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# Green Technology

## Green Roofing = Energy Savings



Lawrence Technological University

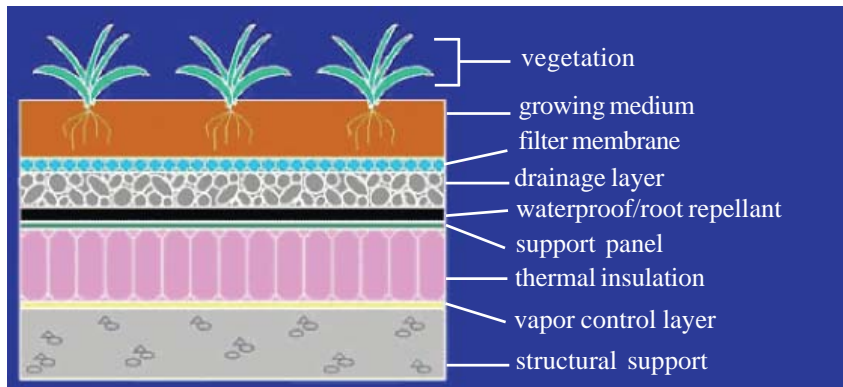
### The Process

The planning, design and installation of a green roof must be thoroughly reviewed to ensure all aspects are considered, including cost, maintenance, service-life and overall expectations.

### Advantages

There are many advantages of the green roofs including reduced environmental impact, increased membrane service life, reduced energy cost and increased employee wellness. Aesthetics can be enhanced, accommodating specific building structures.

Green roofs have a profound impact on our natural environment and economy, maximizing performance of a roof system. Green roofs can reduce heating and cooling loads on a building, remove storm water runoff because they are able to retain moisture, and have positive impact on the environment. These roof systems can increase longevity with UV protection.



Principle Green Roof Technology Components

## Considerations in Choosing a GREEN Roof

1. Is the structure capable of supporting increased weight?
2. Cost will vary from approximately two to three times the cost of conventional roofing. (Depending on type of Green Roof designed)
3. Type(s) of vegetation
4. Will roofs be accessible?

## Green Roof Features

- A horizontal area of a building covered with vegetation and soil, or other media over a weatherproofing membrane.
- A roof that incorporates "green" technology such as photovoltaic panels.



*Spectrum Health Healing Garden*

## LEED Technology Certification

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ encourages and accelerates global adoption of sustainable green building and development practices through the creation and implementation of universally understood and accepted tools and performance criteria.



White Reflective Coating  
Green Roofing

### Experience and Expertise

The design and installation of green roofs are considerably more critical than a typical roof area since they will be buried below overburden. Experience and expertise are required to ensure a functional and long-lasting system. "Attention to detail" is key for all flashings and transitions to ensure long-term watertight integrity.

### The Outcome

A roof system that is not only functional, but provides environmental benefits, and also reduces energy costs. A long-term environmentally friendly solution to meet the needs of the building structure. ■



*Pre-vegetated mat roof covering being installed*



*LaSalle Bank World Headquarters*

### BENEFITS

- Control of storm water
- Increased service life of membrane
- Reduced life-cycle costs
- Improved air quality (environment)
- Aesthetics/employee wellness

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