

# SHELTER ASSEMBLY MANUAL

20x20x6.5 ST Container shelter



## PARTS LIST

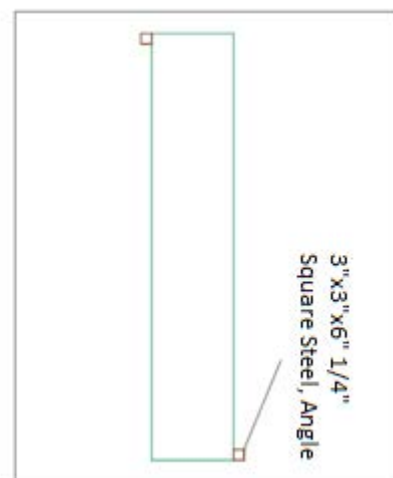
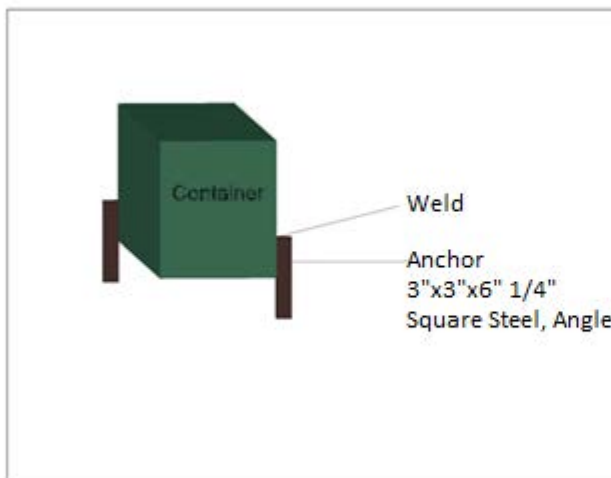
Part Code	Description	Qty
L1	Left base plate	5
R1	Rigth base plate	5
1	Three-way fitting	2
2	Four way fitting	3
3	Top bent tube	10
4	Sidewall bent tube	10
5	Top roof purling	4
6	Connection purlin	16
7	φ25mm Lower tensioning tube for roof cover	2 Groups
8	Angle seat for roof cover	4
9	Roof cover	1
10	φ25mm Plastic Plug	4
11	Ropes	1 bundle
13	Bolts M8x70	80
14	Butterfly bolt	8
14A	Ratchet strap	10
14B	1.5" Ratchet (With Screws)	10

## ANCHORING THE CONTAINER

Make sure you have:

- Welder.
  - Cement.
  - Four 3" x 3" x 6 feet 1/4" Square steel angle
1. As shown in the diagram 1, make a 3 ft deep hole right beside one of the front and opposite rear corners of the container, in which the 6ft square steel will be installed.
  2. Insert the 6ft square steel into the hole, making sure 3ft is below the surface completely laying on the side of the containers.
  3. Weld the square steel to the 2 containers.
  4. Pour cement in the holes to make sure the square steel won't move.
  5. Repeat the previous steps on the corners located in the opposite rear side.

Securing the containers to the floor is crucial, that way the containers won't shift under harsh weather conditions, thus avoiding the shipping container canopy roof top of getting damaged.



## Highly Recommended

1. All container canopy covers need to be removed during windstorm of 60 mph, leaving frame assembled. **Customer responsibility.**
2. All container canopy covers need to be removed before a snowstorm of 1-2 inches (for single truss Shipping container roofs) and 3-4 inches (for double truss Shipping container roofs), leaving the frame assembled. **Customer responsibility.**
3. It is highly recommended for customers who live in snow states and cities to use double truss framing instead of Single truss framing. **Customer responsibility.**
4. It's the owner's responsibility to shovel snow off the canopy rooftop.
5. All containers need to be anchored to the ground in each opposite corner sides. **Customer responsibility.**
6. All of our products fall under the temporary structure category/storage ragtops.

**Return Policy:** Any product can be returned within 7 calendar days after arrival; shipping expenses are not refundable. For more information, please refer to the **Return and refund policy** page.

### About lifespan:

Tarp lifespan: 7-10 years\*

Frame Lifespan: +15 years\*

***\*The term "lifespan" refers to the durability of the materials themselves, not to the structural integrity of the canopy once assembled.***



## **SPECIFICATIONS**

Width: 20 ft Length: 20 ft Height: 6.5 ft

## **IMPORTANT: READ MANUAL FIRST**

Improper site preparation, assembly and maintenance may invalidate warranty and cause unnecessary and costly mistakes. If you have any questions, contact your local dealer.

For an easy assembly process, we have identified each individual component with the part code as indicated in the parts list. Please refer to the part code numbers and drawing to ensure problem-free assembly.

It is necessary to tighten the roof fabric enough to avoid “hammocks” on the roof; also re-tighten once or twice again after a few months of use. This is important when assembled during cold seasons (autumn and winter) because the fabric gets stiff in these weather conditions. When the weather conditions become warmer, the fabric loosens and needs to be re-tighten

It is the owner’s responsibility to take off snow immediately, otherwise it will slide off on its own.

## **READ ALL INSTRUCTIONS BEFORE ASSEMBLY**

1. Keep the work area clean. Accidents are more likely in cluttered areas. Do not set up near snow drifts, in slippery places, in high winds, or wet locations.
2. All children should be kept away from the work area.
3. Don’t overreach. Always keep proper footing and balance.
4. Do not assemble under the influence of alcohol or drugs. Read warning labels on medication prescriptions to determine if your judgment or reflexes are impaired while taking them. If there is any doubt, do not assemble.
5. Be aware of possible windy conditions; fasten the bases in concrete if these conditions are likely to occur. Remove the cover during hurricanes.
6. Be careful with power and heat sources. Do not keep heat sources near the tarpaulin. Do not expose to open flame.
7. Be aware of personal safety during assembly and use. Be careful not to pinch your fingers with clips and tubes when assembling: When using, make sure there is adequate ventilation for any dangerous fumes.

## EQUIPMENT AND TOOLS FOR INSTALLATION

1. Measuring tape
2. Alignment string
3. Step ladder
4. Welder
5. Sledgehammer
6. Wrench
7. Scissors

## INSTALLATION PROCESS

### A - BASE PLATES INSTALLATION

Please refer to the Figure 1 to place the base plates.

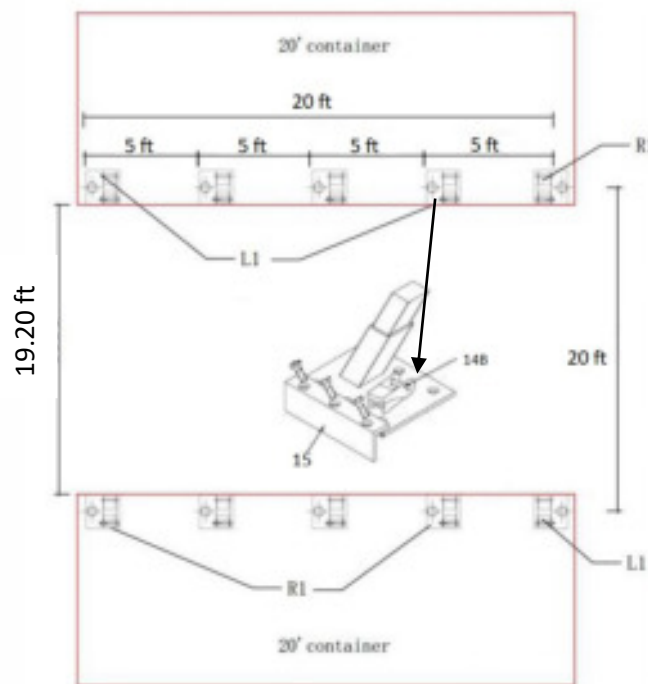


Figure 1

1. The measure must be taken from center to center of the base plates. Refer to the diagram above and confirm the place of the base plates. ENSURE THAT THE FOUNDATIONS ARE SQUARE.
2. All the base plates need to be welded on the Containers.

## B - FRAME INSTALLATION

(Please refer to figure 2 for the entire process)

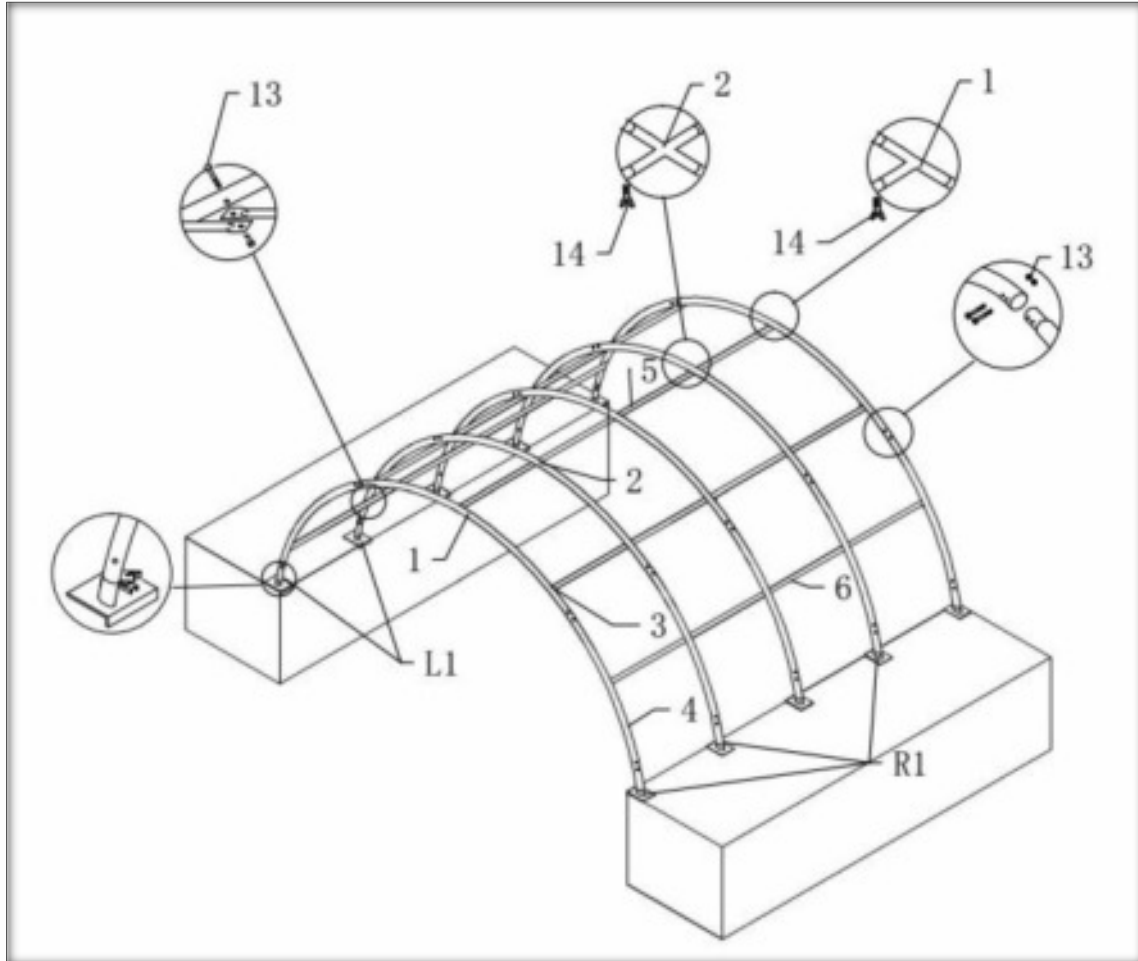


Figure 2

1. Connect the Three-way fitting (part code 1), the Top bent tube (part code 3), and the Sidewall bent tube (part code 4) with the Bolts M8x70 (part code 13); these make the first and last group of arches. Connect the Four-way fitting (part code 2), the Top bent tube (part code 3), and the Sidewall bent tube (part code 4) with the Bolts M8x70 (part code 13); these make internal group of arches. Please NOTE the direction of the bolt. **DO NOT** install the bolts on the top of the truss where the fabric will rest.
2. Insert one end of the assembled arch into one base plate and force the other end of the arch into the opposite base plate. Secure the arches in the base plates using the bolts.

3. After installing the first two arches, connect the Connection purlin (part code 6) into the arches using the Bolts M8x70 (part code 13). Insert the Top roof purling (part code 5) into the Three-way fitting (part code 1) and the Four-way fitting (part code 2) correspondingly using the Butterfly bolt (part code 14). There are 4 pieces of Connection purlins (part code 6) and 1 piece of Top roof purling (part code 5) between each arch.
4. Then install the third arch into the base plate and connect the purlins.
5. Assemble the arches one by one until the frame is finished.



## C - ROOF COVER INSTALLATION

**NOTE:** DO NOT install the cover onto the frame of your building in high wind conditions. A slight breeze is the most advantageous condition for cover installation. To take advantage of the breeze, pull the cover up over the arches with the breeze blowing in the cover like a sail filled with air.

1. Insert the  $\phi 25\text{mm}$  Lower tensioning tube for roof cover (part code 7) into the pockets on the end of the roof cover (part code 9), then put the  $\phi 25\text{mm}$  Plastic Plug (part code 10).

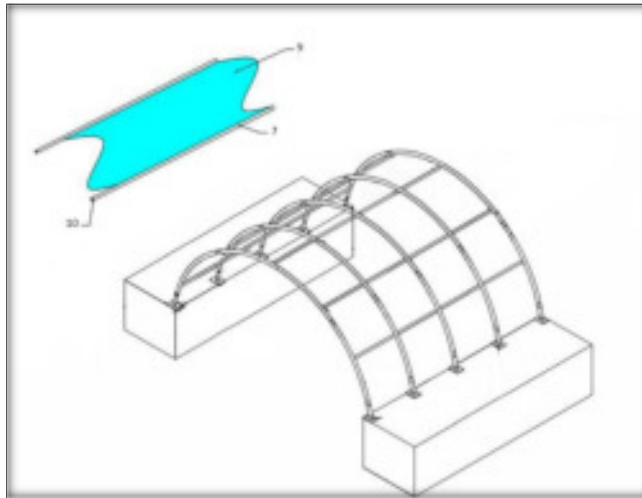


Figure 3

2. Put the Roof cover (part code 9) **EVENLY, CAREFULLY AND SLOWLY** atop the frame. Adjust the cover so that it is square and evenly centered on the frame, as shown in figure 6.

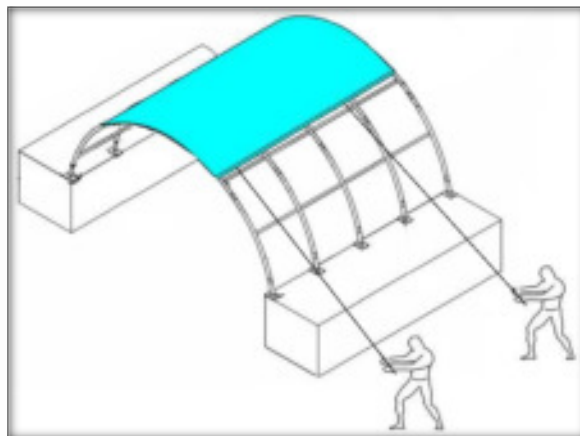


Figure 4

- On the roof cover, cut pockets over each 1.5" Ratchet (part code 14B) on the base plates and use the Ratchet strap (part code 14A) to tie down the Lower tensioning tubes as shown in *Figure 8*.

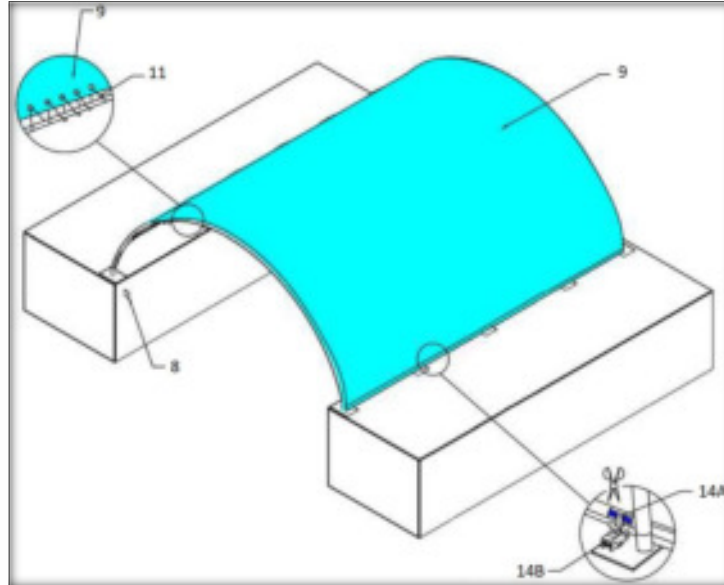


Figure 5

- Weld the Angle seat for roof cover (part code 8) on each container and use Rope (part code 11) to knit the cover on the two external arches (refer to figure 7) and tie the Ropes to the Angle seat for roof cover.

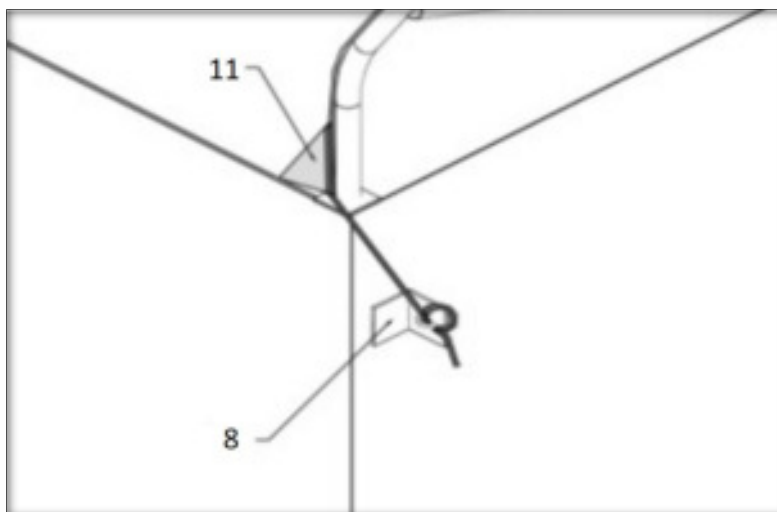


Figure 5

Please, check our installation images and videos section by clicking the following link:  
[https://drive.google.com/drive/u/3/folders/1p9FLejo-JlrkJPx5\\_Kp-hDcssOph2dWa](https://drive.google.com/drive/u/3/folders/1p9FLejo-JlrkJPx5_Kp-hDcssOph2dWa)



**NOTES:**

- DO NOT LEAVE THE ROOF COVER UNATTACHED UNDER ANYCIRCUMSTANCES until the final assembly and tightening has been completed.
- The process is quite easy, but some tightening adjustments will be necessary to get a flat, tensioned roof cover. Please adjust the roof cover every month.
- Wrap tape around the gap between the steel after installing.

