

Bus shelter 15 × 5.5 m

Model 185017P · arch spacing 2.5 m

185017P
5.5 × 15 × 5.3 m

BEFORE ASSEMBLY

TECHNICAL DATA

MODEL	WIDTH	LENGTH
185017P	5.5 m	15 m

HEIGHT	ARCH SPACING
5.3 m	2.5 m

IMPORTANT – READ THE INSTRUCTIONS BEFORE ASSEMBLY

Incorrect site preparation, assembly or maintenance can cause unnecessary and costly errors. Each part is marked with a code given in the parts list – follow these codes and the drawings during assembly.

- Tension the roof cover sufficiently so that no sagging ("pockets") forms on the roof, and retighten it once or twice after a few months of use.
- This applies especially to assembly in cold weather (autumn or winter): the cover is stiffer then, slackens when it gets warmer and must be retightened before the next winter.
- The owner is responsible for removing snow from the roof immediately if it does not slide off by itself.

SAFETY DURING ASSEMBLY

1. Keep the work area clean. Clutter increases the risk of injury. Do not erect the shelter near snowdrifts, on slippery or wet surfaces or in strong wind.
2. Children must be kept away from the work area.
3. Do not overstrain or lean out. Keep a stable stance and balance throughout the assembly.
4. Do not carry out assembly under the influence of alcohol, drugs or medication that may affect judgement or reflexes. If in doubt, do not carry out the assembly.
5. Allow for windy weather. If there is a risk of strong wind, fix the shelter base plates in concrete. Remove the cover during a windstorm.
6. Be careful with heat and electrical power sources. Do not place heat sources near the cover fabric and do not expose it to open fire.
7. Pay attention to personal safety during assembly and use. Take care not to trap your fingers between the clips and tubes. When using the shelter, ensure sufficient ventilation for exhaust gases and other hazardous fumes.

TOOLS AND EQUIPMENT

Measuring tape · Alignment string · Ladder or scaffold · Hammer · Drill · Spanner · Knife

CHECK THE DELIVERY

PARTS LIST

NO.	Part name	Pcs
1	Upper arch tube (roof)	7
2	Shoulder arch tube	10
2A	Shoulder arch tube for front and rear end wall	4
3	Vertical tube (post)	10
3A	Vertical tube for front and rear end wall	4
4	Strut (longitudinal tube)	30
5L	Base plate, left	2
5R	Base plate, right	2
6	Base plate for front and rear door	4
7	Base plate, middle	10
8	Lower post of front and rear door	4
9	Upper post of front and rear door	4
10	Upper beam of front and rear door	4
11	Beam of front and rear door	2
12	Lower tensioning tube of front and rear door	4
13	Tensioning accessories	8
13A	Clip	8
14	Tensioning tube	2 sets
15	Vertical tube of front and rear door	2 sets
16	Anchor stake	50
17	Bolt M12 × 100 mm	39
18	Bolt M10 × 90 mm	108
19	Bolt 10 × 30 mm	8
20	Bolt 10 × 60 mm	2
21	Latch	14
22	Roof cover	1
23	Front and rear cover (end walls)	2
24	Rope	1
25	Tensioning strap	14

NO.	Part name	Pcs
● **26**	Plastic plug	12
● **27**	Plastic plug for vertical tube	4

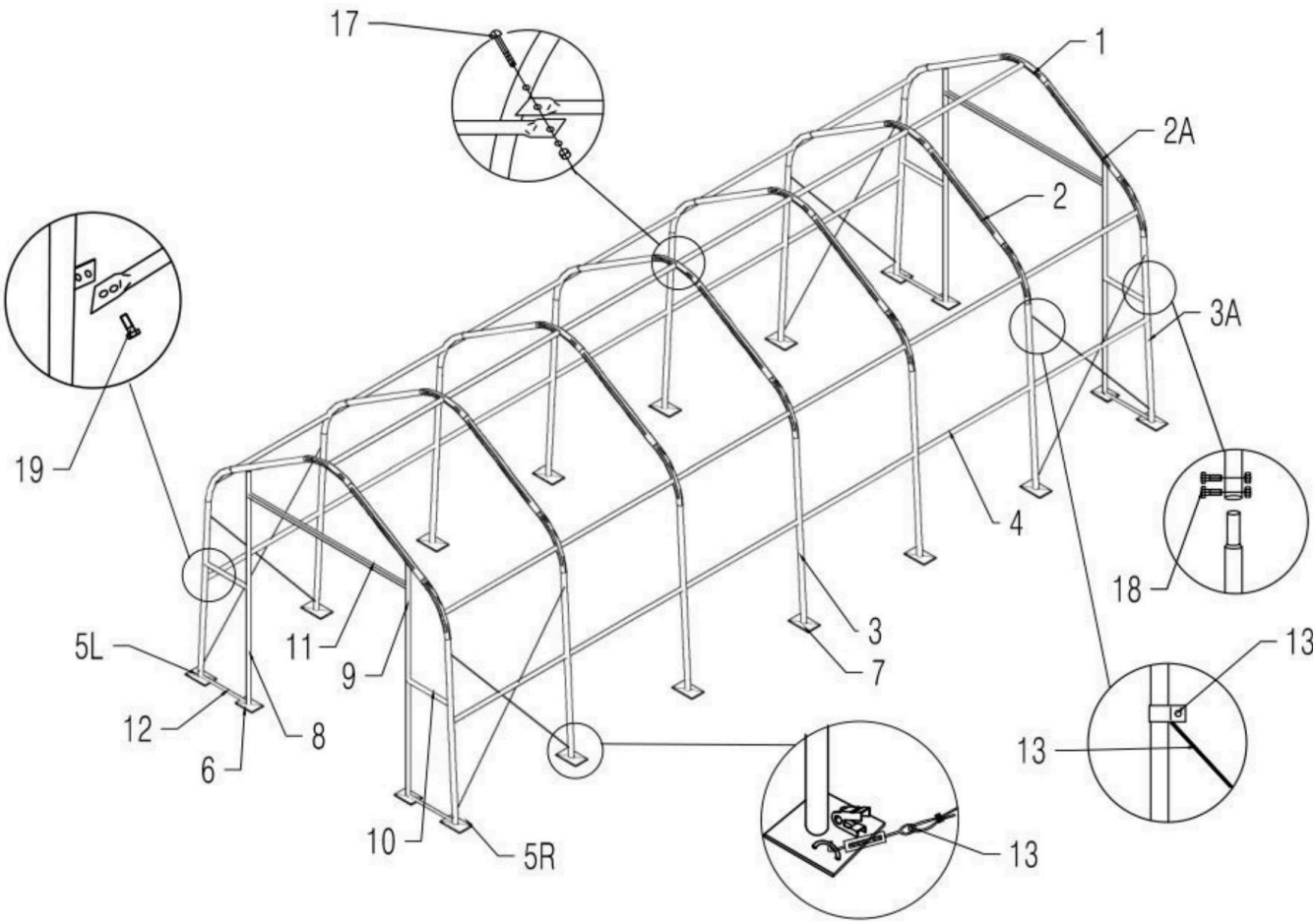


Fig. 1 – General frame drawing with part numbers

ASSEMBLY · PART A

INSTALLING THE FOUNDATIONS

When laying out the base plates, follow the diagram in Fig. 2. Dimensions are given in millimetres.

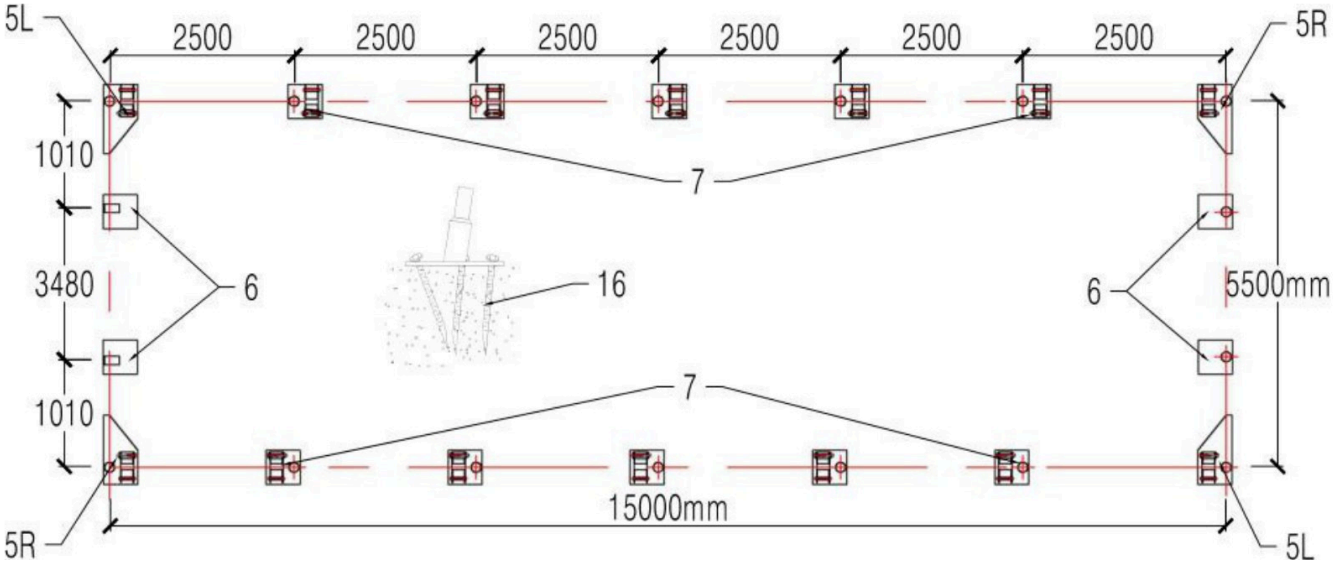


Fig. 2 – Base plate layout (dimensions in mm)

1

Measurements are taken from tube centre to tube centre on the base plates. Check the position of base plates 5L, 5R, 6 and 7 according to Fig. 2. The plates have holes for anchor stakes.

2

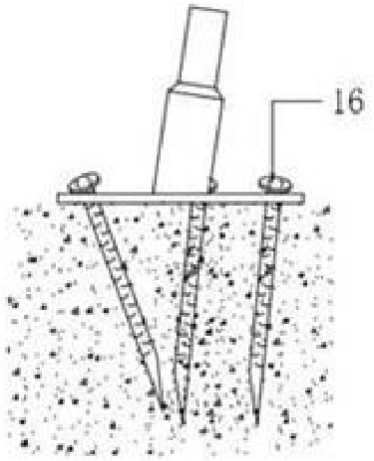


Fig. 3 – Anchoring the base plate

Anchor the base plates with anchor stakes No. 16 according to Fig. 3.

NOTE

The anchor stakes are intended for normal conditions – they are not suitable for rocky or frozen ground or for concrete.

ASSEMBLY · PART B

FRAME ASSEMBLY

1

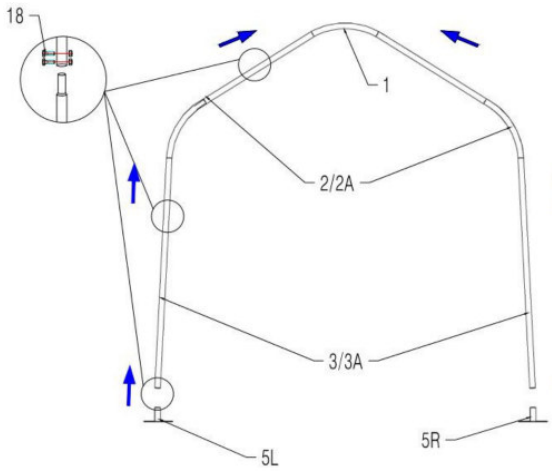


Fig. 4 – Arch assembly

Assemble the arches according to Fig. 4: one upper arch tube No. 1, two shoulder arch tubes No. 2 and two vertical tubes No. 3. For the front and rear end-wall arches, use shoulder tubes No. 2A and vertical tubes No. 3A. Secure the arch joints with M10 × 90 mm bolts (No. 18).

2

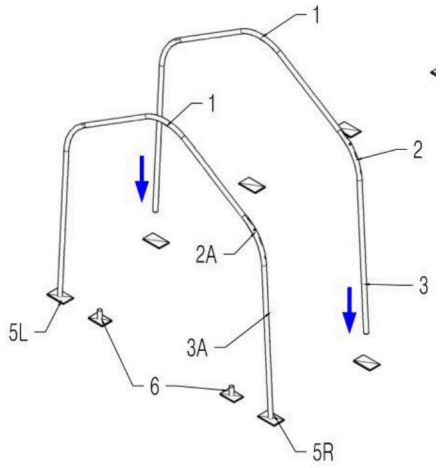


Fig. 5 – Fitting the arches on the base plates

Fit the assembled arches on the base plates: end-wall arches (No. 2A, 3A) on corner plates 5L and 5R, middle arches (No. 2, 3) on plates No. 7.

3

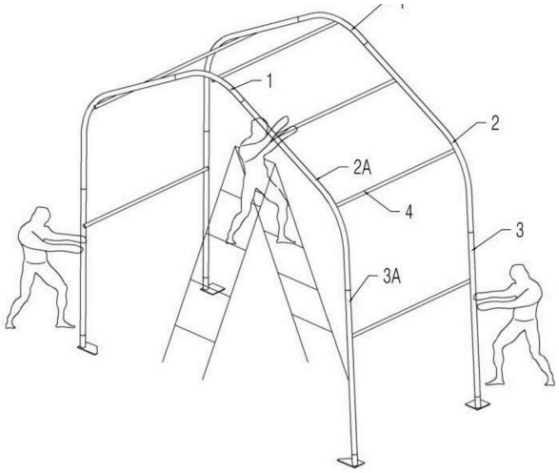


Fig. 6 – Fitting the struts between the arches

Hold the arches during assembly and fit the struts No. 4 at the top of the frame from a ladder.

4

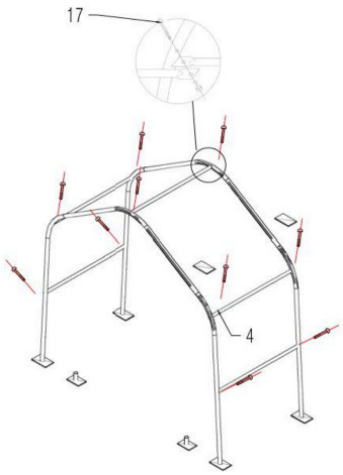


Fig. 7 – Connecting the arches with struts

After fitting the first two arches on the base plates, connect them with struts No. 4 and M12 × 100 mm bolts (No. 17).

5

According to the general drawing (Fig. 1), fit the tensioning accessories No. 13 with clips No. 13A (diagonal ties from the arches to the base plates).

ASSEMBLY · PART C

FRONT AND REAR WALL WITH DOOR

1

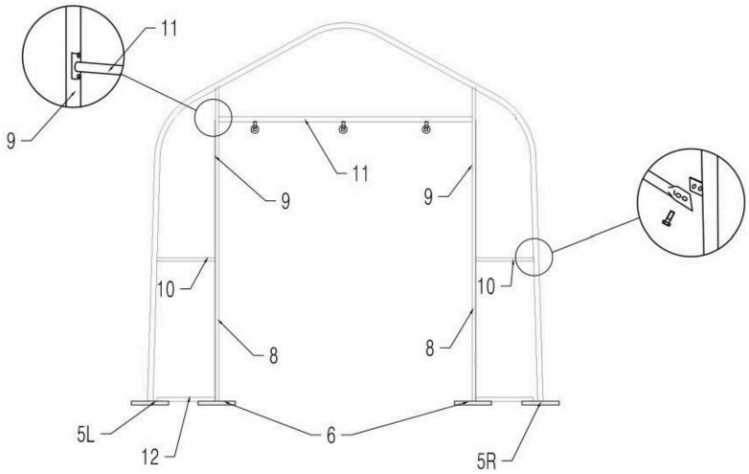


Fig. 8 – Front and rear door frame

According to Fig. 8, fit the front and rear door frame: place the lower posts No. 8 on base plates No. 6, fit the upper posts No. 9 and beam No. 11. Connect the upper beams No. 10 to the end-wall arch and fit the lower tensioning tube No. 12 between the base plates.

2

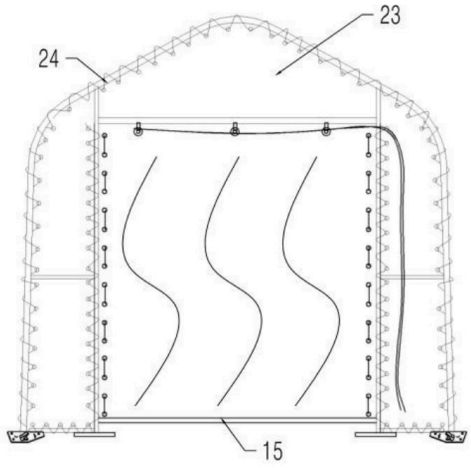


Fig. 9 – Front cover with door

Lace the front and rear covers No. 23 evenly with rope No. 24 – grommets on the cover edge to the tensioning tubes. The end-wall covers are tied with rope both to the frame (upper, shoulder and vertical arch tube) and to the end frame (door tube and side beam).

3

Tension the front and rear covers well. Fix the strap on the inner side of the roof cover edge, fit the cover snugly against the frame and tie the end of the strap to the clips on the base plates in the four corners.

ASSEMBLY · PART D

INSTALLING THE ROOF COVER

CAUTION

Do NOT install the roof cover on the frame in strong wind. A light breeze is best for installation: pull the cover over the arches so that the breeze blows under the cover and lifts it.

1

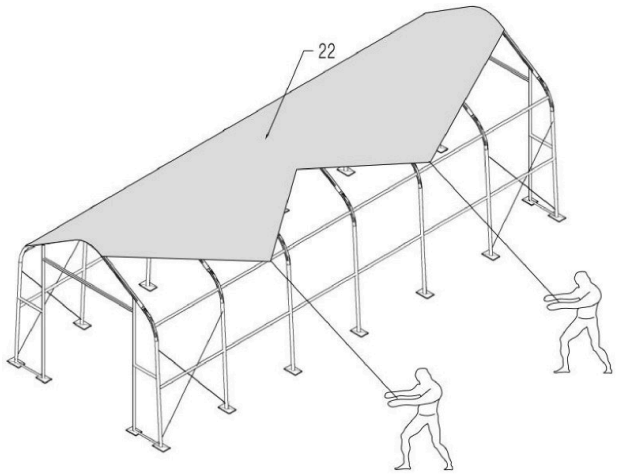


Fig. 10 – Pulling the roof cover over the frame

Pull the roof cover No. 22 onto the frame evenly, carefully and slowly.

2

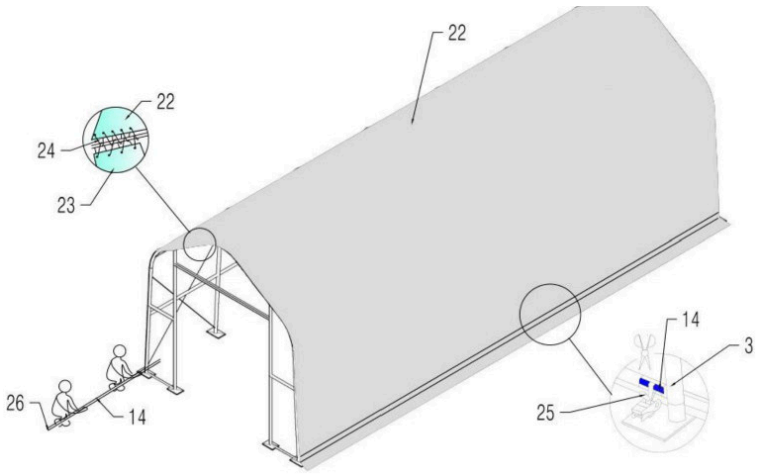


Fig. 11 – Tensioning tubes and straps

Insert the tensioning tubes No. 14 into the cover and fit a plastic plug No. 26 on each end of the lower tensioning tubes. Fix the nylon straps No. 25 loosely in the tensioners (ratchets) – do NOT TIGHTEN. Adjust the cover so that it is evenly and squarely centred on the frame.

3

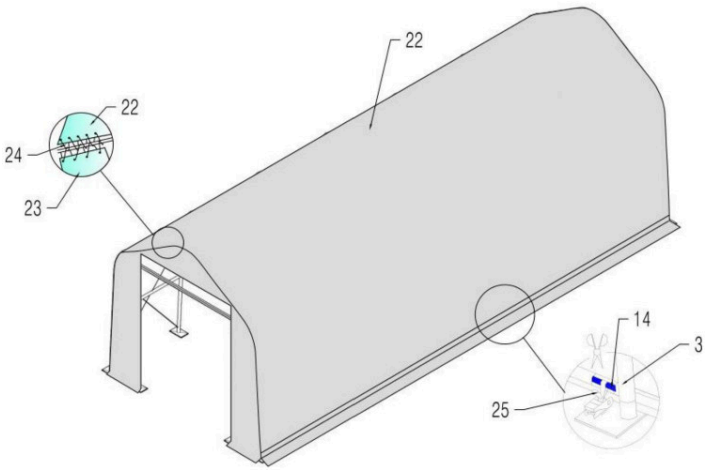


Fig. 12 – Finished shelter

Tensioned and fixed roof cover No. 22, laced with rope No. 24 to the end-wall covers No. 23 and fixed to posts No. 3 with straps No. 25.

HAGRO ORAVA s.r.o.
hagroshelters.com · hagro@hagro.sk
Contact us with any questions about assembly.