

# WrightRoof Natural<sup>2</sup> panel system

*Natural, breathable roof panel system*

Elements  
by OAKWRIGHTS®

## Overview

WrightRoof Natural<sup>2</sup> is a high performance structural timber roof system designed to deliver excellent energy efficiency. By using thicker insulation, the system helps to lower the U-value and minimise cold bridging for a warmer, more efficient building as well as improving the envelope thermal mass.

Ideal for both residential and commercial projects, the system meets all current Building Regulations and is a smart choice for sustainable, modern construction.

## Features

### Breathable construction:

Allows moisture to pass through the roof system, reducing risk of condensation and improving indoor air quality.

### Natural materials:

Built using STEICOzell woodfibre insulation and responsibly sourced timber.

### Modern methods of construction:

Pre-fabricated under workshop-controlled conditions for accuracy, speed, and reduced site waste.

### Sustainable and low-carbon:

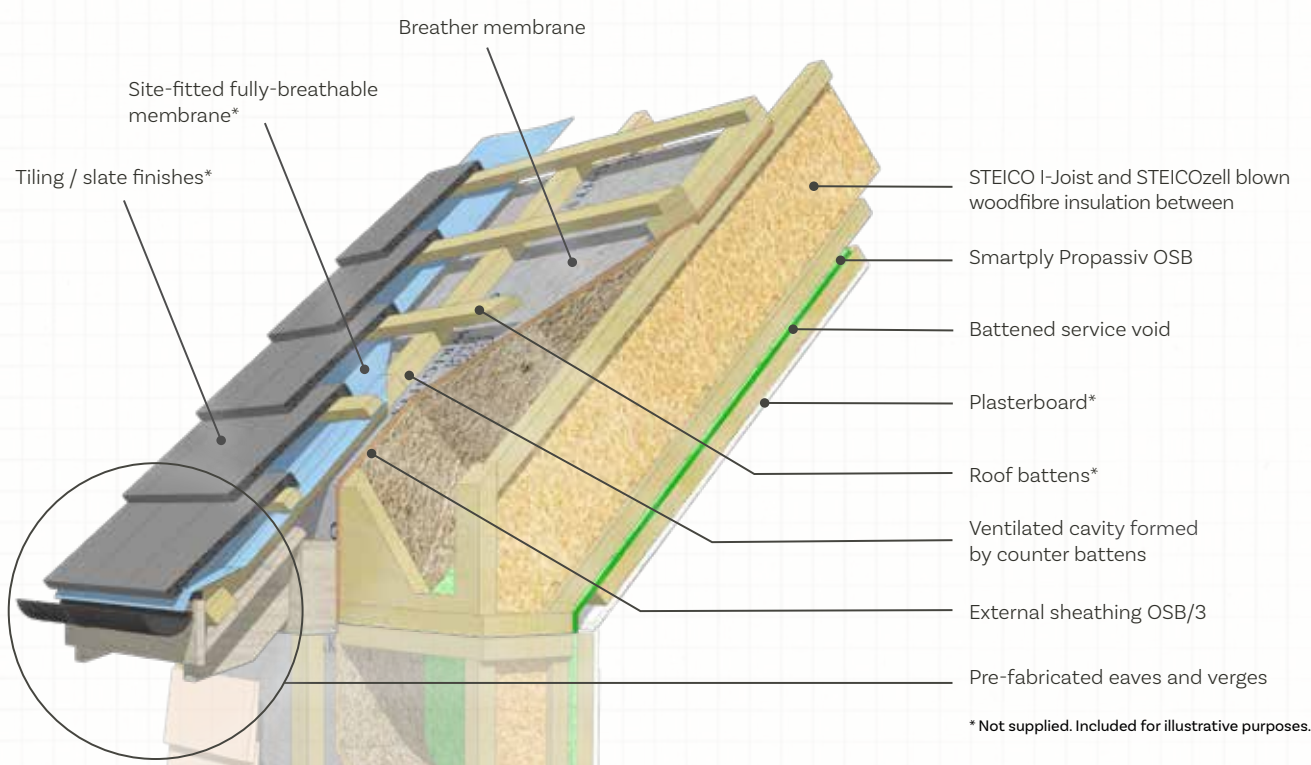
Insulation made from fresh conifers from regional sustainable forests, this product is approximately 81% woodfibre.

### High thermal efficiency:

Low U-values achieving passive house levels of airtightness.

### Fast and efficient installation:

Delivered in large, pre-insulated panels for rapid assembly and weather tightness reducing time on site and providing dry site for follow on trades (plumbers electrician, etc).



## Roof Build-Up

Layer	Description
Battened service void	Provides space for internal services.
Smartply Propassiv OSB	Structural board with integrated vapour control; ideal for energy efficient and Passive House builds.
STEICO I-joist (300 mm/360 mm)	High strength engineered structural element offering versatility and superior load bearing for walls and roofs.
STEICOzell blown woodfibre insulation	Natural blown STEICOzell insulation with excellent thermal performance and moisture regulation.
External sheathing OSB/3	Structural panel adding rigidity and strength to wall and roof systems.
Breather membrane	Water resistant and vapour-permeable membrane protecting the panels during and after construction while allowing moisture to escape.
Ventilated cavity	Creates the required air gap for ventilation.

Please note: all the components listed above are fully assembled in our workshop and delivered to site ready for erection. While all internal and external finishes will be installed by others onsite.

## Performance Data

Property	Value / Information
U-value (Typical)	0.13W/m <sup>2</sup> K to 0.11W/m <sup>2</sup> K
Airtightness	Achieves airtightness levels below Passive House levels (<0.6 ACH), when installed in conjunction with a suitable ventilation system.
Panel Thickness (Typical)	368 mm to 427 mm inc. internal and external battens (not including external and interior finishes).
Fire Resistance	Assessed and approved by an independent structural engineer to BS EN 1991-1-2 and BS 1995-1-4.
Vapour Permeability	Highly breathable system / the assessment reveals no risk for condensation within the build-up.
Embodied Carbon	Significantly lower than conventional wall systems.

## Compliance & Compatibility

- **Compatible with:** Oakwrights WrightWall Natural<sup>2</sup> system, AeroBarrierUK and Oakwrights products portfolio.
- **Standards:** Designed to exceed UK Building Regulations.
- **STA Assure Gold certified.**

### Uses

- Bespoke residential and commercial projects
- Passive house homes
- Energy efficient developments

### Why Choose WrightRoof Natural<sup>2</sup>?

- Designed and manufactured by Oakwrights' with over 25 years' experience in the construction industry.
- An In-house tech department to assist on all complex projects.
- Balances innovation, performance, and sustainability.
- Supports airtight, breathable, healthy energy efficient home design.
- Supported by a range of fully developed products and services inc. Joinery.