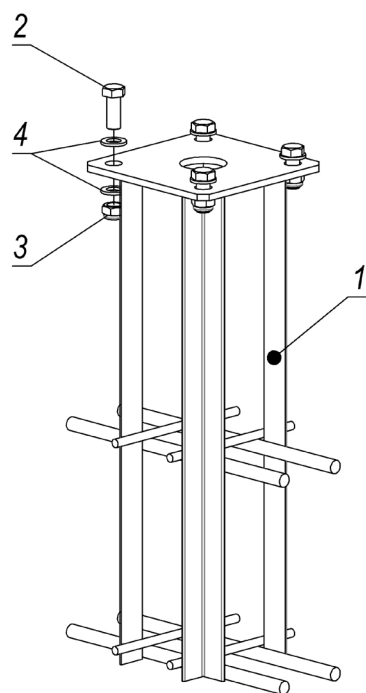


Corner column №2



<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
<i>1</i>	<i>Corner column</i>	<i>13</i>	<i>4</i>
<i>2</i>	<i>Central column</i>	<i>13</i>	<i>6</i>
<i>3</i>	<i>Frontal column</i>	<i>20</i>	<i>4</i>

Picture 1 – Column layout

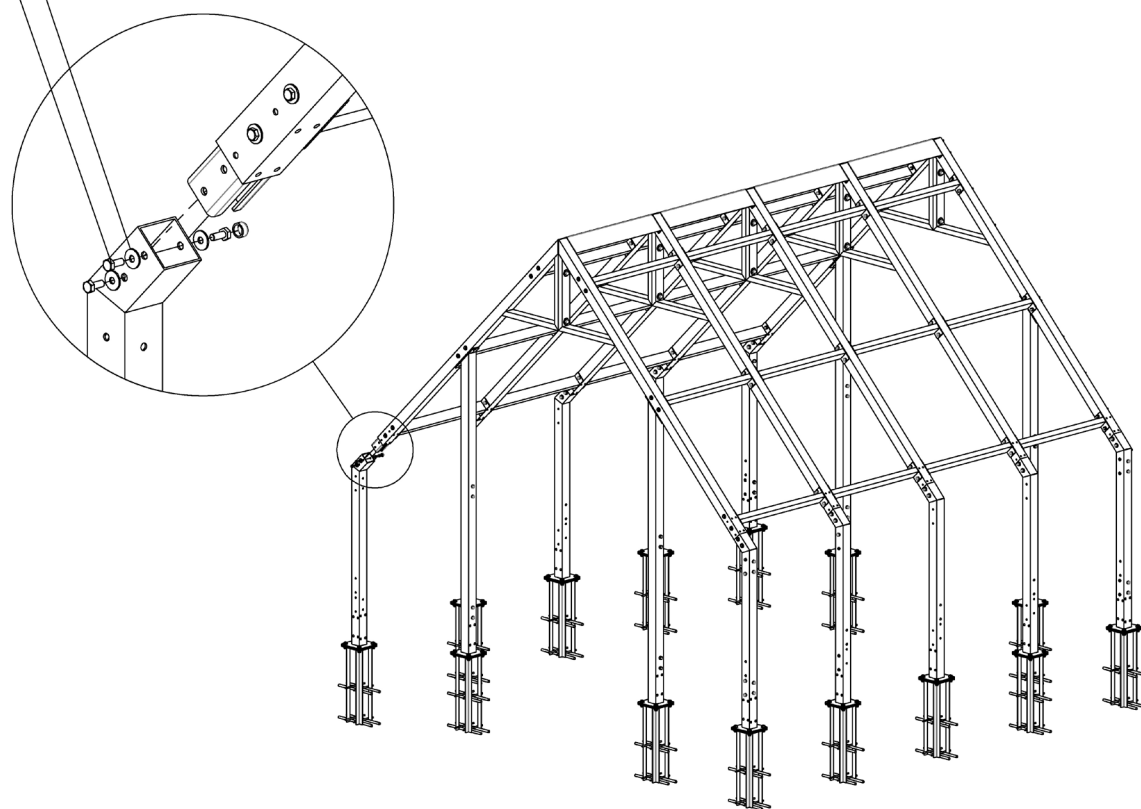


Pos.	Name	Weight, kg	Q-ty
1	Embedded element 600 mm	9	1
2	Bolt M16*40 DIN 933 (full thread)		4
3	Nut M16 DIN 985 (lock nut)		4
4	Washer 16 DIN 125 (flat)		8

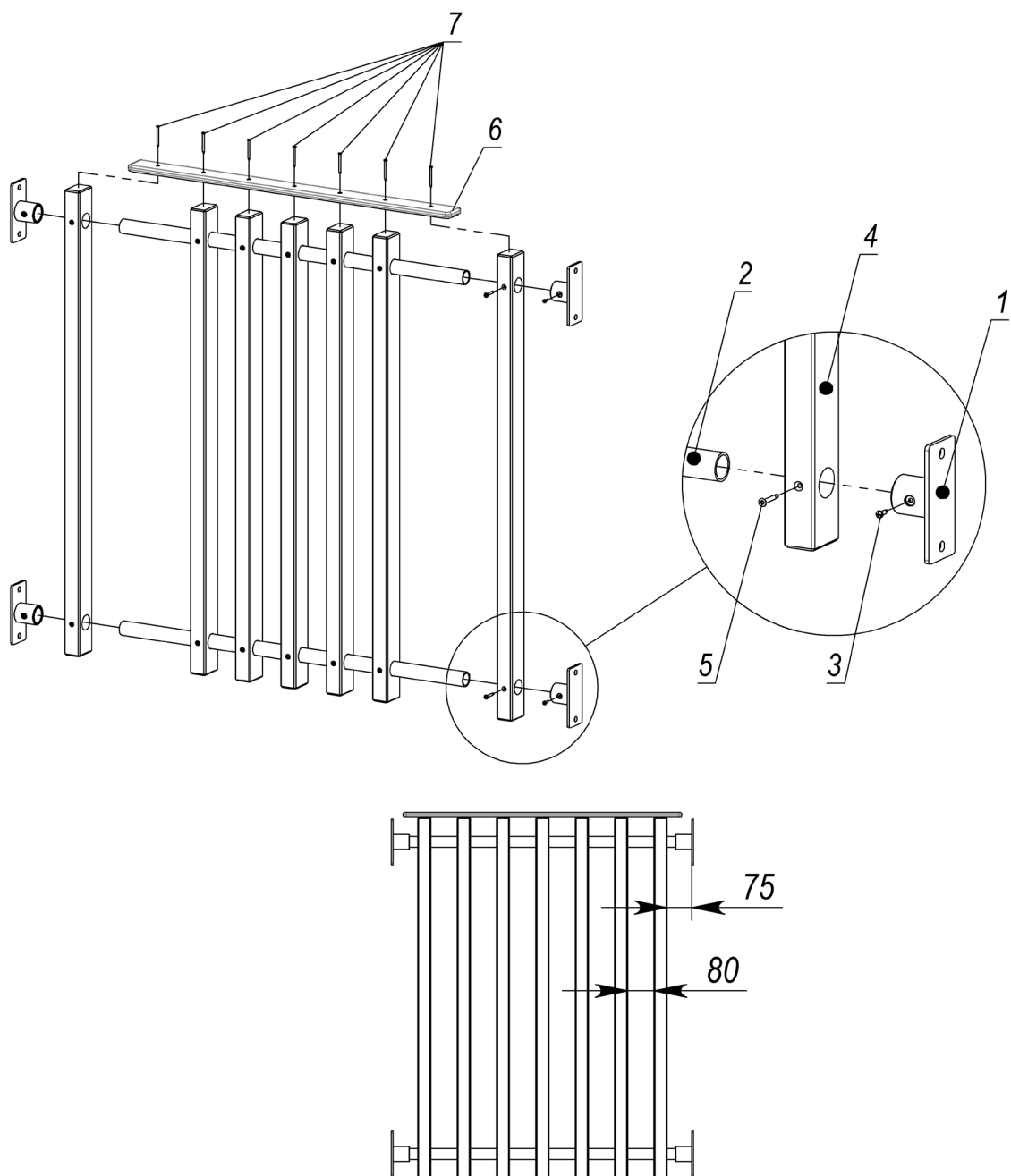
Picture 2 – Embedded element assembly scheme

Bolt M10*25.A2-70, DIN 933

Washer 10-A2 DIN 9021

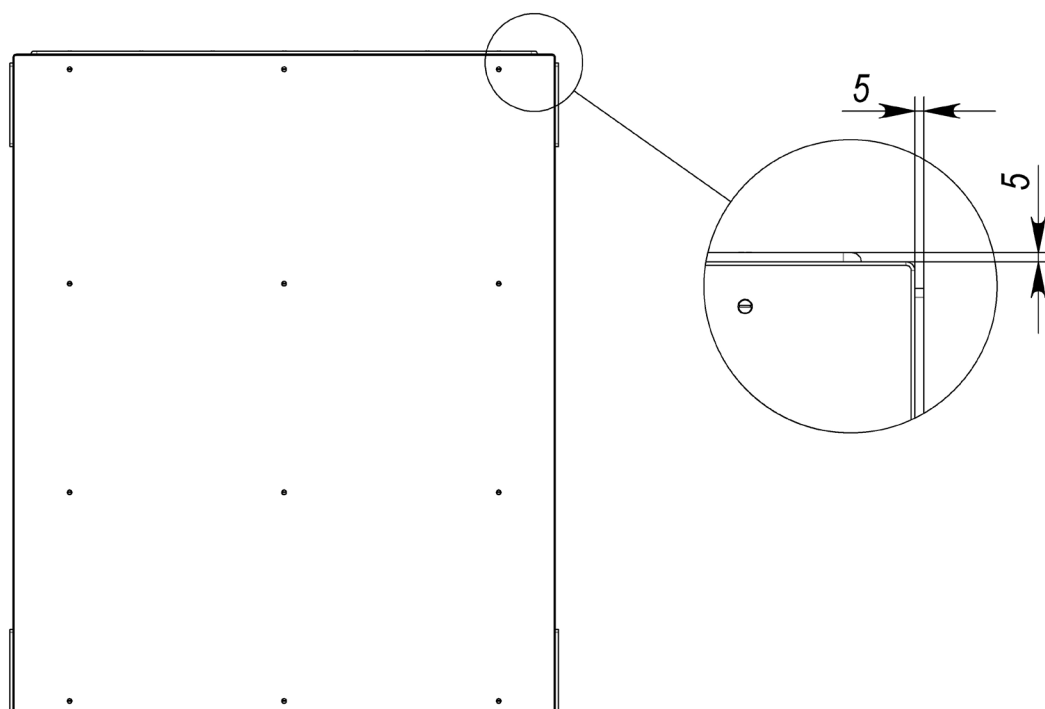
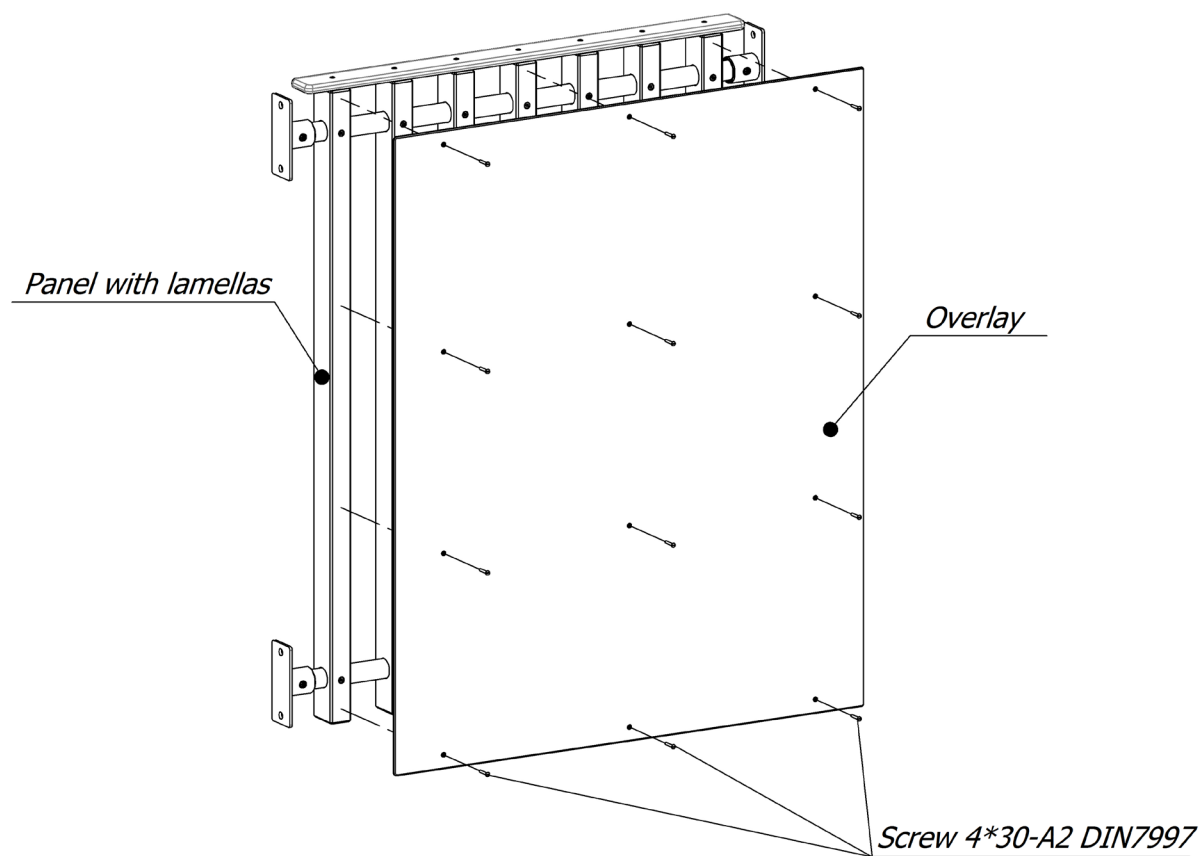


Picture 3 – Scheme of roof connection with columns

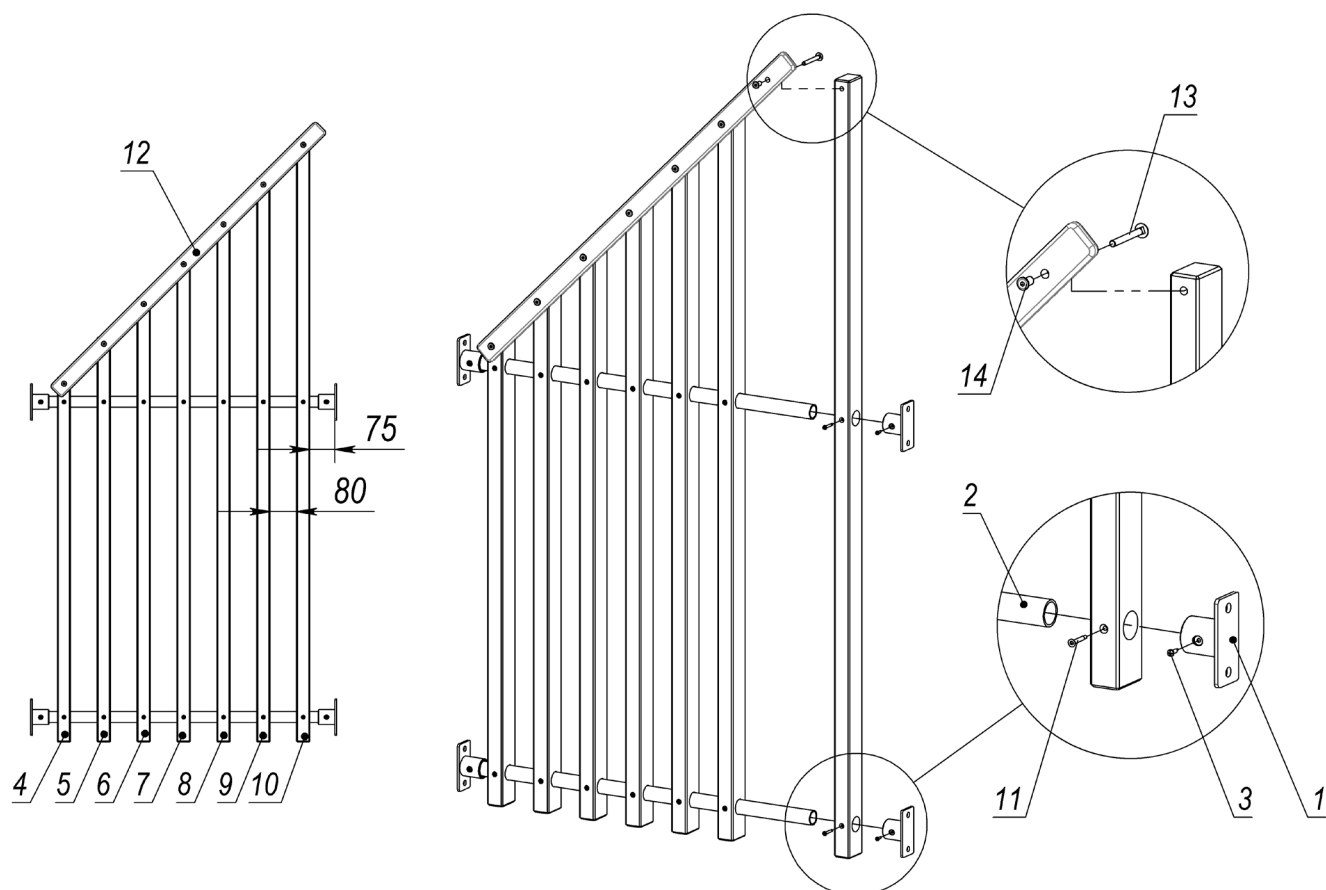


Pos.	Name	Weight, kg	Q-ty
1	Flange-adaptor		4
2	Crossbar 905 mm	2	2
3	Screw 4.2*16-C1, DIN 7504 N (HKP with a drill) stainless		4
4	Lamella 60*40*1100 mm (without a hole F 10 mm)	2	7
5	Screw 4.8*32.C1 DIN 7504 P stainless		14
6	Socket bar		1
7	Screw 4*50-A2, DIN 7997 (hidden-universal, PZ) stainless		7

Picture 4 – Assembly scheme of the panels with lamellas

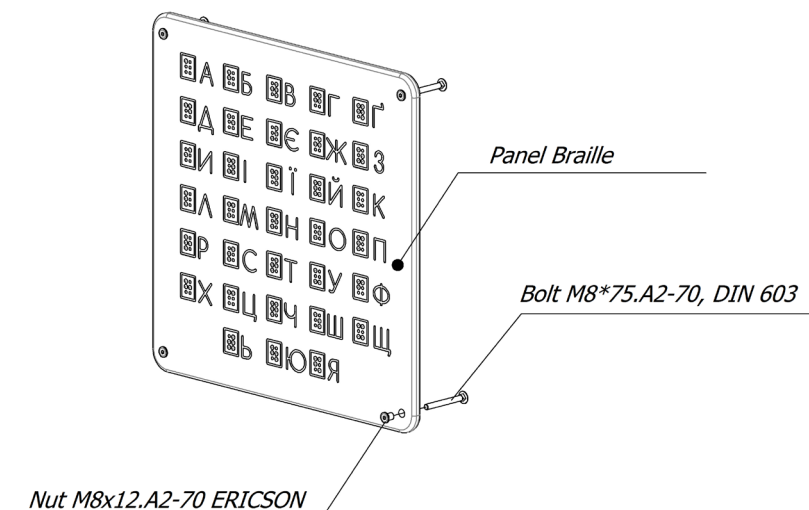
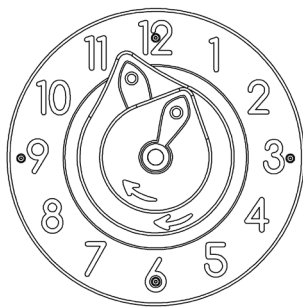
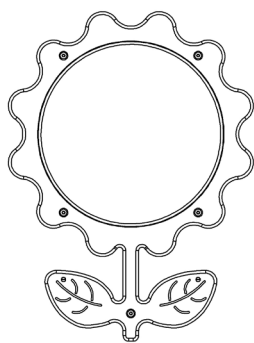


Picture 5 – Installation scheme of the overlay

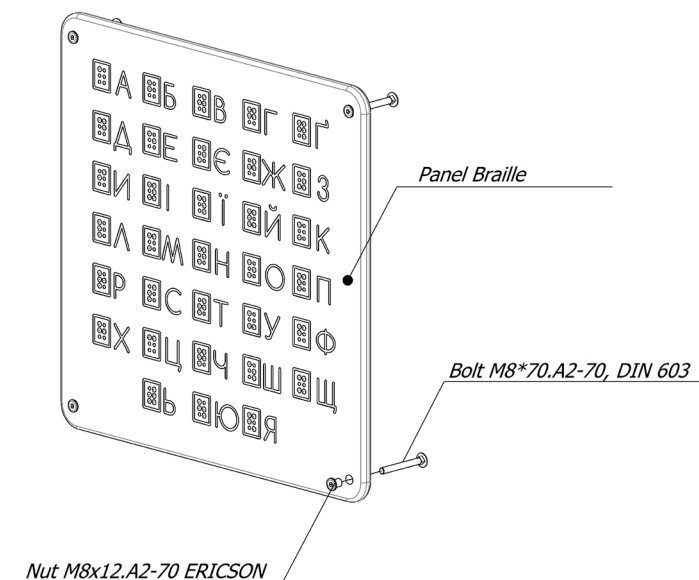


Pos.	Name	Weight, kg	Q-ty
1	Bracket 50*110 mm		4
2	Crossbar 905 mm	2	2
3	Screw 4.2*16-C1, DIN 7504 N (HKP with a drill) stainless		4
4	Lamella 60*40*1100 mm	2	1
5	Lamella 60*40*1220 mm	2	1
6	Lamella 60*40*1340 mm	2	1
7	Lamella 60*40*1460 mm	2	1
8	Lamella 60*40*1580 mm	2	1
9	Lamella 60*40*1700 mm	2	1
10	Lamella 60*40*1820 mm	3	1
11	Screw 4.8*32.C1 DIN 7504 P stainless		14
12	Diagonal		1
13	Bolt M8*70.A2-70, DIN 603 (furniture) stainless		7
14	Nut M8x16.A2-70 ERICSON (flat) stainless		7

Picture 6 – Assembly scheme of frontal panel

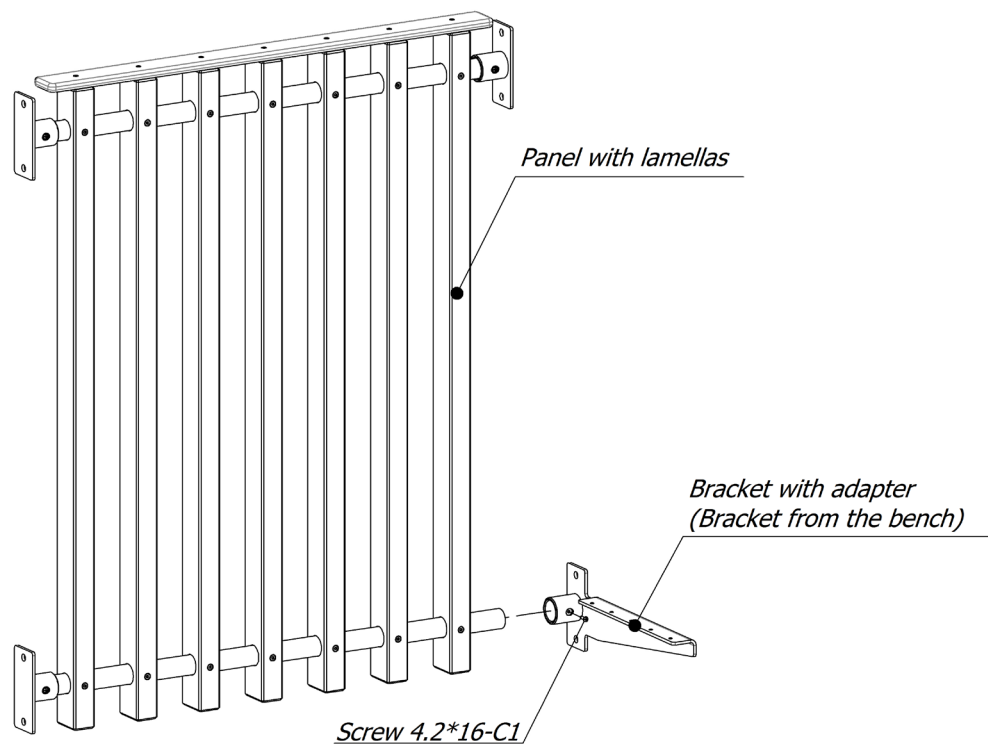


Panel for fastening to lamellas with overlay (for LK331-A, LK331-FA)

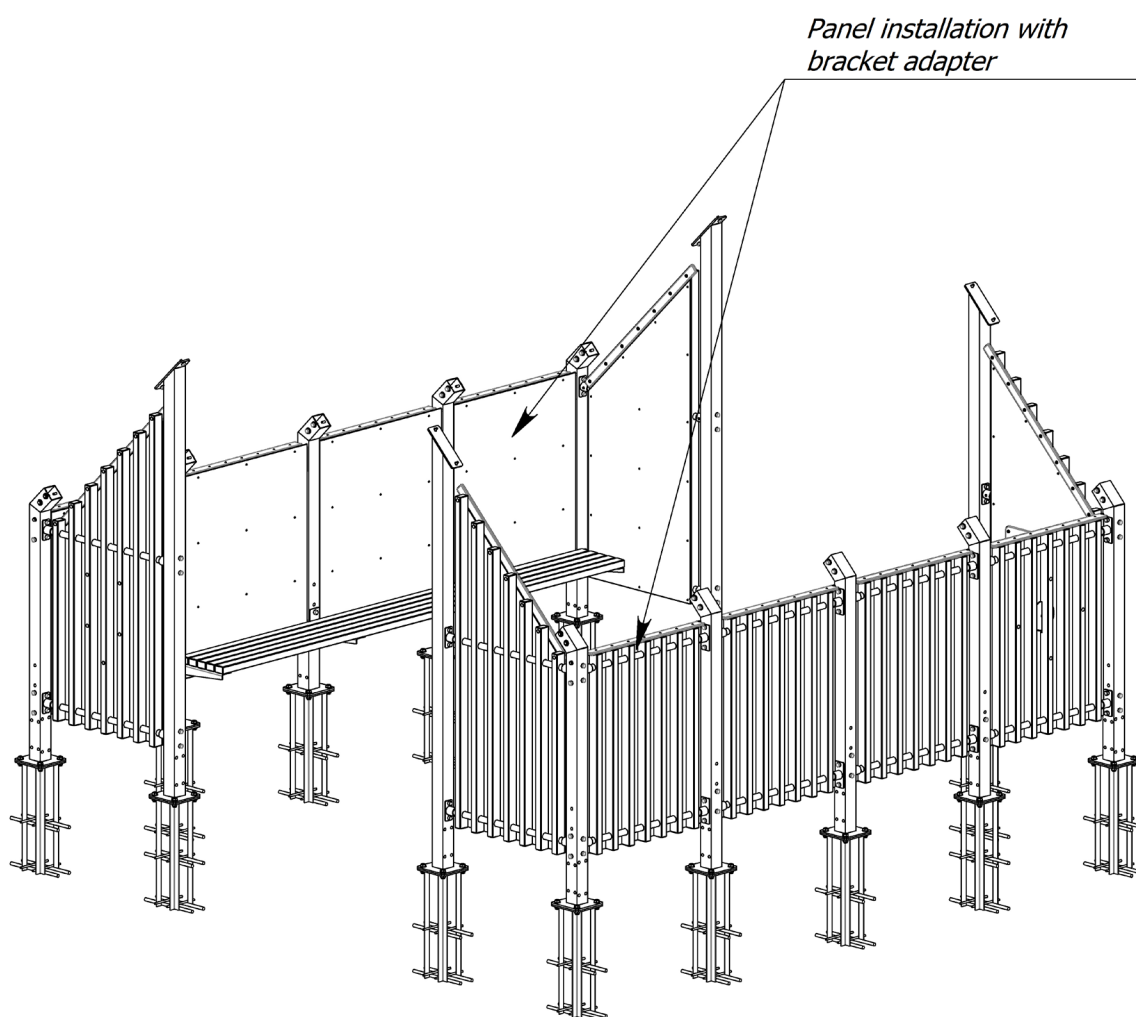


Panel for fixing to the lamellas (для LK331, LK331-F)

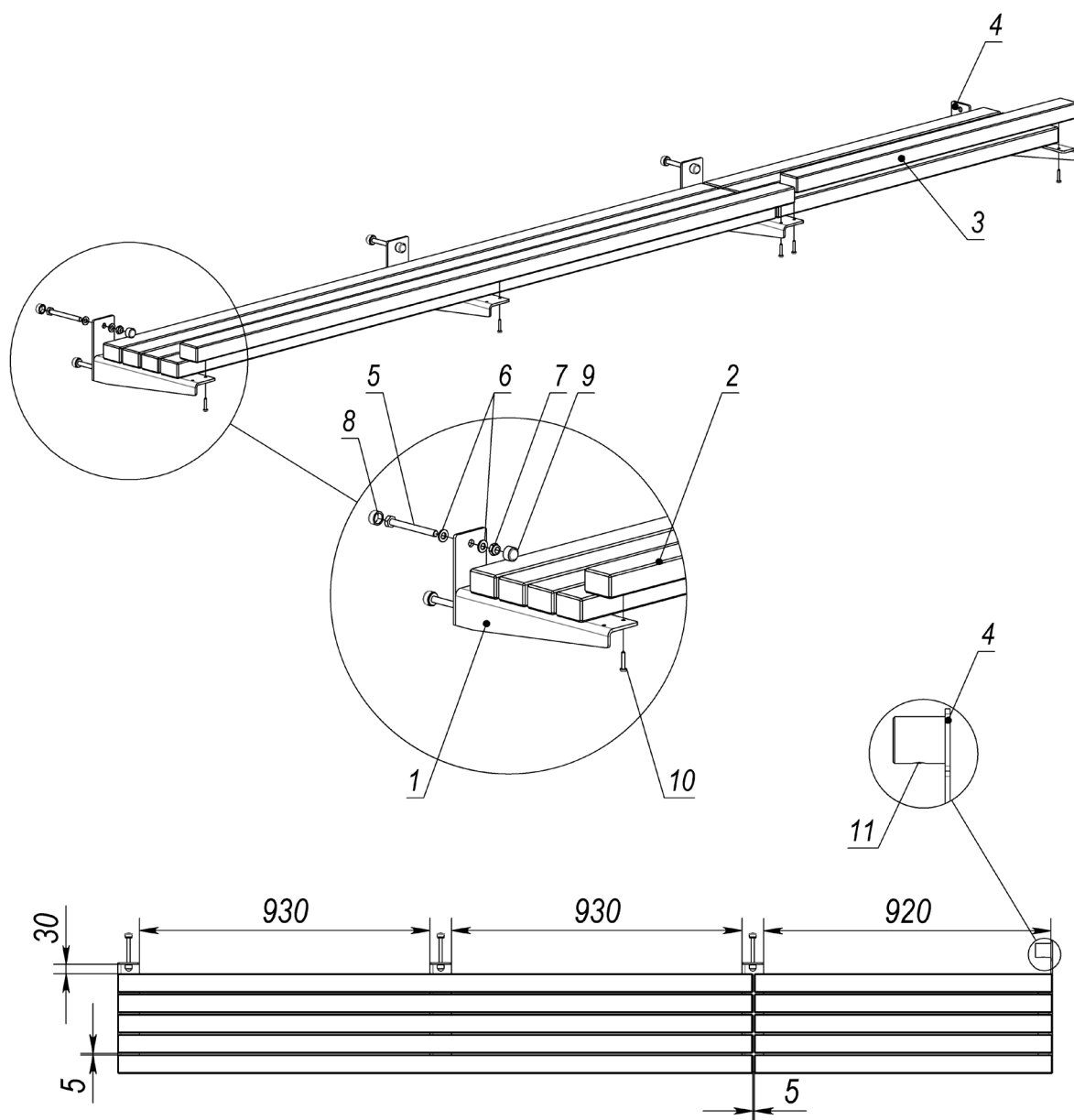
Picture 7 – Panel fastening scheme



Picture 8 – Assembly scheme of the panel with bracket

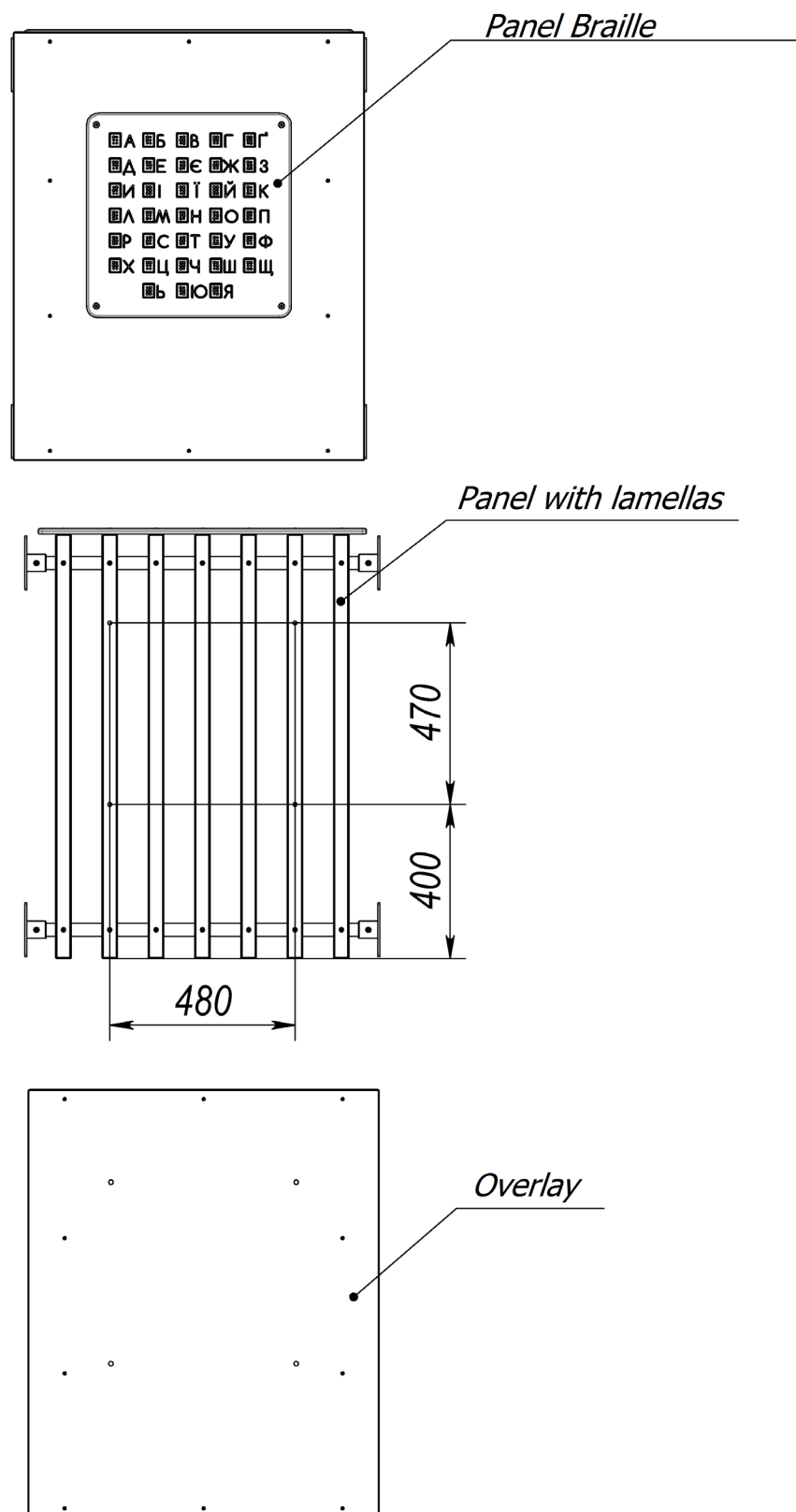


Picture 9 – Panel layout with bracket

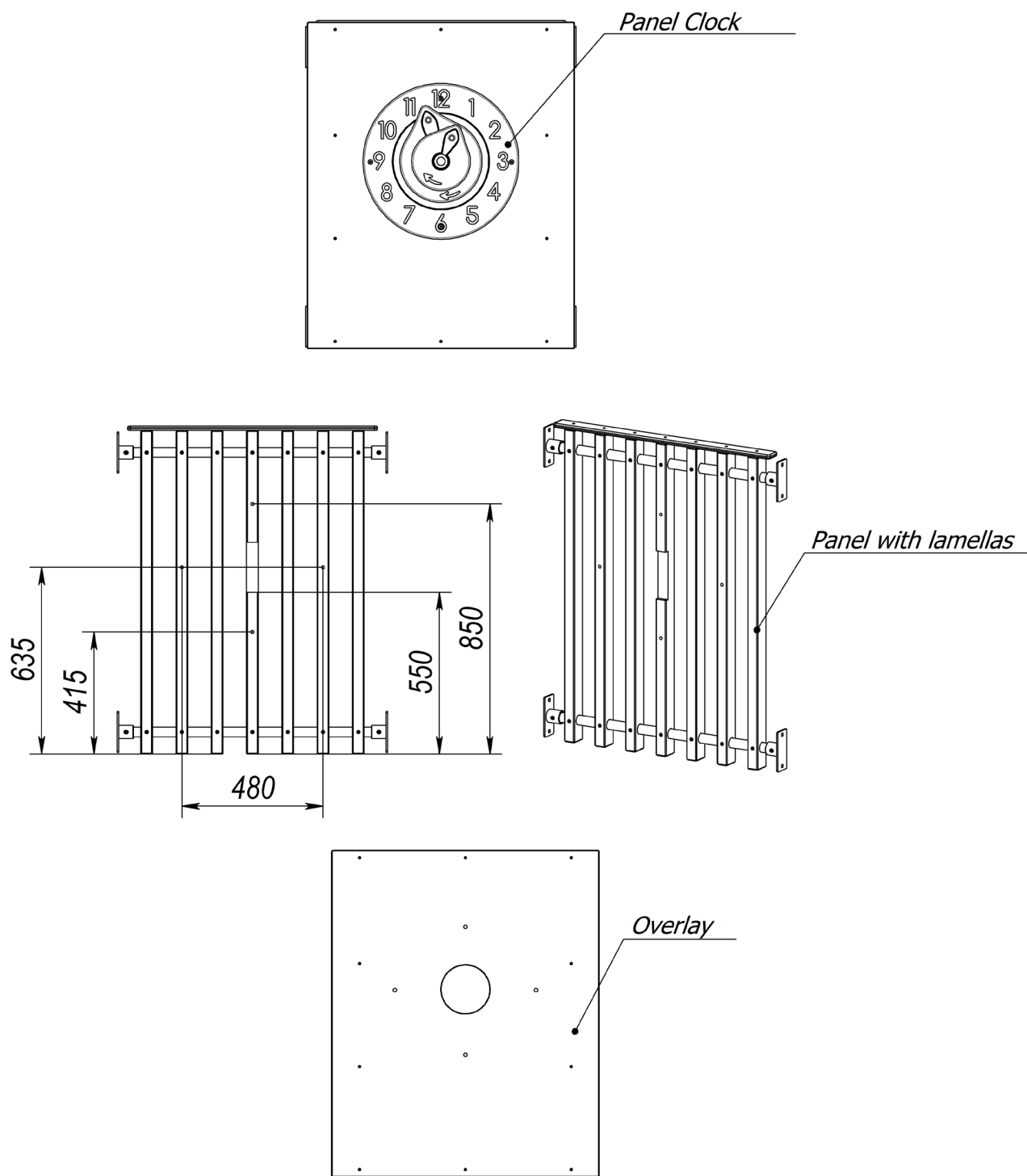


Pos.	Name	Weight, kg	Q-ty
1	Bracket	2	3
2	Lamella 60*40*2035 mm	3	5
3	Lamella 60*40*955 mm	1	5
4	Bracket with adapter	2	1
5	Bolt M10*100.A2-70, DIN 933 (full thread) stainless		6
6	Washer 10-A2, DIN 125 (flat) stainless		12
7	Nut M10 A2-70 DIN 985 (lock nut) stainless		6
8	Cap S17		6
9	Cap S17		6
10	Screw 5*30-A2 DIN 7996 (HKP – universal, PZ) stainless		25
11	Screw 4.2*16-C1, DIN 7504 N (HKP with a drill) stainless		1

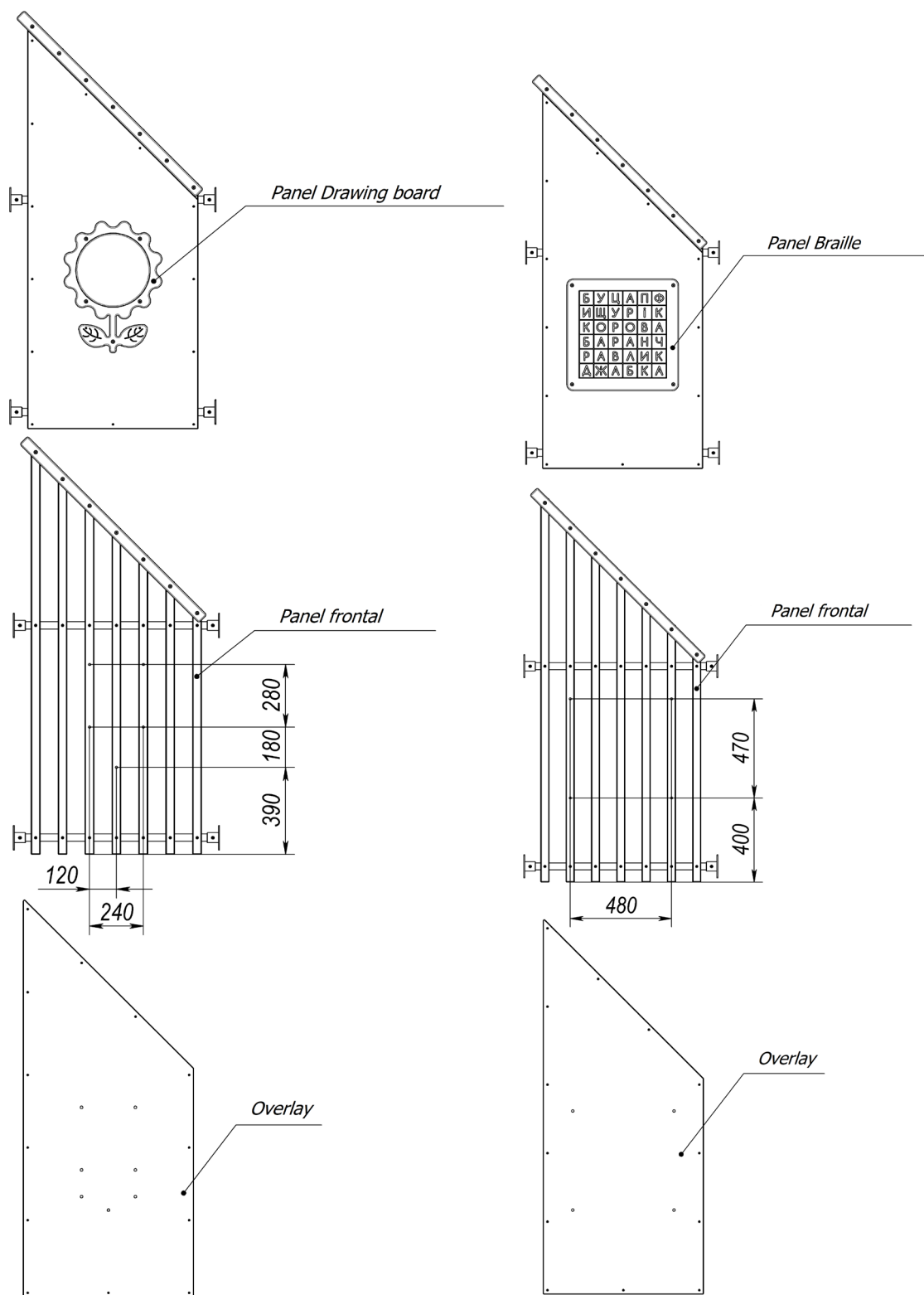
Picture 10 – Bench assembly scheme



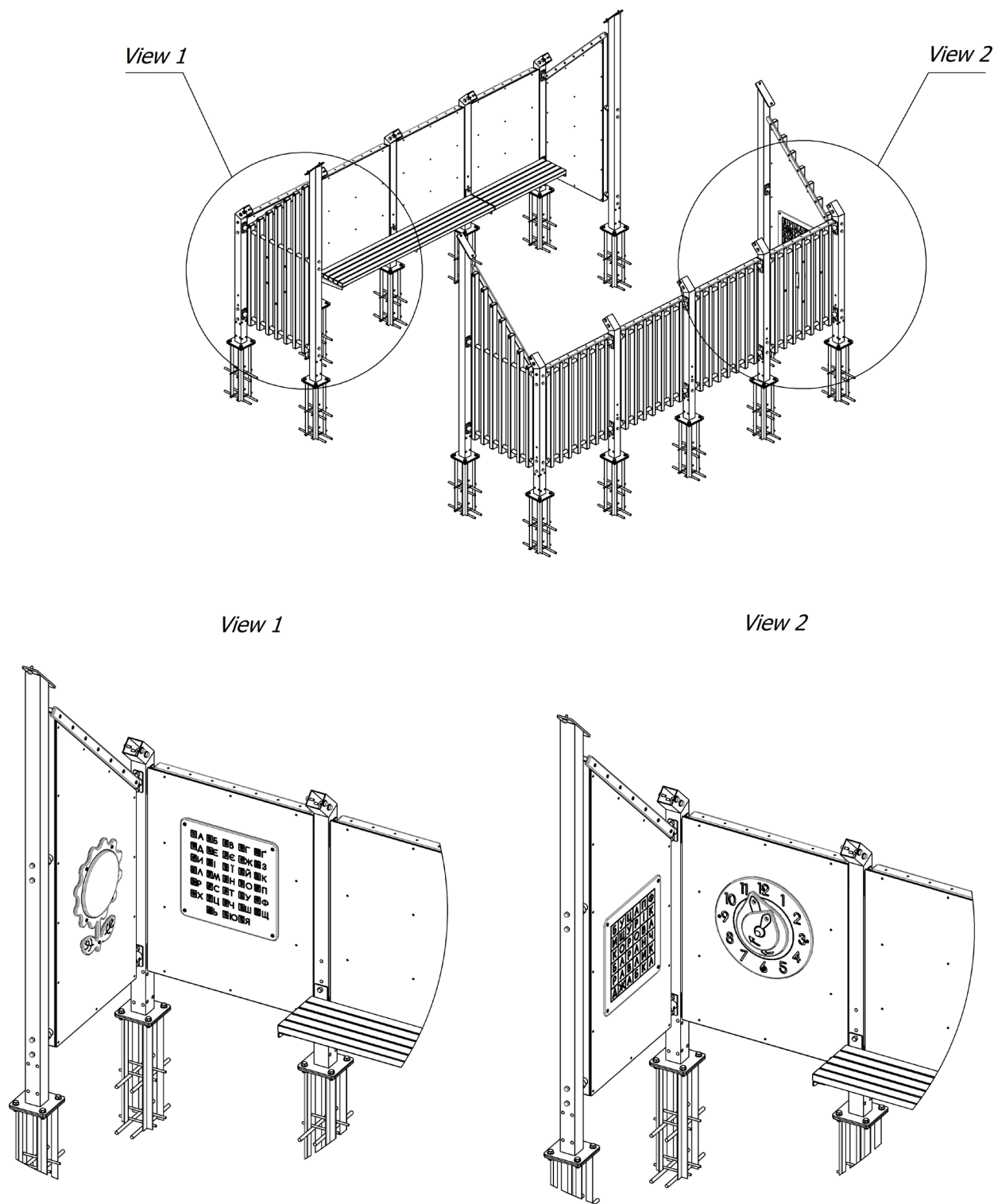
Picture 11 – Panel with lamellas for Braille fastening



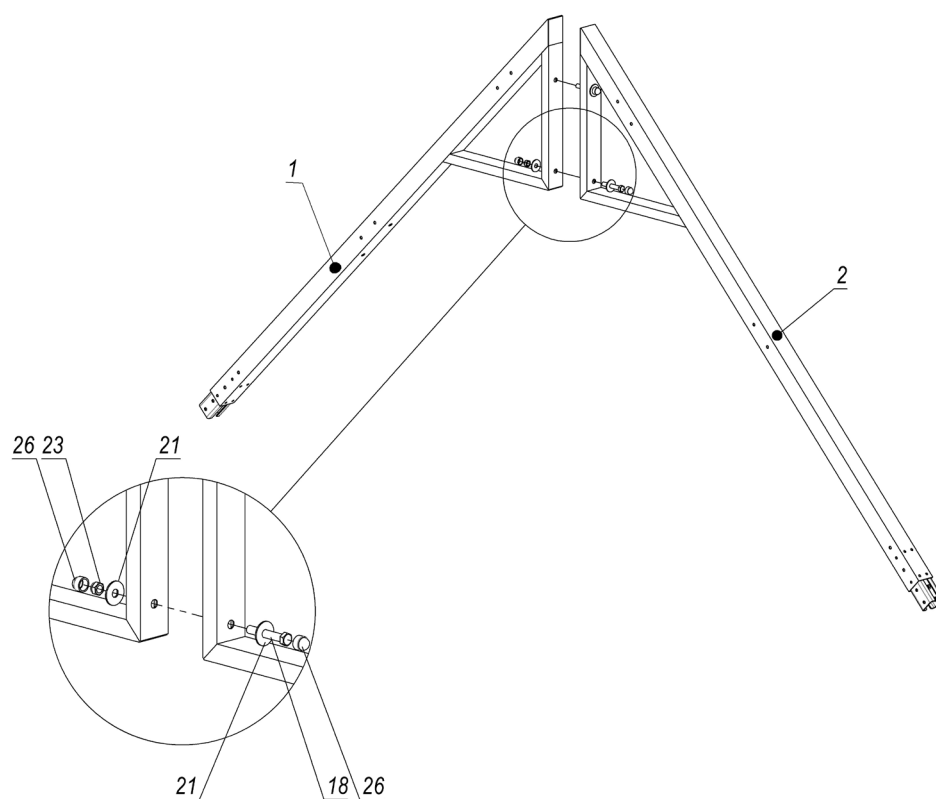
Picture 12 – Panel with lamellas for the clock fastening



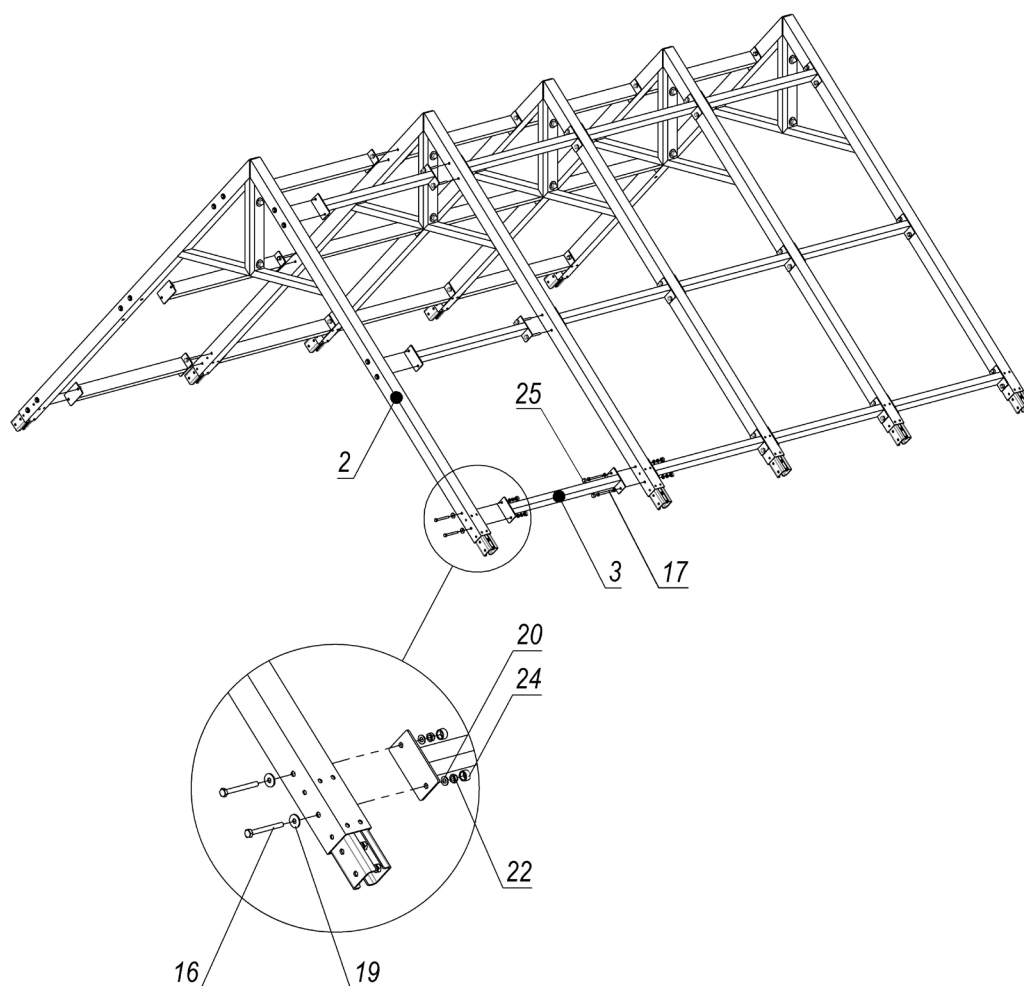
Picture 13 – Panel with lamellas frontal



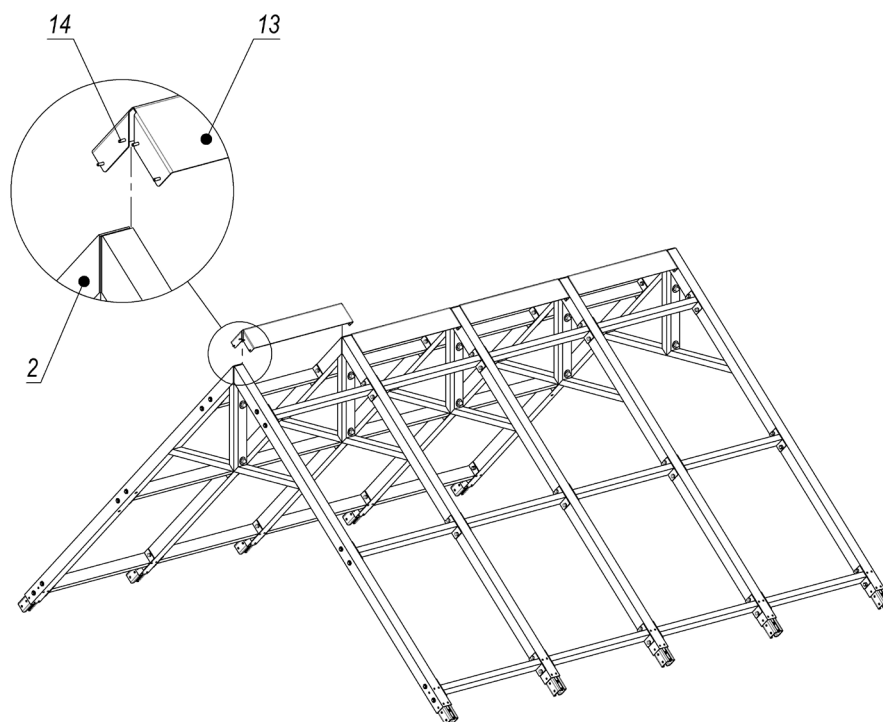
Picture 14 – Layout of panels



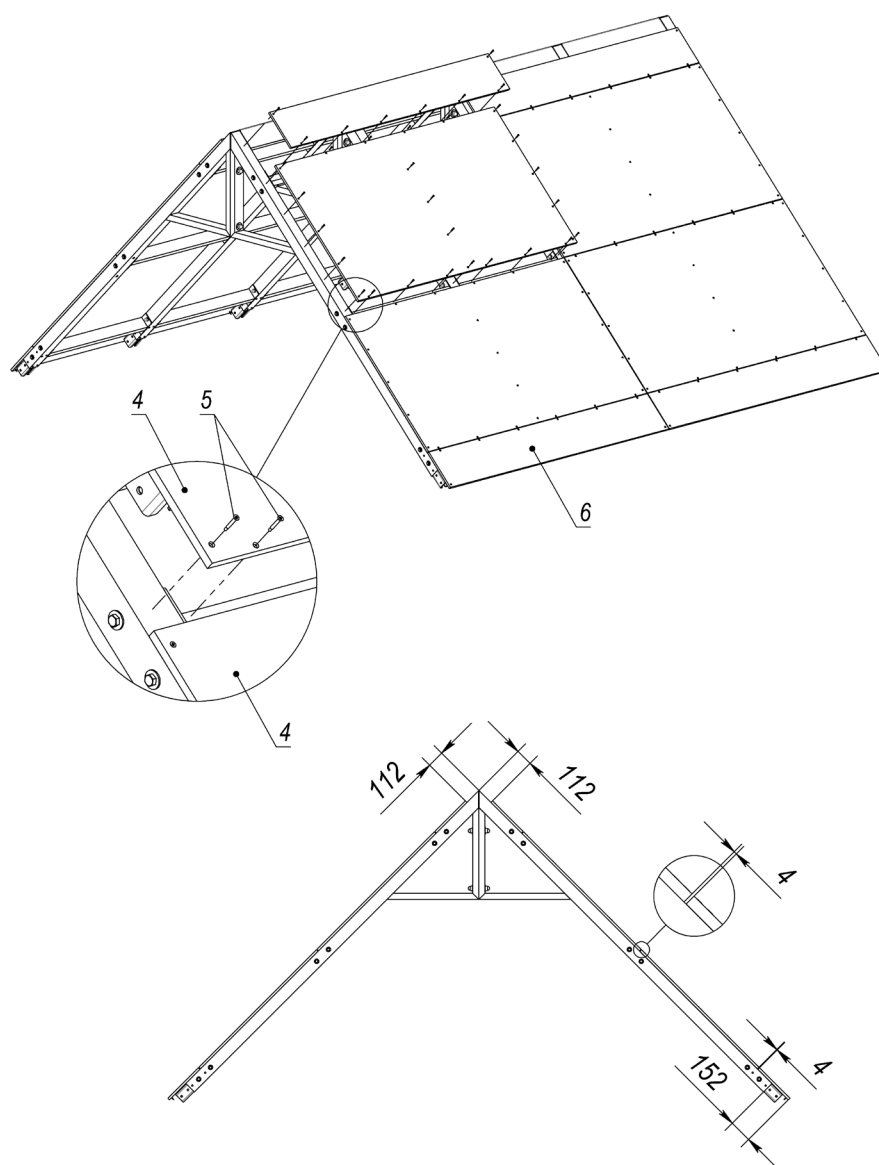
Picture 15 – Rafters connection scheme



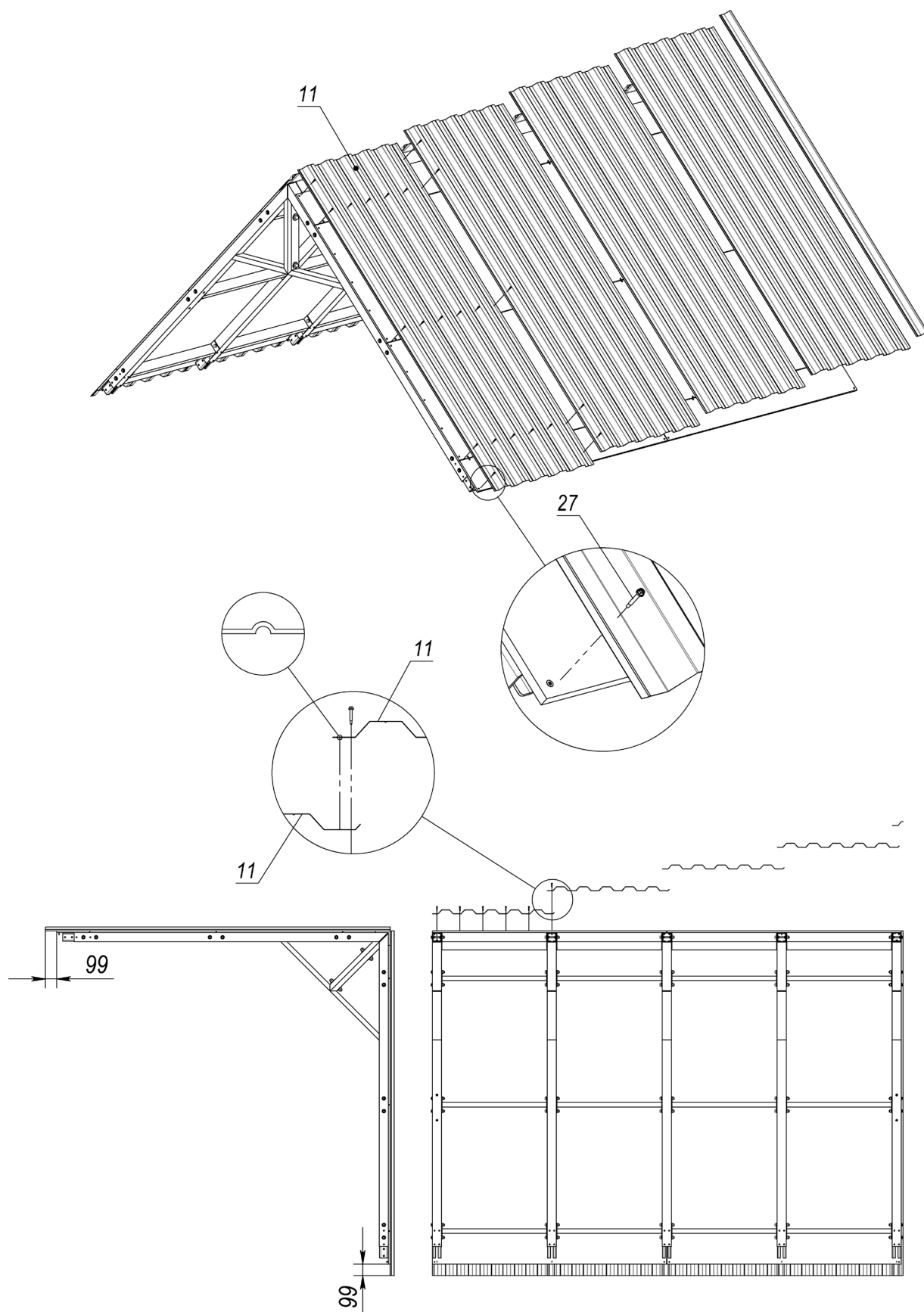
Picture 16 – Installing of the runs



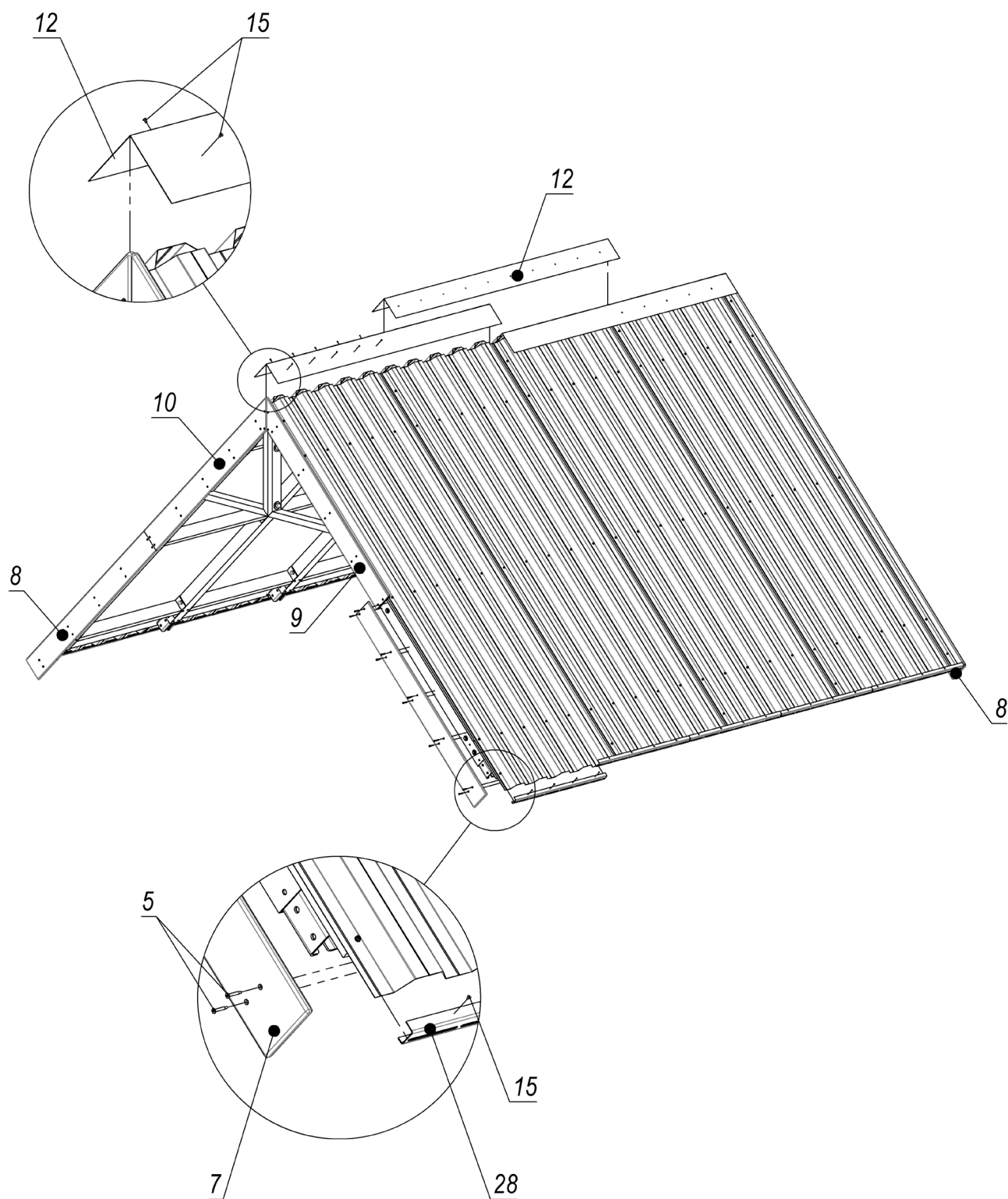
Picture 17 – Fastening of angles



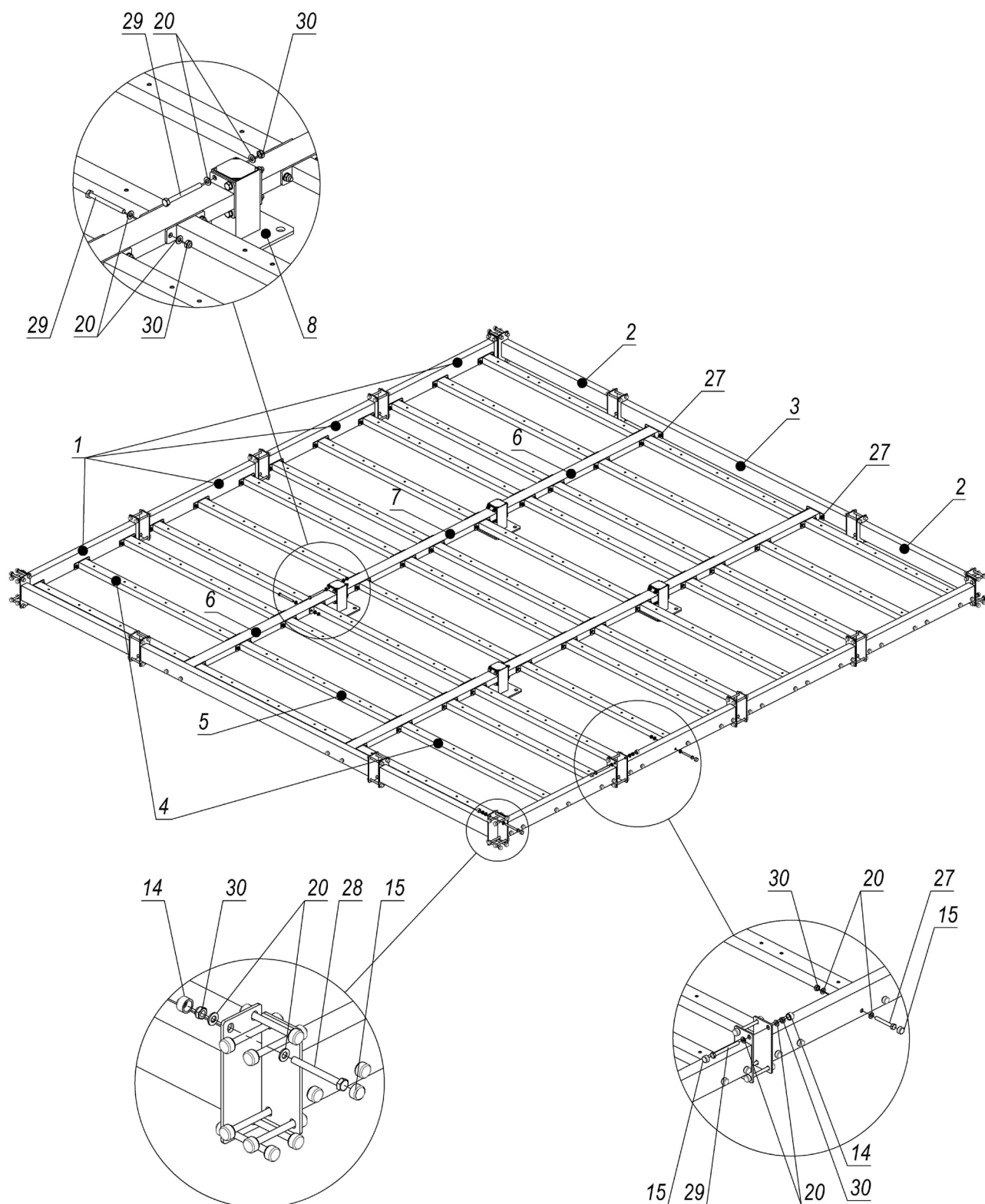
Picture 18 – Installation of roof lining



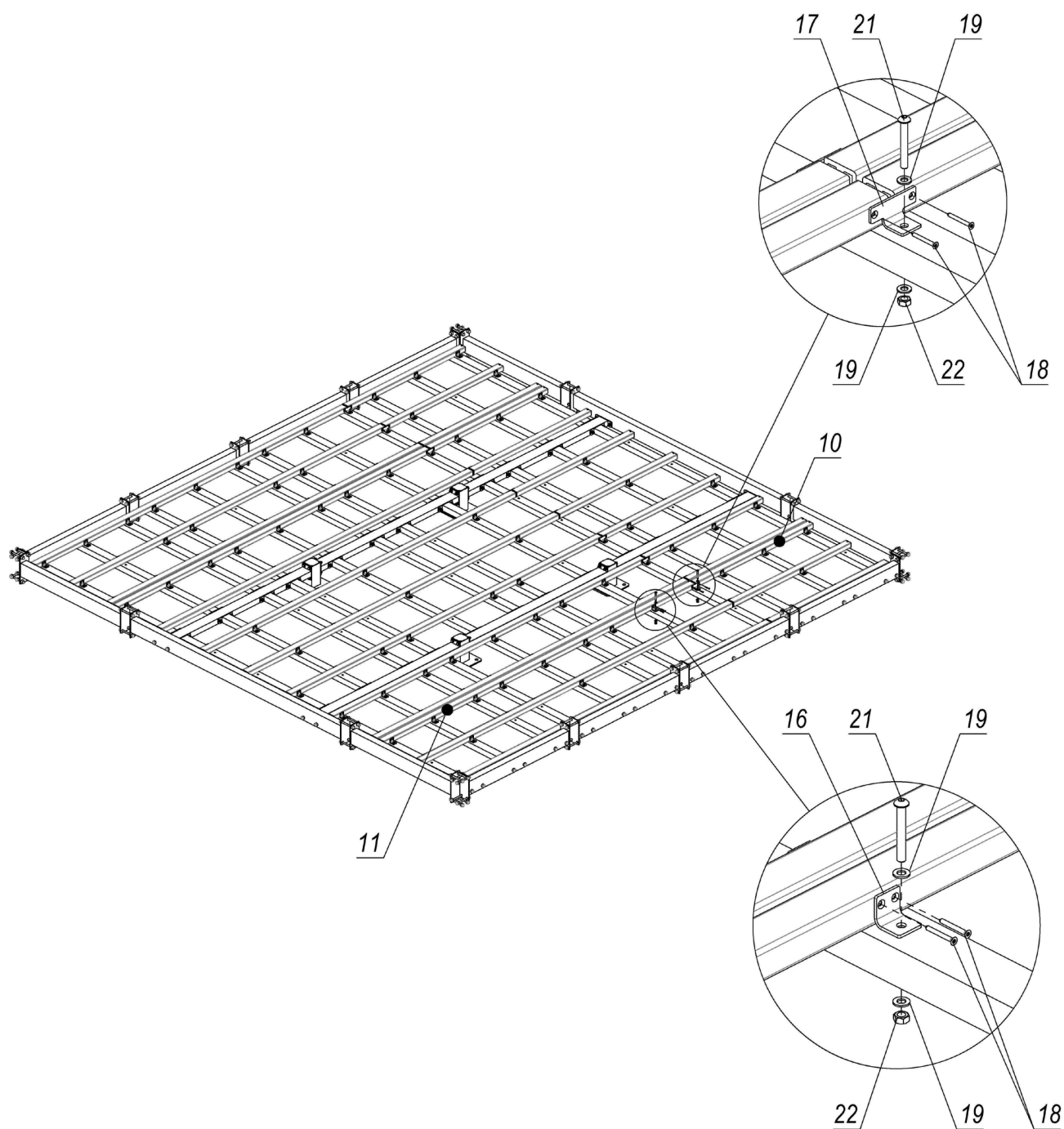
Picture 19 – Fastening profile sheets



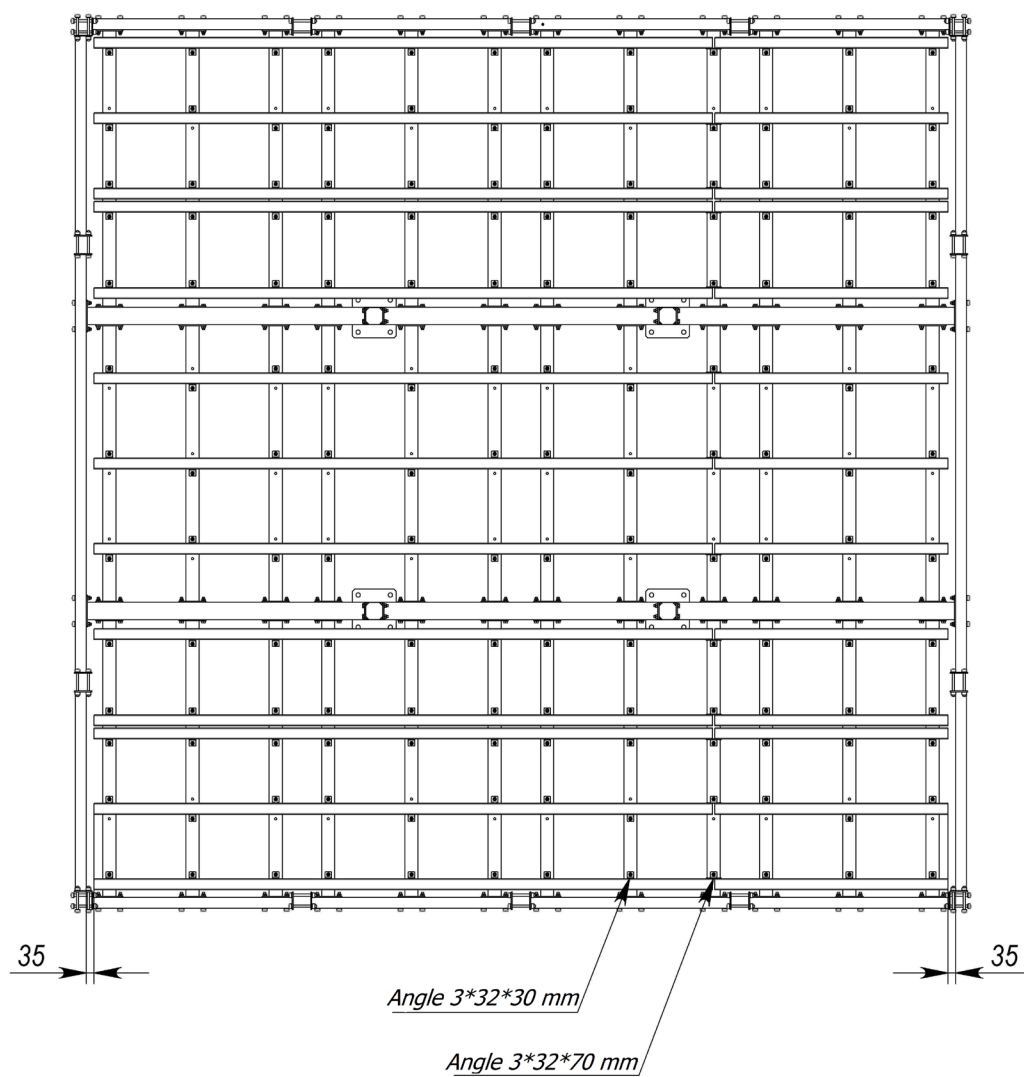
Picture 20 – Installing the ridge



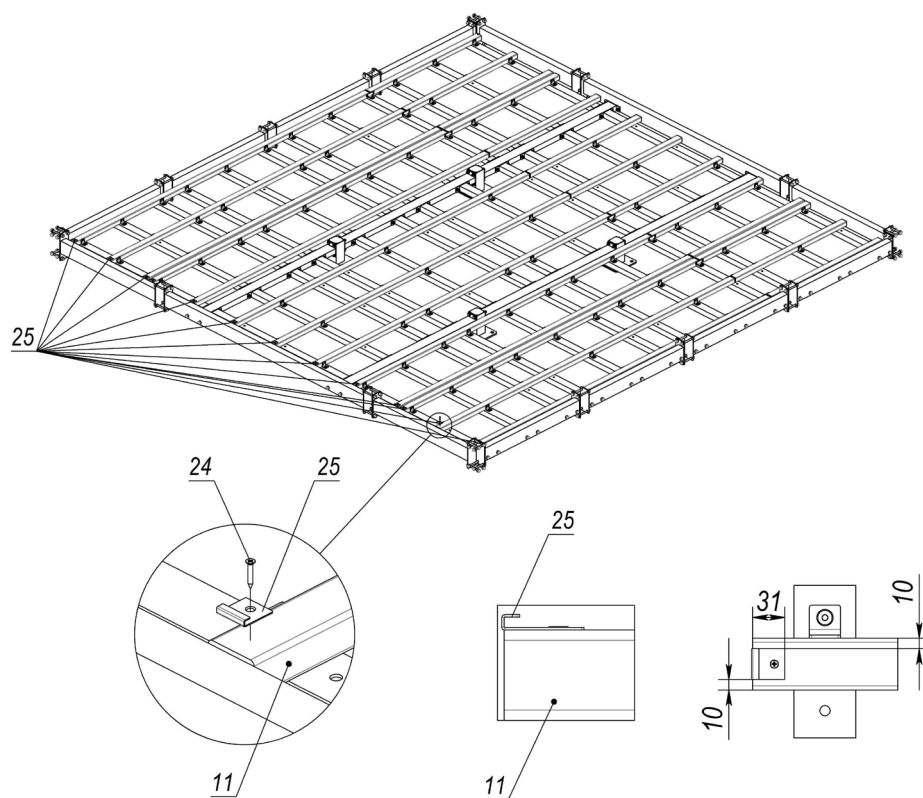
Picture 21 – Assembly of the floor frame



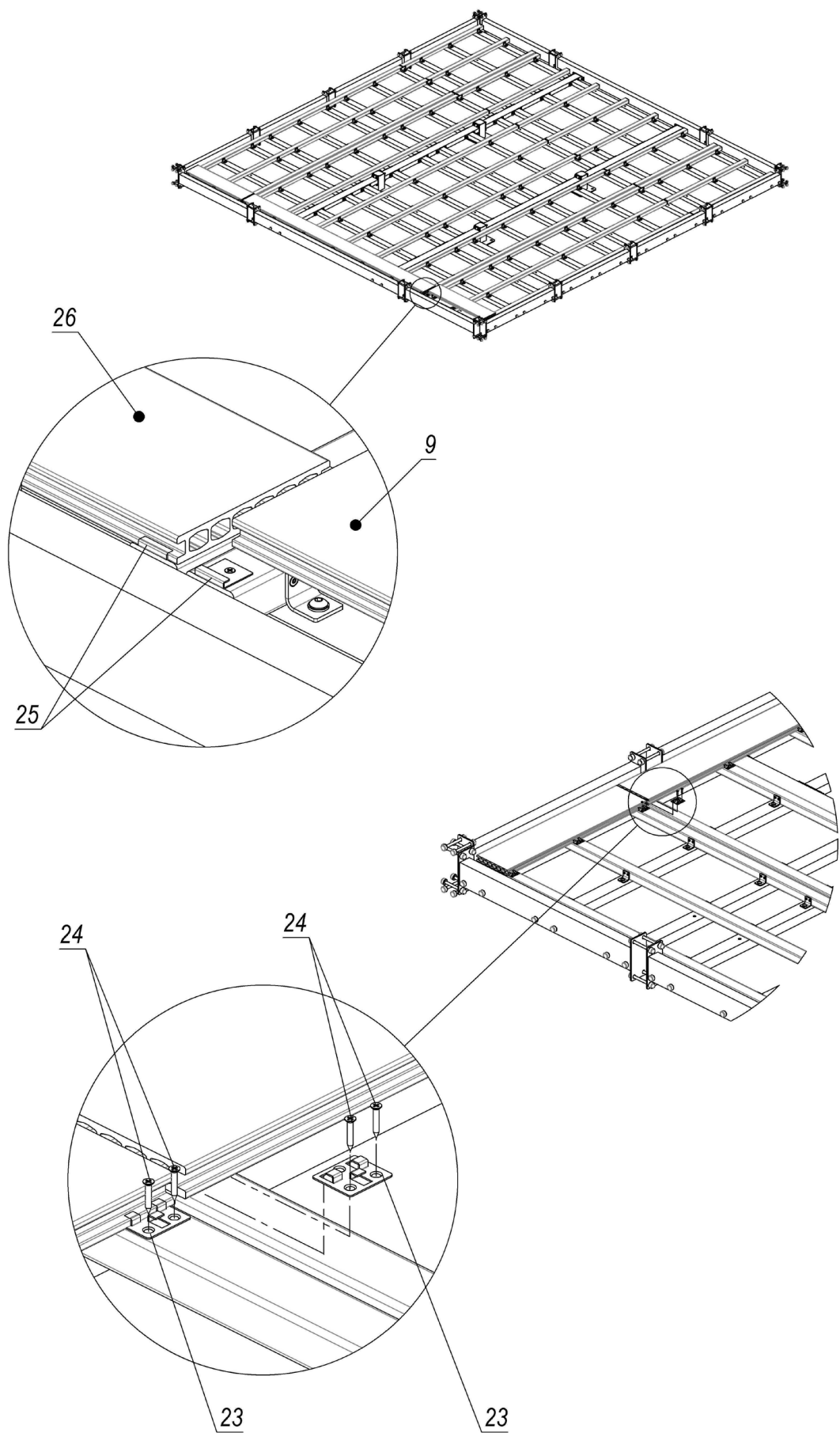
Picture 22 – Scheme of installation of lags



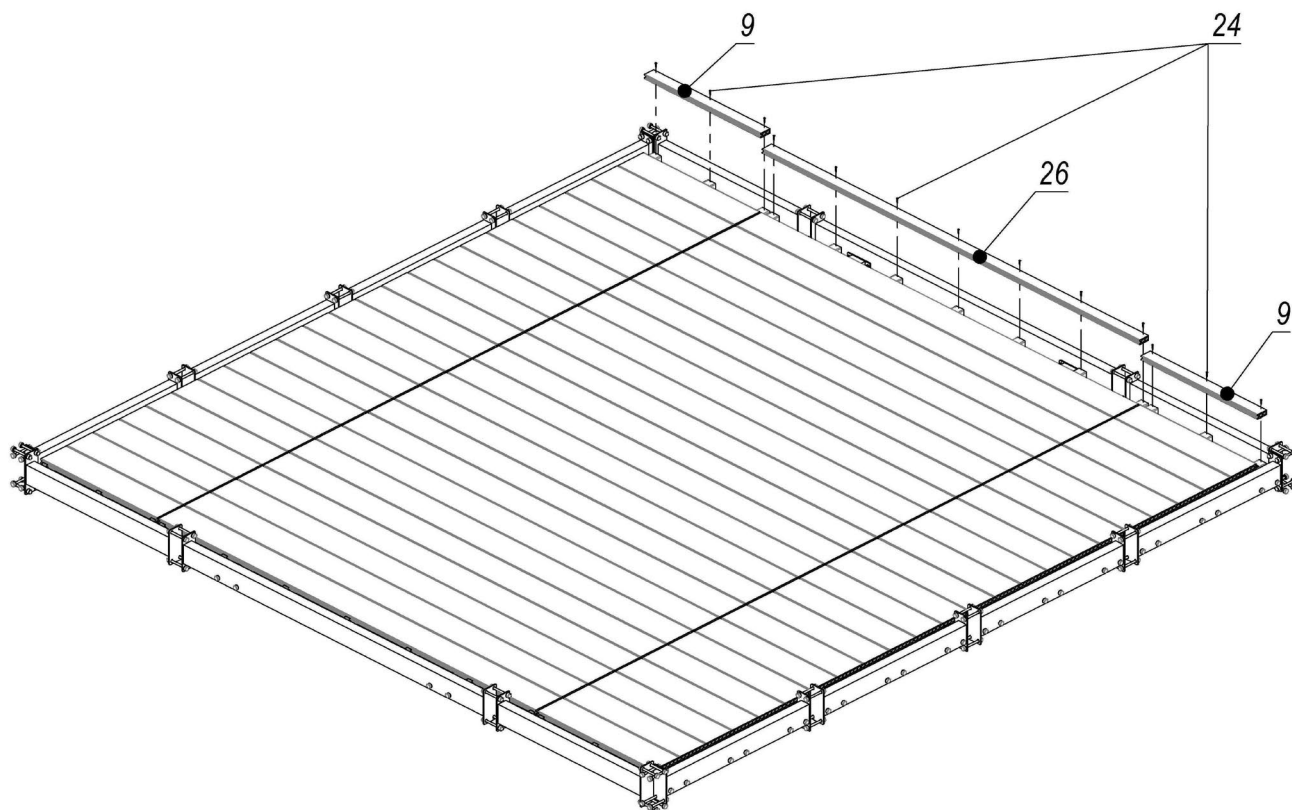
Picture 23 – Layout of the corners



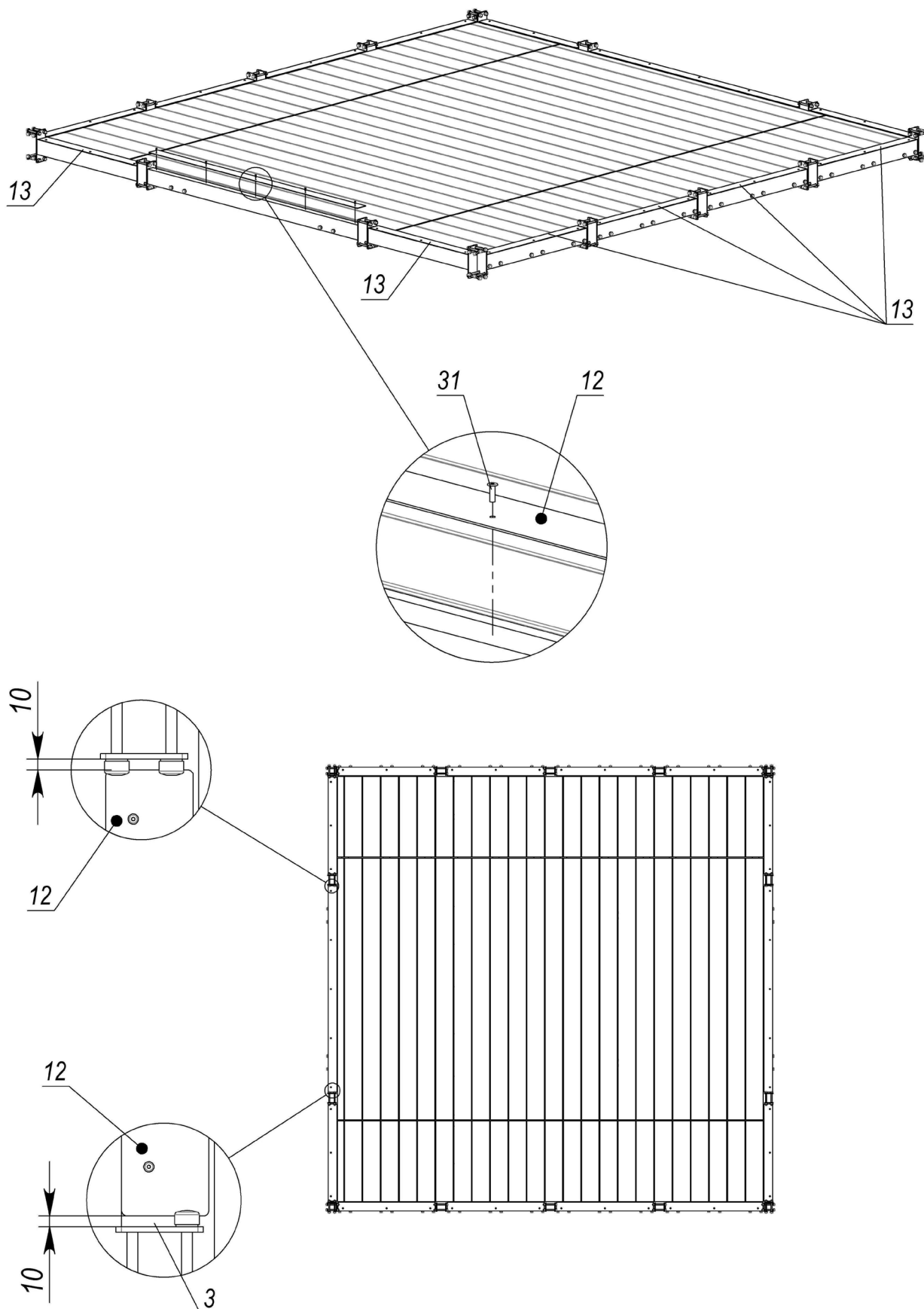
Picture 24 – Installation scheme of starter clips



Picture25 – Scheme of fastening the board



Picture 26 – Installing and fastening the last board (Cut the board at the assembly place)

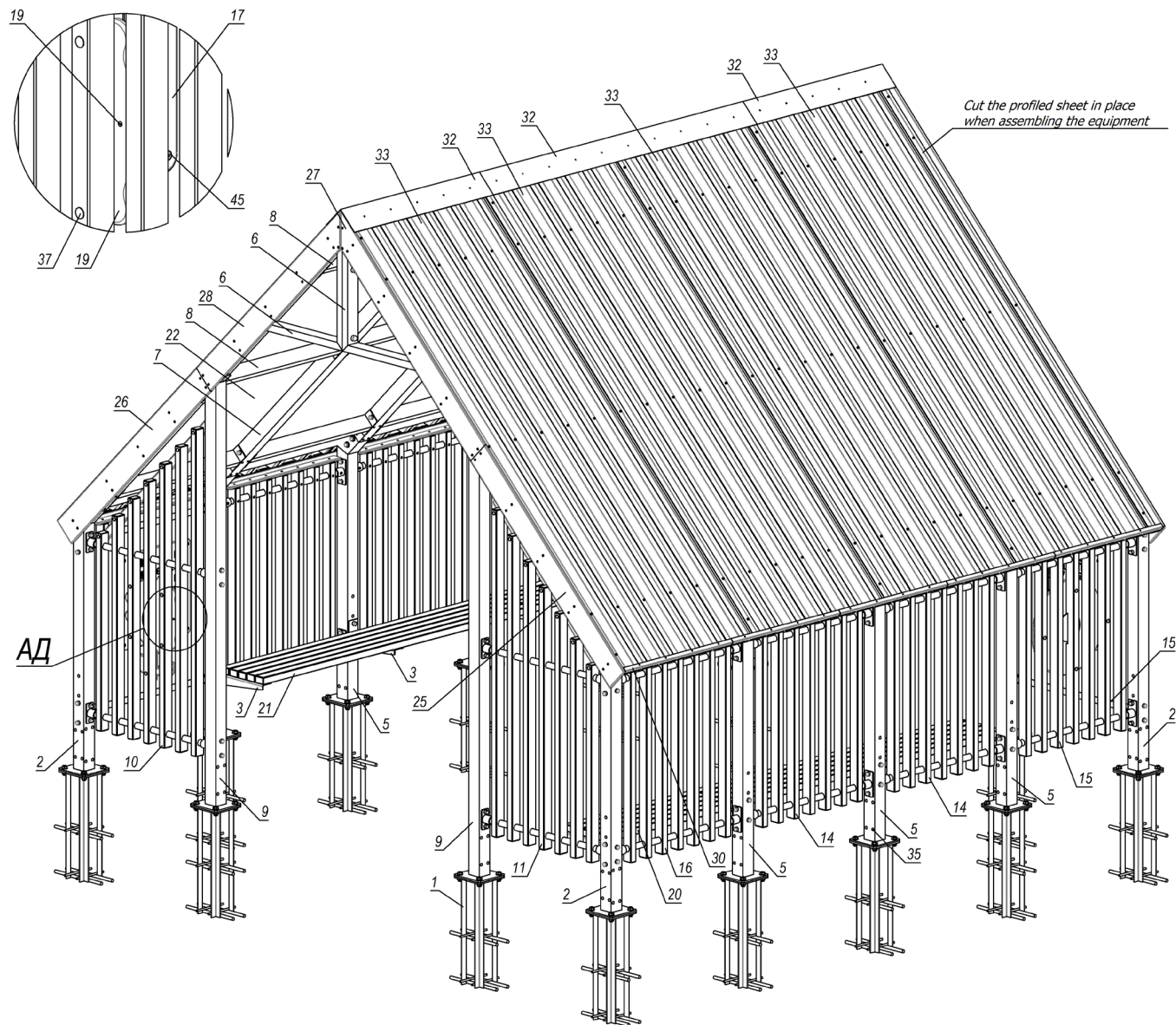


Picture 27 – Installation scheme of the overlays

Table №3 – Complete set of the floor

<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Crossbeam 920 mm	7	8
2	Crossbeam frontal 920 mm	7	4
3	Crossbeam 1920 mm	13	2
4	Crossbar 1270 mm	5	24
5	Crossbar central	5	12
6	Crosspiece 1275 mm	7	4
7	Crosspiece central 1260 mm	7	2
8	Floor support	4	4
9	Terrace board 162*24*740 mm	2	48
10	Chip log 50*35*1065 mm	2	13
11	Chip log 50*35*2825 mm	6	13
12	Overlay 2*80*1890 mm	2	2
13	Overlay 2*80*890 mm	1	12
14	Cap S17		72
15	Cap S17		128
16	Angle 3*32*30 mm		143
17	Angle 3*32*70 mm		13
18	Screw 4.2*38-A2 DIN 7982 C		312
19	Washer 8-A2 DIN 125 (flat)		312
20	Washer 10-A2 DIN 125 (flat)		384
21	Stud M8*60.A2-70, ISO7380 stainless		156
22	Nut M8.A2-70 DIN 934 (hexagonal) stainless		156
23	Metal clip 40x36 mm (H=5-6) (Holzdorf)		299
24	Screw 3.9*25-A2, DIN 7982 C stainless		624
25	Metal clip starter 32x30 mm (Holzdorf)		13
26	Terrace board 162*24*2400 mm HOLZDORF Impres (chestnut)		24
27	Bolt M10*75.A2-70, DIN 933 (full thread) stainless		56
28	Bolt M10*100.A2-70, DIN 933 (full thread) stainless		32
29	Bolt M10*110.A2-70, DIN 931 (not full thread) stainless		104
30	Nut M10 A2-70 DIN 985 (lock nut) stainless		192
31	Rivet 4.8*16 A2/A2 DIN 7337 stainless		46

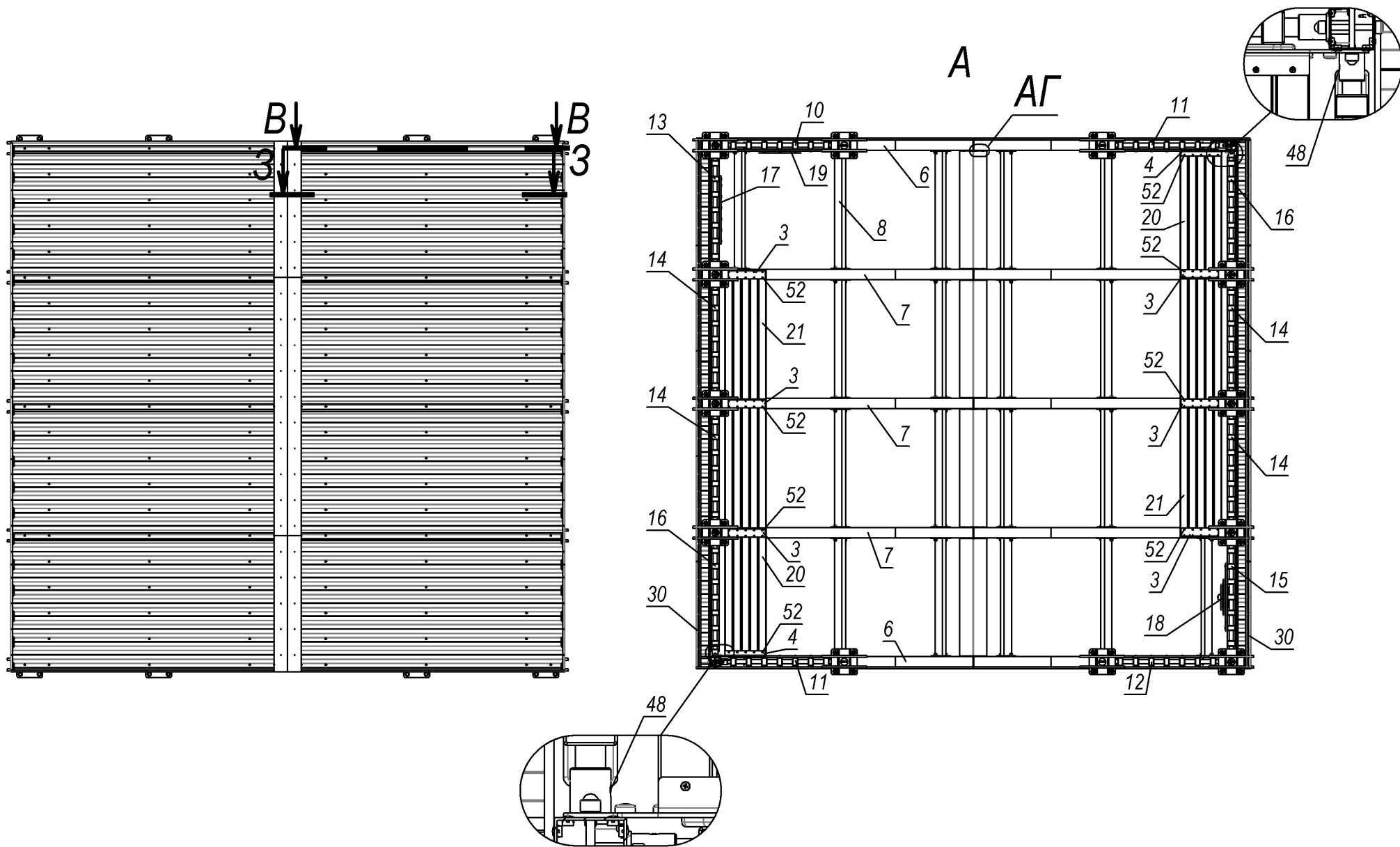
АД (1 : 5)



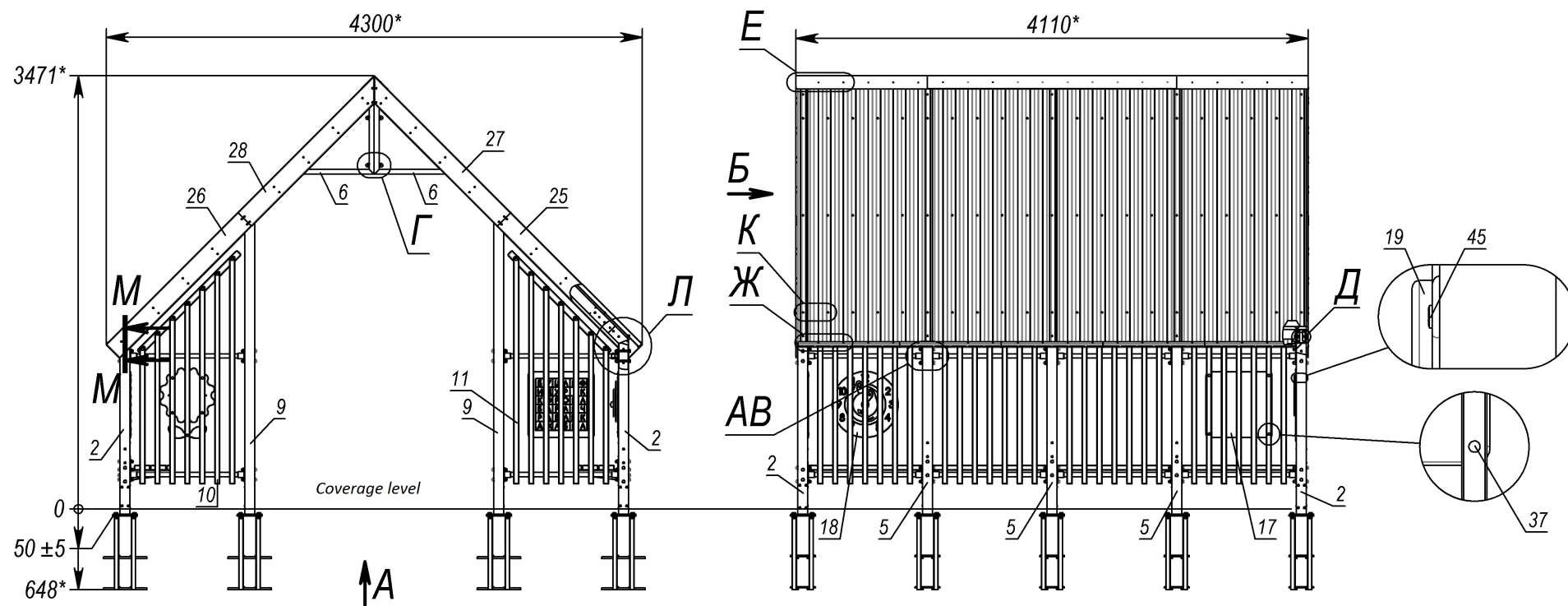
Picture 28

<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>	<i>Pos.</i>	<i>Name</i>	<i>Weight, kg</i>	<i>Q-ty</i>
1	Embedded element 600 mm assembly	9	14	28	Pediment overlay	3	2
2	Corner column	13	4	29	Panel Fillword	4	1
3	Bracket	2	6	30	Ebb	1	10
4	Bracket with adapter	2	2	31	Profile sheet HC35-1060-0.6 L=3.0 m	17	9
5	Column central	13	6	32	Skate 150x150x0.45	2	3
6	Rafter with rivets M10	27	4	33	Cap S17 (fig.)		144
7	Rafter	27	6	34	Cap S17 (fl.)		156
8	Run-through 920 mm	6	24	35	Plug ZDO 15x12 (for tech. hol.)		184
9	Column frontal	20	4	36	Plug for bolts MS16		20
10	Front panel left (for drawing board)	21	1	37	Bolt M8*70.A2-70, DIN 603 (furniture) stainless		17
11	Front panel right	21	2	38	Bolt M10*25.A2-70, DIN 933 (full thread) stainl.		48
12	Front panel left (for fillword)	21	1	39	Bolt M10*100.A2-70, DIN 933(full thread) stainl.		84
13	Panel with lamellas for the alphabet	18	1	40	Bolt M10*110.A2-70, DIN 931 (not full thread) stainl.		60
14	Panel with lamellas	18	4	41	Bolt M16*100.A2-70, DIN 933 (not full thread) stainl.		10
15	Panel with lamellas for the clock	17	1	42	Washer 10-A2 DIN 9021 (enlarged)		64
16	Panel with lamellas	17	2	43	Washer 10-A2 DIN 125 (flat)		272
17	Panel Brielle	4	1	44	Washer 6xMKS DIN 125 (flat)		20
18	Panel Clock	5	1	45	Nut M8x12.A2-70 ERICSON (flat) stainless		17
19	Panel Drawing board	3	1	46	Nut M10 A2-70 DIN 985 (lock nut) stainless		144
20	Lamella 60*40*955 mm	1	10	47	Nut M16.A2-70 DIN 985 (lock nut) stainless		10
21	Lamella 60*40*2035 mm	3	10	48	Screw 4.2*16-C1, DIN 7504 N (HKP with drill) stainl.		2
22	Roof lining	25	8	49	Screw 4.8*19 DIN 7504 K(hexagonal+washer EPDM)		146
23	Angle 150x150x918	5	4	50	Screw 4.8*32.C1 DIN 7504 P stainless		344
24	Roof lining	7	8	51	Screw 4*50-A2 DIN 7997 stainless		2
25	Pediment overlay	3	2	52	Screw 5*30-A2 DIN 7996 stainless		50
26	Pediment overlay	3	2	53	Rivet 3.2*6 A2/A2 DIN 7337 stainless		80
27	Pediment overlay	3	2	54	Rivet 4.8*16 A2/A2 DIN 7337 stainless		32

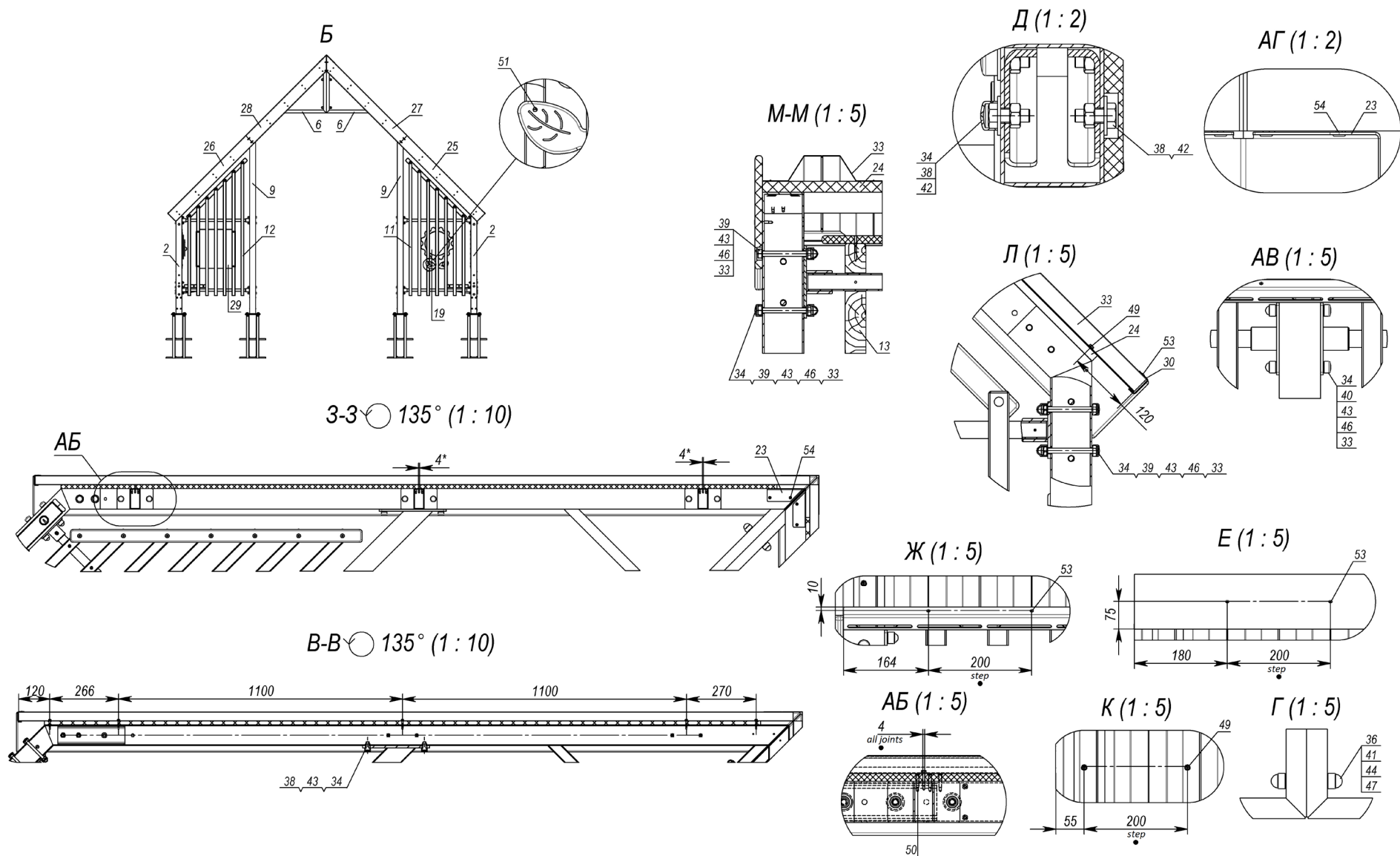
Picture 29



Picture 30



Picture 31



Picture 32