KIT BUILDING SYSTEMS

MODEL:509824

W15.24xL30xH7.3M

INSTALLATIONS INSTRUCTIONS

KIT BUILDING SYSTEMS

Installation Instructions

Congratulations on your purchase of our instant shelter. This unit is a combination of excellent manufacturing and design. It is comprised of a rigid frame and a durable cover. For easy assembly, we have marked all the parts with codes, with proper installation, use and maintenance, your unit will provide many years of good and suitable service.

Tools Required

The following hand tool will be needed for proper installation of your new building:

- 12mm, 14mm, and 17mm open end wrenches
- 12mm, 14mm, 17mm sockets or box wrenches
- Large flat head screwdriver
- 2lb maul or sledgehammer
- 4ft level
- 14ft step ladder
- Stake and string for aligning base plates and frame

Assembly Procedure

1. Prepare location and place all unit boxes near location sight. Perform an inventory check before beginning, to be certain all components are available for installation.
2. Secure base plate flanges to base surface.
3. Assemble every group of the arch.
4. Begin frame assembly with front end arch, first interior arch, purlins, etc.
5. Add to assemble other groups of arches.
6. Install main cover over frame.
7. Install end cover over end panels.

Read all the detailed instructions and notices in the following assembly instructions!

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Maintenance and Care

Annually or more often, the unit should be completely inspected internally and externally to make certain the unit remains properly installed and secured. Particular attention should be paid to:

- Hardware - check all carriage bolts and hardware connectors to be certain they are in place and tightened.
- Weather trends - The unit will strain against the base plate flange under windy conditions, pegs hardware, connection to frame members should be maintained tight and depth of pegs should be checked to be certain they remain deeply and firmly set.
- Snow Accumulation - All snow accumulation on the main cover should be removed as soon as possible. Tap the main cover from the inside with a broom or soft brush to clear cover.
- Main Cover Lacing - The poly rope that secures the main cover to the bottom rail of the frame assembly should be checked, and adjusted as needed. The tension on the main cover should be uniform from end and side to side. Rope ends must be tied off onto the frame members at the ends on each side.
- Cleaning - Cover and doors can be cleaned with a mixture of light detergent and water. A soft bristle brush with the mixture can be used to loosen any hard dirt, mould, or build up on the cover. After cleansing, the cover should be rinsed thoroughly to avoid any chemical reaction from residual detergent. Allowing dirt and debris to sit on cover over an extended time will damage cover irreparably.
- Severe Weather - in preparation for inclement weather, completely secure the door of your buildings portable building.

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Parts List

Code	PART LIST	Quantity
1	Top roof truss	9
1A	Top roof truss for front and back panel	2
1B	Top roof truss for steelwire installation	2
2	Upper roof truss	18
2A	Upper roof truss for front panel	2
2B	Upper roof truss for back panel	2
2C	Upper roof truss for steelwire installation	4
3	Lower roof truss	18
3A	Lower roof truss for front and back panel	4
3B	Lower roof truss for steel wire installation	4
4	Shoulder truss	22
4A	Shoulder truss for front panel	2
4B	Shoulder truss for back panel	2
5	Sidewall truss	22
5A	Sidewall truss for front and back panel	4
6L	Base plate for left corner	2
6R	Base plate for right corner	2
7L	Base plate for left sidewall	11
7R	Base plate for right sidewall	11
8	Base plate for front and back panel	5
9	Horizontal tubes	132
10	Susperder tube upon the door	2
13	Upper vertical tube for front panel	2
14	Lower vertical tube for front panel	2
15	Rails beside the door	2
16	Upper rails in the end of front panel	2
17	Lower rails in the end of front panel	2
18	Door beam	1+2
19	Vertical tube for door frame	1
20	Tensioning tube for roof cover	2sets
21	Tesnsioning tube for cover of front panel	2sets
21A	Tesnsioning tube for cover of back panel	1set
24	Slanting support tube	12
24A	Clip for slanting tube	24
25	Stake pegs	92
26	Hexagon bolts M10X75(for truss connection)	630
27	Hexagon bolts M10X60(for horizontai tube)	150
28	Hexagon bolts M10X85(for front and back panel)	60
29	Hexagon bolts M10X30(for clip and connectors)	50
29A	Hexagon bolts M10X75/10x120(for man-door)	2+4
29B	Self tapping screw	100
	Hexagon bolts M10X75(for metal shutter frame)	12
30	Ratchets	26
30A	Ratchets for plastic tube	40
31	Band for #30	26
31A	Band for #30A	40
32	Roof cover	1
33	Cover for front panel	1
34	Cover for back panel	1

36	Anti-wear sheet	104
37	Rope for cover installation	30
38	Plastic cap	10
40	Steelwire for sidewall	20sets
40A	Steelwire for front and back panel	4sets
40B	Steelwire for roof	32sets
40C	Steelwire for arch tensioning	11sets
41	Plastic tube for roof cover tensioning	2sets
42	Upper vertica tube in middle of back panel	1
43	Lower vertical tube in middle of back panel	3
44	Upper vertica tube in side of back panel	2
45	Upper vertical tube in ends of back panel	2
46	Lower vertical tube for back panel	5
47	Middle rails in back panel	8
48	Upper rails in side of back panel	2
49	Lower rails in side of back panel	2
50	Door frame	2sets
52	Suspender tube in side for frame of metal shutter	2
53	Vertical tube for man-door	1
54	Suspender tube for metal shutter frame	2
55	Man door	1
55A	Square tube for man-door	1
56	Metal sheet for cover installation	1set

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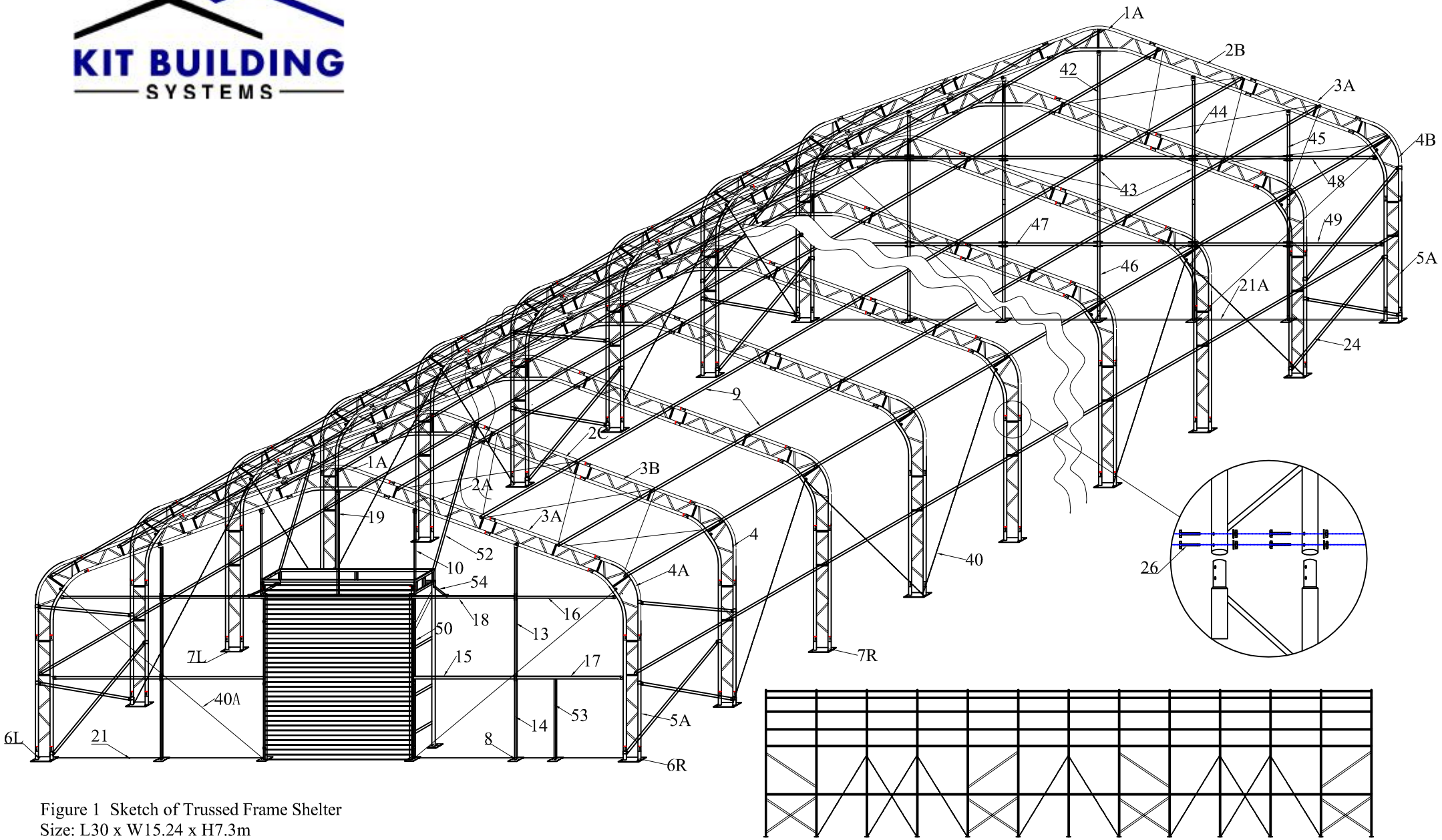


Figure 1 Sketch of Trussed Frame Shelter
Size: L30 x W15.24 x H7.3m

Sit the building boxes in the chosen location. Remove all the components from packaging to ensure all components are present by checking with the Part List.
The Shelter must be secured to a firm surface that can receive and retain pegs firmly in position. The shelter should be installed on FIRM GROUND, not on SWAMP, SOFT/WET GROUND. The Base Flanges must be secured so they cannot be moved.

Step #1 --ARCH ASSEMBLY

Assemble ALL the arches including the base plates, and LAY them **on the ground** first. DO NOT erect them until you finish all the arches assembly.

Each arches consist of:

One Top roof tube (Part # 1/1A), Two Roof curving tube (Part # 2/2A/2B), Two Roof curving tube at shoulder height (Part # 3/3A/3B), Two Sidewall tube (Part # 4/4A/4B), Two Base plates (Part #6L/6R/7L/7R) Connect the arches by Using the hexagon bolts with washers and nuts(part # 26) through predrilled holes in frame members.

NOTE: Please notice that the part code of the arch sections. The sections of middle,front and back arches are not the same. Check with the Part List and the Sketch Figure.

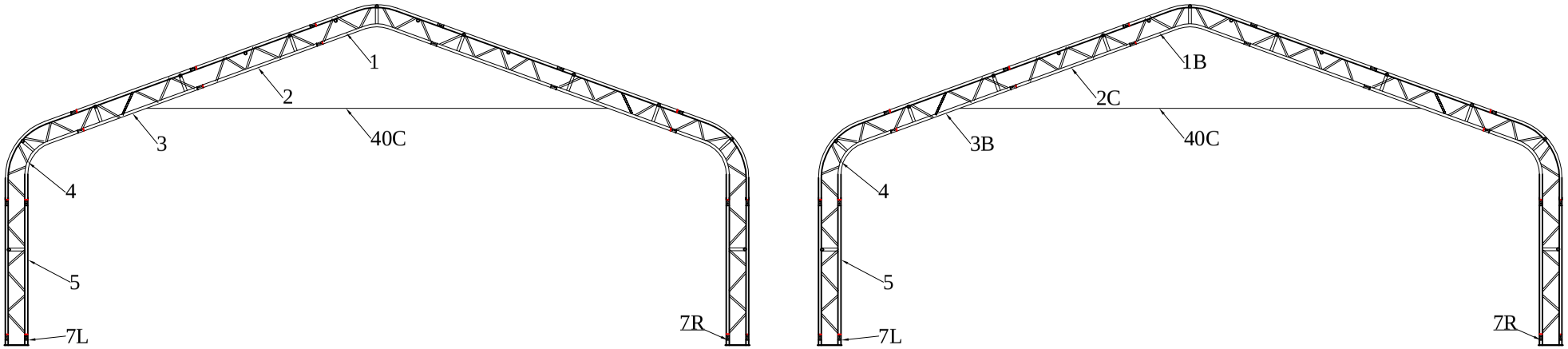


Figure 2 The middle arch

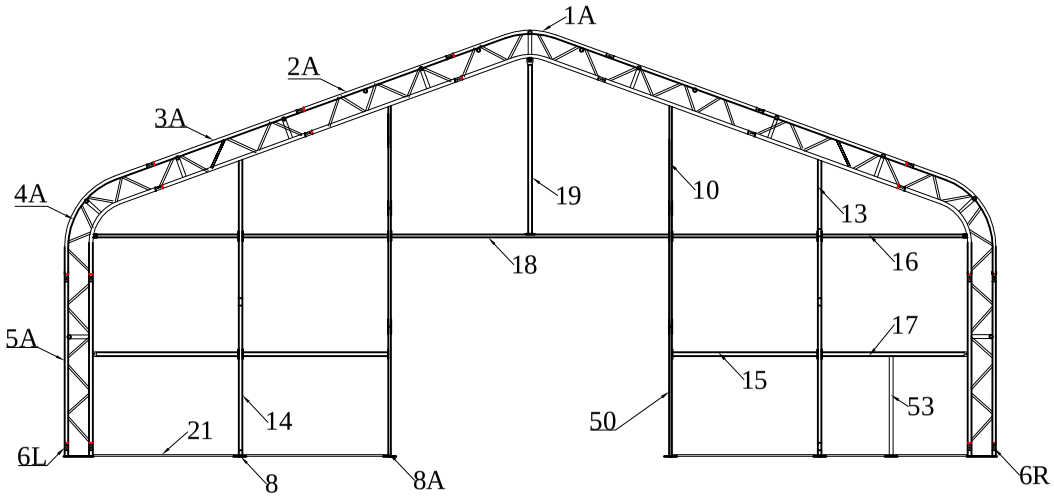


Figure 3 Front Panel Arch

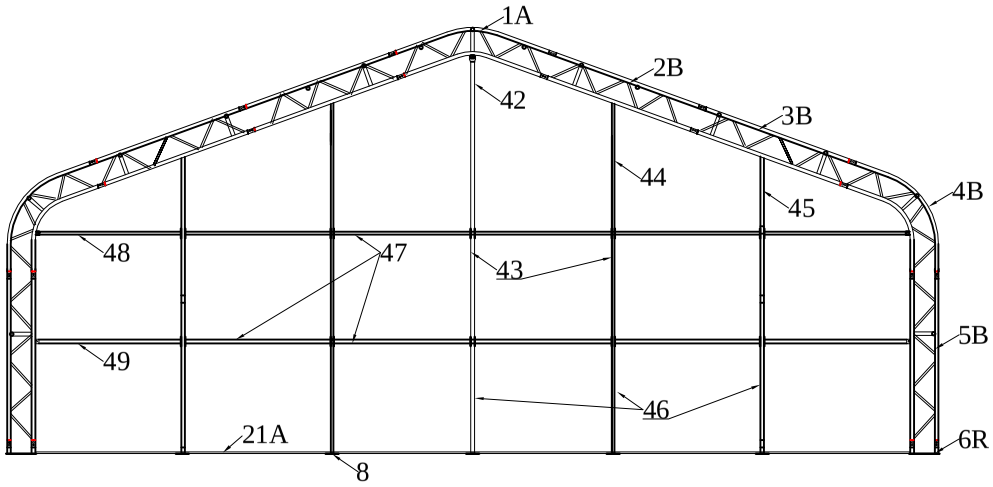


Figure 4 Back Panel Arch

Step #2 --ERECTING ARCHES

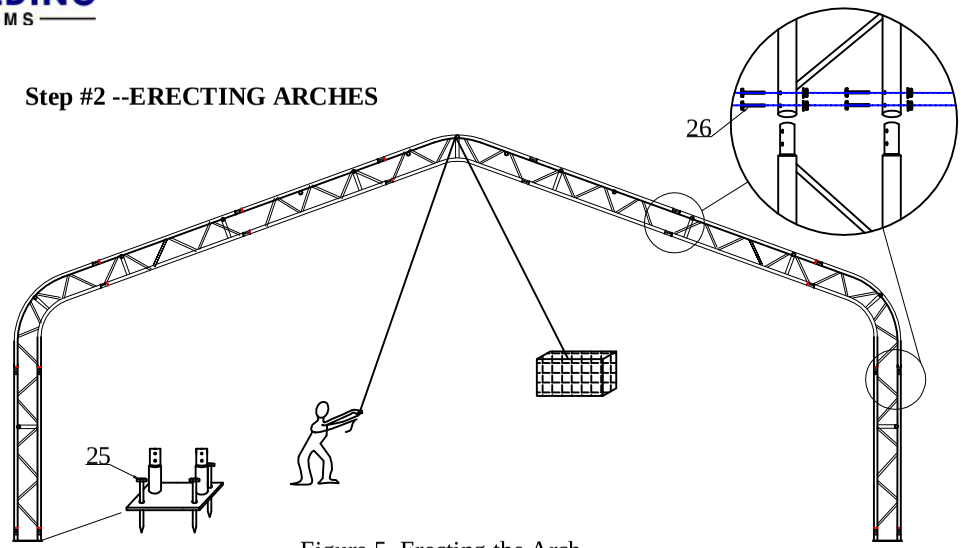


Figure 5 Erecting the Arch

As figure 5 shows, erecting the front arch by using ropes, tie and secure the rope on some heavy object to secure the arch standing temporarily. Then secure the base plates to the ground by using stake pegs(part #25).

Step #3 --Assembling Roof Purlins

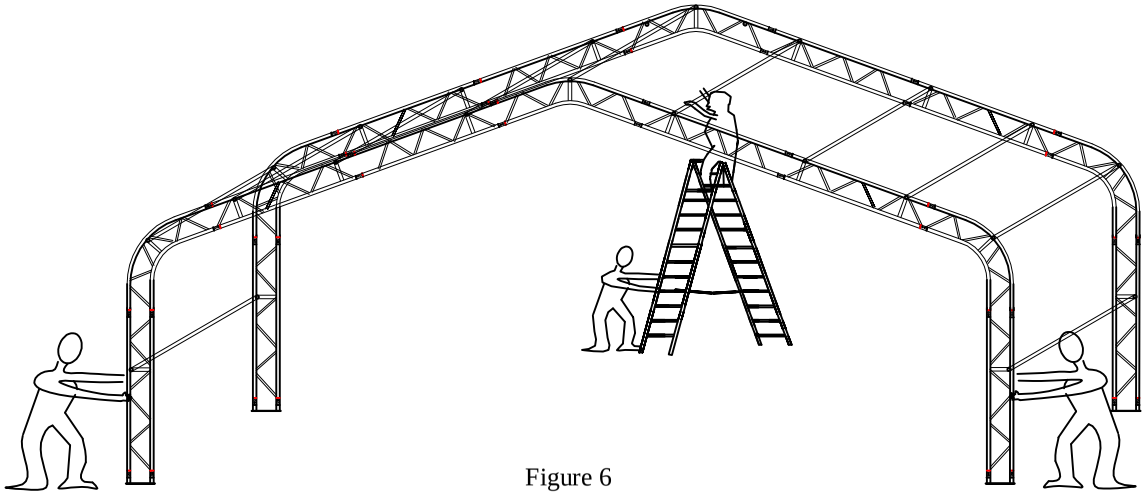


Figure 6

Immediately after erecting the front arch, erect the 2nd arch in the same way. Then connect the two erected arches using Roof Purlin Tubes as figure 6 shows. Secure the Roof Purlin tubes into place using carriage bolts and nuts (part #27).

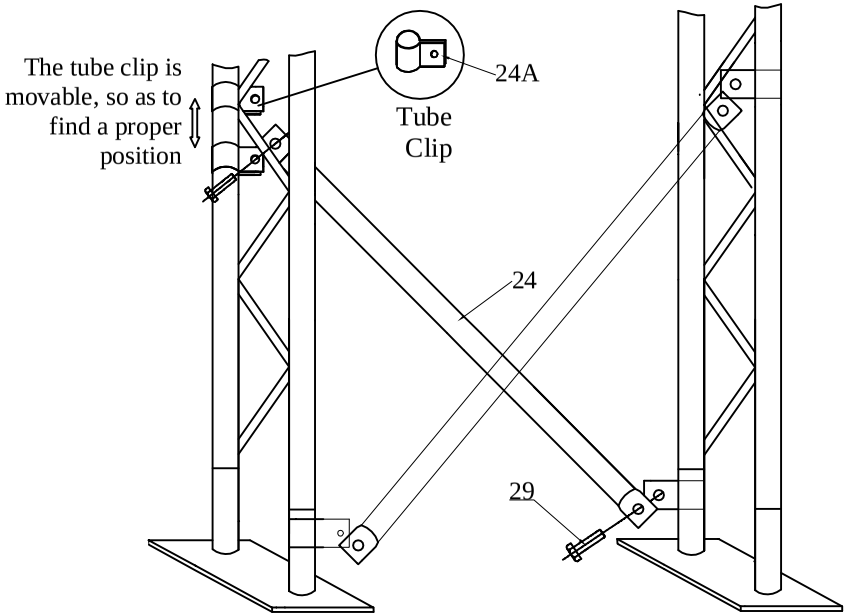


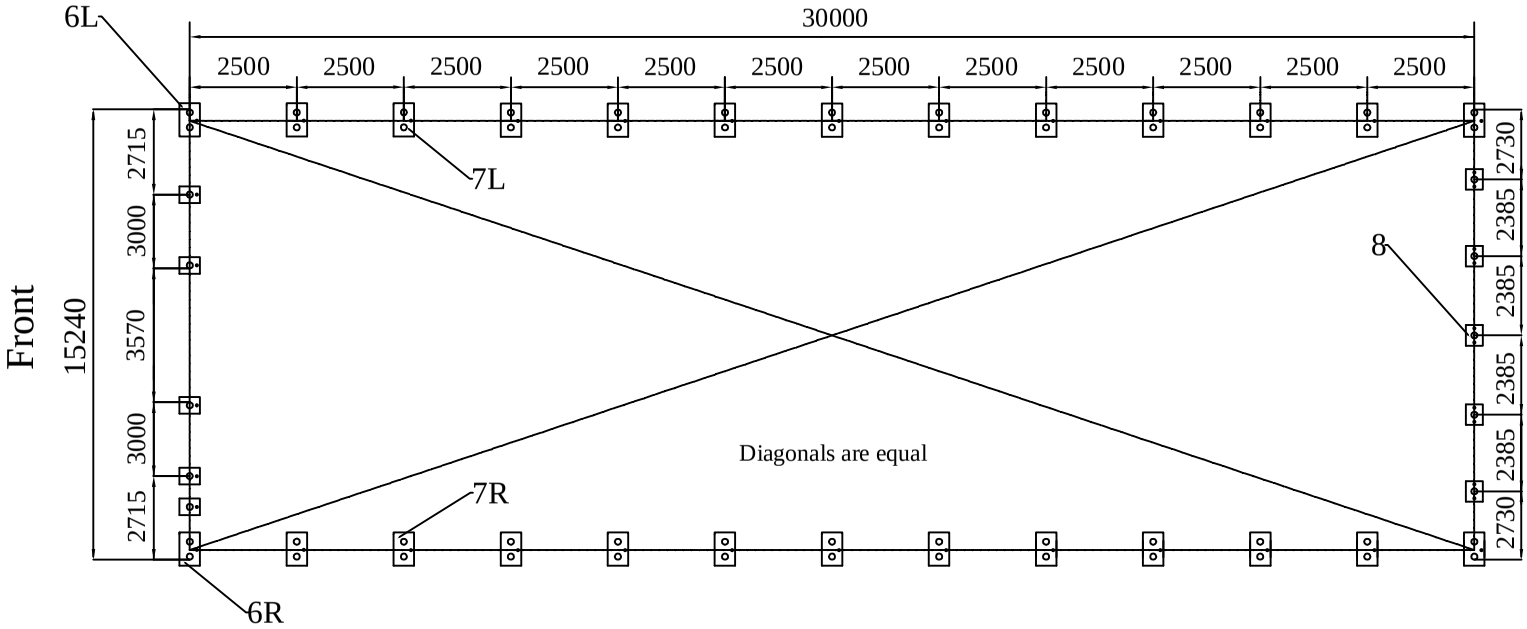
Figure 7: Wind Brace Supports(part 24)

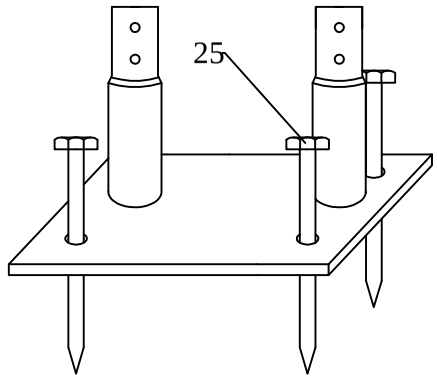
Next install the Wind Brace supports that connect the Front Arch to the first Interior Arch. The Wind Braces give the arch assemblies strength as a unit.Use Bolt M10X30 (Part #29) at the end of each Wind Brace Support to secure.

Continue to install other Arches Assemblies in the same manner. Overlap pinched ends of Roof Purlin onto same carriage bolts inside frame assembly.

Next check entire frame assembly for square and plumb. Adjust Wind Braces and Roof Purlin as necessary to being frame into plumb. Next tighten frame bolts adequately.

Position of Base Flanges





The Shelter must be secured to a firm surface that can receive and retain pegs firmly in position. The shelter should be installed on FIRM GROUND, not on SWAMP, SOFT/WET GROUND. The Base Flanges must be secured so they cannot be moved.

Step #4 --WIND STABILIZERS CABLES AND TURNBUCKLES

On each side of frame, between the first and last two groups of arches, and on the front&back panel frame, cables with turnbuckle are provided to align and strengthen frame before installing cover. After installing all cables, tighten the turnbuckles slightly to adjust the arches vertically and to add rigidity.

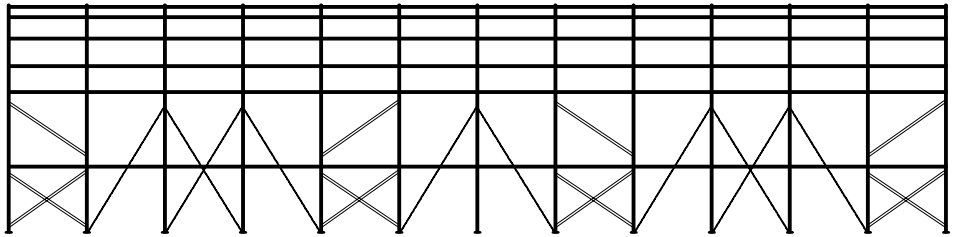


Figure 8 The position of windstabilizers(turnbuckle and cable) at the sidewall.

Step #5 --BOLT RATCHETS TO BASE FLANGES

Attach Tie Down Ratchet to each Base Flange along Sidewall. Use two Bolts M8x15 for each sidewall ratchet to secure to Base Flange.

ROOF COVER INSTALLATION

Step #6 --POSITION ROOF COVER

As figure 9 shows, when ready to install Roof Cover, unpack cover and lay parallel to building frame on one side. Cover must be pulled over top of frame assembly without being snagged or stressed on any frame members. Use multiple ropes over top of frame as shown in picture below. Having another person inside frame on a ladder to assist in getting Roof Cover over frame will insure the cover will go on without any damage.

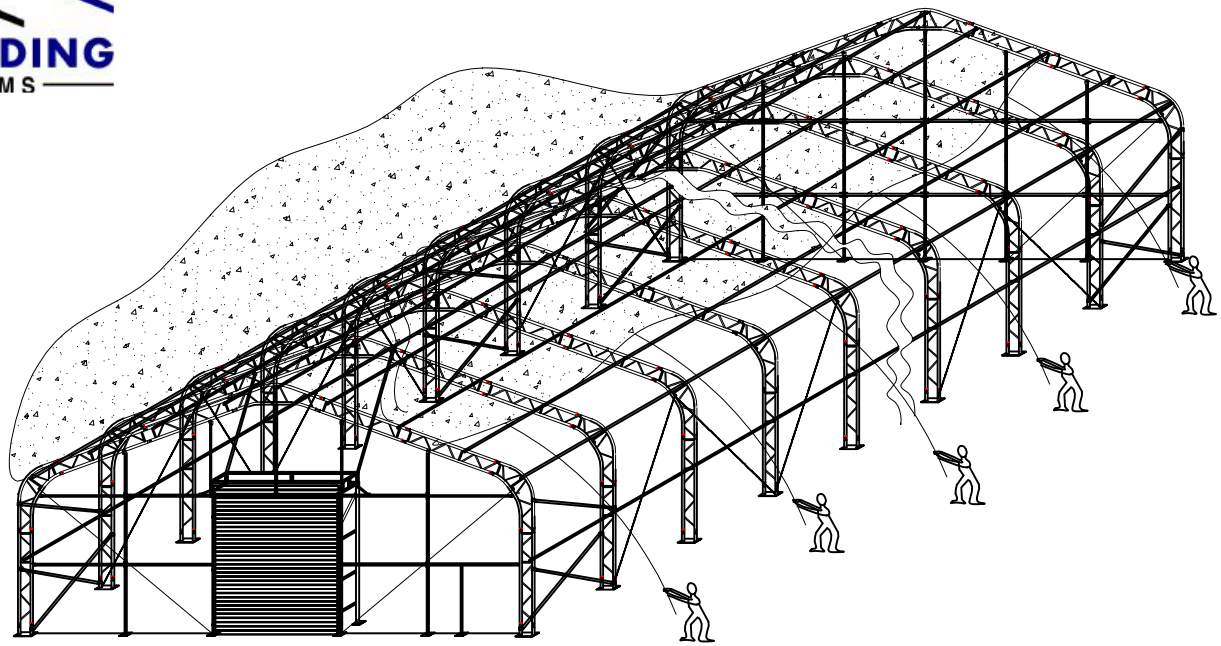
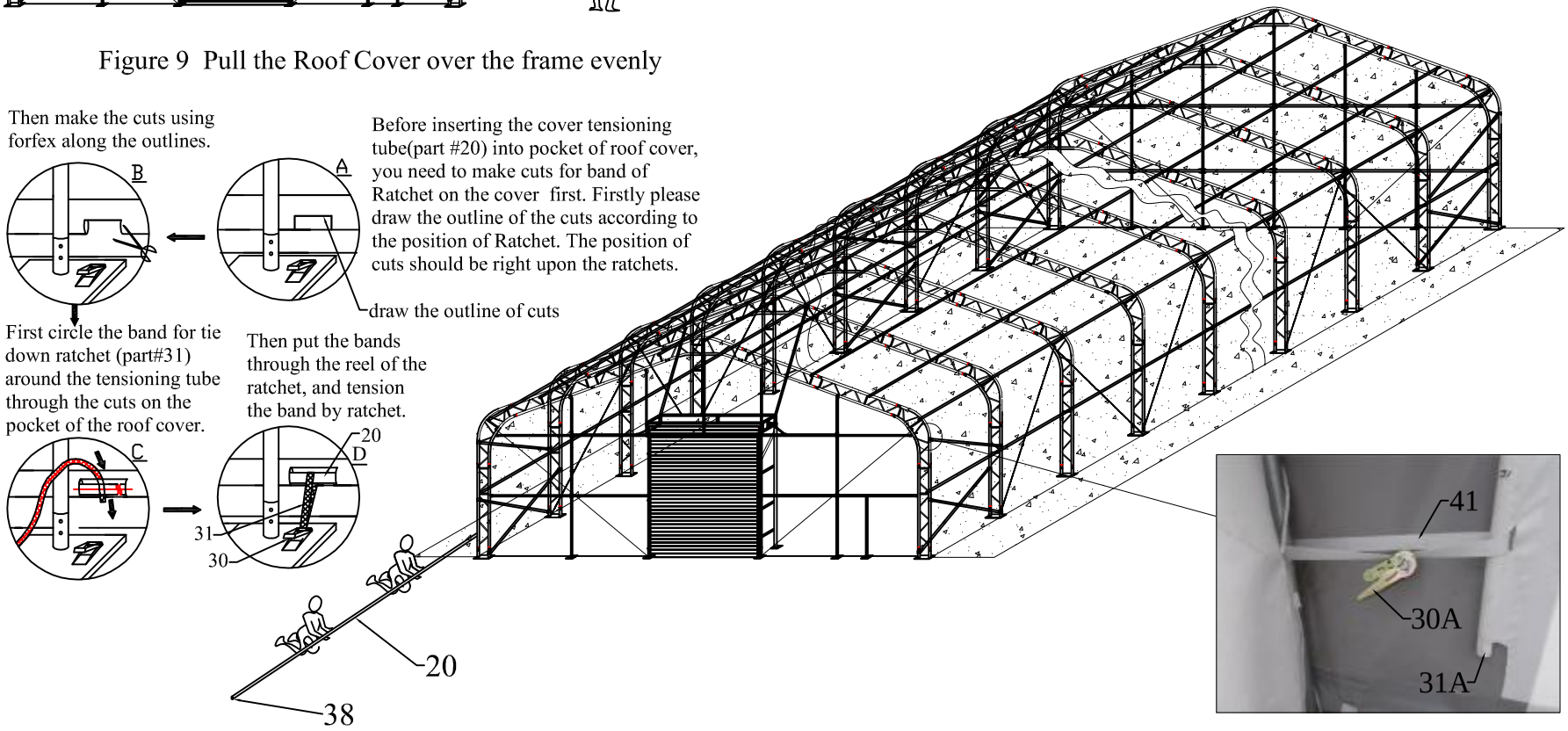


Figure 9 Pull the Roof Cover over the frame evenly



Step #7 --TENSION COVER ON FRAME FROM SIDE-TO-SIDE

As Figure 10 shows, when Roof Cover is over top of Frame Assembly, insert Cover Tensioning Tubes into pockets along both sides of Roof Cover. Center Roof Cover over Frame assembly both side to side and front to back. Align one side of Roof Cover evenly front to back. Add Band for Tie Down Ratchet at each point along the cover opening, as shown. Put Band for Tie Down Ratchets over Cover Tensioning Tubes at each Base Plate along one side. Bands do not attach to Tensioning Tubes, but loop around and secure at both ends on ratchet.

Next take up slack in tie bands by ratcheting the mechanisms, tightening cover. Evenly adjust ratchets on both sides of roof cover to take wrinkles out of roof cover. **DO NOT** fully tighten cover yet. Leave adequate slack so that cover can also be adjusted front to back in next step.

Step #8 --TIGHTEN ROOF COVER ON FRAME FRONT TO BACK

The roof cover is tensioned from front to back by the rope lacing to grommet flaps inside the main cover, inside the unit at both front and rear arches. Using the rope provided, lace the main cover grommet flap around the main frame front and rear arch pieces. Start in the top middle of each arch, and lace to each side. Add rope length by tying pieces together or cutting as necessary.

Lace all grommets on cover inside flap with rope. Starting at the middle top point over the door, tighten lacing only enough to take wrinkles out of the cover. Repeat for the Rear Arch. **DO NOT** over tighten lacing to pull out the grommets.

After the roof cover lacing is adjusted evenly across the grommet flap, go back and re-adjust the Tensioning Ratchets along the side edges of the Roof Cover. At this point, the main cover can be pulled taut enough to take all excess material and wrinkles out of cover. It will be necessary to repeat this step 2-3 weeks after unit assembly is complete and roof cover has a chance to stretch out over the frame completely.

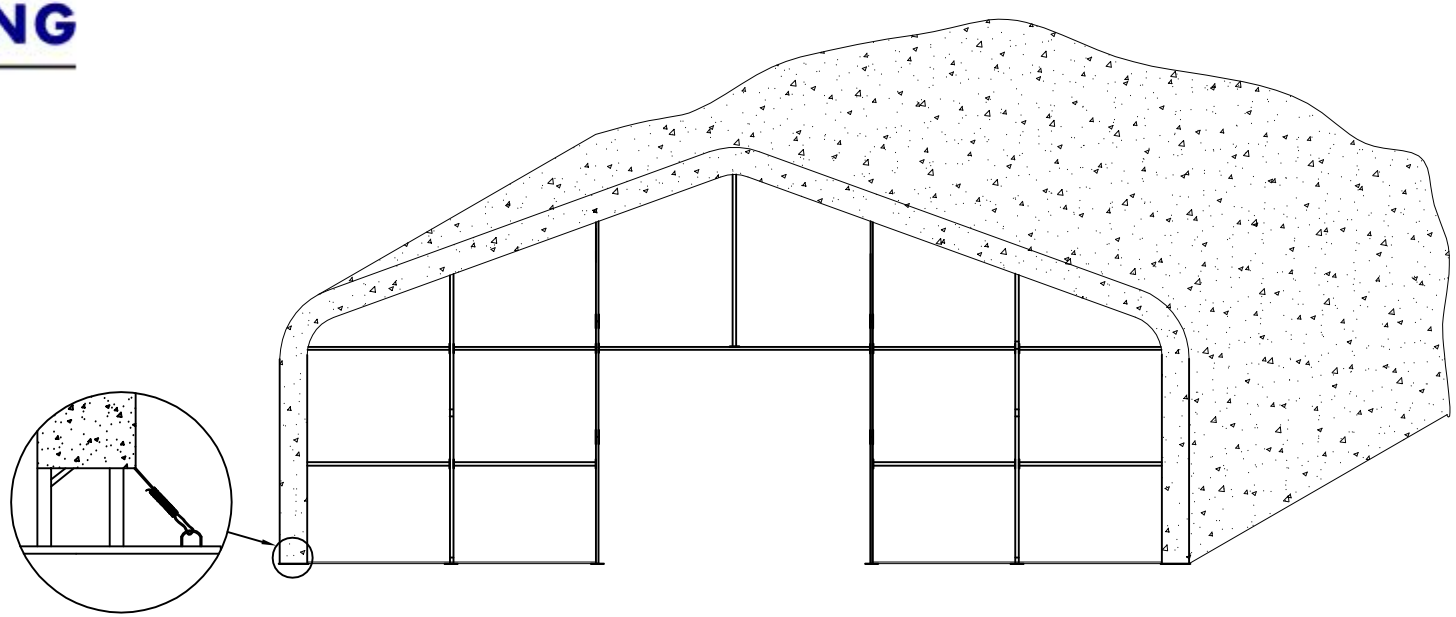


Figure 11 Fastening the two ends of the Roof Cover

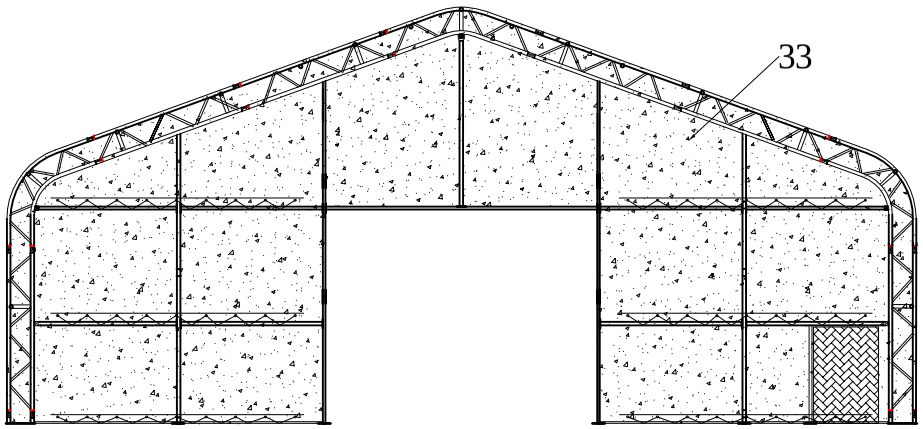


Figure 12 Installation of Front Panel Cover

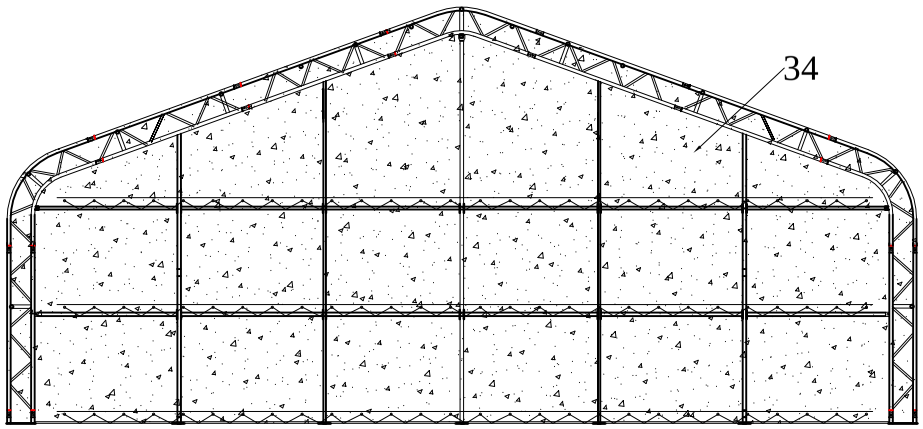


Figure 13 Installation of Back Panel Cover

Step #9 --ASSEMBLE FRONT & REAR COVER

Secure the Front and Back Cover to the arch panel by using the ropes provided.

Main Cover Edge Tie Off - Once both Front and Rear Covers are installed, the Roof Cover Edge flap, front and rear, should be tightened and tied off. Begin by pulling the remaining Roof Cover over the Frame arch, so the rope pocket is over the edge of the frame. Tie off the rope that goes through the rope pocket on one side. The rope ties off to the loop that is located on the Base Flange in Corner (6L or 6R). Moving to the other side, begin to pull the rope down. Hold the rope in hand, and push down at the bottom of the rope with a foot. Pull the rope tight, and tie off to the welded hoop on the Base Flange. As you are pulling the edge rope, it will be necessary to adjust the excess material that will collect along the rope packet. Adjust the material so that it is not bunched up and it does not pull the roof cover to one side or the other. Once the Front is completed, repeat the process on the Rear flap of the Roof Cover.

Electric Rolling Machine (Installed)

Installation and Precautions

- Products manufactured according to the install method (installed on the right side when you look out inside the tent).
- Door rolling machine should be installed horizontally, the curtain reel should be concentric, horizontal, the curtain piece without delay situation.
- Strictly prohibited to lift up bushing of the lead wire directly.
- Pay attention to prevent moisture and rain, avoid electrical short circuit of rolling machine.
- In order to ensure the safety of the equipment, the power supply circuit should be equipped with the specifications of the fuse or automatic air switch.
- In order to ensure the safety of operator, electric rolling gate machine must be protected by zero line or protective grounding.
- Door limiter adjustment: rise the door to the highest point and the lowest, adjust the position of limit block, the micro switch in the limit point of the normally closed contact is disconnected, after the adjustment, must tighten the locking screw.
- When use the button switches to change direction of the door, must press the stop button first for a longer service life of the machine.
- Pay attention to lubrication of transmission screw, transmission roller chain lubrication, should be add machine oil lubrication regularly, to improve service life.
- Pay attention to the friction plate of electromagnetic brake mechanism, adjust the distance to about 0.8mm when it affects the suction or braking effect.
- Use the dust cover for rolling machine in dusty place or outdoor installation.
- Pay attention to the working time (short-time working system): continuous running time not more than 5min.
- The operator should not leave the scene when the rolling door is working, If there is abnormal situation should immediately cut off the power supply and make timely inspection, troubleshooting before use; when the door is working, please don't cross over it.
- Pay attention to adjust the tightness of roller chain, to avoid the situation of too loose or too tight.

Pay Attention To:

Power phase sequence of single-phase rolling door machine is not reversed, when up order turns down, should shut it down and adjust the phase, then use it.

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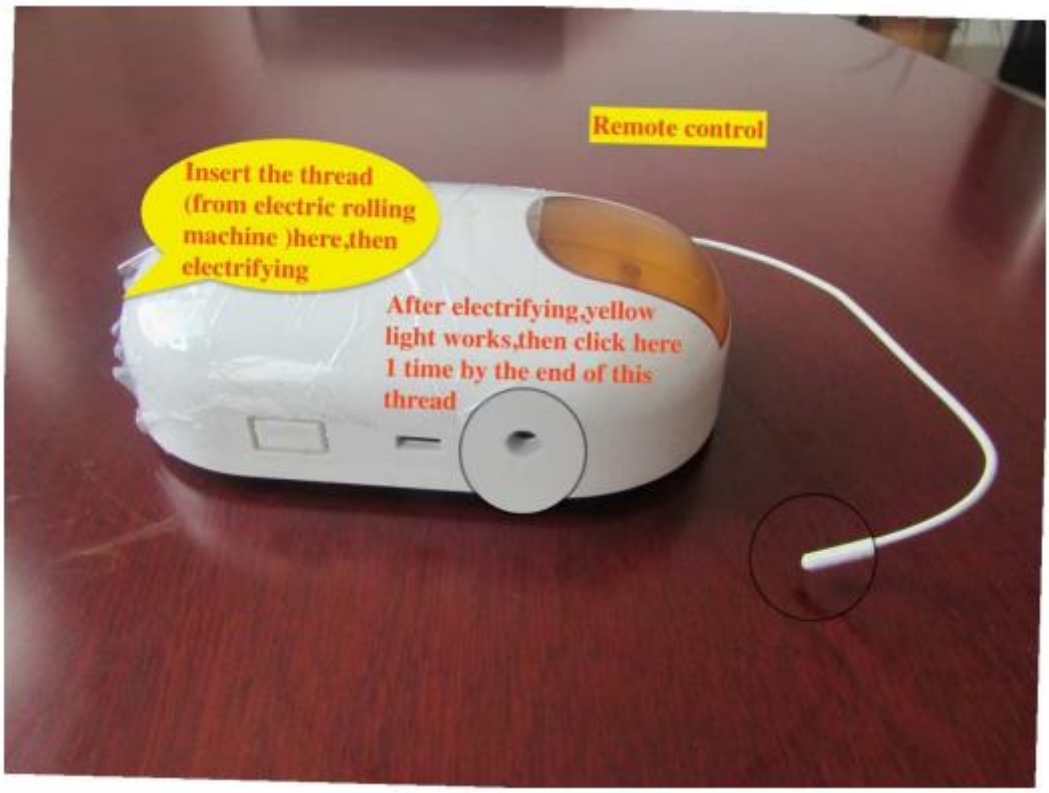
Make the door curtain up from the ground about 1M,
try on the three button(up,stop down).Observe whether the
door's function of rise stop down is sensitive and reliable
.If everyhing is OK,then begain debugging.


Remote control
Insert the thread (from electric rolling machine)here,then electrifying
After electrifying,yellow light works,then click here 1 time by the end of this thread

Transmitter(controller)
2.After step one,in 10 seconds,press any buttom twice in transmitter,then the transmitter works.

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Remote Control Installation Steps

1. To ensure safety please turn off the total power switch before installation.
2. Check whether the rolling machine works up, stop, down.
3. Please connect the wire according to the wiring diagram, make it correct and firm.
4. Fix the host of remote control, adjust the antenna to the best location and keep the antenna straightened, not covered or touched by metal. Installation location should avoid sunlight, rain and not easy to vibrate.

Troubleshooting

1. Remote control assembly is completed, the transmitter cannot work, may be:
    a. Wrong connection of wire, or poor wire contact, please check the lead wire connection is correct and firm.
    b. Power of transmitter battery is not enough, please replace the battery.
    c. Remote control and transmitter doesn't match, please rematch.
2. If the distance between transmitter and remote control is too close, please check whether the installation location of the host is covered by metal or direction of antenna direction is not suitable.
3. After a period of use, if the indicator light of transmitter is not bright, may be due to the poor battery contact, please re adjust the battery position.
4. If the door only go up or down by transmitter, please check whether the line connection is correct and firm.