

GREENHEART SUSTAINABLE CONSTRUCTION



New build passive house - 'Eastrip Lane'

Location: Colerne, Wiltshire
Design: Greenheart Sustainable Construction/S2 Architects
Build: Greenheart Sustainable Construction
Energy Modelling: DeltaQ
Structural: Element Structures
Completed: 2019
Budget: Approximately £400,000

Project brief

Built into a steep slope, as a replacement for a dilapidated bungalow. 'Eastrip Lane' is constructed from timber I joist, Warmcell insulation, wood fibre external sheathing, and Polymer render/fibre-cement cladding.

Client testimonial:

"After a year of occupation in our new home, we had become very aware that our lived experience in Eastrip Lane had dramatically changed for the better, in terms of comfort, wellbeing and running costs. Partly because of the latter, we started monitoring our energy use and furthering our understanding of ultra-low energy buildings and how they perform. We now have data for both heating, hot water, energy generation, internal humidity and CO2 levels"

"During the planning stage, after much deliberation and trusting in Greenheart's track record, we had decided not to certify. So as the first year ended, the sense of anticipation grew as we were about to find out if we had a Passivhaus. We comfortably passed the test, and the following years have provided amazingly consistent results"

"Having collated this comprehensive record of performance data, we contacted the Passivhaus Trust about taking part in the biannual International Passivhaus open days. As part of this involvement, we underwent the process of self-declaring ourselves as a Passivhaus, by submitting our consultants PHPP calculations, along with a years' worth of performance data. Our application was accepted and as a result we now have a registration number and an entry on the Institute's database"

"Although we are thrilled to have achieved registration, if we built again, we would certify. In our case, the protection certification provides against performance shortfall fortunately proved not to be necessary, but it would have added value to the project, because of the growing recognition of the standard."

Find out more: www.greenheartuk.com

