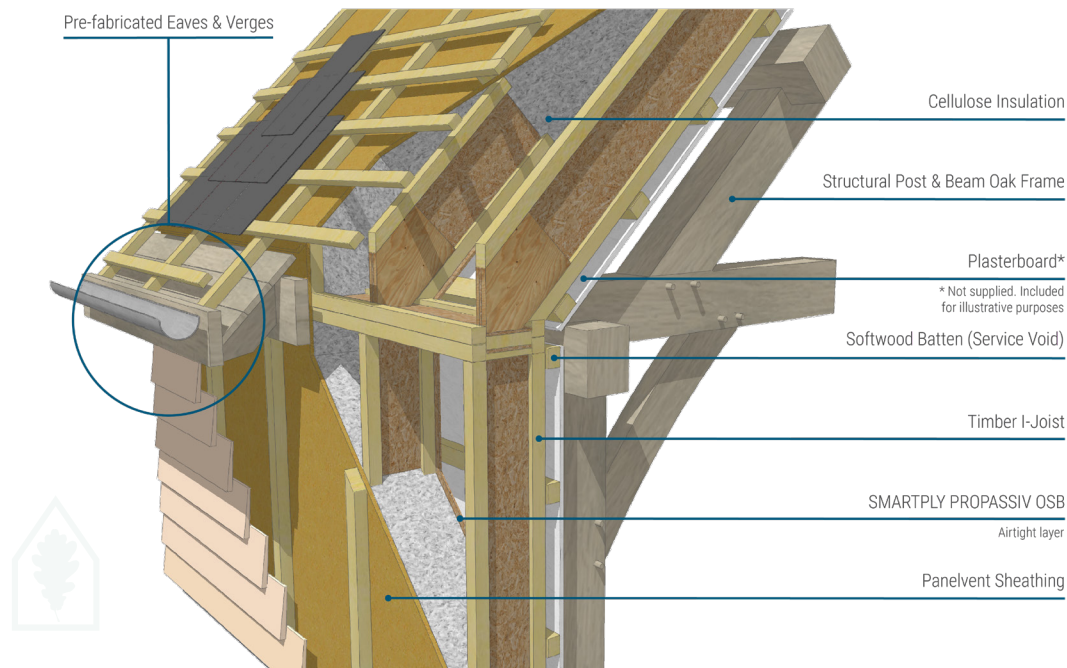


# OAK WRIGHTS®

Beautiful by Nature



## WrightWall Natural and WrightRoof Natural

Our WrightWall Natural and WrightRoof Natural encapsulation system provides exceptional thermal performance, ensuring your home is healthy and warm. Built to meet Passivhaus levels of insulation, this system has standard U-values of  $0.15 \text{ W/m}^2\text{K}$  for walls and  $0.12 \text{ W/m}^2\text{K}$  for the roof\*, as it wraps seamlessly around your oak frame.

With an enhanced version being used on the first UK oak frame Passivhaus, you can rest assured that when choosing this product for your own oak frame build you are going to achieve the highest quality of construction standards, building a home that will be exceptionally comfortable and energy efficient, helping to reduce future household bills.

### Benefits of WrightWall Natural

#### Breathable

Designed so that your walls can breathe, allowing atmospheric moisture to move and dry outwards, while retaining excellent airtightness performance, avoiding unnecessary moisture build up. This delivers the benefits of traditional, breathable materials in a controlled, contemporary fashion.

#### Natural and recycled content

The insulation used within our Natural panel is made from recycled newspaper and therefore contains cellulose, the natural fibre of wood. This material also retains the positive characteristics of wood being that it is

a particularly good insulator. Approximately 45 per cent of the  $\text{CO}_2$  stored in the wood remains in the waste paper, from which 90 per cent of the insulation is made and thus, 1kg of the insulation retains around 1.4kg of  $\text{CO}_2$ .

#### Heat retention and keeping cool

Built with excellent insulation density, WrightWall Natural provides impressive U-values, improving the thermal performance of your walls and roof. This means increased comfort, lower running costs and energy bills.

WrightWall Natural further benefits your home by reducing outside noise and keeping your home at an optimum temperature. The encapsulation system has an excellent decrement delay factor. This means the heat from the midday sun doesn't penetrate the wall panel until the evening when the temperature is cooler and a comfortable temperature can be maintained. Having this level of temperature control is particularly advantageous in open plan and vaulted spaces as found in many oak frame homes.

#### Airtightness

Airtightness is an integral feature of WrightWall and WrightRoof Natural and the utilisation of Passivhaus quality sealing tapes ensures draughts and uncontrolled ventilation are virtually eliminated. A mechanical ventilation and heat recovery unit (MVHR) may be required to provide your home with high quality fresh air all year round. This can be run via photovoltaic solar panels to further reduce your home's reliance on fossil fuels.

#### Service voids

Both the WrightWall and WrightRoof Natural systems include an internal service void to provide a straightforward solution to installing first fix electrical and plumbing services, prior to plasterboarding.

*“With Oakwrights WrightWall Natural in place, we had no need to install heating to the first floor of our house. Our utility bills are very, very cost effective. Less than £1,000 a year.”*

Mrs Milne, Homeowner

[oakwrights.co.uk/encapsulation](http://oakwrights.co.uk/encapsulation)

For more information on our encapsulation options please don't hesitate to get in touch! If you are looking for a more cost effective solution for your forever home, our standard WrightWall and WrightRoof encapsulation systems could be a better fit.

\*U-values are subject to detailed calculations and can vary depending on exterior finish.