



HOW A SUPERPOD® GOES TOGETHER



Superpod®, an international design house based in Australia, has designed a new building system for residential and other buildings.

Based on the best solution for low energy housing: passivhaus principles, we have developed our own system using particular prefab materials.

We are so excited about bringing our innovative project to you.

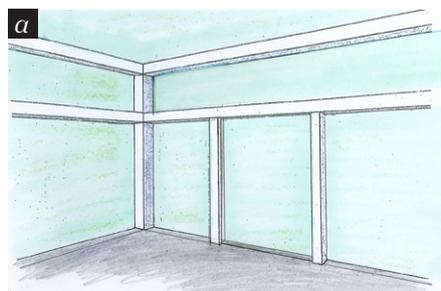
You might want a sustainable house. Working out what that means is one thing, and putting it together is another! Both the design and construction process for high performance low energy housing can be daunting.

We have made it all easier.

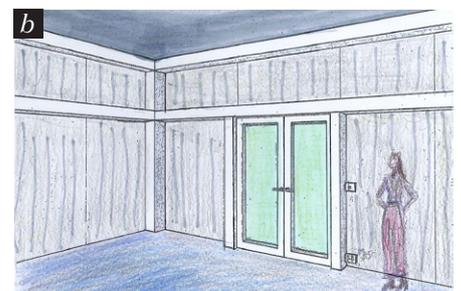
Here's how you put a Podhouse® together. We focus here on a single dwelling house - just extrapolate for multi-level buildings.

First you put up your foundations - in the normal way. Let's say a concrete slab.

Then you instal a prefabricated steel frame made of square hollow tube. The frame is prewelded with holes predrilled. It is prepainted too in your chosen colour. The frame in most cases will be delivered to site and craned and bolted in position.



a) prefabricated steel frame



b) finished interior of Podhouse®



Then your builder or approved contractor installs the architectural wall panels by Kingspan®. They are beautiful, completely pre-painted inside and out. They go up really fast.

You can use Kingspan® on multilevel buildings as it is a high-end commercial product.

We use high quality European window frames, which are available locally around the world. Installing the windows (triple or double glazed, as tested by the European method and determined for your build) is easy - you attach the windows to the internal expressed steel frame! Of course, there is the important passivhaus requirement - all gaps must be filled, meticulously, to meet the standard. Window frames are notorious for unwanted heat losses and unwanted gains. The windows are made of uPVC and open inwards like the European windows - tilt and turn! They never need painting.

We have devised a system for minimising thermal bridges while building fast. The window connections are really important. They need detailed design and careful installation.

Our system doesn't need plaster, stud walls or paint. It doesn't need wall cavities for electrical wiring. That's because we use the frame for the wiring. Voila!

We have great lighting suggestions too. Connectable tube lights or lights hanging from the frame. Just like fitting out a warehouse.

This means you can put up a Podhouse® or podbuilding™ fast, without most of the traditional trades used in building. No carpenters. No plasterers. No painters.

A Podhouse®, depending on the size, could go up in as little as 3 weeks.

We developed efficiency into the design so that you can get into your house or building sooner.

Other elements of the low energy performance principles are included and will be managed by your builder: airtightness, air ventilation system, construction details verified, passivhaus auditing and, as desired, a passivhaus certificate and plaque too.

You can, of course, add further linings if you want. Up to you, for aesthetic or acoustic reasons. According to your taste and budget.

We have taken out the hard work of sustainable building design so that your building for your block can be designed and built fast and you can focus on the fun parts.

Enjoy your Superpod® Podhouse®. Be comfortable all year round without costing the earth - literally.



Original source Passivhaus Institute, Germany – <http://www.passiv.de>