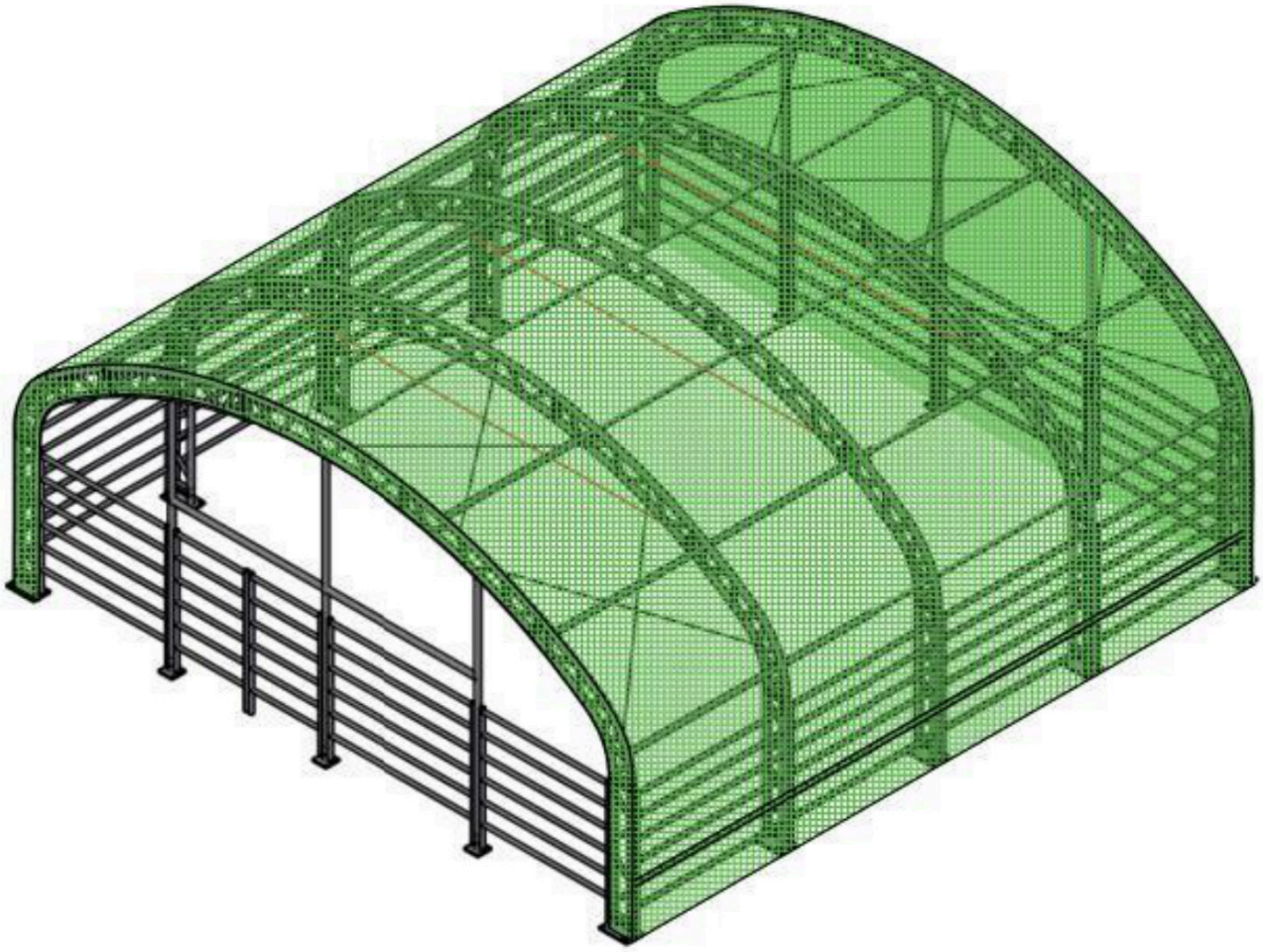

Livestock shelter 10 × 10 m

Dimensions 9.76 × 9.76 × 4.5 m · arch spacing 2.44 m

Š × D × V
9.76 × 9.76 × 4.5 m

BEFORE ASSEMBLY

TECHNICAL DATA

WIDTH	LENGTH	HEIGHT
9.76 m	9.76 m	4.5 m

ARCH SPACING
2.44 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 part number from the parts list – follow the part numbers and drawings during assembly.

- Tension the cover sufficiently so that no "pockets" form on the roof. Retighten it after a few months of use (1–2×).
- This applies especially to assembly in cold weather (autumn, winter): the cover is stiffer in the cold and may slacken when it gets warmer. Retension it before the next winter.
- If snow does not slide off the roof by itself, remove it immediately.

SAFETY DURING ASSEMBLY

1. Keep the work area clean. Clutter increases the risk of injury. Do not assemble near snowdrifts, on slippery or wet surfaces or in strong wind.
2. Children must be kept away from the work area.
3. Do not overestimate your abilities. Always keep a stable stance and balance.
4. Do not assemble under the influence of alcohol or drugs. Read the warnings on medication that may affect attention or reactions. If in doubt, do not carry out the assembly.
5. Consider the possible wind conditions – if necessary, anchor the base in concrete. In extreme weather (e.g. a windstorm), remove the cover.
6. Be careful when using electrical and heat 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 in the clamps and tubes. When using equipment that produces exhaust gases, ensure sufficient ventilation.

TOOLS AND EQUIPMENT

Measuring tape · Marking string · Stakes · Ladder or scissor lift · Hammer (mallet) · Drill · Spanner · Knife · Lifting device (hoist, jack)

CHECK THE DELIVERY

PARTS LIST

NO.	Part name	Quantity
1	Roof arch tube	3 sets
1A	Roof arch tube for front and rear door	2 sets
2	Side wall arch tube	6 sets
2A	Side wall arch tube for front and rear door	4 sets
3	Shoulder arch tube	10 sets
4	Vertical support leg	10 sets
5	Longitudinal beam (purlin)	28 sets
6	Railing for front and rear middle wall	22 sets
6A	Railing for front and rear side wall	8 sets
7	Base plate – centre	10 sets
8	Base plate for front and rear door	6 sets
9	Lower vertical leg for rear door	3 sets
9A	Lower vertical leg for front door	3 sets
10	Upper middle vertical leg for front and rear door	2 sets
10A	Upper side vertical leg for front and rear door	4 sets
11L	Left door	1 pcs
11R	Right door	1 pcs
12	Door beam for both doors	2 sets
13	Single tube clamp with bolt M10 × 40	24 sets
14	Double tube clamp with bolt M10 × 40	34 pcs
15	Bolt M12 × 40	80 pcs
16	Carriage bolt M10 × 90	47 pcs
16A	Carriage bolt M8 × 80	24 pcs
18	Self-tapping screw	60 pcs
19	Lower roof cover tensioning tube	2 sets
20	Roof cover	1 pcs
20A	Rear cover	1 pcs
21	Ratchet with strap	24 pcs
22	Rope (bundle)	1 bundle

NO.	Part name	Quantity
23	Anchor stake	52 pcs
24	Plastic end cap Ø 25 mm	4 pcs
25	Plastic end cap Ø 40 mm	36 pcs
26	Bolt M10 × 30	6 pcs
27	Steel roof cable	16 pcs
28	Vertical steel roof cable	3 pcs
29	Clip	38 pcs

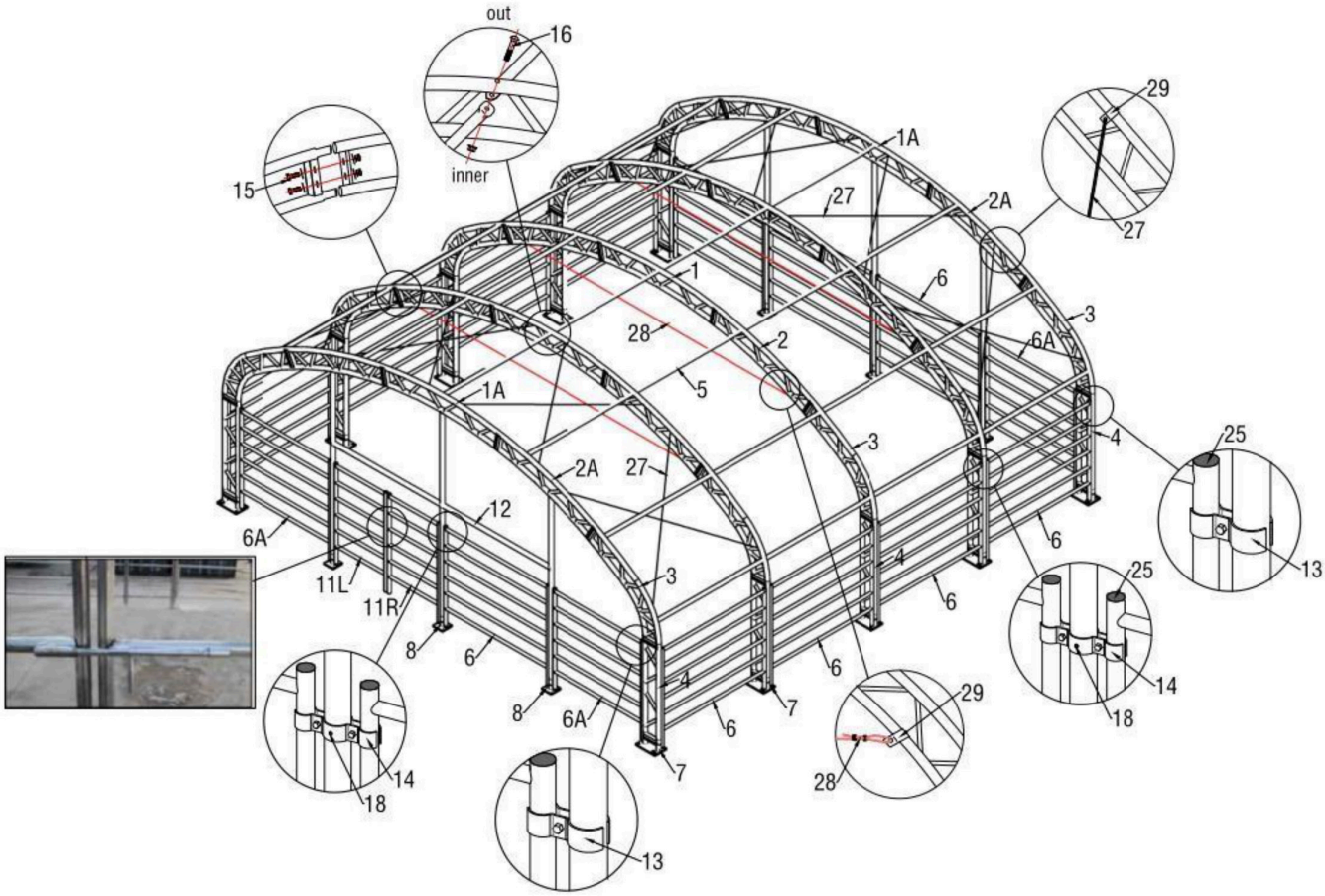

Fig. 1 – General drawing with part numbers

ASSEMBLY · PART A

INSTALLING THE BASE

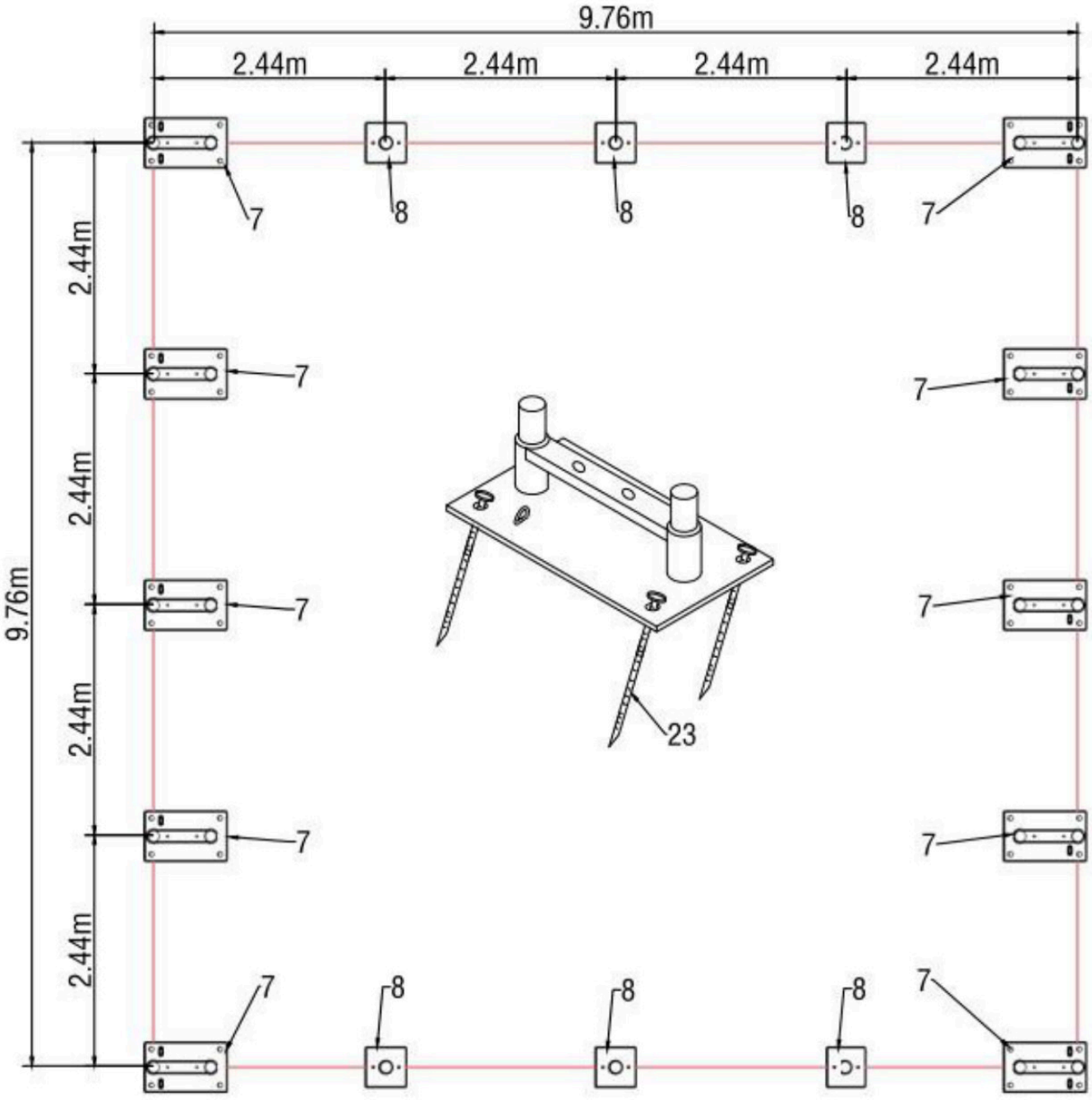

Fig. 2 – Base plate layout (dimensions in m)

1 Position the base plates (No. 7 and No. 8) according to Fig. 2. Dimensions are measured from tube centre to tube centre on the base plates. Check that the base plates are positioned correctly.

2 Each base plate has 4 holes and comes with 4 anchor stakes (No. 23). Push the stakes through the holes in the base plates and mark the anchoring points. Then set the plates aside and mark the exact points where the stakes will go. The anchor stakes are not suitable for a concrete base – for installation on concrete, use expansion bolts.

ASSEMBLY · PART B

STRUCTURE ASSEMBLY

1

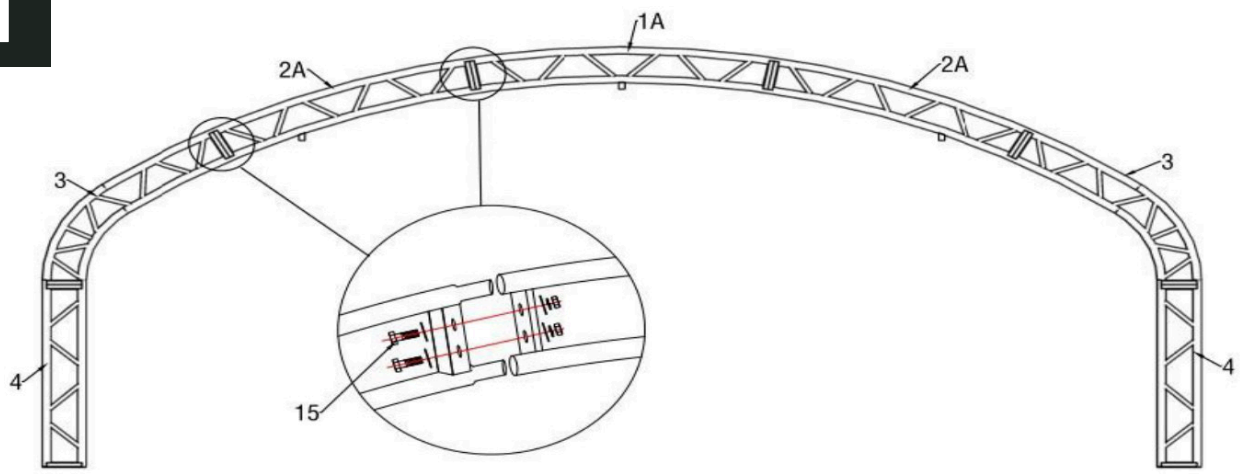

Fig. 3 – Arch for front and rear door (No. 1A, 2A, 3, 4)

Prepare the parts for the first group of arches: 1 pc roof arch tube (No. 1A), 2 pcs side wall arch tubes (No. 2A), 2 pcs shoulder arch tubes (No. 3) and 2 pcs vertical support legs (No. 4). Connect the parts with M12 × 40 bolts (No. 15) according to Fig. 3.

2

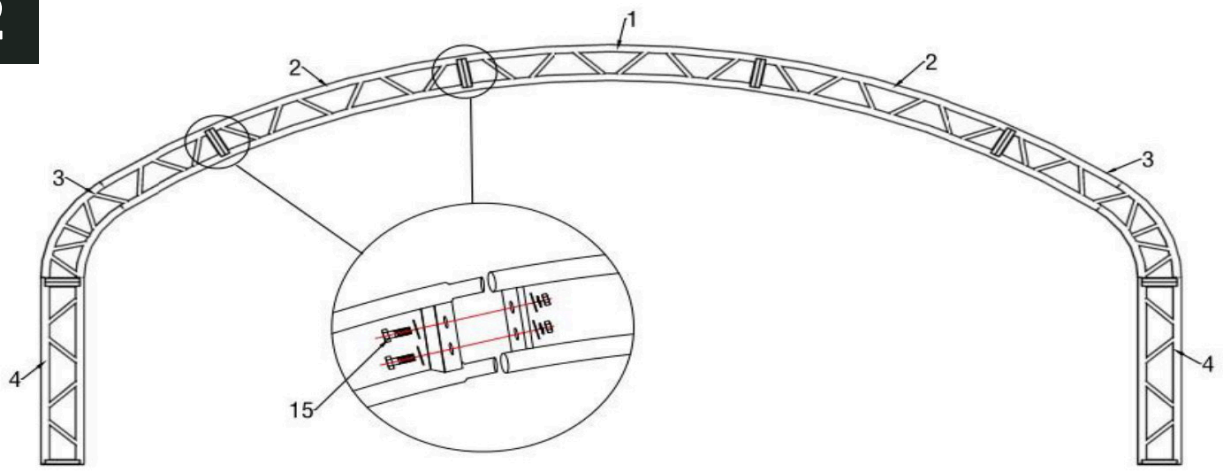

Fig. 4 – Middle arch (No. 1, 2, 3, 4)

Assemble the middle arches in the same way from parts No. 1, 2, 3 and 4 and connect them with bolts No. 15 (Fig. 4).

3

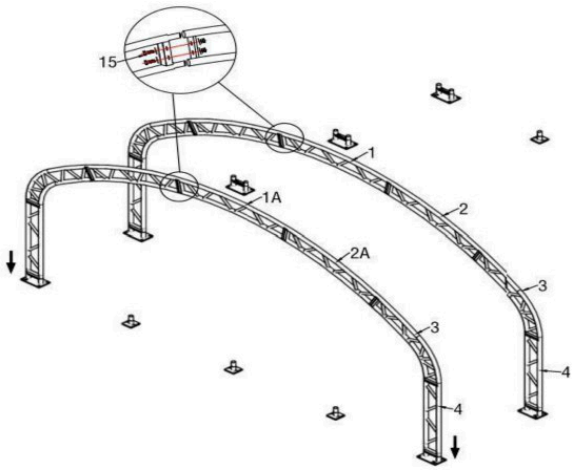

Fig. 5 – Fitting the first arches onto the base plates

Stand the first group of arches on the base plates according to Fig. 5. Fit the second group of arches in the same way as the first.

4

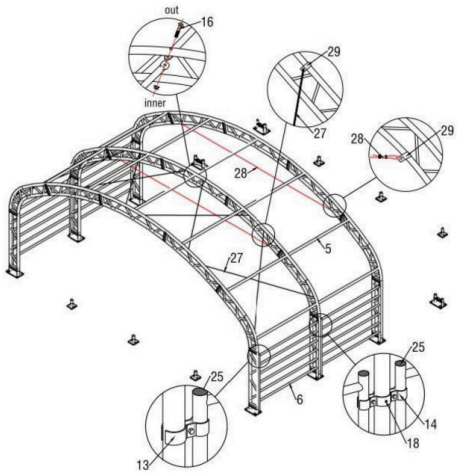

Fig. 6 – Connecting the arches, beams, cables and railing

Assemble and connect the remaining arches in the same way. According to Fig. 6, fit the longitudinal beams (No. 5) with carriage bolts (No. 16), the steel roof cables (No. 27 and No. 28) with clips (No. 29) and the railing (No. 6) with clamps (No. 13, No. 14) and self-tapping screws (No. 18) between the arches. Fit plastic end caps (No. 25) on the tube ends.

ASSEMBLY · PART C

FRONT AND REAR WALL

1

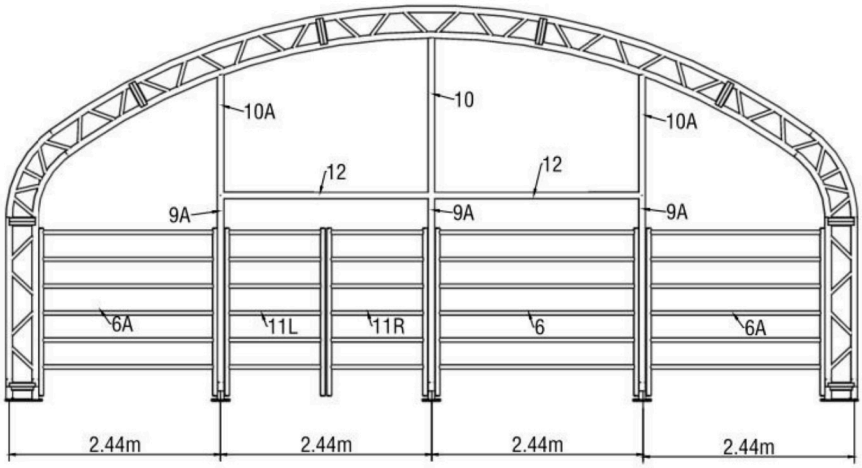

Fig. 7 – Front wall with door (spacing 2.44 m)

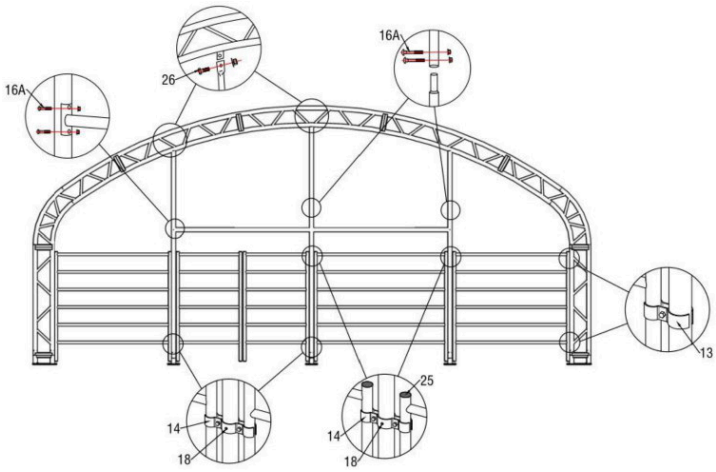

Fig. 8 – Front wall joint details

Fit the front wall according to Fig. 7 and Fig. 8: lower vertical legs (No. 9A), upper middle vertical leg (No. 10), upper side vertical legs (No. 10A), door beams (No. 12), railing (No. 6 and No. 6A) and doors (No. 11L and No. 11R). Connect the legs to the arch with M8 × 80 carriage bolts (No. 16A) and M10 × 30 bolts (No. 26), and the railing with clamps (No. 13, No. 14) and self-tapping screws (No. 18). Fit plastic end caps (No. 25) on the tube ends.

2

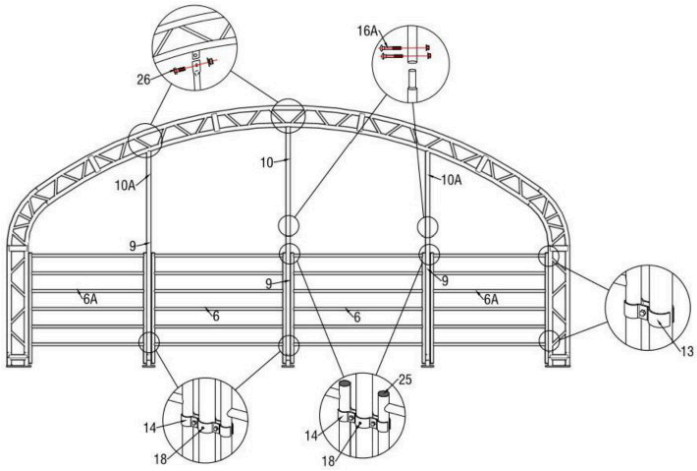

Fig. 9 – Rear wall

Fit the rear wall in the same way according to Fig. 9 – with the lower vertical legs for the rear door (No. 9).

3

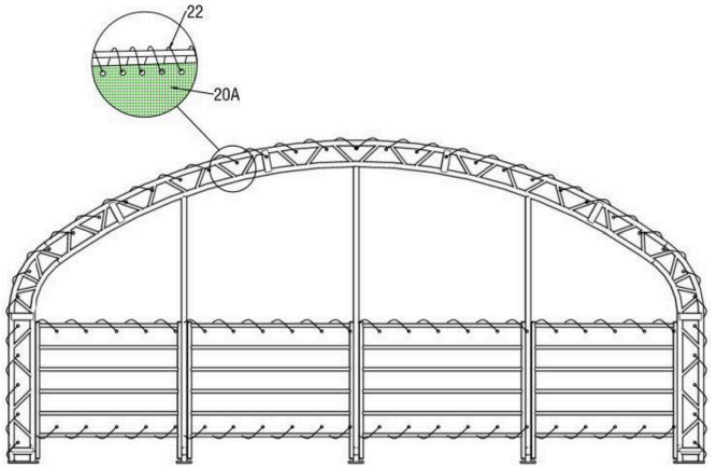

Fig. 10 – Rear cover

Fit the rear cover (No. 20A) using ropes (No. 22) according to Fig. 10.

ASSEMBLY · PART D

FITTING THE ROOF COVER

1 Insert the lower tensioning tube (No. 19) into the pockets on the edge of the roof cover (No. 20) according to Fig. 11.

2

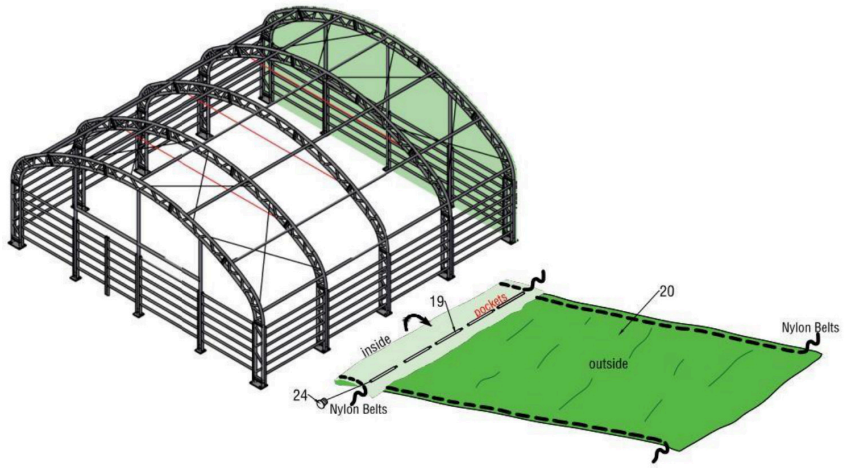

Fig. 11 – Tensioning tube in the roof cover pockets

Fit plastic end caps (No. 24) on the ends of the lower tensioning tube (No. 19) to prevent damage to the cover and water ingress.

3

Fig. 12 – Pulling the roof cover over the structure

With the help of several people, throw the rope from one side of the structure to the other over the shelter frame and pull the rope as shown in Fig. 12.

4 Pass the rope through the eyelets on the roof cover and fix the cover to the steel structure.

5

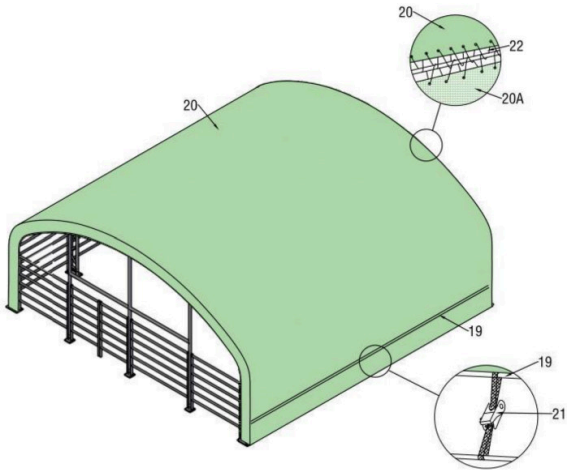

Fig. 13 – Tensioning the roof cover (No. 19, 20, 21, 22)

After aligning and settling the cover, cut openings (pockets) so that the lower tensioning tube (No. 19) can come out.

6

Use the ratchets with straps (No. 21) to attach the tensioning tube to the railing, tensioning the roof cover firmly.

7

There are straps at both ends of the roof cover – tighten them so that the cover fits firmly against the structure, and fix both strap ends to the frame.

8

Fit plastic end caps Ø 40 mm (No. 25) on the railing tube ends to prevent damage and water ingress.

!

CAUTION

Pull the roof cover over the structure evenly, carefully and slowly. Do not fit the cover in strong wind.

i

ASSEMBLY IS NOW COMPLETE.

Check and retighten the cover after a few months of use and before winter. Keep these instructions for future reference.

HAGRO PLACHTOVÉ HALY

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Contact us with any questions about assembly.