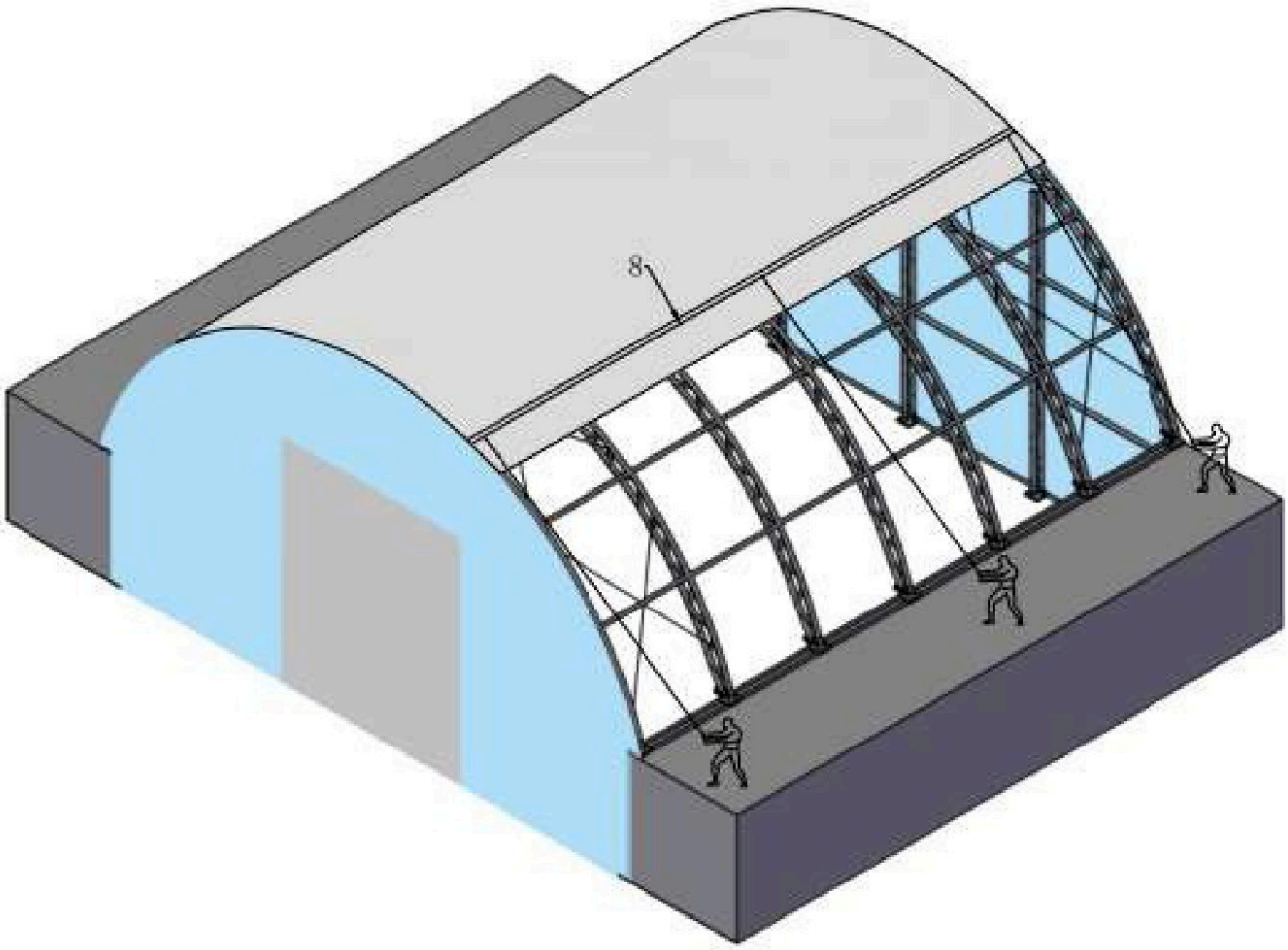


Container shelter 12 × 12 m

Model C404015S · front wall with winch door · rear wall

C404015S
12 × 12 × 4.5 m

BEFORE ASSEMBLY

TECHNICAL DATA

MODEL	WIDTH	LENGTH
C404015S	12 m	12 m

HEIGHT	ARCH SPACING
4.5 m	2 m

IMPORTANT – READ THE INSTRUCTIONS BEFORE ASSEMBLY

Incorrect site preparation, assembly or maintenance can cause unnecessary and costly errors. For easier assembly, 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 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 and winter): the cover is stiff then, slackens again when sun and warmth arrive and must be retensioned before the next winter.
- The owner is responsible for removing snow immediately if it does not slide off by itself.

SAFETY DURING ASSEMBLY

1. Keep the work area clean. Clutter can cause injuries. Do not erect the shelter near snowdrifts, in slippery or damp places or in strong wind.
2. Children must be kept away from the work area.
3. Do not lean too far. Always keep a stable stance and balance.
4. Do not assemble under the influence of alcohol or drugs. If taking medication, read the warnings to see whether it affects judgement or reflexes. If in any doubt, do not assemble.
5. Allow for possible windy weather; if there is a risk of strong wind, fix the foundations in concrete. Remove the cover during a windstorm.
6. Be careful with 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. Do not trap your fingers between the clips and tubes during assembly. During use, ensure sufficient ventilation to remove exhaust gases and other hazardous fumes.

EQUIPMENT AND TOOLS FOR INSTALLATION

Measuring tape · Alignment string · Ladder · Welder · Hammer · Spanner · Scissors

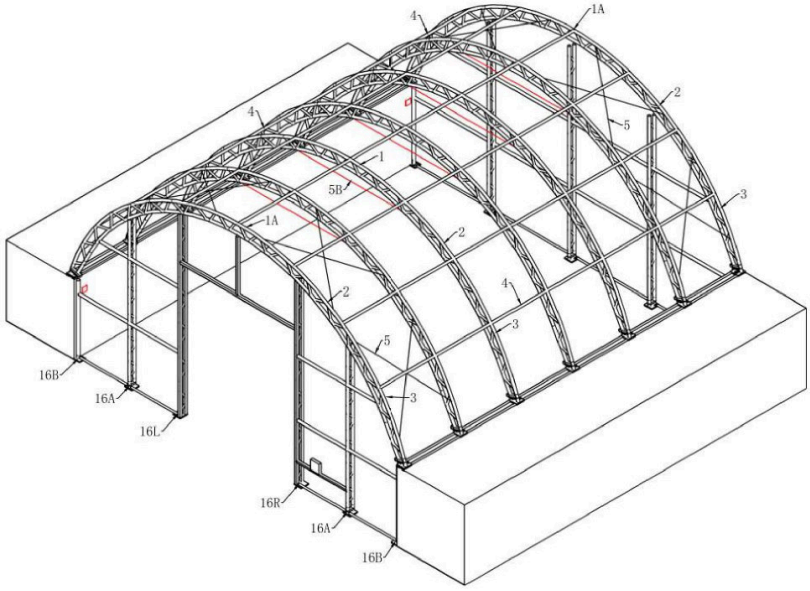
CHECK THE DELIVERY

PARTS LIST

NO.	Part name	Pcs
L1–L5	Left corner lower square profile	5/1 set
R1–R5	Right corner lower square profile	5/1 set
1	Upper arch tube	5
1A	Upper arch tube for front and rear wall	2
2	Side arch tube	14
3	Lower arch tube	14
4	Longitudinal purlin	42
5	Steel cable	16
5A	Clamp φ60	54
5B	Upper longitudinal steel cable	5
6L	Left base	7
6R	Right base	7
7	Heavy-duty ratchet with bolt	14
7A	Ratchet with hook	4
8	Tensioning tube	8/2 sets
9	Roof cover	1
9A	PVC tube 32	14
9B	PVC tube 25	55
9C	Small ratchet with bolt	150
10	Angle bracket	4
11	Rope	1
12	Bolt M12 × 40	130
12A	Bolt M10 × 90	13
12B	Bolt M10 × 30	29
13	Carriage bolt M10 × 90	77
13A	Carriage bolt M12 × 110	4
14	Connector for fixing the square tube (container hanger)	12
15	Iron plate for connecting square tubes	32
15A	Bolt M10 × 110	64

NO.	Part name	Pcs
16L	Left base plate of mechanical door	1
16R	Right base plate of mechanical door	1
16A	Middle base plate of front and rear wall	5
16B	Side base plate of front and rear wall	4
17L	Left lower post of mechanical door	1
17R	Right lower post of mechanical door	1
18L	Left upper post of mechanical door	1
18R	Right upper post of mechanical door	1
19	Left lower post at the door	1
19A	Right lower post at the door	1
20L	Left upper post at the door	1
20R	Right upper post at the door	1
21	Side post of front and rear wall	4
21A	Welded iron plate	4
22	Gate cross brace	2
22A	Gate hanger rod	1
23	Front wall horizontal tube	6
23A	Front wall side upper horizontal tube	2
24	Horizontal tube for winch (mechanical wheel)	1
25	Winch (mechanical wheel) with steel cable	1
26	Front wall lower tensioning tube	4
27	Vertical door weight tube	18/9 sets
28	Front cover (screen)	1
29	Ground stake	22
30	Rear wall lower post	3
31	Rear wall middle post	1
31A	Rear wall middle upper post	1
32L	Rear wall left upper post	1
32R	Rear wall right upper post	1
33	Rear wall horizontal tube	6
33A	Rear wall side upper horizontal tube	2

NO.	Part name	Pcs
33B	Rear wall lower tensioning tube	4
34	Welded iron plate	10
35	Rear cover (screen)	1
36	Additional door rail for HC container	2
37	Additional tube for HC container	5
38	Additional side tube for HC container	4
39	Ball bungee	2
40	Carriage bolt M8 × 80	112

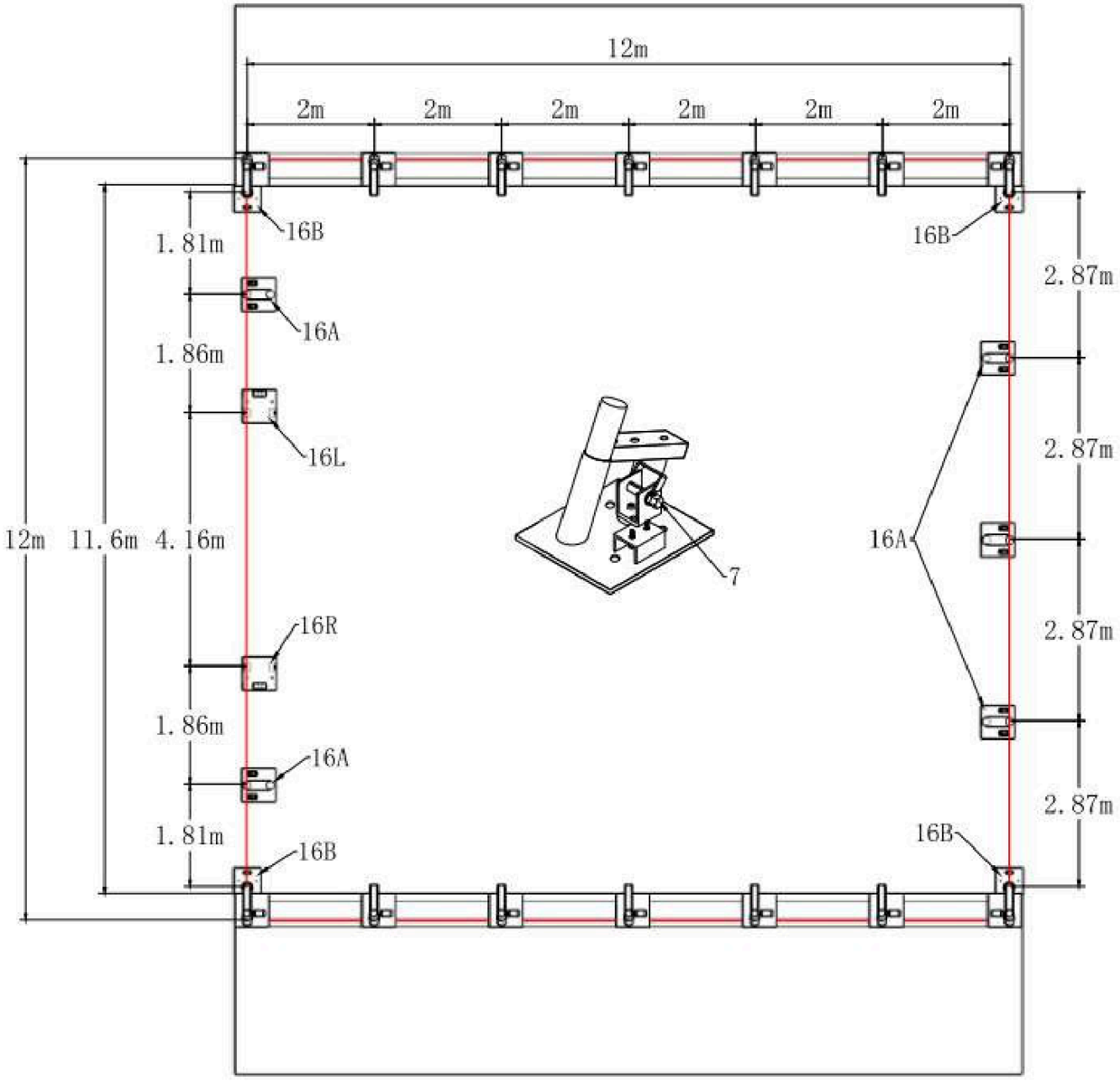


Frame sketch with part numbers

ASSEMBLY · PART A

INSTALLING THE FOUNDATIONS

Dimensions are measured from tube centre to tube centre. Check the position of the base plates against the drawing. Make sure the base is at right angles.



Drawing – base plate layout (dimensions in m), base detail with ratchet No. 7

Fix the base to the containers according to Fig. 1: place the lower square profiles L1–L5 and R1–R5 on the containers, connect them with iron plates No. 15 and bolts No. 15A and fix them to the container with connectors No. 14. Fit the bases No. 6L and 6R on the profiles and fix them with bolts No. 12.

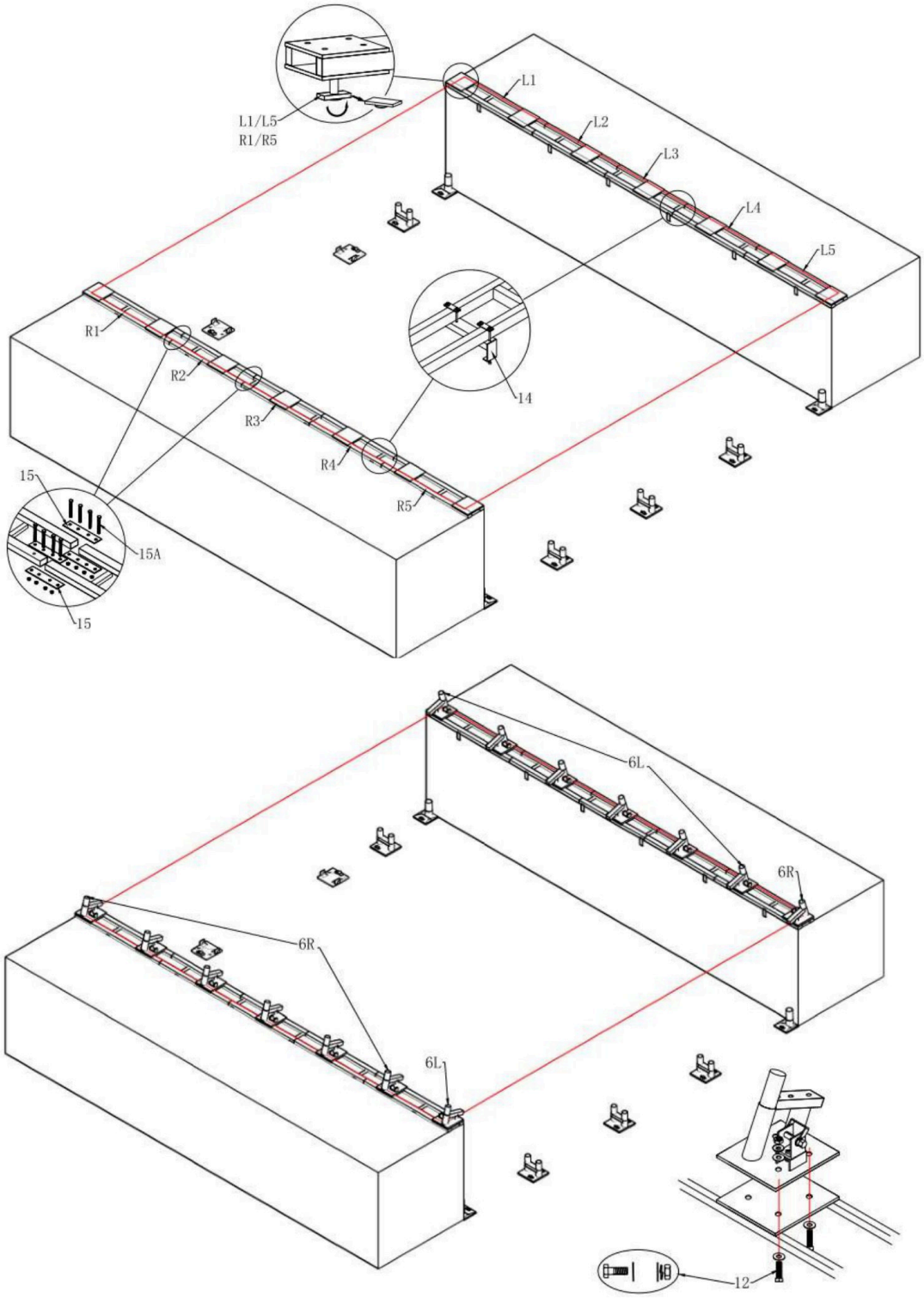


Fig. 1 – Fixing the base to the container

ASSEMBLY · PART B

FRAME INSTALLATION

1

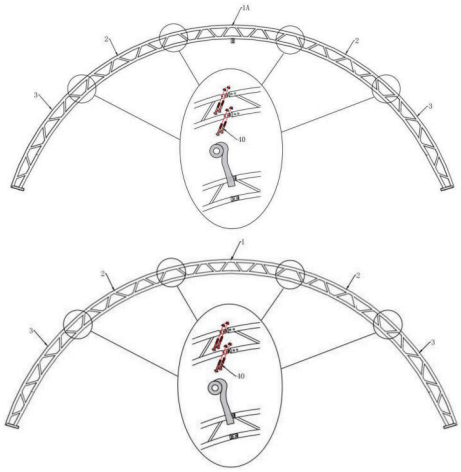


Fig. 3 – Arch assembly (top: end-wall arch with tube 1A, bottom: arch with tube 1)

According to Fig. 3, connect the upper arch tube (No. 1, at the end walls No. 1A), side arch tubes No. 2 and lower arch tubes No. 3 with carriage bolts No. 40 (M8 × 80) – this forms one arch. Mind the bolt direction: do NOT fit bolts on the top side of the arch where the cover will rest.

2

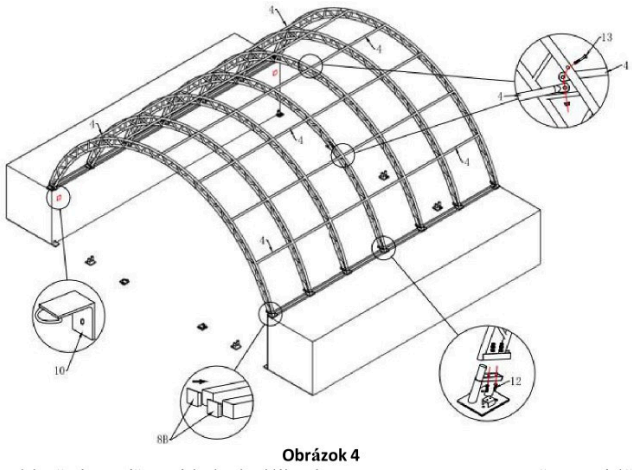


Fig. 4 – Fitting the arches and longitudinal purlins No. 4

Fit the arches into the bases and secure them with bolts No. 12. After completing the first two arches, fix the longitudinal purlins No. 4 to them with carriage bolts No. 13 (M10 × 90). Then fit the third arch into the base plate and fix further purlins. Fit the remaining arches one by one. Fit angle brackets No. 10 on the end arches and insert plugs No. 8B into the ends of the square profiles (Fig. 4).

3

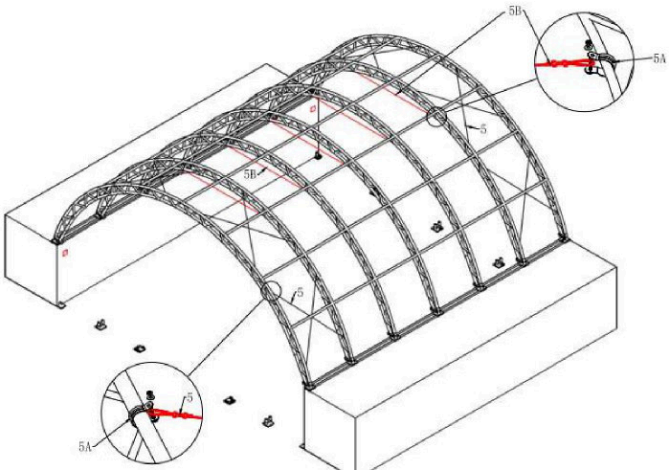


Fig. 5 – Steel cables No. 5 and 5B, clamps No. 5A

Fix the side steel cables No. 5 and the upper longitudinal steel cables No. 5B at the top of the arches to the frame with clamps No. 5A.

4

Taping the structure joints

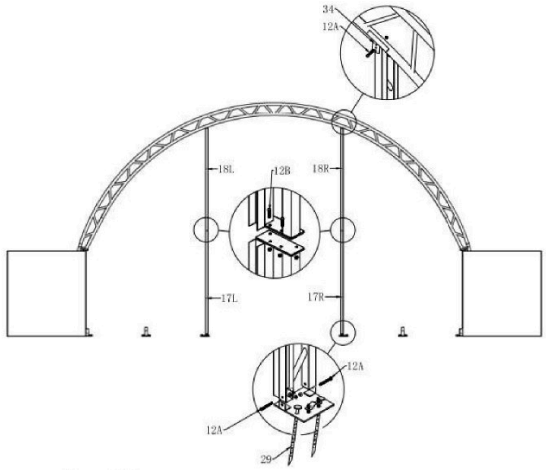
During installation, tape over the structure joints.

ASSEMBLY · PART C

INSTALLING THE FRONT WALL

Using the following drawings, pick out all front wall parts. Assemble the parts with bolts and fix them to the main frame and the container.

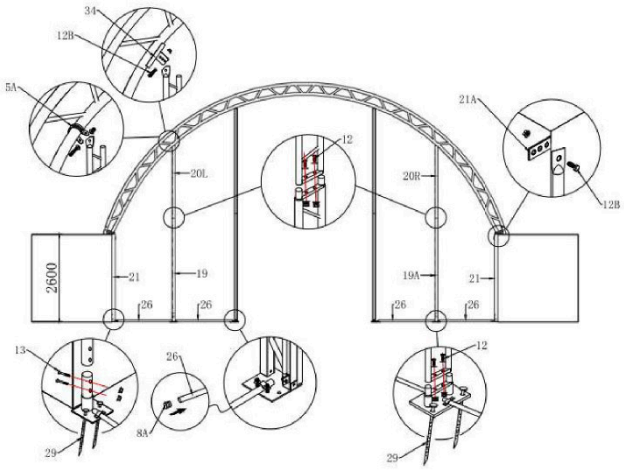
1



Drawing – mechanical door posts

Fit the mechanical door posts: connect the lower posts No. 17L and 17R and the upper posts No. 18L and 18R with bolts No. 12B. Fix the lower posts to the door base plates (anchored with stakes No. 29) with bolts No. 12A; connect the upper posts to the arch with welded plate No. 34 and bolts No. 12A.

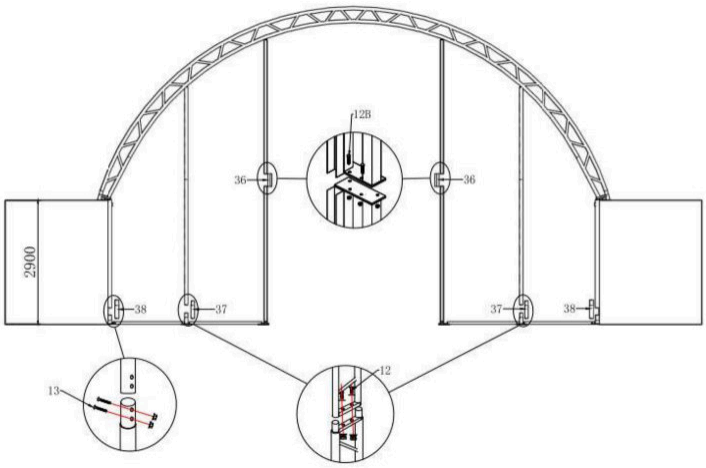
2



Drawing – front wall for container height 2 600 mm

Fit the side posts No. 21 and the door posts No. 19, 19A, 20L and 20R (joined with bolts No. 12). Secure the posts in the base plates anchored with stakes No. 29 using bolts No. 13 and No. 12. Insert the lower tensioning tubes No. 26 with plugs No. 8A between the posts. At the top, connect the posts to the arch with plates No. 34 and No. 21A with bolts No. 12B and clamps No. 5A.

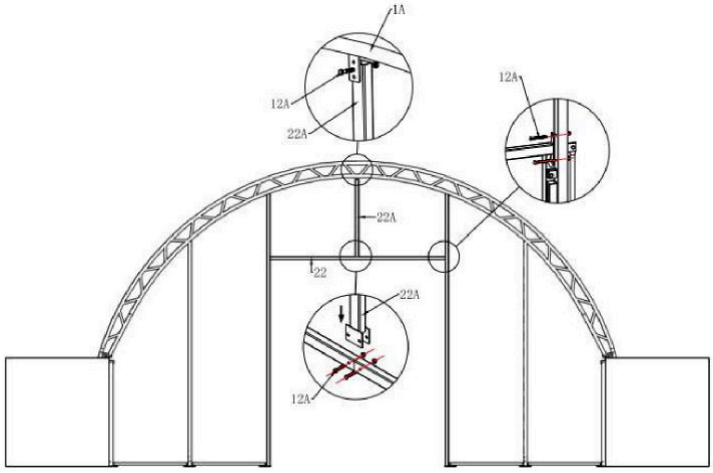
3



Drawing – front wall for container height 2 900 mm

For a container height of 2 900 mm (HC container), extend the door posts with additional rails No. 36 (bolts No. 12B), the middle posts with additional tubes No. 37 (bolts No. 12) and the side posts with additional side tubes No. 38 (bolts No. 13).

4



Drawing – cross brace No. 22 and gate hanger rod No. 22A

Fit the gate cross brace No. 22 and the gate hanger rod No. 22A; fix them to the arch (tube No. 1A) and to the door posts with bolts No. 12A.

5

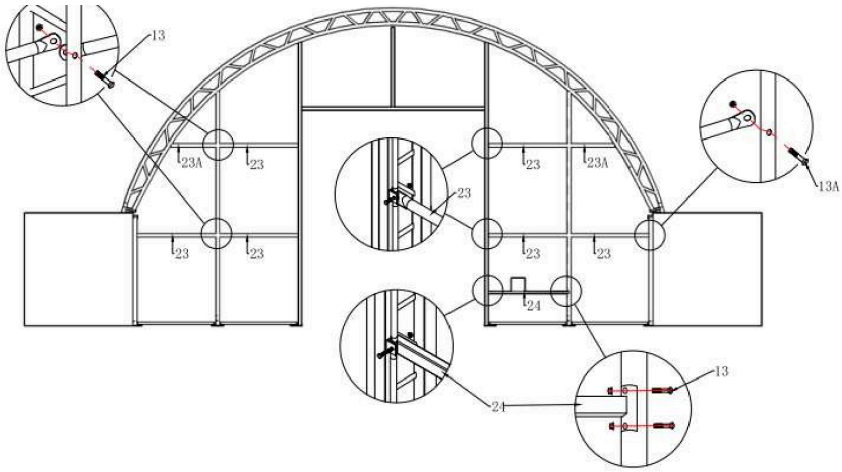


Fig. 6 – Front wall horizontal tubes

According to Fig. 6, fit the horizontal tubes No. 23, side upper horizontal tubes No. 23A and the horizontal winch tube No. 24. Fix them with bolts No. 13 and No. 13A.

6

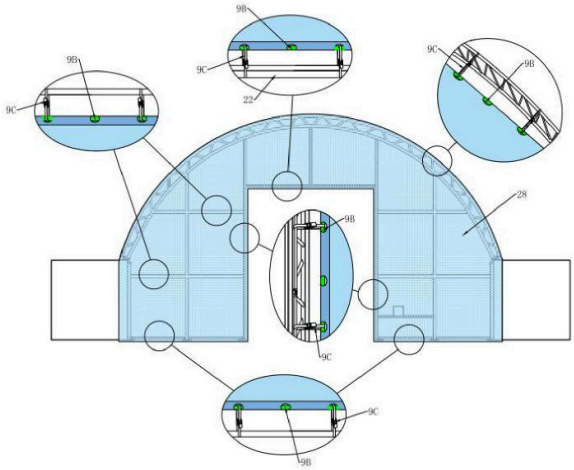


Fig. 7 – Front cover No. 28

According to Fig. 7, fit the front cover No. 28. Fix the cover to both end arches and to the front wall tubes using PVC tubes No. 9B and small ratchets No. 9C.

7

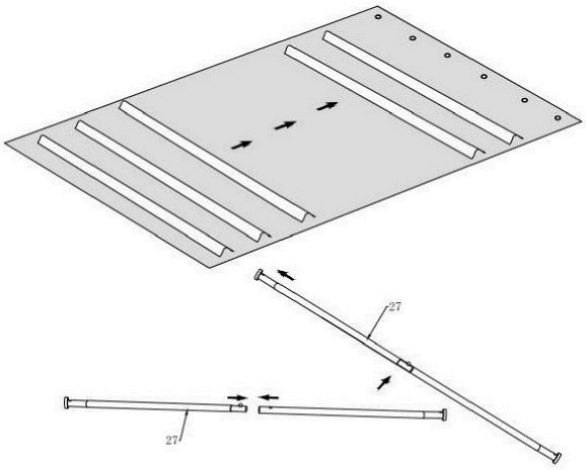


Fig. 8a – Weight tubes No. 27 in the door cover

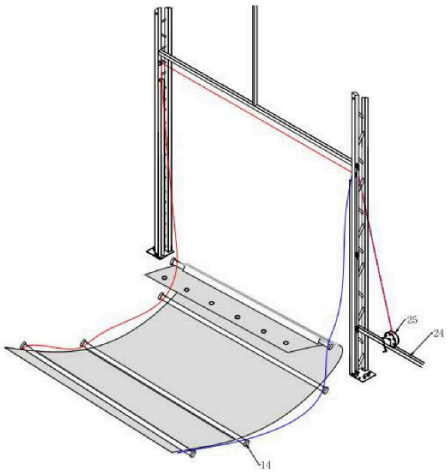


Fig. 8b – Winch cable routing No. 25

Fig. 8c – Winch

According to Fig. 8, install the winch door: insert the vertical weight tubes No. 27 (consisting of two parts) into the door cover pockets, mount the winch with steel cable No. 25 on tube No. 24 and run the cable as shown in the drawing.

8

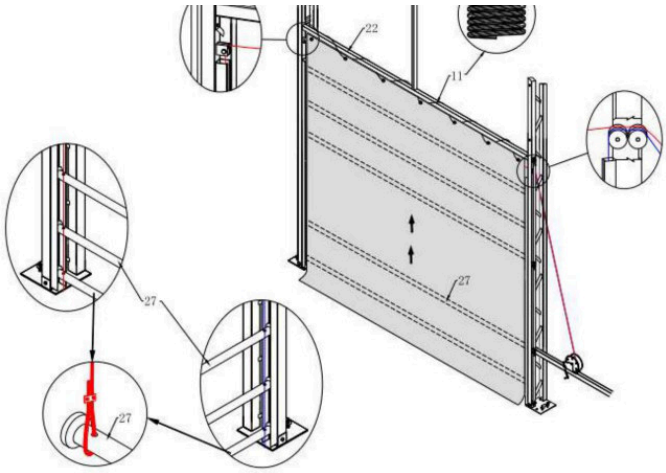


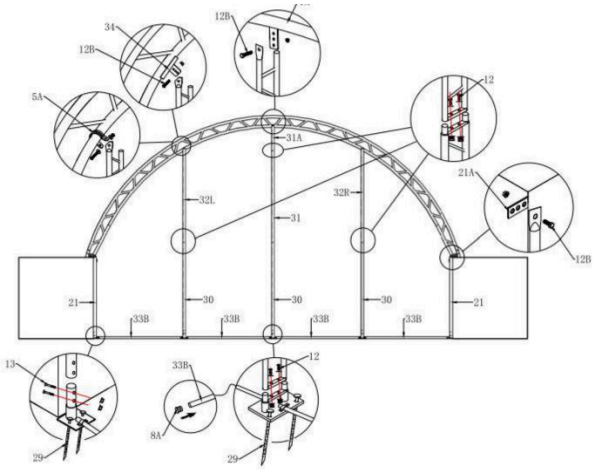
Fig. 9 – Assembled winch door

According to Fig. 9, fix the front cover to the front wall with rope No. 11. Check that the door assembly is fitted correctly according to the drawing and make sure the winch works properly when opening and closing the door.

ASSEMBLY · PART D

REAR WALL ASSEMBLY

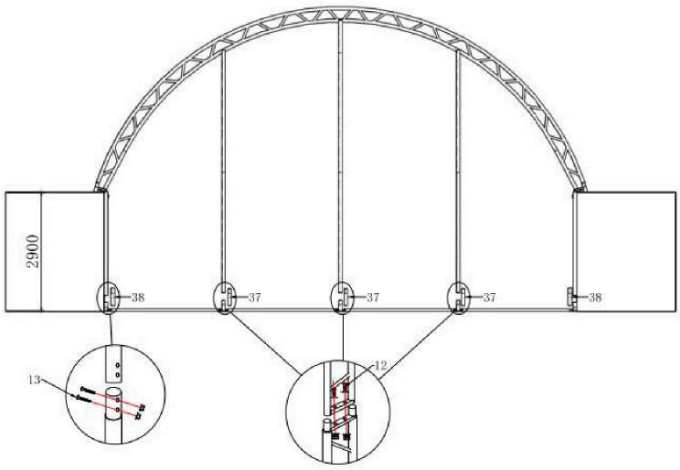
1



Drawing – rear wall frame

Fit the rear wall posts: side posts No. 21, lower posts No. 30, middle post No. 31, middle upper post No. 31A and upper posts No. 32L and 32R (joints with bolts No. 12). Secure the posts in the base plates anchored with stakes No. 29 using bolts No. 13 and No. 12. Insert the lower tensioning tubes No. 33B with plugs No. 8A between the posts. At the top, connect the posts to the arch with plates No. 34 and No. 21A with bolts No. 12B and clamps No. 5A.

2



Drawing – rear wall for container height 2 900 mm

For a container height of 2 900 mm (HC container), extend the posts with additional tubes No. 37 (bolts No. 12) and the side posts with additional side tubes No. 38 (bolts No. 13).

3

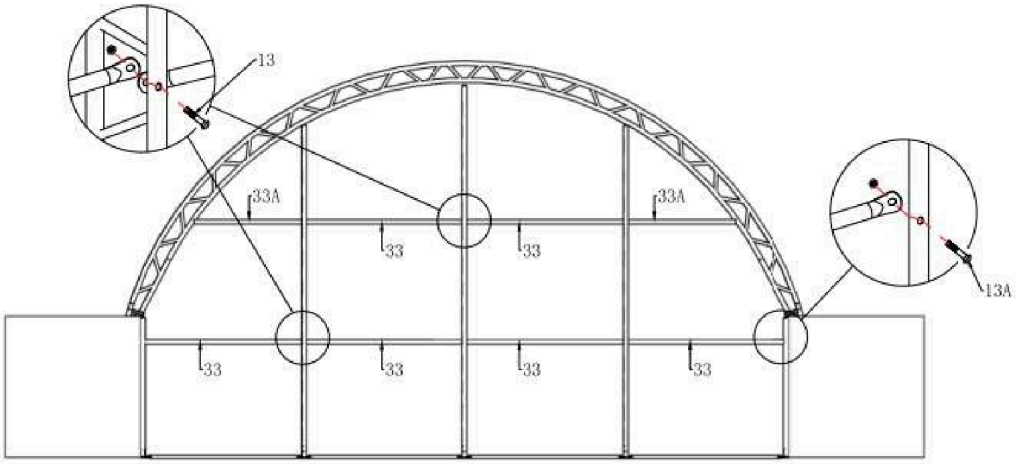


Fig. 10 – Rear wall horizontal tubes

According to Fig. 10, fit the horizontal tubes No. 33 and the side upper horizontal tubes No. 33A and fix them with bolts No. 13 and No. 13A to the main frame and the container.

4

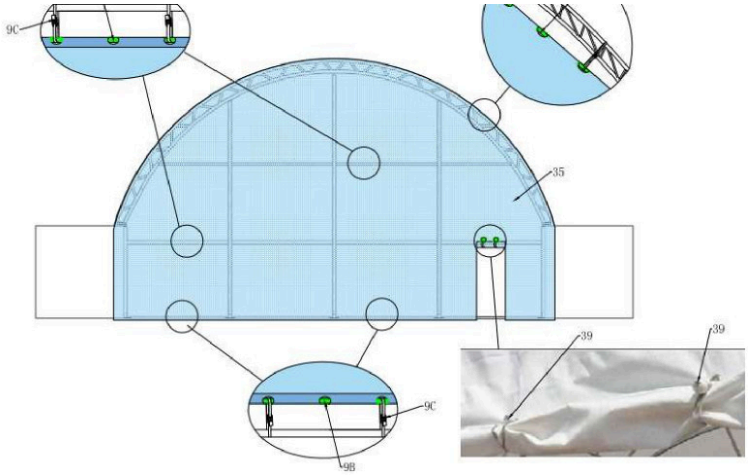


Fig. 11 – Rear cover No. 35

According to Fig. 11, fit the rear cover No. 35. Fix it to both end arches and to the rear wall tubes with small ratchets No. 9C (with PVC tubes No. 9B). Secure the rolled-up entrance cover with ball bungees No. 39.

ASSEMBLY · PART E

INSTALLING THE ROOF COVER

CAUTION

Do not install the cover on the structure in strong wind. A light breeze is best for installation: pull the cover over the arches so that the wind blows into it, filling it like a sail.

1

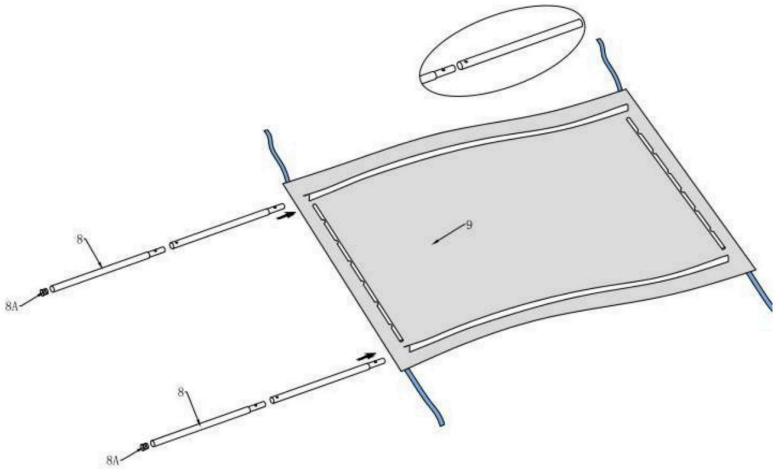


Fig. 12 – Tensioning tubes No. 8 in the roof cover

According to Fig. 12, before installing the roof cover No. 9, insert the tensioning tubes No. 8 into its pockets and close the ends with plugs No. 8A.

2

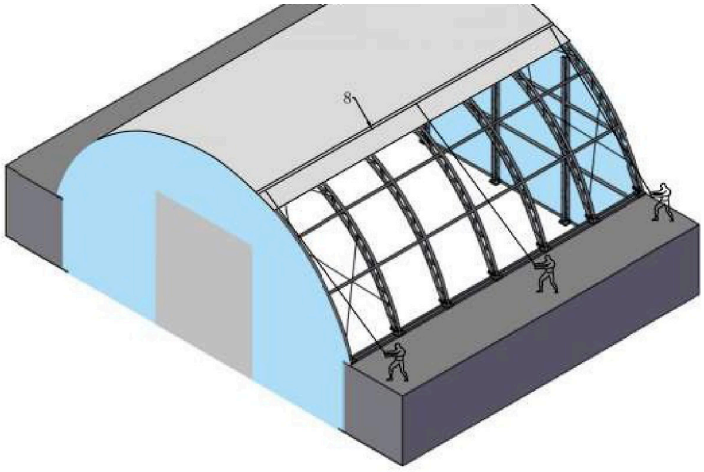


Fig. 13 – Pulling the roof cover over

According to Fig. 13, lay the roof cover on the frame EVENLY, CAREFULLY AND SLOWLY. Align the cover so that it is square and evenly centred on the frame.

3

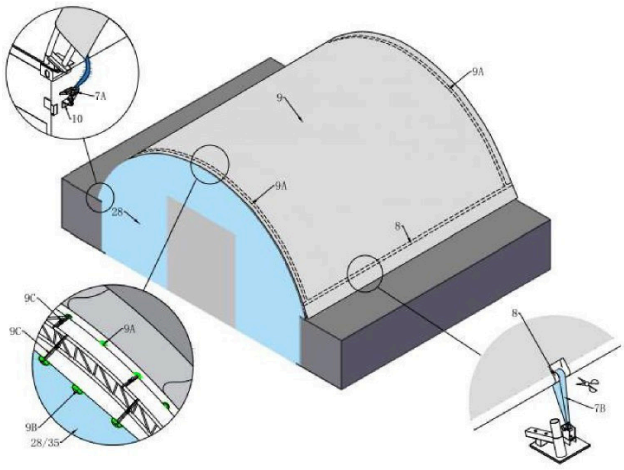


Fig. 14 – Fixing and tensioning the roof cover

According to Fig. 14, fix the cover to both end arches with small ratchets No. 9C and finally attach the roof cover to the hooks on the ratchet straps (ratchets with hook No. 7A on angle brackets No. 10; tensioning tubes No. 8 with straps No. 7B to ratchets No. 7 on the bases).

IMPORTANT

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

MAINTENANCE

MAINTENANCE AND USE

- Adjust the roof cover tension every month.
- 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.

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