

**[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 cultivate 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.**

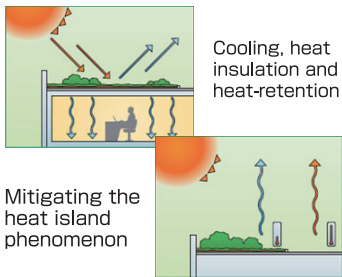
- It is a lightest (about 39kg / m<sup>2</sup> when wet ) and thinnest (75mm) layer as "the roof greening system" in Japan.
- The system is adapted to the strictest condition, under 60kg / m<sup>2</sup> by Building Standards Act.
- A ultra-light system facilitates the cultivation of lawn that has been 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 / m<sup>2</sup>. By the Building Standards Act, a reinforcement work is necessary. On the other hand, Eco Green Mat of 39kg / m<sup>2</sup> 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

**[Address]** 1-4-10, Suehiro, Tokushima-shi, Tokushima, 770-0866, Japan

**[Phone]** +81-88-602-0781

**[Fax]** +81-88-602-0782

**[Contact]** Kazuya Yamamoto

**[Email]** office@earth-con.co.jp

Please contact us via phone, fax or email.

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

