

VCAM WOOD

Bamboo Charcoal Panel

Technical Data Sheet – Interior Wall & Ceiling Application

1. Product Description

Vcam Wood Bamboo Charcoal Panels are eco-friendly interior decorative panels manufactured from bamboo fiber, charcoal powder, and high-performance resin binders. Designed for interior wall and ceiling applications, they offer modern aesthetics, moisture regulation, odor absorption, and improved indoor comfort.

2. Material Composition

Bamboo Fiber	45-55%
Charcoal Powder	15-25%
Resin Binder	20-30%
Additives	2-5%

3. Panel Dimensions

Thickness	4 / 6 / 8 / 10 mm
Width	300 / 400 / 600 mm
Length	2400 / 2800 / 3000 mm
Edge Type	Square / Micro-groove

4. Physical Properties

Density	900-1150 kg/m ³
Moisture Content	≤ 8%
Flexural Strength	≥ 18 MPa
Surface Hardness	≥ HB

5. Performance Characteristics

Fire Rating: Class B (EN 13501-1)

Acoustic NRC: 0.25 – 0.35

Thermal Conductivity: 0.08 – 0.13 W/m·K

Charcoal layer supports moisture and odor absorption

6. Installation Method

Installation can be completed using direct adhesive fixing on flat wall or ceiling surfaces, or aluminum frame mounting for uneven substrates. Vcam Wood recommends the use of compatible adhesives and finishing trims for best performance.

7. Applications

Interior walls and ceilings, feature walls, commercial interiors, hotels, offices, showrooms, residential projects, and decorative partitions.



Bamboo Charcoal Wall Panels Installation Guide

STEP 1

Prepare the Wall

Clean the surface of the wall, ensuring it is dry, level, and free of dust or oil.



STEP 2

Apply Adhesive

Apply structural or contact adhesive in a zigzag pattern on the back of the panel.



STEP 3

Install the Panels

Press the panel firmly to the wall, making sure it is level and the edges are aligned.



STEP 4

Install the Edge Trims

Fix inner corner, outer corner, and end trims for a complete, professional look.



STEP 4

Install the Edge Trims

Fix inner corner, outer corner, and end trims for a complete, professional look.

Required Tools & Accessories:



Structural Adhesive



Contact Adhesive



Aluminum/PVC Edge Trims



Spirit Level



End Trim



Inner Corner



Outer Corner Trim

Required Tools & Accessories:

