



Flying Factory FAQ

What is a Beattie Passive Flying Factory?

Beattie Passive's Flying Factory offering enables you to set up your own factory (on or close to the construction site) to deliver your own Passivhaus standard housing with off-site manufacture and rapid on-site assembly.



Who is the Flying Factory for?

The Flying Factory is for volume developers, Housing Associations, Local Authorities and Councils. The offering provides the opportunity for organisations to train and set up their own factory to deliver high quality, high performance housing at an affordable cost.

What benefits would we reap from a Flying Factory?

Our Flying Factory solution gives you all the "know-how" and support to set up and run a Passivhaus factory, providing you with confidence and ability to manufacture Passivhaus standard on a large scale at an affordable cost.

Key benefits include:

- Reduced logistical challenges and costs often associated with off-site construction
- Faster delivery
- Your DLO or a local workforce can be fully trained and employed to manufacture and erect the houses, creating jobs locally and having a positive impact on the community.
- Use of your existing supply chain to achieve economies of scale and a positive economic impact on the local community.
- Easy erection of the ground and first floor panels with a forklift or small platform, leading to reduced crane time (a crane may be required for additional floors and roof) allowing you to easily programme work streams and resulting in a reduction in preliminary costs.

Why should we opt for the Beattie Passive System over bricks and mortar?

Passivhaus is the gold standard of energy efficient building, delivering the optimum in building performance and resident comfort. The Beattie Passive System is the only completely certified system by the Passivhaus Institute in Germany, guaranteeing the performance of Passivhaus. On top of this, Beattie Passive offer:

- Design flexibility - homes can be built to any shape or size
- Easy maintenance - all homes have a service void allowing easy access
- Sustainable materials and CO2 emissions could be reduced by up to 100%
- High levels of sound, fire, flood and radon gas protection



Will we need to have just highly skilled workers?

We recommend having a few skilled carpenters attending the training course, but the Beattie Passive System can be manufactured and erected by a mix of skilled and unskilled workers. For each small scale Flying Factory we would recommend you have two skilled carpenters. The Beattie Passive System is an excellent methodology for novice carpenters and builders to learn on the job while being able to effectively deliver the optimum in housing standard. Beattie Passive regularly work with colleges and the HM Prison Service to manufacture the components of the Beattie Passive System.

How do we know what we are doing?

To start your Flying Factory, a small team from your organisation, around four trainees, will attend an in-depth training course run by our knowledgeable team, where you will be taught all you need to know about the Beattie Passive System and setting up and running the Flying Factory.

Do Beattie Passive provide support following the training?

Yes, as part of the Flying Factory offering, Beattie Passive will visit your site during your first year (or an agreed time-scale) to provide you with help and tips while you build as well as sharing our latest innovations.



How many homes can we build with the Flying Factory?

As many as you need to. The Flying Factory offering is easily scaled up and down as demand requires. A team of four, with the base set up, can manufacture an 87m² home in around 5-7 days.

Can the system be mothballed?

Yes. If for whatever reason you need to stop or pause construction, the system can easily be mothballed. Then you can simply open up the factory again and restart construction.

Does Beattie Passive provide all the necessary equipment to set up a Flying Factory?

We provide the necessary training and know-how on the Beattie Passive System and how to set up your own Flying Factory. All other items, including tools and the factory base will be the franchisee's responsibility.

Does Beattie Passive provide all the necessary health and safety requirements?

No, Beattie Passive will not be accountable for any of the health and safety requirements in your company. We suggest discussing all of your requirements with your appointed health and safety officer.



What does the Flying Factory consist of?

The Flying Factory offering consists of all the know-how and support to set up your own Flying Factory and how to manufacture and deliver the Beattie Passive system.

The training breaks down as follows:

- Your team of four will spend two weeks at the Beattie Passive Factory in Norfolk, where they will learn how to build the Beattie Passive system.
- We provide support for one week to set up your factory and start your manufacturing process.
- Onsite training for three weeks runs alongside the erection of your first Beattie Passive house, covering the key elements of the Beattie Passive onsite works for the Structural Thermal Envelope.
- Regular visits from Beattie Passive Technical Expert to provide advice, training, guidance, innovations and process improvements

We have heard off-site factories can cost millions to set up- will the Beattie Passive Flying Factory have a large, upfront investment?

The Beattie Passive Flying Factory has minimal set up costs and the exact costs will depend on where you are setting up your factory (permanent versus temporary facilities).



For more information contact: 08456 449003 | www.beattiepassive.com