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Installation Guide

Carport



Installation

Step1

Before purchasing, please check carport site and follow the one suitable for your situation:

- **Situation1.** Flat land with soil base path may allow the post with footing, follow the structural guide.
 - **Situation2.** Flat land with 100mm thickness concrete slab, one side of the carport needs to be attached to existing building, then use the K1 post base for installation.
 - **Situation3.** Sloppy land with soil base path, sloppy gap in between of 2 posts (2750mm apart) not more than 50cm.
- Concrete footing installation suitable.

Step2

Set out post:

1. Dig two square holes with the size 800*800, setting the posts in. When you set the carport posts, the distant should be 2750mm (+50) centred between two **posts (A1)**. The height of posts to be determined from the finish ground level. Standard height set at 2200mm from the finished ground level. The high side of carport will be 2600mm.



2. Place metal **Anchor Rod (S6)** through the holes at the base of the posts (Ref Image1).

Check that the posts are level from the front and the side. The height of one post can be lowered slightly to allow for water to fall inside the gutter to one side.

Golden Rule:

Allow minimum 200mm of concrete around each post. Refer to the engineer's certification for more details with regards to the concrete footing dimensions, soil conditions and wind rate allowances.

The post can be set 100mm either side from the standard set out. New holes will need to be drilled for the bearers over the beams to accommodate the fixing points.

Step3:

Fix Beam:

After the concrete footing solidified properly (Normally allow 48hrs), do the **Corner Bracket (J1)** installation.

1. The same process applies to the **Arch Beams (B1)**. The beams are then positioned into the **Corner Brackets (J1)**. Tighten the bolts with care.
2. The end of the beams has an **Arch Beam End Cap (N3)** that is pushed into the end of the **Arch Beam (B1)**.

Note:

The corner brackets have pre-drilled holes for bolting to the post. Tighten bolts carefully to avoid damaging the bracket's internal threads.

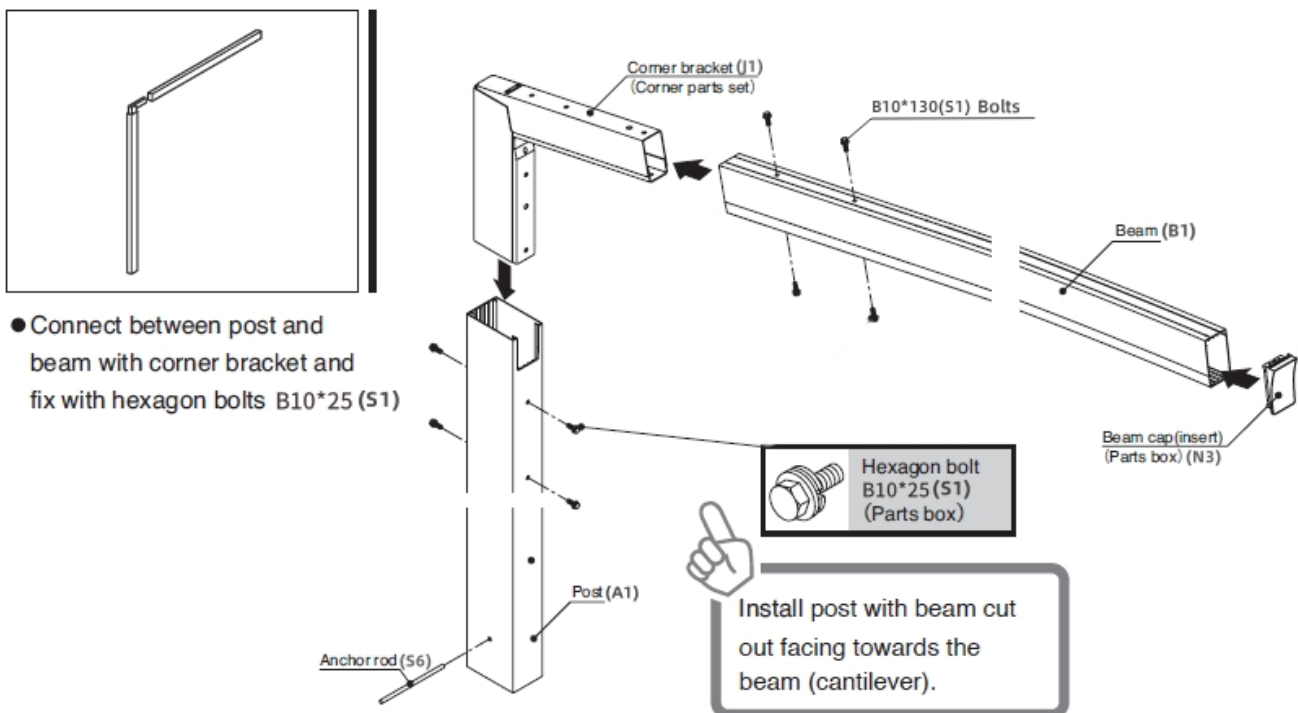


Image 1

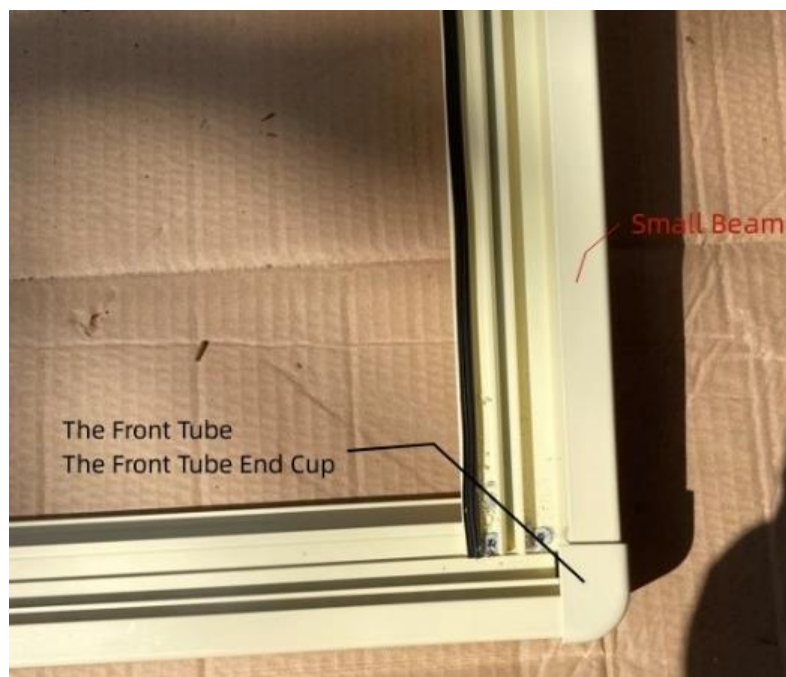
Step4:

Fix four sides Fascia:

1. Slide the **Press Board** into the gutter channel, fixed with **Screw (S1)** in even distance.



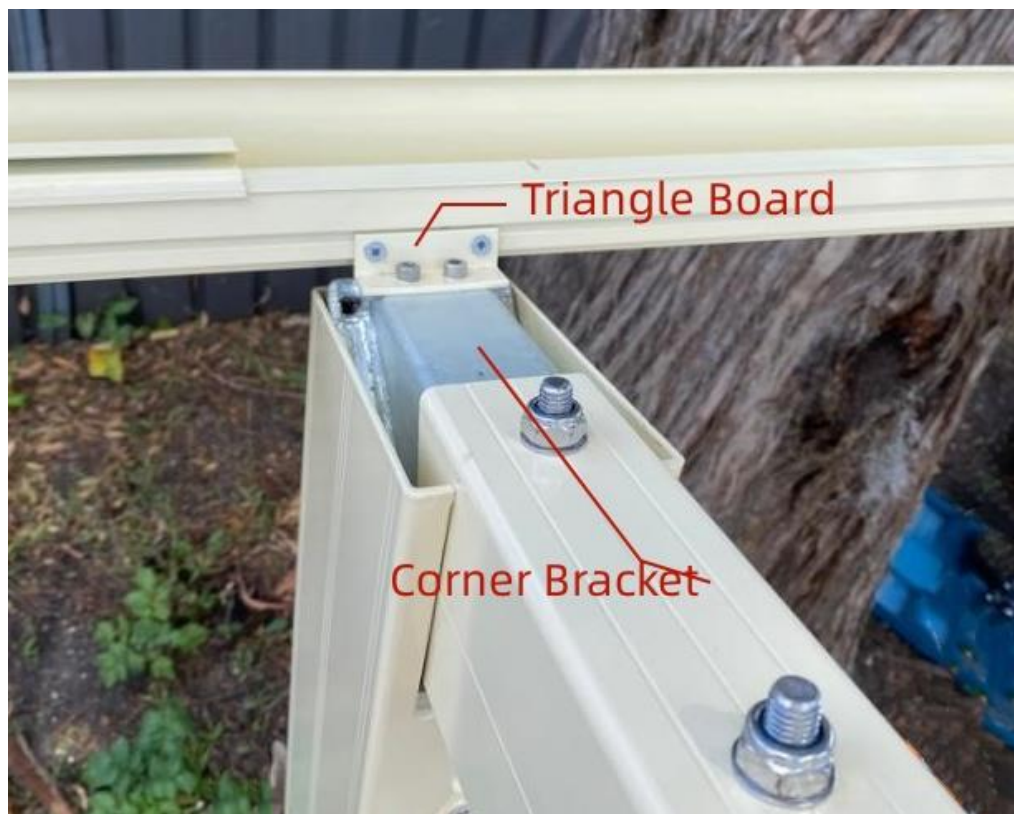
2. **The Front Tube End Cup (N1)** are placed into **The Front Tube (D1)** and **Small Beam (C1)**.



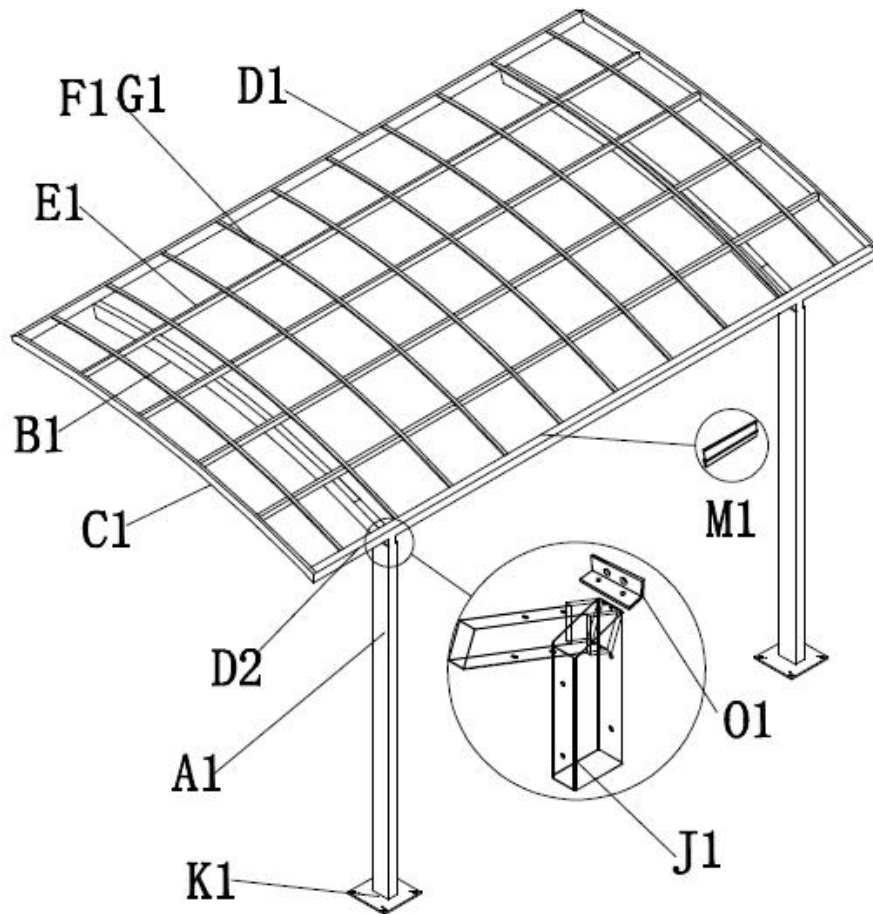
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3. **Water Tank End Cup (N2)** are placed into the **Water Tank (D2)** and **Small Beam (C1)**.



4. The **Triangle Board (O1)** are fixed to the **Corner brackets (J1)**.



The carport structure will be like:



Step5:

Fix Rafters:

1. Place the **Small Rafter (E1)** on to the beams in even distant.
2. Use **Screw (S2)** to fix the bearers on the beam and fascia.

Step6:

Fix The Bottom Board Join (G1) and Sheets:

Fix **The Bottom Board Join (G1)** onto the **Bears (E1)** with **Screw (S2)**. Always start from **The Front Beam (fascia)** and work back to the gutter.

Golden Rule:

The polycarbonate sheets have protective plastic film on the top and bottom. On the plastic film is a sticker indicating the side facing the sun. Peel the film from the top sheet after it has been installed. Always start with the sheet inserted into the top fascia. Position the sheet equally onto the rafters and place the other end of the sheet into the M1 alone gutter.

The sheets should always be flat on the rafters without any gaps. The screws to the top cover rafter strip should always be fixed correctly without any gaps.

Peel the protective film off as soon as finish the installation. Leave the film too long to make the peeling work harder.



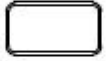



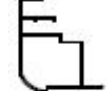



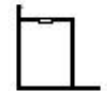

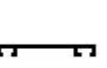

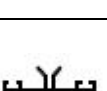







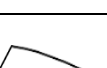


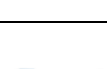


Step7:

Fix Downpipe:

1. Cut the gutter holes on the lower side of the gutter.
2. Fix in order with **R1**, **P1**, **Screws (S6)**, **Q1**, **H1**, another **Q1** and **H2**.



Parts List									
Number	Name	Specification	Graphic	Qty	Number	Name	Specification	Graphic	Qty
A1	Post	168*88		2	M1	Press Board	50*200		12
B1	Arch Beam	110*60		2	O1	Triangle Board	20*20		2
C1	Small Beam	84*66		2	P1	Pipe Connector	80*45		1
D1	Front Tube	68*68.5		1	Q1	Elbow	80*45		1
D2	Water Tank	70*74		1	R1	ABS	80*45		1
E1	Small Rafter	70*74		4	S1	Screw	B10*25		16
F1	Top Board Join	40*4		8	S2	Screw	B10*130		4
G1	Bottom Board Join	40*4		8	S3	Screw	4*15		270
H1	Down Pipe 1	50mmø Round 50cm		1	S4	Triangle Board Screw	M6*15 M4*30		5 4
H2	Down Pipe 2	50mmø Round 3m		1	S5	Post Base Screw	14*120		8
I1	Poly Roof	2.5mm		9	S6	Anchor Rod			1
					N1	Front Tube End Cap			2
J1	Corner Bracket	470*560		2	N2	Water Tank End Cap			2
K1	Post Base (Concrete Slab Only)	300*300		2	N3	Arch Beam End Cap			2