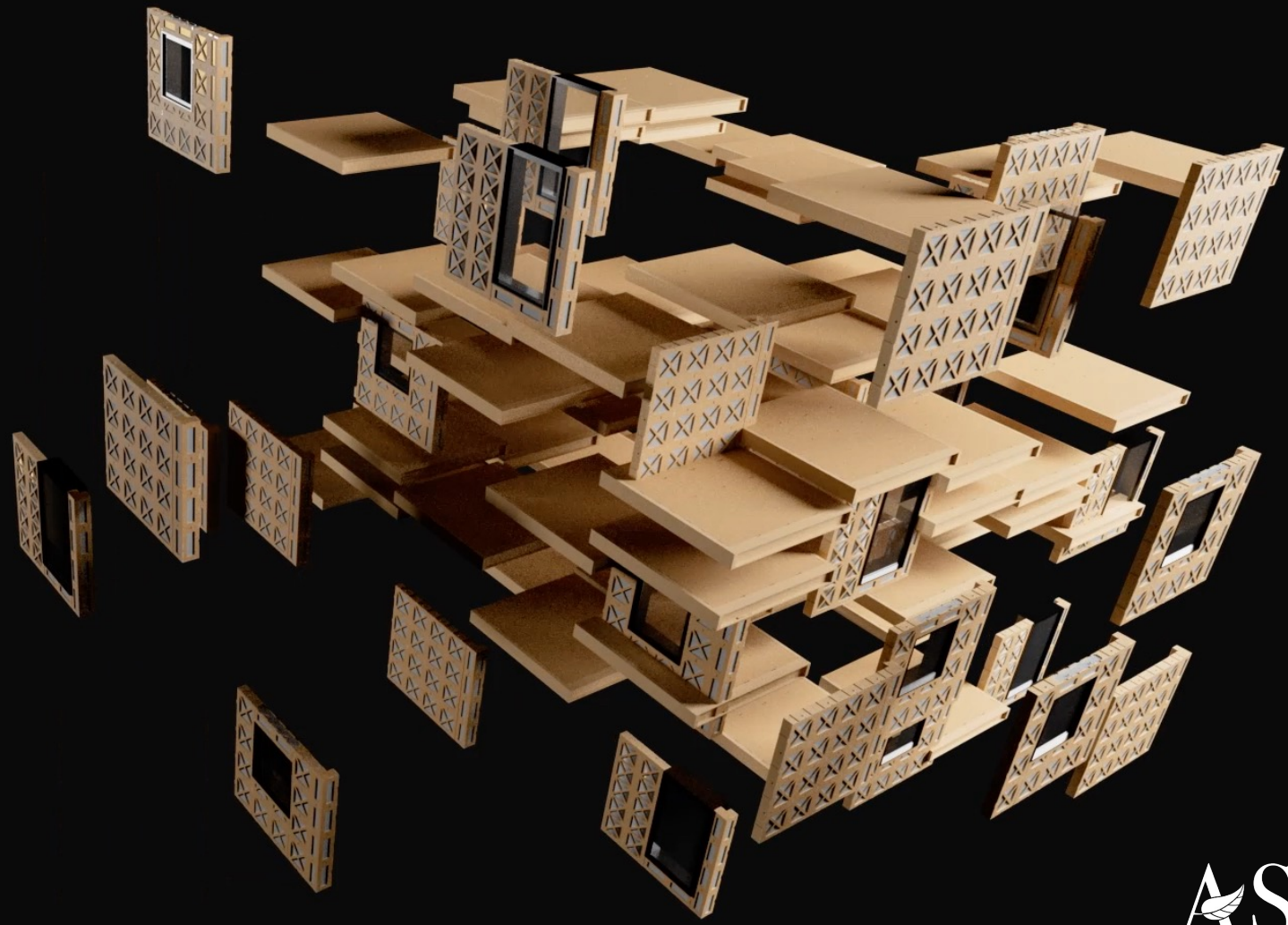
Natural Building Systems



Chloe Donovan, Managing Director

ASBP 2024 AWARDS

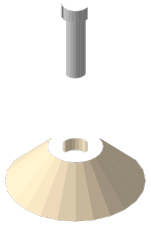
PRODUCT CATEGORY

ADEPT® Panels

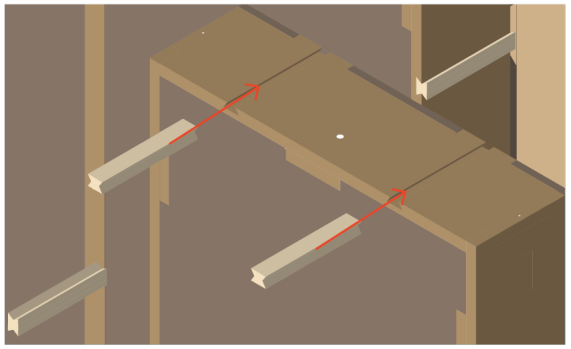
Climate Friendly

Moisture Regulating

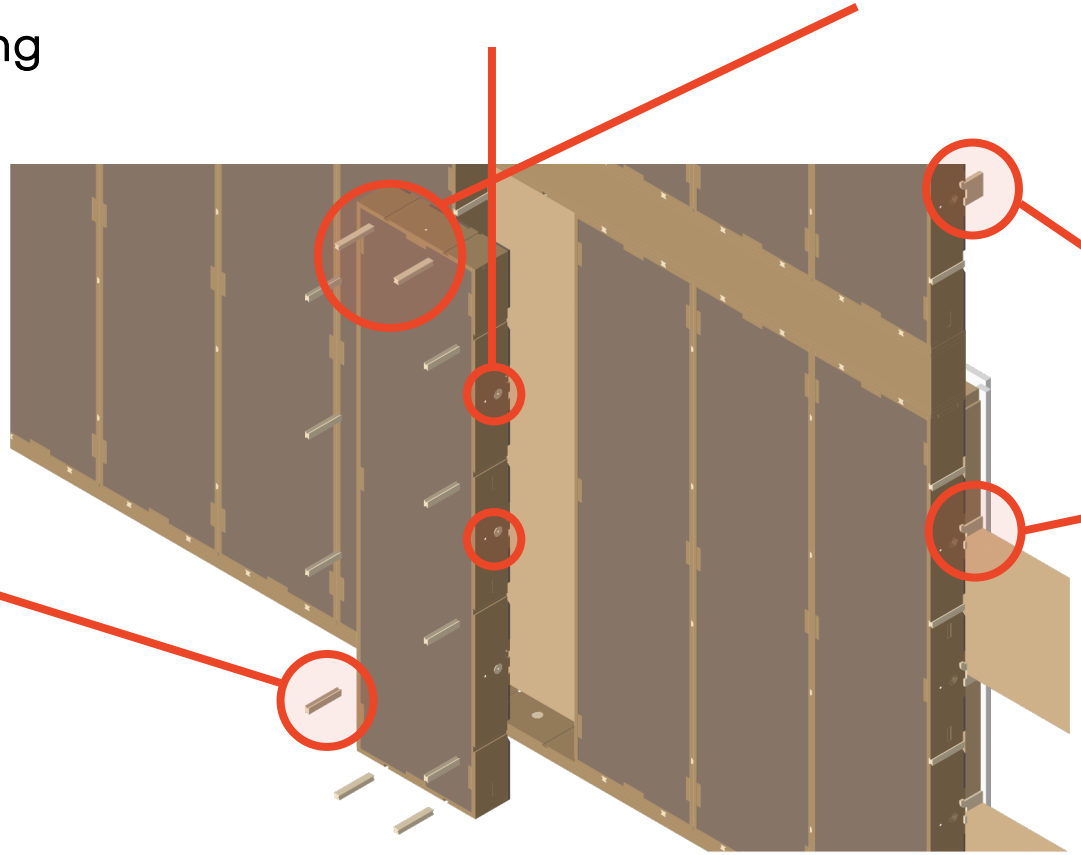
Adaptable Panels

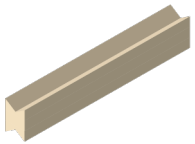


Cones
Cones work together with the pegs to align and lock cassettes together.

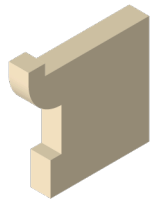


Pegs
Pegs allow easy and rapid assembly and disassembly, eliminating the need for screws or other mechanical fixings.





Pegs



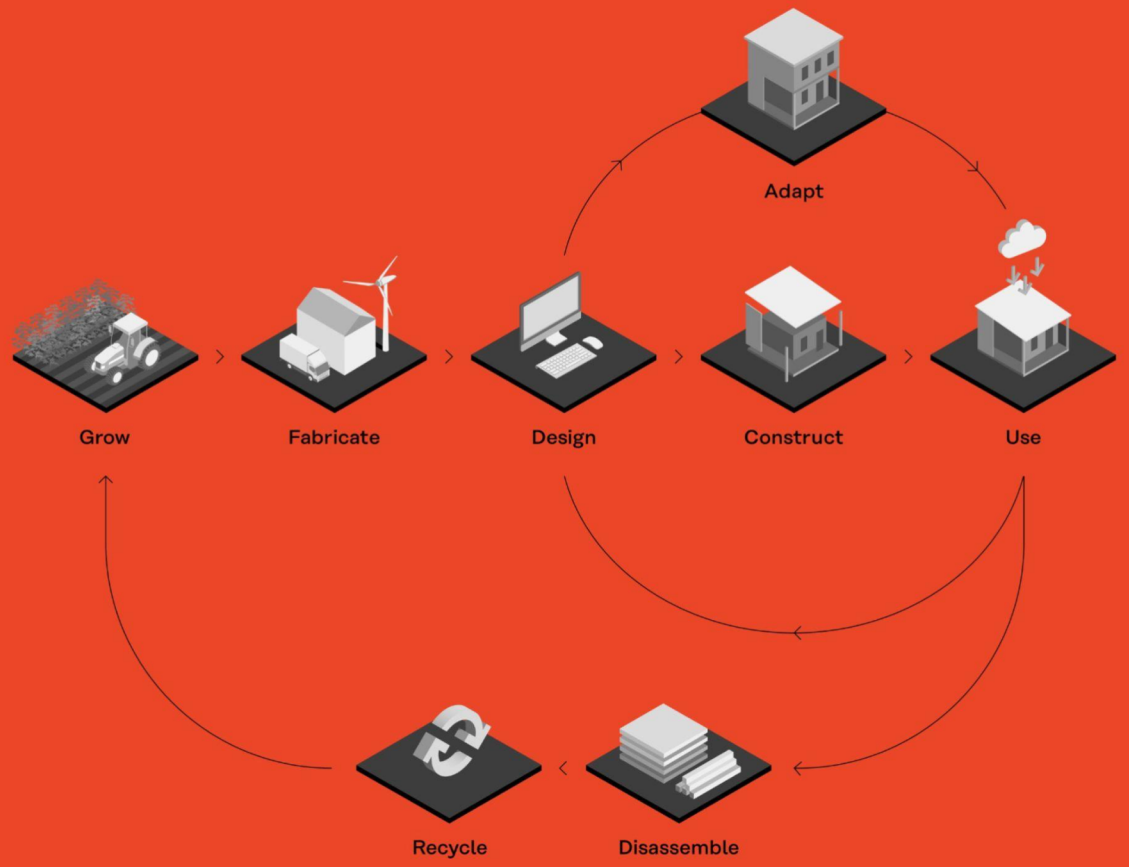
Brackets
Brackets secure a variable build up of additional insulation to meet any U value target, without the need for other mechanical fixings.

Resource efficiency

Whole life carbon

Ethics and transparency

The first regenerative system designed for disassembly and adaptation



- Systemising bio-based materials using digital fabrication enables an affordable, globally impactful solution to **low carbon construction**
- The use of short-cycle biomass crops such as industrial hemp with its fast growth enhances **natural carbon capture efficiency.**
- Standardised components and a distributed lean manufacturing model **reduces construction waste** and demountable cassettes enable reuse, **minimise waste** and maximise carbon savings.
- As a comprehensive construction system, it enables transparent carbon accounting and detailed **material passports.**

Highly efficient buildings needn't cost the earth.

Health and well-being

Technical performance

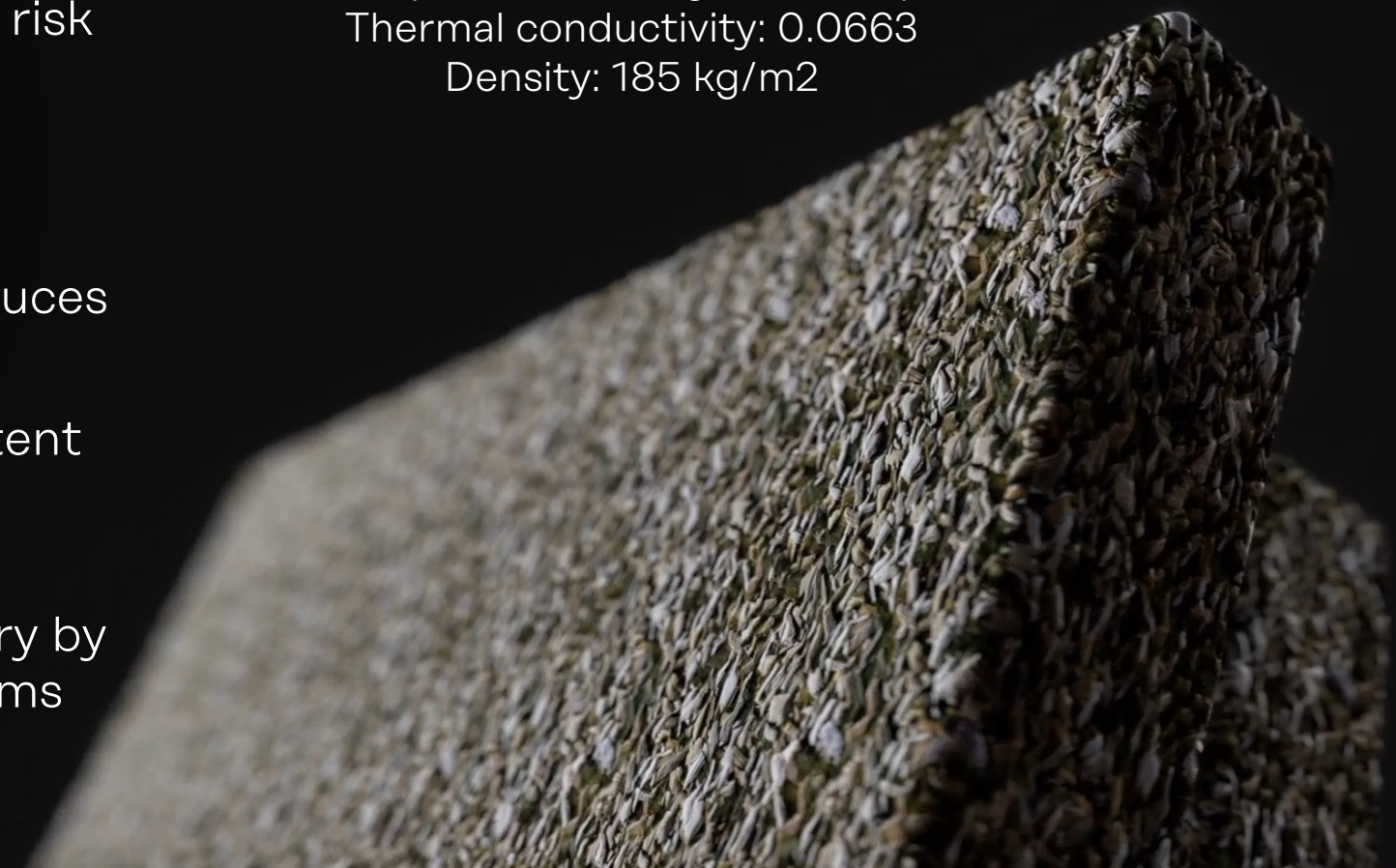
Social value

Our climate friendly HempSil® bio-composite*

- Improves air quality and reduces the risk of damp and condensation
- Has excellent acoustic and thermal buffering characteristics
- Is a hygroscopic insulation which reduces the need for mechanical ventilation
- High thermal mass maintains consistent indoor temperatures for improved comfort
- Supports the industrial hemp industry by creating local construction ecosystems

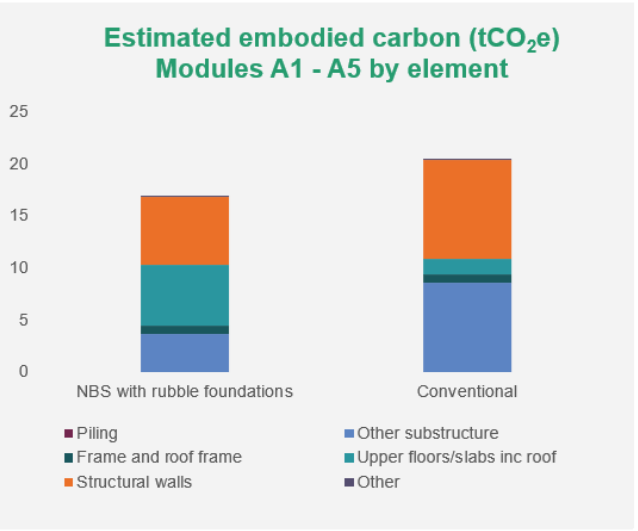
HempSil® **Characteristics**

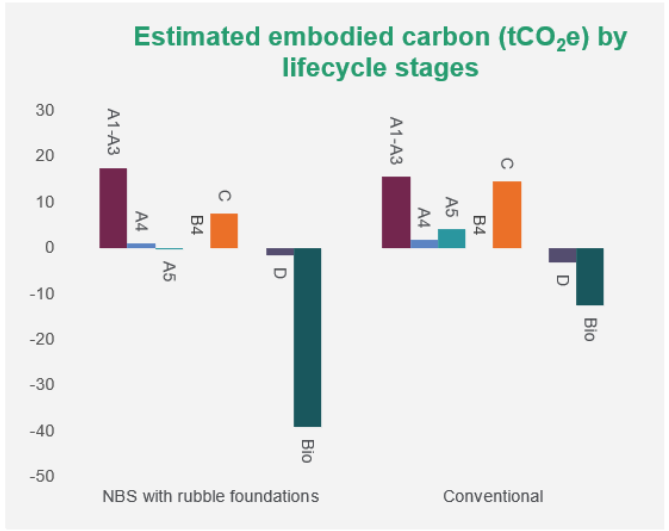
Moisture buffer value: 2.91 g/m2/%RH
Compressive strength: 0.18 Mpa
Thermal conductivity: 0.0663
Density: 185 kg/m2



Our goal is to facilitate networks of designers, contractors & manufacturers to supply components for over 100,000 homes per year within the next ten years

...turning our buildings into carbon sinks





The embodied carbon of a typical NBS building vs a similar conventional masonry and timber frame project with the overall embodied carbon (without sequestration) (left) vs across all lifecycle stages (right)

UK GBC Member · ASBP The Alliance for Sustainable Building Products ASBP MEMBER · TIMBER DEVELOPMENT UK · AECB building knowledge · Carbon13 · 2050 accelerator · CENTRE FOR HIGH CARBON CAPTURE CROPPING

Healthier for people, kinder to the planet