MARQUEE INSTALLATION HANDBOOK

Cone Structures

Pagoda Assembly Instructions

- Lay out aluminium components. We suggest that the eave rails are positioned and then the legs with knuckles attached are laid out. Open the flap on each leg and fold the eave fabrication upwards.

- Check that each eave rail has the square slot on the outside edge and facing down. This is so the walls will fit and the roof clip in correctly.

- Slot each eave knuckle into the fabrication and bolt through holes and fit 4off round poles to eave so that they point to centre of tent. Then fit central spider with screw thread wound down.

- Layout PVC roof and pullover the structure fitting Y shaped kader profile to roof. *Note: the Y needs to face so that the hooks face inwards.*

- Clip the roof to the eave profile of the tent on all four sides and climb in under the roof putting top on to the extra pole and pushing both up the inside of the roof. Slot the post over the central spider.

- Lift one side of the structure and lock two legs in position, taking care not to trap the roof in the hinge, then bolt the flap closed.

- Lift the other side and lock legs in position, hooking the roof to the four legs and tensioning buckles to hand tight. Tension the roof by winding the central tensioner until the roof is taut.

- Locate the structure where required and stake structure down to the ground and fit walls as necessary.

  Note: Dismantle in reverse

Romsey Pagoda Assembly Instructions

- Lay out the roof beams and corner knuckles. Check that each eave rail has the square slot on the outside edge and facing down. This is so the walls will fit and the roof will clip in correctly.

- Slot each eave knuckle into the beams and bolt through holes and fit 4 off round poles to eave so that they point to centre of tent. Then fit central spider with screw thread wound down.

- Pull the roof over the structure making sure the keder edge is on the inside.

- Slide the thin keder track down the keder edge of the roof and clip on to the eave profile of the tent on all four sides (this is a Y shaped channel and is fitted with the Y facing down to allow it to clip to the eave aluminium).

- Climb in under the roof and push the pole and cap up into the peak of the roof. Slot the post over the central spider. Tension the roof by winding the central tensioner until the roof is taut

- Lift one side of the structure and attach 2 legs to the eave knuckles, bolting them into position. NOTE: Always lift the structure into the prevailing wind.

- Lift the other side and attach the final 2 legs, using the curve on the bottom of the knuckle to help locate and lift the frame if necessary. Attach base plates to the bottom of the legs.

- Locate the structure where required and stake structure down to the ground. Fit standard walls using curtain and ground rails with specially curved ends.

  Note: Dismantle in reverse.

CQ Cone Assembly Instructions

- Equipment needed -
  CQ cone roof sheet
  CQ cone knuckle
  Threaded bar lock nut and winder
  Top cap
  Extension tube
  4 off bracing wires ()
  1 off cross wire with brackets and bolt
  Access equipment suitable for 4m working height

- Ensure tent base plates are square and when laying out roof beams on ground fit special cone knuckle, complete with threaded bar, ¼ extended.

- WARNING;- *Great care needs to be taken when lifting the pole and top cap on to the knuckle and suitable PPE should be used by all involved*

- Once roof arch is assembled also fit cross wire and brackets and use double eyebolts at eave and ridge to assemble marquee arch.

- Rotate arch and secure with purlins in normal manner. Fit bracing wires as per diagram and tension all wires.

- Taking care, pull over roof sheet with kader in normal manner. Fit top cap and extension tube. This will require safe access to the height of the knuckle at 4m.

- Fit eave bungee hooks or bar tension bars.

- Tension roof by winding the screw thread clockwise using the winder supplied.

- Adjust eave bungee or bar tension to remove any creasing. Check bracing and cross wire tensions. Tighten locking nut.

- To dismantle, loosen the locking nut and unwind the tension from roof (anti-clockwise). Slacken tension in eave connections of roof. Remove top cap and extension tube.

- Take care when dismantling these as they can easily fall. Pull off roof. The frame can now be dismantled in the usual manner.

9m Tri Cone Installation Instructions

Tools required

- 1off mega ladders
- 17mm dia spanners
- 2 off Throw over ropes
- Gloves

Process

Frame

- Layout the components, refer to Drawing
- Build one 9m starter bay frame, fitting the ridge plate at the ridge connection using m10x 70 bolts with a nylock nut and a large washer, to ensure the loads are transferred to the roof beam. Secure this to the ground. Where bracing wires are fitted it is important to ensure the eye bolt is long enough to pass through the ridge plate with enough length fit the washer and nut.
- Fit a 200mm spreader plate to the legs at top and in scissor hole.
- Build second 9m frame, using the ridge plate at the ridge connection and secure to spreader plate
- Fit three purlins to stabilise purlins
- Build 3rd bay frame, using the ridge plate at the ridge connection and secure to first and second using spreader plates and purlins.
- Install central purlins to the ridge connectors and the fit the central push up assembly. Ensure the screw thread is wound down and that the lock nut is in place above the push up knuckle.
- Fit 3 off tension wires to the eyebolts and tension evenly

PVC

- Identify the end of the roof with a pocket; the roof needs to be fed over with this edge leading.
- Attach the throw over ropes to the two D rings and Introduce both ends of the kader at same time and pull over.
- When fully over, push the roof pocket into the kader track and slide in fibreglass rod. Push up to centreline. (Gloves will stop fibre glass strands sticking into hands)
- Before tensioning install the centre mushroom top and support pole on to the push up screw. Once in place tension by turning the screw thread. Lock the thread with the locking nut.
- The roof has eave D rings which can be used to tension along the kader edge if required to remove any creasing.
- Install PVC infill walls as required.