



BIOPANEL LIVING WALL SYSTEM



Rainscreen cladding

CWCT tested
rainscreen
cladding system



Proven System

In use since 2007



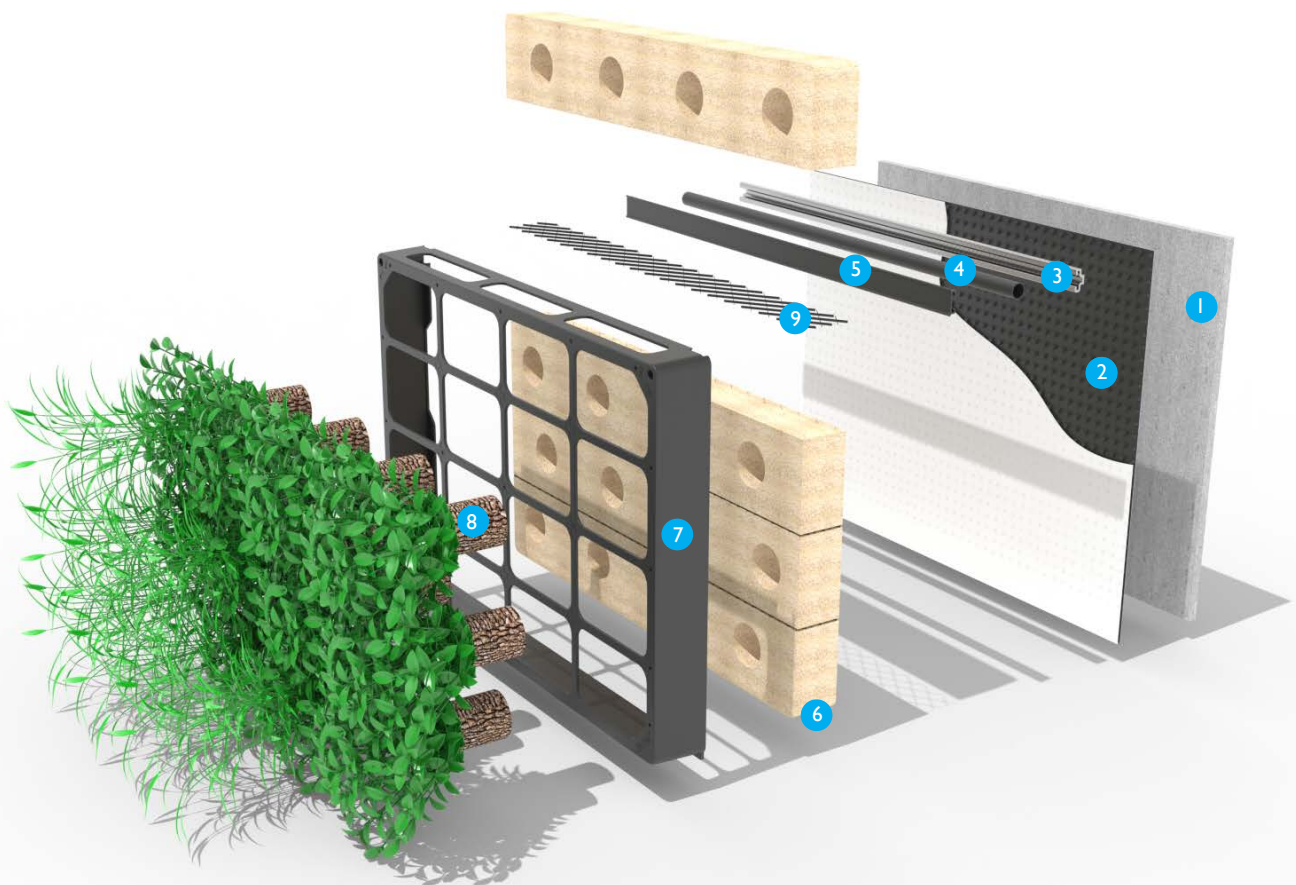
Hydroponic

Predictable growing
medium with automatic
irrigation



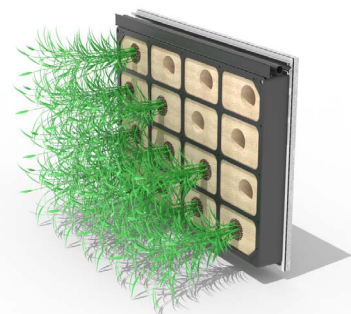
Resilient

Designed for long
lasting growth



- 1 A or B rated 12mm water resistant cement particle backing board
- 2 Geotextile drainage layer
- 3 Aluminium carrier rail
- 4 16mm polypropylene irrigation pipeline
- 5 Polypropylene irrigation cover

- 6 Growing medium - Grodan PP/100/100
- 7 Recycled polypropylene shell
- 8 Robust evergreen planting
- 9 Capillary breaks





Applications

- Living wall rainscreen cladding
- Newbuild or retrofit
- Internal or external use
- Residential projects under 11 metres
+ all other use types

Benefits

- Full green coverage (60 plants/m²)
- Non-combustible growing medium
- Multiple holistic benefits. e.g improved aesthetics, air pollution reduction and boosted biodiversity
- Support sustainability targets including Urban Greening Factor, Biodiversity Net Gain, BREEAM & WELL

Certifications

- CWCT (Centre for Window and Cladding Technology) tested
- Independent structural assessment
- Fire Engineering Assessment Report (B-s3, d2)

Available resources

- Full brochure and specification
- Standard details
- 3D CAD files (Rhino, Revit)
- CPD Sessions

Dimensions

- Panel dimensions: 600mm x 450mm
- Panel thickness: 60mm
- System thickness: 80mm + support structure

Weight

- 75kg/m² fully saturated

Support structure

- Support structure required at 600mm centres
- Support options include bespoke steel frame, Hilti helping hand brackets and Omega top hat

Irrigation & drainage

- Fully integrated automatic irrigation system
- Remote monitoring as part of a full maintenance package
- 16mm diameter dripline with pressure compensated drippers (4 per BioPanel)
- Irrigation zones for precision watering
- Low water usage 2L/m²/day
- Plant room or roadside cabinet required
- Additional moisture sensors if required
- Rainwater harvesting option
- Integrated gutters

Find more information on NBS Source or

www.biotecture.uk.com

Get in touch: enquiries@biotecture.uk.com | 01243 572118

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Maintenance