



Deep Retrofit and Extension, Wells

Design Company name: Hill Reading Architects/Red Kite Design and Build

Build Company name: Red Kite Design and Build

Structural Design: David Edwards and Associates

Location: Wells, Somerset

Completion: 2025

Project brief

To transform a dilapidated end of terrace house into a striking low energy family home, preserving the character of the house whilst taking it in a new and contemporary direction - all with a focus on low embodied energy materials.

The ceiling of the extension to be vaulted to give a sense of height to the space and show off the oak beams, and a striking interior design including herringbone oak flooring and a varied colour and lighting palette gives this project an interesting twist.

Sustainability features

- This deep retrofit and extension were designed to meet Enerphit (component method) criteria, although certification was not sought
- The existing building uses both internal and external woodfibre insulation, PIR floor insulation, and I joist loft conversion structure using blown in cellulose insulation
- The kitchen extension uses an insulated raft foundation system incorporating underfloor heating into the main raft, and also uses timber I joist, woodfibre and cellulose construction
- Stone was reused from the original extension and garden wall to build the new rear stone wall of the extension and new garden retaining walls, which contrast with the more modern look of the zinc cladding

Find out more: www.redkitebuild.com

