

## Bespoke beams for LOW-ENERGY HOMES

"What's critical

about our build

efficiency"

Fabric is at the centre of the Passivhaus standard, a world-leading standard in energy efficient construction. By creating airtight homes with superior insulation and mechanical ventilation, Passivhaus increases energy

performance and reduces the need for heating and cooling systems.

only company in the UK method is an to be certified by the Passivhaus Institute in Germany, has recently undertaken the construction of a new house in Coventry for

Orbit Homes. Bespoke concrete beams have been supplied by Carter Concrete for the project, which will be built to Passivhaus standards and certified by

Speaking of the Beattie Passive methodology, which exceeds Passivhaus standards, Ron Beattie said: "What's

critical about our build method is an exceptionally high standard of fabric efficiency". Each material used in exceptionally high standard of fabric the construction process contributes towards achieving an airtightness standard of 0.6m3/hm2.

Carter Concrete's

foundation beams span three metres and form the base for the ground floor,

providing support for both the ground floor and brick façade. The beams also act as a rigid framework within which Ecoslabs, expanded polystyrene foam slabs, are laid to form a barrier between the insulation material and the ventilated void underneath the structure.

Each beam is produced in Carter Concrete's controlled factory environment which reduces time spent on site. Lifting eyes are preinstalled to facilitate both lifting and positioning of the beams.

Carter Concrete has also supplied beams for bespoke projects throughout the UK, including in Suffolk for a Blackburn's project utilising the Beattie Passive system and for a housing scheme in Fife, Scotland.