InterCoast BUILDING SOLUTIONS

# Evergreen® Vertical Green Walls

Flexible Lightweight Green Wall System

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| Standard size | 600mm(w)x500mm(h)x60mm(d) |
| System saturated weight | 50kgs per m2 |
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| System | A pocket planted lightweight inorganic substrate system. Rockwool based carrier with systemic feed and irrigation system. The growing area is mechanically fixed to reinforced rubber membrane that mounts to wall fixings. The system is mounted using aluminum profiles to a waterproofed wall. |
| Plant selection | Plant selection is defined by aesthetic requirement, aspects, location, exposure and maintenance requirements. |
| Module | Special UV stabilized water absorption fleece on top of rockwool block carrier attached mechanically to a reinforced UV resistant rubber membrane. |
| Module Fixing | Vertical aluminum profile attached to a waterproofed wall. Planted module fixed to the profiles by a metal fastener. |
| Module Fixing as cladding facade | Special designed aluminum profiles attached to the wall. Insulation layer used on top of the aluminum frame holders. The panels are mechanically attached to the frame using fasteners and extra security horizontal piece can be used in higher installations walls. |
| Module Size | 500mm(h), 600mm(w), 60mm(d) |
| Water retention layer | The planting material is designed to hold and distribute water to all areas evenly and consistently. |
| Filtration System | Filter units are part of the irrigation and feed system |
| Back flow preventer | To prevent contamination of water supply, connection to an in line tank might be required. Positioned between system and water source within filtration unit. |
| Substrate | Rockwool based module with drilled out sections for planting |

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| Irrigation System | Pressure compensating lines to independent modules, connectors to delivery lines and connectors to source 12-15mm. Includes backflow preventer, pressure regulator, timer, filter system, drain valve and all connections. |
| Water pressure/Flow rate | When the water pressure is high enough (minimum of 3.5 bars/600 litres per hour), the system is also capable of operating without having to use a pressure boost pump (break tank arrangement). |
| Water usage | System specific, calculated project by project. Irrigation will need to be based on a 7 day program. Daily rates will vary from 1 to 4L per m2 depending on temperature, pressure and plant selection. |
| Planting Density | 100 plants per m2 of designated blend to suit location based on plants list seen attached |
| Coverage | Initially 80-90% can be expected, at some time of the year some species might die or change color, coloration changes and seasonal gaps should be expected |
| Plant Type Indoors | As per list attached |
| Plant Type (Foliage Walls) | As per list attached |
| Feed Tank and dosing system | The system requires a feed dosing unit that will deliver liquid fertilizer to the main irrigation feed through and injection pump. Feed tanks range from 5-20L depending on the size of wall. |
| Wall Habitats | If required a range of nesting, insects, bat or butterfly boxes can be built into the units. |
| Break Tanks | In line tanks for ground or roof placement to separate direct feed to wall from water source. Can be placed underneath irrigation cabinet, if space is available. |
| Pump Systems | A pump will be required with every installation to manage water and ensure sufficient pressure to irrigate the wall |

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| | consistently. |
| Feed System | In line feed tank with injection pump and dosing unit, with low level fertilizer indicator. |
| Controller | Single phase or multi zone controller |
| Standard Cabinet for irrigation | 600mm(h)x800mm(w)x300(d) all controls, injection pump and feed tank are placed inside the cabinet. |

**Establishment:**
The system will take 4-6 months to establish under green house and then hardening conditions. Young species are developed to produce the plants for the modules and systems are constructed to order. Plants will take longer to develop depending on the time of year

**Maintenance:**
It is recommended to carry out annual maintenance at least 4 times a year to remove invasive plants and weed species and to prune if necessary. Also to remove dead leaves and replace plants when required.

For the winter period, special maintenance procedures should be followed. Please check our maintenance guide for more information.

| Initial Coverage | Estimate time for full coverage | Maintenance Requirements | Irrigation Requirements | Sustainability |
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| **90%** | 6-8 months | Medium | Required as Standard | Very Good |

**General Description:**
A sustainable Flexible lightweight system with uncomplicated and fast installation, that provides a range of high aesthetic cost effective cladding and screening.

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