



CARLISLE'S

# GREENGRID® G4

ROOF GARDEN SYSTEMS

BEAUTIFUL • EFFICIENT • SMART



**CARLISLE**  
SYNTEC SYSTEMS

## Carlisle's GreenGrid G4 Roof Garden System

Carlisle's GreenGrid G4 Roof Garden System offers distinct advantages over more complex systems with its simplicity in design, pre-vegetated modules and removable 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 hidden 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 CO<sub>2</sub> into oxygen, which can help to reduce greenhouse gases.

### Extends Roof Life

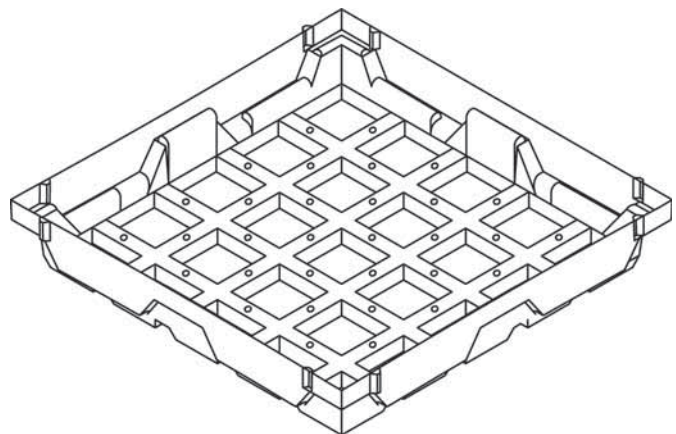
GreenGrid Roof Garden modules can protect roof membranes from ultraviolet radiation, extreme temperature fluctuations and puncture or other physical damage. Minimization of such exposure can improve the long-term performance of the roofing system.

### 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

Maintaining your GreenGrid G4 Roof Garden system will help you maximize the benefits associated with a vegetated roof. Maintenance levels will be dependent upon the design of your GreenGrid Roof Garden. Since your GreenGrid Roof Garden is a living system, a specific maintenance program needs to be adopted and performed on a regular basis. Consult Carlisle for a specific maintenance plan for your design.





## Benefits

- Single-source responsibility – roofing contractors can install both the waterproofing and GreenGrid in one installation
- No planting on the roof – modules are pre-vegetated prior to arriving on the jobsite.
- Easy to handle and fast to install
- Modules are easily moved for modifications or roof repair
- Building owners receive single-source warranty coverage

## Features

- Module size:** 24" x 24" (4 sq ft)  
(61cm x 61 cm) (3721 sq cm)
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- Module depth:** 4.25 in (10.8 cm)
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- Drain hole size:** .25 in (6.35 mm)
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- Tray wall thickness:** 0.19 in (4.75 mm)
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- Depth of water reserve:** 0.75 inch (1.91 cm)
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- Saturated Weight:** 26 – 30 psf
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- Maximum weight per tray:** 120 pounds
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- Tray Material:** Black 100% pre-consumer recycled HDPE with UV inhibitors and stabilizers
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- Filter fabric type:** Spunbonded polypropylene geotextile
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- Growth Media:** Proprietary engineered blend of organic and inorganic components blended to satisfy FLL guidelines
- 
- Vegetation:** Standard plant mixes are regional and typically include multiple species of sedum



800-479-6832 • P.O. Box 7000 • Carlisle, PA 17013 • Fax: 717-245-7053 • [www.carlisesyntec.com](http://www.carlisesyntec.com)

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