

# Keep energy costs from going through the roof.

Green roofing is a technology proven to make buildings more energy efficient. For more than a decade, large buildings with green roofs – such as airports, hotels and schools – have been recording significant energy-consumption savings.

A green-roof system involves a waterproof membrane, light-weight growing media, drainage layer and plants – all of which rest directly on a rooftop. The benefits include savings on energy for heating and cooling, decreased roof maintenance, sound insulation and aesthetic appeal.

Although a relatively new concept in North America, green roofs have been used extensively in Europe since the 1990s. More than 10% of flat roofs in Germany contain green-roof infrastructure.

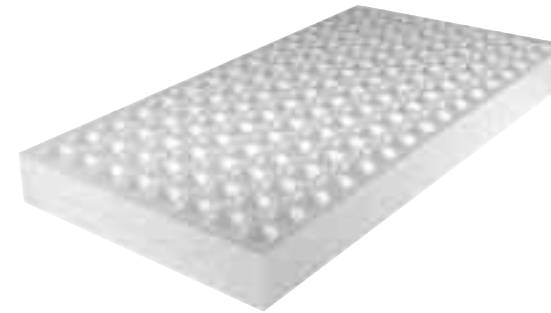


AN EXTENSIVE GREEN ROOF

A critical element in designing a successful green roof is the growing environment for the plants. Any large-scale installation can benefit from the use of pre-grown modules. Beaver Plastics has a modular approach for green-roof installations using our Hortiblock trays.

Hortiblock trays are rugged and lightweight, made from expanded polystyrene (EPS). Beaver Plastics developed the proprietary molding process that yields these high-quality trays. We have more than 30 years' experience manufacturing EPS trays. The

technology, proven in horticulture and silviculture nurseries, is now being applied to green roofs. When filled with an engineered substrate, Hortiblock trays make ideal pre-grown modules for green roofs.



## Contact us today

Call our grower specialists to discuss how our Hortiblock Trays can help you go modular.

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Toll Free: 1-888-453-5961

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Email: [growerinfo@beaverplastics.com](mailto:growerinfo@beaverplastics.com)

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*propagation tray manufacturer*

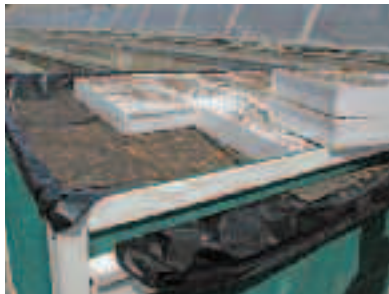
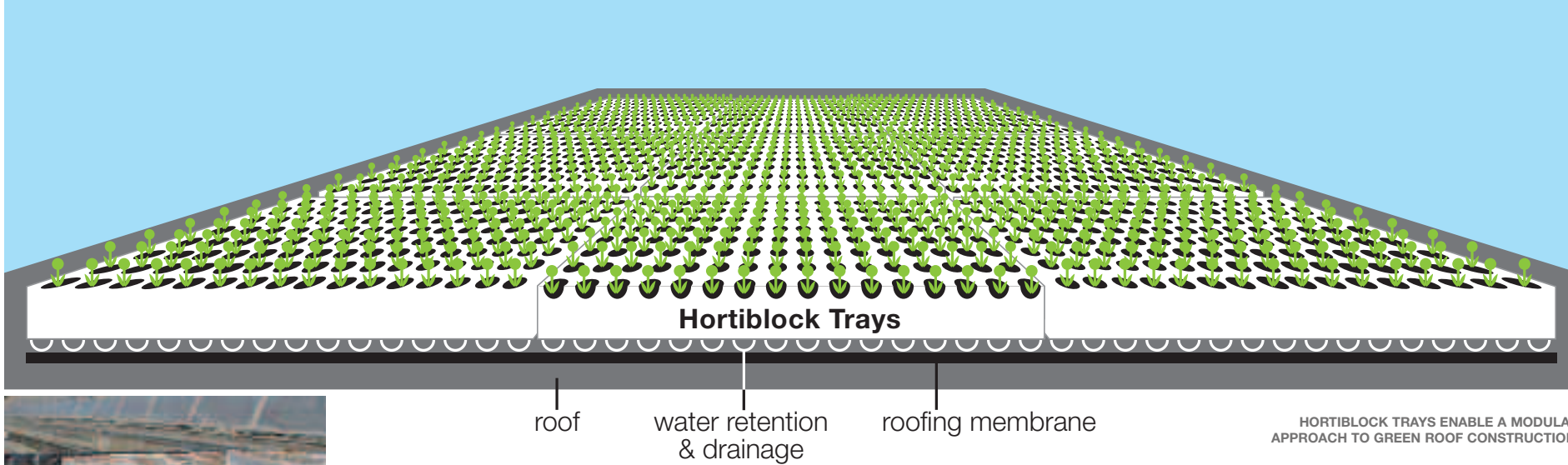
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## The energy advantage

# Green roof technology with Hortiblock<sup>®</sup> trays

## **Beaver Plastics**



## Why Hortiblock

Constructing a green roof with Hortiblock trays is efficient and cost-effective. The advantages are clear:

**Living, renewable protection.** A green roof minimizes the damaging effects of ultraviolet radiation, wind, rain and hail. Hortiblock trays are extremely durable and root resistant so they have a long service life.

**Enhanced insulation.** Green roofs reduce heating and cooling costs. For example, Environment Canada found that a typical one-storey building with a grass roof would reduce summer cooling needs by 24%. By providing extra insulation, Hortiblock trays enhance the thermal performance of green roofs.

**Natural run-off control.** During heavy rain events, a green roof with Hortiblock trays will retain water and promote evaporation. High volumes of stormwater run-off will be avoided.

**Healthier green roof.** Significant ventilation and insulation features built into each tray promote improved plant growth. A healthy green roof is a high-performance green roof.

**Flexibility in construction.** Hortiblock trays come in a full range of sizes. Beaver Plastics can also accommodate custom order

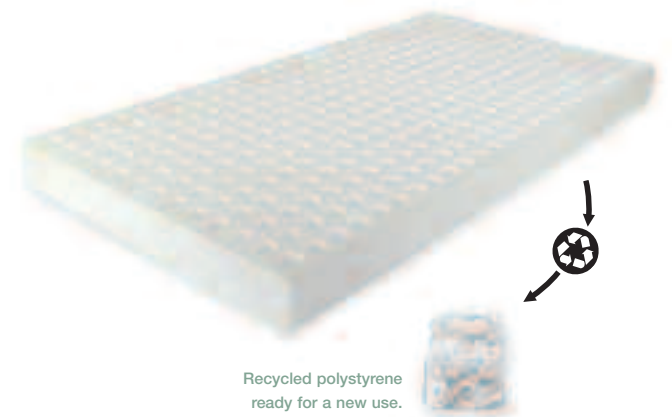
**Easy handling.** Hortiblock trays are light-weight and can be moved around easily.

## Designing a green roof?

For green roofs, a modular approach makes sense. Installation is quick and easy with pre-grown trays. Go modular with Beaver Plastics Hortiblock trays. Talk to us!

## A name you can trust

Since 1967 Beaver Plastics has been producing high-performance, engineered products made from expandable foam plastics. Our products are used in the horticulture, silviculture, construction and packaging industries. Widely recognized as the quality leader in all our markets, Beaver Plastics was the first manufacturer of expanded polystyrene products in North America to achieve ISO9001 certification.



*propagation tray manufacturer*