



# BIOPANEL LIVING WALL SYSTEM



## Rainscreen cladding

CWCT tested  
rainscreen  
cladding system



## Minimal combustibles

Designed with fire  
safety in mind



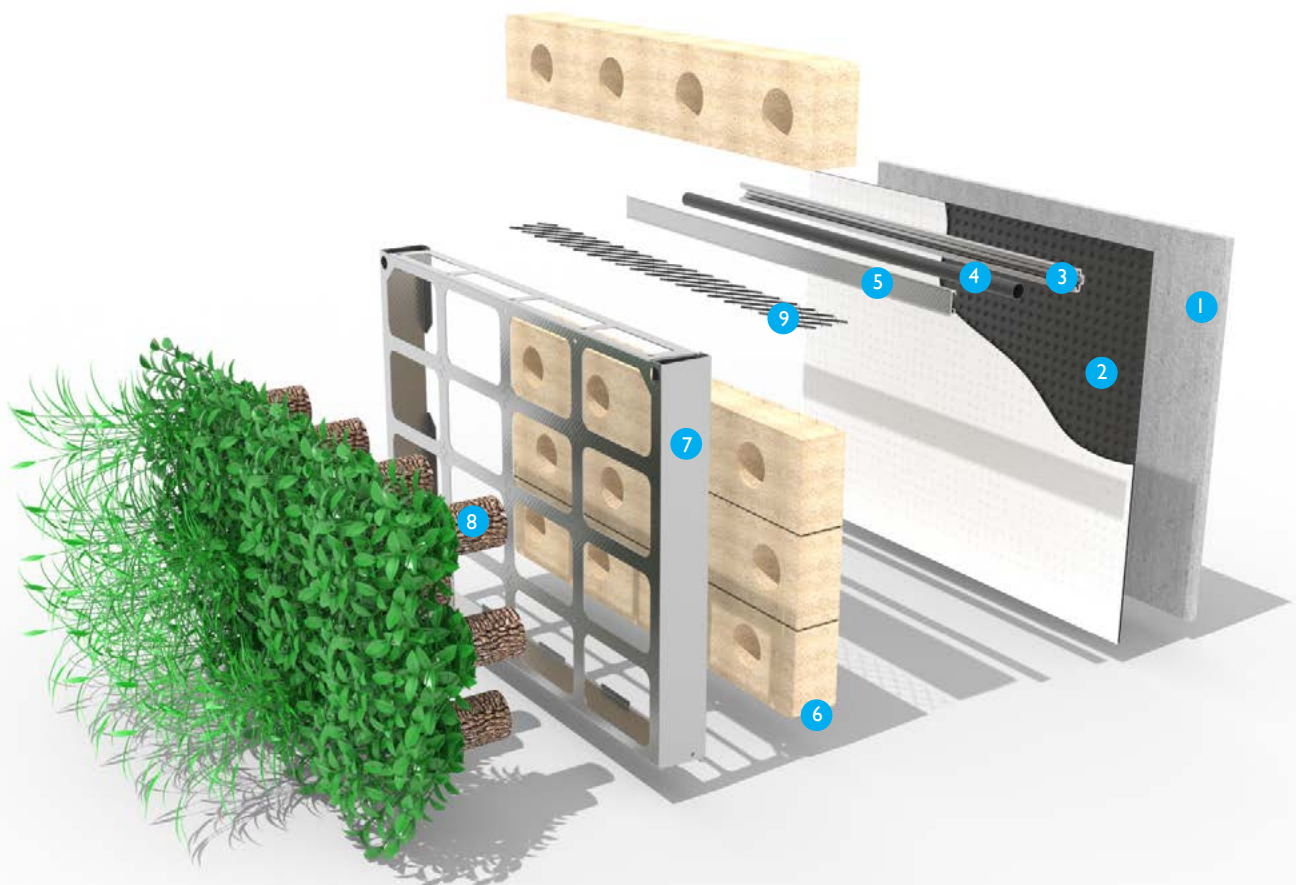
## Hydroponic

Predictable growing  
medium with automatic  
irrigation



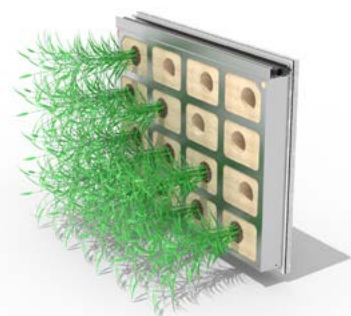
## Resilient

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 Self coloured aluminium cover

- 6 Growing medium - Grodan PP100/100
- 7 Self coloured aluminium 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/m<sup>2</sup>)
- 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 (Tested in operational conditions) (B-s2-d0)

## Available resources

- Full brochure and specification
- standard details
- 3D CAD files (Rhino, Revit)

## Dimensions

- Panel dimensions: 600mm x 450mm
- Panel thickness: 60mm
- System thickness: 83mm

## Weight

- 75kg /m<sup>2</sup> fully saturated

## Support structure

- Support structure required at 600mm centres
- Support options include bespoke steel frame, Hilti helping hand bracket 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 1L/m<sup>2</sup>/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](http://www.biotecture.uk.com)

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## Full design, installation and maintenance service from Biotecture



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