



## Assembly Guide

This guide is designed to show the main steps in the assembly of a flatpack portable supplied by HC Containers and Portables. The guide is based on a 12x3m model but the same process can be followed for all of our skillion (flat) roofed model no matter what size. You should have received a digital copy of the assembly drawings that need to be used in conjunction with this guide.

You can also view a short video of the assembly process here - [https://youtu.be/C92TmeJr\\_ew](https://youtu.be/C92TmeJr_ew)

If you have any questions or need further information please do not hesitate to contact our team at [info@HCcontainers.com.au](mailto:info@HCcontainers.com.au)

- 1 Ensure the beams are correctly oriented (Ensure that pre-drilled holes line up with one another and if installed that bracing connections are facing inward). Bolt the beams together with the cross beams on a **LEVEL FOUNDATION** - check along the length and width of the frame with a spirit level and adjust as necessary.



- 2 Measure diagonals to check the base is square. It may be necessary to use ratchet straps to pull the beams square. You may need to loosen the bolts connecting the beams in order to pull it square and straighten the beams - the bolts can be re-tightened after the flooring is screwed down





- 3 Bolt on the floor joists leaving the bolts loose. (first and last joists should have flat side facing out)



- 4 Tighten the end joists and check diagonals for square. Adjust as necessary. Tighten remaining joists - (Sight down the length of the building and get them as straight as possible)





- 5 Rivet the Z-Channels to joists at corners. Check diagonals for square. Adjust as necessary



- 6 Run a string line along the Z-channels and rivet the channels at the end of each floor joist



- 7 Paint corners, top edge and bottom holes of Z channel with with Rust Guard paint (similar to [White Knight Rust Guard](#) \*\* Not supplied by HC Containers)



- 8 Install steel angle brackets at the end of each floor joist..



- 9 Mark the positions of the steel brackets and floor joists on the Z-channels (this will help with locating where to screw in later steps)



- 10 Position flooring boards and trim as necessary - The first board edge should land in the center of a floor joist (if it does not you need to start at the opposite side). Screw boards to joists, plane or sand joins. - some trimming of boards may be necessary





- 11 **Install wall panels** - Starting at one corner of the building stand the 2 corner panels and place the corner steel angle in position - rivet in place. (easier with 2 people)  
Put screws through bottom of the panels through at the Z-channel and through into the steel brackets (using marks that were done in step 8 as a guide) – We recommend pre-drilling the hole and paint the hole with galvanizing paint before screwing in screws)



12 Continue standing wall panels, push them together until fitted tightly (no silicone or sealant required). Fit top-wall channel as you go along. Fit steel corners





### 13 Internal Walls - Fit any internal walls before installing the roof

- Cut floor channel to suit the door opening
- Rivet one side of internal corner flashings to the walls of the building.
- Stand internal walls
- Rivet other internal corner flashing to walls
- Rivet on top steel channel



### 14 Prepare the roof sheets before installing

- Make sure all the roof panels are in the same orientation with regards to the way they slot together.
- Peel off the top side protective plastic covering
- Fold up the top end of the steel edge (this stops any water running up and over the top edge of the roof in strong winds)



- Undercut 70mm of the bottom lower side of the panel including the polystyrene.



\*Once cut it is recommended the exposed underside and back edges of the roof sheet are painted with Rust Guard paint (similar to [White Knight Rust Guard](#) \*\* Not supplied by HC Containers)



## 15 Install roof sheets

Position the first of the roof sheets with approximately 10mm overhanging the edge of the end wall (20mm short of the end on a 12x3m as shown)



Panel should be flush with the front of the wall (long high side of building). Sight along the top of the roof sheet to ensure that the sheets do not run off line, adjust if needed and screw using 75mm Hex head screws in the valley of the high side to hold sheets in position until the flashings have been installed.

- Fit and screw down remaining roof sheets. The final roof sheet will need to be cut to size.

16 Fit roof connection covers and screw down at low end.



17 Temporarily fasten the front eave covers in position and mark the roof sheet ribs locations. Remove eave covers and cut out as marked so front eave covers fit snugly.





- 18 Fit and rivet the front and side eave covers. Front eave covers are secured by screwing into the peaks of the roof ribs through to the steel wall top channel. Silicone all joins.



- 19 Push the rear drip line flashing between the top of the roof sheet and the polystyrene (using a knife or paint scraper to loosen the polystyrene first can help) then rivet in place.



Silicone along both edges where drip line meets roof panel and roof cap.

- 20 Slightly fold down the ends of the roof sheets and push in the roof panel cover caps to cover exposed polystyrene. Silicone along edge where drip line meets roof panel





- 21 Silicone rear of roof Run bead of silicone along edged where drip line meets roof sheet and seal roof ridges.



- 22 Cut internal corner flashing to length and rivet in place.



- 23 Peel the protective plastic on the internal and external walls and internal ceiling - Use a Stanley knife to score along top and bottom and peel.

24 Silicone along top edge of the Z Chanel (external)



25 Cut vinyl flooring to size and glue down (Vinyl adhesive not included). Once dried silicone around the edges of the floor. - lay out the vinyl somewhere flat and warm ahead of time to let it flatten out as much as possible

26 Silicone along top edge of window frames (external)  
Silicone the screws and corners inside the window tracks.

27 Fit drip angle above door. Silicone along top edge.

