



# User Instructions

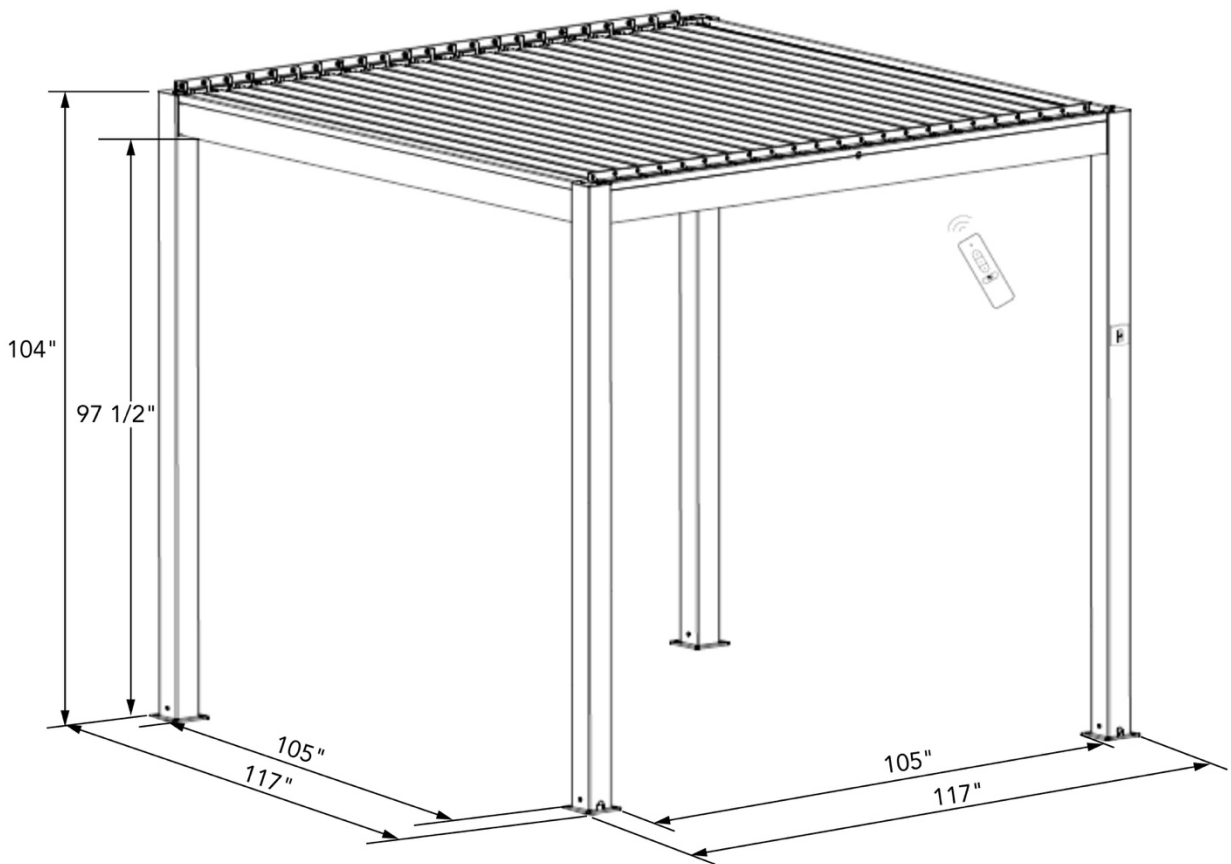
**Villa Pergola for motorized operation**

**Size: 10'x10'(300x300cm)**

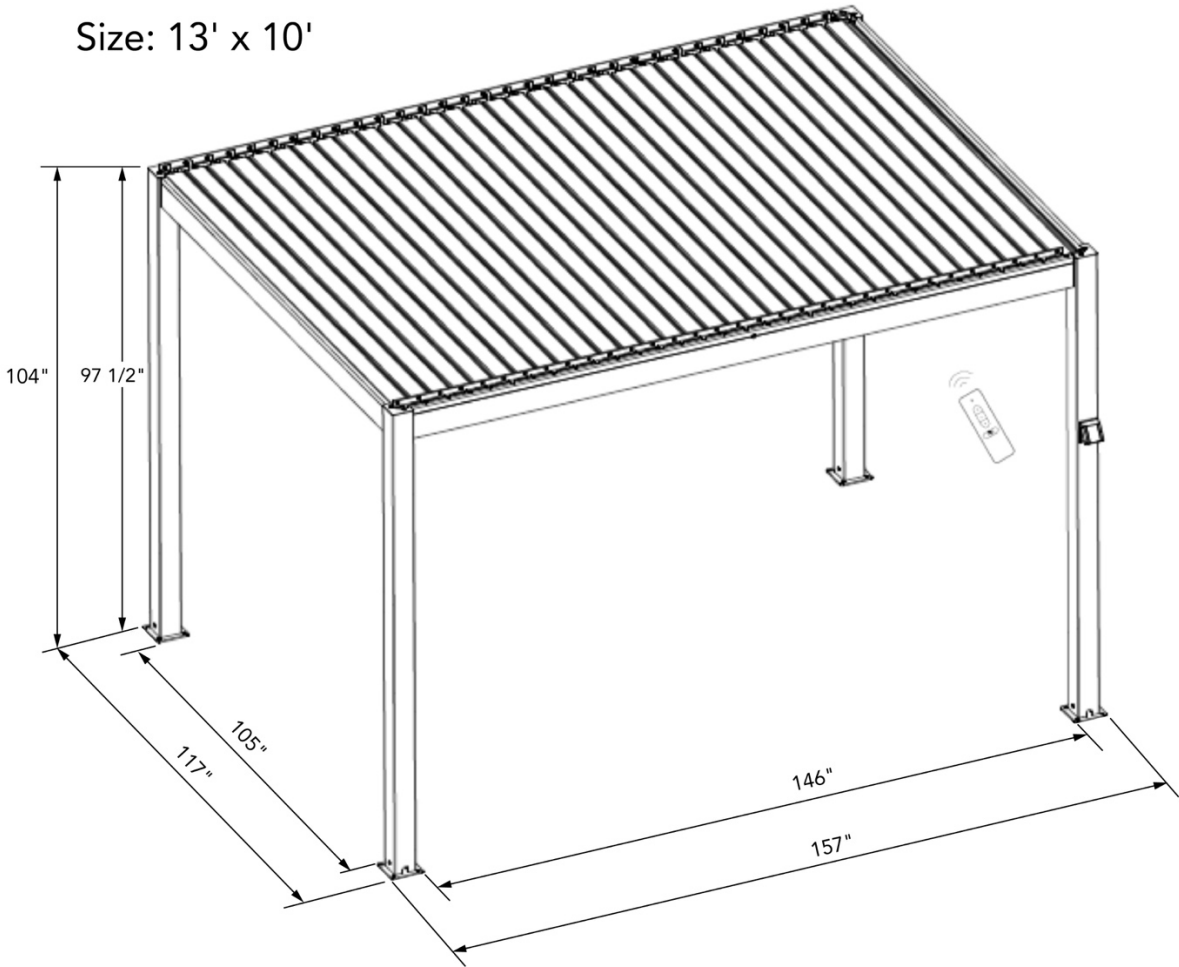
**10'x13'(300x400cm)**

**13'x13'(400x400cm)**

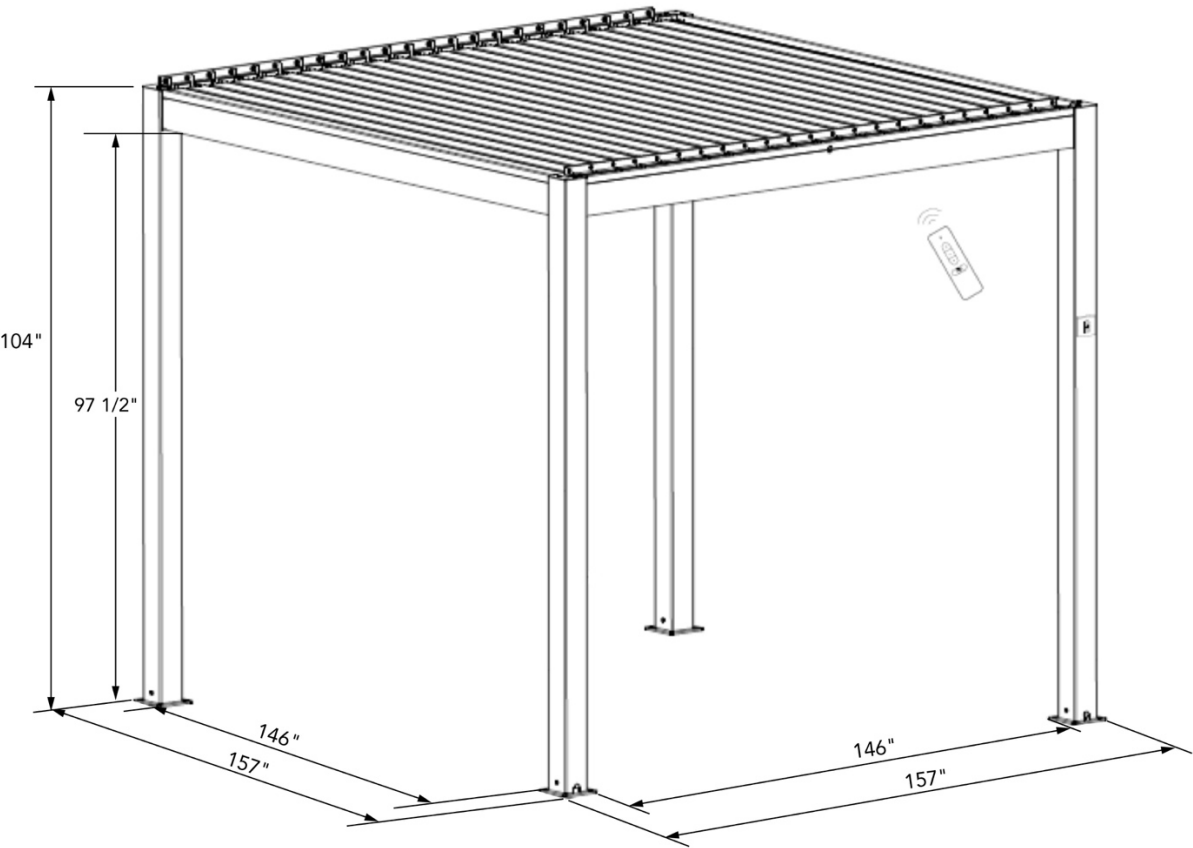
Size: 10' x 10'



Size: 13' x 10'



Size: 13' x 13'



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**Attention:**  
**Read this instruction manual carefully and completely before mounting and usage.**  
**Keep this manual for future reference.**

Dear Customer,

Congratulations and welcome to our Villa Pergola family. To enjoy your Villa Pergola for its lifetime and for you and other's safety, please follow the assembly instructions.

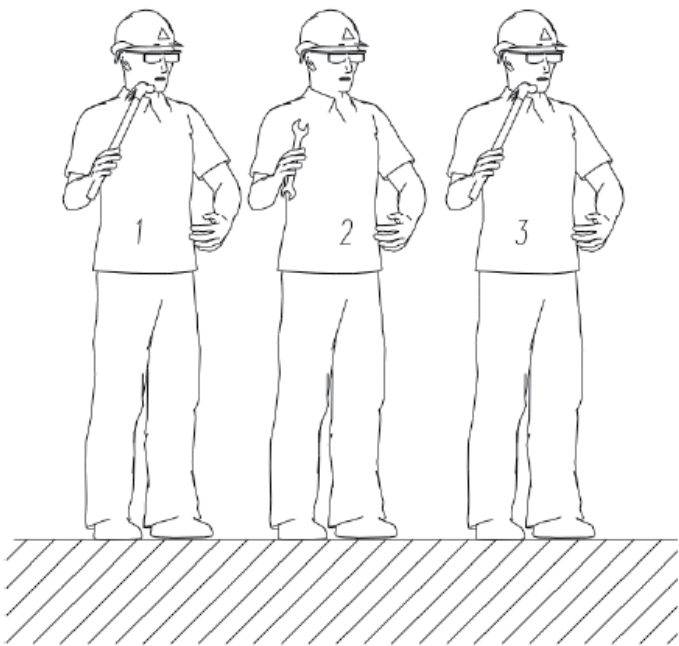
Before you start the assembly process and using the Pergola, we suggest you are best to get familiar with this product. Make sure all parts listed up in below packing lists are delivered and intact. If you find that there are parts missing or damaged please do not install the pergola but contact us immediately. Do not start the assembly process if parts are missing or defective.




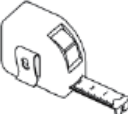


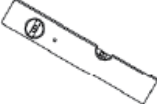

**Tools and man force**

Recommended: 2 or 3 people

Additional tools :

1. Ladder
2. M10/13 open wrench supplied
3. Rubber mallet
4. Tape measure
5. 5mm hexagon wrench supplied
6. Pencil
7. Spirit level
8. Electric drill



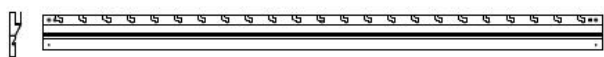



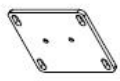





























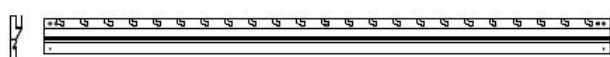



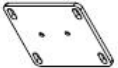



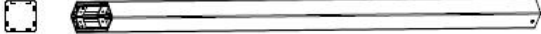












## Parts List

Please check all parts against the parts list before commencing construction of pergola.

### SIZE: 10'x10' or 300X300CM PARTS LIST:

①	 x8	⑨	 x1	A	 x1
②	 x1	⑩	 x16	B	 x1
③	 x4	⑪	 x4	C	 x2
④	 x4			D1	  x1
⑤	 x2			D2	  x2
⑥	 x54			D3	  x1
⑦	 x46			E	  x2
⑧	 x46			F	  x2
				G	  x21
				H	  x1
				I	  x1
				J	  x2

**SIZE:10'x13' or 300X400CM and 13'x13' or 400X400CM PARTS LIST:**

①		x 8	⑨		x 1	Ⓐ		x 1
②		x 1	⑩		x 16	Ⓑ		x 1
③		x 4	⑪		x 4	Ⓒ		x 2
④		x 4				Ⓓ1		x 1
⑤		x 2				Ⓓ2		x 2
⑥		x 72				Ⓓ3		x 1
⑦		x 64				Ⓔ		x 2
⑧		x 64				Ⓕ		x 2
						Ⓖ		x 30
						Ⓖ		x 1
						Ⓖ		x 1
						Ⓙ		x 2

**Hardware and other parts:**

①M8x20 countersunk screw	②50 to 40 connector
③Base plate	④Upright cover
⑤M10 screw cap	⑥M8x20 Hexagon bolt
⑦Plastic Spacer	⑧Locking nut
⑨Motor with motor bracket	⑩M8X100 expansion bolt
⑪Gutter connector	

### Aluminum profile parts list:

Ⓐ Beam with slots	Ⓑ Beam with motor direction & slots
Ⓒ Beam	Ⓓ <sub>D1</sub> Post + post connector
Ⓓ <sub>D2</sub> Post + post connector	Ⓓ <sub>D3</sub> Post + post connector
Ⓔ Gutter	Ⓕ Gutter
Ⓖ Common louver	Ⓖ Centre louver
Ⓛ Driving louver	Ⓛ Control rod

## Product Description

Make the most of your outdoor living area with your pergola. Relax and enjoy the outdoors while being protected from sun. The coated aluminum frame pergola is perfect for shading your garden, deck, courtyard and swimming pool.

## Important Safety Instructions

**Warning:** For the safety of you and other persons it is important to follow below instructions and obey warnings.

### Symbol explanation



This warning triangle calls attention to hazards that can lead to death or to severe injuries or which are important for the functioning of the Pergola.



This sign identifies important notes.

### Safety instructions



**To install this pergola technical knowledge is necessary.** Do not mount this pergola yourself but contact a professional workman for help if

- ♦ you are unsure if the pergola can be mounted on the place you chose for installation.
- ♦ you do not understand the instruction manual or parts of it.
- ♦ you do not have necessary tools available.
- ♦ you do not have necessary technical knowledge



**A minimum of three healthy adults are required to move and install the pergola** as the product is big and heavy. Do not try to install the pergola alone. If the pergola falls, it could cause serious injuries and damages! Contact an authorized assembler for help.



**Do not install the pergola when you find damage parts or that parts are missing.** Contact your dealer.



**Keep children and pets out of the working area during assembly and adjustments.**



**This product and its fixing parts are only suitable for installation on a plain cement wall or stable brickwork. If the wall/brickwork shows cracks you have to consult a professional.**



**Nobody is allowed to change the products' design and structure** without the permission of manufacture or authorized deputy.



Please make sure that your hands are clean at the time of the assembly; otherwise you may soil frame.



**Nobody is allowed to climb onto the Pergola. Hanging anything on the Pergola is forbidden.**

Sheeting was used to protect the paint. This must be removed afterwards.

This structure is a non-permanent structure and the warranty does not cover damage incurred under extreme weather conditions including heavy rain, high winds or if exposed to high heat from heaters or BBQs.






Safety precautions should always be followed when assembling and using this product to reduce the risk of personal injury and damage to equipment. Please read all instructions before assembly and use. Never leave children unattended around/under this pergola. Do not attempt to assemble or use the pergola in moderate or heavy wind conditions. Always **keep the pergola louver open** and secure it during heavy winds or extreme weather conditions to avoid damage to the pergola or personal injury.

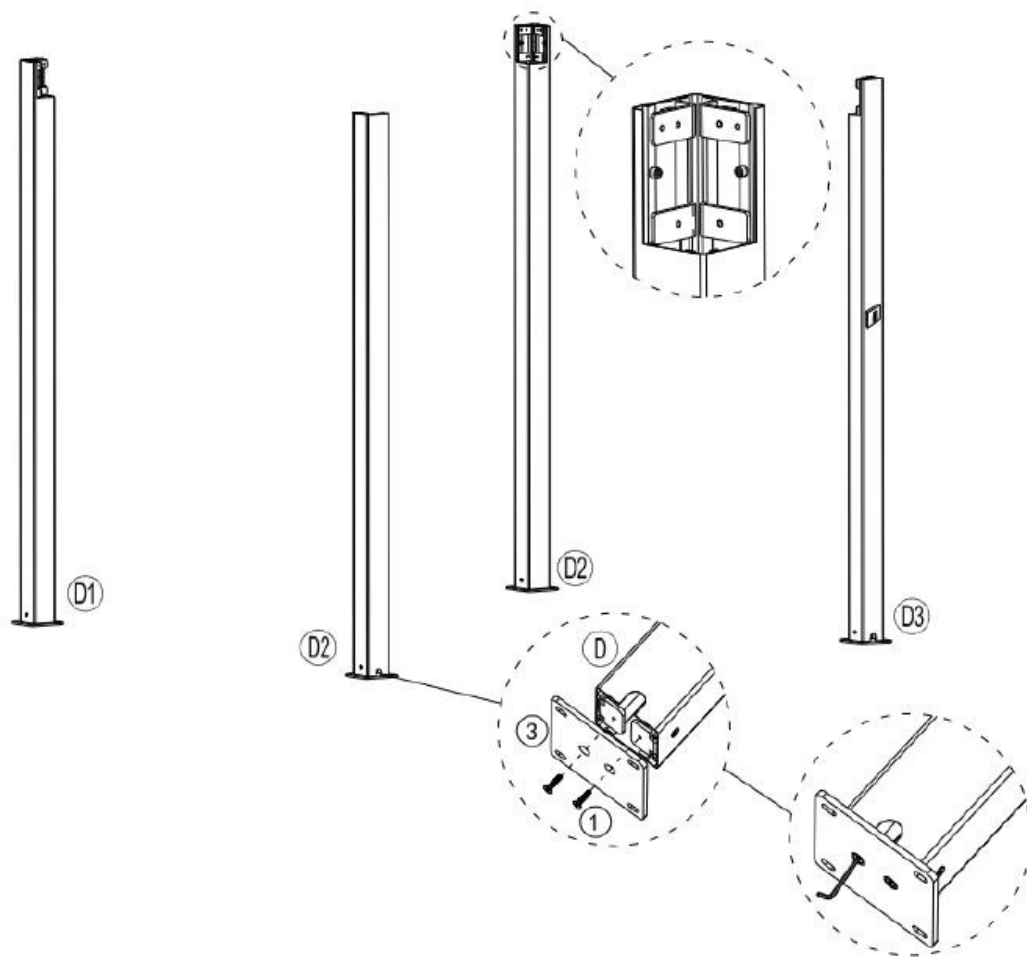
## Mounting and usage

### Step 1

Attach base plate ③x4 to the bottom of posts ( ① x1, ②x2 ,and ③ x1),use bolts ①x8 to attach with hex key or electric drill

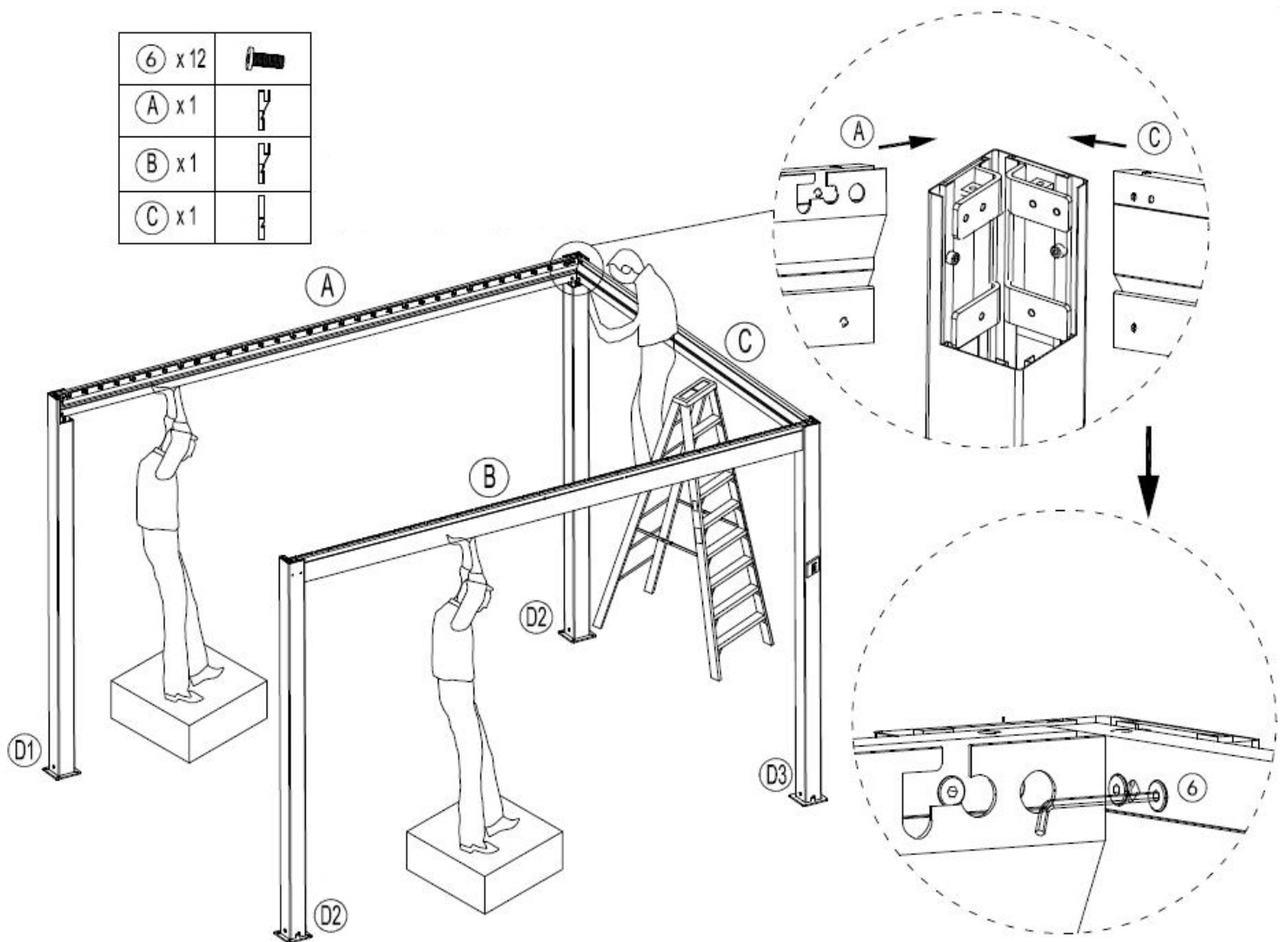
② posts should be installed diagonally as below

① x 8	
③ x 4	
① x 1	
② x 2	
③ x 1	





## Step 2

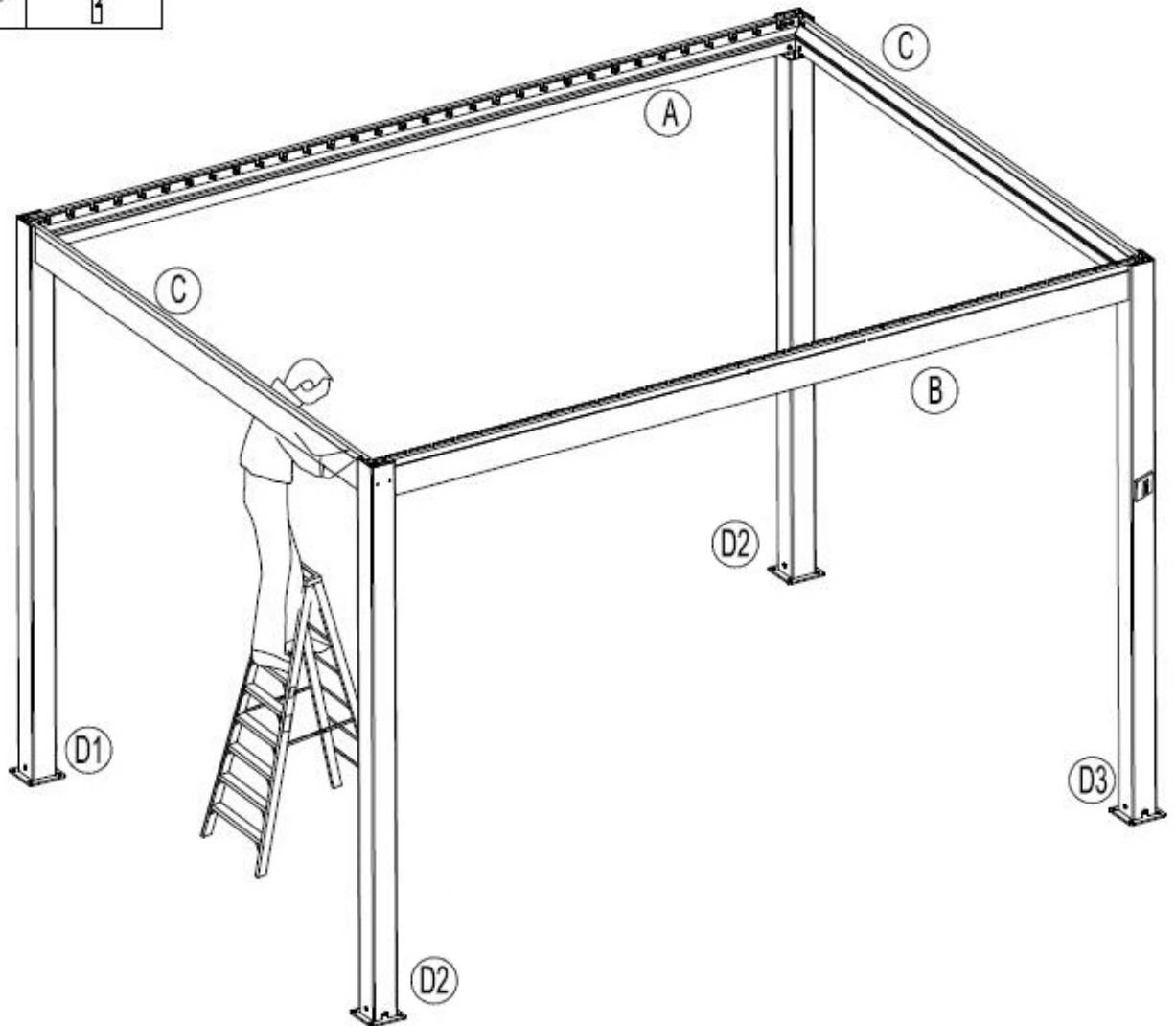
Attach beam ④x1 ⑤x1 and ③beam x1, use bolts ⑥ to fasten



### Step 3



Attach beam C x1, use bolts 6 x12 to fasten

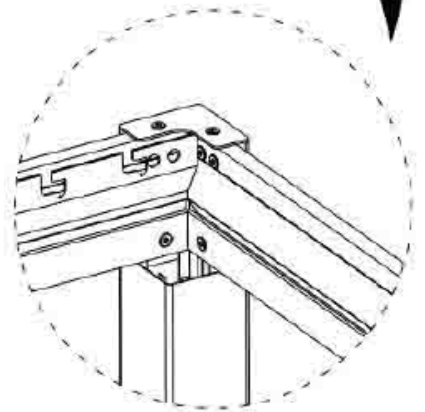
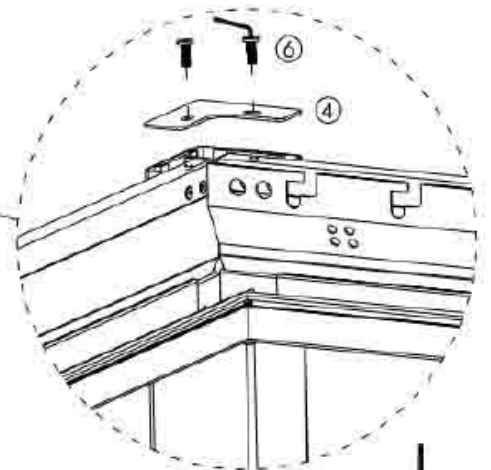
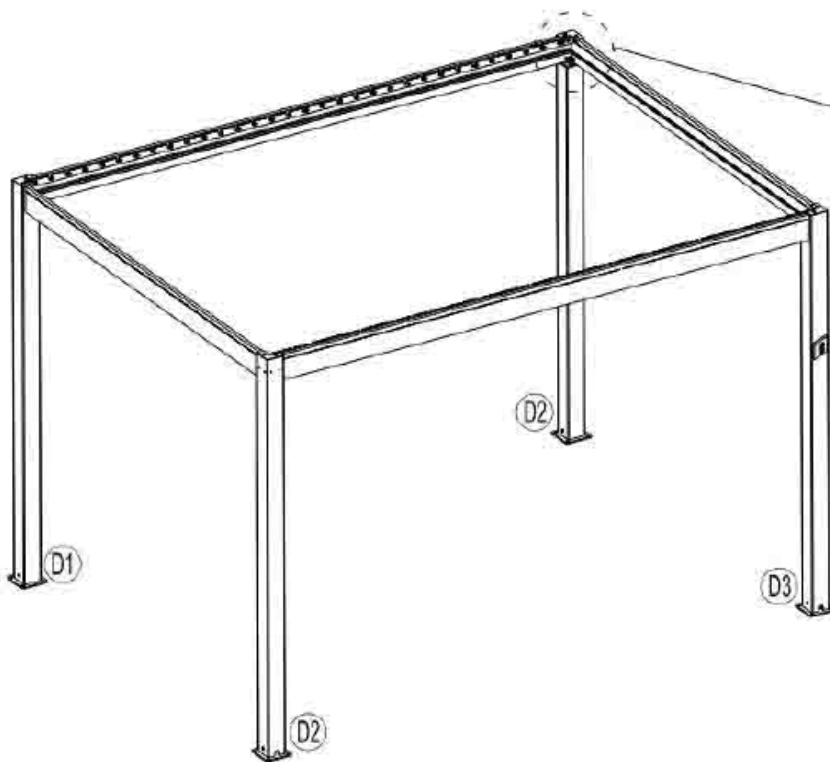
6 x12	
C x1	



## Step 4

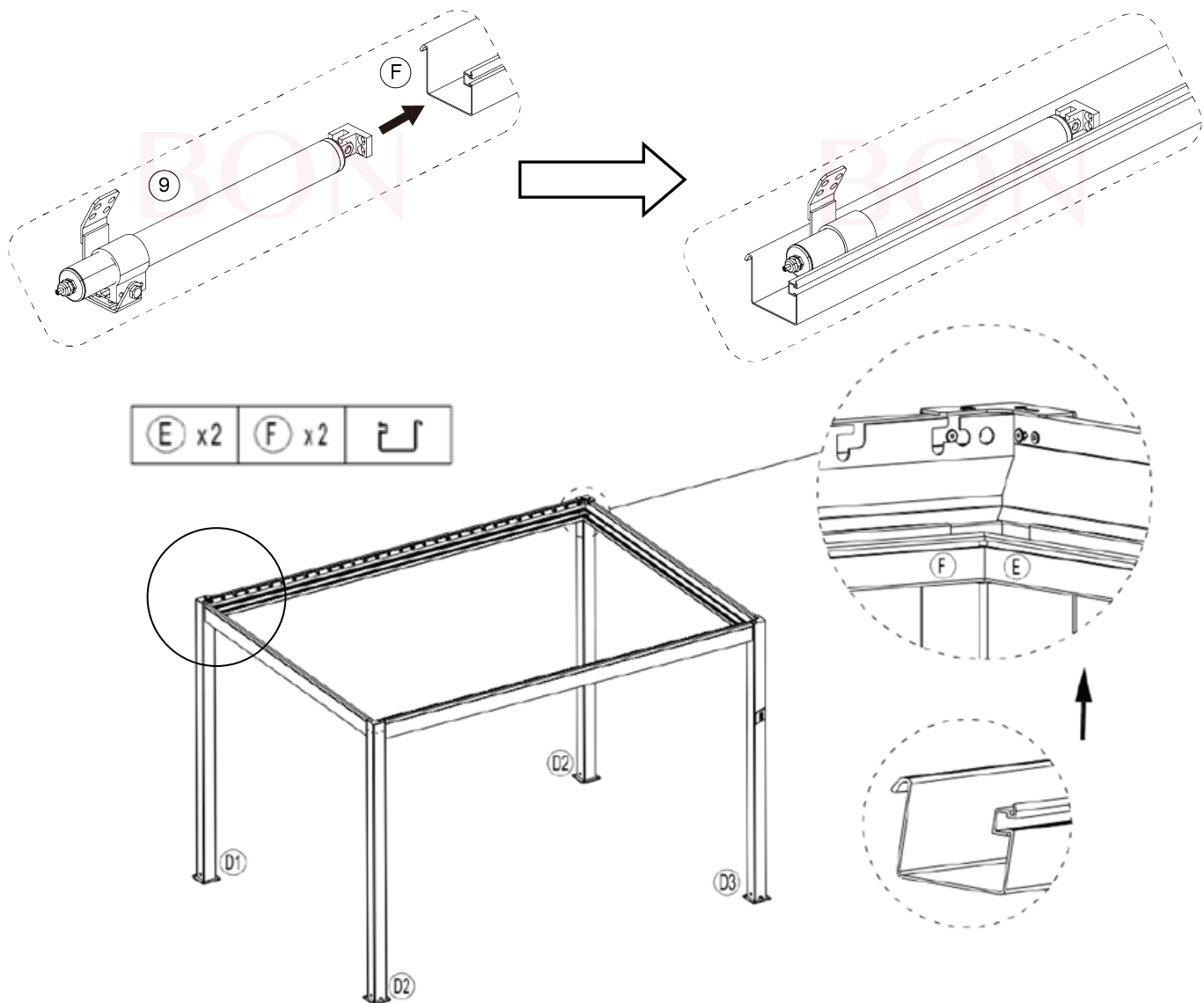
Attach upright cover ④x4, use bolts ⑥x8 to fasten

⑥ x 8	
④ x 4	



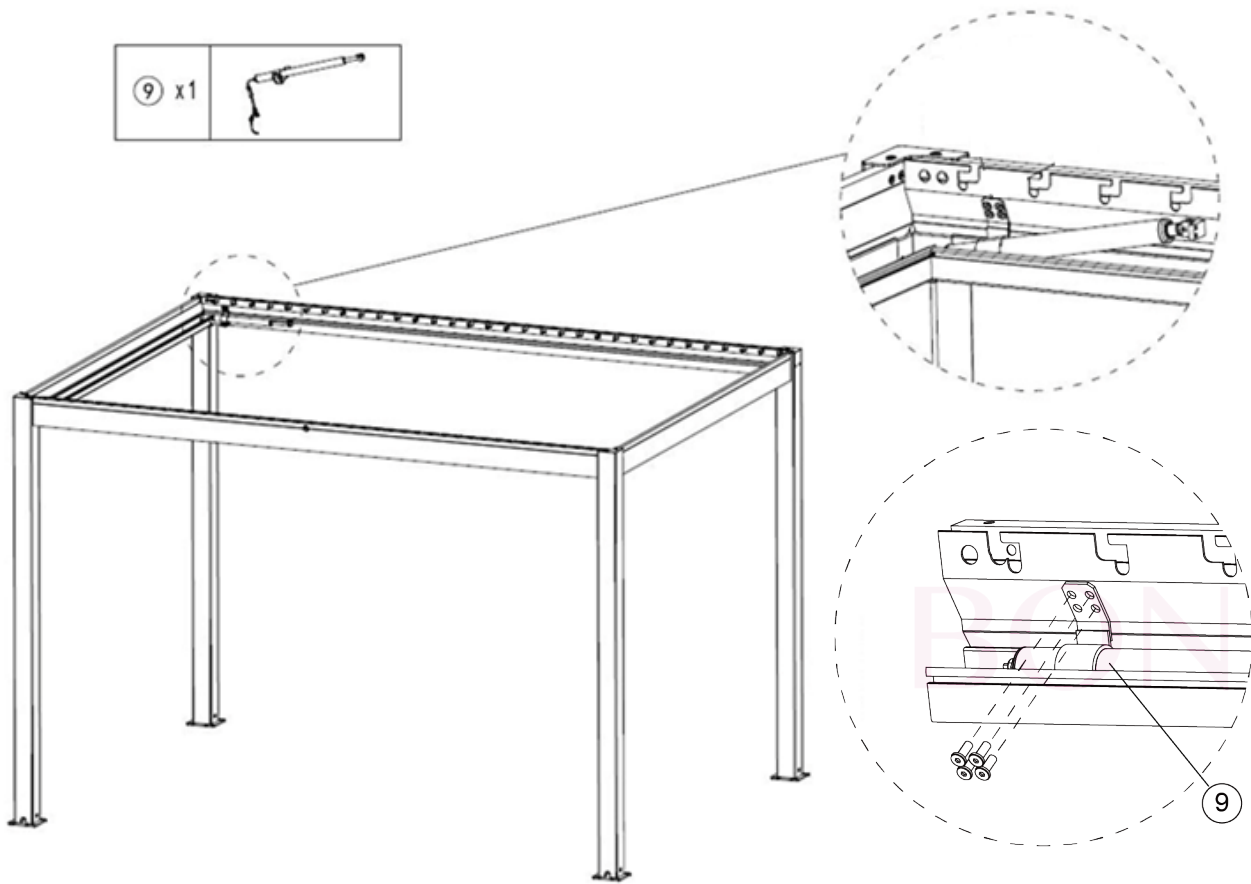
## Step 5

1. Slide the ⑨ motor into ⑦ gutter before hooking onto the beam in the direction as shown below.
2. Attach all four gutters (⑤x2 and ⑦ x2 )by hooking inside the ①, ②, ③ beams



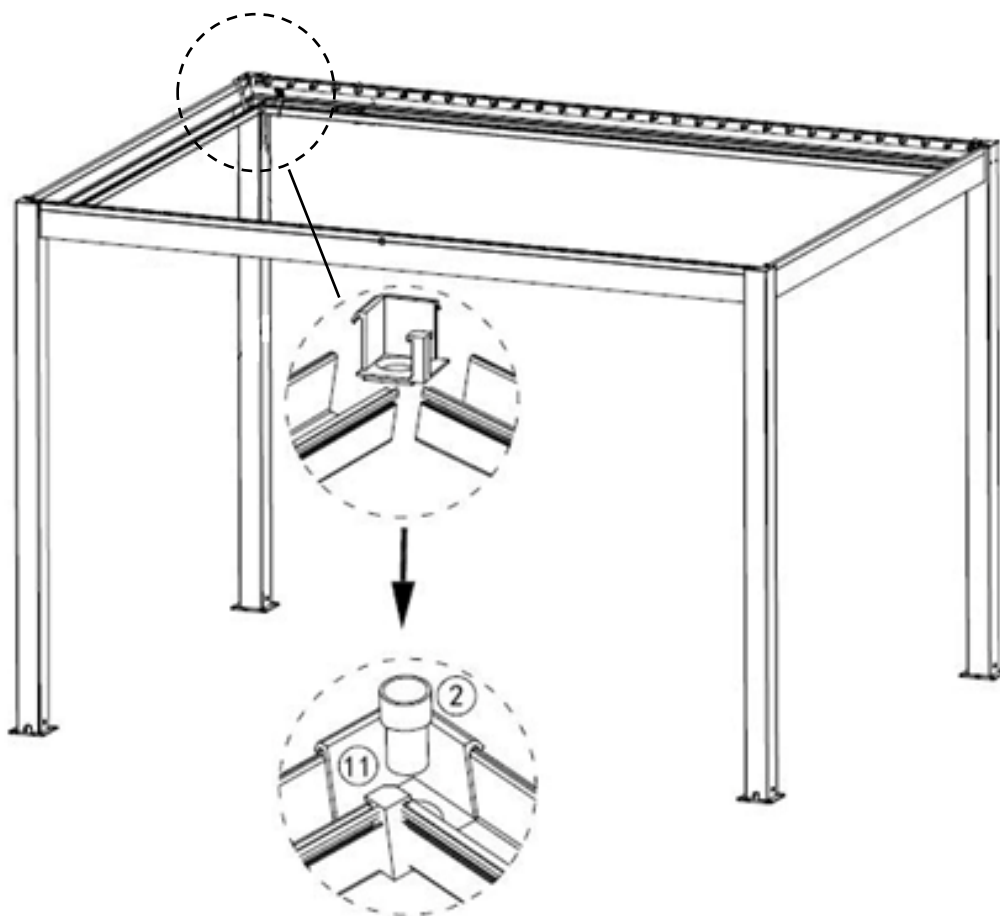
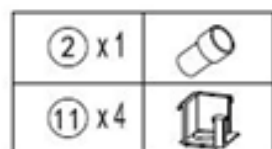
## Step 6

Fasten motor ⑨x1 with its screws as shown below.



## Step 7

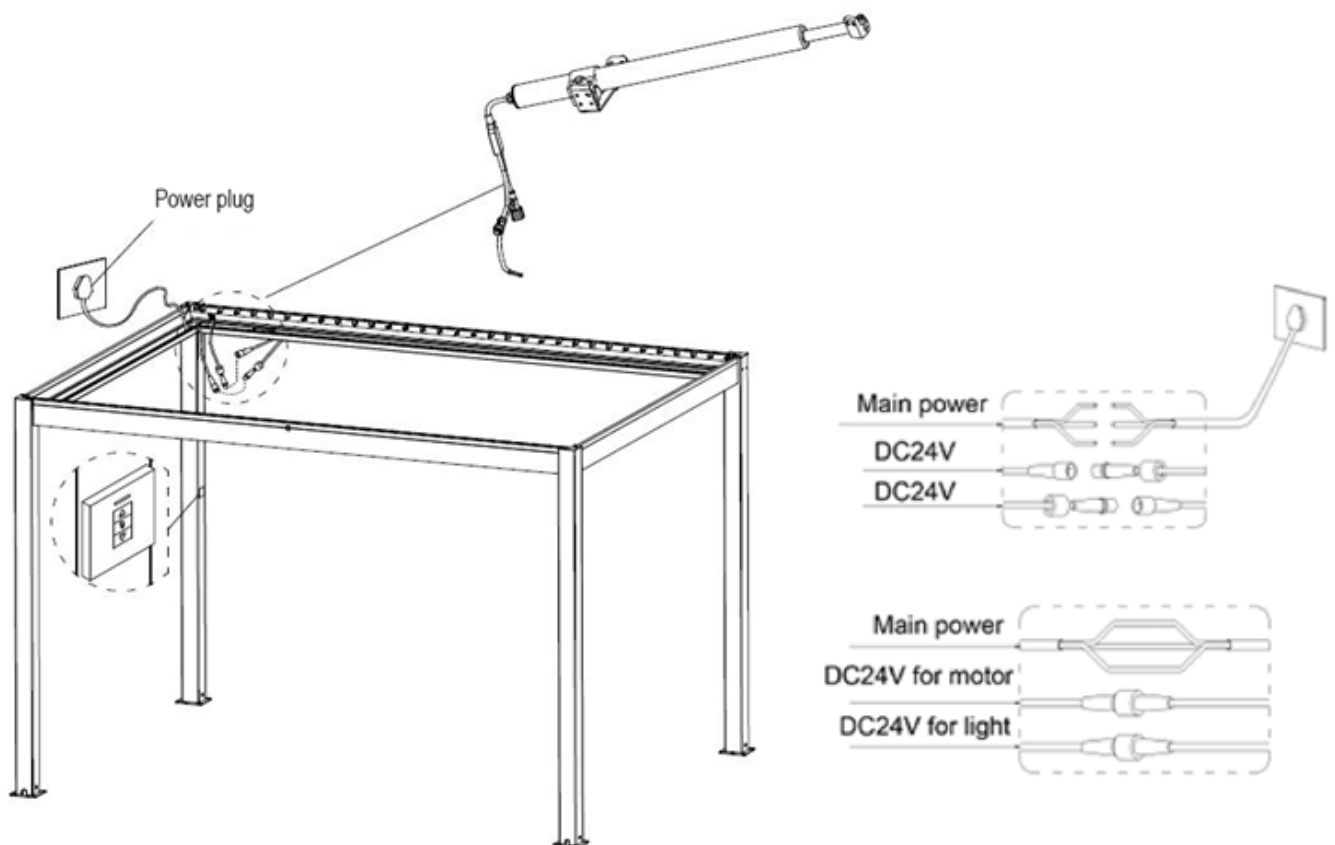
1. Fasten ⑪ x4 gutter connector
2. If motor wire is running downward through the post, use ② to connect with ⑪ as shown below to not allow water drain through this post.



## Step 8

Connect the female and male plugs for the LED lighting (DC24V to DC24V) and motor (DC24V to DC24V) and plug the power cable into local socket.

\*\*\*Note: You can test your motor at this stage. Plug in and use its remote.



## Step 9

Located holes in center of beams(ⒶandⒷ)

1. Place Center Louver on the slot where it is align with the hole visible.

For 10'x10' (300x300cm):

Place **Center Louver** Ⓓinto **12th slot**, lining up with the open holes.

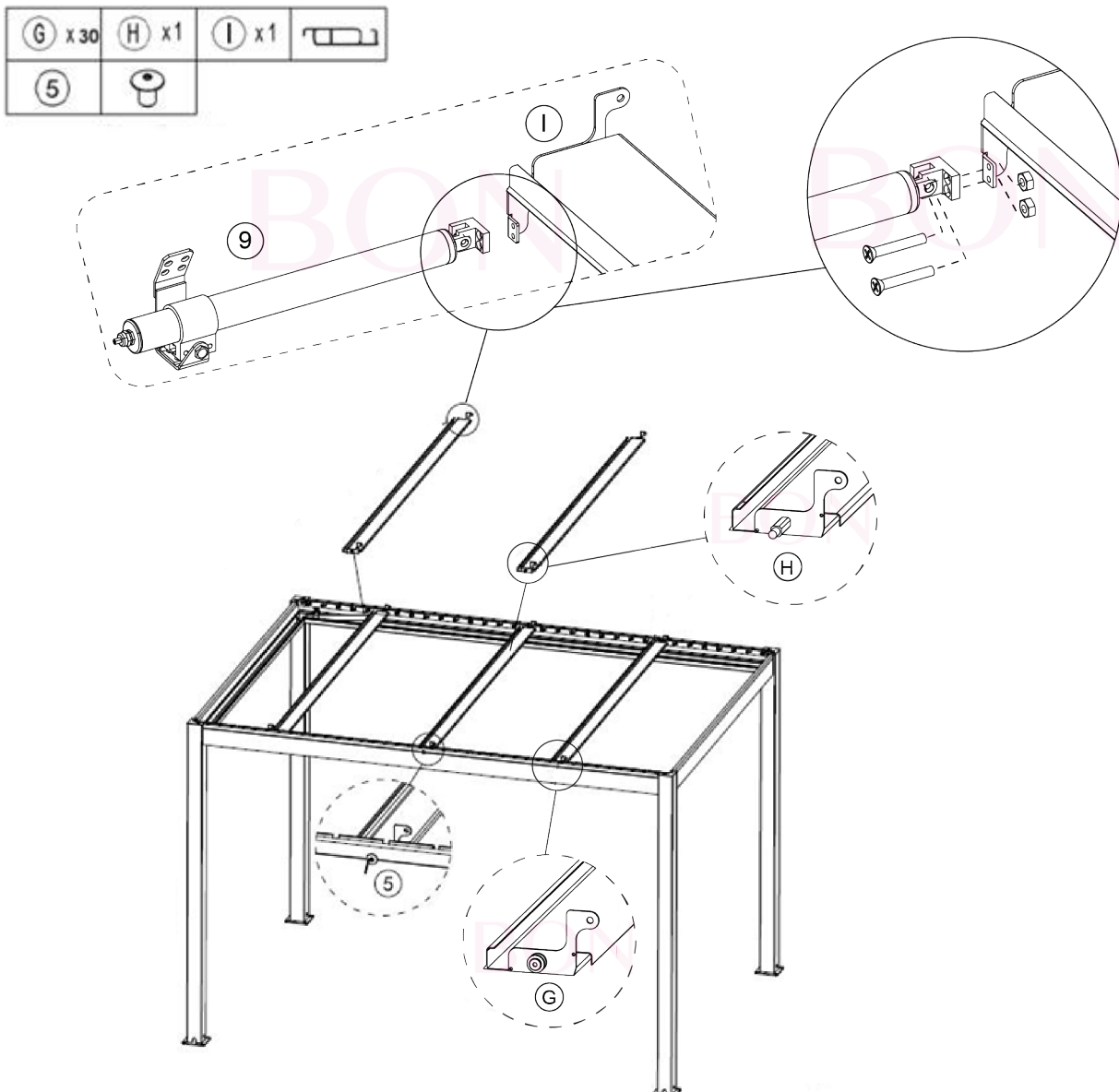
For 10'x13' (300x400cm) and 13'x13' (400x400cm):

Place **Center Louver** Ⓓinto **16th slot**, lining up with the holes for 10'x13' (300x400cm) and 13'x13' (400x400cm) size.

2. Using M10 nut ⒺX2, secure the **Center Louver** in place.

3. Place **Driving Louver** Ⓘin line with **6th slot if you have a 19-3/4" long motor** **and 7th slot if you have a 21-1/2" long motor** on the beam ⒶandⒷ.

4. Place all **Common Louvers** ⒸX21 for 10'x10' (300x300cm) and ⒸX30 for both 10'x13' (300x400cm) and 13'x13' (400x400cm) size into the remaining slots in the beams



## Step 10

Fix ⑩x 2 (flat L-shaped aluminum profile).

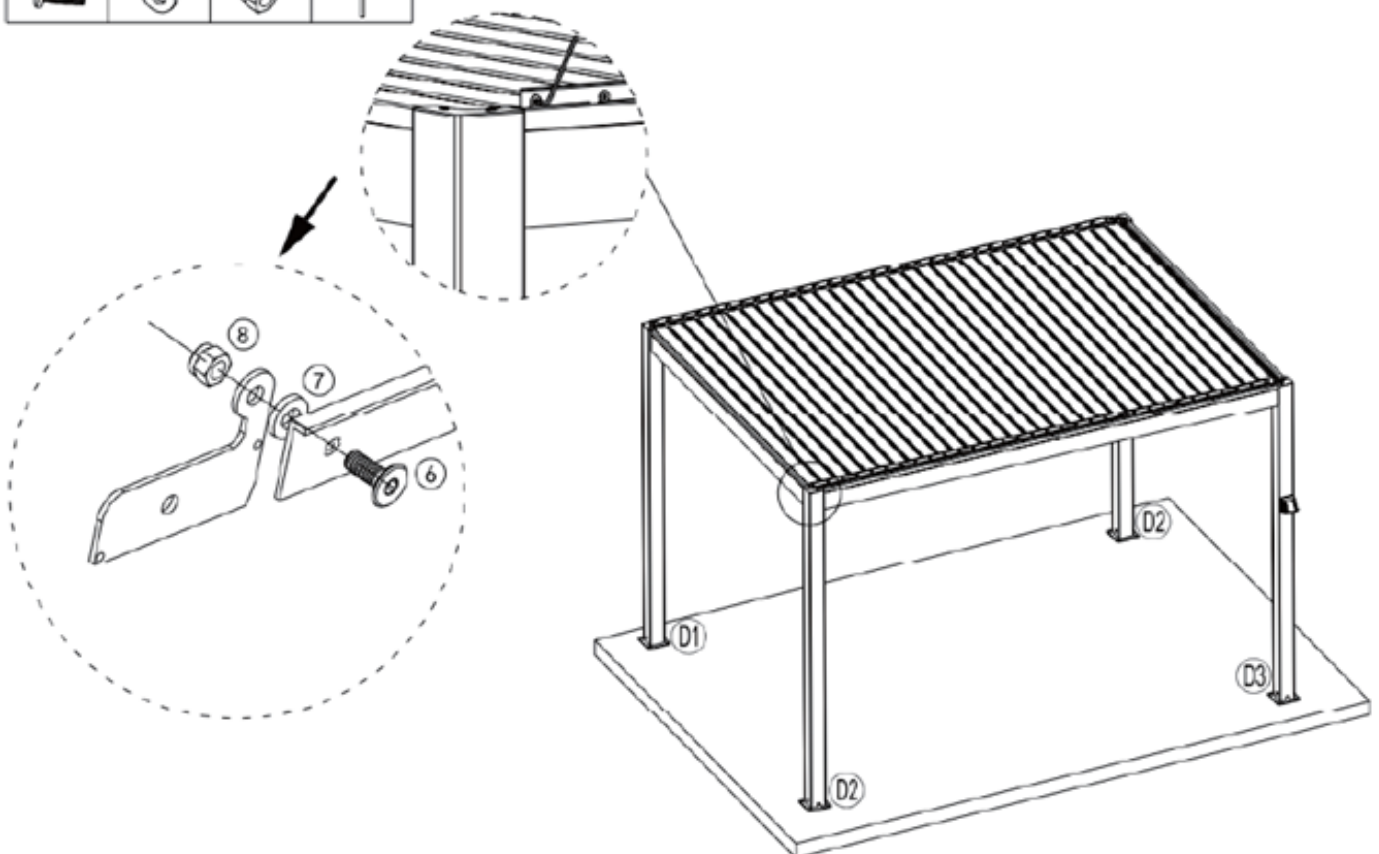
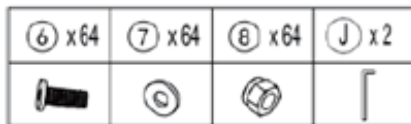
One for each other of the slats is required.

\*Use bolt⑥x46, plastic spacer⑦x46 and nut⑧x46 to tighten for 300x300 cm and 400x400cm size\*.

\*Use bolt⑥x64, plastic spacer⑦x64 and nut⑧x64 to tighten for 300x400 cm and 400x400cm size.

Secure the louvers at each end.

**\*\*\*NOTE: Do not over tighten. Over tightening will prevent louvers from moving/rotating.**



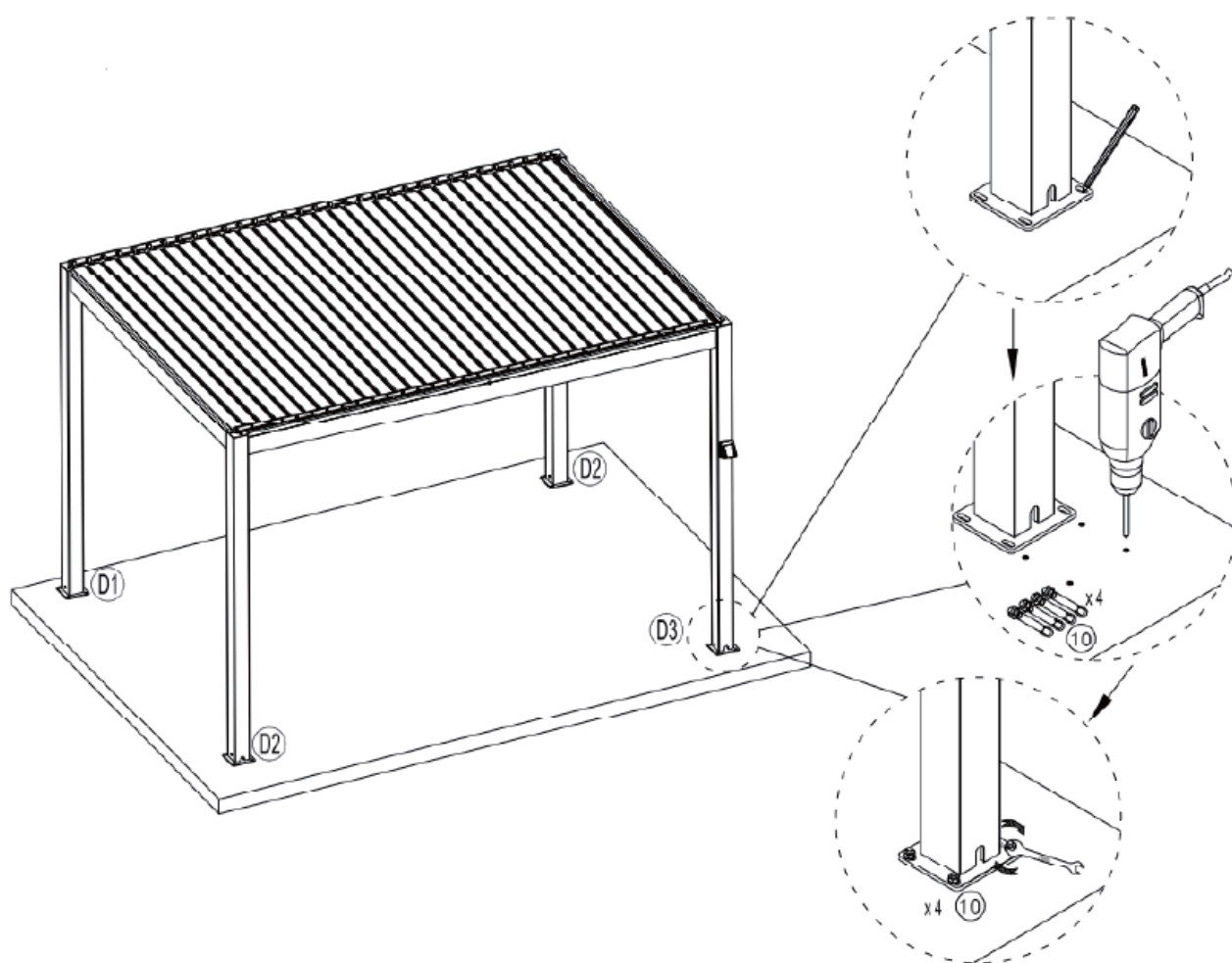
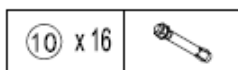
## Step 11

Mark holes for expansion bolt (10)x4 on each post.

Note the drill size should be 12 mm.

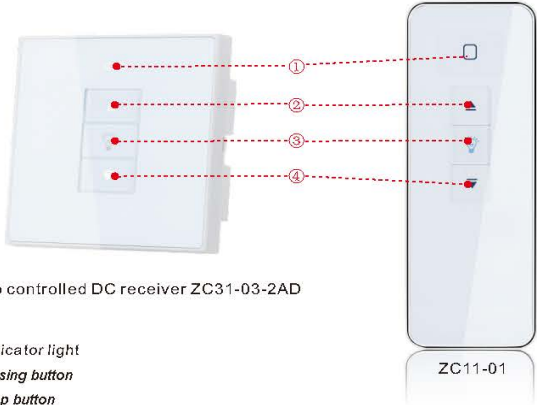
Insert the bolts. Use a hammer drill if necessary. Place the posts over the bolts. Tighten the nuts.

Once installed, make sure any remaining plastic is removed and silicone is used along all corners and gutters to be waterproof.



**WARNING: Make Sure louvers are open during periods of mild to strong winds to avoid damage overtime.**

# 86 operation instructions for DC controller with lamp control



Lamp controlled DC receiver ZC31-03-2AD

- ① Indicator light
- ② Closing button
- ③ Stop button
- ④ Opening button

ZC11-01

## 1. Product characteristics

- Exquisite and unique appearance design;
- 86\*86 national installation standards;
- Using impulse current relay;
- Adopting precision SMT process, surface moisture-proof treatment;
- Parts of electrical apparatus meet the requirements of fire safety standards for electrical standards;
- Power supply safety protection, the power output time is 5 minutes;
- Cooperate with all kinds of launchers and tubular motors.

## 2.Product parameters

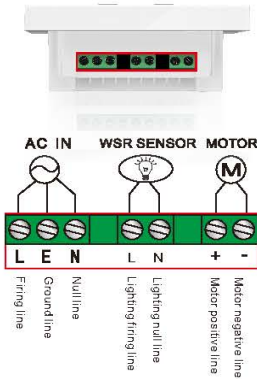
Product model	ZC31-03-2AD
Input voltage	AC100V-240V
Load power	Lamp≤500W Motor≤48W
Receiving / transmitting frequency	433.92MHz
Working temperature	-30℃~+65℃
Receiving sensitivity	-110dBm
Number of transmitters allowed	≤8 pcs
Operation mode	Remote / manual control

### Installation notes

- The main power source must be cut off before installation.
- Transmission distance≤80 metres.
- Please use soft wire and soft cable.
- Please avoid electrostatic interference, otherwise, it will damage the components.
- Ensure that cable carriers are not affected by longitudinal forces after installation.
- Maintain a distance of 1.5 meters between receiver and ground.
- Maintain a distance of 0.3 meters between receiver and ceiling.
- Maintain a distance of 1.5 meters between receiver and motor.

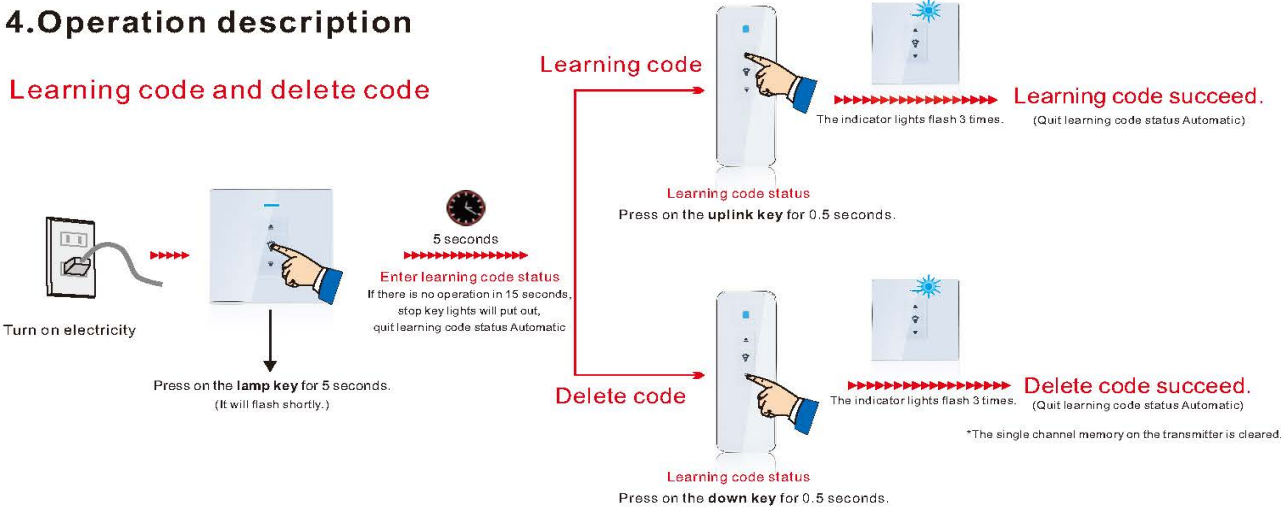
## 3.Product wiring

Lamp controlled DC receiver ZC31-03-2AD



## 4.Operation description

### Learning code and delete code



## Dismounting

If you want to disassemble the Pergola, please follow the following process.

**Attention! At least two people are needed for this step.**

- ◆ Keep the Pergola louvers open before you begin with dismounting. Bind the Louvers of the Pergola together to avoid unintended unfolding. This might cause damage and injury. You can use the protection band that was fixed on the Pergola when purchasing it.
- ◆ Follow the mounting instructions in reversed order to dismount the Pergola.
- ◆ Make sure that drilling holes in the wall will be sealed professional.
- ◆ **Attention! Safety hints and instructions have to be followed for dismounting as well.**

## Storage

When you do not want to use the Pergola for a longer period of time it is recommended to take the Pergola out of the brackets and store it.

- ◆ Make sure that the frame is dry completely before storing.
- ◆ Store the Pergola at a dry and safe place that is not reachable for children.

## Disposal

Do not dispose this Pergola with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling. Dispose packing materials according to local guidelines.