

## **Passfield Drive – Retrofit for the Future**



Funded by the Technology Strategy Board and implemented in collaboration with Southern Housing, the aim of this social housing retrofit by bere:architects, is to show that deep-energy cuts are possible with social housing stock. The aim is to show how improved thermal comfort, reduced energy bills and lower CO<sub>2</sub> emissions are possible for millions of people in existing houses. It is a robust demonstration building where specific heat energy requirements have been reduced dramatically by super-insulation to create a very comfortable, healthy indoor environment that is warm in winter, cool in summer, and has plentiful high quality indoor fresh air all year round. This building in London uses, among other products, Vacupor® Vacuum Insulation, to improve the thermal efficiency of the ground floor.

bere:architects turned to Vacutherm when looking for Vacuum Insulation for the ground floor. Vacutherm specified Vacupor® NT at 25mm thick for the floors, to achieve the U-Value required. They also carried out a design to demonstrate how the panels could be nested and then installed onto the floor. This meant that only the correct panels were ordered and delivered to site.

More information on Vacupor Vacuum Insulation Panels can be found at [www.vacutherm.co.uk](http://www.vacutherm.co.uk)

Justin Bere, Director stated, “Vacutherm provided us with the expertise of integrating Vacupor® Insulation. The vast range Vacutherm offer enabled us to treat the floor with an effective and highly insulating solution”.

The advantage of using Vacupor® NT was that the floor could be insulated effectively without having to carry out any remedial works on the floor itself.

Vacutherm are proud to have contributed to bere:architects designs for the property at Passfield Drive, especially as the project has recently been nominated in the Sustainable Housing Awards. In addition, Passifield Drive was a winner in the 2012 – Green Building Awards; a leading construction industry award which aims to recognise projects that demonstrate outstanding energy efficiency results.



This approach to improving and insulating the UK's housing stock is increasingly essential in particular to protect our growing elderly population, as well as to protect the planet from the adverse effects of high CO<sub>2</sub> emissions from the developed world.

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