OMNI
ECOSYSTEMS
LIVING INFRASTRUCTURE REDEFINED
AT OMNI ECOSYSTEMS, WE CREATE SOLUTIONS

Omni Ecosystems invents new living systems, soils and soil amendments;

Omni Ecosystems manufactures and supplies its inventions, systems and products;

Omni Workshop consults on design for customized living infrastructure solutions;

Omni Ecosystems installs Omni products and constructs living infrastructure;

Omni Ecosystems maintains ecosystems for the long-term;

The Roof Crop farms food within living infrastructure systems.
### The Comprehensive Green Roof - An Omni Invention

The comprehensive green roof is a new design category of green roof that combines the best qualities of intensive and extensive green roofs:

- High plant diversity
- Shallow, lightweight soil
- Significant stormwater retention
- Significant moderation of roof temperatures

<table>
<thead>
<tr>
<th>GR Type</th>
<th>Comprehensive</th>
<th>Extensive</th>
<th>Semi-Intensive</th>
<th>Intensive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, maximum</td>
<td>10-34 psf</td>
<td>10-35 psf</td>
<td>35-50 psf</td>
<td>&gt;50 psf</td>
</tr>
<tr>
<td>Depth</td>
<td>3-8”</td>
<td>2-6”</td>
<td>6-8”</td>
<td>&gt;8”</td>
</tr>
<tr>
<td>Cost</td>
<td>Low</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Plant options</td>
<td>High</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Food production</td>
<td>Yes</td>
<td>No</td>
<td>Limited</td>
<td>Yes</td>
</tr>
<tr>
<td>Irrigation</td>
<td>Yes</td>
<td>Limited</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Installation</td>
<td>Tray &amp; Built-in-Place</td>
<td>Tray &amp; Built-in-Place</td>
<td>Tray &amp; Built-in-Place</td>
<td>Built-in-Place</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Low</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Stormwater</td>
<td>Medium-High</td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>retention</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>High</td>
<td>Low to Medium</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>moderation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Compared to typical green roof growing media, Omni’s Infinity Media™ is a better replication of actual soil. While other growing media mimic the physical and chemical properties of soil, they neglect the biological properties. Infinity Media™ combines all three to create a rich soil ecosystem.

In soil 3 INCHES DEEP, weighing 15 pounds per square foot saturated, we grow:

- **LAWNS**
- **MEADOWS**
- **ACCENTS**
- **EDIBLES**
5 INCHES
FULL SHADE
ACCENTS
5+ INCHES
TREES
WHEAT

8 INCHES
TREES
VEGETABLES
ON-GOING ADAPTABLE

Omni Green Roof Farms™ utilize principles from ecological design, and function as natural ecosystems. The Omni Meadow Mix™ provides perennial cover crops that are complementary to annual food crops. Omni Green Roof Farms™ can be farmed without disruption to the roots of cover crops or threat of soil erosion.
RETURN ON INVESTMENT

The Omni Green Roof™ saves energy, prolongs the life of a roof membrane, and meets municipal stormwater and green area requirements, improving the green roof’s return on investment. Electing to farm the Omni Green Roof™ with The Roof Crop™ further increases value. The Roof Crop™ can either provide free maintenance in exchange for the produce that it harvests from your roof, or can work as your professional farming service, delivering your rooftop’s cleaned, packed produce to your door. In either role, The Roof Crop™ provides a green roof that is sustainably engaged in urban agriculture and is maintenance free for the building owner. The Omni Green Roof™ and The Roof Crop™ provide the best return on investment across the triple bottom line.
Groundbreaking Development

Omni Terrain™ brings the advantages of the Omni Infinity™ growing media to brownfields, providing site remediation, stormwater retention, and greening. Using an engineered barrier to cap contamination and applying Omni Infinity™ growing media to vegetate the new surface, the Omni Terrain™ yields an affordable and green solution for brownfield remediation.

Quick & easy installation
Decreases installation lead-time and duration and reduces remediation cost

Green space
 Increases biodiversity, open space, and natural beauty

Abundantly & readily-available materials
Reduces wait time for fresh soil

No hauling
Eliminates expensive fees for contaminated soil trucking and disposal

Budget friendly
Brings competitive, reliable, and consistent pricing to a field with nebulous and variable costs

Clean and reliably-tested growing media
Eliminates delays due to locating clean soil and ends unsustainable harvesting of native soils

Large water storage capacity
Increases on-site stormwater management and decreases costs for alternative stormwater management tools
Proven plant palette has a track record of successful green facade growth.

Aluminum framework is lightweight, attractive, and easy to assemble.

Substantial plant growth immediately after installation.

Growing media is ultra-lightweight, weighing 50% less than other green wall media.

Growing media replicates healthy ecosystems of true soils, improves long-term plant growth and reduces on-going maintenance.

- Minimal water use through high-efficiency irrigation and strategic irrigation controls.
- Custom sizes available.
- Custom finishes available.
- Made in the USA, over 95% of the materials are manufactured in or within 250 miles of Chicago.
- Thoughtful design minimizes manufacturing waste in fabrication.
OMNI TAPESTRY™
LIVING WALL

- Irrigation pipe
- Drainage pipe
- Continuous rooting space filled with growing media

• 80 pounds per panel (maximum saturated weight)
• Z-Cleats allow for easy hanging
• Concealed irrigation and drainage systems
• Minimizes shading from neighboring plants
• Maximizes plants’ rooting environment
• Panels are watertight as they are made from a single piece of plastic
• 100% recycled plastic panel
• Made in the USA
• Diverse plant options available

Can be used outdoors as annual planters

Learn more on the Exterior Panels page at omniecosystems.com
Omni elevates the triple bottom line

**ENVIRONMENTAL SOCIAL FINANCIAL**

When providing turnkey solutions, the Omni team creates projects from invention and supply, to design, installation, and maintenance. Omni is also engaged on an a la carte basis, providing only materials, consulting, design, or maintenance. The turnkey service provides the advantage of single-source stewardship when Omni can be engaged early in a project, while a la carte service ensures that any project has access to Omni’s innovative living infrastructure solutions.

**OMNI WORKSHOP**

Omni Workshop is a landscape architecture technical consulting division that studies and employs methods in resiliency. We focus on connecting nature and people, adding meaning to how landscapes function and thrive, and improving the way we live. By working hand-in-hand with the research & development team behind Omni’s soils and Omni’s construction management and maintenance teams, Omni Workshop’s design visions are realized on budget with increased accountability.
OMNI MILESTONES

2006

First green roof application of Omni Infinity™ growing media

2009

Company founded; Molly Meyer and Michael Repkin begin collaboration on commercial development of Omni Green Roof™

2012

Omni Green Roof™ goes to market; Omni Tapestry™ invented

2013

The Roof Crop, LLC founded by Molly Meyer and Tracy Boychuk; “Beyond Extensive and Intensive: Defining the Comprehensive Green Roof” published in annual Cities Alive Conference Proceedings hosted by Green Roofs for Healthy Cities

2014

Omni wins Green Roof Award of Excellence from Green Roofs for Healthy Cities for Omni’s Kimball Ave (Chicago) residential project; Molly Meyer is awarded the Urban Land Institute Chicago Young Visionary Award, is named one of ENR Midwest Top 20 under 40, and wins Curbed’s national Young Gun award

2015

First Omni Terrain™ application; first Roof Crop farm sells rooftop-grown produce; Omni Ecosystems featured in Conscious Company Magazine and in Landscape Architecture Magazine

2016

Omni Workshop™ founded by Molly Meyer & Michael Skowlund; Mayor Rahm Emanuel visits Omni, honoring Chicago students who took part in the One Summer Chicago program; Omni Tapestry™ awarded a utility patent; The Roof Crop harvests its first wheat field on Omni’s rooftop prairie located on Studio Gang Architects’ offices; Omni completes projects coast-to-coast, from Boston to San Francisco