

Green Roof Benefits

Today, many green roofs are being installed that provide a host of benefits to human civilization. However, green roofs created by Repkin Biosystems, Inc. have additional features that improve performance and function. These features will propel green roofs into the realm of actively protecting human health and more.

1. Thermal regulation of rooftop and surrounding environment

vegetated surfaces are much cooler than bare roofs –this helps lessen the urban heat island effect

2. Storm water management and purification

water movement is slowed down by time required to percolate through green roof growing media, and plants absorb nitrates

3. Carbon dioxide/oxygen exchange

photosynthesis occurs with all plant life and oxygen is produced while carbon is locked away in storage

4. Wildlife refuge and habitat creation

in the sterile places that people inhabit, green roofs can provide shelter and food for the other beings that we live with

5. Insulation of structure

depending on the desired amount of energy savings, clients can choose the amount of insulation they wish to provide for their buildings. Insulation also provides a barrier against noise pollution

6. Extension of roof life

by protecting the roof membrane against UV, thermal and water damage, the life of the roof can easily double or triple – a great opportunity to protect a roofing investment

7. Contaminant entrapment and destruction

Repkin Biosystems, Inc. is working with naturally occurring organisms that have the ability to capture and even degrade potent persistent contaminants that endanger the health of humans and other life forms

8. Food/Fiber/Fuel (3F) creation

productive green roofs are a way for clients to increase their return on investment by creating usable biological materials for market or direct usage in the place of production



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