Typical Site Progress Photographs



DAY 1


DAY 2

DAY 2.5

Design Basis

- Each foundation is individually designed by our Swedish suppliers.
- For each system they will provide detailed but easily understood drawings which will allow the foundation to be completed quickly and accurately on site.
- The program used to design the foundation for BuildEco Homes is the well known and proven "PEPS". Details are available by visiting website www.eps-peps.se
- All BuildEco Homes foundation designs are covered by Professional Indemnity Insurance.
- A copy of the designer's up to date insurance certificate is available on request.

** A separate leaflet is available on request for our wall and window system.*

Contact Details

Sales and Technical enquiries:

John Bradley BSc (Hons) ABEng
Business Development Manager
Tel: 07872 824297
Email: john@buildecohomes.co.uk

All other enquiries:

Dr.Vahid Tabatabai BSc (Hons), MEng, PhD.
Managing Director
Tel: 07872 824295
Email: vahid@buildecohomes.co.uk

BuildEco Homes
Regus House
Malthouse Avenue
Cardiff Gate Business Park
Cardiff, CF23 8RU
Tel: 08448 000811 01443863728
www.buildecohomes.co.uk

BUILDeco HOMES

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Low Cost, Fast Fix

Super Insulated Modular Foundation System

Dr.Vahid Tabatabai
BSc (Hons), MEng, PhD.
Managing Director

Who are we?

BUILDeco HOMES

"We are a UK based company dedicated to helping our customers attain the very best value low energy homes they desire"

In the main we do this by providing our customers with two separate, but complementary, Modern Methods of Construction (MMC) This leaflet gives a brief overview of our foundation system.

Our Low Cost, Fast Fix, Super Insulated Modular Foundation System.

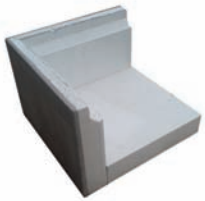
Our Low Cost, Fast Fix, Low Energy Modular Wall and Window System.

Low Cost, Fast Fix, Super Insulated Foundation System

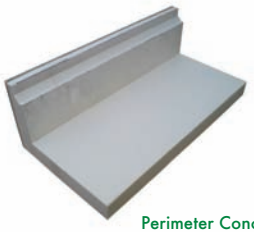
Basic description

The system components combine to form a highly insulated, rising damp resistant, reinforced concrete raft which forms the ground floor and the fixing base upon which a superstructure can be built. Its unique construction results in exceptionally low U Values (typically 0.15), minimal excavations and reduced site time.

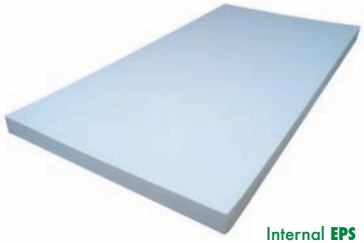
The key components



Perimeter Concrete **EPS** Insulated Corner Modules.

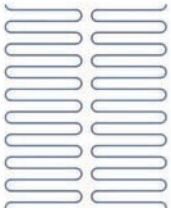


Perimeter Concrete **EPS** Insulated Side Modules

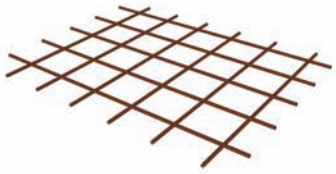


Internal **EPS** Insulated Fill Modules.

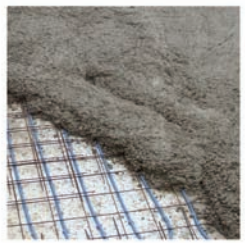
Damp Proof Radon Membrane *(Optional)*



Under-floor Heating Pipe-work *(Optional)*



Steel Reinforcing Bars and Mesh



Ready Mixed Concrete

The Installation Process

1. A compacted, level and blinded hardcore base, containing the services entering the building, is prepared in advance by others.
2. The EPS Insulated Corner Modules are positioned in accordance with the detailed drawing provided.
3. The EPS Insulated Side Modules are positioned and connected to each other and to the EPS Insulated Corner Modules using the jointing clips supplied to create the overall outside perimeter of the foundation.

4. The first layer of Internal EPS Insulated Fill Modules is placed.
5. If required the Damp Proof and/or Radon Membrane is installed.
6. Additional layers of Internal EPS Insulated Fill Modules are placed as required and secured together using the fixing pins supplied.

7. If required the underfloor heating pipework is positioned in accordance with the detailed layout diagram provided using retaining clips supplied.
8. Steel reinforcing bars and mesh are installed.
9. Ready mixed concrete poured and "tamped" or "powerfloated" level.

When the concrete is cured the foundation is ready to build on.