

# Why GreenGrid Is THE Best Choice For Your Project



GreenGrid® Green Roofs	Other Modular and Hybrid Green Roof Systems	Traditional “Built-In-Place” (BIP) Green Roof Systems
<p><b>Installation is Fast and Easy!</b></p> <ul style="list-style-type: none"> <li>Assembled and pre-grown at regional nurseries, ships on pallets for easy hoisting and handling</li> <li>Delivered fully vegetated (80-95% plant coverage) for “instant green”, no establishment maintenance</li> <li>Rigid sidewalls with handles and alignment notches make handling and installation easier</li> <li>No pesky edge treatment required. Media is fully contained in the modules unless cut.</li> <li>No root barrier necessary with most waterproofing systems</li> <li>New 1'x2' module makes for smoother pixelated layouts without cutting trays</li> <li>Install 2,500-5,000 sf per day per crew</li> <li>Hoist direct from flatbed trailers (most locations) to reduce crane costs</li> <li>Install guide provides “how to”, no product certification required</li> <li>Inventory and 3-6 week lead time options available in certain locations</li> <li>Successfully install nearly year-round!</li> <li>In-field adjustments easy</li> </ul>	<p><b>The features vary by system:</b></p> <ul style="list-style-type: none"> <li>Hybrid trays may include extra components for assembly and establishment on the roof</li> <li>Edging and/or removable parts used for containment slows installation, and adds cost</li> <li>Media may not be fully contained and requires edge treatment</li> <li>Additional root barriers add cost</li> <li>Many require certified installers</li> <li>Product-specific shipping containers and equipment can add cost</li> <li>Clips or other connections required for assembly can slow installation</li> <li>Systems offer one size tray and depth. Small trays take longer to install. Large trays have design limitations.</li> <li>Quick lead time or ordering may not be an option</li> <li>Typically only ship in growing season</li> <li>In-field adjustments can be difficult depending on system</li> </ul>	<p><b>Built-in-place systems require that all materials be mobilized to the roof and assembled on site.</b></p> <ul style="list-style-type: none"> <li>Complicated logistics to coordinate delivery, hoisting, installation, and interim protection of multiple components</li> <li>Longer schedule and higher crane costs likely</li> <li>Subject to delays from inclement weather and small windows of “ideal” installation conditions</li> <li>Subject to wind scouring during and post-installation</li> <li>Requires significant effort and time (up to 2 years) to reach mature plant coverage on the roof</li> <li>Requires significant maintenance and temporary irrigation to ensure rooting even if using mats</li> <li>In-field adjustments costly</li> </ul>
<p><b>Flexibility to Adjust and Repair</b></p> <ul style="list-style-type: none"> <li>Fully modular, can be easily moved, removed or adjusted after installation</li> <li>Install over existing membranes, and reuse the green roof when reroofing eventually occurs</li> <li>Easily adapt to changing roof conditions due to tenant requirements</li> </ul>	<p><b>Features vary by system:</b></p> <ul style="list-style-type: none"> <li>Hybrid systems that achieve depth using shallow trays that are overlain with deeper media become similar to BIP systems (difficult to change)</li> <li>Difficult to access underlying waterproofing system (dig).</li> <li>New waterproofing may be required</li> <li>Adjustment damages plants, reuse difficult or impossible</li> </ul>	<p><b>Features vary by system:</b></p> <ul style="list-style-type: none"> <li>Many layers that must maintain integrity makes post-installation change or waterproofing access technically challenging</li> <li>Difficult to access the underlying waterproofing system (digging).</li> <li>New waterproofing usually required</li> <li>Adjustment damages plants, reuse difficult or impossible</li> </ul>

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 U.S. patents 7,900,397 / 7,997,027 / 8,555,545  
 Canadian patents 2,416,457 / 2,416,463 / 2,418,262

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<b>Proven Performance</b> <ul style="list-style-type: none"> <li>• More than 5 million square feet installed nationwide!</li> <li>• Ability to customize modules, soils and plants to meet design and performance requirements</li> <li>• Single source for all components</li> <li>• Selected for some of the highest profile projects across the country – ask us for details!</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Verify that vendors have the necessary qualifications and experience</li> <li>• Many are single solution driven</li> <li>• Component sources may vary or be rebranded components from other manufacturers</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Multi-component approach may allow for combination of incompatible layers, reducing short or long term system performance</li> <li>• May perform well for contoured surfaces</li> </ul>
<b>Durable and High Quality</b> <ul style="list-style-type: none"> <li>• Made in the USA! 20-year module warranty</li> <li>• Planted locally (100- 500 miles from most projects)</li> <li>• Strong, thick, lightweight, 100% post-industrial recycled HDPE (187-225 mil thickness)</li> <li>• Manufactured with UV inhibitors and stabilizers</li> <li>• Seamless zero-edge design. The trays won't be visible as the plants grow</li> <li>• Multiple tray sizes and depths, custom options</li> <li>• Total system (wrap-around) warranty available for overburden removal when combined with Mule-Hide or Carlisle waterproofing systems</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Trays made from thin stock will bend and slow down hoisting and installation</li> <li>• Long-distance sourcing and high freight charges common</li> <li>• Systems with a loose soil layer or open sidewalls require edge treatment</li> <li>• Plant health can deteriorate if growers do not ween plants from nursery care prior to delivery, causing stress or quality issues</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Some “systems” are not single source manufactured and may involve multiple warranties – can vary by installer</li> <li>• Multiple long-distance sources of material common</li> <li>• Durability directly tied to robustness (or not) of post-installation maintenance</li> </ul>
<b>Sustainable Design Features</b> <ul style="list-style-type: none"> <li>• Realistic, defensible data to support LEED®</li> <li>• Module design features water storage reservoirs to retain precipitation and control storm water runoff without waterlogging roots</li> <li>• Module design allows for unrestricted flow of water beneath the trays</li> <li>• 100% recycled plastic and locally sourced soil media and plants in most regions</li> <li>• Compatible with both drip and overhead spray irrigation for best water-use choice where needed</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Product applicability with LEED® may be overstated</li> <li>• Water retention capacity varies based on tray design (note the location of drainage features in tray details)</li> <li>• Recycled content varies</li> <li>• Irrigation compatibility varies</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Long-distance sourcing may negatively impact LEED contribution and increase total freight costs</li> <li>• Recycled content varies</li> <li>• Water retention layer presence and performance varies</li> </ul>
<b>GreenGrid Team is Responsive and Knowledgeable</b> <ul style="list-style-type: none"> <li>• Responsive technical consultation and product support specialists</li> <li>• A national practice with centralized technical support and thousands of projects</li> <li>• Team leaders have more than 15 years of relevant experience in the green roof industry</li> <li>• Honest technical support – never a force fit</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Green roof industry experience varies widely</li> <li>• Regional staff may have limited experience</li> <li>• Commission driven sales</li> <li>• Be aware of force fitting a product into a configuration that is not appropriate.</li> </ul>	<b>Features vary by system</b> <ul style="list-style-type: none"> <li>• Green roof industry experience varies widely</li> <li>• Regional staff may have limited experience</li> <li>• Commission driven sales</li> <li>• Many rely on waterproofing supply chain or distributors</li> </ul>