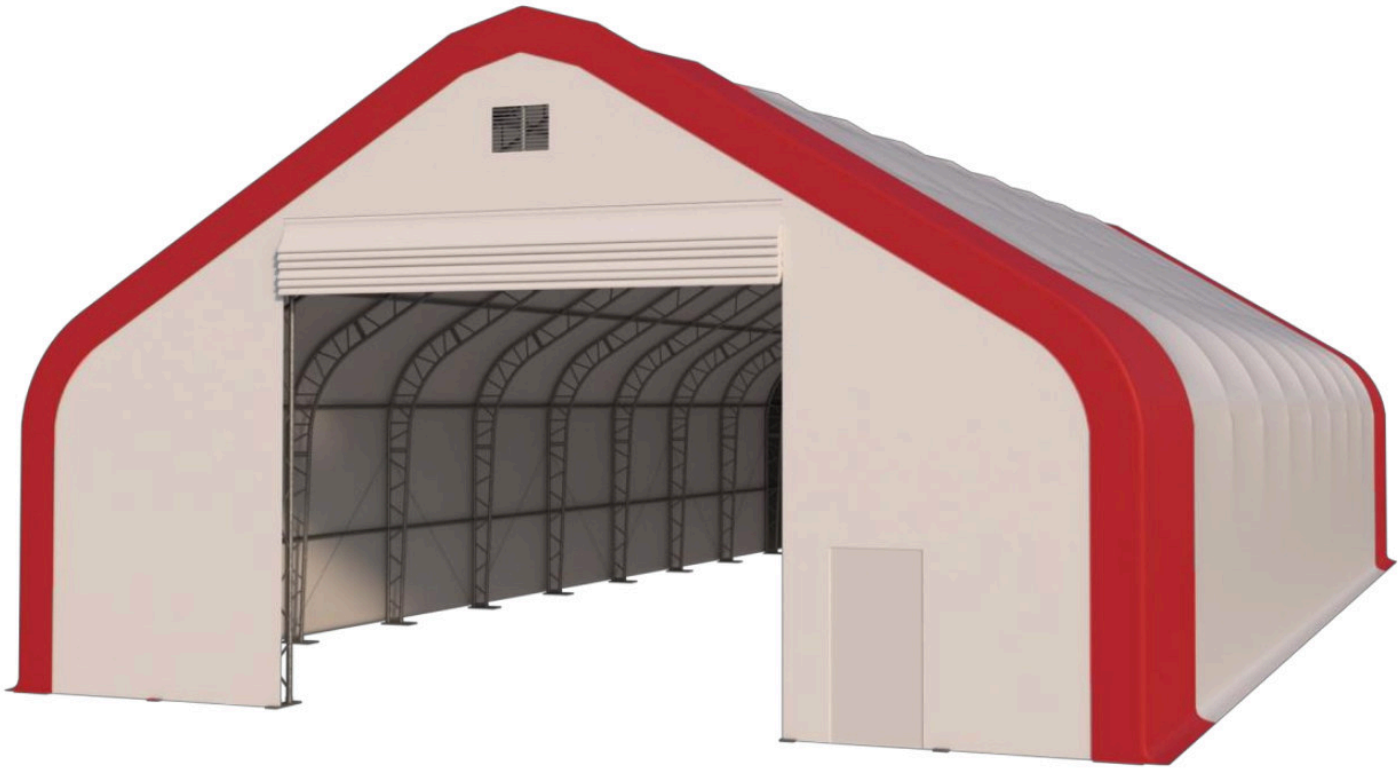


Gable-roof tent hall 15.25 × 30.5 m

Series W50H23DP · model 5010023DP · arch spacing 3.05 m

5010023DP

15.25 × 30.5 × 7.015 m

BEFORE ASSEMBLY

TECHNICAL DATA

MODEL	WIDTH	LENGTH
5010023DP	15.25 m	30.5 m

HEIGHT	DOOR SIZE	ARCH SPACING
7.015 m	5.49 × 4.88 m (š × v)	3.05 m

IMPORTANT – READ THE INSTRUCTIONS BEFORE ASSEMBLY

Incorrect site preparation, assembly or maintenance can cause unnecessary and costly errors. If you have any questions, please contact us. 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 stiff 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 hall 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 hall foundations in concrete. Remove the cover during a windstorm or very strong wind.
6. Be careful with heat and electrical power sources. Do not place heat sources near the cover 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 hall, ensure sufficient ventilation for exhaust gases and other hazardous fumes.

SAFETY TIP

Always use suitable protective equipment such as safety glasses and gloves.

TOOLS AND EQUIPMENT

Measuring tape · Crane · Alignment string · Step ladder · Welder · Hammer · Spanner · Scissors

CHECK THE DELIVERY

PARTS LIST

NO.	Part name	Pcs
1	Arch ridge tube	9
1A	Arch ridge tube of front and rear wall	2
2	Upper arch tube	18
2A	Upper arch tube of front and rear wall	4
3	Lower arch tube	18
3A	Lower arch tube of front and rear wall	4
4	Shoulder tube	16
4A	Shoulder tube of front and rear wall	4
5	Leg	22
6	Purlin	130
7	Base plate	18
7A/7B	Corner base plate	4
7C	Ratchet	28
8	Base plate for mechanical door	4
9	Side base plate of front and rear wall	4
9A	Base plate for fixing the roof cover in the middle (cover joint)	2
10L	Lower door rail, left	2
10R	Lower door rail, right	2
11L	Upper door rail, left	2
11R	Upper door rail, right	2
12	Door crossbar	4 / 2 sets
12A	Vertical tube above door crossbar	2
13	Lower leg, left	2
13A	Lower leg, right	2
14L	Upper leg, left	2
14R	Upper leg, right	2
15	Horizontal tube of front and rear wall	8
15A	Upper outer horizontal tube	4
15B	Lower outer horizontal tube	4

NO.	Part name	Pcs
16	Square tube for mechanical winch	2
17	Side steel cable	20 sets
18	Clip	70
18A	Triangular plate for cable attachment	10
19	Roof steel cable	24 sets
19A	Longitudinal steel cable at the ridge	9 sets
20	Lower tensioning tube of front and rear wall	8
21	Anchor stake	108
22	Roof cover tensioning tube	22 / 2 sets
25	Door cover support tube	28 / 14 sets
26	Mechanical winch	2
31	PPR tube 32	4 sets
31A	PPR tube 25	66
34	Front and rear wall cover	2
35	Roof cover	2
-	Accessory pack:	
23	Bolt 12 × 40 (tubes and door frame)	434
24	Bolt 10 × 90 (purlins and door frame)	155
24A	Bolt 12 × 90 (tubes and door frame)	20
24B	Bolt 10 × 60 (door crossbar and vertical tube)	6
27	Plastic end cap 38	20
27A	Ball bungee	4
28	Rope	1
29	Tools	2
30	Ratchet strap	22
32	Bolt 10 × 30 mm	24
33	Small ratchet with strap	204

CHECK THE DELIVERY

STRUCTURE DRAWING

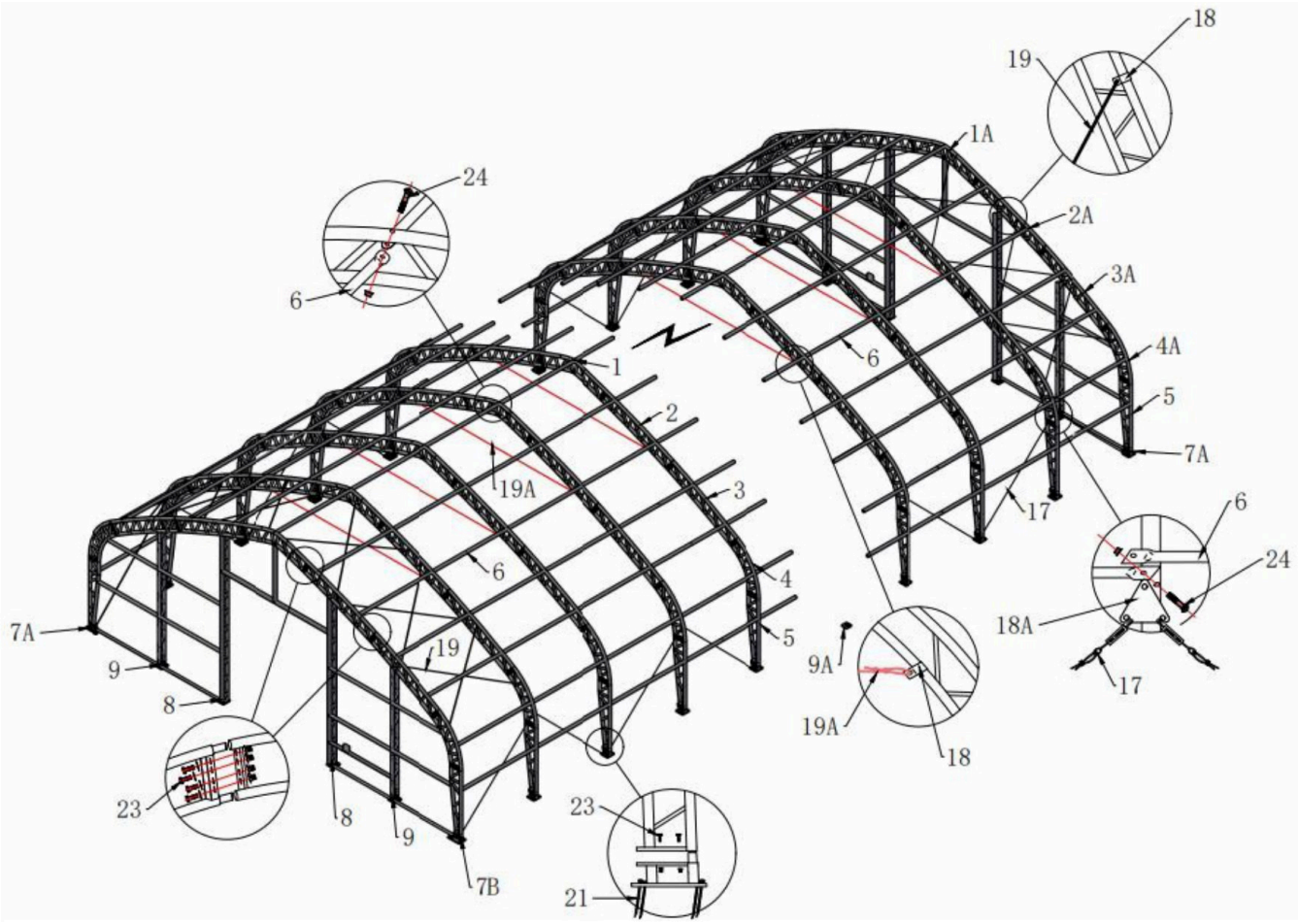


Fig. 1 – Frame drawing with part numbers (15.25 × 30.5 × 7.015 m)

ASSEMBLY · PART A

INSTALLING THE BASE PLATES

When positioning the base plates, follow Fig. 2.

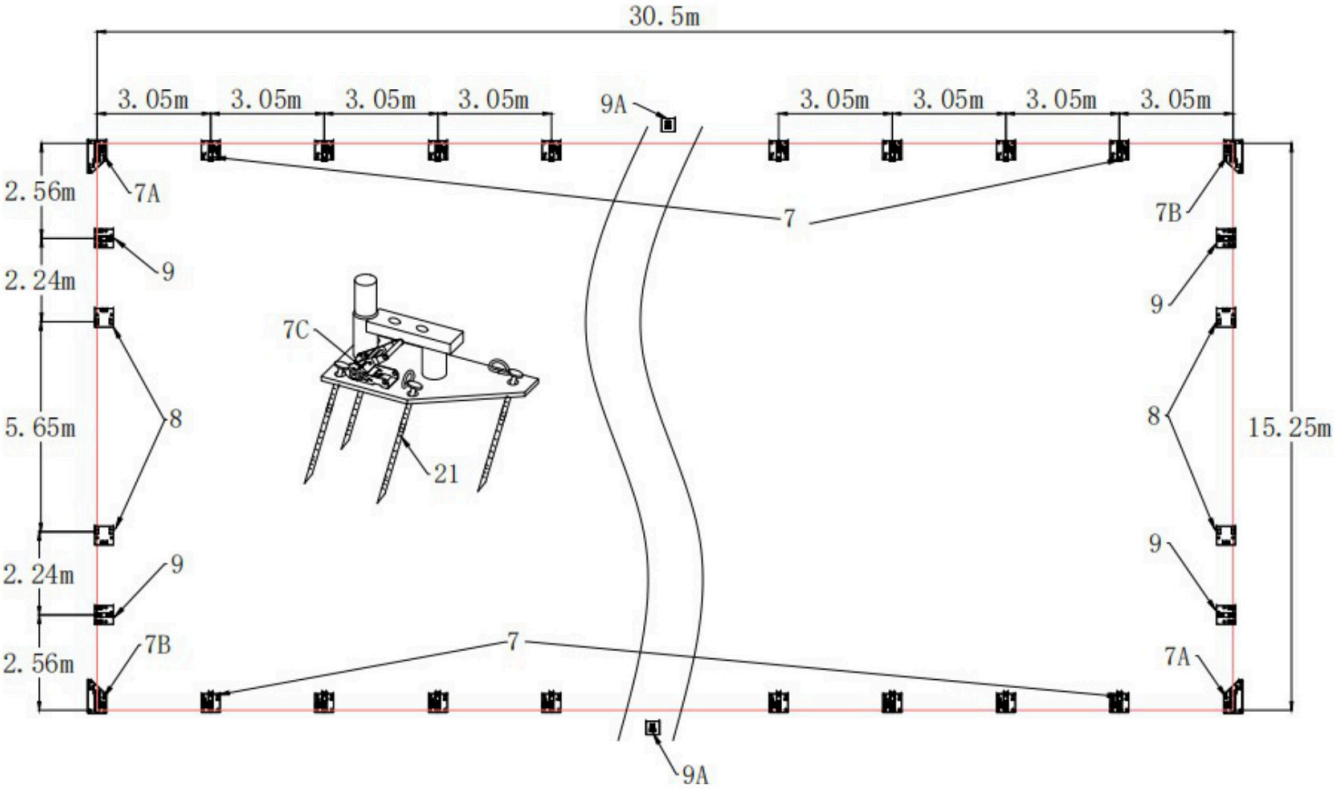


Fig. 2 – Base plate layout and plate detail with stakes (dimensions in m)

1 Dimensions are measured from tube centre to tube centre. Check the position of the base plates according to Fig. 2. Make sure the foundation plan is square.

2 Anchor base plates No. 7, 7A and 7B with 4 anchor stakes No. 21 each, and base plates No. 8, 9 and 9A with 2 anchor stakes each. Secure all base plates in this way.

NOTE

The anchor stakes are intended for normal conditions – they are not suitable for rocky or frozen ground or for concrete. If the hall is installed on concrete, use drive-in anchors or chemical anchors.

ASSEMBLY · PART B

FRAME ASSEMBLY

1

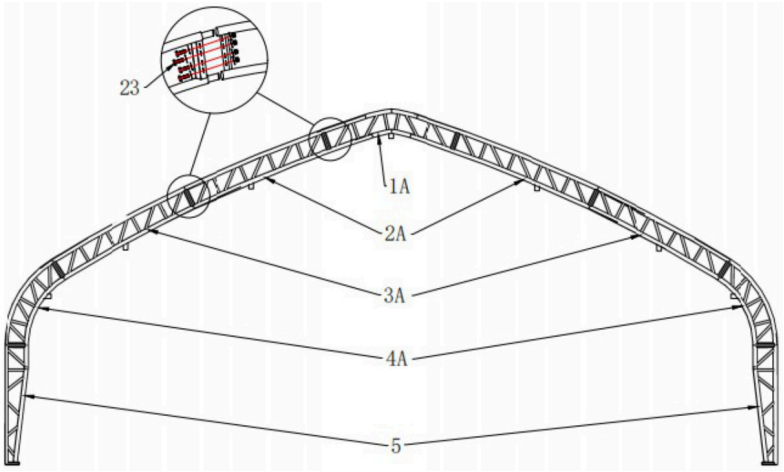


Fig. 3 – Front and rear wall arch

According to Fig. 3, assemble the first arch – the front and rear wall arch: 1 × ridge tube No. 1A, 2 × upper arch tube No. 2A, 2 × lower arch tube No. 3A, 2 × shoulder tube No. 4A and 2 × leg No. 5. Connect the parts with 12 × 40 mm bolts (No. 23).

2

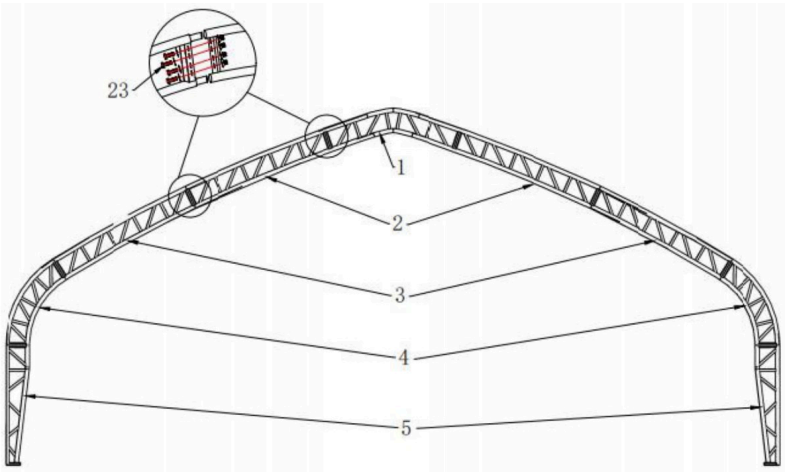


Fig. 4 – Middle arch

According to Fig. 4, assemble the second (middle) arch: 1 × ridge tube No. 1, 2 × upper arch tube No. 2, 2 × lower arch tube No. 3, 2 × shoulder tube No. 4 and 2 × leg No. 5. Connect the parts with 12 × 40 mm bolts (No. 23). Assemble the other arches one by one.

3

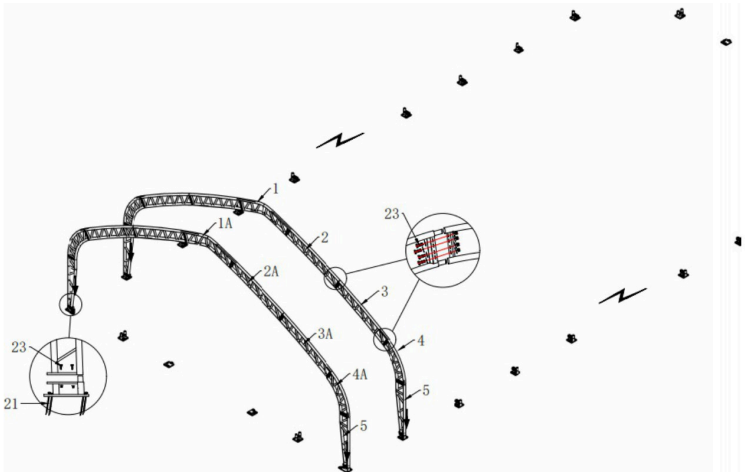


Fig. 5 – Fitting the first two arches

Stand the arches in the base plates and secure them with bolts No. 23 (Fig. 5).

4

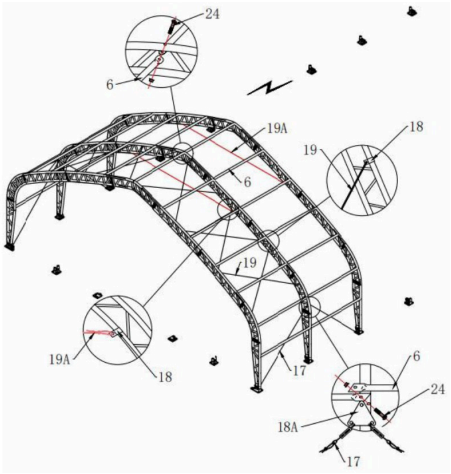


Fig. 6 – Purlins and steel cables

After fitting the first two arches, fit the purlins No. 6 between them with 10 × 90 mm bolts (No. 24). There are 13 purlins between every two arches. Continue with further arches and purlins until the main frame is complete (Fig. 6).

5

Connect the side steel cable No. 17 to purlin No. 6 with triangular plate No. 18A and a 10 × 90 bolt (No. 24). Fix the roof steel cables No. 19 between the arches and the longitudinal steel cable No. 19A at the ridge of each arch with clips No. 18 (Fig. 6).

IMPORTANT

Do not fully tighten the nuts until the frame is completely assembled and in place. Assemble the arches and the front and rear walls on the ground first, and only then fit them into the base plates.

ASSEMBLY · PART C

FRONT AND REAR WALL WITH DOOR

1

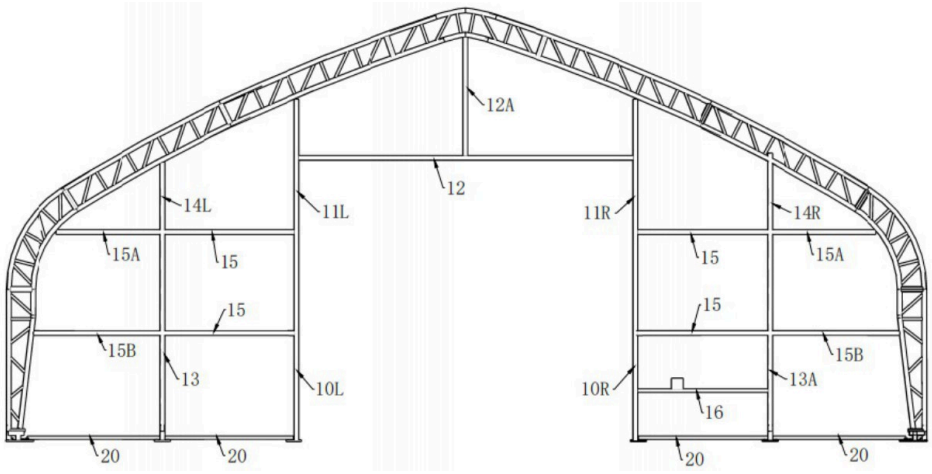


Fig. 7 – Front and rear wall frame parts

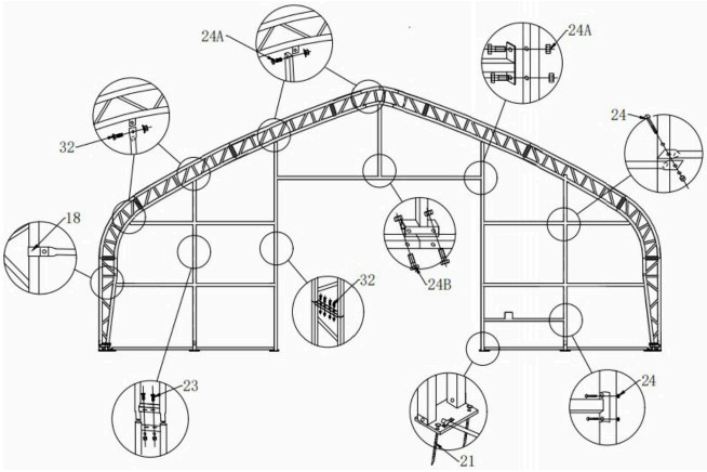


Fig. 8 – Frame joints

According to Fig. 7 and 8, prepare all front wall parts and bolt them together; keep to the spacings in the drawing. The frame consists of door rails No. 10L/10R and 11L/11R, door crossbar No. 12 with vertical tube No. 12A, legs No. 13, 13A, 14L and 14R, horizontal tubes No. 15, 15A and 15B, square winch tube No. 16 and lower tensioning tubes No. 20. Secure the joints with bolts No. 23, 24, 24A, 24B and 32 and clips No. 18. Anchor the base plates with anchor stakes No. 21.

2

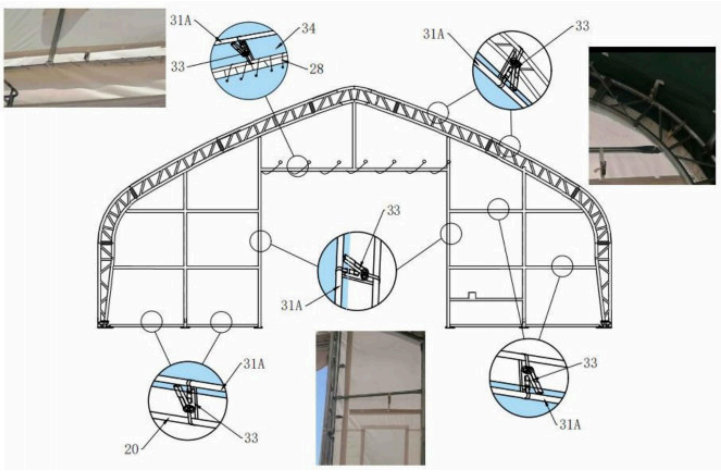


Fig. 9 – Front and rear wall cover

Prepare the front and rear wall cover No. 34. Place PPR tube No. 31A on the frame and tie the cover with the tube using small ratchets with strap No. 33 (Fig. 9).

3

Lay the door cover on the ground and insert the support tubes No. 25 into its horizontal pockets.

4

Wind the steel cable onto the mechanical winch No. 26. Then run it over the double pulley onto the single pulley. Run the other end of the cable straight over the double pulley.

5

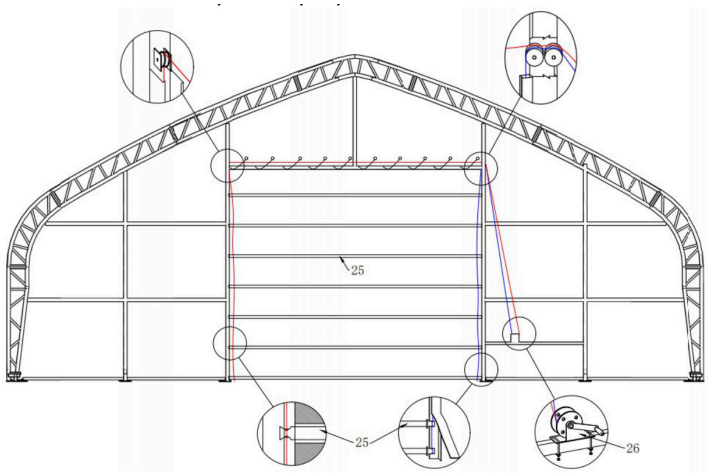


Fig. 10 – Door cover and mechanical winch

Pass the installed steel cable through the hole in support tube No. 25 from top to bottom (each strand separately). Tie a knot at the lower end of the support tube so that the cable cannot slip back (Fig. 10).

6

Lift the entire door cover and fix it firmly to the frame with rope.

ASSEMBLY · PART D

INSTALLING THE ROOF COVER

CAUTION

Do not install the roof cover in strong wind. A light breeze is best: pull the cover over the arches so that the breeze blows into it and lifts it.

1

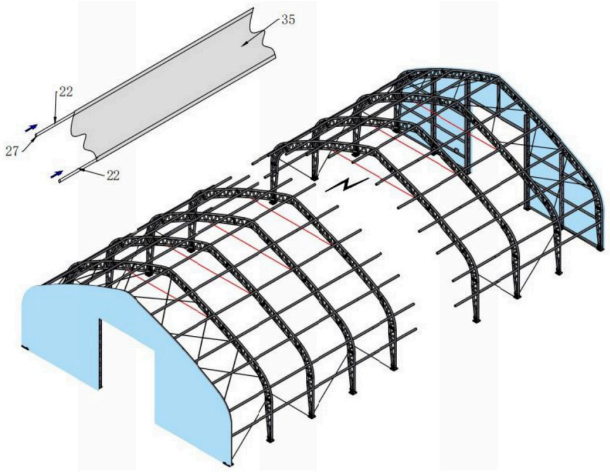


Fig. 11 – Preparing the roof cover

Spread out the roof cover No. 35 and lay it parallel to one side of the frame (Fig. 11).

2

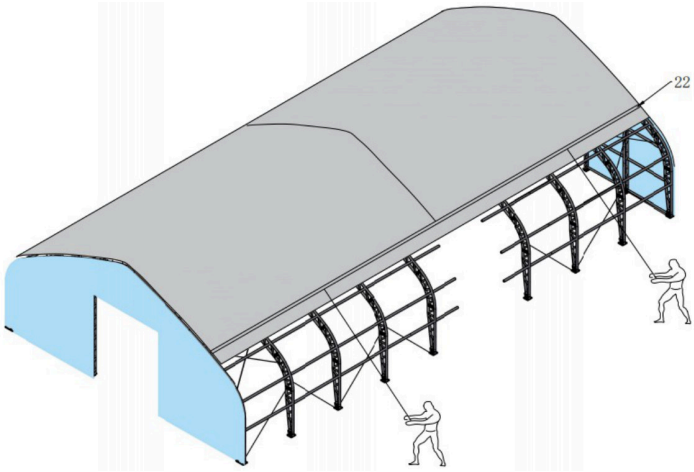


Fig. 12 – Pulling the roof cover over (model 5010023DP has 2 roof covers)

Pull the roof cover over the frame evenly, carefully and slowly (Fig. 12). Insert the roof cover tensioning tubes No. 22 and PPR tube No. 31 into the pockets on both edges of the cover; the cut-outs in the pockets must match the position of each inner base plate. Secure nylon strap No. 30 loosely in ratchet No. 7C – do NOT tighten it yet. Align the cover so that it is square and evenly centred on the frame.

3

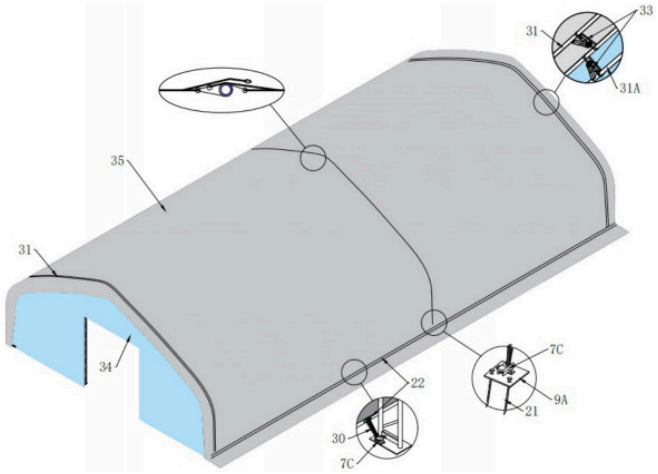


Fig. 13 – Fixing the roof cover (model 5010023DP has 2 roof covers)

Insert PPR tube No. 31 into the front and rear ends of the roof cover and fix it with small ratchets No. 33. Finally, lace the cover with rope. If the roof cover consists of several pieces, also insert a PPR tube into both sides of each piece and join the pieces with rope (Fig. 13).

4

Fit plastic end caps No. 27 on all tube ends.

5

The end flaps must overhang evenly at both ends. With the flaps folded back out of the way, pull the roof cover against the end arches with the supplied rope. Shorten the rope as required. We recommend using separate pieces of rope and lacing from the bottom edges to the top centre. Secure the ropes at the top centre and tension the cover on both sides while lacing. Fix the rope at the bottom edge.

6

At the cut-outs, wrap strap No. 30 around the tubes and pass it through the ratchet's winding spool. Move the ratchet back and forth until the roof cover is taut.

IMPORTANT

Under no circumstances leave the roof cover unsecured until assembly and tightening are completed. The procedure is fairly simple, but several tightening rounds will be needed to get a smooth, taut roof cover.

DETAILS

ASSEMBLY PHOTOS

The photos below show details of the finished assembly.





Fig. 14 – Details A (left) and B (right)

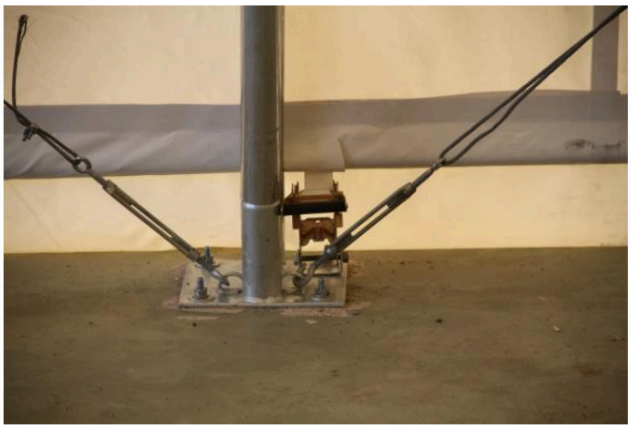




Fig. 15 – Details C (left) and D (right)



Fig. 16 – Detail E



Fig. 17 – Detail F (mechanical winch)

MAINTENANCE

MAINTENANCE AND USE

- After completing assembly, wrap the gaps in the steel structure with tape (Fig. 18).
- After completing assembly, check and adjust the base plates every month.
- Adjust the roof cover every month – it must be smooth and well tensioned.
- Retighten the cover after a few months of use and before winter.
- Remove snow from the roof immediately if it does not slide off by itself.



Fig. 18 – Wrapping gaps in the structure with tape

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

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