

[Product①] We developed "Eco Green Mat®," a greening material for greening a roof, a wall surface and all.

- It has been used in the rooftop greening of about 1,870 locations in the 18 years by 2014.
- "Eco Green Mat" is made of recycled polyester fiber.
- It's thin and ultra-light yet it cultivates the plant vividly by both its drainage and high water retention.



Eco Green Mat



Condition of turf vegetation

[Product②] We developed "Seisankakumei®," a very lightweight recycled fabric culture medium.

- "Seisankakumei" is an artificial culture medium made from recycled polyester fiber.
- It is a specialized mix of an artificial zeolite resisting the fertilizer to run off, and various ameliorants.
- The developed medium is highly functional in "Overcoming the aging due to continuous cropping" and "stable water retention," and etc.



"Seisankakumei" is also adopted as a culture medium for farming.



Providing "the rooftop greening" by Eco Green Mat and Seisankakumei.

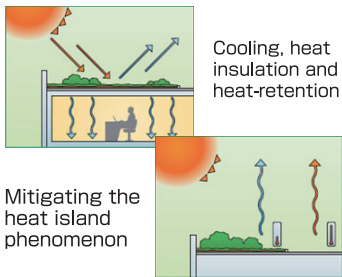
- It is a lightest (about 39kg / m² when wet) and thinnest (75mm) layer as "the roof greening system" in Japan.
- The system is adapted to the strictest condition, under 60kg / m² by Building Standards Act.
- A ultra-light system facilitates the cultivation of lawn that has been difficult in the rooftop greening.



Rooftop greening

"Benefits" of "Eco Green Mat," a green roof of EARTH CONSCIOUS

Benefit① "Energy conservation by cooling, heat insulation and heat-retention"



Cooling, heat insulation and heat-retention

Mitigating the heat island phenomenon

Transpiration by plants, in the insulating effect of eco-green mat, the average temperature of one floor below drops by 3 °C and it drops by 7 °C in the ceiling in summer (our research). Thereby saving heating and cooling costs in summer and winter. In addition, the heat island phenomenon is mitigated.

Benefit② "Healing effect"



Rooftop greening

A green space has the effect of stress reduction. It has been verified that suppressing the sympathetic nerve activity of a stress index, easing depression and reducing aggression by the rooftop greening.

Benefits③ Eco Green Mat "can also be attached to existing buildings."



"Eco Green Mat"

Performing a rooftop greening grass in natural soil weights about 160kg / m². By the Building Standards Act, a reinforcement work is necessary. On the other hand, Eco Green Mat of 39kg / m² is can be attached to existing buildings.

"Cost reduction" by "easy attachment and renovation" and "the long-term vegetation"



"Easy attachment and renovation" and "the long-term vegetation"

Eco Green Mat is easily able to attach (in 2 days, shortest) and renovate with because it's lightweight compared with the planting using the soil and its thickness is also about one-fifth. Its "durable period" is 12 years (actual 16 years in 2014 time) and longer compared to the normal soil so it can also be a "reduction of costs in introduction and maintenance."

To the beloved earth EARTH CONSCIOUS Corporation

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As an inventive manufacturer, EARTH CONSCIOUS has built up results and trust from customers.

We continue to be one and only partner for our customers.

The roof of head office



Aoyama

