LOMAS AND MITCHELL ARCHITECTS







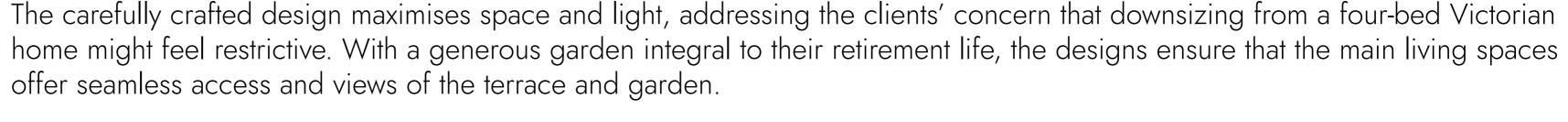
New build passive house - 'Blackwood House'

Design company name: Lomas Mitchell
Build company name: Ace Kind Construction

Project location: Shropshire
Project completion date: 2020

Project brief

Blackwood House is a thoughtfully designed new home, created for clients who have lived in their village for over 40 years. Built in the garden of their former family home under the 'affordable homes' planning policy, the design was limited to 100m2 of habitable space, along with a detached single garage and a detached garden studio.





- Designed to Passivhaus standards, Blackwood House is highly insulated, airtight, and is equipped with controlled ventilation and heat recovery, providing comfort and energy efficiency
- · The timber-framed superstructure sits on insulated raft foundations and triple-glazed doors and windows completes the thermal envelope
- · A Pichler PKOM4 combined heat pump, DHW tank and whole-house ventilation system provides healthy, fresh air throughout the house
- · In-roof PV panels on the house and garage provide electricity and a rainwater harvesting system under the terrace provides water for the washing machine, flushing toilets plus whatever might be needed for the large garden
- · The Studio is similarly low-energy and uses a ventilation system suitable for small dwellings from Paul Heat Recovery

Find out more: www.lomasandmitchell.co.uk/architects-derbyshire-blackwood-house

