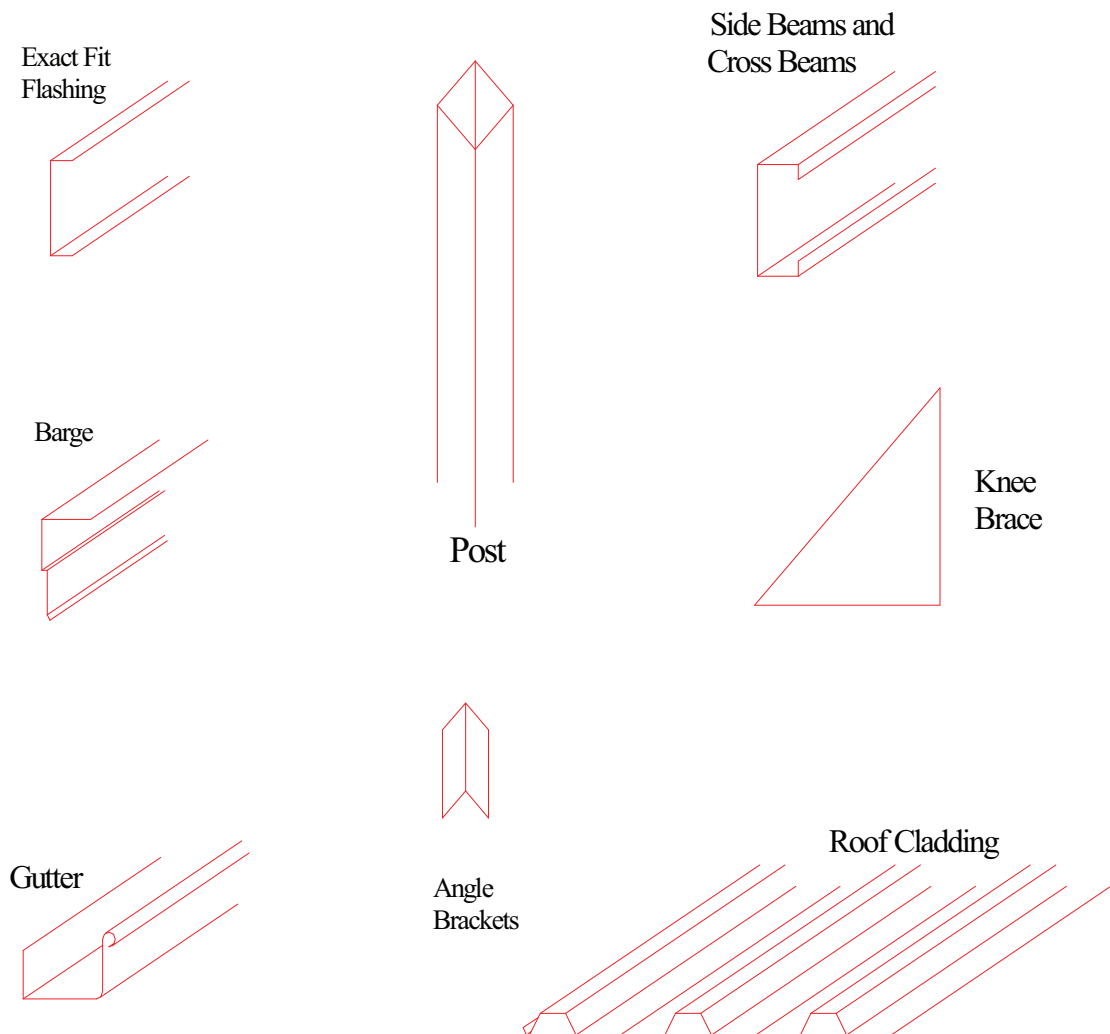


# Flat Roof Carport

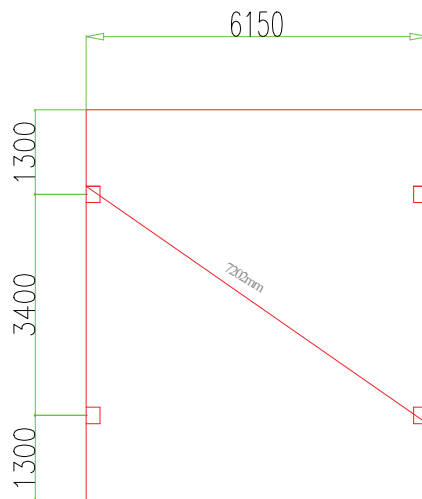
*Thank you for choosing this quality carport. We strongly recommend that you read these instructions thoroughly. The carport you are building may vary from a carport previously bought or those displayed as we are constantly upgrading designs and construction methods. Please take your time to and do not rush the erection of your new carport and you will ensure a finished product of which you may be justly proud.*

Due to the large range of sizes and styles available, it is impossible to prepare an instruction manual for each individual size and model. The following instructions relate to a 6m wide and 6m long carport. This manual is a guide only and should be used in conjunction with the components list and engineers plans as submitted to council.



### Step 1 – Footings

Set out the location of the pads to be excavated and ensure they are square by checking the diagonal measurements. Dig out and pour concrete pads. Note- the carport can also be fixed to a suitable concrete slab or erected into footing holes, then concrete poured.



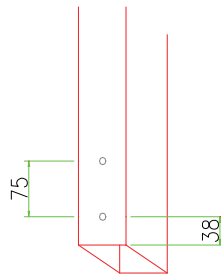
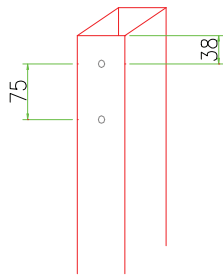
6m WIDE x 6m LONG FLAT CARPORT

**ALWAYS CHECK YOUR COMPONENTS LIST TO ENSURE THE CORRECT PART, LENGTH, QUANTITY AND LOCATION. IF IN DOUBT PLEASE CONTACT YOUR SUPPLIER.**

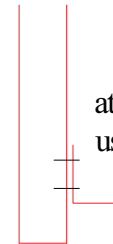
### Step 2 - Preparation of carport posts

Set out and bore two 12mm holes at the top of the carport posts and two holes at the bottom, as per the following drawing. Holes at bottom of post are only required if posts are to be dynabolted to concrete.

#### Top of Post



Base of Post



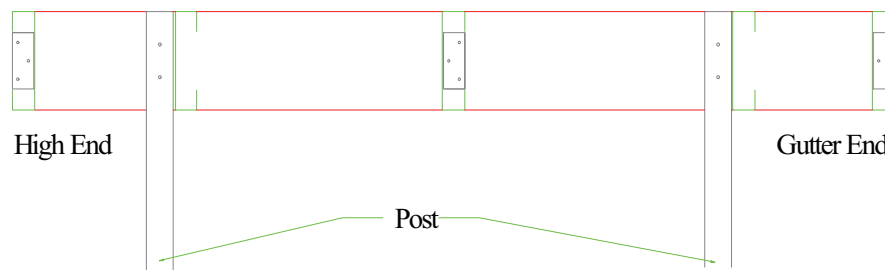
attach angle bracket  
using 2 tek screws

Base of Post to be  
set in concrete

### Step 3 – Preparation of side carport beams

On the face of the side carport beams (usually the 2 longest “C” purlins) set out and attach the small angle brackets with 3 tek screws.

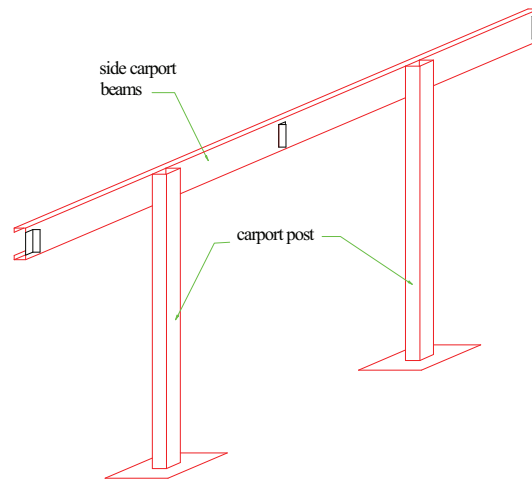
Set out and drill 1 of the 12mm holes corresponding to the carport posts (mark the post and the beam to ensure that the posts are fixed at the same location as they were set out). Note – depending on the size of the carport it may be necessary to fit a carport haunch bracket between the beam and the post before drilling the hole or can be fitted at Step 11.



Setout for 6m long side carport beam

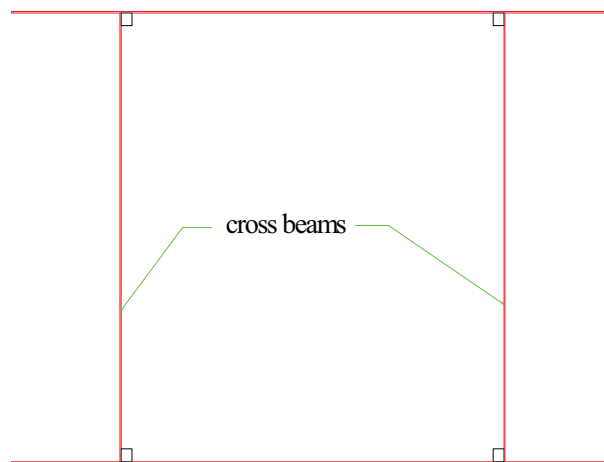
### Step 4 – Assemble and stand the carport post and the side carport beams

Bolt the posts and the side carport beams together using the 12mm bolts provided through the pre-drilled holes. Stand post in footing holes or slip the carport foot bracket into the bottom of the posts and stand the posts and the beams on the concrete pads. Temporarily brace the beam in location. Repeat this step to erect the other side carport beams.



### Step 5 – Fit the carport cross beam

Place a carport cross beam in position at the front posts and attach it to the posts using 3 tek screws into each post. Repeat this step at the rear pair of posts.



PLAN OF ROOF FRAME AT STEP 7

**Step 6 – Fit the remaining cross beams**

Using tek screws, fit the remaining carport beams to the small angles fitted to the side beams. The crossbeam at the gutter end has the open side of the C section facing out.

**Step 7 – Plumb columns**

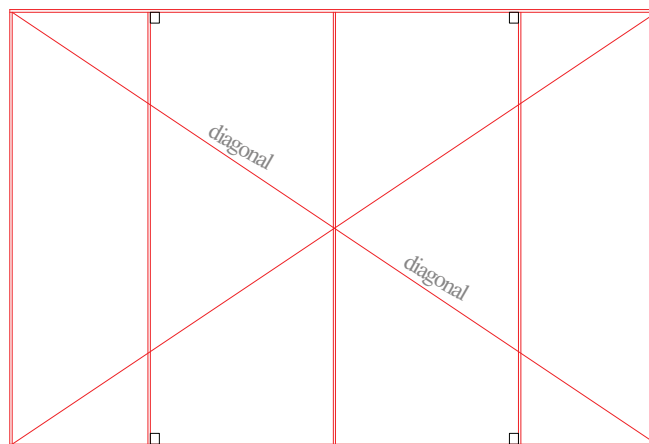
Plumb the front carport column on one side and temporarily brace it in position. Drill the remaining hole on the top of the post and fit the second 12mm bolt. Plumb the rear post on this side and add the remaining bolt through the side beam.

**Step 8 – Bolt down column base plates**

Drill and fit masonry fixings to the bottom of the two posts that have been plumbed or pour rapid set concrete into footing hole.

**Step 9 – Square up the carport frame**

This is done by checking the diagonals are equal and propping the unfixed side into position.



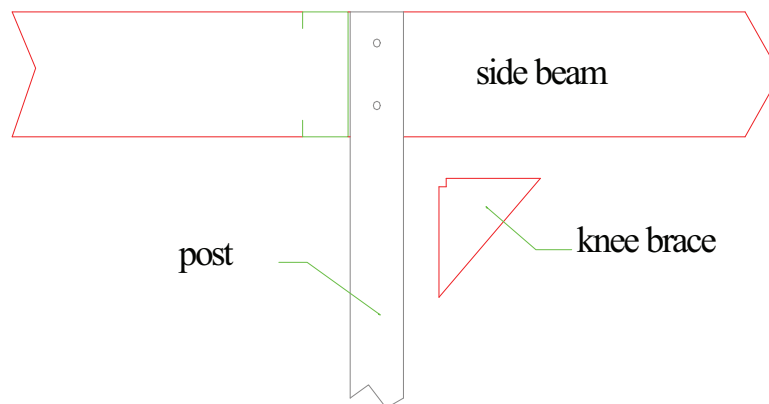
CHECK DIAGONALS ARE EQUAL

### Step 10 – Complete fixing frame

Using the steps to fix the posts used in steps 7&, fix the remaining two posts to the carport beams and after plumbing them bolt or concrete them into position. Check the cross beams are level (if posts are concreted into footings it's a good idea to wait a couple of hours before sheeting roof), drill 12mm holes through all carport foot brackets and fit the long bolts supplied.

### Step 11 – Knee braces

If knee braces have been supplied (**check components list**) these are to be fitted to the post, side beam and crossbeam on the front and back posts. Centre posts on longer carports have the knee brace fitted to the side beam and post only, one in front and one behind the post. If fitted at this stage the corner of the brace will need to be notched 20mm to allow easy fitting.



### Step 12 – Fit roof sheeting

Lay the first sheet in position ensuring that the roof sheet is flush with the high end of the carport and screw it to the carport cross beams. Use 4 crest fixing screws per sheet at supports for MonoClad roofing. Fixing screws are not required at the high end of the roof as this is fixed when the barge capping is fitted. Ensure roofing sheets are turned up at the high end to prevent water running off this end.

**Step 13 – Fit gutters and cappings**

Remove plastic cover protecting colorbond cappings and flashings before the capping or flashing is fitted.

- a) Fit the cover flashing to the gutter end of the roof
- b) Fit the stop ends and nozzle to the guttering
- c) Fit gutter brackets to the cover flashing using using pop rivets. Ensure the brackets are fitted using a string line to the required fall location.
- d) Fit the guttering into the gutter brackets
- e) Fit side and head barge capping ensuring the bottom edge of the flashing is fixed to the bottom lip of the C purlins using pop rivets.

**Step 14 – Cut and fit downpipes**

Cut and fit the downpipes to the drainage system.

**Step 15 – Finish**

Remove any temporary bracing and check all the required bolts and tek screws are fitted and tightened.

**BRUSH COMPLETE CARPORT DOWN WITH A SOFT BROOM TO REMOVE ANY METAL DUST/FILINGS CAUSED BY ANGLE GRINDER.**

***CONGRATULATIONS ON A JOB WELL DONE!***