

# CANTILEVER CANOPY ASSEMBLY INSTRUCTIONS



BEFORE PROCEEDING WITH ASSEMBLY PLEASE ENSURE THAT THE FOLLOWING CONDITIONS HAVE BEEN MET:

- Wall is of solid construction – no flaking mortar or loose bricks (check with a registered builder if you are unsure.)
- You have the correct fixings for the type of wall that you are installing the canopy onto.
- Check that you have sufficient space for the installation.
- Due to the weight of the product and the nature of installation TWO people are required to install the Cantilever Canopy.

*'Please note that Living Space accept no responsibility for any injury or consequential damage caused by the use of unsuitable fixings or by the installation of the product that deviates in any way from that described herein.'*

Please refer to the following tables to establish the packs you will receive for your Cantilever Canopy and the components contained within.

## 2.4m Width

Box number:

1	16mm Assembled Canopy Panel
2	16mm Assembled Canopy Panel
3	2.4m Wall plate including PVC flashing/under clad/trim
4	2.4m Front Brace
5	End rafter closures
6	Guttering
7	Fixings/Guttering Accessories/Instructions/Beams Brackets – templates
8	Cantilever Beam
9	Cantilever Beam
10	Cantilever Beam

## 3.6m Width

Box Number:

1	16mm Assembled Canopy Panel
2	16mm Assembles Canopy Panel
3	16mm Assembled Canopy Panel
4	3.6m Wall plate including PVC flashing/under clad/trim
5	3.6m Front Brace
6	End Rafter Closures
7	Guttering
8	Fixings/Guttering Accessories/Instructions/Beam Brackets – templates
9	Cantilever Beam
10	Cantilever Beam
11	Cantilever Beam
12	Cantilever Beam

## 1.2m Width Extension

Box Number:

1	16mm Assembled Canopy Panel
2	1.2m Wall plate including PVC flashing/under clad/trim
3	1.2m Front Brace
4	End Rafter Closures
5	Guttering
6	Fixings/Guttering Accessories/Instructions/Beam Brackets – templates
7	Cantilever Beam

## ASSEMBLY INSTRUCTIONS:

PLEASE NOTE: There are no fixings supplied for the Wall Plate, GRP Cantilever Beams or Rainwater System. Please refer to the list of recommended fasteners or a registered builder for advice.

The Cantilever Support Beams must be fixed a minimum of 5 bricks down from the eaves and remembering that the beams have a depth of 400mm it is advisory to allow a minimum of 1800mm between the lower face of the beam and ground.



## INSTALLATION STARTS HERE:

- It is imperative to the overall stability of the Canopy that the Support wall is a firm and solid construction and in good condition.

### FITTING THE GRP CANTILEVER BEAMS

- Face the wall where you intend to install your canopy and mark the bottom position for the first of the Cantilever beams you intend to fit.

**It is important that the fixings do not fall on the mortar lines within the wall construction and that they fall as close to the centre of each brick/block as possible.**

- Ensure that suitable fixings for your specific wall type are used and that the fitting guidelines from the manufacturer of said fixings are followed.



- Holding the first beam against the wall, mark the position of the holes ensuring that the holes are to be drilled as close to the centre of a brick as possible and that the beam is level. PLEASE NOTE the top and bottom holes are the most crucial and need to be located in the middle of a brick.
- A beam bracket is enclosed within the fixings box to assist with the positioning of the holes for the Cantilever Beams.
- Once the wall has been drilled in the correct positions, attach the beam to the wall following the manufacturer's instructions for your choice of fixings. The metal beam bracket MUST be fitted to the inside of the beam before bolting to the wall.
- Check that the beam is level using spirit level (not supplied). Once you are satisfied that the beam has been fitted correctly, leaving the bolts untightened but secure, proceed to fitting the remaining beams.

- After fixing the first beam to the wall measure along the wall using the table below. (It may be easier to measure from the outside edge of the beam to the outside edge of the new beam)

(Please note measurements are from the centre of one beam to the centre of the next). This distance is important as the panels are pre set to span this distance.

Projection	Distance between beams
1.5m	1.2m
2.5m	1.2m
3.0m	1.2m



### WALL PLATE



- Drill holes in the Wall plate 50mm from each end and at approximately 450mm centres along the length of the Wall plate.



- Fit the Rubber Gasket provided into Slots A and B on the wall plate prior to fixing the wall plate to the wall.
- Cut the Foam Gasket (C) to length to fit between the Cantilever Beams, this will support the polycarbonate sheet to prevent sagging at the wall.



- Fix the predrilled Wall plate to the Wall using fixings suitable for the type of wall construction, using the recess and pitch at the back of the Beam as a guide. The wall plate should slightly overhand at both outside edges of the first and last Cantilever Beams to allow for the fitting of the end plate.
- Clip the PVC flashing provided to the top of the wall plate prior to fitting the fixing the Glazing Panels.
- If lead flashing is to be used, this should overlap the top of the PVC flashing to cause a watertight seal.

## FIXING THE GLAZING PANELS:

**It is possible to place crawl boards towards the rear of the assembled Cantilever to assist in fixing the back and central fasteners into the left-hand rafter. Please ensure that the crawl boards are clean and free from metal fittings/fixings as these will damage the finish of the roofing sheets and aluminium rafters.**

- The Glazing Panels have been pre-assembled in the factory, making an on-site installation easier. The panels are designed to interlock with each other and are secured by using the enclosed fixings.
- The Panel Fixing Packs provided contain self-tapping screws therefore the rafters must be predrilled. Each glazing panel has a polycarbonate protrusion of approximately 25mm which needs to be fed into the wall plate to provide a watertight seal; once this is positioned you will also notice an overhang of approximately 20mm at the front of the canopy to run off into the Rainwater System.
- Starting at the left of canopy as you are facing it, position your glazing panel ensuring that the LEFT HAND rafter is square and central with the outside edge of the GRP Cantilever Beam. Using the screws provided fix the RIGHT-HAND rafter into place at approximately 500mm intervals.



- Now fit the second panel using the same method, ensuring that the Left and Right hand rafters are properly engaged and the glazing panel is square to the following Cantilever Beam. Continue until all of the Glazing panels are fitted.
- Once all of the glazing panels are fitted you can fit the left and right end rafters. These are fitted to the open edges of the glazing panels by a top fixing at intervals of approximately 500mm.



## FRONT BRACE:

- When you have all of the panels in place you can fit the front brace. This will fit flush with both outside faces of the canopy and is to be drilled fixed (using the screws provided) through the front face of each Cantilever Beam. By fixing this brace securely the whole canopy structure should now be as square and true as the original wall structure will allow.
- With the front brace in place you can now tighten the Cantilever Beam bolts – DO NOT OVER TIGHTEN.
- You can now fix the Rafter End Caps using the screws and caps provided and the GRP cover plate in the Cantilever Beam recess.



## INSTALLING THE RAINWATER SYSTEM:

**Please note that a slight angle is required on both the front and side gutter to ensure that the water runs away from the canopy into the downpipe.**

- Starting at one end fix the Gutter Support Brackets to the face of the front brace at equal centre no greater than 1m, continuing around the corner and down the underside of the side beam – ensuring that there is a slight angle from the back of the Canopy to the front and along the front towards the position of the Down Pipe.
- Chose one end to locate the Stop End Outlet and position it so as to allow the rainwater Down Pipe to be aligned against the wall with the end of the Cantilever Beam.
- Cut to size the lengths of Gutter using the Union Joints were necessary, to ensure that the front of the canopy has a run guttering. When you reach the other front corner position the 90 degree angle and then continue to run the gutter along the side of the canopy finally fitting the Stop End Closure to finish off the system.

**Now you canopy is complete it is important to keep the structure clean using a non abrasive cleaning product and check the security of the fixings at regular intervals.**

## RECOMMENDED WALL FIXINGS SIZE:

**For the Cantilever Beam Fixing a fastener at a minimum of M12 (4.8 Grade) is required to hold the Cantilever Canopy Beams in place. For fixings specific to your wall construction please consult a registered builder.**