



LOWFIELD
TIMBER FRAMES

Passive House Scheme Much Wenlock, Shropshire



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lowfieldtimberframes.co.uk



Project type: Social Housing

Size: 12 units

U-value: 0.13

Air tightness: 0.6ach @50 pascals

Completed: July 2018

System used: 270mm Larsen Truss with Warmcel Insulation

The 820m² development comprises one, two and three-bedroom homes, including two shared ownership and ten social rentals.



The Larsen truss system allows for a thicker wall space. This space was filled with Warmcel Insulation.

Wall thickness can be varied to achieve required U-value.

The Larsen truss helps reduce thermal bridging.

Passive House was
commissioned to reduce
energy consumption and
eradicate local fuel poverty.



Smart ply airtight
boarding was used
internally utilising
airtight tape on all
joints.

Service runs were integrated into
the floor zone at design stage to
allow for easy installation of
MVHR.



The timber frame and thermally modified hardwood cladding designed for this project promote the housing association's aim for carbon reduction and a cohesive, circular economy in Shropshire.

Service hatch to the gable end to access the loft, this allows for the loft space to be filled with Warmcel insulation and avoid penetrating the airtightness layer.







Contact Us

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