



Natural Function
Natural Beauty

FULLY-GROWN INVISIBLE
MODULAR GREEN ROOF SYSTEM
"The Hybrid System"

SIMPLE

EFFECTIVE

ATTRACTIVE

Natural Function

LiveRoof is the only modular green roof system that uses patent pending Soil Elevator™ and Moisture Portal™ technology to unite the entire soil continuum. This allows for the natural sharing of water, nutrients and beneficial organisms across the entire rooftop strata.

It also minimizes hot, wet, and dry zones, and avoids compartmentalizing the growing medium into an unnatural “grid” as is the case with other modular systems.

By not compartmentalizing the soil into “grids” **LiveRoof functions like nature intended**, and the difference in performance is real.

Natural Function LiveRoof “soil elevation” design and moisture portals unite soil across the entire green roof strata for sharing, not compartmentalization, of water, nutrients, and beneficial organisms. This allows the plants to be more healthy, and hot/dry and wet spots are avoided.



Soil to Soil Contact Means Shared:

Moisture Nutrients Beneficial Organisms



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Hybrid Technology

LiveRoof was designed to “package” the benefits of all green roof systems (and leave out the drawbacks). The table on the following page summarizes how the LiveRoof brand green roof combines the convenience of a modular system (quick install and easy roof access) with the natural function via soil integration of a plant-in-place system. Finally, LiveRoof brings the instant effect of a vegetative mat but with a much broader array of plant options and no soil interface problems.

No Photo Degradation

To completely prevent photo-degradation, LiveRoof is subterranean. The module edges are obscured, even during the dormant season.

No Air Gaps Between Modules

Uninterrupted continuum of soil eliminates air gaps for optimal R value, cooling value, and storm water absorption.

Proper Roof-Top Drainage

LiveRoof keeps the roof dry with drain channels that disperse water at 7.0 gallons per minute per lineal foot.

Satisfied Owners

Call your Local Licensed Grower today for a free demonstration, local LiveRoof On-Site Tour, and listing of Satisfied LiveRoof Owners.

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Subterranean Module

Gives a meadow-like look
with no “grid” lines.



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Natural Beauty

The aesthetic advantages of LiveRoof are significant, and during spring, summer, fall or winter, **LiveRoof looks like a beautiful meadow.** Other modular systems may look like a man-made “grid” especially during the dormant season.



Weather exposed conventional modular systems may look like this during the dormant season.



Even during winter dormancy, LiveRoof is naturally beautiful.



NOTE: The success and appearance of any green roof system is dependent upon numerous factors such as the designer's specification, user's adherence to specified maintenance, specific variations in plant type, planting density, and adherence to proper installation.

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LiveRoof® Brand is an Instant Green Roof

Each LiveRoof module arrives to the job site with full grown plants inside the container and is simply set in place on the rooftop. The unique patent-pending soil elevators are then removed for a seamless fit and soil to soil contact. No need to start with a brown roof and farm it for years, hoping and waiting for it to become a green roof.



Natural Beauty

LiveRoof's monolithic soil continuum and unique plant mixtures bring 4-season aesthetics. Soil and plants obscure modules all 12 months of the year.

Proven Soil

The industry's best engineered soil, expected to last indefinitely.

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LiveRoof[®] BRAND Brings a Multitude of Advantages

	LiveRoof System	Other Systems
Backed by an Extensive Team of Leading Horticulturists Delivered 95% prevegetated	Yes	No
Evaporative Cooling Reduces indoor temperature 6 to 8 degrees during warm/hot weather and can reduce air-conditioning costs 25 to 50%	Optimal Day of Installation	Variable
Installed By Certified Installers	Yes	Variable
Instantly Mature/Instantly Beautiful Delivered 95% prevegetated	Always	Variable
LEED Points Enhances LEED ratings in many categories	Maximum	Variable
Maintenance Saves years of intensive and costly rooftop maintenance	Extremely Low Maintenance & Predictable Costs	Relatively High Maintenance & Unpredictable Costs
Meets Customer Expectation Well-established plants and roots mean an instantly functional green roof	Yes	No
Overall Value Saves time and money traditionally required to develop and maintain a green roof grown from plugs, seeds or cuttings	High Value & Predictable Cost	Variable Costs
Resistance to Wind Erosion	Optimal Day of Installation	Minimal Until Established
Successful Track Record	Yes	Variable
Weed Prevention Established planting is the best means for preventing weed encroachment	High Level of Weed Prevention	Variable Level of Weed Prevention
Total System Cost Over first five years	Predictable No Surprises	Variable

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LiveRoof® System Benefits

Why Use LiveRoof for Your Green Roof?

LiveRoof is an Instant Green Roof

Each LiveRoof module arrives at the job site with full-grown plants and is simply set in place on the rooftop. The unique patent-pending soil elevators are then removed for a seamless fit. No need to start with a brown roof and farm it for years, hoping and waiting for it to become a green roof.

LiveRoof Saves Money

Prevegetated modules discourage weeds and save the time and money traditionally required to develop and maintain a green roof grown from plugs, seeds or cuttings. Other systems may require three or more years for establishment and intensive care during this time period. Well-established plants and roots mean an instantly green, successful, fully functioning green roof. Maintenance cost estimates for traditionally planted green roofs vary from \$1.00 to \$2.00 per square foot annually. LiveRoof can be maintained for as little as \$0.05 to \$0.20 per square foot per year (depending on local labor rates). Being fully grown, LiveRoof plants act as a living mulch to help prevent weed establishment.

Designed and Developed by Experts

LiveRoof® was developed by horticulturists in a collaborative effort with experts in the fields of green roofing, roofing, logistics, architecture, manufacturing, construction, and ergonomics. The LiveRoof system, from its effective drain slots to its unique patent-pending Soil Elevators™ and Moisture Portals™, is specifically designed to grow plants on a rooftop environment.

No Ugly Seams

LiveRoof modules fit snugly together and are sealed tightly by soil and plants through the use of patent-pending Soil Elevators™ and overlapping edge design. This makes the modules of the system invisible for a seamless instantly green rooftop offered by no other modular system.

Patent pending LiveRoof Moisture Portals™ allow for moisture, soil and root cohesiveness. Other modular systems show unattractive plastic or metal seams. Such systems may eventually mature (the plants) to the point where seams are obscured during the summer months, but only to reappear during dormancy periods (fall, winter, and early spring) every year.

LiveRoof Eliminates the Risks Associated with Brown Roofs

Traditional green roof methods of planting 2 ¼ inch wide plugs on 9 inch centers equates to 95% brown roof (exposed soil) and only 5% green roof (plant material). These traditional brown roof plantings are prone to wind scour, water erosion, and weed encroachment. A brown roof also absorbs more heat and diminishes the benefits of a green roof.



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LiveRoof® Hybrid Green Roof Systems

LiveRoof Standard System

Soil: Appx. 4 1/4" deep.

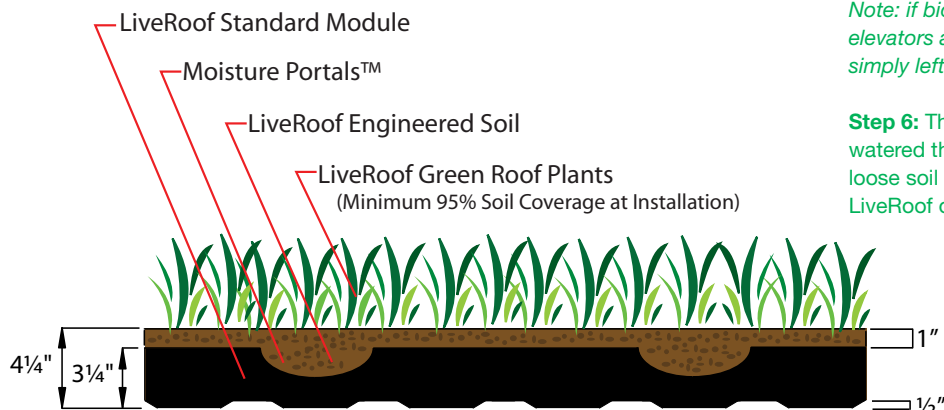
Module Size: 1' x 2' x 3 1/4"

Weight: Appx. 27-29 lbs/sf saturated and vegetated.

Merits: Maximizes storm water management, integrates perfectly with new construction and often times existing buildings.

Plants: Succulent ground covers, water conserving accent plants, and hardy spring blooming bulbs.

Also available **LiveRoof Lite**, ideal for retrofit projects at appx. 2 1/4" deep with saturated weight of 15-17lbs/sf. And, **LiveRoof Deep**, when a more garden-like effect is desired. 6" deep with saturated weight of 40-50 lbs/sf.



Step 1: The Licensed Grower inserts the LiveRoof Soil Elevator™ into LiveRoof module.

Step 2: LiveRoof module is filled to the top of Soil Elevator with LiveRoof engineered soil. Soil is settled by vibration and mechanically screeded off.

Step 3: LiveRoof Plants are grown to maturity approximately 1 inch above the LiveRoof module. In the LiveRoof Lite System plants are approximately 3/4" above the module and in the LiveRoof Deep System they are approximately 2 3/4" above the module.

Step 4: Installer sets LiveRoof modules tightly in place on the roof from parapet to parapet or within LiveRoof RoofEdge, depending upon design.

Step 5: LiveRoof Soil Elevators™ are removed for a beautiful, seamless instantly mature green roof.

Note: if biodegradable soil elevators are used, they are simply left in place.

Step 6: The entire system is watered thoroughly to settle any loose soil and to get your LiveRoof off to a great start.



STEP 1



STEP 2



STEP 3



STEP 4



STEP 5



STEP 6

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Experienced



The LiveRoof Licensed Grower Network is composed of the horticultural industry's leading growers, collectively bringing you more than 500 years of horticultural experience and expertise.

Call your local grower to discuss your specific green roof project and to receive our 64 page informative catalog. Some topics include:

Specifications

Architecture & Engineering

LiveRoof Benefits

LEED Interface

Answers to Common Questions

Warranty Information

LiveRoof[®] BRAND Supplier Network

Please call your local grower for a hands-on demonstration, catalog, pricing and specific plant recommendations. Buy Direct from LiveRoof, LLC in Michigan, Indiana, Illinois and southern Wisconsin.

Visit www.LiveRoof.com for a current listing of Growers, Designers and Installers.

1. **N.A.T.S. Nursery Ltd.**
British Columbia
Suzanne Charest
(604) 530-9300
liveroof@natsnursery.com
2. **GreenFeathers Living Roof Plants and Systems**
Oregon
Bob Adams, (503) 357-2904
liveroof@greenfeathersroof.com
3. **Native Sons & Florasource**
California
Jennifer Scarano,
(805) 481-5996
liveroof@nativeson.com
Tom Hawkins, (949) 498-1131
Mike Connelly, (831) 422-3175
liveroof@florasourceltd.com
4. **Hawaiian Sunshine Nursery**
Brian Leong (866) 714-7837
pgs@hawaiiinursery.com
5. **Summit Valley Turf Farms**
Montana
Charissa Wagner,
(406) 287-2268
liveroofmontana@yahoo.com
6. **J&J Nursery**
Utah
Jim Webster, (801) 949-7291
jwalandscapelandscape@gmail.com
7. **Eagle Lake Turf Farms Ltd.**
Alberta
Jan Bjerreskov, (403) 295-0477
Eric Heuver, (403) 934-6813
jan.liveroof@eaglelaketurf.com
8. **Colorado Green Roofs & Walls**
Gene Pielin or Carrie Waldron
(970) 212-0620
genep@gulleygreenhouse.com
9. **Bachmans Inc.**
MN and parts of ND, SD & WI
Doug Danielsen
(800) 525-6641
liveroof@bachmans.com
10. **Roof Top Sedums, LLC**
IA & parts of IL, KS, NE, & MO
Teresa Nelson, (563) 676-9775
Roxanne Nagel, (563) 505-7032
info@rooftopsedums.com
11. **Texas Green Roofs**
(903) 882-7541
x 215 Ed Borgers
x 213 Randy Jackson
emborger@earthlink.net
12. **Green Gate Farms**
Parts of MO & IL
Larry Becker, (636) 798-2202
larrybecker@greengatefarms.com
13. **LiveRoof[®] LLC**
MI & parts of IL, IN & WI
Julie Ardner, John Scholten, or
Jennifer Smith (800) 875-1392
sales@liveroof.com
14. **Southeast Green Roofs, LLC**
TN, KY & Southern IN
Owen Slaughter, (615) 290-3400
Andy Sudbrock, (615) 799-8719
owen@southeastgreenroofs.com
15. **LiveRoof Ontario, Inc.**
Kees Govers
(519) 245-4039
kees@liveroofontario.ca
16. **Corso's Perennials**
OH and parts of PA & WV
Dan Cartell, (216) 408-9611
Gus Corso,
(888) 816-8608 x219
liveroof@corsosperennials.com
17. **Riverbend Nursery**
DC, NC, VA & parts of MD, WV
Jim Snyder or
Kelly Connoley-Phillips,
(800) 638-3362
Scott Titanish or
Janie Schepker
liveroof@riverbendnursery.com
18. **NY Green Roof, LLC**
Central and Western NY
Liz Sanders, (585) 703-7211
hydroguys@gmail.com
19. **BiotechtureFI, div. of Reflections of Nature Landscape Nursery**
Northern FL
Angie Loper, (904) 415-3893
James Loper, (904) 225-9915
rnlrnsrery@comcast.net
20. **Coastal Landscape & Maintenance**
Southern FL
Susan Cone (954)924-4014 x12
(561) 640-5930
clmsue@bellsouth.net
21. **Climax Urban Greening, Inc.**
Quebec
Denis Faucher, (418) 930-9148
liveroof@videotron.ca
22. **Prides Corner Farms Wholesale Nursery**
CT, ME, NH, VT, MA, RI & Southeast NY
Jim Costello or Rich Palmer
(800) 437-5168
Ray DeFeo
(860) 234-6723
liveroof@pridescorner.com
23. **Creek Hill Nursery**
DE, MD, PA & parts of NJ
Paul Cook, (717) 723-0855
Ron Strasko, (717) 556-0000
paul@creekhillnursery.com

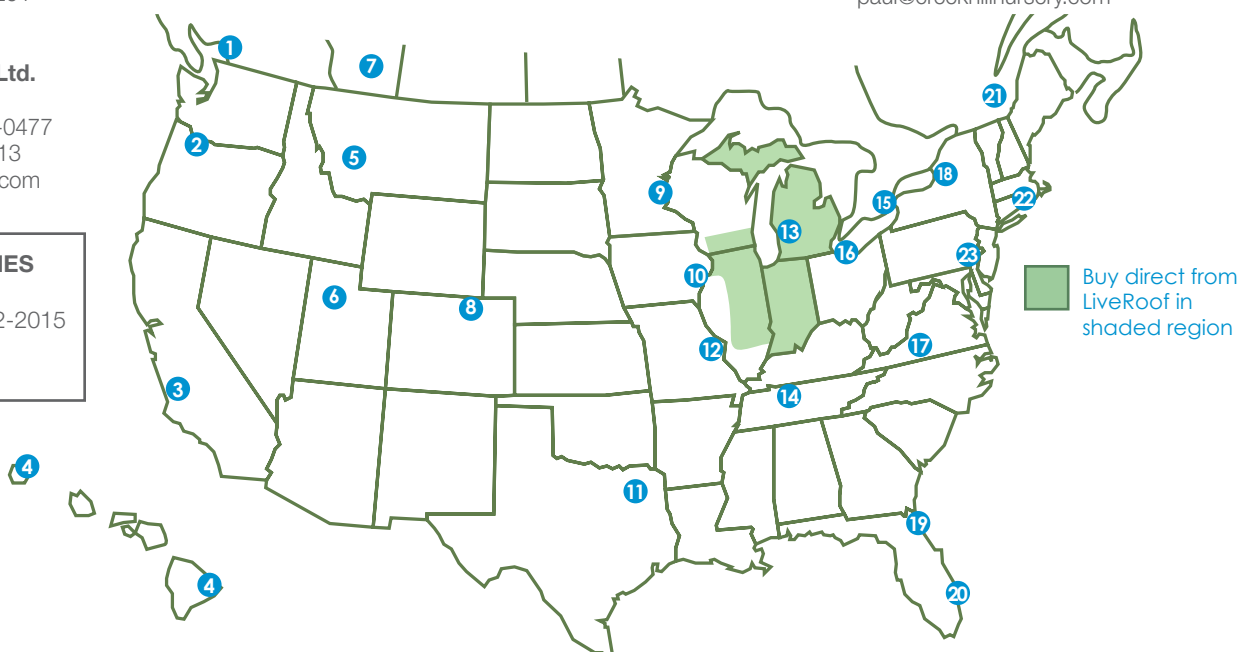
INTERNATIONAL INQUIRIES

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LiveRoof, LLC
A Subsidiary of Hortech, Inc.

See Inside Back Cover
For a Supplier Nearest You,
and to arrange for a
Personal Consultation.

See LiveRoof.com
For Additional Information

Printed On Rapidly Renewable
Eucalyptus Paper with Soy Based Inks

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