

PT LIGHT



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# ERECTION MANUAL



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# 1 Introduction

The following instructions describe in a methodical plan the construction and erection of your **RÖDER** tent.

Follow always these instructions.

Work from point to point.

If it is necessary, there are extra points, in which you have to take care or pay special attention.

***Please pay attention to the appropriate safety regulations for prevention of accidents.***

## **Regarding the contents of this document:**

The captures 1-4 are describing the construction of the tent. In the captures 5-7 are repeating additional technical information, maintenance and dismantling procedures.

The drawings are made to show clearly the mounting's steps and also for the identification of the separate building components.

It has to be pointed out to that pictures, do not always correspond to the real dimension and size. Explanations and/or notes have been added to these pictures.

If you have any questions, please call  
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## 1.1 General notices

Before starting construction you must read this documentation exactly. If the points are clear and the building components are identified and ready, then start construction and follow the instructions step by step.

Pay attention to the safety regulations for prevention of accidents.  
The life of the helpers may be in danger due to the lack of unknownledge and observation of the given regulations.

Work on every point of the instructions chronologically.

For the construction of the tent there has to be a minimum of 2 people.

### ***Notes on safety:***

During construction wear protective clothing according to your work to prevent injuries.

Replaced used or damaged components with original new ones.

### ***Pay attention to:***

You have to keep the relevant safety appliances and standard specifications.  
(Employer's liability insurance association).

The construction helpers have to be instructed about the possible dangers before construction begins.

The supervision and the responsibility has to be taken by an expert person during the construction.

Expert is the person who knows about the operating cycle and the requisite safety precautions.

## 1.2 Construction tools

The construction and dismantling has to be done with the respective construction tools.

### **Special provided tools for the construction:**

2x double ladder equivalent the height of tent's side.

At least 2x spanner SW 19

At least 2x spanner SW 17

1x handspike

1x aboutsledge

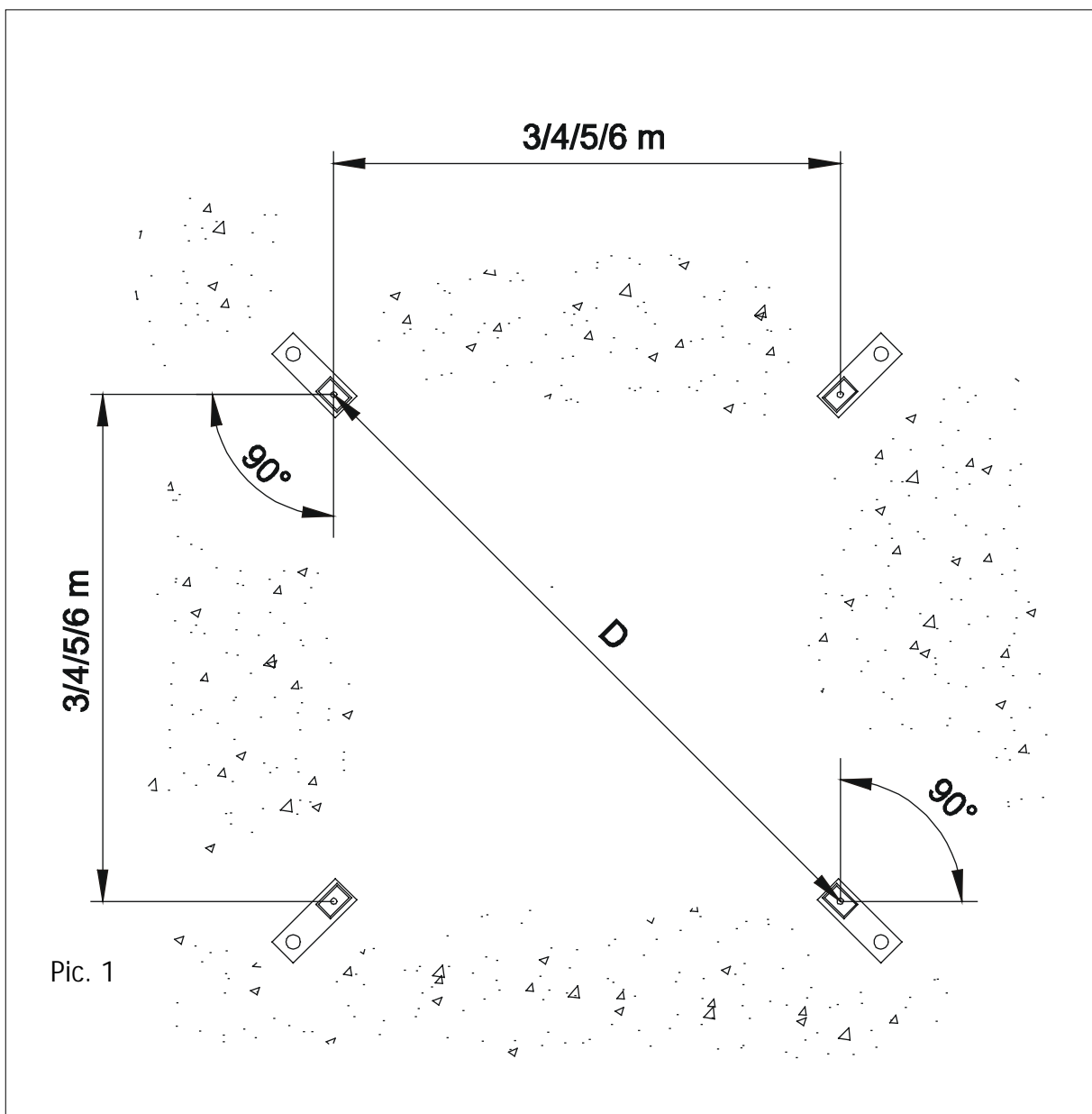
1x measuring tape 10m

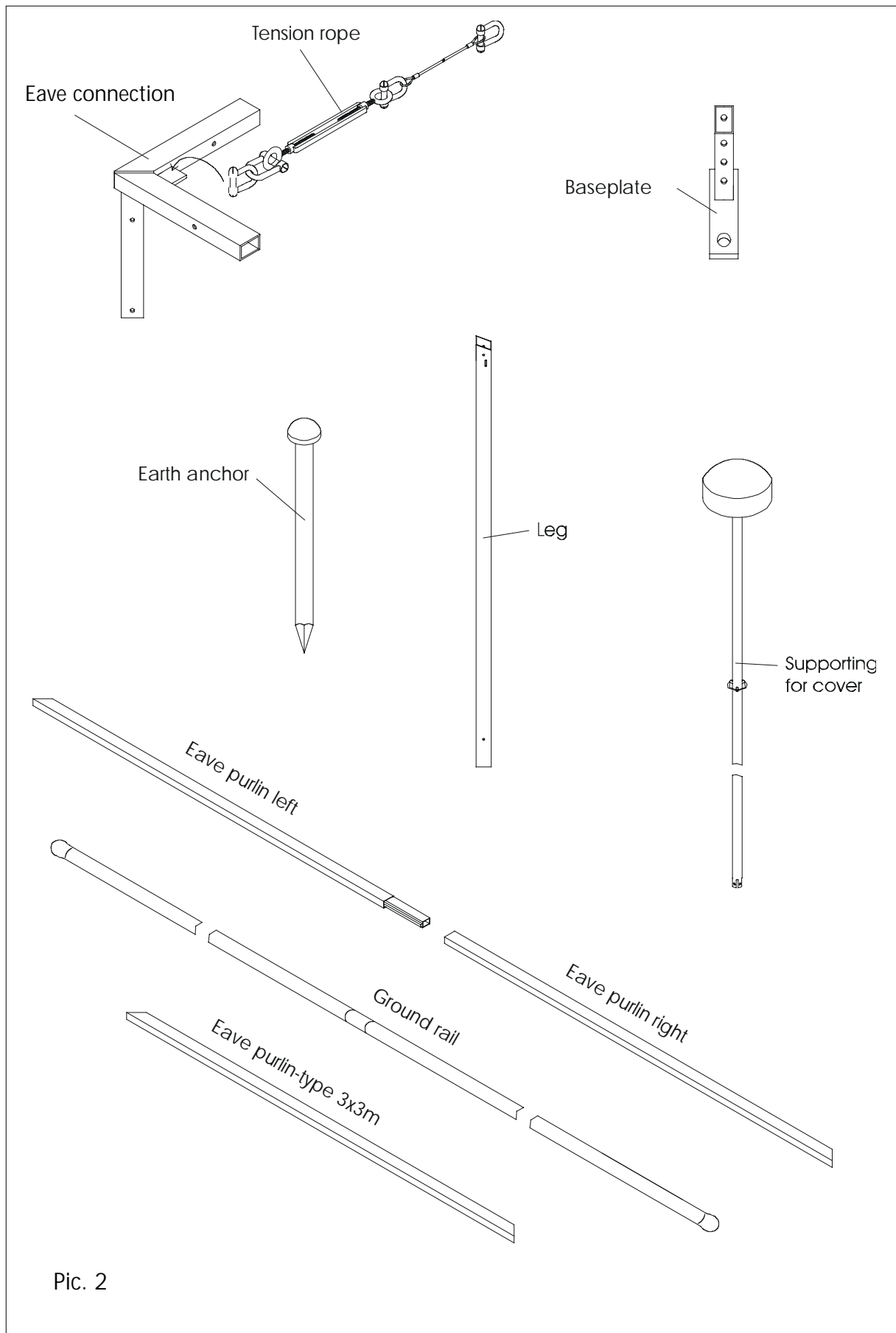
1x optional: directional cord (at least the double the length of the tent)

1x optional: peg puller (for dismantling recommended)

## 2 Pre-assembly of the tent

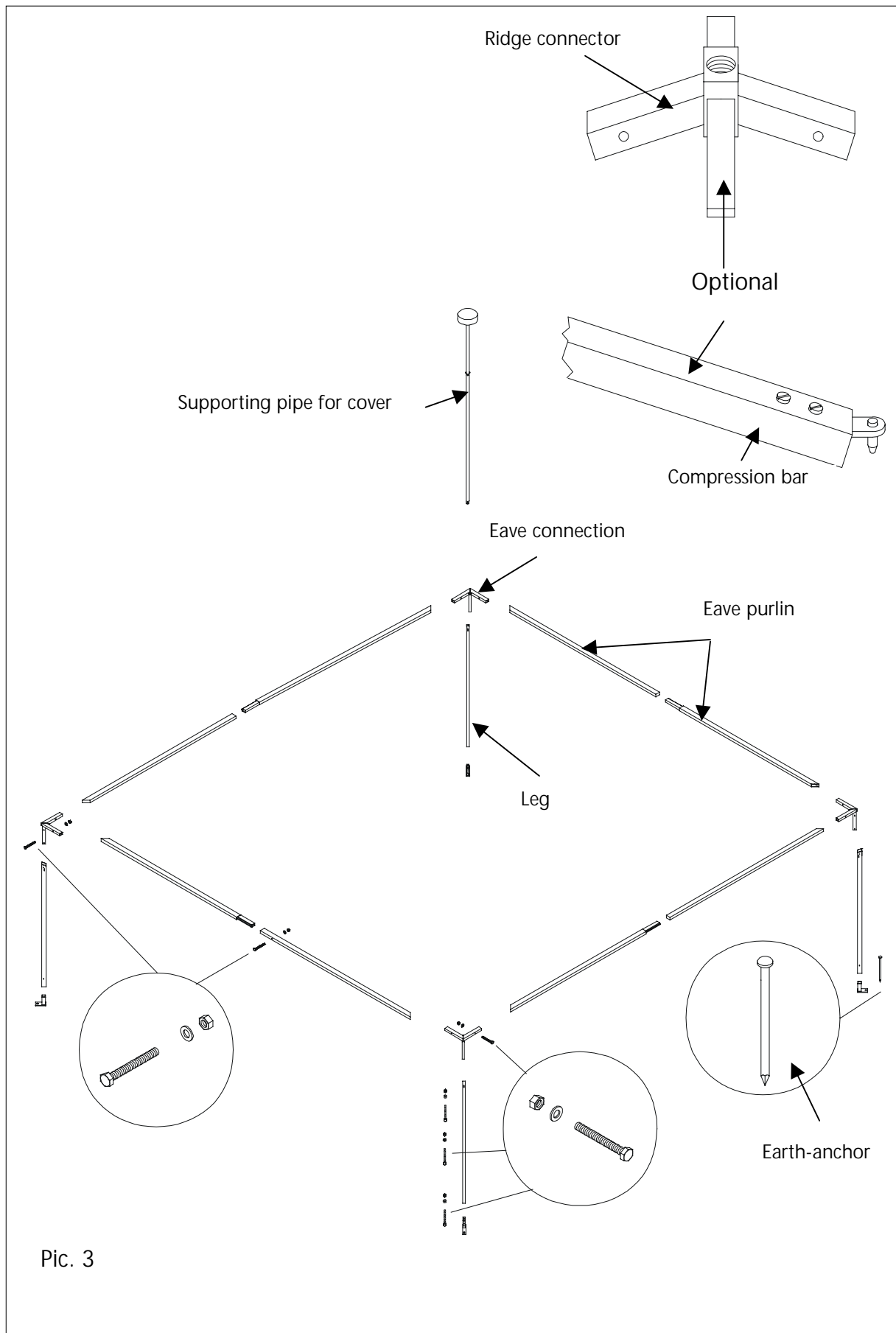
- 2.1 Identify and assign the components according to the pictures 2 and 3.
- 2.2 Lay down the baseplates (pic. 1) and choose the right place for mounting.
- 2.3 Put together all of each two pieces eave purlins and screw them down with screws M 10x100 (pic. 5). (for the type Party tent Light 3x3m this mounting step has been cancelled).
- 2.4 Allocate the four eave connections to the eave purlins and place them (pic. 3).
- 2.5 Set to the right position the eave purlins and screw them down with screws M10x100 (pic. 4).



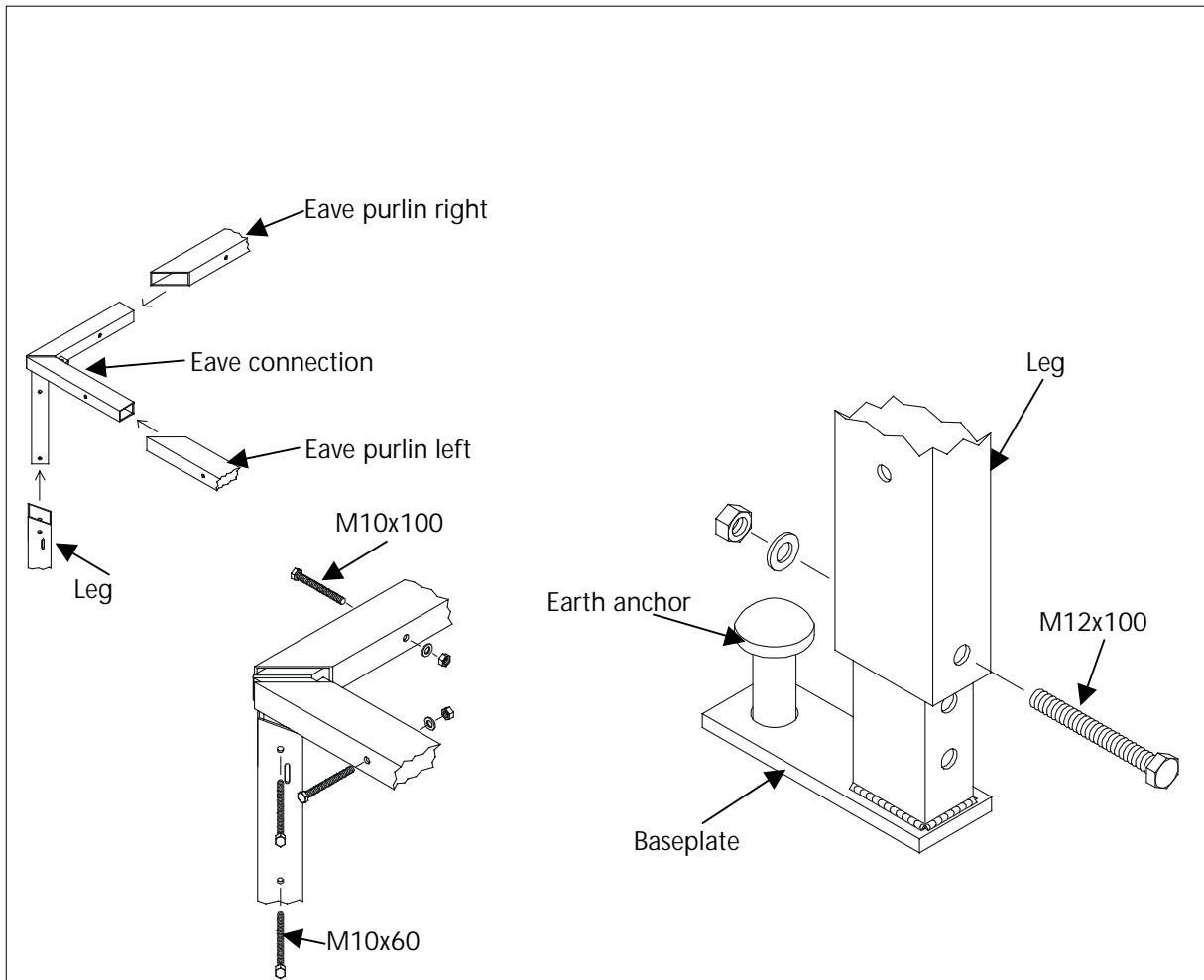


Pic. 2

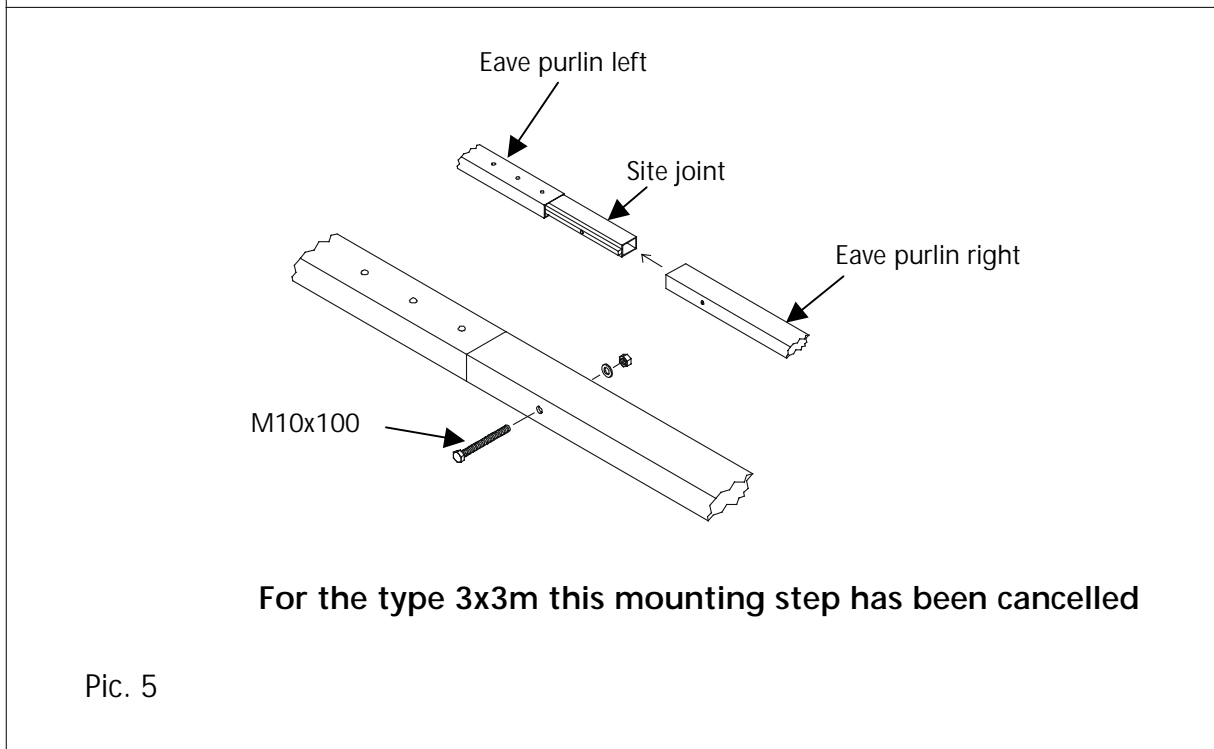




Pic. 3

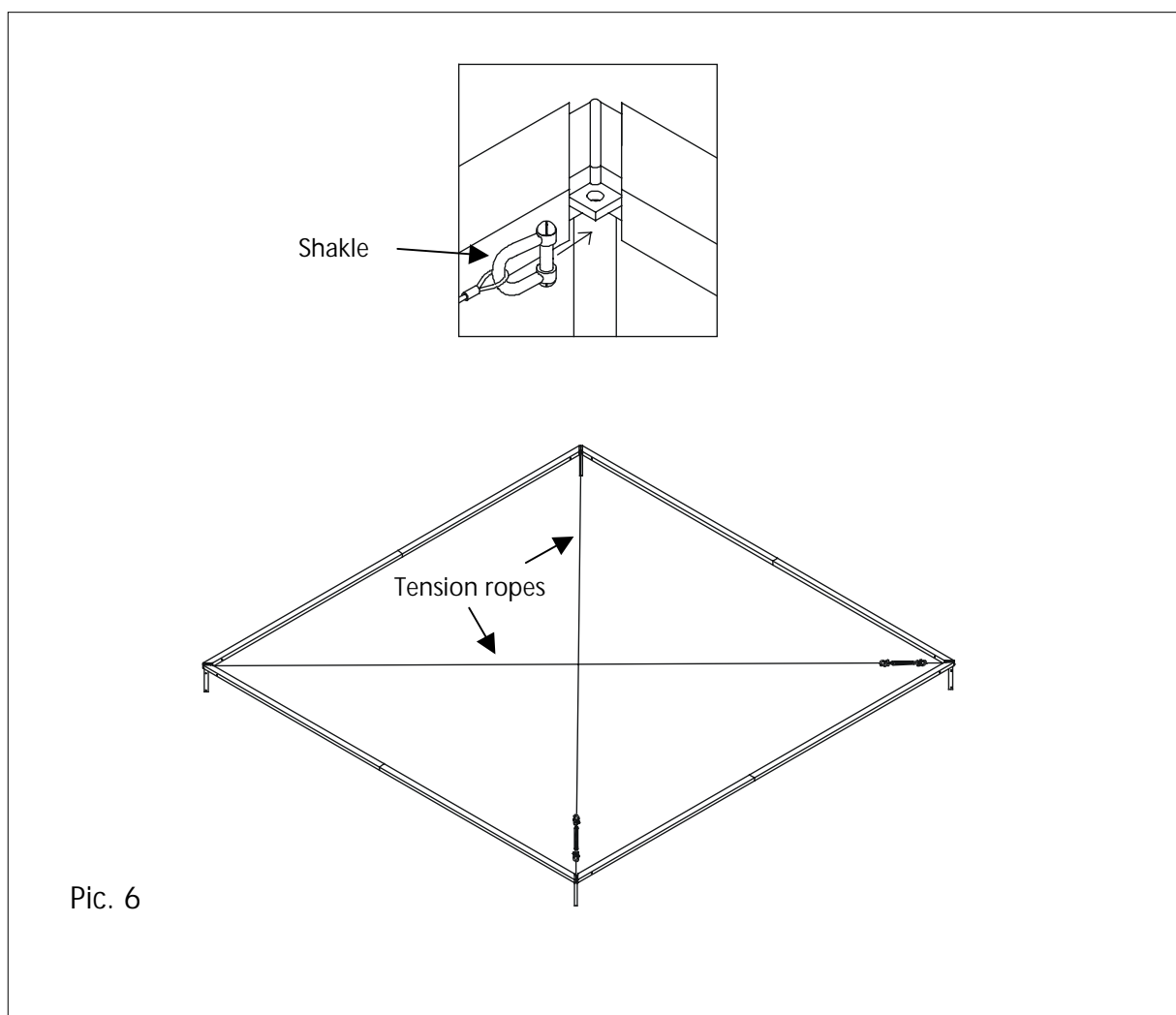


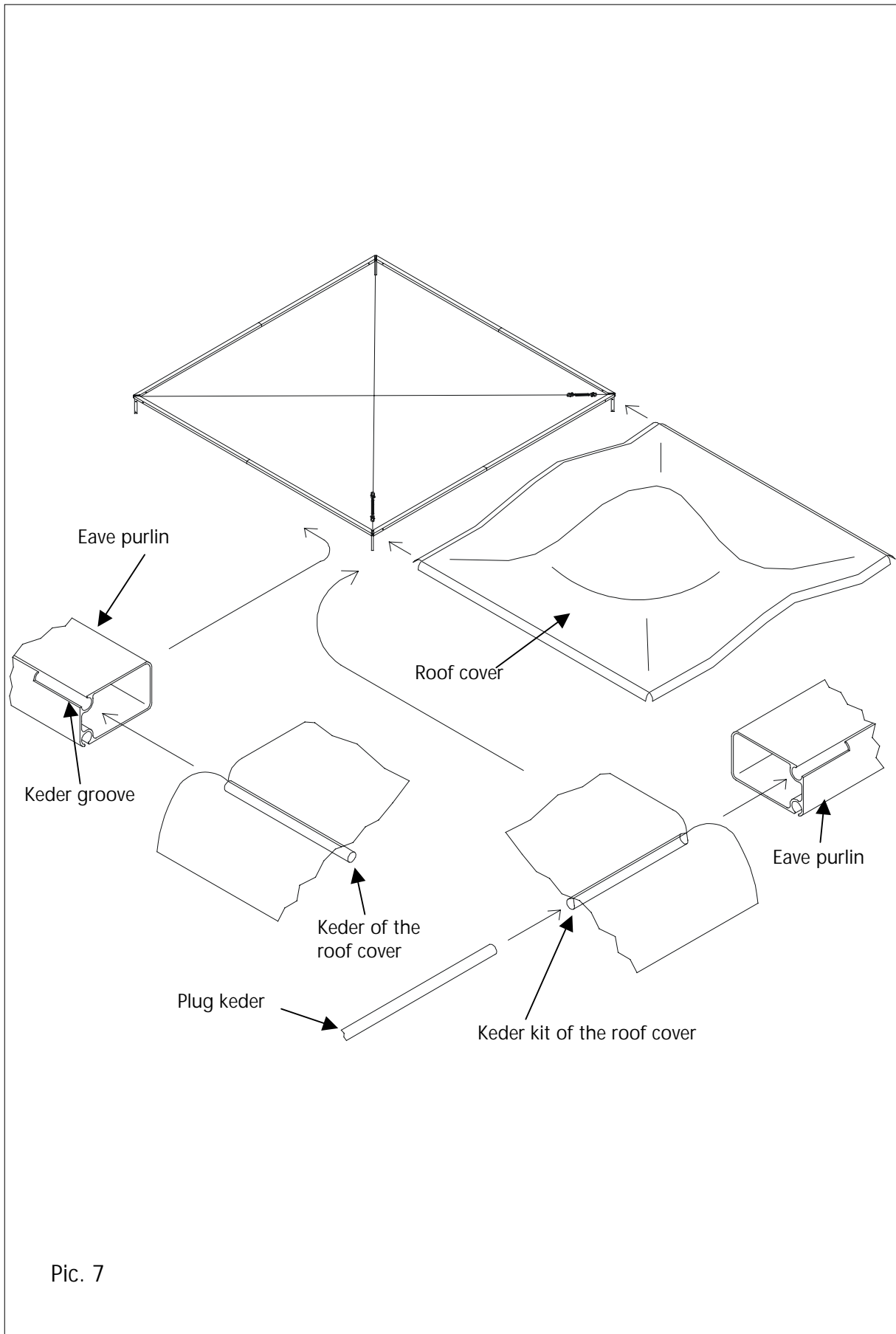
Pic. 4



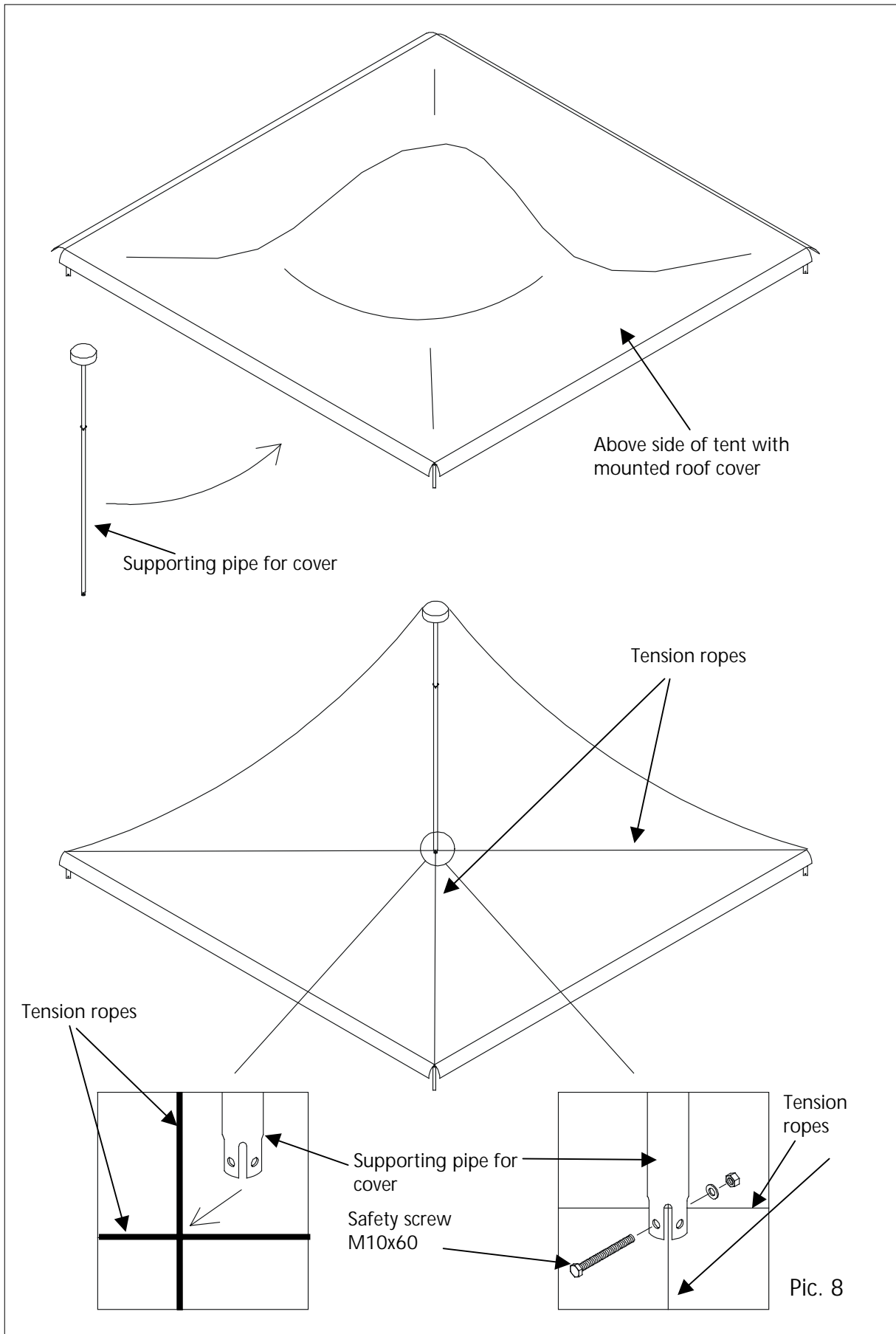
Pic. 5

- 2.6 Mount the tension ropes. Screw on the shackles and hang them to the eyes each of the corners of eave connections. Screw on the toggle-type fastener but do not screw them on completely. Screw down the shackle (pic. 6).
- 2.7 Prestress loose the tension ropes through the toggle-type fastener.
- 2.8 Place from one side the roof cover to the right position (pic. 7).
- 2.9 Feed the keder of the roof cover into the keder groove of the eave purlins and pull the cover from the opposite side of tent. You can use wires for this pulling, if provided (pic. 7).
- 2.10 Put in the keder kits to both of free keder grooves of the rest eave purlins (pic. 7).
- 2.11 Push in the plug keder.
- 2.12 Do not push in the plug keder completely. Let free some centimetres outside to make possible the dismantling later.





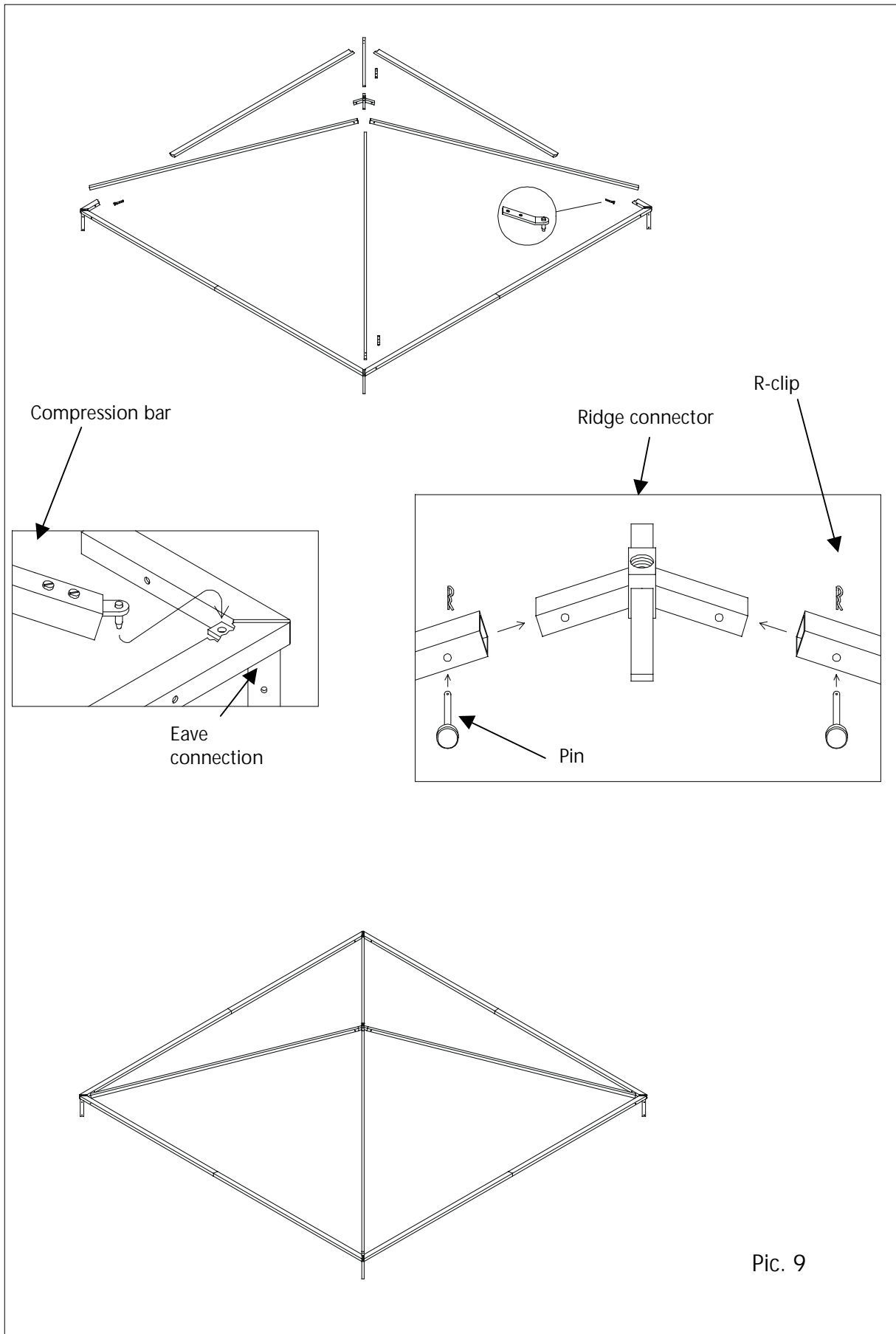
Pic. 7



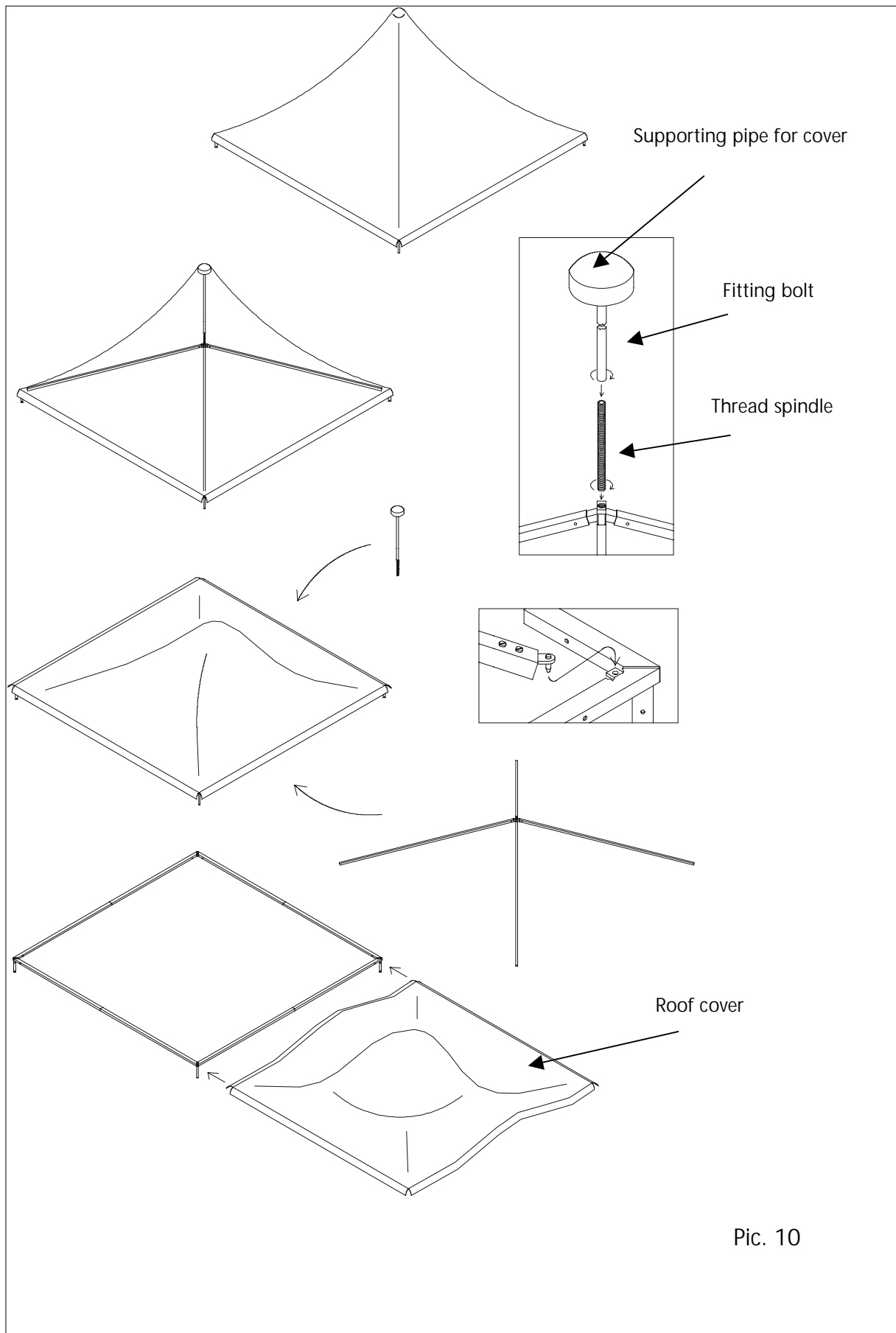
Pic. 8

## Type PT Light 5x5m + 6x6m with compression bars:

- 2.13 In place of the tension ropes compression bars will be set with ridge connectors. This model is for both tents types available and can also be ordered separately.
- 2.14 Put together all of each two pieces eave purlins and screw them down with screws M 10x100 (pic. 5). (for the type Party tent Light 3x3m this mounting step has been cancelled).
- 2.15 Set to the right position the eave purlins and screw them down with screws M10x100 (pic. 4).
- 2.16 Place from one side the roof cover to the right position (pic. 7).
- 2.17 Feed the keder of the roof cover into the keder groove of the eave purlins and pull the cover from the opposite side of tent. You can use wires for this pulling, if provided (pic. 7).
- 2.18 Put in the keder kits to both of free keder grooves of the rest eave purlins (pic. 7).
- 2.19 Push in the plug keder.
- 2.20 Do not push in the plug keder completely. Let free some centimetres outside to make possible the dismantling later.
- 2.21 Lay down (pic. 9) the 4 compression bars to the ridge connector.
- 2.22 Lift a little the mounted above side of tent. Place each of the pins of the compression bars to the corners of the eave connections and push in the ridge connector to the open profiles (pic. 9).
- 2.23 Place the thread spindle to the nut and screw it below. The boring of the toggle is on the side of the spindle below. The fitting bolt for the support pipe for the cover has been set loose and can be moved out.
- 2.24 Set the borings of the ridge connector and the compression bars in a way that they are covering each other and screw them with pins. Fix tightly the pins with a R-clip (pic. 9).



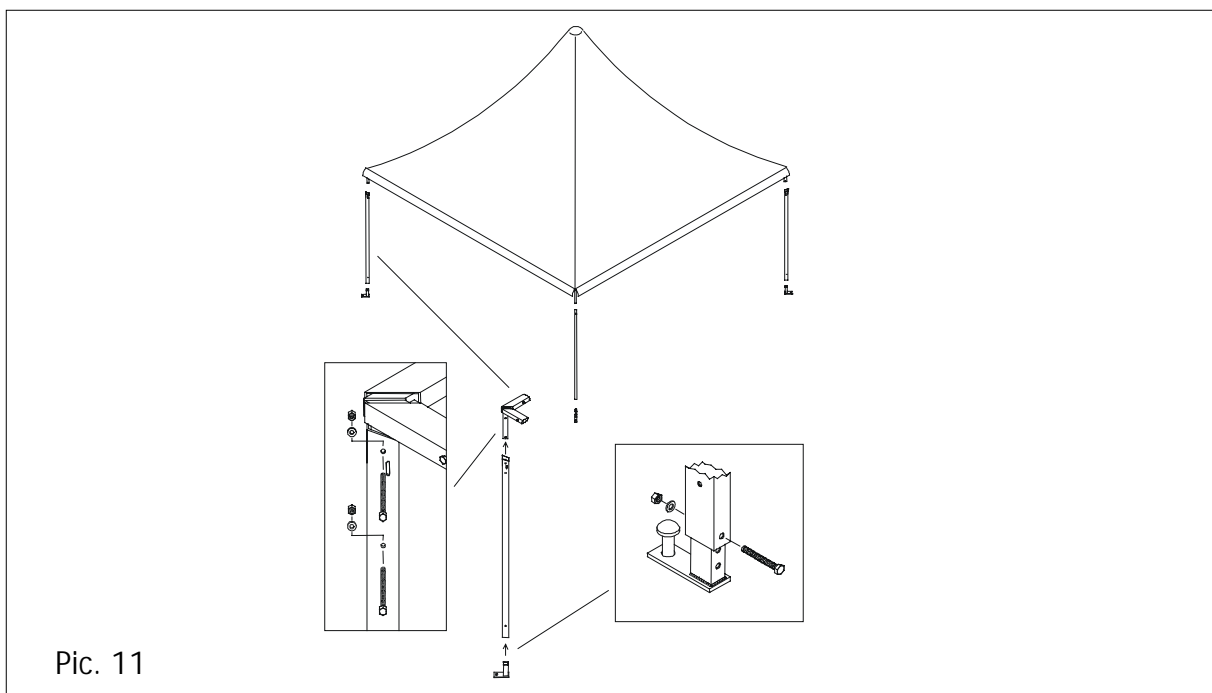
Pic. 9





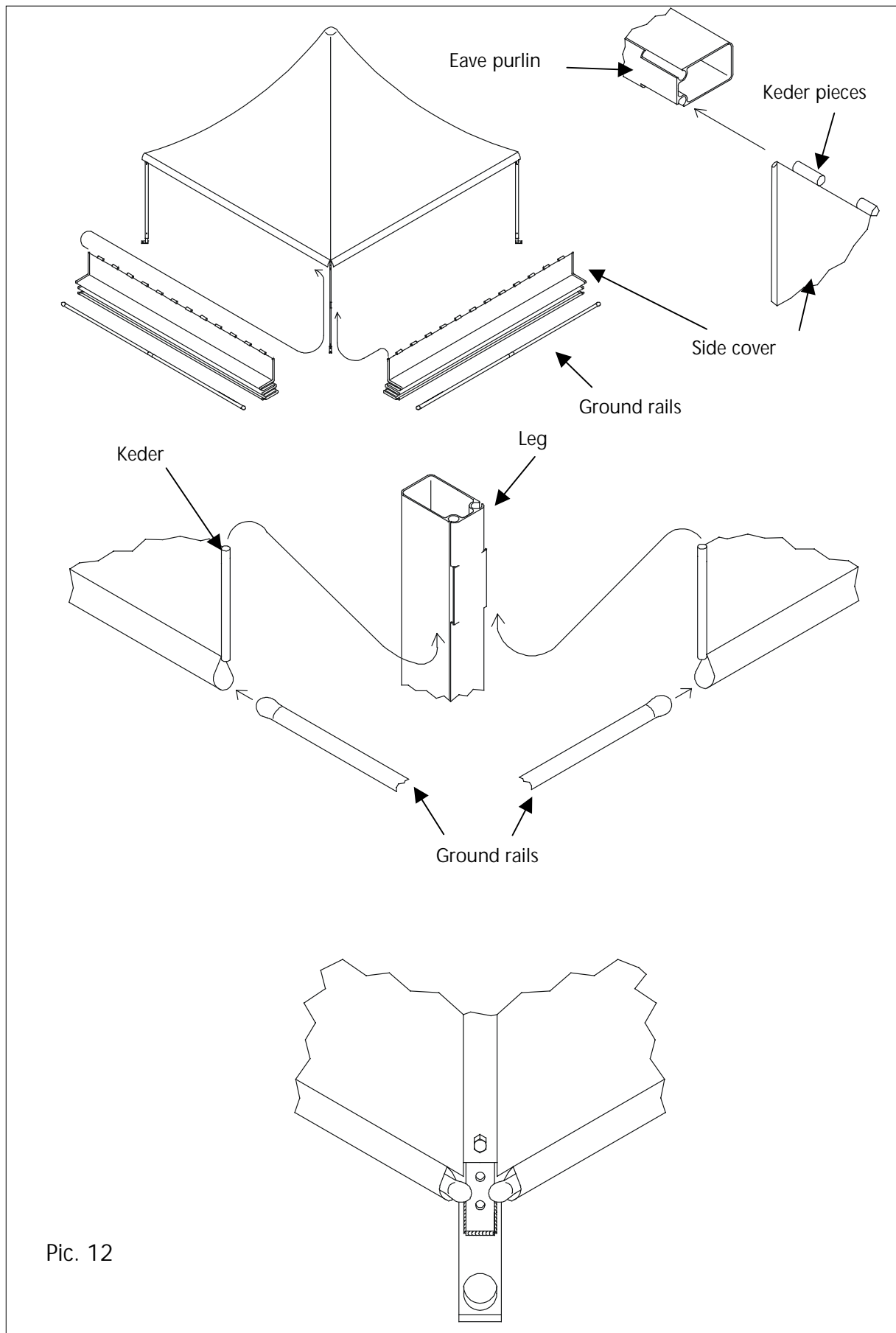
### 3 Erecting

- 3.1 Lift a little the mounted above side of tent. A person has to go through under the roof cover in order to set the supporting pipe for the cover to the middle of the crossed tension ropes resp. by the type of the compression bars the support pipe for the covers will be placed on the fitting part of the spindle. Now push upwards the roof cover through the supporting pipe for covers (pic. 8 and pic. 10).
- 3.2 Only for types with tension ropes: fix tightly the supporting pipe for covers with a screw (pic. 8).
- 3.3 Place the legs into the baseplates and screw them with a screw M12x100.
- 3.4 Pull up to one side the mounted above side of the tent and set the legs to each positioning of both first eave connections. Screw them down with a screw M10x60.
- 3.5 Let now the tent down (on the mounted legs) and lift the opposite side of tent. Place both of the rest legs into the eave connections and screw them down with a screw M10x60.
- 3.6 Adjust the tent. Differences on the height can be adjusted through the telescopes to the connection legs/baseplates. Beat in an earth-anchor in every baseplate.
- 3.7 Check the screws, that they are all fixed tightly and stretch the tension wires to the toggle-type fasteners. Resp. by the type of the compression bars the support pipe for the covers will be twisted upwards of the spindle pushing against the roof cover in order to stretch it.



## 4 Mounting of the side covers

- 4.1 Bring the side cover to the longest sides of tent (pic. 12).
- 4.2 Allocate the covers and lay them down. The edge with keder pieces are showing upwards.
- 4.3 Feed upwards the keder of the side covers into the receiver of the keder groove of the legs and push it totally upwards.
- 4.4 On the same way feed underneath the below half part of the cover and push it totally below.
- 4.5 Feed the keder pieces, on the top edge of the side covers into the groove of the eave purlin.
- 4.6 Repeat the points 4.3 up to 4.5 for all side covers.
- 4.7 Screw down to the sleeves both of the parts of the ground rails (cancelled in Party tent Light 3x3m).
- 4.8 Push the ground rails into the kits of the ground rails (pic. 12).



Pic. 12

## 5 Dismantling

For the dismantling of the tent you have to follow the instructions in reverse to the construction.

### In principle of dismantling:

All the covers of the tent ought to be **dry** before you start folding.

After dismantling you have to mark, sort and load all the building components immediately.

The using of the peg puller, which is available as an accesory, makes easier the removing of the earth anchors.

- 5.1 Dismantle the ground rails.
- 5.2 Dismantle and lay on clean ground the sides covers and fold them together.
- 5.3 Pull the anchors.
- 5.4 Pull the tent to one side and remove both of the first legs. Take off the side of the tent from the eave connections.
- 5.5 Pull the tent to the other side and remove the rest of the legs. Take off the side of the tent from the eave connections.
- 5.6 Lift the above side of the tent, make loose the tension ropes through the toggle-type fastener and dismantle the supporting pipe for covers resp. compression bar, ridge connector and supporting pipe for the covers.
- 5.7 Pull out the plug keder.
- 5.8 Dismantle and lay on a clean place the roof covers and fold them together.
- 5.9 Dismantle the tension ropes.
- 5.10 Dismantle the eave purlins and the eave connections.
- 5.11 Dismantle the legs and baseplates.

## 6 Service notes

### 6.1 Construction of the tent

- 6.1.1 The restretching of the wind bracings, treaded bolt connections and roof racings is requisite:
- every 3 months (stand-by time)
  - after hot periods
  - after a strong gale
- 6.1.2 Pay attention to the earth-anchors, that is deep seated in a solid position.
- 6.1.3 Check for deformation or damage.
- 6.1.4 If there are any damaged parts, then change them immediately with new original spare parts.

### 6.2 Bedding and transport

To avoid damage to the aluminium profile you have to bed and to transport all the aluminium profiles on a smooth area (e.g. **RÖDER** transport units) and you have to pay attention to the profile, that stand out on the smaller profile side.

### 6.3 Routinely visual inspection

Periodically it carry out a visual inspection after every use (e.g. after every event day):

The bolt- and pin connections have to be inspected.

Dirty covers have to be cleaned (the washing can take place in our own **RÖDER** laundry).

## 7 Ratings

### 7.1 Construction of the tent

All the dimensions have been given axial

Tent's length and width:	3x3 m / 4x4 m / 5x5 m / 6x6 m
Ridge height:	3,97 m / 4,77 m / 5,39 m / 6,01 m
Side height:	2,29 m
Leg profile:	81 x 48 mm
Eave purlin profile:	81 x 48 mm
Material main construction:	aluminium, anodic oxidation; steel zined
Material connection parts:	Steel zined
Kind of connection:	Eave connection
Longest piece of part:	3,0 m
Anchorage:	Earth-anchor Ø 25 mm x 800 mm

### 7.2 Tent cover

The quality B 101735 of DIN 4102 B1, M2, BS 3119/3120 has proved that it is flame retardent.

### 7.3 DIN ISO Normen

**RÖDER** tents have the following DIN ISO standard specifications:

DIN 1054   DIN 1055   DIN 1480   DIN 1808   DIN 3066   DIN 4112  
 DIN 4113   DIN 4114   DIN 4115   DIN 18800   DIN EN ISO 9004-1