

Model: GS304015

L12.0 x W9.15 x H4.5m

(One Winch roll up door in
front panel)

Assembly Manual

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.

READ ALL THE INSTRUCTIONS BEFORE ASSEMBLY !

1. The proper erection and installation of this building requires a high level of care and safety. We recommend the safety regulations be complied with during the installation. It includes but is not limited to:
 - Safety hats, protective eyewear and protective clothing
 - Safety harnesses for all elevated workers
 - Proper ladder, cage, and safety operation
2. Site selection: Choose a solid level location for your building. Do not install the building where the ground could not keep the building steady. Do not install the building where the ground could not bear the weight of the building. Do not install the building in soft grass ground or wetland.
3. Be cautious with the surroundings. Keep work area clean. Do not set up it near snow drifts, in slippery places, or in wet location. The cover of the building will protect against normal falling leaves and light debris, however, large, fast or sharp falling items etc. may cause a puncture or tear in the cover material. So, keep the building away from such harmful things. Be careful with power and heat sources. Don't keep heat sources near the tarpaulin. Don't expose to open flame.
4. Chose a windless day to install the building. It is very difficult to attach the cover in heavy wind.
5. All snow accumulation on the main cover should be removed as soon as possible. Otherwise, when old snow on the roof becomes hard with new snow falling in, it will increase the burden of the roof badly and will damage the roof.
6. Try to keep the building, especially its base, in a dry condition. This will help the building to have a longer life than keeping it in a wet conditions.
7. The user should be responsible for the parts missing or damage occurred during the installation.
8. Don't make alteration of the frame. Don't hang anything besides included parts to the frame. Damages, consequential damages, or injuries caused by improper installation, alteration, improper use, or damages caused by snow, wind, or any acts of nature are owing to the user. The building is not intended for occupancy for any length of time.

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 plates to ground.
3. Assemble every group of 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 covers over end panels.

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

MAINTENANCE AND CARE

1. If some parts or the cover were accidentally damaged during the use, contact the local supplier for advises on the repairing method or replacements, so that to prevent from further damage and keep the building in a good condition.
2. When replacing the parts, make certain the whole frame and the parts connected to the replaced parts be well fixed or supported.
3. Same with when attaching the cover, choose a windless day to replace the cover. Begin with making certain all the bolts of the frame and the tensioning equipments be well fixed. When taking off the cover, make sure the related ropes, etc. be taken off, and the cover will not be blocked during the way. Avoid taking off the cover with heavy big power equipments.
4. For the building with winch door. Keep the door closed if it is not used for long time. This helps the winch door to have a longer life. When the door is closed, buckle up the buckles on the door cover, this could protect the cover from wearing/breaking in the wind.
5. To enlongate the life of the cover, put small duct tape or foam rubber (provide it by yourself) on the frame that comes to in contact with cover. The tape and foam rubber acts as a cushion to avoid rubbing damage to the cover over years.
6. Periodically(once in half a year or more often), the building should be completely inspected and maintained internally and externally to make certain the building remains properly installed and secured. Including: check all bolts and hardware connectors to be certain they are in place and tightened, the base plates are still fixed firmly, check and adjust the ropes if in need, clean the cover with suitable washing. Allowing dirt and debris to sit on cover over an extended time will damage cover irreparably.
7. The bottom flap of main cover and end panel cover shall be held to the ground by stone/wood/soil. It could prevent the flap of cover being broken in the wind.
8. **The cover shall always been well tensioned! If there is any damage to the straps and ropes, they should be replaced As soon As possible.**

Thanks again for choosing this quality product. The following is the detailed assembly instructions for you starting the assembly.

Parts List		
Part	Description	Quantity
1	Top roof curved tube	7
2	Roof curved tube	10
2A	Roof curved tube at front panel (one end with screw flange)	2
2B	Roof curved tube at back panel (one end with screw flange)	2
3	Sidewall tube	10
3A	Sidewall tube at front panel (one end with screw flange)	1
3B	Sidewall tube at front panel to connect the winch rail(one end with screw flange)	1
3C	Sidewall tube at the back panel	2
4	Roof purlins	30
5L	Left Base flange in corner	2
5R	Right Base flange in corner	2
6	Base flange for door in the front panel	2
6A	Base flange for standing legs in the back panel	2
7L	Left Base flange	5
7R	Right Base flange	5
8	Upper standing legs in back panel	2
9	Lower standing legs in back panel	2
10	Upper door track	2
11	Lower door track	1
11A	Lower door track to connect the lower beam	1
12	Cross rail for front panel	2
12A	Winch rail	1
13	Side rail for back panel	2
13A	Middle rail for back panel	1
14	Wind Brace Support	4
14A	Tube clip for Wind Brace Support	8
15	Bottom tensioning tube of front cover	2
15A	Bottom tensioning tube of back cover	3
17	Tensioning tube for lower roof cover	2sets
18	Door dropping tube in the middle	6sets
19	Door dropping tube at the bottom	1set
20	Stake peg	50
24	Carrige Bolt M10x85 for purlin connection	40
24A	Bolt M10x75 for swaged connection	137
24B	Bolt M10x85 for winch connection and back panel rail connection	6

25	Bolt M10x30 for end panel and tube clip	20
27	Ratchet tie down	14
30	Roof cover	1
31	Front Cover	1
32	Door cover	1
33	Back Cover	1
34	Rope for fastening the cover	13
36	Band for ratchet tie down	14
37	Plastic cap for tensioning tube	14
38	Components for winch door	1set
39	Door beam	1set

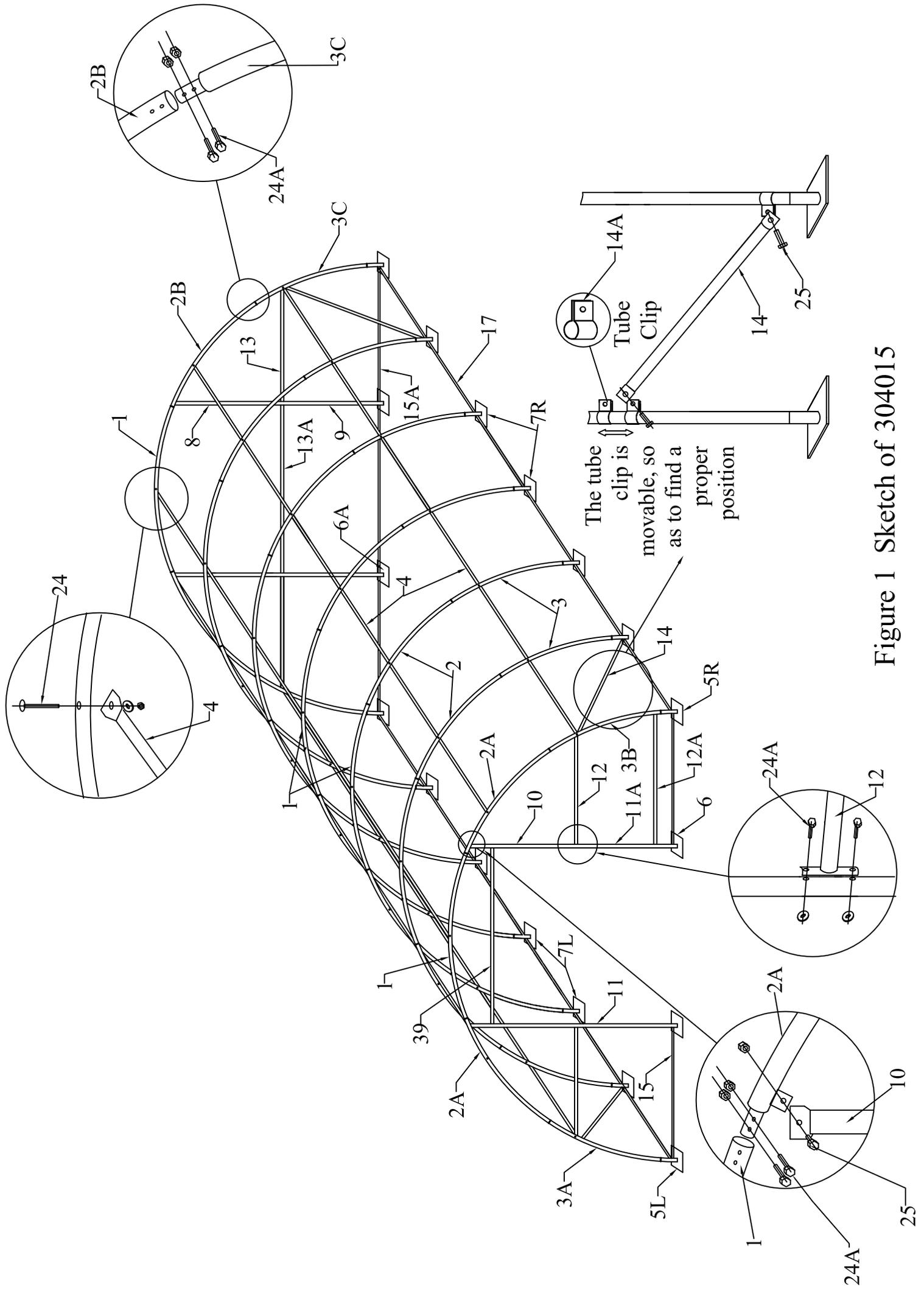
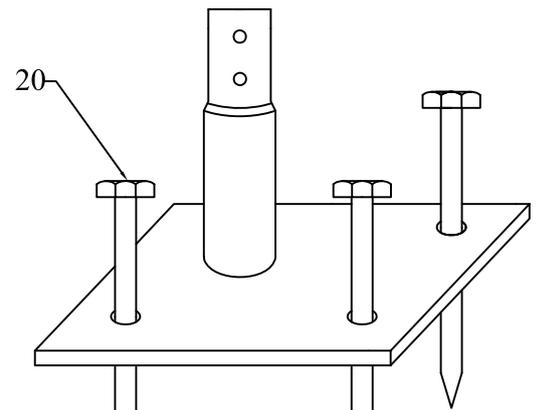
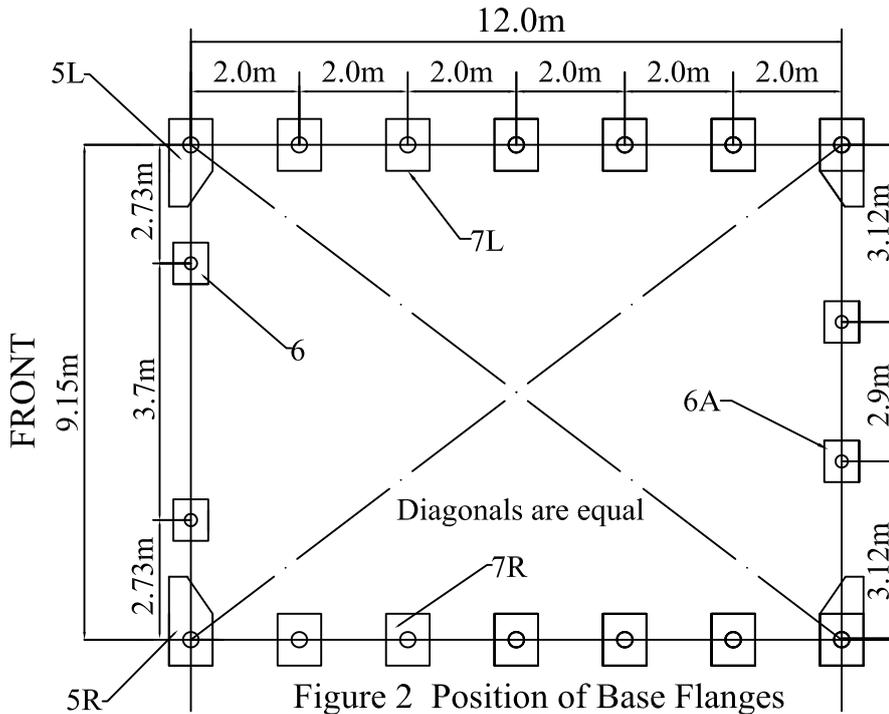


Figure 1 Sketch of 304015

Step #1 --SECURING BASE FLANGES

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.



As Figure 3 shows, each base flange has three stake pegs.

Begin by determining exact location of the four (4) corners of the building. Mark front edge and side-to-side width of assembly on ground. Drive alignment stakes into the ground outside of the markings, and draw alignment strings along both ends and sides of the building to the dimensions shown in Figure 2. The outline of the strings will represent the final location of the base flanges. The initial location of each Corner Base Flanges is critical to the alignment and fit of the frame components and cover.

Locate the Left Corner Base Flange and Right Corner Base Flange(part #5L&5R). Secure the base flanges with Stake Pegs (Part #20). Measurements shown in Figure 2 are to the center of the upright sockets on each Base Flange.

The Shelter must be secured to a firm surface that can receive and retain augers and 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. Arches are tensioned at their base as they insert into the Base Plate sockets.

Step #2 --ARCH ASSEMBLY

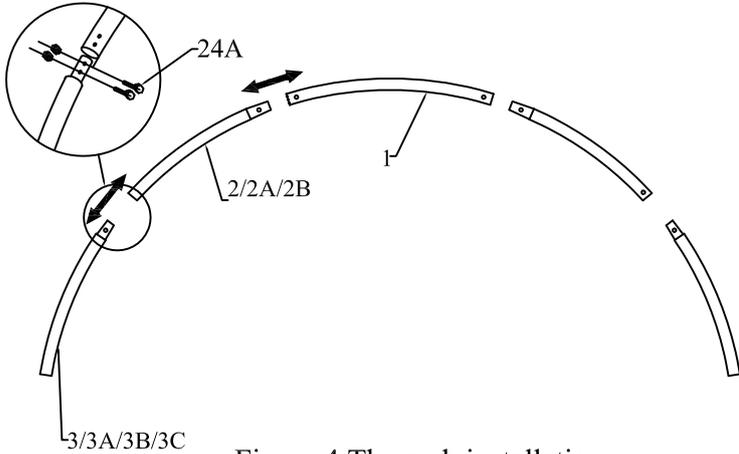


Figure 4 The arch installation

Assemble each arch on ground. Each arches consist of: One Top roof tube (Part #1), Two Roof curving tube (Part # 2/2A/2B), Two Sidewall tube (Part # 3/3A/3B/3C). Connect the arches by Using the hexagon bolts(part #24A) through predrilled holes in frame members. Do not tighten down the nuts completely until frame is fully assembled and set in place.

THE FRONT AND BACK PANEL FRAME ASSEMBLY

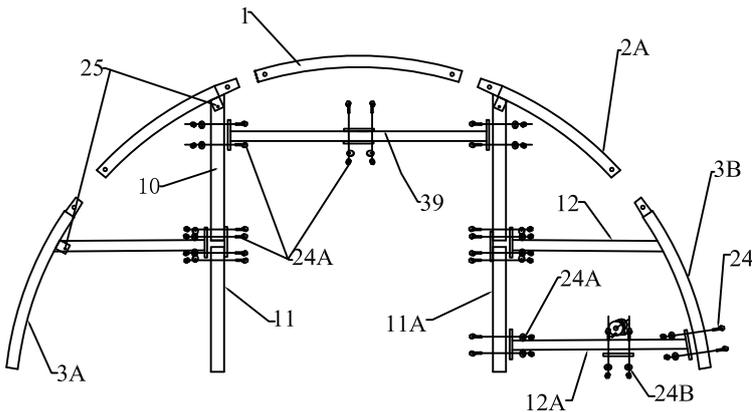


Figure 5 Front panel Installation

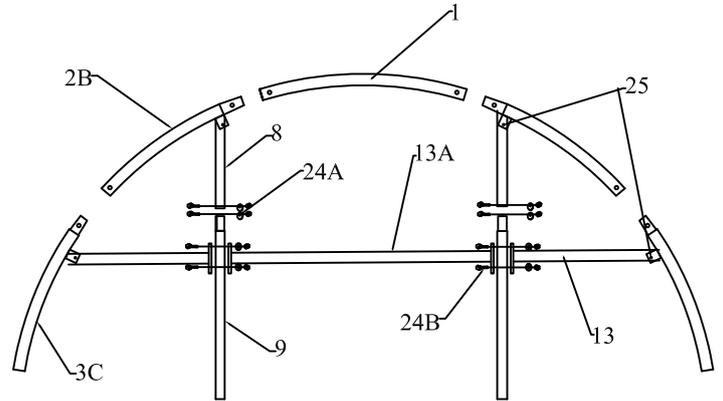


Figure 6 Back panel Installation

Assemble the front and back panel frame. According to Figure 5&6, connect the end wall frame by Using the bolts with washers and nuts through predrilled holes in frame members. Do not tighten down the nuts completely until frame is fully assembled and set in place.

NOTE: Please notice that the part code of the arch sections. The sections of different arches are not the same. Check with the Part List and the Sketch Figure #1.

NOTE: The Arches, the Front and Back panel should be assembled well on the ground, before erected into the Base Flanges.

Step #3 --ERECTING ARCHES

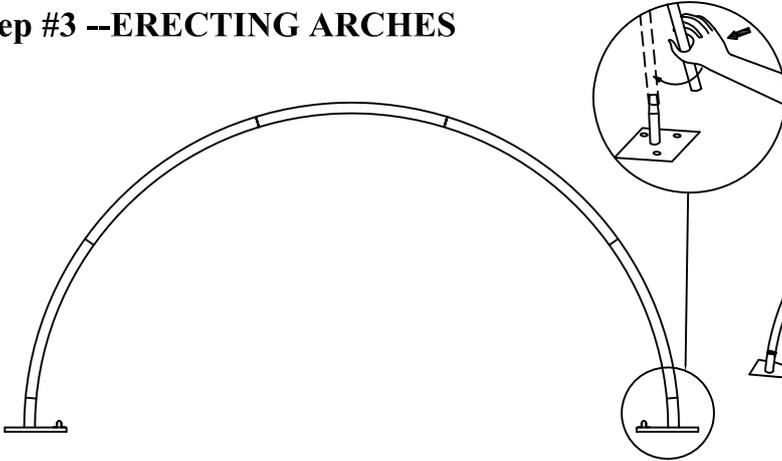


Figure 7 Attaching Arches to Base Flanges

Begin frame assembly by erecting Front Arch into Front Corner Base Flanges. Place left frame sidewall tubing into the upright tube socket into the Left Base Flange. Place Hexagonal Bolt through base flange socket and arch sidewall tube hole.

In order to insert Right Sidewall Tube into Right Front Corner flange, it is necessary to support arch on left side to prevent movement. Position the Right Sidewall Tube over the Right Corner Base Flange.

Once the Right Sidewall Tube is placed into right corner base flange, insert a hexagonal bolt and nut to prevent it from popping out of the socket while assembly continues.

Next stand first interior arch up to repeat insertion into Base flanges.

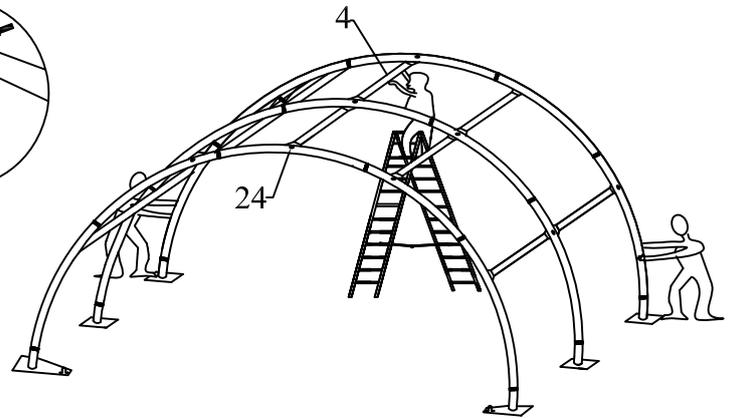


Figure 8

Immediately after putting first interior arch into place, connect Front Arch and Interior arch using Roof Purlin Tubes at top ridge and side shoulder curves of arches. Secure the Roof Purlin tubes into place using carriage bolts and nuts.

Step #4 --INSTALL THE WIND BRACE SUPPORT

Next install the Wind Brace supports(part #14) and Tube Clip(part #14A) 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 #25) 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. Next tighten frame bolts adequately. **DO NOT** over tighten bolts so as to oval or compress frame components.

ROOF COVER INSTALLATION Step #5 --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.

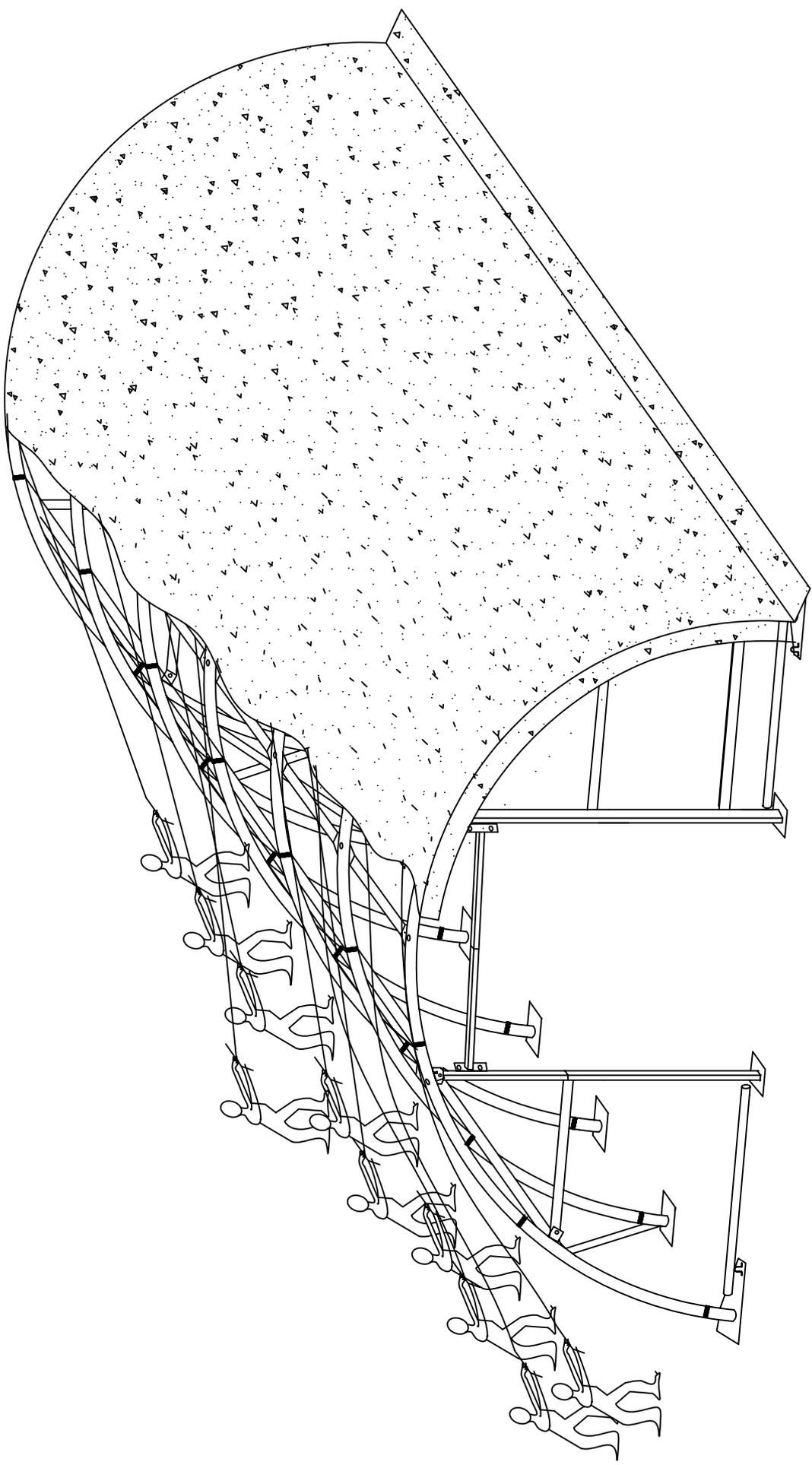
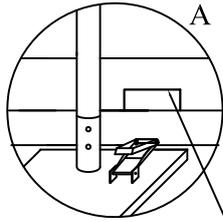
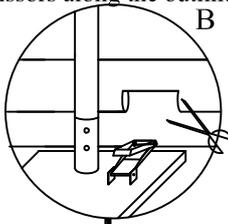


Figure 9: Pull the Roof Cover over the frame evenly

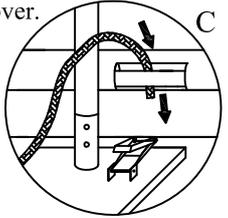
Then make the cuts using scissors along the outlines.



Before inserting the cover tensioning tube (part #17) into pocket of roof cover, you need to make cuts for band of Ratchet on the cover first. Firstly please draw the outline of the cuts according to the position of Ratchet. The position of cuts should be right upon the ratchets.

draw the outline of cuts

First circle the band for tie down ratchet (part #36) around the tensioning tube through the cuts on the pocket of the roof cover.



Then put the bands through the reel of the ratchet, and tension the band by ratchet.

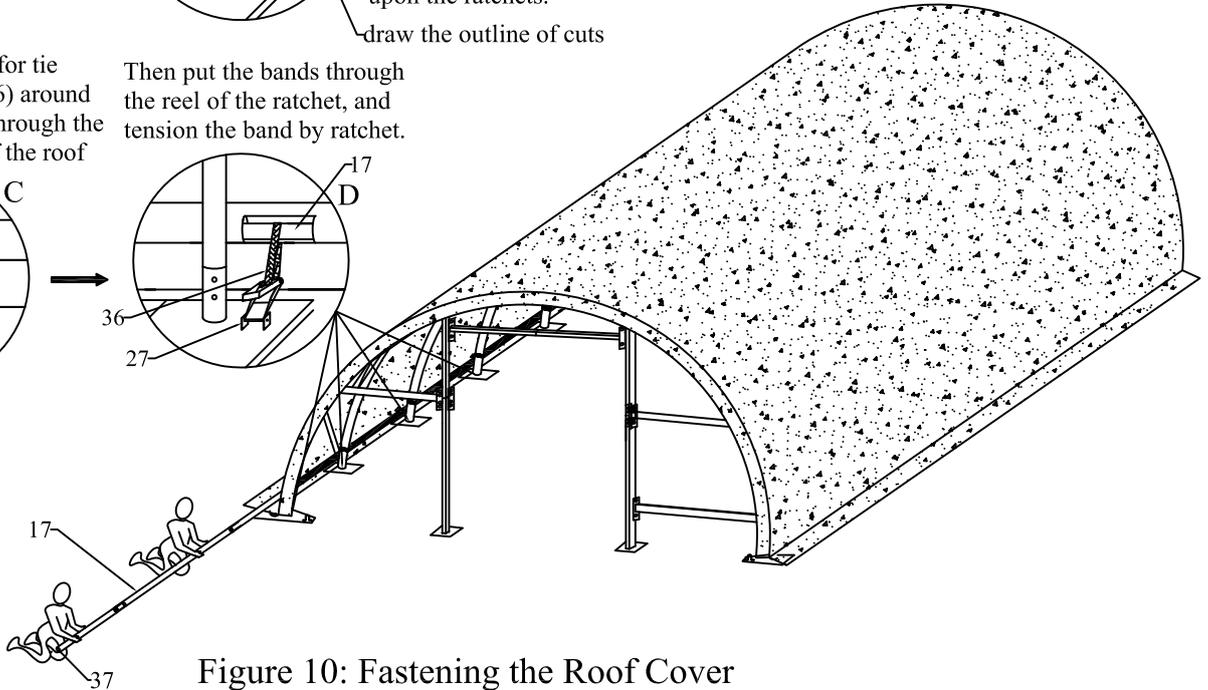
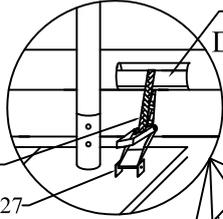


Figure 10: Fastening the Roof Cover

Step #6 --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 #7 --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 over has a chance to stretch out over the frame completely.

Step #8 --ASSEMBLE FRONT & REAR COVER

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

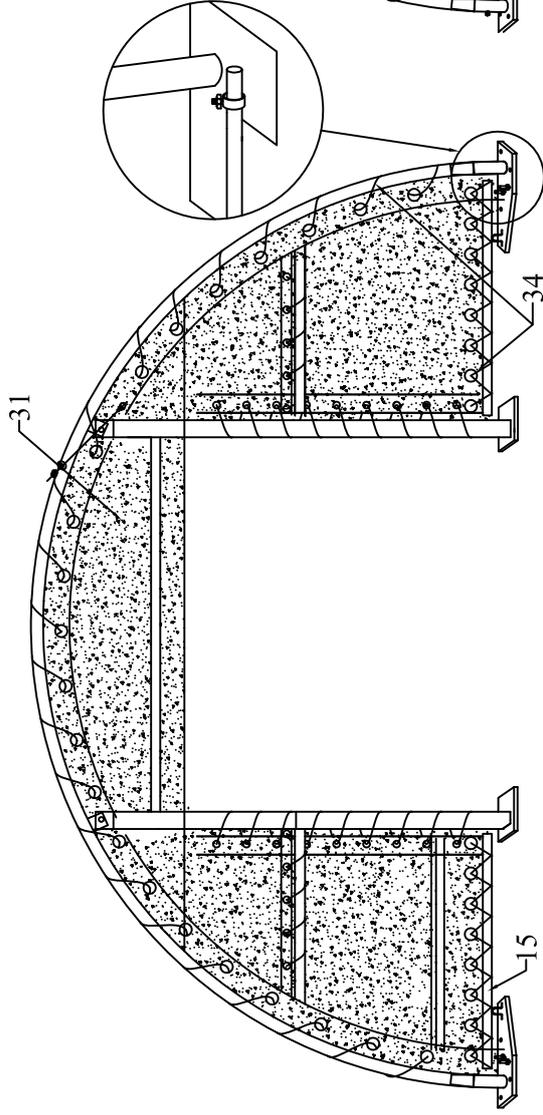


Figure 11 Installation of Front Cover

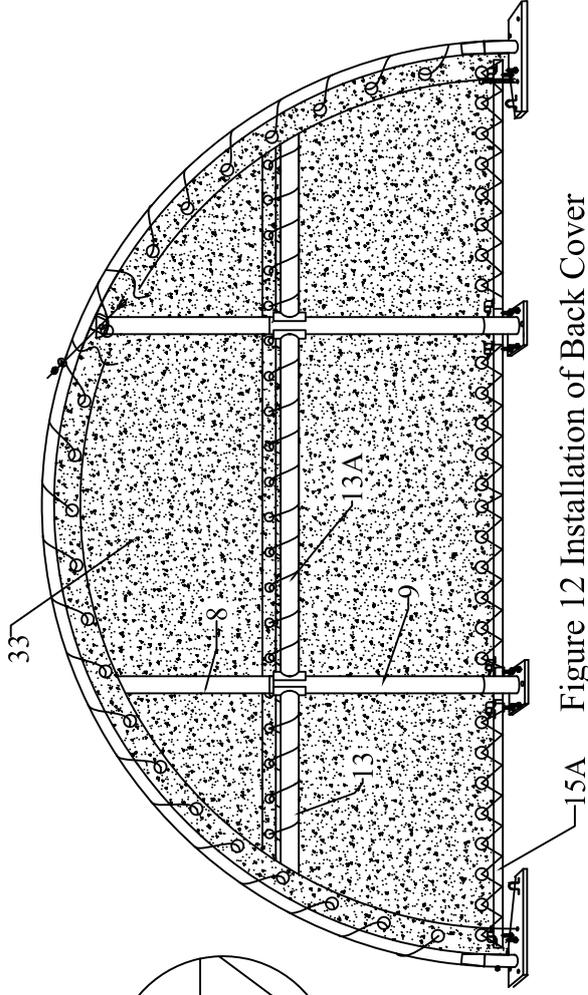


Figure 12 Installation of Back Cover



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. 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 pocket. 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.

NOTE: The cover shall always be well tensioned! If there is any damage to the straps and ropes, they should be repaired/replaced ASAP, to prevent any further damage to cover

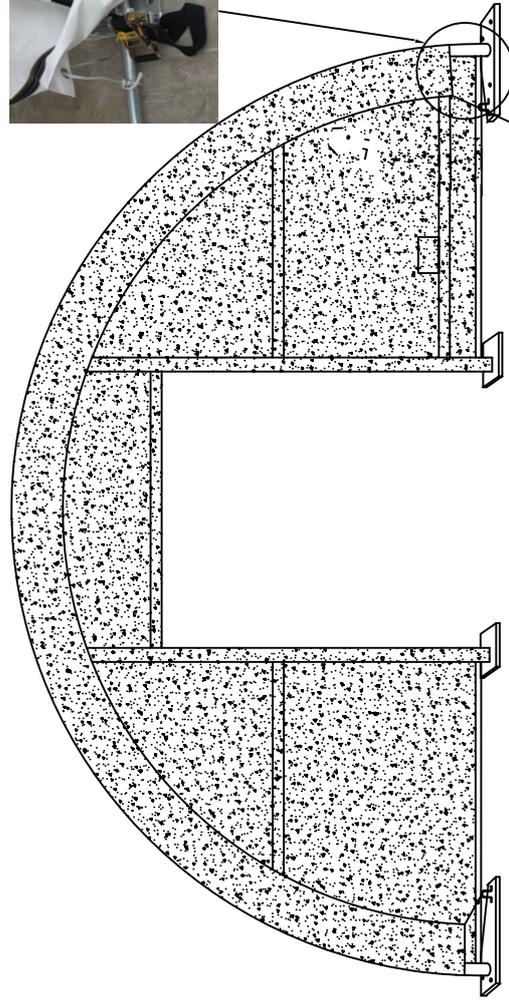
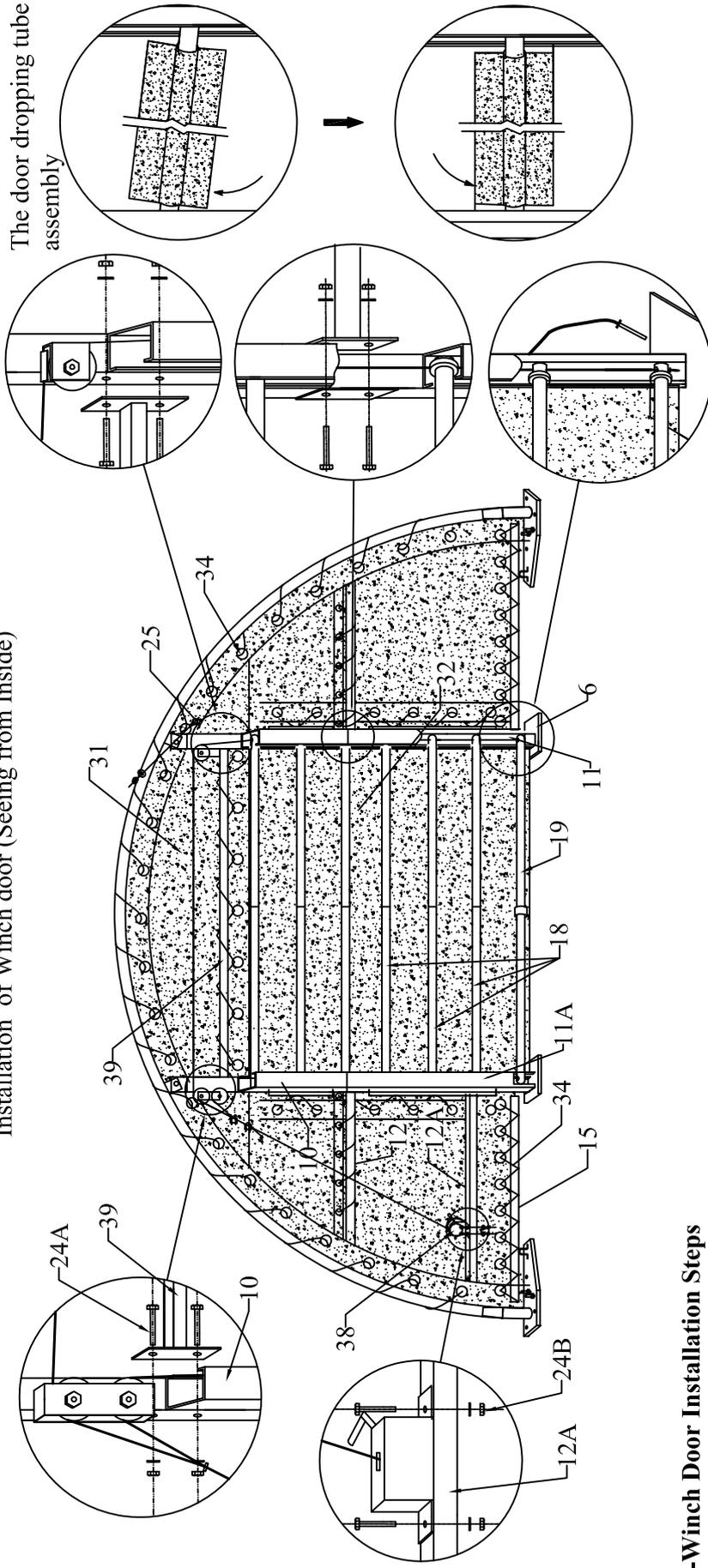


Figure 13 Fastening the two ends of the Roof Cover

Installation of Winch door (Seeing from Inside)



Step #9 --Winch Door Installation Steps

1. Install Main Door Pulleys (left and right) over the Top of the Door on each side of the Door Beam (Part #39).
2. Next mount the Winch to the Front Panel Lower Beam (Part #12A).
3. Slide Bottom Door Dropping Tube (Part #19) into the bottom horizontal fabric pocket on the Door Cover(Part #32). Then slide the six remaining Door Dropping Tubes (Part #18) into the remaining horizontal fabric pockets in the Door Cover.
4. From the bottom of the door tracks(11,11A), gently raise and slide one door dropping tube(18) into the tracks. And then feed the other remaining door dropping tubes(18,19) into the door tracks.
5. Next install the steel wire that leads from the door winching assembly to the bottom of the door dropping tubes. The Winch Assembly has a long and a short steel cable secured to it. Feed the end of the shorter of the two cables through the lower roller of the double pulley at the top of the door assembly track closest to the Winch Assembly, and then down through the holes in the Bottom Door Dropping Tube (19) on the left hand side of the door (facing from the inside). When the steel cable goes down through the hole in the Bottom Dropping Tube (19), tie a knot in the steel wire so that it cannot pass back up through the hole.
6. From the Winch Assembly route leading end of the Longer Steel Cable through the Upper Roller of the double pulley on near door track and then through the Single Roller on the door track farthest from the Winch Assembly. Then down through the Bottom Door Dropping Tube (19). When the steel cable goes down through the hole in the Bottom Door Dropping Tube (19), tie a knot in the steel cable. Door can now be opened or closed by operating the Winch Assembly. Raise and lower the door several times to be certain door tube ends are not binding on track. Lubricate if necessary.