

# Green Roof: Layered System



## DESCRIPTION:

At Weston Solutions, Inc. (Weston), we understand that no two green roof projects are alike—and that our GreenGrid® modular system, while ideal for many applications, isn't always the best fit. That's why we've historically offered layered, built-in-place systems to select clients whose projects required a different approach. Now, we're proud to officially add our Layered System to our portfolio, making it available to all customers.

This customizable solution allows for flexible component depths, shapes, slopes, and plant selections tailored to your design and performance goals. Whether your specifications call for a layered system from the start or evolve during consultation, you can count on GreenGrid® to guide you candidly and deliver the right solution—modular or layered—without compromise.



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We're here to support your vision with honesty, expertise, and a full suite of green roof options.

Our Layered System is a cost-effective built-up vegetative roof system consisting of a root barrier (optional based on plant selection), and combined drainage and filter layer (with an optional water retention layer). This product can fit any design or layout because layers can be easily cut on-site to fit curves and angles.

System weights will be driven by media depth, which is typically going to be selected based on the desired plant palette, stormwater retention requirements, and/or the local climate. Layered systems are typically constructed in standard green roof depth increments of 4", 6", 8", or "Deep Intensive" of greater than 8" for turfgrass, small shrubs, or even trees.



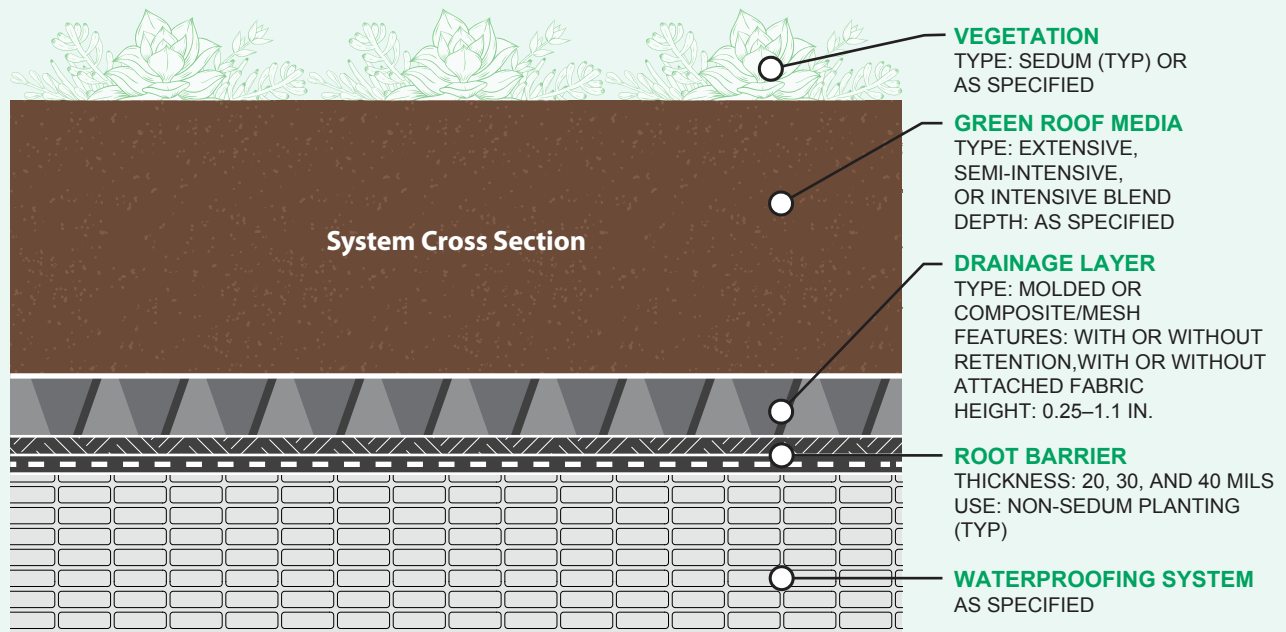
## SYSTEM COMPONENTS:

1. Root Barrier (typically not required for sedum plantings).
  - Thickness: 20, 30, and 40 mils.
2. Combined Filter and Drainage Layer (**features for optional water retention layer are in bold**) – Water allows from the green roof or other adjacent roof areas to flow beneath the green roof system across the waterproofing to roof drains.
  - Options: **Molded** and Composite/Woven material.
  - Thickness: 0.25", 0.4", **0.5", 1.0", and 1.1"**
  - Water retention: 0.06 gal/sf (0.5" thick), 0.11 gal/sf (1" thick), 0.24 gal/sf (1.1" thick).
3. High-Capacity Needled Mineral Wool Water Retention Layer – Allows for enhanced stormwater management without adding additional green roof media and minimizes resulting system weight.
  - Thickness: 1"
  - Water retention: 0.64 gal/sf.
4. Growing Media: FLL-Compliant Extensive, Semi-Intensive, and Intensive Blends.
5. Plants: Sedum plugs, sedum cuttings, sedum mats/tiles, herbaceous perennials, and ornamental grasses (multiple plug/pot sizes).

## LEED INFORMATION: Included with the specific materials chosen by purchaser

System Weight: Determined by depth, type, and source of media, water retention of drainage layer, additional high-capacity water storage layer, and plant types selected. The table below includes typical ranges without additional water storage and sedum plantings.

System Depth	Dry Weight	Saturated Weight
4" Media Depth	15–20 lbs/sf	25–30 lbs/sf
6" Media Depth	22–30 lbs/sf	38–45 lbs/sf
8" Media Depth	30–40 lbs/sf	50–60 lbs/sf



[www.GreenGridRoofs.com](http://www.GreenGridRoofs.com)



GreenGrid is a registered trademark of Weston Solutions, Inc. (WESTON).  
The GreenGrid® system is a proprietary technology of WESTON in the United States.  
U.S. patents 7,997,027; 8,122,682

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