

# sugarcrete® ACOUSTIC BOARD

Sugarcrete® Acoustic Board is a bio-based material made from sugarcane bagasse fibers and biodegradable mineral binders. Developed by researchers from the University of East London's Sustainability Research Institute, and further refined in partnership with **BAGACEIRA**, the board combines acoustic and thermal performance with circular design. They are durable, free from synthetic resins and VOCs, fire-resistant, and fully recyclable or compostable at end of life. By storing carbon absorbed during sugarcane growth and avoiding the burning of bagasse waste, Sugarcrete® Acoustic Board provides designers with a low-carbon, safe, and versatile solution for interior acoustic treatments wall cladding, and partitions. **BAGACEIRA** has developed the material's color library using mineral based pigments for visible interior applications, transforming the natural fibrous texture into expressive surfaces.

## MATERIAL PROPERTIES

Acoustic absorption ( $\alpha_w=0.95$ , Class A)

Thermal insulation ( $\lambda = 0.07 \text{ W/mK}$ )

Fire-resistant (Class B-s1 d0)

Lightweight ( $524 \text{ kg/m}^3$ )

Biodegradable / compostable

VOC-free

Vapour permeable / hygroscopic regulation

Sturdy (compressive strength 2 MPa)



## NATURAL TONES

Full color library available upon request.



## POSSIBLE APPLICATIONS

Thermal Insulation

Acoustic wall panels

Interior wall cladding

Internal partitions

Decorative / Sculptural installations

For more information on the material properties and possibilities visit: [www.uel.ac.uk/sugarcrete](http://www.uel.ac.uk/sugarcrete)