

## Building Simulation Limited

Being green is not enough. With the growing world population and finite resources, buildings have to be carbon neutral.

For almost 25 years, Building Simulation have provided independent low carbon advice to building owners, developers, architects and engineers.

Building Simulation are specialists in **building simulation** and **building performance analysis** using dynamic simulation (DSM) and computational fluid dynamics (CFD) modelling. They are leaders in innovative low carbon simulation which requires a high degree of low energy expertise, modelling experience and engineering judgement.

*"We worked with Building Simulation on the Westfield Shopping Centre in London. Excellent service and high quality work."*

Les Smith, Managing Director, Cudd Bentley

*"I can confidently recommend Building Simulation to any team who wants a common sense approach and a successful project. That was certainly the case on Bluewater."*

Roy Casey, Director, Roberts & Partners  
Project Manager for Bluewater's MEP Design

*"Natural Ventilation at its best – no heating, no cooling, no mechanical ventilation. The wind tunnel modelling and dynamic thermal simulation gave us confidence that the scheme would work, using a balanced control of natural ventilators / windcatchers and the open entrances to the malls. After six months operation covering the summertime, we have no surprises as the internal temperatures closely track the predictions of the dynamic thermal simulation, and we still have the ability to introduce night-time cooling should there be a period of non-typical high summertime temperatures. From our monitoring of the mid season conditions, we can confidently anticipate the winter predictions will also prove to be correct."*

*The advice and assistance provided by Building Simulation has resulted in a most desirable comfort controlled environment, achieving a highly efficient energy performance for the long term benefit to both our Client and the environment".*

Ian Turner, Technical Director RPS Gregory

Building Simulation have a proven track record in delivering evidence based advice that is practical and easy to understand. Even compliant designs can seriously under perform. When it matters to get it right first time then ensure that the performance of the design is fully understood before construction begins.

Rapid simulation for low carbon buildings

Evidence based energy advice

Dynamic Simulation modelling (DSM)

Computational Fluid Dynamics (CFD)

Commissioning natural ventilation against simulation evidence

Diagnostic Thermographic Surveys

Thermographic Surveys

(BREEAM 2011)



Building Simulation Limited  
PO Box 1450  
Devizes  
Wiltshire  
SN10 5WB

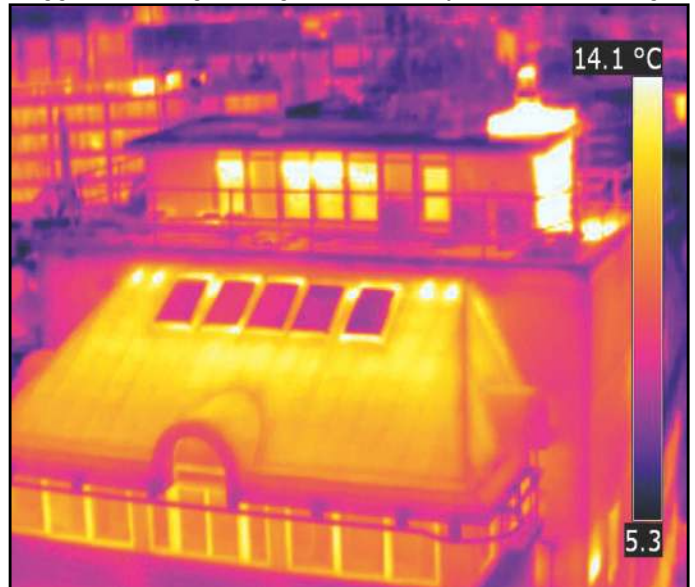
Tel : 01380 739659

Email : [cathie@buildingsimulation.co.uk](mailto:cathie@buildingsimulation.co.uk)  
Website : [www.buildingsimulation.co.uk](http://www.buildingsimulation.co.uk)

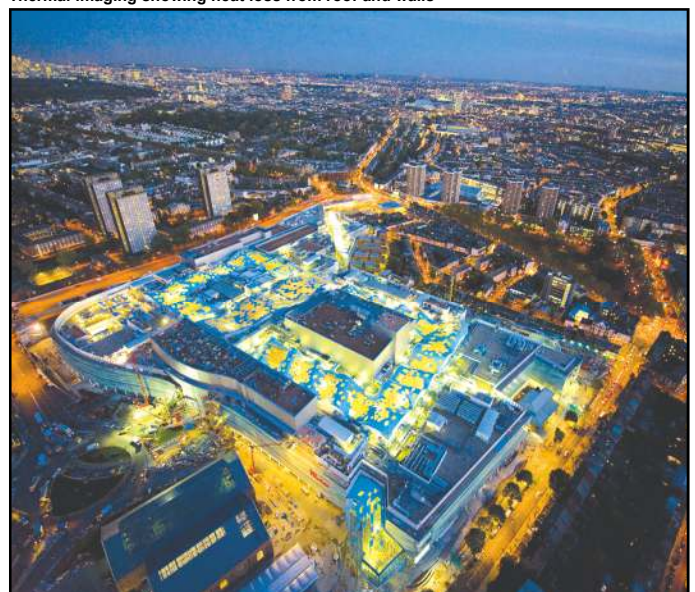


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Being green is not enough - building simulation is the way to carbon neutral buildings



Thermal imaging showing heat loss from roof and walls



Westfield Shopping Centre, London

 **Building  
Simulation**  
*The building performance analysts*