



CARLISLE'S

# GREENGRID® G3

ROOF GARDEN SYSTEMS

BEAUTIFUL • EFFICIENT • SMART



**CARLISLE**  
Carlisle SynTec

## Carlisle's GreenGrid G3 Roof Garden System

Carlisle's GreenGrid G3 Roof Garden System offers distinct advantages over more complex systems with its simplicity in design, pre-vegetated modules and modular features.

With the introduction of its GreenGrid Roof Garden System, Carlisle has given contractors and owners a premium, easy-to-install roof garden solution.



### Carlisle's GreenGrid Advantages

GreenGrid Roof Garden Systems are an easy way to create a stunning vegetated rooftop with a minimum of worry. The new GreenGrid modules feature a very thin edge that is easily camouflaged by vegetation while maintaining their modular features that allow for easy installation and removal.

### Stormwater Management

GreenGrid Roof Garden Systems help alleviate stormwater runoff through retention and detention of precipitation. This benefit can cut costs associated with required municipal on-site stormwater retention.

### Lowered Heating & Cooling Costs

Roof Gardens are proven to lower the costs of heating and cooling your building. During the summer, plants in the GreenGrid modules transpire water and become a "sponge" for heat energy. For this reason, the temperature at the membrane and insulation level can be as much as 10°F below the ambient air temperature.

### Reduce Urban Heat Island Effect

As a result of decreased plant life and the increased use of concrete and pavement, downtown urban areas can be six to eight degrees Fahrenheit warmer than their surroundings – a phenomenon known as the urban heat island effect. Installing a Carlisle GreenGrid Roof Garden can contribute to reduction of urban heat islands and moderation of city temperatures.

### Air Quality

GreenGrid Roof Garden systems help to purify the air by converting CO2 into oxygen, which can help to reduce greenhouse gases.

### Extends Roof Life

GreenGrid Roof Garden trays can protect roof membranes from ultraviolet radiation, extreme temperature fluctuations and puncture or other physical damage. Minimization of such exposure can improve the long-term performance of the roofing system.

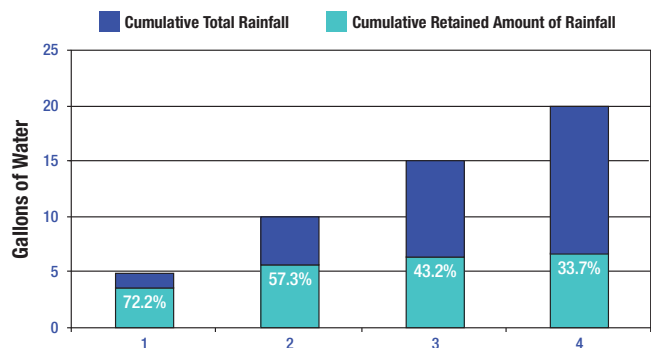
### Added Aesthetic Value

GreenGrid Roof Garden Systems provide urban environments with visually pleasing vistas and rooftop gardens. In urban environments, roof gardens also add value by converting space into areas usable for recreation by building occupants. In such locations, the scarcity of real estate makes the addition of a roof garden for such recreation a competitive alternative.

### Maintenance

Minimal maintenance is required for a GreenGrid Roof Garden Systems. They should be irrigated two to three times per week for the first three weeks to establish the root system. After that, maintain green roof as needed, which will include occasional weeding and irrigating during extended periods of drought.

**Cumulative Water Retention in a Four-Inch GreenGrid Unit During a Simulated Two-Hour Rain Storm**



Storm Event in Inches of Rainfall where 1 inch = 5 Gallons  
("Storm Events" occurred in 15 min applications per event)



## Benefits

- Single-source responsibility – roofing contractors can install both the waterproofing and GreenGrid in one installation
- No planting on the roof – trays are pre-planted and pre-grown before arriving on the job site, including root barrier, growth media and plants
- Easy to handle and fast to install
- Trays are easily moved for modifications or roof repair
- Building owners receive single-source warranty coverage

## Features

### Standard GreenGrid

**Tray depth:** Four inches

**Weight:** Four-inch tray weighs 21-25 psf wet

**Tray sizes:** 18" x 24" (3 sq ft)

**Vegetation:** Plant selections are regional and typically include multiple sedum varieties. Accent plants available upon request.



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