

18 Winterton Way Shoreham-by-Sea BN43 5RE

Overview

Owners: Mark and Lucy Poston

Type: detached house, converted bungalow

Age: Original property built in 1950s, converted in 2021

Beds: Four

Walls: Brick cavity insulation, exterior insulation and timber cladding

Area: footprint approx. 14.5m x 8.3 so, 120sqm ground floor and approx. 80sq m first floor

Residents: Family of four

Key features

Double insulation

Air Source Heat Pump

Air circulation system



Introduction and approach

This stunning bungalow conversion has used materials largely chosen for low environmental impact, whilst still being stylish and modern. Come and see what's possible with a lot of imagination and careful consideration of how to save money as well as reducing your carbon footprint. It's a prime example of how a very well insulated envelope can make such a difference, and is a vital component of any eco open house design.

Energy efficiency measures

Heating and hot water

Air source heat pump (though would have a different system if we had done this more recently)

Air circulation system - Air flow in and out. Vents in the roof. Outgoing air warms incoming air.

Insulation

Walls - Lower floor cavity brick, upper floor timber, entire property double insulated and wood clad

Windows - Standard double glazing units

Roof - Reconstituted slate tiles to lower environmental impact

Renewables and low carbon technology

Air Source Heat Pump

Electricity

Just changed over to Octopus so only have a very short history, therefore unable to provide accurate figures at this stage.

Other sustainable measures/ lifestyle decisions

Maximising light.

Aims to maximise the integration of home and garden.

Maximise useful storage for beach location.

Ensure that the materials survive the coastal location.



Air circulation system:

Domus - HRXE-AURA - Domus Ventilation

https://domusventilation.co.uk/catalog_products/hrxe-aura/

Architect:

Richard Morris

Lessons learned

Learning about air source heat pumps. I'd do a better job on insulating the pipe work and install a far smaller heat pump. I would not put underfloor heating upstairs.



Professionals/materials

Double Glazing:

Sunflex aluminium windows and Evolution 70 plastic
R&D Goatley
<https://www.randdgoatley.co.uk/>

Reconstituted slate tiles:

BMI Redland Cambrian Interlocking Slate 4701
<https://www.jjroofingsupplies.co.uk/bmi-redland-cambrian-interlocking-slate-4701/>