

THE PASSIVHAUS HANDBOOK

A practical guide to constructing and retrofitting buildings for ultra-low-energy performance

Janet Cotterell & Adam Dadeby

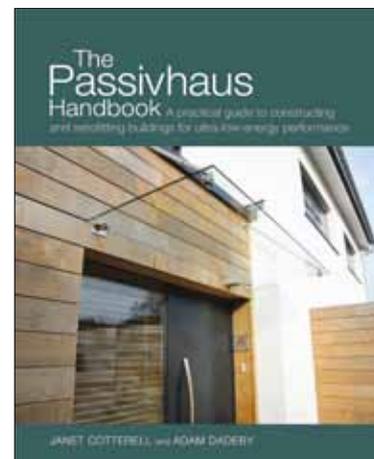
- A practical guide to building using Passivhaus standards
- Suitable for new build, and retrofitting existing buildings
- Full colour photographs, charts and diagrams throughout

Passivhaus is the fastest growing energy performance standard in the world. The Passivhaus Standards strengths lie in the simplicity of its approach; build a house that has an excellent thermal performance, exceptional airtightness with mechanical ventilation.

Passivhaus buildings provide a high level of comfort while using very little energy for heating and cooling. Built with meticulous attention to detail and rigorous design and construction according to principles developed by the Passivhaus Institute in Germany, they can be certified through an exacting quality assurance process, and because of their energy saving properties they are becoming very popular in the UK.

With steeply rising energy prices, uncertain climatic changes and straightened economic times, the Passivhaus approach, proven over 20 years, offers a timely and practical response. *The Passivhaus Handbook* provides a clear understanding of the principles of the Passivhaus approach and how to apply them in practice to both new build and retrofit projects.

The Authors: Janet Cotterell and Adam Dadeby are directors of Passivhaus Homes Ltd., which has recently completed one of the very few fully Certified Passivhaus retrofits in the UK; their retrofit is also exceptional in having achieved one of the best air-tightness results in the UK. Janet is a chartered architect with a background in the use of natural building materials. Adam worked in management/IT in public and commercial sectors. Both completed postgraduate studies in Advanced Environmental & Energy Studies and are Certified Passivhaus Consultants/Designers.



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PART TWO: Design and
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