



Aquateen Blue Green Roof

The weather cycle of hot/dry then very wet is becoming a common pattern, one which standard living roofs find difficult to cope without relatively expensive irrigation systems and many roofs are dead or dying therefore rendering them useless in their task of holding water, which is why the team at Aquateen developed a solution - Blue Green Roof.

Aquateen Blue Green Roof is a geo-composite mesh containing AquaSAF absorbent polymer sandwiched between two layers of wickable geotextile. It is designed to reduce rainfall runoff and/or to provide a valuable reservoir or passive irrigation system for living roof plants.

Aquateen Blue Green Roof can be incorporated into:

- the designed build-up of a living roof system or a landscape design to support a natural and ecological urban habitat;
- retrofitted failing living roofs where lack of water has caused plant die back.

Traditional irrigation typically wastes 80% of the applied water, Aquateen Blue Green Roof has proprietary technology, AquaSAF, which is designed to hold over 2000% of its mass in water; this high absorbency provides two critical functions:

- Increases rainfall attenuation – reducing rainfall runoff
- Captures water to keep substrate hydrated for longer periods
- Ease of handling, quick and simple to install
- Reduces and eliminates the need for costly irrigation
- Prolongs periods between watering
- Reduces plant stress
- Reduces substrate thickness saving money
- Helps reduce urban flooding and peak runoff

The ability to hold more water means that Aquateen Blue Green Roof can reduce the traditional costs of construction through reduced labour and substrate requirements which ultimately reduce weight and logistics, therefore enabling a more scientific calculation of the build of Living Roofs.

*Throughout the world wherever I have spoken at conferences or worked, storing water on green roofs is a significant issue and one that drives green roof policies in many cities/regions of the globe. Maximising the ability of a green roof or any roof for it to reduce excess storm water run off is a key factor that constantly requires new innovative solutions. Furthermore, keeping green roof substrates moist during periods of **no rainfall**, giving vegetation access to water, and reducing plant stress is a major issue for the industry.*

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Aquateen - Engineered Solutions for Living Roofs



The Aquaten product would appear to address some of those issues and ...I think that the product has many of the positive qualities needed to ensure that green roofs evolve in a changing climate and policy agenda.

Dusty Gedge - Green roof industry spokesperson, leading designer/consultant, and current President of the EFB European Federation of Green Roofs (and Walls).

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